Geotechnical and Geoenvironmental Report

Site: Merthyr Incline

Prepared For: Merthyr Tydfil County Borough Council

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Executive Summary

Site Location and Proposed Development	*Merthyr Tydfil County Borough Council (the Client) is proposing the development of a carriageway with car parking areas on land off Primrose Hill, Merthyr Tydfl, CF47 0SR.* *The development site is irregular in shape and centres on an approximate National Grid Reference of 305650, 205680, occupying a plan area of approximately 0.85 Hectares.*
Site History	*In 1875-1876, the northern part of the site was located along a railway running from north to south. The southern part of the site is located in an old Limekiln, with the railway running north to south of this area. In 1900, the Railway was identified as Downlais Railway. In 1957, the Downlais Railway was dismantled. A pathway runs east to west, at the south of the southern part of the site. In 2024, a pathway runs north to south of the northern part of the site.*
Geology	*The site is shown to be underlain by the South Wales Lower Coal Measures Formation rocks which are Carboniferous in age. Superficial deposits are recorded as Till, Devensian deposits and made ground is also anticipated on site.*
Radon	*No radon protective measures are required for new developments on the investigation site.*
Coal Mining Risk Assessment	*The southern area of the site is considered to be at a low risk from shallow mining given the location of the coal seams and dip of the geology. It also falls to the west of the area of probable unrecorded shallow mine workings.* *The northern area is considered to be at risk from legacy mining features. The site falls in an area of probable unrecorded shallow workings and there are mine entries in proximity to the site which may have provided access to shallow workings. The Garw coal seam and associated ironstone veins have been calculated to be at shallow depth (less than 30m) beneath the site and there is the possibility that these were worked at some time in the past. It is therefore recommended that an intrusive investigation is undertaken to establish deeper ground conditions and geology.*
Ground Conditions	

Summary of Typical Ground Conditions		
Southern Area	*0.00 - 1.80/3.00*	***MADE GROUND**. Grass over loose to medium dense dark brown mottled black and orange silty very gravelly **SAND** with low cobble content. Gravel is concrete, brick, mudstone, sandstone, fragments of glass, metal, ceramic.*
	1.80 – 2.00	***MADE GROUND**. Medium dense grey mottled brown and white silty gravelly **SAND**. Gravel is mudstone, brick, chalk, glass fragments.*
	0.00 – 0.40/0.90	***MADE GROUND**. Grass over firm to stiff greyish brown silty slightly sandy gravelly **CLAY** with high cobble and boulder content. Gravel is mudstone, sandstone.*
	0.40/0.90 – 1.20/3.00	*Stiff orangish brown/grey mottled grey gravelly **CLAY** with medium cobble content.*
Northern Area	*0.00/0.15 – 0.60/1.20*	***MADE GROUND**. Loose to medium dense reddish brown slightly clayey very gravelly **SAND**. Gravel is brick, concrete, asphalt, mudstone **[or] MADE GROUND**. Grass over dark brown silty slightly sandy gravelly **CLAY**. Gravel is mudstone, concrete, brick, fragments of plastic and glass **[or] MADE GROUND**. Grass over firm to stiff sandy gravelly **CLAY**. Gravel is mudstone, concrete, sandstone.*
	0.00/1.20 – 0.90/2.30	***MADE GROUND**. Grass over loose reddish brown slightly clayey gravelly fine to coarse **SAND** with low cobble content. Gravel is concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.*
	0.60/0.90 – 1.40/1.60	***MADE GROUND.** Firm to stiff brown sandy gravelly **CLAY** with low cobble and boulder content. Gravel concrete, brick, mudstone, sandstone, fragments of metal and glass **[or] MADE GROUND**. Firm to stiff grey/brown sandy gravelly **CLAY**. Gravel is mudstone, concrete, brick.*
	1.40 – 2.80	***MADE GROUND**. Medium dense to dense yellowish brown gravelly fine to coarse **SAND** with medium cobble content. Gravel is brick, concrete.*

Contamination of Concern	*All substances tested for were found to be present at concentrations below their respective human health threshold level.* *The sulphate exceedance located at SA03 at a depth of 0.40m, SA04 at 0.50m, SA05 at 0.50m and TP03 at 0.10m is not considered a risk to human health. It poses a risk to buried concrete only.*

Recommended Further Works	*Due to the presence of probable unrecorded possible shallow mining across the northern area of the site an intrusive investigation will be required. The objectives are as follows.* • *Confirm the underlying bedrock geology and underlying stratigraphy.* • *Confirm or refute the presence of shallow mining across the site.* *To confirm or refute the depth of workings it is recommended that five rotary boreholes are undertaken along the line of the proposed road. The boreholes should be sunk to a minimum depth of 30m into bedrock.* *The drilling works will need to be undertaken under a Coal Authority permit.*

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Drawing 01 Proposed Site Layout

SECTION 1 Introduction and Proposed Development

1.1 Introduction

Merthyr Tydfil County Borough Council (the Client) is proposing the development of a carriageway with car parking areas on land off Primrose Hill, Merthyr Tydfil CF47 0SR. A draft version of the layout plan is presented below in **Figure 1.1**.

Figure 1.1 Draft Layout Plan

TFW Group Limited have been commissioned by the Client to undertake a geoenvironmental assessment and geotechnical investigation of the site.

The main objectives of the geoenvironmental assessment programme are:

- Investigate the potential human health and environmental liabilities at the site associated with any contamination.
- Provide a summary of the human health and environmental conditions at the site, together with any necessary further intrusive works and / or remediation works to render the site fit for its intended use.

The main objectives of the geotechnical site investigation are:

- Investigated the type, strength and bearing characteristics of the shallow superficial and underlying solid geology.
- Investigate the risk, if any, from historical shallow underground mining features.
- Provide engineering foundation and floor slab recommendations for the proposed development.
- Provide infiltration rates and stormwater drainage viability.
- Provide recommendations regarding any other geotechnical aspects pertaining to the development.

In order to achieve the above objectives, TFW Group Limited carried out an assessment programme including a review of existing data, followed by a field investigation to collect geotechnical and geoenvironmental data from selected locations.

1.2 Limitations and Exceptions of Investigation

The Client has requested that a Geoenvironmental Site Assessment (GSA) and Geotechnical Investigation (GI) be performed to enable the outlined main objectives.

The GSA and GI were conducted, and this report has been prepared for the sole internal reliance of the Client and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of TFW Group Limited. If an unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill. The report represents the findings and opinions of experienced geoenvironmental and geotechnical consultants. TFW Group Limited does not provide legal advice and the advice of lawyers may be required.

The subsurface geological profiles, any contamination and other plots are generalised by necessity and have been based on the information found at the locations of the exploratory holes and depths sampled and tested.

The investigation was limited by areas of dense vegetation.

1.3 Quality Assurance

The quality and environmental aspects of the assessment comply with TFW Group Limited business management system which is UKAS Accredited to ISO 9001:2015 and ISO 14001:2015 standards.

SECTION 2 Review of Existing Data

2.1 Physical Setting and Current Site Use

The development site is irregular in shape and locates at land off Primrose Hill, Merthyr Tydfil, CF47 0SR. The site centres on an approximate National Grid Reference of 305650, 205680, occupying a plan area of approximately 0.85 Hectares.

The site is divided into the northern part, located in a green field with a pathway running north to south and the southern part of the site located in a green field.

Site boundaries are defined by residential developments to the north, east and west of the northern part of the site with Primrose Hill to the south of this area. The southern part of the site is defined by housing developments to the north and south east, green field to the south west and a pathway to the to the east of this area.

The River Taff (Avon Taff) is located 450m to the south west of the southern part of the site with the direction of the flow to the south.

The site elevation is approximately 236m AOD in the north steeply sloping down to the south west with an elevation of 201m AOD.

The site location can be seen on **Figure 2.1** and the exploratory hole location on **Drawing 01**.

Figure 2.1 Site Location

2.2 Site History

Historical maps of the site have been obtained in an Envirocheck Report, provided by Landmark Information Group. The history plans are supplied in **Annex A** of this report, and the most relevant editions are summarised in **Table 2.1**. Distances are approximate, and any changes in-between map editions may not be recorded.

Table 2.1 Historical Development from Map Information

Map Edition & Scale	Key Features on Site	Key Features off Site
1875 1:528 **1876** 1:2,500	The northern part of the site is located along a railway running from north to south. The railway is present in a cutting and identified as the 'Incline'. The southern part of the site is located in the area of an old Limekiln. The railway crosses the northern end of this area in an east to west orientation and also appears to be in a cutting.	Residential housing and the Twyn-yr-Odyn School are located immediately to the west of the northern part of the site, occupying the northern section of the historical map. Twyn-yr-Odyn road runs immediately to the north of the northern section and another road runs immediately to the south of this northern section. A building is located 50 meters further south. A bifurcation of the railway is present to the east of the southern part of the site. A small building possibly related to the Limekiln is located at 5m to the east of the southern part of the site. Residential housing is present 100m to the south west of the southern part of the site.
1900 1:2,500	The Railway is now identified as Downlais Railway.	Residential housing has been developed 80m to the north of the southern part of the site.
1919 1:2,500	No significant changes.	More housing developments are identified to the west and south west of the northern part of the site.
1957 1:1,250 **1969-1977** 1:1,250	The Downlais Railway has been dismantled. The topography of the site areas has been modified and the cuttings appear to have been infilled. A pathway runs east to west, in the south of the southern part of the site.	Housing developments are now located immediately to the east of the site, occupying the entire western part of the historical map and more housing developments are identified at approximately 20m to the north of the southern part of the site.
1981-1989 1:1,250 **1982-1989** 1:10,000	No significant changes.	Tips 'Disued' are shown to be present in the area arounf the southern part of the site. These are anticiapted ot be former spoil tips. The historical map shows the River Taff (Avon Taff) at 450m to the south west of the southern part of the site with the direction of the flow to the south.
1999 1:10,000	No significant changes.	No significant changes.
2006 1:10,000	No significant changes.	No significant changes.
2024 1:10,000	A pathway runs north to south of the northern part of the site.	No significant changes.

2.3 Geological Setting

2.3.1 Geology

The 1:50,000 and 1:10,000 scale British Geological Maps of the area (Sheet 231 & SO00NE) were consulted for geology underlying the site. The site is shown to be underlain by the South Wales Lower Coal Measures Formation rocks which are Carboniferous in age. Superficial deposits are recorded as Till, Devensian deposits and made ground is also anticipated on site. Detailed stratigraphical information is provided in **Table 2.2**.

Table 2.2 Detailed Stratigraphical Information

Period	Formation
Modern	**Made Ground** - Area where the pre-existing land surface is modified by artificial or reworked deposits.
Quaternary	**Till, Devensian** - Till is unsorted and unstratified drift, generally overconsolidated, deposited directly by and underneath a glacier without subsequent reworking by water from the glacier. It consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape.
Carboniferous	**South Wales Lower Coal Measures Formation** - Coal Bearing Mudstone/Siltstone with Seatearth and minor Sandstone.

The dip is recorded as being 2-3° to the south southwest in the area of the site.

The geology map shows the conjectured outcrop of the Gellideg Coal Seam crossing the northernmost end of the northern site area. It trends in a north to south orientation. Given the dip of the bedrock it will underlie the area to the east of the outcrop location.

The generalised vertical section shows the next seam to be the Garw and the Rosser Ironstone Veins are shown below this seam.

2.3.2 Radon

The Envirocheck Report (**Annex A**) details that no radon protective measures are required for new developments on the investigation site.

2.3.3 Mining

Relevant BGS mineral sites recorded within 250m of the site in the Envirocheck Report datasheets (**Annex A**) are summarised in **Table 2.3**.

Table 2.3 BGS Recorded Mineral Sites

Site Name	Distance / Direction	Type	Commodity
Trebeddau Level	140 NE	Underground	Coal - Deep
Pen-Yr-Heol Ironstone Level	219 NE	Underground	Iron Ore - Ironstone

The Coal Authority Report information is explained in **SECTION 3** of this report. The Coal Authority Consultants Coal Mining Report is appended in (**Annex B**).

2.3.4 Natural Hazards

The Envirocheck details the following hazard potentials for the site.

Collapsible Ground:	Very Low
Compressible Ground:	No Hazard to Very Low
Ground Dissolution:	No Hazard
Landslide:	Very Low
Running Sand:	Very Low
Shrinking & Swelling Clays:	Very Low

The recommended site investigation will add further information on the potential natural hazards.

2.4 Environmental Setting

The following sections have been compiled using the Landmark Information Group Envirocheck datasheet and maps which can be found in **Annex A**.

2.4.1 Hydrogeology

Superficial deposits beneath the site have an aquifer designation of secondary aquifer – Undifferentiated.

The bedrock deposits beneath the site have an aquifer designation of secondary aquifer – A.

Deeper groundwater flow within the underlying bedrock will be controlled by the strata dip and any fractures or bedding planes within the rock units.

The hydraulic gradient will be at its steepest during periods of heavy rainfall and aquifer recharge.

The site does not locate within a groundwater source protection zone.

The nearest groundwater abstraction point is located 840m to the south west, operated by TBS (South Wales) Ltd.

2.4.2 Hydrology

The nearest surface water feature is located offsite 114m to the north east and comprises a small stream or drain.

The topography of the site slopes down towards the south west. Surface water is likely to drain in this direction.

2.4.3 Flooding

The site has the potential for groundwater flooding of property situated below ground level.

The site has limited potential for groundwater flooding to occur.

The site is not at risk from extreme flooding from rivers or sea.

2.4.4 Waste

There are no historical landfills, licensed waste management facilities or waste transfer sites within 250m of the site.

2.4.5 Pollution

There is one entry on the Substantiated Pollution Incident Register.

2.4.6 Sensitive Land Use

The site is not located within a sensitive land use area.

An area of ancient woodland locates 448m east of the site and a Site of Special Scientific Interest (SSSI) is located 760m south west. The SSSI is identified as Cwm Glo A Glyndyrys and is designated based on its biological characteristics.

2.4.7 Estimated Urban Soil Chemistry

The BGS has published estimated urban soil chemistry concentrations locally to the site for a number of common contaminants, i.e. arsenic, cadmium, chromium, lead and nickel. All of the given determinands have anticipated concentrations that are below the recognised trigger levels for a residential with plant uptake scenario.

2.4.8 Industrial Land Use

Relevant contemporary trade directory entries recorded within a 250m radius of the site are summarised in **Table 2.4**.

Table 2.4 Relevant Contemporary Trade Summary

Company	Distance/ Direction	Classification	Status
Ruby Woodcrafts	15 NE	Wood Products, Except Furniture - Manufacturers	Active
Planet Wales Three Good Friends	24 NE	Greeting Card Publishers & Wholesalers	Inactive
Twyn Launderette	41 SW	Dry Cleaners	Inactive
Valley Pest Control	54 SW	Pest & Vermin Control	Active
Conservatory Shine	120 N	Commercial Cleaning Services	Inactive
Scotts Autotrade	168 W	Car Dealers	Inactive
S A S	195 SW	Car Breakers & Dismantlers	Inactive
Full Cycle Recycle	217 NE	Reclaiming - Waste Products	Inactive
Russell Roberts Auto Repairs	224 SW	Garage Services	Active
Jocks Joinery	224 W	Joinery Manufacturers	Inactive
Green Engineering Services Ltd	231 E	Engineers - General	Active
Kaykel Communications	238 SW	Telecommunications Equipment & Systems	Inactive

2.4.9 Infilled Land

Potentially infilled land features within 250m of the site are summarised in **Table 2.5**.

Table 2.5 Potentially Infilled Land

Type	Feature	Distance/Direction
Potentially Infilled Land (Non-Water)	Unknown Filled Ground (Pit, quarry etc)	103 NE
	Unknown Filled Ground (Pit, quarry etc)	118 SE
	Unknown Filled Ground (Pit, quarry etc)	148 NW
	Unknown Filled Ground (Pit, quarry etc)	149 E

Potentially Infilled Land (Water)	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	121 S
	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	153 S
	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	200 SW

SECTION 3 Coal Mining Risk Assessment

3.1 Geotechnical Risk

3.1.1 Underground Mining

Based upon geological map data, the stratigraphical sequence within 30m of the ground surface of the site is illustrated in **Figure 3.1**.

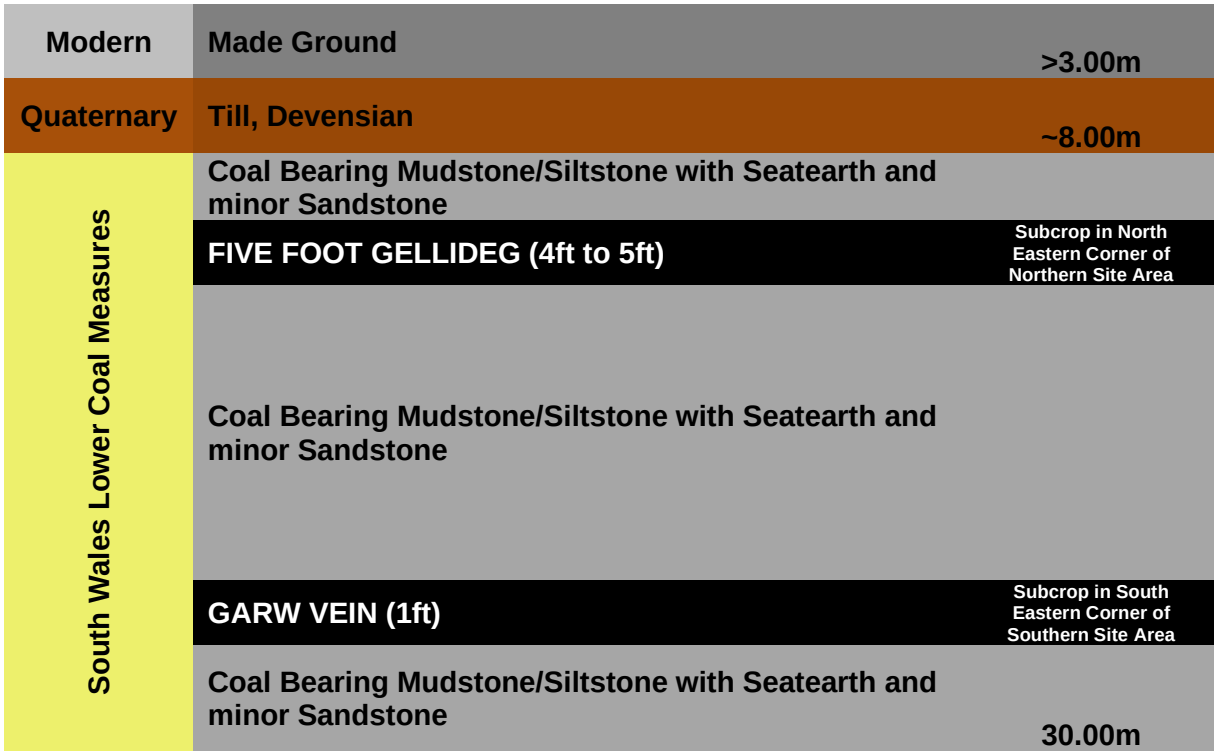

Figure 3.1 Geology and Strata Base below Ground Level

The Coal Authority Report states that:

- There is no past underground mining recorded.
- There are probable unrecorded shallow workings.
- There are no spine roadways recorded at shallow depth.
- Two outcrops are recorded crossing or within 50m of the site. The Five Foot Gellideg Coal Seam is located in the northern corner of the northern site area and given the dip will only underlie a very small portion of the site to the east of the outcrop position. The Garw Vein Coal Seam is seen to cross the south eastern corner of the southern site area. Given the dip it will underlie a small portion of the southern site area to the east of the outcrop location and will underlie the northern site area. Using trigonometry, and accounting for the change in topography, it is anticipated that the Garw will be at a depth of 8.50m below rockhead on the south western boundary of the northern area, and 26.50m on the north eastern boundary. The outcrop details are summarised in **Table 3.1** and can be seen in **Figure 3.2.**

Table 3.1 Mine Entries

Seam Name	Mineral	Seam Workable	Distance to Outcrop	Direction to Outcrop	Bearing of Outcrop
FIVE FOOT GELLIDEG	Coal	Yes	Within	N/A	176
GARW VEIN	Coal	Yes	Within	N/A	192

- There are no faults, fissures or breaklines recorded.
- There are five opencast mines within 500m. Three locate to the north of the site with the other two located to the south east.
- There are two site investigations or remediated sites within 50m. The Site Investigations details are summarised in **Table 3.2** and can be seen in **Figure 3.2**. The Coal Authority were approached to determine if the site investigation data was available however Terra Firma were informed that the information was held by a third party and is therefore not available.

Table 3.2 Site Investigations

Distance to site investigation (m)	Direction
3.5	Noth-West
28.8	South-East

The Coal Authority report can be found in **Annex B**.

3.1.2 Mine Entries

The Coal Authority drawing indicates that there is one adit and one mine shaft within 100m of the site and can be seen in **Figure 3.2.**

Figure 3.2 Proposing Layout Showing Shaft Locations

The mine shaft data from the Coal Authority report as well as information from the online viewer has been summarised in **Table 3.3**.

Table 3.1 Mine Entries

Entry Type	Reference Number & Name	Distance / Direction	Grid Reference	Treatment Description	Coal Authority Departure	Orientation / Assumed Diameter
Adit	305205-043 No.1 Ysgobor Newydd Level	85m SE	305562, 205442	No Details.	8m	77° / 3.0m
Shaft	305205-098 South Wales	50m NW	305643, 205754	After this mine entry was located during a site investigation in 2008 by Integrale Geotechnique the shaft was drilled and found to be backfilled. A concrete plug 0.5m thick was found at a depth of 5m within the shaft. The area around the shaft was temporarily backfilled with the shaft being 1m below ground level. There were recommendations that the shaft be drilled, grouted and capped before development of the site but the Coal Authority has received no information to confirm these works have been undertaken. The Coal Authority online view notes that this shaft is 18m deep and it is recorded as treated.	0m	N/A / 2.5m

3.1.3 Conclusion

The southern area of the site is considered to be at a low risk from shallow mining given the location of the coal seams and dip of the geology. It also falls to the west of the area of probable unrecorded shallow mine workings.

The northern area is considered to be at risk from legacy mining features. The site falls in an area of probable unrecorded shallow workings and there are mine entries in proximity to the site which may have provided access to shallow workings. The Garw coal seam and associated ironstone veins have been calculated to be at shallow depth (less than 30m) beneath the site and there is the possibility that these were worked at some time in the past. It is therefore recommended that an intrusive investigation is undertaken to establish deeper ground conditions and geology.

3.2 Geoenvironmental Risk

3.2.1 Mine Gas Risk Assessment

This preliminary assessment has been completed in accordance with guidance published in CL:AIRE, 2021, Good practice for risk assessment for coal mine gas emissions. In the first instance, the risk assessment process requires the screening out of ‘potentially at risk sites’ utilising the decision support tool for mine gas risk assessment, provided in Figure 13.1 - CLAIRE 2021. A summary of the decision tool and site outcome is presented in **Table 3.1**.

Table 3.2 Decision Support Tool Summary – Site Specific

Step	Qualifier Question	Outcome	Comment
1	Is the site within a Coal Authority defined Coal Mining Reporting Area?	Yes	Go to step 2
2	Are all these statements true? • Mine entries >50m from site boundary • Workings >150m depth • No faults or other potential pathways connecting surface to deeper unflooded workings. • Outside area of past or probable shallow workings on Coal Authority Viewer	No	Go to step 3

3	Are all these statements true? • Workings between 30m and 150m but permanently flooded or covered by 10m+ of low permeable superficial deposits. • Mine entries > 50m from site boundary. • Low permeability superficial deposits of sufficient thickness - <$1x10^{-4}$ m/s hydraulic conductivity.	No	Go to step 4
4	Are any of these statements true? • Mine entries on site or <20m from site boundary. • Workings below site <30m depth and unflooded or variable water level. • Faults or other pathways connecting surface to deeper unflooded workings. • Within area of past or probable shallow workings on Coal Authority Viewer.	Yes	High Risk Zone

It has been determined that the site falls in a high risk zone for mine gas based on the CL:AIRE decision support tool. However, it is also considered that as the proposed development is a road which is open to the atmosphere, with no sealed, enclosed or inhabited structures. It is therefore considered that the risk to site end users can be downgraded to negligible.

SECTION 4 Preliminary Human Health and Environmental Risk Assessment

4.1 General

The preliminary human health and environmental risk assessment is a qualitative evaluation of unacceptable risks to human health or the environment from potential 'contaminated land', based on reviewed information in preceding sections of this report.

For 'contaminated land' to exist as defined in Part 2A of the Environmental Protection Act (EPA) 1990, a Pollutant Linkage needs to be identified. Pollutant linkages are defined by having a valid 'source – pathway – receptor' as established in the preliminary conceptual site model.

For our definitions of pollution linkage and how we define risk please refer to **Annex C** which includes our classifications of consequence and probability, and risk assessment matrix.

4.2 Potential Sources of Contamination

Potential or known sources of contamination associated the sites current and historical land use are summarised in **Table 4.1**.

Table 4.1 Contamination Sources

ID	Source	Contaminant
S1	Made Ground	Metals, Semi-Metals and Non-Metals, Speciated Polycyclic Aromatic Hydrocarbons (PAH), Petroleum Hydrocarbons, Asbestos
S2	Industrial Land Use: Railway, Limekiln	Speciated PAH, Petroleum Hydrocarbons, Asbestos

No other significant potential on-site or off-site sources of contamination have been identified during the desk study.

4.2.1 Omitted Potential Sources

Two potential sources of contamination highlighted in the desk study have been excluded from further risk assessment. These are detailed in **Table 4.2**.

Table 4.2 Omitted Contamination Sources

Source	Reasoning
Mine Gas from Mining Legacy Features	The preliminary mine gas risk assessment has identified that the site is at risk from mine gas. However, the proposed development is a road with no sealed, enclosed or inhabitable spaces. Site end users are only likely to be passing through the area while in or on a vehicle or on foot. Given that the structure is open to air and connected to the atmosphere any mine gas emissions would be rendered insignificant by desperation and dilution.
Ground Gas from Made Ground and Infilled Land	Made ground is anticipated on the site and seven occurrences of infilled land are located within influencing distance of the site. Similarly to the mine gas, there are no proposed sealed, enclosed or inhabitable spaces. Site end users are only likely to be passing through the area while in or on a vehicle or on foot. Given that the structure is open to air and connected to the atmosphere any ground gas emissions would be rendered insignificant by dispersion and dilution.

4.3 Potential Pollution Pathways

Potential contaminant pathways associated with a residential with home grown produce land use are as follows.

P1 – Direct soil and dust ingestion
P2 – Consumption of home grown produce
P3 – Dermal contact
P4 – Inhalation of dust and vapours
P5 – Vertical migration of leachates (unsaturated zone)
P6 – Horizontal and vertical migration of contaminants (saturated zone)
P7 – Artificial contaminant pathway (borehole, pile, excavation etc)
P8 – Surface run-off
P9 – Plant uptake
P10 – Horizontal and vertical migration of ground gasses and vapours
P11 – Direct contact with construction materials
P12 – Inhalation of asbestos fibres

4.4 Potential Receptors

There are human and hydrological receptors to any contamination that may be present on site. Potential receptors include.

R1 – Construction and maintenance workers
R2 – Future site users (motorists, pedestrians)
R3 – Passers-by or neighbouring site users
R4 – Groundwater (aquifer)
R5 – Surface waters (river/lake)
R6 – Area of public open space
R7 – Construction materials (concrete/potable water pipes)

4.5 Preliminary Conceptual Site Model

The preliminary conceptual site model establishes potential pollutant linkages between contaminants (source), pathways and receptors, realised during the preparation of the desk study report. Where a potential pollutant linkage is identified an assessment of risk is subsequently undertaken. The preliminary conceptual site model is tabulated in **Table 4.3**.

Outcomes of the preliminary conceptual site model are used as a basis for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the wider site.

Findings of the site investigation can in turn be used to develop and refine the conceptual site model.

Table 4.3 Preliminary Conceptual Site Model

Source	Pathway	Receptor	Preliminary Risk Assessment		
			Consequence	Probability	Risk
Human Health					
Contaminated Soils S1, S2	Direct soil and dust ingestion P1 Dermal contact P3 Inhalation of dust and vapours P4	Construction and maintenance workers R1	**Medium**	**Likely**	**Medium Risk -** COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required. Suitably designed site investigation recommended
		Passers-by or neighbouring site users R3	**Medium**	**Unlikely**	**Near Zero Risk** - Dust suppression measures if required.
		Future site users (motorists and pedestrians) R2	**Medium**	**Low Likelihood**	**Low Risk -** Suitably designed site investigation recommended
Impacted Groundwaters S1, S2	Horizontal and vertical migration of contaminants (saturated zone) P6 Dermal contact P3	Construction and maintenance workers R1	**Medium**	**Low Likelihood**	**Low Risk -** The historic maps have shown the site to be occupied from the year 1875 and the risk of contamination being present in soils and impacting groundwaters is therefore possible but not considered to be significant. Chemical analysis of the soils should be undertaken to identify contamination.
Contaminated Soils S1, S2	Direct Contact P11	Construction materials (water pipes) R7	**Mild**	**Low Likelihood**	**Low Risk:** An appropriate water supply pipe material should be chosen after the potable water supplier has completed an assessment in accordance with UK Water Industry Research guidance; Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites, UKWIR Report Ref: 10/WM/03/21.
Aggressive ground conditions - Sulphates S1, S2		Construction materials (concrete) R7	**Mild**	**Low Likelihood**	**Low Risk -** The site has been occupied and possible contamination may be anticipated on site. Chemical analysis of the soils should be undertaken to identify any contamination.

Aquatic Environment					
Contaminated Soils S1, S2	Vertical migration of leachates (unsaturated zone) P5	Groundwater (aquifer) R4 Surface waters (river/lake) R5	**Mild**	**Low Likelihood**	**Low Risk -** The site has been occupied and possible contamination may be anticipated on site however it is not anticipated to be significant. Chemical analysis of the soils should be undertaken to identify contamination.
	Surface run-off P8	Surface waters (river/lake) R5			
	Horizontal and vertical migration of contaminants (saturated zone) P6				

SECTION 5 Field Investigation

5.1 Site Works

A geotechnical and geoenvironmental site investigation comprising 11 Trial Pits including 5 Soakaway tests and 7 TRL-CBR tests was undertaken between the 29th and 30th of May.

The fieldwork was supervised by TFW Group Limited, who logged the exploratory holes to the requirements of BS 5930:2015+A1:2020. The proposed locations of the exploratory holes were determined by Terra Firma in general accordance with BS 10175:2011+A2:2017 in order to assess the findings of the preliminary conceptual site model.

Trial pits referenced TP01 to TP06 and SA01 to SA05, were formed using a JCB 3CX excavator with a 0.60m wide bucket. Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

On completion, all trial pits were backfilled with materials arisings compacted in layers using the excavator bucket. The ground surface was left proud to accommodate future settlement of backfilled materials. The trial pit logs are presented in **Annex D**.

Soakaway tests were carried out in trial pits SA01 to SA05 in general accordance with BRE DG 365:2016. The excavation sides were squared using the excavator bucket and dimensions recorded within the test section. The trial pit was partially filled with clean water using a dedicated bowser with a 75mm diameter outlet and the fall in level recorded against time. The results are presented in **Annex E**.

Dynamic Cone Penetrometer (DCP) tests, referenced TRL01 to TRL12, were carried out using a Transport Research Laboratory dynamic cone penetrometer. Probe depths were measured with respect to ground level and the number of blows for the penetration of the probe was recorded. Equivalent CBR values have been calculated and presented with the results in **Annex F**.

Exploratory hole locations are shown on **Drawing 01**.

5.2 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 5.1**.

Table 5.1 Summary of Typical Ground Conditions

Location	Depth (m)			Thickness (m)	Stratum
Southern Area	0.00	-	1.80/3.00	1.80/3.00	**MADE GROUND**. Grass over loose to medium dense dark brown mottled black and orange silty very gravelly **SAND** with low cobble content. Gravel is concrete, brick, mudstone, sandstone, fragments of glass, metal, ceramic.
	1.80	-	2.00	0.20	**MADE GROUND**. Medium dense grey mottled brown and white silty gravelly **SAND**. Gravel is mudstone, brick, chalk, glass fragments.

	0.00	-	0.40/0.90	0.40/0.90	**MADE GROUND**. Grass over firm to stiff greyish brown silty slightly sandy gravelly **CLAY** with high cobble and boulder content. Gravel is mudstone, sandstone.
	0.40/0.90	-	1.20/3.00	0.60/2.60	Stiff orangish brown/grey mottled grey gravelly **CLAY** with medium cobble content.
Northern Area	0.00/0.15	-	0.60/1.20	0.45/1.20	**MADE GROUND**. Loose to medium dense reddish brown slightly clayey very gravelly **SAND**. Gravel is brick, concrete, asphalt, mudstone ***[or]*** **MADE GROUND**. Grass over dark brown silty slightly sandy gravelly **CLAY**. Gravel is mudstone, concrete, brick, fragments of plastic and glass ***[or]*** **MADE GROUND**. Grass over firm to stiff sandy gravelly **CLAY**. Gravel is mudstone, concrete, sandstone.
	0.00/1.20	-	0.90/2.30	0.50/2.30	**MADE GROUND**. Grass over loose reddish brown slightly clayey gravelly fine to coarse **SAND** with low cobble content. Gravel is concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.
	0.60/0.90	-	1.40/1.60	0.50/1.00	**MADE GROUND.** Firm to stiff brown sandy gravelly **CLAY** with low cobble and boulder content. Gravel concrete, brick, mudstone, sandstone, fragments of metal and glass ***[or]*** **MADE GROUND**. Firm to stiff grey/brown sandy gravelly **CLAY**. Gravel is mudstone, concrete, brick.
	1.40	-	2.80	1.40	**MADE GROUND**. Medium dense to dense yellowish brown gravelly fine to coarse **SAND** with medium cobble content. Gravel is brick, concrete.

5.2.1 Miscellaneous Ground Conditions

SA03 from 0.00m to 0.05m: **MADE GROUND**. Grass over soft brown silty gravelly **CLAY**. Gravel is asphalt, concrete, brick.

SA03 from 0.05m to 0.15m: **ASPHALT**.

5.3 Stability

Trial pits TP03, TP04 and TP05 were unstable during excavation.

The remaining trial pits remained stable and vertical during excavation.

5.4 Laboratory Chemical Testing

5.4.1 Sampling Strategy

Soil sampling locations were selected on a targeted basis to investigate suspected sources of contamination or potential contamination migration pathways.

Sample locations, depths and suspected/known contamination source targets are summarised in **Table 5.2**:

Table 5.2 Sample Locations, Depths and Targets

Location	Depth (m)	Contamination Targets
SA01	0.30	S1, S2. MADE GROUND. Silty gravelly SAND.
SA01	1.80	S1, S2. MADE GROUND. Silty gravelly SAND.
SA03	0.40	S1, S2. MADE GROUND. Clayey gravelly SAND.
SA04	0.50	S1, S2. MADE GROUND. Clayey gravelly SAND.
SA05	0.50	S1, S2. MADE GROUND. Silty sandy gravelly CLAY.
TP02	0.50	S1, S2. Gravelly CLAY.
TP03	0.10	S1, S2. MADE GROUND. Clayey gravelly SAND.
TP04	0.30	S1, S2. MADE GROUND. Sandy gravelly CLAY.
TP05	0.20	S1, S2. MADE GROUND. Gravelly SAND.
TP06	1.00	S1, S2. Gravelly CLAY.

5.4.2 Soil Laboratory Analysis

During the site investigation works soil samples were taken and despatched to the accredited laboratories of Eurofins Chemtest for laboratory chemical testing. Soil samples were tested for the determinands listed in **Table 5.3**.

Table 5.3 Soil Laboratory Analysis

Metals & Metalloids	In-Organics	Organics	Others
Arsenic	Cyanide	Phenols	pH (acidity)
Cadmium	Sulphate	Speciated PAH	Asbestos
Chromium III		Petroleum Hydrocarbons	
Chromium VI			
Boron			
Copper			
Lead			
Mercury			
Nickel			
Selenium			
Zinc			

The results are discussed in detail in **SECTION 6** and the laboratory test results certificates may be found in **Annex G**.

5.5 Soil Property Testing

5.5.1 In-situ Permeability Testing

During the site investigation five trial pit soakaway test was undertaken in SA01 to SA05 and carried out in general accordance with BRE DG 365:2016.

Soakaway test results are summarised in **Table 5.4**.

Table 5.4 Summary of Soakaway Results

Trial Pit	Test Number	Depth Range of Test (m)	Infiltration Rate (ms^{-1})
SA01	Test 1 of 3	1.48 – 2.00	First Fill, **$1.63x10^{-03}$m/s**

	Test 2 of 3	1.55 – 2.00	Second Fill, **$5.46x10^{-04}$m/s**
	Test 3 of 3	1.50 – 2.00	Third Fill, **$5.19x10^{-04}$m/s**
SA02	Test 1 of 1	1.05 – 1.50	No infiltration was recorded. **Unable to calculate infiltration rate.**
SA03	Test 1 of 3	1.10 – 1.60	First Fill, **$6.92x10^{-05}$m/s**
	Test 2 of 3	1.12 – 1.60	Second Fill, **$3.99x10^{-05}$m/s**
	Test 3 of 3	1.10 – 1.60	Third Fill, **$2.56x10^{-04}$m/s**
SA04	Test 1 of 1	-	Unable to calculate a soil infiltration rate due to rapid infiltration. **Suggested Soil Infiltration Rate $1.0x10^{-04}$m/s.**
SA05	Test 1 of 1	-	Unable to calculate a soil infiltration rate due to rapid infiltration. **Suggested Soil Infiltration Rate $1.0x10^{-04}$m/s.**

The test results are discussed in **SECTION 8.6** and the calculation sheets may be found in **Annex E**.

5.5.2 In-situ Permeability Testing

In-situ CBR tests were carried out using a TRL probe and are summarised below.

Table 5.5 Summary of DCP Testing

Location	CBR Value	Termination Reason
TRL01	Initially 2.6% increasing to greater than 5% at 0.16m	Full depth achieved
TRL02	Initially 2.2% increasing to greater than 5% at 0.19m	Ended as weight bouncing
TRL03	Initially 4.8% increasing to greater than 5% at 0.13m	Ended as weight bouncing
TRL04	Initially 3.4% increasing to greater than 5% at 0.13m	Ended as weight bouncing
TRL05	Greater than 5% from surface	Ended as weight bouncing
TRL06	Greater than 5% from surface	Ended as weight bouncing
TRL07	Greater than 5% from surface	Ended as weight bouncing

SECTION 6 Evaluation of Geoenvironmental Analytical Results

6.1 Assessment Methodology

Comparison of the analytical results has been made with the 2015 Suitable 4 Use Levels (S4UL) provided by Land Quality Management (LQM) Limited and the Chartered Institute of Environmental Health (CIEH) or provisional Category 4 Screening Levels (pC4SL).

6.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a commercial/Industrial setting are given in the following tables. The complete results can be found in **Annex G**.

6.2.1 Inorganics & Miscellaneous

Ten samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 6.1**.

Table 6.1 Summary of Soil Chemical Test Results – Inorganics & Miscellaneous

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	640	LQM/CIEH	9.4	57	0
Cadmium	190	LQM/CIEH	<0.10	0.75	0
Chromium III	8600	LQM/CIEH	19	58	0
Chromium VI	33	LQM/CIEH	<0.50	<0.50	0
Copper	68000	LQM/CIEH	26	260	0
Lead	2330	pC4SL	30	1000	0
Mercury (inorganic)	1100	LQM/CIEH	<0.05	0.64	0
Nickel	980	LQM/CIEH	20	120	0
Selenium	12000	LQM/CIEH	0.75	3.9	0
Zinc	730000	LQM/CIEH	57	710	0
Cyanide	-	-	<0.50	7.4	-
Boron	240000	LQM/CIEH	<0.40	0.91	0
Phenols	440	LQM/CIEH	<0.10	<0.10	0
Organic Matter (%)	-	-	0.90	5.6	-
pH	-	-	7.7	8.7	-
Notes: - No available guideline					

6.2.2 Organics

Ten samples were tested for speciated PAH. The summarised results are in **Table 6.2**.

Table 6.2 Summary of Soil Chemical Test Results – Speciated PAH

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Naphthalene	190	LQM/CIEH	< 0.10	0.37	0
Acenaphthylene	83000	LQM/CIEH	< 0.10	0.41	0
Acenaphthene	84000	LQM/CIEH	< 0.10	0.15	0

Fluorene	63000	LQM/CIEH	< 0.10	0.25	0
Phenanthrene	22000	LQM/CIEH	< 0.10	3.5	0
Anthracene	520000	LQM/CIEH	< 0.10	0.82	0
Fluoranthene	23000	LQM/CIEH	< 0.10	6.0	0
Pyrene	54000	LQM/CIEH	< 0.10	4.4	0
Benzo(a)anthracene	170	LQM/CIEH	< 0.10	3.1	0
Chrysene	350	LQM/CIEH	< 0.10	3.1	0
Benzo(b)fluoranthene	44	LQM/CIEH	< 0.10	4.4	0
Benzo(k)fluoranthene	1200	LQM/CIEH	< 0.10	1.5	0
Benzo(a)pyrene	35	LQM/CIEH	< 0.10	3.0	0
Indeno(123cd)pyrene	500	LQM/CIEH	< 0.10	1.9	0
Dibenzo(ah)anthracene	3.5	LQM/CIEH	< 0.10	0.50	0
Benzo(ghi)perylene	3900	LQM/CIEH	< 0.10	2.0	0
Total PAH	-	-	< 2.0	35	-

Notes:
Thresholds based on 1.0% soil organic matter
- No available guidelines

Ten samples were tested for petroleum hydrocarbon. The summarised results are shown in **Table 6.3**.

Table 6.3 Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Substance	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
VPH C5 – C6 Ali	42	LQM/CIEH	<0.05	<0.05	0
VPH C6 – C7 Ali	100^	LQM/CIEH	<0.05	<0.05	0
VPH C7 – C8 Ali	100^	LQM/CIEH	<0.05	<0.05	0
VPH C8 – C10 Ali	27	LQM/CIEH	<0.05	<0.05	0
EPH C10 – C12 Ali	130	LQM/CIEH	<2.0	7.4	0
EPH C12 – C16 Ali	1100	LQM/CIEH	<1.0	7.6	0
EPH C16 – C21 Ali	65000*	LQM/CIEH	<2.0	15	0
EPH C21 – C35 Ali	65000*	LQM/CIEH	<3.0	23	0
EPH C35 – C40 Ali	65000	LQM/CIEH	<10	<10	0
Aromatic					
VPH C5 – C7 Arom	70	LQM/CIEH	<0.05	<0.05	0
VPH C7 – C8 Arom	130	LQM/CIEH	<0.05	<0.05	0
VPH C8 – C10 Arom	34	LQM/CIEH	<0.05	<0.05	0
EPH C10 – C12 Arom	74	LQM/CIEH	<1.0	<1.0	0
EPH C12 – C16 Arom	140	LQM/CIEH	<1.0	<1.0	0
EPH C16 – C21 Arom	260	LQM/CIEH	4.8	23	0
EPH C21 – C35 Arom	1100	LQM/CIEH	<2.0	55	0
EPH C35 – C40 Arom	1100	LQM/CIEH	<1.0	8.8	0

Notes:
VPH –Volatile Petroleum Hydrocarbon
EPH – Extractable Petroleum Hydrocarbon
Ali – Aliphatic
Arom – Aromatic
Thresholds based on 1.0% soil organic matter
^ – Ali C6-C7 and C7-C8 based on criteria for Ali EC >6-8
* – Ali C16-21 and C21-C35 based on criteria for Ali EC >16-35

6.2.3 Asbestos Testing

All made ground soil samples were scheduled for asbestos screening.

Asbestos was not detected.

SECTION 7 Quantitative Risk Assessment

7.1 Contaminants of Concern

All substances tested for were found to be present at concentrations below their respective human health threshold level.

7.2 Mitigation and Remedial Measures

As no contaminants of concern have been identified site specific mitigation or remedial measures are not required for the proposed development.

7.2.1 Human Health

7.2.1.1 Contaminated Soils

Site specific mitigation and remedial measures are not required with respect to human health.

As good practice, construction workers should adhere to good site management, COSHH, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate.

All imported soils should be validated as clean and suitable for use in accordance with 'Requirements for the Chemical Testing of Imported Soils for Various End Uses and Validation Cover Systems'.

For proposed new supply water pipes, the UK Water Industry Research publication 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites (Report 10/WM/03/21)' should be consulted.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties.

If during earthworks ground conditions are encountered that are markedly different to those found during the investigation then the ground should be subject to additional sampling and testing and any necessary remedial measures designed and implemented before continuing with the works.

7.2.1.2 Radon

No radon protective measures are required for new developments on the investigation site, due to the site being in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).

7.2.2 Aquatic Environment

Site specific mitigation and remedial measures are not required with respect to the aquatic environment.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving contaminated soil, drainage misconnections, discharges to local surface waters or the ground, runoff from construction materials and/or exposed ground, wheel washings and oil or chemical spills.

The risk is considered to be negligible as any adverse effects will be easily preventable by due diligence to good construction practise and housekeeping in preventing surface runoff and the spillage of materials.

The basic measures that should be taken are as follows:

- Prepare a drainage plan and mark the manholes to prevent pollutants accidently reaching the surface water sewers;
- Carry out any activities that could cause pollution in a designated, bunded area, away from rivers or boreholes. Where possible it should drain to the foul sewer;
- Use settlement ponds to remove silty water;
- Store all oils and chemicals in a fully bunded area to prevent leaks or spills;
- Get advice on whether you need an environmental permit and apply in good time

SECTION 8 Engineering Recommendations

8.1 Preparation of Site

Areas of vegetation including all roots should be stripped and removed from beneath the proposed development site.

Allowances should be made for any temporary/permanent support works to any existing adjacent structure necessary as a result of the proposed works.

Contingencies should be made for the protection/diversion of any underground/overhead services present beneath/above the site brought about as a result of the proposed works.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department for Transport (DfT) type 2 sub-base or similar should be used and compacted in layers to the requirements of the Specification for Highway Works.

Allowances should also be made for the excavation of any soft spots/areas and their replacement with well compacted imported granular materials.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified on the basis of their specific chemical properties. TFW Group Limited offer this service if required.

8.2 Road and Car Parking Construction

For car parking and road areas, formations within the in-situ natural soils a CBR value of 5% may be used for design purposes.

Allowances should be made for the removal of any ‘soft spots/areas’ and their replacement with well-compacted granular materials as previously described.

Please note that the Local Council / Highways Authority may require in-situ CBR testing to be undertaken on the prepared formation before a road is adopted. In-situ CBR Testing should be performed following any earthworks to verify the performance of the engineered fill.

8.3 Excavations and Formations

Most of the shallow excavations will be possible with normal soil excavating machinery.

Shallow perched water and groundwater flows were not encountered during the investigation. Any water inflows together with rainwater infiltration should be dealt with by conventional pumping techniques. However, it should be noted that during times of heavy rainfall a higher water table will be encountered.

The sides of any excavations deeper than 1.20m, or shallower if unstable, should be supported by planking and strutting or other proprietary means.

The sub-formations/formations are likely to be susceptible to loosening, softening and deterioration by exposure to weather (rain, frost and drying conditions), the action of water (flood water or removal of groundwater) and site traffic.

Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

As a minimum the formation/excavation surfaces must be protected by blinding concrete immediately after exposure.

Allowances should be made for the removal of soft spots/areas and their replacement with well compacted granular materials.

Allowances should also be made for special precautions to prevent formation deterioration in addition to the above.

8.4 Protection of Buried Concrete

Levels of total sulphate within the in-situ materials measured between 120mg/kg to 5700mg/kg and the pH varied between 7.7 and 8.7.

Four samples which had elevated levels of acid soluble sulphate, above 2400mg/kg were further tested for aqueous sulphate. The concentrations of aqueous sulphate were found to be below 10mg/l indicating it is not leachable.

When the results are compared with Table C2 of BRE Digest 1:2005, it indicates that buried concrete should generally conform to Class AC-1.

8.5 Storm Water Drainage

During the site investigation, five soakaway tests were undertaken in general accordance with BRE DG 365:2016. The soakaway test was carried out in trial pits SA01 to SA05.

In **SA01**, the soakaway tests achieved an infiltration rate **$1.63x10^{-03}$ ms^{-01}** (first fill), **$5.46x10^{-04}$ ms^{-01}** (second fill) and **$5.19x10^{-06}$ ms^{-01}** (third fill). The use of soakaway stormwater drainage is therefore considered viable at the location and depth tested.

In **SA02**, the soakaway test recorded **no infiltration** and was subsequently terminated early, It is considered that soakaway storm water draining is unsuitable at the location and depth tested.

In **SA03**, the soakaway tests achieved an infiltration rate **$6.92x10^{-05}$ ms^{-01}** (first fill), **$3.99x10^{-05}$ ms^{-01}** (second fill) and **$2.56x10^{-05}$ ms^{-01}** (third fill). The use of soakaway stormwater drainage is therefore considered viable at the location and depth tested.

In **SA04** and **SA05**, due to rapid infiltration it has not been possible to raise the water level in the trial pits to undertake a test. The water was seen to soakaway immediately due to the large pore spaces between the cobbles and boulders in the made ground. The results may not be representative of the wider site and a suggested soil infiltration rate of **$1.0x10^{-4}$m/s** has been assigned. It is considered that soakaway storm water draining is suitable at the locations and depths tested. However, the storage capacity of the area may be finite.

Proposed soakaways should be positioned at least 5.0m away from any structure.

SECTION 9 Recommended Additional Investigation

9.1 Investigation of Shallow Legacy Mining Features

Due to the presence of probable unrecorded possible shallow mining across the northern area of the site an intrusive investigation will be required. The objectives are as follows.

- Confirm the underlying bedrock geology and underlying stratigraphy.
- Confirm or refute the presence of shallow mining across the site.

To confirm or refute the depth of workings it is recommended that five rotary boreholes are undertaken along the line of the proposed road. The boreholes should be sunk to a minimum depth of 30m into bedrock.

The drilling works will need to be undertaken under a Coal Authority permit.

ANNEX A
Envirocheck Report

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
346644556_1_1

Customer Reference:
TF-24-211-CA JR

National Grid Reference:
305650, 205680

Slice:
A

Site Area (Ha):
0.85

Search Buffer (m):
1000

Site Details:

Site at 305700, 205660

Client Details:

Ms J Rual
TFW Group Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/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

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 4		1	8	33
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 14			1	6
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 15		Yes		
Pollution Incidents to Controlled Waters	pg 15			6	22
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 20			2	
River Quality Biology Sampling Points	pg 21			1	
River Quality Chemistry Sampling Points	pg 22			1	1
Substantiated Pollution Incident Register	pg 23		1		1
Water Abstractions	pg 24				4 (*11)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 27	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 27	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 27	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 27		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 28		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 28		19	53	132

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 51			1	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 51			1	1
Licensed Waste Management Facilities (Locations)	pg 52				4
Local Authority Landfill Coverage	pg 52	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 53			1	3
Potentially Infilled Land (Non-Water)	pg 53		4	4	13
Potentially Infilled Land (Water)	pg 54		3	2	14
Registered Landfill Sites	pg 56			1	4
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 58	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 58	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 60		2	16	33
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 69	Yes	n/a	n/a	n/a
Mining Instability	pg 69	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 69	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 69	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 69	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 69	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 70	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 70	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 71		12	28	53
Fuel Station Entries	pg 79			1	2
Points of Interest - Commercial Services	pg 79		4	8	9
Points of Interest - Education and Health	pg 81				4
Points of Interest - Manufacturing and Production	pg 81			3	12
Points of Interest - Public Infrastructure	pg 83			10	30
Points of Interest - Recreational and Environmental	pg 86		6	4	6
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 88			1	2
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 88				1
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	0	1	305800 205750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	0	1	305651 205700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	0	1	305500 205500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	0	1	305550 205500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	0	1	305651 205650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	305650 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	305650 205650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	305650 205600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (SW)	0	1	305651 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	7	1	305750 205700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	8	1	305650 205700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	19	1	305850 205750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	19	1	305651 205600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	66	1	305850 205950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	81	1	305400 205650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	138	1	305650 205900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	150	1	305350 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	156	1	305400 205700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	193	1	305350 205850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	202	1	305950 206050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	203	1	306000 206000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	214	1	305850 206100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	216	1	305700 205350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	268	1	305350 205800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	274	1	305800 205400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	311	1	305800 206200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	319	1	306150 205850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	321	1	305600 205150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	342	1	305200 205300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	354	1	306100 205650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	363	1	305150 205350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	369	1	306200 205850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	370	1	305850 205300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	371	1	306200 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	382	1	306050 206200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	385	1	305150 205300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	393	1	305100 205400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	396	1	305850 205250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	409	1	305100 205350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	411	1	305150 205250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	413	1	305850 206300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	414	1	306000 205400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	419	1	305900 206300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	420	1	306250 205800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	426	1	305850 205200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	426	1	305800 205150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	429	1	305100 205300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	434	1	306250 206000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	438	1	305900 205250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	438	1	305750 205100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	442	1	305050 205400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	449	1	306000 205350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	453	1	305950 205300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	453	1	306200 206150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	459	1	306250 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	460	1	305700 205050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	460	1	305850 205150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	461	1	305800 206350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	463	1	305850 206350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	466	1	305900 205200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	470	1	305000 205682
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (S)	471	1	305600 205000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	478	1	305950 206350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SE (S)	480	1	305651 205000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	481	1	305950 205250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	481	1	305750 205050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	481	1	306250 205650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	482	1	305000 205450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	483	1	306150 206250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	493	1	306200 205550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	494	1	306250 206150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	497	1	305050 205250
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr Tydfil - Willows Gas W Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0091001 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 20th December 2001 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Taff **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	182	2	305360 205350
2	**Discharge Consents** Operator: Persimmon Homes Ltd Property Type: General Construction Work Location: Oaklands Rise, Elm Tree Grove, Twynyrodyn, Merthyr Tydfil, Cf47 0lr Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Db3194zp Permit Version: Not Supplied Effective Date: 8th April 2024 Issued Date: 8th April 2024 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm Blacs Leading To The River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	318	2	305922 205458
3	**Discharge Consents** Operator: The Leisure Fund Limited Partnership Property Type: Recreational & Cultural Location: Rhyd-Y-Car Leisure Centre Mt, Rhyd-Y-Car, Merthyr Tydfil, Cf48 1ut Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0413101 Permit Version: Not Supplied Effective Date: 12th December 2016 Issued Date: 28th November 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Gb109057033100: Taff - Conf Taf Fechan To Conf R Cynon **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	372	2	305112 205448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: The Leisure Fund Limited Partnership Property Type: Recreational & Cultural Location: Rhyd-Y-Car Leisure Centre Mt, Rhyd-Y-Car, Merthyr Tydfil, Cf48 1ut Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0413101 Permit Version: Not Supplied Effective Date: 12th December 2016 Issued Date: 28th November 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	372	2	305112 205448
3	**Discharge Consents** Operator: Atlantic Properties Ltd Property Type: Sewerage Network - Pumping Station - Others Location: Rhyd-Y-Car Leisure Centre Mt, Rhyd-Y-Car, Merthyr Tydfil, Cf48 1ut Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0413101 Permit Version: 1 Effective Date: 28th September 2007 Issued Date: 28th September 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Taff **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	372	2	305112 205448
4	**Discharge Consents** Operator: Dwr Cymru Welsh Water Property Type: Water Treatment Works Location: Mountain Hare Fw Pumping Station, Oak Tree Rise/Dan-Y-Graig, Ysgubor Newydd, Merthyr Tydfil, South Wales, Cf47 0sn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Xb3690hm Permit Version: Not Supplied Effective Date: 19th July 2018 Issued Date: 29th June 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm-Blacs Culvert **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	383	2	306056 205532
4	**Discharge Consents** Operator: Taylor Wimpey Uk Limited Property Type: Sewerage Network - Pumping Station - Others Location: Mountain Hare Fw Pumping Station, Oak Tree Rise/Dan-Y-Graig, Ysgubor Newydd, Merthyr Tydfil, South Wales, Cf47 0sn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprxb3690hm Permit Version: 1 Effective Date: 17th August 2015 Issued Date: 17th August 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm-Blacs Culvert **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	383	2	306056 205532

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Taylor Wimpey Uk Limited Property Type: Not Supplied Location: Mountain Hare Fw Pumping Station, Oak Tree Rise/Dan-Y-Graig, Ysgubor Newydd, Merthyr Tydfil, South Wales, Cf47 0sn Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: Xb3690hm Permit Version: 1 Effective Date: 17th August 2015 Issued Date: 17th August 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm-Blacs Culvert **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	383	2	306056 205532
5	**Discharge Consents** Operator: Merthyr Tydfil County Borough Council Property Type: Recreational & Cultural Location: Rhydycar Sports Complex Merthyr T, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Af3031901 Permit Version: 1 Effective Date: 2nd October 1972 Issued Date: 2nd October 1972 Revocation Date: 6th May 2004 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Not Supplied Receiving Water: Taff **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	456	2	305014 205565
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Willow Gas Works Merthyr Tydfil, Nr 4 Eastfield Place, Twynyrodyn, Merthyr Tydfil, Cf47 0up Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0091001 Permit Version: Not Supplied 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 Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	537	2	305370 204950
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Willow Gas Works Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0091001 Permit Version: 2 Effective Date: 21st December 2001 Issued Date: 20th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	537	2	305370 204950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Willow Gas Works Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0091001 Permit Version: 2 Effective Date: 21st December 2001 Issued Date: 20th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A8SW (S)	537	2	305370 204950
7	**Discharge Consents** Operator: Celtic Technologies Limited Property Type: Civil Engineering Location: Groundwater Remediation Treatment @, Former Willows Gasworks, The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, Cf48 1yh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprnb3735aw Permit Version: 1 Effective Date: 15th April 2013 Issued Date: 15th April 2013 Revocation Date: 23rd December 2013 Discharge Type: Groundwater - Borehole Discharge Environment: Into Land Receiving Water: Groundwater **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	542	2	305285 204973
8	**Discharge Consents** Operator: Nmc (Uk) Ltd Property Type: Undefined Or Other Location: Afan Taff Htl Rhydycar Merthyr Tyd, Rhydycar Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0115702 Permit Version: 1 Effective Date: 28th November 1988 Issued Date: 28th November 1988 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Taff **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	601	2	304900 205750
9	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Undefined Or Other Location: Water Tmnt Area Wa (Final) Rec Scme, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0264401 Permit Version: 1 Effective Date: 23rd July 1996 Issued Date: 23rd July 1996 Revocation Date: 2nd October 1997 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	609	2	306420 206045

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Undefined Or Other Location: Water Tmnt Area Wa (Storm) Rec Scme, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0264402 Permit Version: 1 Effective Date: 23rd July 1996 Issued Date: 23rd July 1996 Revocation Date: 2nd October 1997 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Authorisation revoked** Positional Accuracy: Unknown	A19SE (E)	700	2	306515 206038
11	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Great White Tip Site Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0238701 Permit Version: 1 Effective Date: 10th November 1992 Issued Date: 10th November 1992 Revocation Date: 1st November 1996 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Culvert To River Taff **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	701	2	306191 206489
12	**Discharge Consents** Operator: Nmc (Uk) Ltd Property Type: Undefined Or Other Location: Afan Taff Htl Rhydycar Merthyr Tyd, Rhydycar Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0115701 Permit Version: 1 Effective Date: 28th November 1988 Issued Date: 28th November 1988 Revocation Date: 3rd April 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Taff **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12NW (W)	712	2	304800 205800
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr - Rear Of Eastfield Te Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: AE2025309 Permit Version: 1 Effective Date: 15th April 1964 Issued Date: 15th April 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Surrendered** Positional Accuracy: Located by supplier to within 100m	A12NW (W)	734	2	304750 205700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr - Rear Of Eastfield Te Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: Ae2025309 Permit Version: 1 Effective Date: 15th April 1964 Issued Date: 15th April 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	734	2	304750 205700
14	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Great White Tip Site Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0238702 Permit Version: 1 Effective Date: 10th November 1992 Issued Date: 10th November 1992 Revocation Date: 1st November 1996 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Culvert And Hence To River Taf **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	748	2	306256 206503
15	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Undefined Or Other Location: Water Tmnt Area Wa (Final) Rec Scme, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264401 Permit Version: 2 Effective Date: 3rd October 1997 Issued Date: 2nd October 1997 Revocation Date: 8th January 1999 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	769	2	306600 205900
16	**Discharge Consents** Operator: The Company Secretary Property Type: Undefined Or Other Location: Wtr Tmnt Area Wa (Final Lag) Rec Sm, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264401 Permit Version: 3 Effective Date: 9th January 1999 Issued Date: 2nd October 1997 Revocation Date: 31st March 2006 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	782	2	306610 205960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Avenue De Clichy Merthyr, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0315501 Permit Version: 1 Effective Date: 10th December 2001 Issued Date: 10th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	810	2	304750 205930
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Avenue De Clichy Merthyr, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0315501 Permit Version: 1 Effective Date: 10th December 2001 Issued Date: 10th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	810	2	304750 205930
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Avenue De Clichy, Merthyr, Southern End Of Avenue De Clichy, Twynyrodyn, Merthyr Tydfil, Cf47 8hb Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0315501 Permit Version: Not Supplied Effective Date: 11th October 2019 Issued Date: 11th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	811	2	304749 205930
18	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Undefined Or Other Location: Water Tmnt Area Wa (Storm) Rec Scme, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264402 Permit Version: 2 Effective Date: 3rd October 1997 Issued Date: 2nd October 1997 Revocation Date: 8th January 1999 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A15NW (E)	869	2	306700 205900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Final Effluent, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: Eprdb3131af Permit Version: 2 Effective Date: 2nd July 2013 Issued Date: 2nd July 2013 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Bargoed Taff **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Final Effluent, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: Eprdb3131af Permit Version: 2 Effective Date: 2nd July 2013 Issued Date: 2nd July 2013 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Bargoed Taff **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Final Effluent, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: Eprdb3131af Permit Version: 1 Effective Date: 30th March 2012 Issued Date: 30th March 2012 Revocation Date: 1st July 2013 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Bargoed Taff **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Final Effluent, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: Eprdb3131af Permit Version: 1 Effective Date: 30th March 2012 Issued Date: 30th March 2012 Revocation Date: 1st July 2013 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Bargoed Taff **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Wa Final Efflu, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264401 Permit Version: 4 Effective Date: 1st January 2013 Issued Date: 18th November 2005 Revocation Date: 29th March 2012 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm Blacs **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969
19	**Discharge Consents** Operator: Miller Argent (South Wales) Ltd Property Type: Trade (Unknown/Other) Location: Water Treatment Area Wa Final Efflu, Ffos Y Fran Land Rec Scheme, Merthyr Tydfil, Mid Glamorgan Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264402 Permit Version: 4 Effective Date: 1st January 2013 Issued Date: 18th November 2005 Revocation Date: 29th March 2012 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Nant Cwm Blacs **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	878	2	306705 205969
19	**Discharge Consents** Operator: The Company Secretary Property Type: Undefined Or Other Location: Water Tmnt Area Wa (Storm) Rec Scme, E Merthyr Rec Scme Tmnt Area Wa, Phase 111a, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0264402 Permit Version: 3 Effective Date: 9th January 1999 Issued Date: 2nd October 1997 Revocation Date: 31st March 2006 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Not Supplied Receiving Water: Nant Cwm Blacs **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15NW (E)	911	2	306740 205950
20	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso College Car Pk Merthyr Tydfil, College Car Park, Cf48 1ar Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0091401 Permit Version: Not Supplied 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 Environment: Freshwater Stream/River Receiving Water: River Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SW (W)	899	2	304710 206040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso College Car Pk Merthyr Tydfil, Cso College Car Park Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0091401 Permit Version: 2 Effective Date: 31st March 2002 Issued Date: 17th July 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SW (W)	899	2	304710 206040
20	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso College Car Pk Merthyr Tydfil, Cso College Car Park Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0091401 Permit Version: 2 Effective Date: 31st March 2002 Issued Date: 17th July 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Taff **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SW (W)	899	2	304710 206040
21	**Discharge Consents** Operator: Merthyr (South Wales) Limited Property Type: Water Treatment Works Location: Cwmbargoed Disposal Point, Fochriw Road, Cwmbargoed, Merthyr Tydfil, Wales, Cf48 4ae Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0276501 Permit Version: Not Supplied Effective Date: 4th October 2018 Issued Date: 4th October 2018 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Morlais **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	972	2	306380 206690
21	**Discharge Consents** Operator: The Company Secretary Property Type: Co-disposal Landfill Sites Location: Water Treatment Area J, East Merthyr Rec Scheme, Merthyr Tydfil, Wales Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An027650101 Permit Version: 1 Effective Date: 8th January 1999 Issued Date: 8th January 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Morlais **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	972	2	306380 206690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Discharge Consents** Operator: The Company Secretary Property Type: Not Supplied Location: Water Treatment Area J, East Merthyr Rec Scheme, Merthyr Tydfil, Wales Authority: Natural Resources Wales Catchment Area: TAFF - CONF TAF FECHAN TO CONF R CYNON Reference: An0276501 Permit Version: 1 Effective Date: 8th January 1999 Issued Date: 8th January 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nant Morlais **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	972	2	306380 206690
22	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr Tydfil - Ave De Clichy Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0091501 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 28th March 2002 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Taff **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	973	2	304720 206180
23	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Education Location: Merthyr Tydfil - Further Educa Carp, Carpk Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0091401 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2002 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Taff **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	974	2	304680 206130
24	**Local Authority Pollution Prevention and Controls** Name: Petrogas Group Uk Ltd Location: 3-3a Lower High Street, Methyr Tydfil Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG1.14/04/10 Dated: 1st March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	415	3	305081 205703
25	**Local Authority Pollution Prevention and Controls** Name: Evans Halshaw Location: Pentrebach Road, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YA Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/34(04) Dated: 1st June 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	549	3	305511 204922

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Local Authority Pollution Prevention and Controls** Name: Tbs (South Wales) Ltd Location: Triumph Works, The Willows, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YH Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: Part B process (no specific reference) **Status: Application exempt from APC** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	664	3	305190 204883
26	**Local Authority Pollution Prevention and Controls** Name: Triumph Business Systsems Location: Tbs (South Wales) Ltd, The Willows, Abercanaid Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/3 Chemical treatment of timber and wood-based products **Status: Application exempt from APC** Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	685	3	305216 204847
27	**Local Authority Pollution Prevention and Controls** Name: British Coal Opencast Location: Incline Top Opencast Site, Goatmill Road, MERTHYR TYDFIL, Mid Glamorgan, CF48 3TD Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG (3)/5(91)-1 Dated: 26th February 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	720	3	305920 206601
28	**Local Authority Pollution Prevention and Controls** Name: Southern Vauxhall Location: Pentrebach Road, Merthr Tydfil, Cf48 1ya Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG1.1/01/13 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Not Supplied** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	734	3	305565 204740
29	**Local Authority Pollution Prevention and Controls** Name: Amnitec Ltd Location: Abercanaid, CF48 1UX Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/45 Surface cleaning **Status: Application Not Yet Authorised** Positional Accuracy: Manually positioned to the address or location	A2NE (S)	920	3	305280 204578
	Nearest Surface Water Feature	A13NE (NE)	114	-	305938 205822
30	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: At Footbridge, Near The Weir Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 28th May 1997 Incident Reference: 32500 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	297	4	305200 205400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Up Stream Of Rhydycar, Road Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 23rd March 1995 Incident Reference: 24240 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	470	4	305001 205531
31	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rhydycar Leisure Centre Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 11th June 1997 Incident Reference: 32967 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	A12SW (W)	500	4	304970 205550
31	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rhydycar Leisure Centre Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: River Taff Incident Date: 11th June 1997 Incident Reference: 32967 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	A12SW (W)	500	4	304970 205545
32	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Stream, Underneath, PENTREBACH Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 20th January 1992 Incident Reference: 1901 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	A12SE (W)	471	4	305001 205601
33	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Goat Mill Road Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 13th March 1997 Incident Reference: 31912 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	A19SW (NE)	484	4	306200 206200
34	**Pollution Incidents to Controlled Waters** Property Type: Road (Lost Load) Location: Bogey Road, Roundabout, MERTHYR TYDFIL Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 15th May 1995 Incident Reference: 24189 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	515	4	306300 206100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Pollution Incidents to Controlled Waters** Property Type: Road Location: A470 Roadscheme, ABERCANAID Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Accidental Spillage/Leakage Incident Date: 2nd October 1995 Incident Reference: 26254 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	587	4	304900 205700
35	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: St Tydfil Court Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: River Taff Incident Date: 5th February 1998 Incident Reference: 34791 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Neglect Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	601	4	304900 205750
36	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near Rhydycar Leisure Centre Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Management Control Incident Date: 4th July 1996 Incident Reference: 29076 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	A12NW (W)	783	4	304700 205700
37	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Merthyr Weir Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Deliberate Act Incident Date: 25th March 1995 Incident Reference: 23038 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	802	4	304800 206000
38	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Bridge At, Technical Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Not Supplied Incident Date: 11th March 1995 Incident Reference: 23452 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	844	4	304750 206000
38	**Pollution Incidents to Controlled Waters** Property Type: Building Sites Location: Weir Pool By, Glass Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 4th April 1992 Incident Reference: 3478 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	885	4	304700 205995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Pollution Incidents to Controlled Waters** Property Type: Building Sites Location: Down Stream Of Glass Road, Bridge Opposite, Town Hall Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Poor Operational Practise Incident Date: 4th April 1992 Incident Reference: 3478 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	887	4	304700 206000
39	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Below Merthyr, 100 Yards Below, Brandy Bridge Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 12th October 1994 Incident Reference: 21322 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	871	4	305500 204600
40	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Weir At Merthyr College Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 26th March 1997 Incident Reference: 31800 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	A17SW (NW)	897	4	304750 206095
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Merthyr Below, Fire Station Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 18th April 1992 Incident Reference: 3837 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	A17SW (NW)	900	4	304750 206100
41	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Opposite College, By Footbridge Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Inadequate Design/Capacity Incident Date: 20th March 1995 Incident Reference: 22990 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	934	4	304705 206095
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Weir In, MERTHYR Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 1st May 1996 Incident Reference: 28200 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	A17SW (NW)	937	4	304705 206100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Merthyr Town Centre, Down Stream Of Weir Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Inadequate Design/Capacity Incident Date: 15th March 1995 Incident Reference: 23528 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	A17SW (NW)	938	4	304700 206095
41	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Opposite Fire Station Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Inadequate Design/Capacity Incident Date: 20th March 1995 Incident Reference: 22990 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	940	4	304705 206105
41	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Merthyr College, Car Park Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Accidental Spillage/Leakage Incident Date: 27th March 1995 Incident Reference: 23459 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	941	4	304700 206100
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Webley Hotel, MERTHYR Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 1st May 1996 Incident Reference: 28200 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	A17SW (NW)	944	4	304700 206105
42	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Behind Hoovers Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 29th July 1991 Incident Reference: 1182 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (S)	910	4	306000 204700
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: MERTHYR TYDFIL Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Inadequate Design/Capacity Incident Date: 7th April 1992 Incident Reference: 3973 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	A17SW (W)	956	4	304650 206050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Weir, MERTHYR Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Emergency Overflow Incident Date: 14th March 1995 Incident Reference: 23539 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	969	4	304605 205995
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: MERTHYR Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Emergency Overflow Incident Date: 14th March 1995 Incident Reference: 23539 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	973	4	304600 205995
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Merthyr-College, Car Park Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 14th March 1995 Incident Reference: 23537 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	A11NE (W)	976	4	304600 206000
	River Quality Name: Taff GQA Grade: River Quality A Reach: Conf.Nant Cannaid-Nant Rhyd Y Car Estimated Distance (km): 1.5 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A12SE (SW)	294	4	305196 205399
	River Quality Name: Taff GQA Grade: River Quality A Reach: Conf.Nant Rhyd'R-Conf.Morlais Estimated Distance (km): 1.1 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A12SE (W)	401	4	305071 205600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**River Quality Biology Sampling Points** Name: Taff Reach: Confluence Nant Cannaid To Nant Rhyd Y Car Estimated Distance: 1.50 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2008 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2009 GQA Grade: River Quality Biology GQA Grade C - Fairly Good	A12SE (W)	374	4	305100 205500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Chemistry Sampling Points** Name: Taff Reach: Confluence Nant Rhyd'R To Confluence Morlais Estimated Distance: 1.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SE (W)	486	4	304988 205621

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**River Quality Chemistry Sampling Points** Name: Taff Reach: Confluence Nant Cannaid To Nant Rhyd Y Car Estimated Distance: 1.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A3NW (S)	835	4	305461 204637
48	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 5th February 2007 Incident Reference: 467094 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A14NW (E)	212	2	306007 205766
49	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 4th September 2013 Incident Reference: 1155986 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert : Construction / Demolition Material Pollutant: Inert Materials And Wastes: Soils And Clay Pollutant: Other Pollutant Pollutant: Specific Waste Materials: Household Waste Pollutant: Specific Waste Materials: Tyres	A14NE (E)	578	2	306409 205887

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**Water Abstractions** Operator: TBS (South Wales) Ltd Licence Number: 21/57/22/0035 Permit Version: 100 Location: Borehole At Tbs (South Wales) Ltd Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole - Depth 93 M Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	840	4	305190 204690
51	**Water Abstractions** Operator: P Forker Contractors Limited Licence Number: 21/57/22/0037 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: River Daily Rate (m3): 300 Yearly Rate (m3): 15000 Details: River Taff Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (W)	913	4	304700 206050
52	**Water Abstractions** Operator: Hoover Plc Licence Number: 21/57/22/0025 Permit Version: 100 Location: Nant Canaid At Glyn-Dyrys Authority: Natural Resources Wales Abstraction: Machinery And Electronics: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nant Canaid Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NE (SW)	916	2	305160 204620
52	**Water Abstractions** Operator: Hoover Plc Licence Number: 21/57/22/0025 Permit Version: 100 Location: Nant Canaid At Glyn-Dyrys Authority: Natural Resources Wales Abstraction: Machinery And Electronics: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	921	2	305160 204615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Merthyr (South Wales) Ltd Licence Number: Wa/057/0022/0004 Permit Version: Not Supplied Location: Ffos-Y-Fran Land Reclamation Scheme, Merthyr Tydfil, Merthyr Tydfil, Cf48 4ah Authority: Natural Resources Wales Abstraction: Extractive: Transfer Between Sources Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): 3022200 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	(NE)	1655	2	307340 206568
	Water Abstractions Operator: Merthyr (South Wales) Limited Licence Number: 21/57/22/0009 Permit Version: Not Supplied Location: Transfers Reservoirs A, B & Cabstraction From Reservoir D, Four Reservoirs, Cf48 4ah Authority: Natural Resources Wales Abstraction: Extractive: Transfer Between Sources Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 272.76 Yearly Rate (m3): 90920 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	(E)	1759	2	307590 205890
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 103 Location: Reservoir C Authority: Natural Resources Wales Abstraction: Extractive: Transfer Between Sources 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: 14th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1769	2	307600 205900
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 102 Location: Reservoir C Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th September 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1769	4	307600 205900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 101 Location: Reservoir C Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources 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: 24th September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1769	4	307600 205900
	Water Abstractions Operator: Celtic Energy Ltd Licence Number: 21/57/22/0009 Permit Version: 100 Location: Reservoir C Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Reservoir Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1769	4	307600 205900
	Water Abstractions Operator: Merthyr (South Wales) Limited Licence Number: 21/57/22/0009 Permit Version: Not Supplied Location: Transfers Reservoirs A, B & Cabstraction From Reservoir D, Four Reservoirs, Cf48 4ah Authority: Natural Resources Wales Abstraction: Extractive: Transfer Between Sources Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 272.76 Yearly Rate (m3): 90920 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	(E)	1904	2	307690 206300
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 103 Location: Reservoir A Authority: Natural Resources Wales Abstraction: Extractive: Transfer Between Sources 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: 14th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1914	2	307700 206300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 102 Location: Reservoir A Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th September 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1914	4	307700 206300
	Water Abstractions Operator: Miller Argent (South Wales) Ltd Licence Number: 21/57/22/0009 Permit Version: 101 Location: Reservoir A Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources 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: 24th September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1914	4	307700 206300
	Water Abstractions Operator: Celtic Energy Ltd Licence Number: 21/57/22/0009 Permit Version: 100 Location: Reservoir A Authority: Environment Agency, Welsh Region Abstraction: Extractive: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Reservoir Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1914	4	307700 206300
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13NE (SW)	0	2	305651 205682
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (SW)	0	2	305651 205682
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (SW)	0	2	305651 205682
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A12SE (W)	206	2	305265 205580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A12SE (W)	227	2	305245 205605
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	96	5	305942 205859
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (E)	114	5	305938 205794
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	114	5	305942 205859
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	140	5	305886 206017
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (E)	140	5	305891 205649
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	140	5	305892 206013
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	141	5	305886 206017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (E)	178	5	305880 205638
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (E)	180	5	305891 205649
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (E)	182	5	305882 205632
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	185	5	305476 205287
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	191	5	305464 205283
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	195	5	306021 205931
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	195	5	305462 205280
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	205	5	305929 206067
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	207	5	305930 206069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	210	5	305953 206059
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 205.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	222	5	305940 206081
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	248	5	305902 205544
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	277	5	305916 205514
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	286	5	306037 205666
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 331.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	300	5	306076 205598
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (E)	303	5	306133 205858
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (E)	303	5	306133 205858
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	320	5	305919 205451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	320	5	305937 205472
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	326	5	305903 205428
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	327	5	305956 205483
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (SW)	340	5	305156 205394
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 425.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	340	5	306127 205638
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 224.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	343	5	305160 205368
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (SW)	346	5	305152 205384
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	346	5	305155 205379
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	347	5	305152 205384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	348	5	305148 205393
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (SW)	349	5	305128 205442
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (SE)	356	5	305844 205320
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (SE)	356	5	305856 205336
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	356	5	305860 205343
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13SE (SE)	356	5	305860 205343
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	363	5	305821 205267
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	363	5	305821 205267
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 215.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (SE)	365	5	305867 205338

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	383	5	306123 205612
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 249.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	387	5	305259 205166
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.7 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	387	5	306062 205534
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (W)	395	5	305075 205559
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	399	5	305071 205550
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	400	5	305785 205172
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (W)	405	5	305065 205573
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (W)	405	5	305065 205573
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	407	5	305062 205559

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	417	5	306116 205559
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12SE (W)	419	5	305051 205574
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	419	5	305051 205583
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	420	5	305051 205583
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	421	5	305705 205095
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 235.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12SE (W)	431	5	305040 205591
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	437	5	306153 205577
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	439	5	305711 205078
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	444	5	305713 205073

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 256.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	451	5	306277 205958
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	451	5	306277 205958
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 241.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NE (S)	470	5	305675 205027
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A14SW (SE)	470	5	306034 205355
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A14SW (SE)	470	5	306034 205355
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	472	5	305950 206345
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	478	5	305940 206353
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	479	5	305939 206354
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	482	5	306244 205638

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 319.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	483	5	306249 205643
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	492	5	306079 205374
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	501	5	306096 205380
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	502	5	305440 204973
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SW (NE)	509	5	306139 206293
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	511	5	305420 204966
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 218.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	512	5	305549 204961
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	515	5	305411 204963
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	521	5	305403 204959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	522	5	305898 206404
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 196.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	524	5	305894 206408
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	532	5	306145 205396
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwmblacs Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	535	5	305384 204949
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (NE)	543	5	306363 205995
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	547	5	306064 205275
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 422.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	548	5	305365 204940
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SW (NE)	552	5	306226 206273
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.7 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	563	5	306196 205418

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 277.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	588	5	306046 205203
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	590	5	306239 205434
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SE (NE)	609	5	306420 206043
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	613	5	306289 205453
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	620	5	306286 205448
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	623	5	305012 205080
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	626	5	305902 204976
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	628	5	304991 205097
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NE (SW)	628	5	304991 205097

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	**OS Water Network Lines** 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	A14NE (E)	630	5	306449 206012
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A19SE (NE)	631	5	306406 206148
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A19SE (NE)	632	5	306433 206095
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 191.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	639	5	305780 204887
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	642	5	305785 204888
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	642	5	305863 204929
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	646	5	305855 204921
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	648	5	305048 205004
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 347.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SE (NE)	650	5	306384 206228

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 463.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-car Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NW (W)	654	5	304830 205694
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 660.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NW (W)	654	5	304830 205694
161	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SE (NE)	657	5	306467 206054
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SE (E)	667	5	306407 205548
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	668	5	305782 206556
164	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 54.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SE (E)	668	5	306411 205555
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 278.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	671	5	305064 204959
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	672	5	306490 206017
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	673	5	304892 205172

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	675	5	306498 205780
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 303.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	675	5	305776 206563
170	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 38.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19SE (E)	679	5	306495 206031
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	686	5	305330 204806
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	694	5	305901 206598
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SE (E)	694	5	306456 205585
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 524.4 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm-bwch Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SE (E)	698	5	306461 205586
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	698	5	304953 205034
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	708	5	306528 206013

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	714	5	306539 205790
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 351.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	714	5	306539 205790
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (SE)	716	5	305981 204924
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	716	5	305895 206600
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	716	5	306005 204938
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 308.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NE (N)	722	5	305881 206607
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	723	5	305686 204771
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	730	5	305663 204758
185	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 215.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	737	5	305954 204877

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	746	5	305264 204763
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	746	5	306223 205154
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	746	5	306226 205156
189	**OS Water Network Lines** 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	A8SE (S)	750	5	305975 204875
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	751	5	305976 204876
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	754	5	304917 204989
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 264.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A7NW (SW)	755	5	304889 205020
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	758	5	304914 204986
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	764	5	306181 205084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	765	5	306178 205077
196	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	767	5	304955 204928
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	769	5	306593 205779
198	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NW (SE)	771	5	306204 205101
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	773	5	305615 204706
200	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SW (S)	773	5	305615 204706
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	785	5	304781 205142
202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	803	5	304754 205158
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	803	5	304754 205158

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	806	5	304747 205163
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	813	5	305982 204803
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	820	5	304738 205152
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	829	5	305314 204663
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	833	5	304700 205208
209	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NE (E)	836	5	306659 205775
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SE (SW)	843	5	305159 204700
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	858	5	306232 204990
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 239.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	858	5	306232 204990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 327.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	865	5	305974 204737
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19NE (NE)	871	5	306367 206574
215	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A23SE (N)	872	5	305914 206755
216	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	881	5	304639 205237
217	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	892	5	304658 205154
218	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	892	5	304658 205154
219	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	893	5	304657 205154
220	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	894	5	304677 205107
221	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7NW (SW)	895	5	304677 205105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (SW)	902	5	304613 205253
223	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 560.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A19NE (NE)	903	5	306373 206610
224	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 296.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A19NE (NE)	903	5	306373 206610
225	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	908	5	305499 204563
226	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	908	5	305166 204626
227	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	909	5	305169 204625
228	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 167.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	914	5	305948 204665
229	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	918	5	305084 204652
230	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (W)	922	5	304579 205305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 225.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	924	5	306245 204896
232	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	924	5	306245 204896
233	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 283.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	934	5	305487 204537
234	**OS Water Network Lines** 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: 2	A6NE (W)	951	5	304544 205336
235	**OS Water Network Lines** 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: 1	A6NE (W)	951	5	304544 205336
236	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (W)	952	5	304543 205336
237	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A23SE (N)	959	5	305686 206840
238	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 251.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (SW)	959	5	304591 205140
239	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A23SE (N)	967	5	305811 206856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	968	5	304999 204641
241	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	970	5	304986 204647
242	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A2NE (SW)	971	5	304996 204640
243	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A23SE (N)	972	5	305810 206861
244	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (W)	979	5	304516 205331
245	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	984	5	306461 205063
246	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 211.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (W)	985	5	304512 205318
247	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	986	5	304851 204726
248	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A9NE (SE)	988	5	306451 205044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A9NE (SE)	988	5	306451 205044
250	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A9NE (SE)	989	5	306455 205047
251	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	991	5	306139 204697
252	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 287.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SW (SE)	991	5	306139 204697
253	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	996	5	306469 205053
254	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A7SW (SW)	999	5	304856 204706
255	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Rhyd-y-car Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A11SE (W)	1000	5	304472 205497
256	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm-pant-bach Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A11SE (W)	1000	5	304472 205497

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	**Historical Landfill Sites** Licence Holder: Mr and Mrs Mahoney Location: Ysgubor Newydd, Merthyr Tydfil Name: Pencoedcae Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14538 First Input Date: 31st December 1974 Last Input Date: 31st December 1992 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6925/0023 BGS Ref: Not Supplied Other Ref: 4	A14SW (E)	500	2	306247 205607
258	**Historical Landfill Sites** Licence Holder: Roy Thomas Location: Merthyr Tydfil Name: Bogey Road Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14534 First Input Date: 31st December 1980 Last Input Date: 31st December 1985 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6925/0004 BGS Ref: Not Supplied Other Ref: Not Supplied	A14NE (E)	587	2	306418 205903
259	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Bogey Road, Mountain Hare, Merthyr Tydfil Name: Incline Side Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14982 First Input Date: 31st December 1989 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6925/0018 BGS Ref: Not Supplied Other Ref: Not Supplied	A14NE (E)	739	2	306569 205937
260	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Ael Y Bryn Landfill Licence Number: 30017 Location: Ael Y Bryn Landfill, Mountain Hare Road, Mountain Hare, Merthyr Tydfil, Glamorgan, CF47 0LH Licence Holder: Hurley T Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied **Licence Status: Closure** Issued: 21st March 1987 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14NW (NE)	359	2	306191 205909
261	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Pencoedcae Farm Landfill Licence Number: 30126 Location: Pencoedcae Farm Landfill, Cwmblacs Slip Road, Cwmblacs, Merthyr Tydfil, Glamorgan, CF48 4AJ Licence Holder: Harris Andrew Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied **Licence Status: Closure** Issued: 18th May 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14SW (E)	501	2	306257 205622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
262	**Licensed Waste Management Facilities (Locations)** Licence Number: DP3799FX Location: Cwmblacs, Merthyr Tydfil, Glamorgan, CF48 4AJ Operator Name: Andrew Harris Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Effective** Issued: 18th May 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	504	2	306260 205620
262	**Licensed Waste Management Facilities (Locations)** Licence Number: 30126 Location: Pencoedcae Farm Landfill, Cwmblacs Slip Road, Cwmblacs, Merthyr Tydfil, CF48 4AJ Operator Name: Harris Andrew Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Closed** Issued: 18th May 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	504	2	306260 205620
263	**Licensed Waste Management Facilities (Locations)** Licence Number: FP3399FP Location: Ael Y Bryn Landfill, Mountain Hare, Merthyr Tydfil, Glamorgan, Merthyr Tydfil, CF47 0LH Operator Name: Tony Hurley Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Surrendered** Issued: 21st March 1987 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd May 2016 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	554	2	306385 205908
263	**Licensed Waste Management Facilities (Locations)** Licence Number: 30017 Location: Ael Y Bryn Landfill, Mountain Hare Road, Mountain Hare, Merthyr Tydfil, CF47 0LH Operator Name: Hurley T Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Closed** Issued: 21st March 1987 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	554	2	306385 205908
	Local Authority Landfill Coverage Name: Merthyr Tydfil County Borough Council - Has supplied landfill data		0	3	305651 205682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
264	**Local Authority Recorded Landfill Sites** Location: Cwmbargoed Lower Reference: 111 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A19SW (NE)	439	3	306235 206060
265	**Local Authority Recorded Landfill Sites** Location: Pencoedcae Farm, Cwmblacks Reference: 103 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1983 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14NW (E)	514	3	306306 205689
266	**Local Authority Recorded Landfill Sites** Location: Incline Side, Mountain Hare Reference: 106 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1992 Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Applicable	A15NW (E)	897	3	306728 205895
267	**Local Authority Recorded Landfill Sites** Location: B.S.C Dowlais Tips Reference: 102 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1979 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A24SW (NE)	981	3	306137 206819
268	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NE (NE)	103	-	305934 205894
269	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SE (SE)	118	-	305831 205607
270	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (NW)	148	-	305549 205866
271	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NE (E)	149	-	305943 205783
272	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	268	-	306087 205809
273	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SE (N)	377	-	305685 206250
274	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (NE)	397	-	306218 205990
275	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (E)	496	-	306229 205587

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SW (NW)	504	-	305361 206151
277	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12SW (W)	633	-	304855 205403
278	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8SW (S)	653	-	305374 204830
279	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9NW (SE)	679	-	306120 205149
280	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NW (SE)	718	-	306308 205306
281	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9SW (SE)	803	-	306027 204849
282	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A7NW (SW)	809	-	304726 205207
283	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A24SW (NE)	864	-	306103 206707
284	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A15NW (E)	872	-	306739 205944
285	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SE (E)	891	-	306608 205441
286	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A24SW (NE)	911	-	306184 206727
287	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A6NE (SW)	975	-	304619 205041
288	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A24SW (NE)	984	-	306154 206817
289	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (S)	121	-	305583 205367
290	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A13SE (S)	153	-	305724 205431
291	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A12SE (SW)	200	-	305312 205378
292	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A14NW (NE)	365	-	306195 205914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
293	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NE (SW)	498	-	305043 205261
294	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NE (SW)	512	-	305127 205117
295	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A8SW (S)	547	-	305350 204945
296	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SW (W)	548	-	304926 205478
297	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A14SW (SE)	562	-	306188 205407
298	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A9NW (SE)	568	-	306147 205337
299	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A7SE (SW)	834	-	304983 204814
300	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A17NE (NW)	836	-	305219 206476
301	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A19NE (NE)	843	-	306518 206378
302	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7SE (SW)	849	-	305007 204779
303	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A3NW (S)	858	-	305622 204621
304	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A19NE (NE)	862	-	306500 206430
305	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (W)	869	-	304676 205912
306	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A19NE (NE)	901	-	306516 206474
307	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A19NE (NE)	945	-	306581 206463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
308	**Registered Landfill Sites** Licence Holder: T Hurley Licence Reference: 890056 Site Location: Ael Y Bryn Landfill, Mountain Hare, MERTHYR TYDFIL, Mid Glamorgan, CF47 0LH Licence Easting: 306300 Licence Northing: 205850 Operator Location: 20 Dyffryn Street, PONTLOTTYN, Mid Glamorgan, CF81 9RQ Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Operational as far as is knownOperational Dated: 1st May 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brick Max.Waste Permitted By Licence Soil, Subsoil, Excav'N Waste Prohibited Waste: Any Substances In Eec Dir. 80/68 Biodegradable Waste Flammable Liquids Percussive/Explosive/Similar Waste Poisonous, Noxious, Polluting Wastes Pumpable Sludges (< 20% Dry Solids) Sub'S Control. Radioactive Subs Act'60 Wast In Sealed Drums Waste N.O.S.	A14NW (E)	470	4	306300 205850
309	**Registered Landfill Sites** Licence Holder: Mr & Mrs Mahoney Licence Reference: 4 Site Location: Pencoedcae Farm, Cwmblacks, Mountain Hare, Merthyr Tydfil, Mid Glamorgan Licence Easting: 306340 Licence Northing: 205680 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Commercial Waste Construction And Demolition Wastes Excavated Natural Materials $ Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Non-Toxic Waste Mine And Quarry Wastes	A14NE (E)	549	4	306340 205680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
310	**Registered Landfill Sites** Licence Holder: A Harris Licence Reference: 940132 Site Location: Pencoedcae Farm, Cwmblacks Slip Road, Mountain Hare, MERTHYR TYDFIL, Mid Glamorgan, CF48 4AJ Licence Easting: 306600 Licence Northing: 205750 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Site closed (licence suspended)Site Closed Dated: 18th May 1994 Preceded By Licence: 930126 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Brick Max.Waste Permitted By Licence Nat'L Stone & Slate Soil, Subsoil, Excav'N Waste Prohibited Waste Any Substances In Eec Dir. 80/68 Biodegradable Waste Poisonous, Noxious, Polluting Wastes Pumpable Sludges (< 20% Dry Solids) Waste In Sealed Drums Waste N.O.S.	A14NE (E)	781	4	306600 205750
310	**Registered Landfill Sites** Licence Holder: A Harris Licence Reference: 930126 Site Location: Pencoedcae Farm, Cwmblacks Slip Road, Mountain Hare, MERTHYR TYDFIL, Mid Glamorgan, CF48 4AJ Licence Easting: 306600 Licence Northing: 205750 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Record supersededSuperseded Dated: 1st February 1993 Preceded By Licence: Not Given Superseded By Licence: 940132 Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Inert Waste	A14NE (E)	781	4	306600 205750
311	**Registered Landfill Sites** Licence Holder: R Thomas Licence Reference: 890057 Site Location: 3 Incline Side, Mountain Hare, Merthyr Tydfil, Mid Glamorgan Licence Easting: 306630 Licence Northing: 205890 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1989 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Excavation Soil & Topsoil	A14NE (E)	799	4	306630 205890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (SW)	0	1	305651 205682
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (SW)	0	1	305651 205682
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	173	1	305342 205391
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	223	1	305308 205763
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	257	1	305217 205512
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	351	1	305991 205487
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (SE)	454	1	306100 205439

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	457	1	305086 205807
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	507	1	306018 205288
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (NE)	548	1	306367 206000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	593	1	304893 205398
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	615	1	306227 205371
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	718	1	304773 205732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	762	1	305602 204715
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	775	1	305982 204850
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NE (SW)	871	1	305180 204660
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (SW)	951	1	304613 205109
312	**BGS Recorded Mineral Sites** Site Name: Trebeddau Level Location: Mouontain Hare, Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90895 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	140	1	305960 205833
313	**BGS Recorded Mineral Sites** Site Name: Pen-Yr-Heol Ironstone Level Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125689 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	219	1	306044 205940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
314	**BGS Recorded Mineral Sites** Site Name: Trebeddau Pit Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125688 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	269	1	306034 205704
315	**BGS Recorded Mineral Sites** Site Name: Penyrheol Air Shaft Location: Penyrheol, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 235646 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	284	1	306104 205807
316	**BGS Recorded Mineral Sites** Site Name: Trebeddau Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125690 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (E)	343	1	306052 205597
317	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90894 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	372	1	306035 205520
317	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90894 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	372	1	306035 205520
318	**BGS Recorded Mineral Sites** Site Name: Pantyffyn Level Location: Thomas Town, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 235645 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	382	1	305751 206266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
319	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90893 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	396	1	305835 205230
319	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90893 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	396	1	305835 205230
319	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Level Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90891 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	407	1	305870 205260
320	**BGS Recorded Mineral Sites** Site Name: Pant-Y-Ffyn Coal Level Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90899 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	410	1	305839 206298
321	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90892 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	411	1	305805 205175
321	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Workings Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90892 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	411	1	305805 205175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
322	**BGS Recorded Mineral Sites** Site Name: Garw Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90896 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A18SE (N)	462	1	305779 206349
323	**BGS Recorded Mineral Sites** Site Name: Clyn-Mil Drift Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90889 Type: Underground **Status: Ceased** Operator: Hill'S Plymouth Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	477	1	305630 205010
323	**BGS Recorded Mineral Sites** Site Name: Clyn-Mil Drift Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90888 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	488	1	305670 205010
323	**BGS Recorded Mineral Sites** Site Name: Prospect House Pit Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125680 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	488	1	305702 205021
324	**BGS Recorded Mineral Sites** Site Name: Cwm Blacks Pit Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90881 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	532	1	306170 205435
325	**BGS Recorded Mineral Sites** Site Name: Merthyr Common Coal Level Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90919 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	534	1	305985 205205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	**BGS Recorded Mineral Sites** Site Name: Coslet Pit Location: Mountain Hare, Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90878 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	536	1	306315 206117
327	**BGS Recorded Mineral Sites** Site Name: Thomas Town Location: Thomas Town, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 9029 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	578	1	305375 206265
328	**BGS Recorded Mineral Sites** Site Name: Pant-Y-Ffyn Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125695 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	588	1	306198 206347
329	**BGS Recorded Mineral Sites** Site Name: Pencoedcae Level Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90882 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	601	1	306382 205647
329	**BGS Recorded Mineral Sites** Site Name: Pencoedcae Level Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90882 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	601	1	306382 205647
330	**BGS Recorded Mineral Sites** Site Name: Lodge Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90897 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	666	1	305805 206555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	**BGS Recorded Mineral Sites** Site Name: Penrheol Ironstone Level Location: Mountain Hare, Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90879 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	669	1	306160 206470
332	**BGS Recorded Mineral Sites** Site Name: Rhyd-Y-Car Pit Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125650 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NW (W)	705	1	304796 205331
333	**BGS Recorded Mineral Sites** Site Name: Rhyd-Y-Car Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125648 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	717	1	304753 205539
334	**BGS Recorded Mineral Sites** Site Name: Ffros-Y-Fran Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125709 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	718	1	306548 205843
335	**BGS Recorded Mineral Sites** Site Name: Thomas Price Pit Location: Mountain Hare, Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90880 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	729	1	306555 205978
336	**BGS Recorded Mineral Sites** Site Name: Clyn-Mil Pit No 1 Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90883 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	774	1	305920 204810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
336	**BGS Recorded Mineral Sites** Site Name: Clyn-Mil Pit No 1 Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90883 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	774	1	305920 204810
337	**BGS Recorded Mineral Sites** Site Name: Pen-Yard Ironstone Workings Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90898 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	779	1	305885 206665
338	**BGS Recorded Mineral Sites** Site Name: Penyard Level Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90890 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	780	1	305700 204715
339	**BGS Recorded Mineral Sites** Site Name: Pen-Yard House Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125687 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	809	1	306029 204843
340	**BGS Recorded Mineral Sites** Site Name: Penydarren No. 2 Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90876 Type: Underground **Status: Ceased** Operator: Dowlais Iron Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	822	1	306490 206379
340	**BGS Recorded Mineral Sites** Site Name: Penydarren No. 2 Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90876 Type: Underground **Status: Ceased** Operator: Dowlais Iron Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	822	1	306490 206379

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
341	**BGS Recorded Mineral Sites** Site Name: Penydarren Level Location: Incline Top, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 235654 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A23SE (N)	849	1	305668 206725
342	**BGS Recorded Mineral Sites** Site Name: Upper Clyn-Mil Clay Pit Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90887 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	850	1	306325 205110
343	**BGS Recorded Mineral Sites** Site Name: Penydarren No. 1 Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90875 Type: Underground **Status: Ceased** Operator: Dowlais Iron Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	877	1	306673 206134
343	**BGS Recorded Mineral Sites** Site Name: Penydarren No. 1 Pit Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90875 Type: Underground **Status: Ceased** Operator: Dowlais Iron Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	877	1	306673 206134
344	**BGS Recorded Mineral Sites** Site Name: Pen-Yard Level Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125676 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A23SE (N)	903	1	305683 206782
345	**BGS Recorded Mineral Sites** Site Name: The Willows Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125647 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	910	1	304715 205003

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
346	**BGS Recorded Mineral Sites** Site Name: Pen-Cae-Bach Pits Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125681 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	940	1	305727 204557
347	**BGS Recorded Mineral Sites** Site Name: Pen-Yard Level Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125679 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A23SE (N)	977	1	305700 206859
347	**BGS Recorded Mineral Sites** Site Name: Pen-Yard Pit Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125678 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A23SE (N)	992	1	305696 206874
347	**BGS Recorded Mineral Sites** Site Name: Pen-Yard Level Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125673 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1000	1	305665 206878
348	**BGS Recorded Mineral Sites** Site Name: Pen-Cae-Bach Cottage Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125683 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	984	1	305843 204544
349	**BGS Recorded Mineral Sites** Site Name: Pwll-Y-Hwyaid Location: Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125702 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	991	1	306468 206647

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
350	**BGS Recorded Mineral Sites** Site Name: Ffos-Y-Fran Land Reclamation Scheme Location: Dowlais, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 235358 Type: Opencast **Status: Dormant** Operator: Miller Argent (South Wales) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	993	1	306600 206515
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (SW)	0	6	305651 205682
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (SW)	0	-	305651 205682
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	173	1	305342 205391
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	305597 205584
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	119	1	305853 205638
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	173	1	305342 205391
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A18SE (N)	200	1	305712 206146
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	4	1	305634 205678
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	41	1	305389 205615
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	55	1	305583 205459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	139	1	305983 205846
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A18SE (N)	149	1	305747 206022
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	161	1	305648 205935
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A14NW (E)	180	1	306058 205693
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	173	1	305342 205391
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682
	Radon Potential - Radon Affected Areas 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	A13NE (SW)	0	1	305651 205682
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	305651 205682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
351	**Contemporary Trade Directory Entries** Name: Ruby Woodcrafts Location: 98a Gilfach Cynon, Merthyr Tydfil, Mid Glamorgan, CF47 0PD Classification: Wood Products, Except Furniture - Manufacturers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	15	-	305792 205884
352	**Contemporary Trade Directory Entries** Name: Planet Wales Three Good Friends Location: 85, Glasier Road, Merthyr Tydfil, Mid Glamorgan, CF47 0SR Classification: Greeting Card Publishers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	24	-	305834 205845
353	**Contemporary Trade Directory Entries** Name: Twyn Launderette Location: Glasier rd, Merthyr Tydfil, Mid Glamorgan, CF47 0TD Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	41	-	305540 205438
354	**Contemporary Trade Directory Entries** Name: Valley Pest Control Location: 16, Taff Glen View, Merthyr Tydfil, Mid Glamorgan, CF47 0TH Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	54	-	305527 205605
355	**Contemporary Trade Directory Entries** Name: Conservatory Shine Location: 2, Parfitt Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0PL Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	120	-	305657 205880
356	**Contemporary Trade Directory Entries** Name: Scotts Autotrade Location: 21, Plymouth Street, Merthyr Tydfil, Mid Glamorgan, CF47 0TT Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	168	-	305302 205568
357	**Contemporary Trade Directory Entries** Name: S A S Location: 28a, Ernest Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YP Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	195	-	305329 205371
358	**Contemporary Trade Directory Entries** Name: Full Cycle Recycle Location: Transfer Station, Mountain Hare, Merthyr Tydfil, Mid Glamorgan, CF47 0LH Classification: Reclaiming - Waste Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	217	-	306005 206017
358	**Contemporary Trade Directory Entries** Name: James Boulton Ltd Location: Dan-yr-Haul, Mountain Hare, Merthyr Tydfil, Mid Glamorgan, CF47 0LH Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	261	-	306055 206021
359	**Contemporary Trade Directory Entries** Name: Russell Roberts Auto Repairs Location: Ernest St, Merthyr Tydfil, Mid Glamorgan, CF47 0YP Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	224	-	305256 205488
360	**Contemporary Trade Directory Entries** Name: Jocks Joinery Location: Warlow St, Merthyr Tydfil, Mid Glamorgan, CF47 0YW Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	224	-	305247 205538
361	**Contemporary Trade Directory Entries** Name: Green Engineering Services Ltd Location: 17, Hawthorn Drive, Merthyr Tydfil, Mid Glamorgan, CF47 0LZ Classification: Engineers - General **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	231	-	306038 205784

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
362	**Contemporary Trade Directory Entries** Name: Kaykel Communications Location: 41, Clare Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YN Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	238	-	305359 205277
362	**Contemporary Trade Directory Entries** Name: W J Hughes Painters & Decorators Location: 47, Clare Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YL Classification: Painting & Decorating Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	261	-	305328 205272
363	**Contemporary Trade Directory Entries** Name: Tribotics Location: The Archers,Clare St, Merthyr Tydfil, Mid Glamorgan, CF47 0YL Classification: Automation Systems & Equipment **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	256	-	305295 205313
364	**Contemporary Trade Directory Entries** Name: Motofix Location: PLYMOUTH STREET, MERTHYR TYDFIL, CF47 0TT Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	273	-	305446 205203
365	**Contemporary Trade Directory Entries** Name: Read Industrial Doors Ltd Location: Unit 7-8, Plymouth Court, Warlow Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YS Classification: Door Manufacturers - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	278	-	305191 205565
365	**Contemporary Trade Directory Entries** Name: Read Industrial Doors Location: Unit 7-8, Plymouth Court, Warlow Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YS Classification: Door Manufacturers - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	278	-	305191 205565
365	**Contemporary Trade Directory Entries** Name: Ecas Systems Ltd Location: The Arches Plymouth Court, Merthyr Tydfil, Mid Glamorgan, CF47 0YS Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	279	-	305191 205575
365	**Contemporary Trade Directory Entries** Name: Rheidol Services Ltd Location: Unit 4-5, Plymouth Court, Warlow Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YS Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	282	-	305190 205592
365	**Contemporary Trade Directory Entries** Name: Advanced Engineering Services (Wales) Ltd Location: Unit 4-5, Plymouth Court, Warlow Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YS Classification: Tool Design, Manufacturers & Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	282	-	305190 205592
366	**Contemporary Trade Directory Entries** Name: A Class Cleaning Location: 78, Twynyrodyn Road, Merthyr Tydfil, Mid Glamorgan, CF47 0PT Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	324	-	305334 205855
367	**Contemporary Trade Directory Entries** Name: S & A Motor Services Location: Rear of Kingsley Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0NR Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SW (N)	341	-	305541 206093

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
367	**Contemporary Trade Directory Entries** Name: P & L Autos Location: Rear Of Kingsley Ter, Merthyr Tydfil, Mid Glamorgan, CF47 0NR Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SW (N)	342	-	305541 206094
367	**Contemporary Trade Directory Entries** Name: A M R Motors Location: Woodland Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0NL Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	371	-	305534 206131
367	**Contemporary Trade Directory Entries** Name: Ray Evans & Son Location: Woodland Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0NL Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	371	-	305534 206131
368	**Contemporary Trade Directory Entries** Name: Akwamasta Water Level - Bevan Products Location: Ty Coed, Penheolferthyr, Mountain Hare, Merthyr Tydfil, Mid Glamorgan, CF47 0LF Classification: Builders' Tools & Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	359	-	306167 206014
369	**Contemporary Trade Directory Entries** Name: Clean Extreme Location: 14, Gladstone Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0UU Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	365	-	305448 205109
370	**Contemporary Trade Directory Entries** Name: Dw Railway Location: 31, Trevithick Gardens, Merthyr Tydfil, Mid Glamorgan, CF47 0RP Classification: Railways **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	378	-	305171 205791
371	**Contemporary Trade Directory Entries** Name: T M S Location: 12, Woodland Place, Merthyr Tydfil, Mid Glamorgan, CF47 0NH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	384	-	305464 206062
372	**Contemporary Trade Directory Entries** Name: Petrol Gas Location: 3a, Lower High Street, Merthyr Tydfil, Mid Glamorgan, CF47 8EB Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	439	-	305065 205729
372	**Contemporary Trade Directory Entries** Name: Apple Green Petrol Gas Location: 3a, Lower High Street, Merthyr Tydfil, Mid Glamorgan, CF47 8EB Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	439	-	305065 205729
372	**Contemporary Trade Directory Entries** Name: Texaco Location: 3, Lower High Street, Merthyr Tydfil, CF47 8EB Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	440	-	305059 205714
372	**Contemporary Trade Directory Entries** Name: Simon Jones Cars Ltd Location: CAR SALES OFFICE & PREMISES, LOWER HIGH STREET, MERTHYR TYDFIL, CF47 8EB Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	440	-	305046 205676

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
372	**Contemporary Trade Directory Entries** Name: Car Care Location: 3 Yew Street, Merthyr Tydfil, Mid Glamorgan, CF47 8EB Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	440	-	305059 205714
372	**Contemporary Trade Directory Entries** Name: Merthyr Motor Co Location: Lower High Street, Merthyr Tydfil, Mid Glamorgan, CF47 8EB Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	453	-	305046 205719
372	**Contemporary Trade Directory Entries** Name: Co-Operative Food Location: Merthyr Tydfil, Mid Glamorgan, Cf47 8eb Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	477	-	305027 205734
373	**Contemporary Trade Directory Entries** Name: A-Klass Freight Services Location: ABERCANAID INDUSTRIAL ESTATE, ABERCANAID, MERTHYR TYDFIL, CF48 1YF Classification: Freight Forwarders **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	459	-	305231 205097
374	**Contemporary Trade Directory Entries** Name: Homestyle By Fads Location: 1, Court Street, Merthyr Tydfil, Mid Glamorgan, CF47 8DU Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	494	-	305035 205795
374	**Contemporary Trade Directory Entries** Name: The Electronic Cigarette Shop Location: 19, Lower High Street, Merthyr Tydfil, CF47 8EB Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	508	-	305020 205794
374	**Contemporary Trade Directory Entries** Name: Ruggers Location: 19, Lower High Street, Merthyr Tydfil, CF47 8EB Classification: Carpets & Rugs - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	508	-	305020 205794
375	**Contemporary Trade Directory Entries** Name: K.A.M. Cleaning Co Location: 1, Tydfil Villas, Courtland Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0DT Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	495	-	305221 205989
376	**Contemporary Trade Directory Entries** Name: U T S Rescue & Recovery Location: The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, CF48 1YF Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	502	-	305254 205033
376	**Contemporary Trade Directory Entries** Name: Alans Tyre Shop Location: THE WILLOWS, ABERCANAID INDUSTRIAL ESTATE, ABERCANAID, MERTHYR TYDFIL, CF48 1YF Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	502	-	305254 205033
377	**Contemporary Trade Directory Entries** Name: Evans Halshaw Ford Merthyr Tydfil Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	544	-	305511 204927

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
377	**Contemporary Trade Directory Entries** Name: Evans Halshaw Body Centre Merthyr Tydfil Location: Pendrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Body Repairs **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	544	-	305511 204927
378	**Contemporary Trade Directory Entries** Name: Dairycrest Dairies Ltd Location: Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Dairies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	581	-	305278 204934
378	**Contemporary Trade Directory Entries** Name: Davies European Service Ltd Location: The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	581	-	305278 204934
379	**Contemporary Trade Directory Entries** Name: Andrew'S Commercial Vehicle Repairs Location: Unit 1, Bogey Road, Mountain Hare, Merthyr Tydfil, Mid Glamorgan, CF48 4AP Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	594	-	306425 205900
379	**Contemporary Trade Directory Entries** Name: Philip Price Commercial Vehicle Services Location: Unit 1, Bogey Road, Mountain Hare, Merthyr Tydfil, CF48 4AP Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	601	-	306432 205896
380	**Contemporary Trade Directory Entries** Name: Speedy Hire Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Machine Tool Accessories & Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	597	-	305452 204876
381	**Contemporary Trade Directory Entries** Name: Kwik Fit - Merthyr Tydfil Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	611	-	305512 204860
382	**Contemporary Trade Directory Entries** Name: J C Plant Services Location: 30, Llwyn yr Eos Grove, Merthyr Tydfil, Mid Glamorgan, CF47 0GD Classification: Plant & Machinery Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	621	-	305814 206510
383	**Contemporary Trade Directory Entries** Name: Mydentist Smiles Dental Glamorgan Location: 29, HIGH STREET, MERTHYR TYDFIL, CF47 8DP Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	630	-	304953 205919
384	**Contemporary Trade Directory Entries** Name: King David Tyres Ltd Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	633	-	305526 204839
384	**Contemporary Trade Directory Entries** Name: Thomas & Davies Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YB Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	678	-	305537 204794

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
384	**Contemporary Trade Directory Entries** Name: Baylis Vauxhall Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	720	-	305563 204753
384	**Contemporary Trade Directory Entries** Name: Baylis Southern Vauxhall Location: PENTREBACH ROAD, MERTHYR TYDFIL, CF48 1YA Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	721	-	305563 204753
384	**Contemporary Trade Directory Entries** Name: Southern Vauxhall Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Dealers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	721	-	305563 204753
385	**Contemporary Trade Directory Entries** Name: Mon Motors Group Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Classification: Car Dealers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	654	-	305477 204818
386	**Contemporary Trade Directory Entries** Name: Excel Hydraulics Ltd Location: Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Hydraulic Equipment & Accessories - Sales & Service **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	658	-	305357 204829
386	**Contemporary Trade Directory Entries** Name: A.M.R. Motors Location: The Old Gas Works,The Willows, Abercanard, Merthyr Tydfil, Mid Glamorgan, CF47 8XB Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7SE (S)	666	-	305312 204832
387	**Contemporary Trade Directory Entries** Name: Triumph Business Systems Location: Triumph Works, The Willows, Merthyr Tydfil, Mid Glamorgan, CF48 1YH Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	664	-	305190 204883
387	**Contemporary Trade Directory Entries** Name: Triumph Location: Triumph Works, The Willows, Merthyr Tydfil, CF48 1YH Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	665	-	305190 204882
387	**Contemporary Trade Directory Entries** Name: Triumph Furniture Ltd Location: Triumph Works, The Willows, Merthyr Tydfil, CF48 1YH Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	665	-	305190 204882
388	**Contemporary Trade Directory Entries** Name: Merthyr Service Centre Location: Flat 7, Buckland House, Caedraw Road, Merthyr Tydfil, Mid Glamorgan, CF47 8HG Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	679	-	304840 205812
389	**Contemporary Trade Directory Entries** Name: Qwik Print Location: 139, High Street, Merthyr Tydfil, Mid Glamorgan, CF47 8DN Classification: Printers Textile **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NW (W)	691	-	304918 205976

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
390	**Contemporary Trade Directory Entries** Name: Tesco Petrol Filling Station Location: Tramroadside North, MERTHYR TYDFIL, Mid Glamorgan, CF47 0AL Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	703	-	305041 206117
391	**Contemporary Trade Directory Entries** Name: Spartan Tools Ltd Location: 23, Lower Thomas Street, Merthyr Tydfil, Mid Glamorgan, CF47 0BY Classification: Agricultural Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	705	-	305117 206170
392	**Contemporary Trade Directory Entries** Name: N P V Recovery Ltd Location: Unit 2 Willows House, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Car Breakdown & Recovery Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	711	-	305386 204769
393	**Contemporary Trade Directory Entries** Name: Currys Location: 50, High Street, Merthyr Tydfil, Mid Glamorgan, CF47 8DE Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	728	-	304950 206070
393	**Contemporary Trade Directory Entries** Name: The Fragrance Shop Location: Unit 7, Beacons Place Shopping Centre, Merthyr Tydfil, CF47 8DF Classification: Perfume Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	740	-	304958 206095
394	**Contemporary Trade Directory Entries** Name: Jks Blinds Location: River Walk, Merthyr Tydfil, Mid Glamorgan, CF47 8EN Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	751	-	304896 206044
394	**Contemporary Trade Directory Entries** Name: T & I Protheroe Location: 17 Graham Way, Merthyr Tydfil, Mid Glamorgan, CF47 8EG Classification: Hardware **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	795	-	304850 206058
395	**Contemporary Trade Directory Entries** Name: Brighthouse Location: 126, High Street, Merthyr Tydfil, CF47 8BT Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	782	-	304923 206119
395	**Contemporary Trade Directory Entries** Name: R Hooper Location: 29, Market Square, Merthyr Tydfil, Mid Glamorgan, CF47 8DA Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	813	-	304876 206115
395	**Contemporary Trade Directory Entries** Name: Stagecoach (South Wales) Location: 6, Victoria Street, Merthyr Tydfil, Mid Glamorgan, CF47 8ED Classification: Bus & Coach Operators & Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	813	-	304876 206115
395	**Contemporary Trade Directory Entries** Name: Stagecoach Location: 6, Victoria Street, Merthyr Tydfil, Mid Glamorgan, CF47 8ED Classification: Bus & Coach Operators & Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	813	-	304876 206115

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
395	**Contemporary Trade Directory Entries** Name: Cosmetics4u Location: 17, New Market Walk, St. Tydfil Square Shopping Centre, Merthyr Tydfil, Mid Glamorgan, CF47 8EL Classification: Cosmetic Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	827	-	304836 206090
396	**Contemporary Trade Directory Entries** Name: Vitassist Ltd Location: 1, JOHN STREET, MERTHYR TYDFIL, CF47 0AE Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	793	-	304964 206171
397	**Contemporary Trade Directory Entries** Name: Wolesley Plc Location: Orbit Centre,Rhydycar Business Park, Merthyr Tydfil, Mid Glamorgan, CF48 1DL Classification: Builders' Merchants **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A11SE (W)	862	-	304615 205446
398	**Contemporary Trade Directory Entries** Name: Oriel Blinds & Son Ltd Location: 1, Corporation Street, Merthyr Tydfil, Mid Glamorgan, CF47 0HP Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	885	-	305549 206733
399	**Contemporary Trade Directory Entries** Name: Welsh Country Foods Location: 50, Glebeland Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AT Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	891	-	304892 206238
399	**Contemporary Trade Directory Entries** Name: Merthyr Dry Cleaners Location: 13, Glebeland Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AU Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	900	-	304862 206224
400	**Contemporary Trade Directory Entries** Name: Amnitec Location: Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1UX Classification: Hose, Tubing & Fittings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NE (S)	920	-	305280 204578
400	**Contemporary Trade Directory Entries** Name: Amnitec Location: Abercanaid, Merthyr Tydfil, CF48 1UX Classification: Hose, Tubing & Fittings **Status: Active** Positional Accuracy: Automatically positioned to the address	A2NE (S)	923	-	305292 204572
401	**Contemporary Trade Directory Entries** Name: Coolio Location: 45, Tramroad Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0BG Classification: Air Conditioning & Refrigeration Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	936	-	305017 206386
401	**Contemporary Trade Directory Entries** Name: 22 Seven Location: 94, Pontmorlais, Merthyr Tydfil, Mid Glamorgan, CF47 8UH Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	973	-	305003 206429
402	**Contemporary Trade Directory Entries** Name: Dot Cotton'S Location: 4 Morlais Buildings, Merthyr Tydfil, CF47 8UL Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	974	-	305044 206485

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
402	**Contemporary Trade Directory Entries** Name: Pontmorlais Old Circus Location: 13 Pontmorlais, Merthyr Tydfil, Mid Glamorgan, CF47 8UB Classification: Antiques - Repairing & Restoring **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	998	-	305010 206480
402	**Contemporary Trade Directory Entries** Name: Dais Location: Flat 2, Pontmorlais, High Street, Merthyr Tydfil, CF47 8UB Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	1000	-	305031 206510
403	**Contemporary Trade Directory Entries** Name: Dip & Strip Location: Dan-y-Parc, Merthyr Tydfil, Mid Glamorgan, CF47 0AX Classification: Paint & Varnish Stripping **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	993	-	305164 206640
404	**Contemporary Trade Directory Entries** Name: M & B Tarmac Location: Incline Top, Merthyr Tydfil, Mid Glamorgan, CF47 0TJ Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A23SE (N)	995	-	305945 206875
405	**Fuel Station Entries** Name: Applegreen Merthyr Tydfil Location: 3-3a, Lower High Street , , Merthyr Tydfil, Merthyr Tydfil, CF47 8EB Brand: Applegreen Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	396	-	305098 205694
406	**Fuel Station Entries** Name: Evans Halshaw Location: Pentrebach Road , Ysgubor Newydd , Merthyr Tydfil, Merthyr Tydfil, CF48 1YA Brand: OBSOLETE Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A8SW (S)	544	-	305507 204928
407	**Fuel Station Entries** Name: Thomas And Davies Location: Pentrebach Road , Ysgubor Newydd , Merthyr Tydfil, Merthyr Tydfil, CF48 1YB Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A8SW (S)	678	-	305537 204794
408	**Points of Interest - Commercial Services** Name: Valley Pest Control Location: 16 Taff Glen View, Twynyrodyn, Merthyr Tydfil, CF47 0TH Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SW (SW)	53	7	305526 205605
408	**Points of Interest - Commercial Services** Name: Valley Pest Control Location: 16 Taff Glen View, Merthyr Tydfil, CF47 0TH Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SW (SW)	54	7	305527 205605
409	**Points of Interest - Commercial Services** Name: Williams Harry Haulage Contractor Location: Maesycynon, Queens Road, Merthyr Tydfil, CF47 0NE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (NW)	242	7	305507 205882
410	**Points of Interest - Commercial Services** Name: Russell Roberts Auto Repairs Location: Ernest Street, Merthyr Tydfil, CF47 0YP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (W)	246	7	305224 205564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
411	**Points of Interest - Commercial Services** Name: Motofix Location: Plymouth Street, Merthyr Tydfil, CF47 0TT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	273	7	305446 205203
412	**Points of Interest - Commercial Services** Name: S & A Motor Services Location: Rear of Kingsley Terrace, Merthyr Tydfil, CF47 0NR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	384	7	305505 206117
413	**Points of Interest - Commercial Services** Name: Applegreen Merthyr Tydfil Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (W)	396	7	305098 205694
413	**Points of Interest - Commercial Services** Name: Car Wash Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (W)	439	7	305065 205729
413	**Points of Interest - Commercial Services** Name: Car Care Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	440	7	305058 205713
414	**Points of Interest - Commercial Services** Name: A1 Autovalet Location: 3 Court Terrace, Merthyr Tydfil, CF47 0SH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (NW)	420	7	305212 205892
414	**Points of Interest - Commercial Services** Name: A1 Autovalet Location: 3 Court Terrace, Merthyr Tydfil, CF47 0SH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (NW)	420	7	305212 205892
415	**Points of Interest - Commercial Services** Name: A-klass Freight Services Location: Abercanaid Industrial Estate, Abercanaid, Merthyr Tydfil, CF48 1YF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	459	7	305231 205097
415	**Points of Interest - Commercial Services** Name: Davies European Service Ltd Location: Abercanaid Industrial Estate, Abercanaid, Merthyr Tydfil, CF48 1YF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	502	7	305254 205033
416	**Points of Interest - Commercial Services** Name: Evans Halshaw Body Centre Merthyr Tydfil Location: Pendrebach Road, Merthyr Tydfil, CF48 1YA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	544	7	305511 204927
416	**Points of Interest - Commercial Services** Name: IMO - arc Clean Car Centres Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SW (S)	554	7	305453 204919
416	**Points of Interest - Commercial Services** Name: Kwik-Fit (GB) Limited Location: Pentrebach Road, Merthyr Tydfil, CF48 1YA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	611	7	305512 204860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
417	**Points of Interest - Commercial Services** Name: Davies European Transport Location: The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, CF48 1YF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (SW)	581	7	305278 204934
418	**Points of Interest - Commercial Services** Name: Philip Price Commercial Vehicle Services Location: Unit 1, Bogey Road, Mountain Hare, Merthyr Tydfil, CF48 4AP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	601	7	306432 205896
419	**Points of Interest - Commercial Services** Name: S J S Asbestos Ltd Location: Willows Garden Centre, Abercanaid Industrial Estate, Abercanaid, Merthyr Tydfil, CF48 1YF Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A8SW (S)	658	7	305357 204829
420	**Points of Interest - Commercial Services** Name: Mason Soft Drinks Location: Dan-y-Parc, Merthyr Tydfil, CF47 0AX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NE (NW)	993	7	305164 206640
420	**Points of Interest - Commercial Services** Name: S & P Mason Ltd Location: Old Radio Rentals Building, Dan-y-Parc, Merthyr Tydfil, CF47 0AX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NE (NW)	993	7	305164 206640
421	**Points of Interest - Education and Health** Name: Mardy Hospital Location: St. Tydfils Hospital, Merthyr Tydfil, CF47 0SJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17SE (NW)	789	7	305168 206342
421	**Points of Interest - Education and Health** Name: St Tydfils Hospital Location: St. Tydfils Hospital, Merthyr Tydfil, CF47 0SJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17SE (NW)	789	7	305168 206342
421	**Points of Interest - Education and Health** Name: St Tydfils Hospital Location: St. Tydfils Hospital, Merthyr Tydfil, CF47 0SJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17SE (NW)	789	7	305168 206342
421	**Points of Interest - Education and Health** Name: St. Tydfils General Hospital Location: St. Tydfils Hospital, Merthyr Tydfil, CF47 0SJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17SE (NW)	789	7	305168 206342
422	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: CF47 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	455	7	305782 206343
422	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: CF47 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A18SE (N)	464	7	305783 206352
423	**Points of Interest - Manufacturing and Production** Name: Works Location: CF47 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	495	7	305059 205836

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
424	**Points of Interest - Manufacturing and Production** Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	590	7	305134 205006
425	**Points of Interest - Manufacturing and Production** Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	672	7	305215 204862
425	**Points of Interest - Manufacturing and Production** Name: Factory Location: CF48 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7SE (SW)	672	7	305223 204858
426	**Points of Interest - Manufacturing and Production** Name: D Wigley Location: Upper Glynmil Cottage, Mountain Hare, Merthyr Tydfil, CF48 4AJ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (SE)	718	7	306108 205057
427	**Points of Interest - Manufacturing and Production** Name: Abercanaid Industrial Estate Location: CF48 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	726	7	305265 204784
428	**Points of Interest - Manufacturing and Production** Name: Orbit Business Centre Location: Merthyr Tydfil, CF48 1DL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A7NW (SW)	749	7	304778 205240
428	**Points of Interest - Manufacturing and Production** Name: Orbit Business Centre Location: CF48 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	750	7	304774 205247
429	**Points of Interest - Manufacturing and Production** Name: Tank Location: CF47 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	822	7	305225 206462
430	**Points of Interest - Manufacturing and Production** Name: Tank Location: CF48 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A2NE (SW)	863	7	305222 204654
431	**Points of Interest - Manufacturing and Production** Name: Tydfil Training Location: William Smith Building 106-109, High Street, Merthyr Tydfil, CF47 8AP Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A17SW (NW)	898	7	304937 206283
432	**Points of Interest - Manufacturing and Production** Name: Factory Location: CF48 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A2NE (S)	939	7	305294 204555
432	**Points of Interest - Manufacturing and Production** Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A2NE (S)	945	7	305280 204552

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
433	**Points of Interest - Public Infrastructure** Name: James Boulton Ltd Location: Dan-yr-Haul, Mountain Hare, Merthyr Tydfil, CF47 0LH Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19SW (NE)	261	7	306055 206021
434	**Points of Interest - Public Infrastructure** Name: Sewage Pumping Station Location: CF47 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	300	7	306022 205631
435	**Points of Interest - Public Infrastructure** Name: Old Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	361	7	305380 205913
435	**Points of Interest - Public Infrastructure** Name: Old Cemetery Location: CF47 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	363	7	305370 205912
436	**Points of Interest - Public Infrastructure** Name: Texaco Location: 3 Lower High Street, Merthyr Tydfil, CF47 8EB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	396	7	305098 205694
436	**Points of Interest - Public Infrastructure** Name: Apple Green Petrol Gas Location: 3 Lower High Street, Merthyr Tydfil, CF47 8EB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	396	7	305098 205694
436	**Points of Interest - Public Infrastructure** Name: Petrol Gas Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	439	7	305065 205729
436	**Points of Interest - Public Infrastructure** Name: Somerfield Merthyr Tydfil 3389-4 Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	439	7	305065 205729
436	**Points of Interest - Public Infrastructure** Name: Co-Op Merthyr Tydfil Location: 3a Lower High Street, Merthyr Tydfil, CF47 8EB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	439	7	305065 205729
437	**Points of Interest - Public Infrastructure** Name: Landfill Site Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	488	7	306317 205843
438	**Points of Interest - Public Infrastructure** Name: Merthyr Tydfil Rail Station Location: CF47 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12NE (NW)	638	7	305005 205997
438	**Points of Interest - Public Infrastructure** Name: Merthyr Tydfil Station Location: Masonic Street, CF47 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12NE (NW)	638	7	305005 205997

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
439	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	657	7	304944 205114
439	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	669	7	304944 205094
440	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	680	7	306464 206136
441	**Points of Interest - Public Infrastructure** Name: Tesco Petrol Filling Station Location: Tramroadside North, Merthyr Tydfil, CF47 0AL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	703	7	305041 206117
442	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	750	7	306426 206344
443	**Points of Interest - Public Infrastructure** Name: Merthyr Tydfil Police Station Location: Police Station, Swan Street, Merthyr Tydfil, CF47 8ES Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A12NW (W)	761	7	304843 205990
443	**Points of Interest - Public Infrastructure** Name: Merthyr Tydfil Police Station Location: Police Station, Swan Street, Merthyr Tydfil, CF47 8ES Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A12NW (W)	761	7	304843 205990
443	**Points of Interest - Public Infrastructure** Name: Merthyr Police Station Location: Police Station, Swan Street, Merthyr Tydfil, CF47 8ES Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A12NW (W)	761	7	304843 205990
443	**Points of Interest - Public Infrastructure** Name: Bus Station Location: CF47 Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	763	7	304823 205963
443	**Points of Interest - Public Infrastructure** Name: Stagecoach (South Wales) Location: 6 Victoria Street, Merthyr Tydfil, CF47 8ED Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A17SW (NW)	813	7	304876 206115
443	**Points of Interest - Public Infrastructure** Name: Stagecoach Location: 6 Victoria Street, Merthyr Tydfil, CF47 8ED Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A17SW (NW)	830	7	304858 206120
443	**Points of Interest - Public Infrastructure** Name: Tesco Petrol Filling Station Location: 1 New Market Walk, St. Tydfil Square Shopping Centre, Merthyr Tydfil, CF47 8EL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	832	7	304808 206063

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
443	**Points of Interest - Public Infrastructure** Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (W)	888	7	304734 206057
443	**Points of Interest - Public Infrastructure** Name: Bus Station Location: CF47 Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	891	7	304810 206159
443	**Points of Interest - Public Infrastructure** Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (W)	896	7	304724 206055
444	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	791	7	306617 205977
445	**Points of Interest - Public Infrastructure** Name: Spoil Heap Location: CF48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	828	7	306346 205169
446	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	839	7	306458 205312
446	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	844	7	306445 205284
446	**Points of Interest - Public Infrastructure** Name: Refuse Tips (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	933	7	306530 205251
447	**Points of Interest - Public Infrastructure** Name: Refuse Tips (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	850	7	306626 206189
448	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	856	7	304717 205111
448	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: CF48 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	862	7	304688 205159
449	**Points of Interest - Public Infrastructure** Name: Merthyr Bridewell Police Station Location: Rhydycar Business Park, Merthyr Tydfil, CF48 1DL Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A11SE (W)	858	7	304619 205445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
450	**Points of Interest - Public Infrastructure** Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	896	7	305480 204575
450	**Points of Interest - Public Infrastructure** Name: Weir Location: CF48 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	901	7	305473 204571
451	**Points of Interest - Public Infrastructure** Name: Old Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	913	7	305086 206439
451	**Points of Interest - Public Infrastructure** Name: Old Cemetery Location: CF47 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	919	7	305077 206438
452	**Points of Interest - Recreational and Environmental** Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	69	7	305538 205408
452	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Glasier Road, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	136	7	305581 205352
452	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	139	7	305591 205353
453	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	108	7	305939 205875
453	**Points of Interest - Recreational and Environmental** Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	119	7	305950 205892
454	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	136	7	305334 205559
455	**Points of Interest - Recreational and Environmental** Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	300	7	305352 205209
456	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Gilfach-Cynon), CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (NW)	342	7	305414 205924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
456	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	343	7	305413 205925
457	**Points of Interest - Recreational and Environmental** Name: Skateboard Park Location: CF48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12SW (W)	499	7	304971 205539
458	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	544	7	305424 206268
458	**Points of Interest - Recreational and Environmental** Name: Playground Location: Summerhill Place, CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	549	7	305416 206267
459	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	761	7	305594 206617
459	**Points of Interest - Recreational and Environmental** Name: Play Area Location: CF47 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	779	7	305610 206641
460	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A11SE (W)	918	7	304557 205659
460	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Cae'R Wern), CF48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A11SE (W)	918	7	304557 205659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
461	**Ancient Woodland** Name: Not Supplied Reference: 22397 Area(m²): 18406.77 Type: Restored Ancient Woodland Site	A14SW (E)	448	2	306225 205673
462	**Ancient Woodland** Name: Not Supplied Reference: 16790 Area(m²): 2836.92 Type: Ancient and Semi-Natural Woodland	A14NE (E)	645	2	306465 205764
463	**Ancient Woodland** Name: Not Supplied Reference: 16788 Area(m²): 10561.06 Type: Ancient and Semi-Natural Woodland	A7SE (SW)	706	2	305086 204898
464	**Sites of Special Scientific Interest** Name: Cwm Glo A Glyndyrys Multiple Areas: N Total Area (m2): 1813102.27 Source: Natural Resources Wales Reference: 159733wnl Designation Details: Biological Designation Date: 23rd January 2003 Date Type: Notified	A7NW (SW)	760	2	304893 205008

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	November 2023	Annually
Powys County Council - Public Protection Department	October 2017	Annual Rolling Update
Rhondda Cynon Taff County Borough Council - Environmental Services	October 2017	Annual Rolling Update
Caerphilly County Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Merthyr Tydfil County Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	May 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2021	Quarterly
Natural Resources Wales	May 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Powys County Council - Public Protection Department	May 2014	Variable
Caerphilly County Borough Council - Environmental Health Department	September 2014	Variable
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	September 2014	Variable
Merthyr Tydfil County Borough Council - Environmental Health Department	September 2016	Variable
Local Authority Pollution Prevention and Controls		
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	December 2020	Annual Rolling Update
Powys County Council - Public Protection Department	May 2014	Annual Rolling Update
Caerphilly County Borough Council - Environmental Health Department	September 2014	Not Applicable
Merthyr Tydfil County Borough Council - Environmental Health Department	September 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	December 2020	Variable
Powys County Council - Public Protection Department	May 2014	Variable
Caerphilly County Borough Council - Environmental Health Department	September 2014	Variable
Merthyr Tydfil County Borough Council - Environmental Health Department	September 2016	Variable
Nearest Surface Water Feature		
Ordnance Survey	March 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register		
Natural Resources Wales	February 2024	Quarterly
Environment Agency Wales - South East Area	January 2021	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	 April 2024 May 2024	 Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	 October 2017 October 2022	
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations Natural Resources Wales	January 2018	As notified
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	April 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South East Area	January 2023	Quarterly
Natural Resources Wales	October 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South East Area	July 2021	Quarterly
Natural Resources Wales	May 2024	Quarterly
Local Authority Landfill Coverage		
Caerphilly County Borough Council - Environmental Health Department	February 2003	Not Applicable
Merthyr Tydfil County Borough Council - Environmental Health Department	February 2003	Not Applicable
Powys County Council	February 2003	Not Applicable
Rhondda Cynon Taff County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Caerphilly County Borough Council - Environmental Health Department	October 2018	
Merthyr Tydfil County Borough Council - Environmental Health Department	October 2018	
Powys County Council	October 2018	
Rhondda Cynon Taff County Borough Council	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Brecon Beacons National Park	August 2008	Annual Rolling Update
Rhondda Cynon Taff County Borough Council - Planning Department	February 2016	Variable
Caerphilly County Borough Council - Planning Department	January 2023	Variable
Merthyr Tydfil County Borough Council - Planning Department	January 2023	Variable
Powys County Council - Planning Department	May 2023	Variable
Planning Hazardous Substance Consents		
Brecon Beacons National Park	August 2008	Annual Rolling Update
Powys County Council - Planning Department	February 2016	Variable
Rhondda Cynon Taff County Borough Council - Planning Department	February 2016	Variable
Caerphilly County Borough Council - Planning Department	January 2023	Variable
Merthyr Tydfil County Borough Council - Planning Department	January 2023	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2024	Quarterly
Points of Interest - Education and Health PointX	March 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2024	Quarterly
Points of Interest - Public Infrastructure PointX	March 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	April 2024	Bi-Annually
Areas of Adopted Green Belt		
Brecon Beacons National Park	February 2024	Quarterly
Caerphilly County Borough Council	February 2024	Quarterly
Merthyr Tydfil County Borough Council	February 2024	Quarterly
Powys County Council	February 2024	Quarterly
Rhondda Cynon Taff County Borough Council	February 2024	Quarterly
Areas of Unadopted Green Belt		
Brecon Beacons National Park	February 2024	Quarterly
Caerphilly County Borough Council	February 2024	Quarterly
Merthyr Tydfil County Borough Council	February 2024	Quarterly
Powys County Council	February 2024	Quarterly
Rhondda Cynon Taff County Borough Council	February 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	May 2024	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Caerphilly County Borough Council	February 2024	Bi-Annually
Merthyr Tydfil County Borough Council	February 2024	Bi-Annually
Powys County Council	February 2024	Bi-Annually
Rhondda Cynon Taff County Borough Council	February 2024	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	February 2024	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2024	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	April 2024	Bi-Annually
Ramsar Sites		
Natural Resources Wales	February 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	October 2023	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	April 2024	Bi-Annually
Special Protection Areas		
Natural Resources Wales	April 2024	Bi-Annually

Data Suppliers

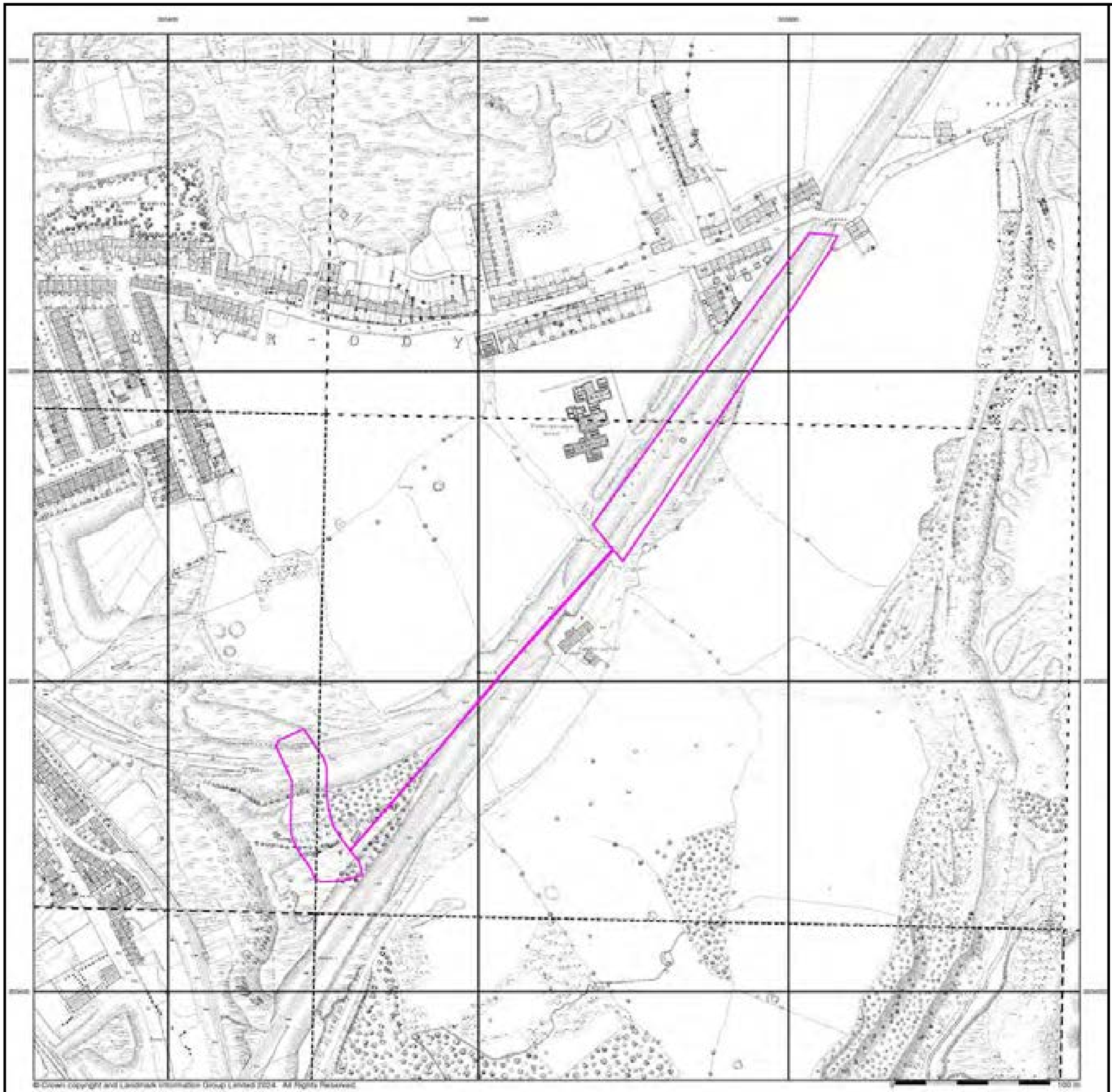
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** 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	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Merthyr Tydfil County Borough Council - Environmental Health Department** Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 725024 Website: www.merthyr.gov.uk
4	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Merthyr Tydfil County Borough Council** Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 722146 Website: www.merthyr.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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terra firma
Geotechnical & Geoenvironmental Specialists

Glamorganshire

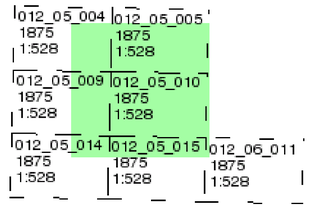
Published 1875

Source map scale - 1:528

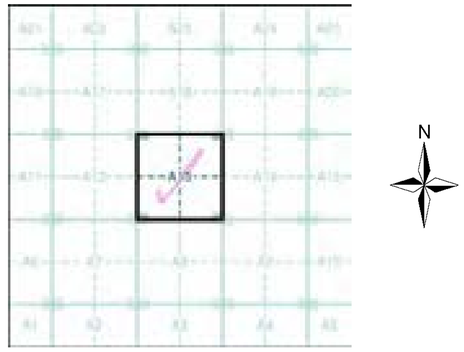
The 1:528 scale Ordnance Survey mapping was adopted in 1850 as an alternative to the 1:1056 scale, that had been deemed to be inadequate for sanitary planning, which had come very much to the fore following the passing of the Public Health Act of 1948. Around 29 towns in England and Wales were surveyed at this scale, the bulk of which were undertaken between 1850 and 1855. These were predominantly towns that were outside the areas being surveyed at 1:10,560 or 1:2500 scale. As well as showing the details characteristic of the later 1:500 plans, they show features of sanitary interest such as privies, taps, cow houses, cess pits, brew and bake houses and cart sheds and stables.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	0

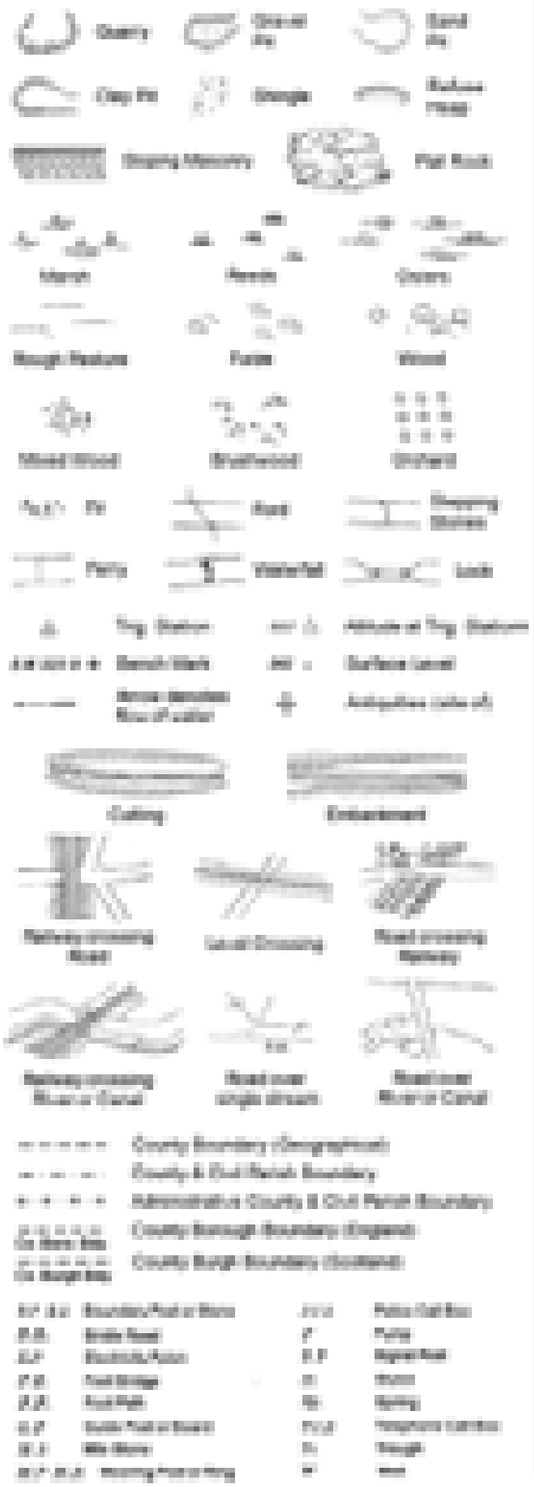
Site Details

Site at 305700, 205660

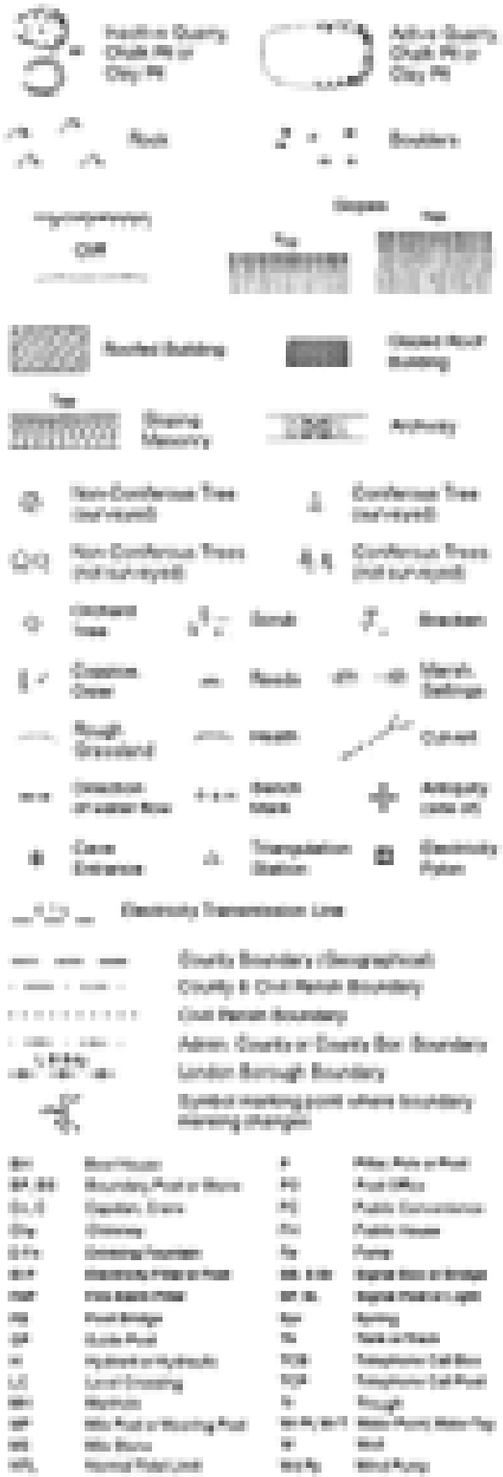
Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

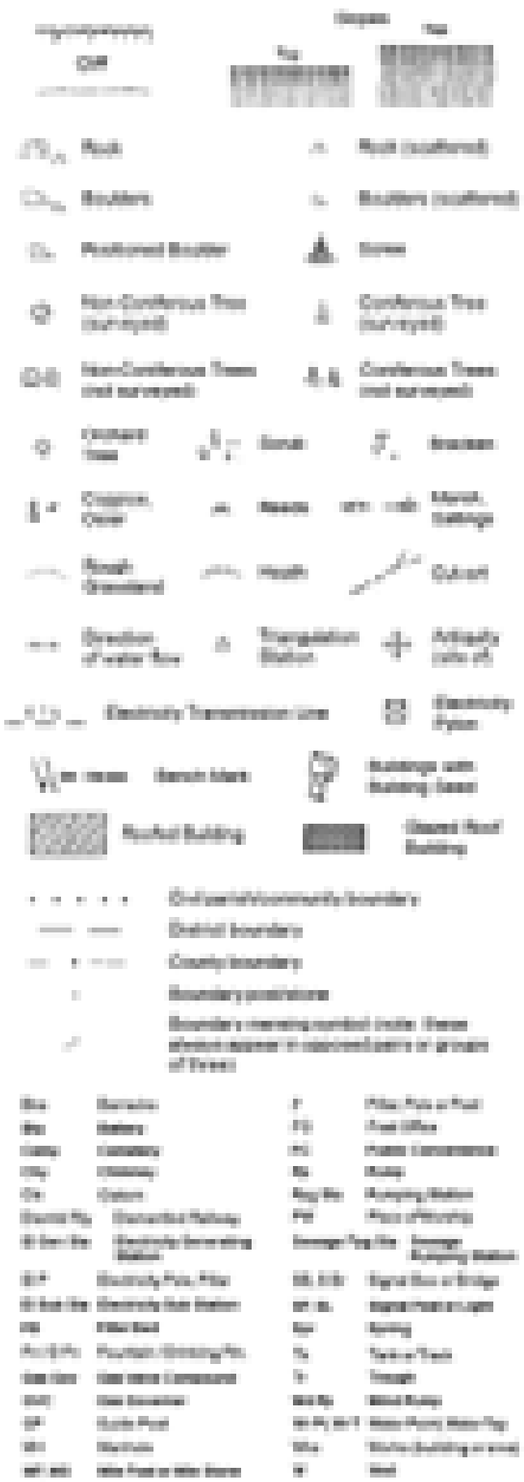
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

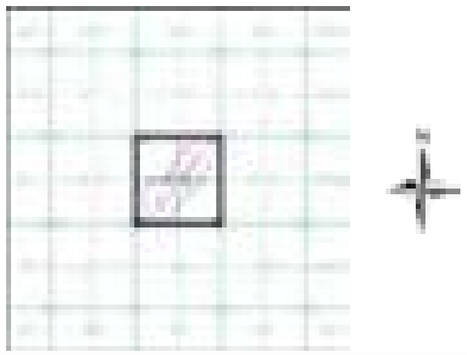


terra firma

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Ordnance Survey Plan	1:1,250	1957	5
Ordnance Survey Plan	1:2,500	1958	6
Ordnance Survey Plan	1:1,250	1969 - 1977	7
Supply of Unpublished Survey Information	1:1,250	1975	8
Additional SIMs	1:1,250	1981 - 1989	9
Additional SIMs	1:1,250	1989 - 1992	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:1,250	1994 - 1995	12
Large-Scale National Grid Data	1:1,250	1995	13
Large-Scale National Grid Data	1:1,250	1996	14
Large-Scale National Grid Data	1:1,250	1996	15
Historical Aerial Photography	1:2,500	2000	16

Historical Map - Segment A13



Order Details

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Customer Ref: TF-24-211-CA JR
National Grid Reference: 305650, 205680
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

Site at 305700, 205660

Landmark
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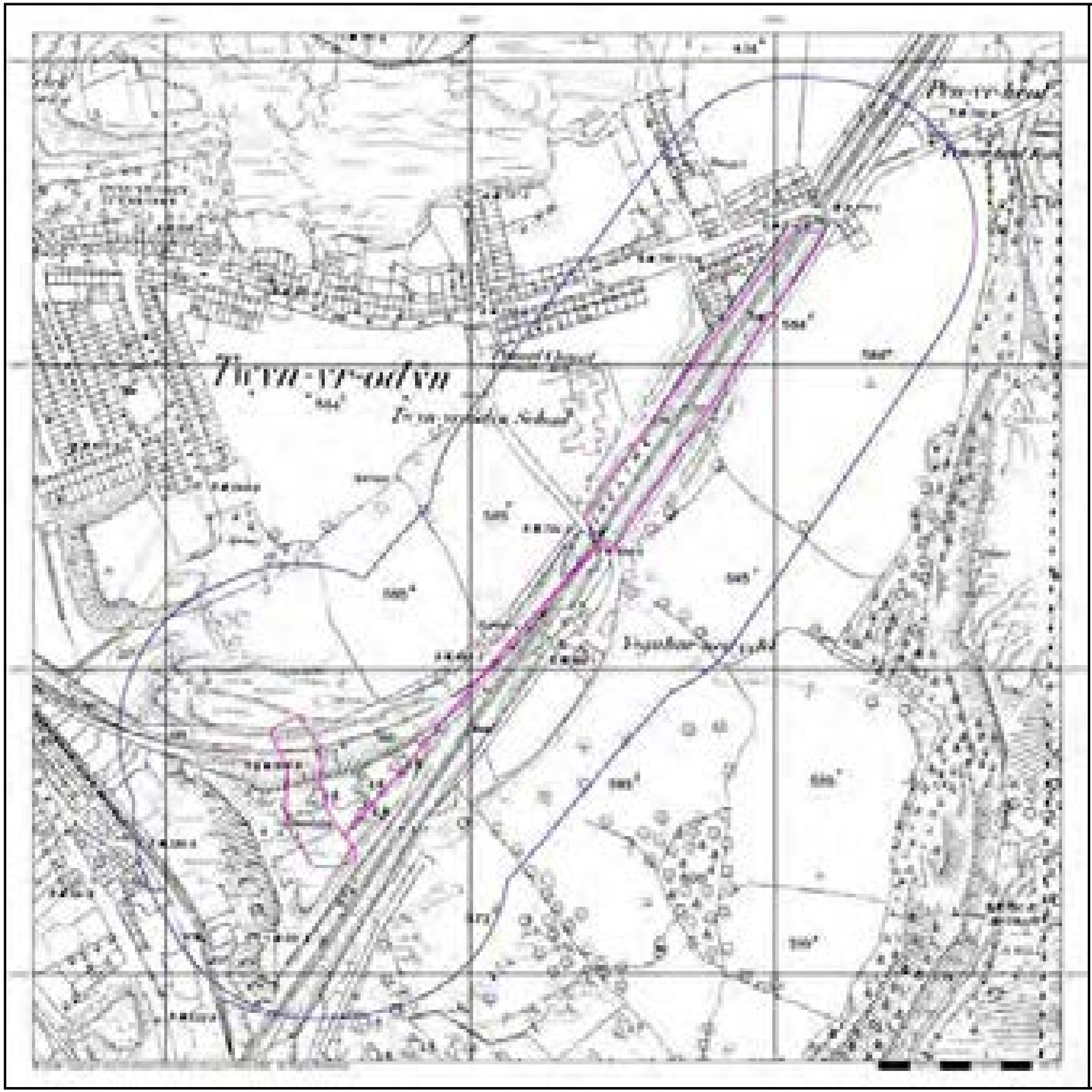
Web: www.envirocheck.co.uk



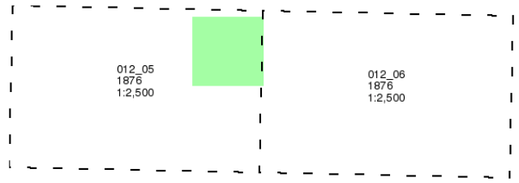
Glamorganshire

Published 1876

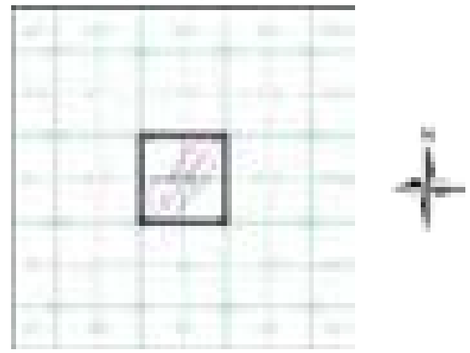
Source map scale - 1:2,500

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:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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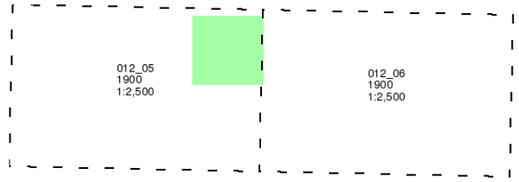
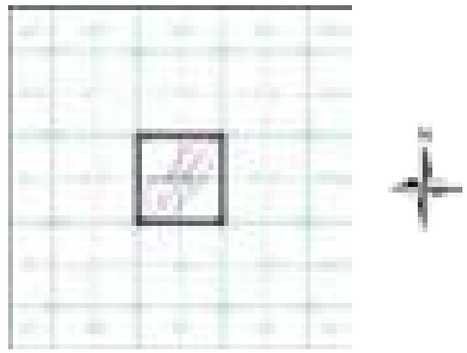
Map Name(s) and Date(s)



Historical Map - Segment A13



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Search Buffer (m):	100

Site Details

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Glamorganshire

Published 1919

Source map scale - 1:2,500

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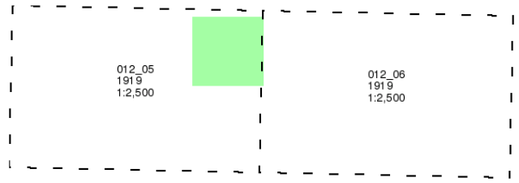
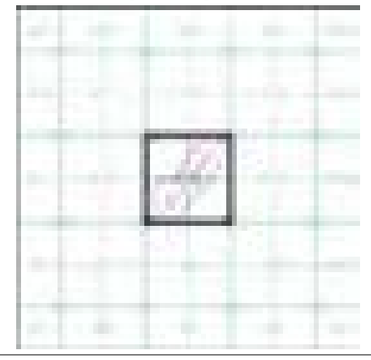
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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Ordnance Survey Plan

Published 1957

Source map scale - 1:1,250

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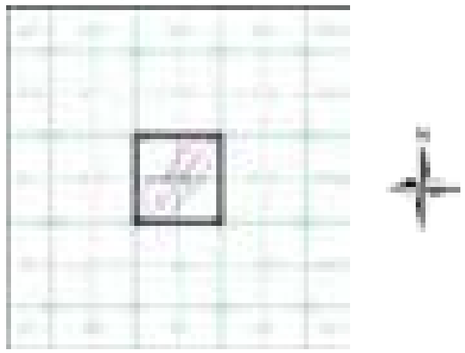
Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

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Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

Tel: 0844 844 9952
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Ordnance Survey Plan

Published 1958

Source map scale - 1:2,500

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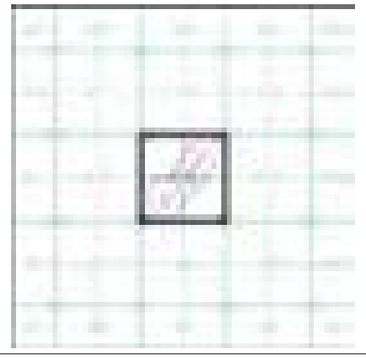
Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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Ordnance Survey Plan

Published 1969 - 1977

Source map scale - 1:1,250

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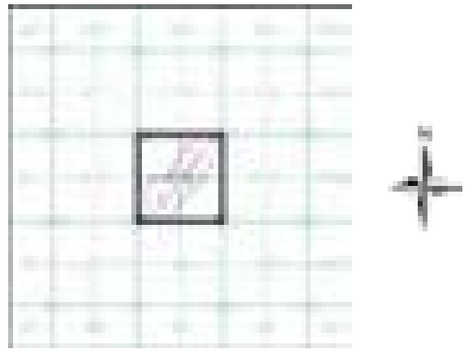
Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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

Supply of Unpublished Survey Information

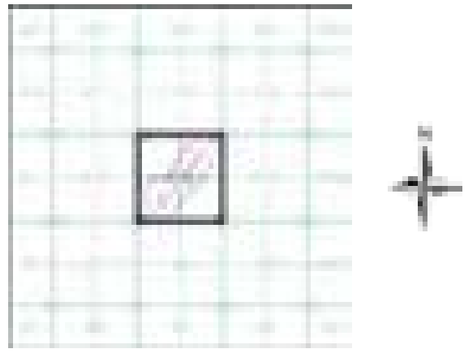
Published 1975

Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

Historical Map - Segment A13



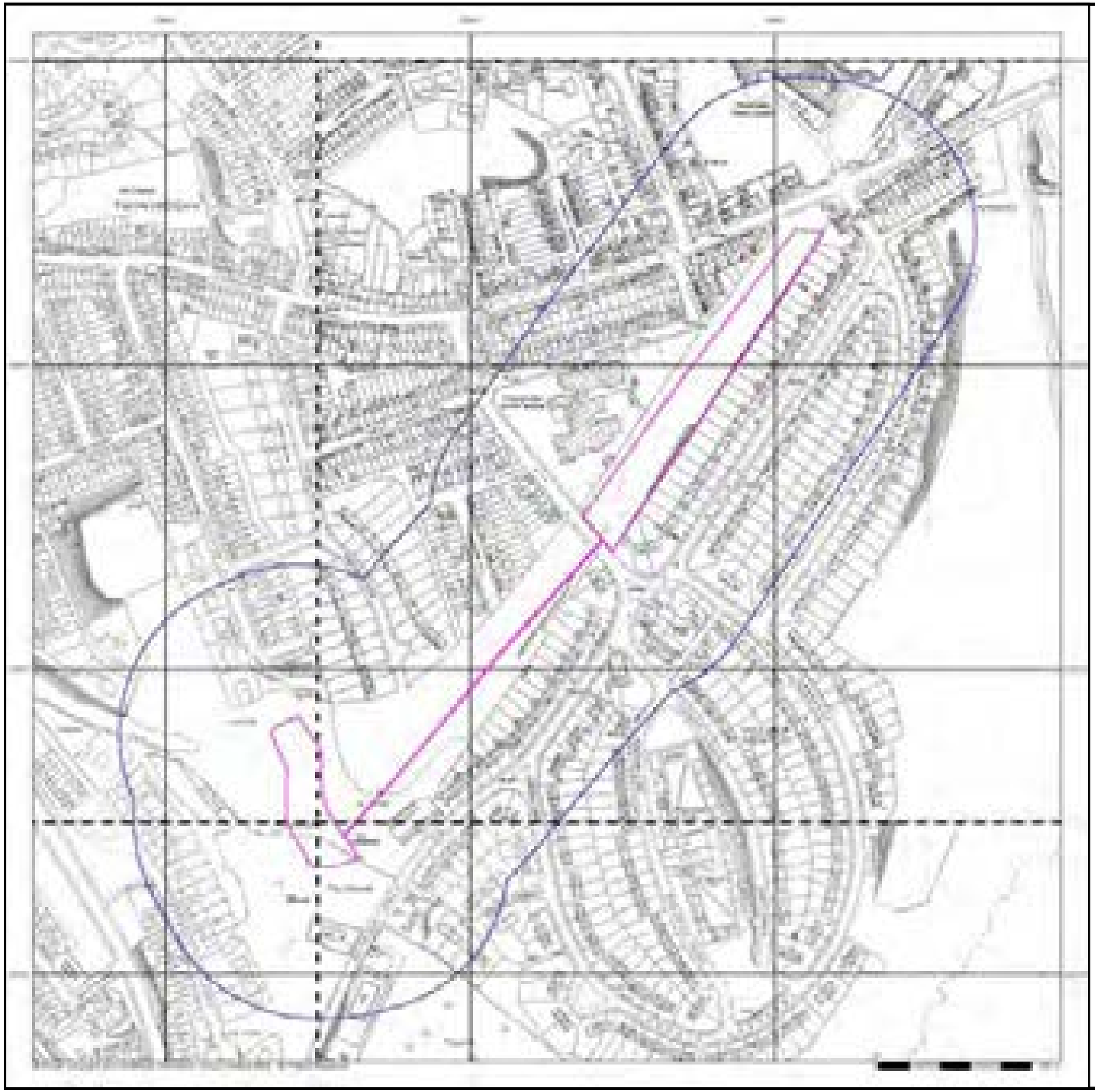
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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



Additional SIMs

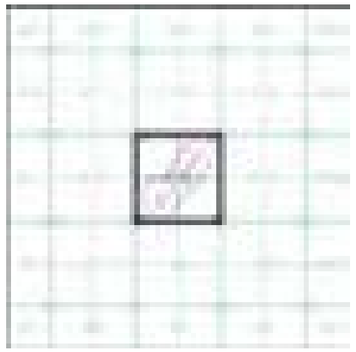
Published 1981 - 1989

Source map scale - 1:1,250

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



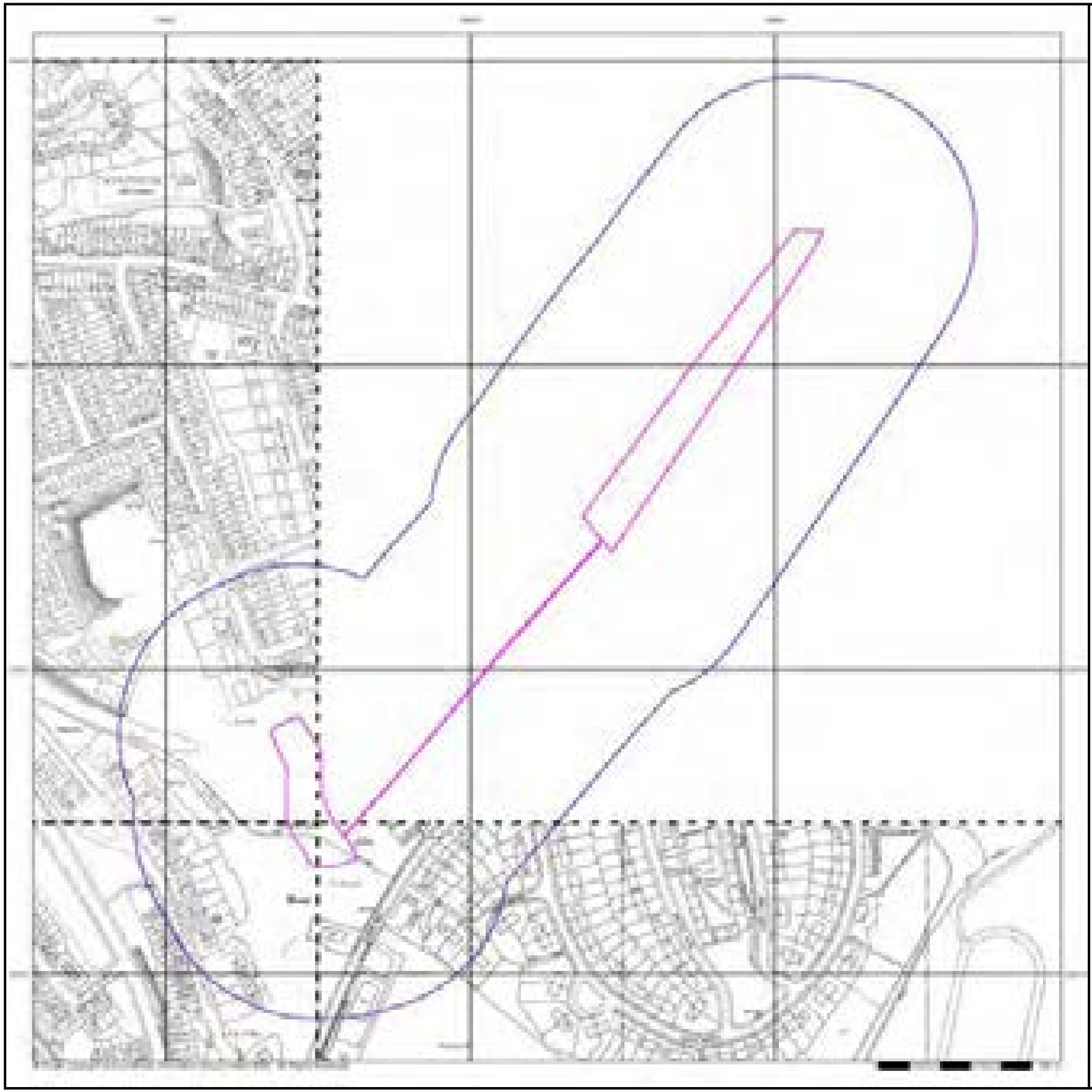
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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



Additional SIMs

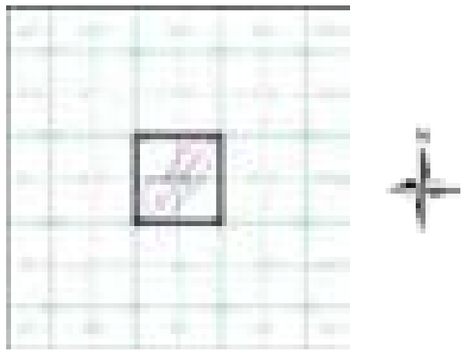
Published 1989 - 1992

Source map scale - 1:1,250

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:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

Tel: 0844 844 9952
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Large-Scale National Grid Data

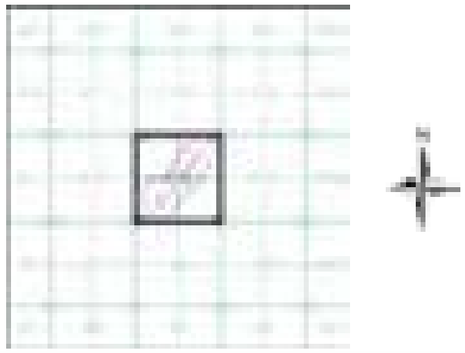
Published 1993

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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

Large-Scale National Grid Data

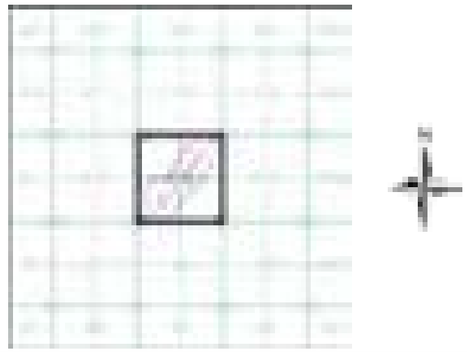
Published 1994 - 1995

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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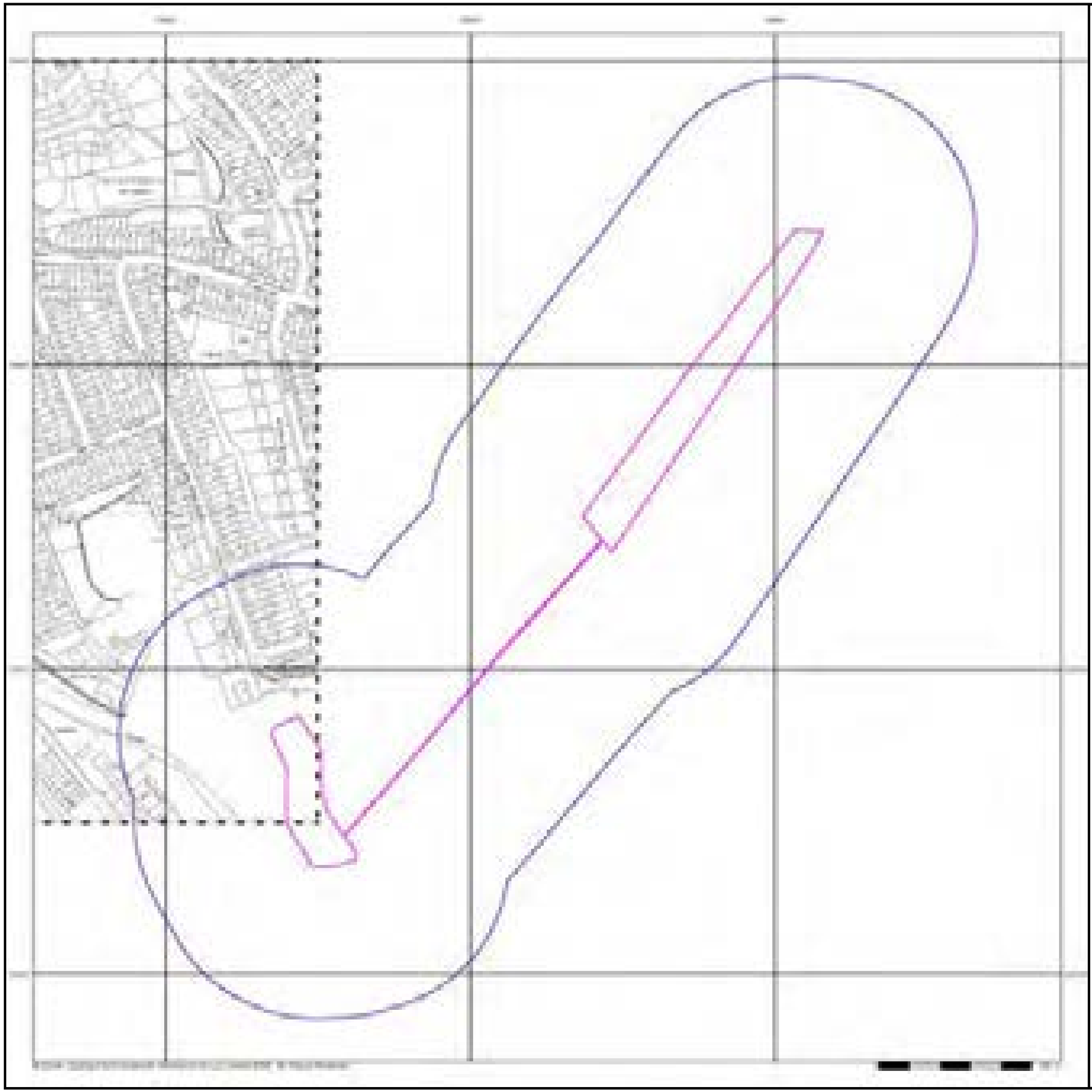


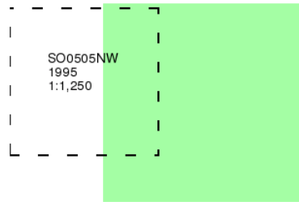
Large-Scale National Grid Data

Published 1995

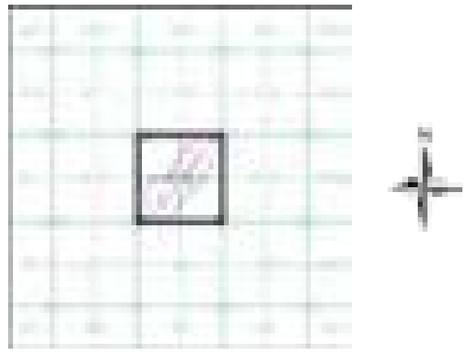
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



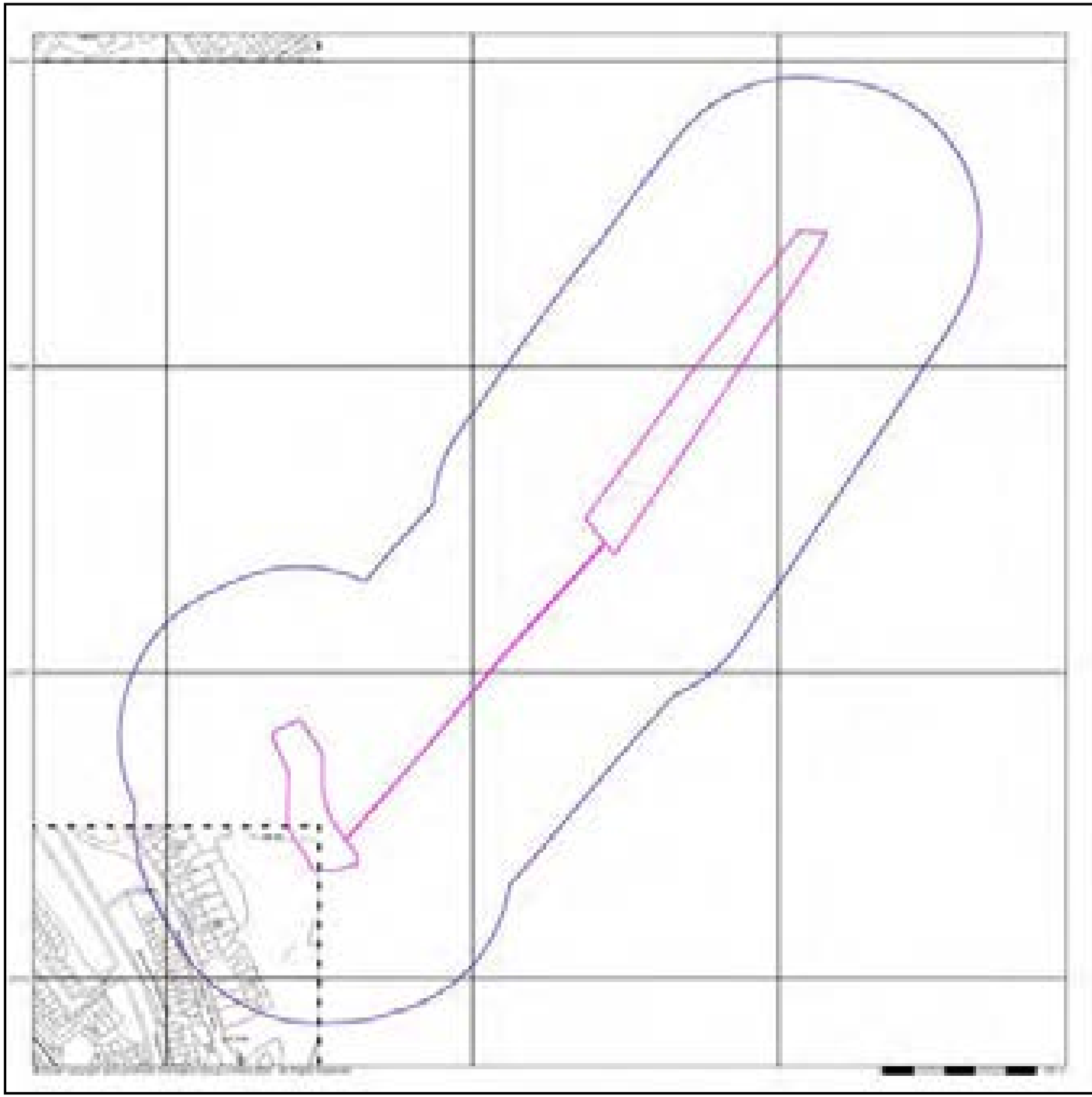
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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



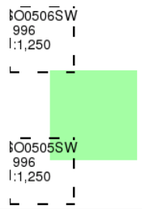
Large-Scale National Grid Data

Published 1996

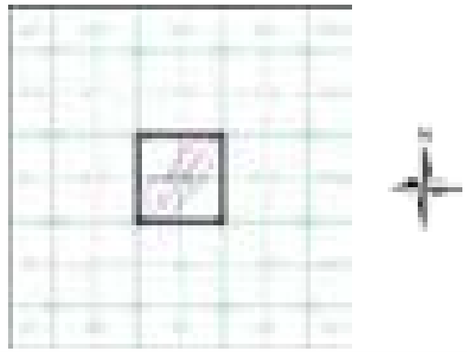
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



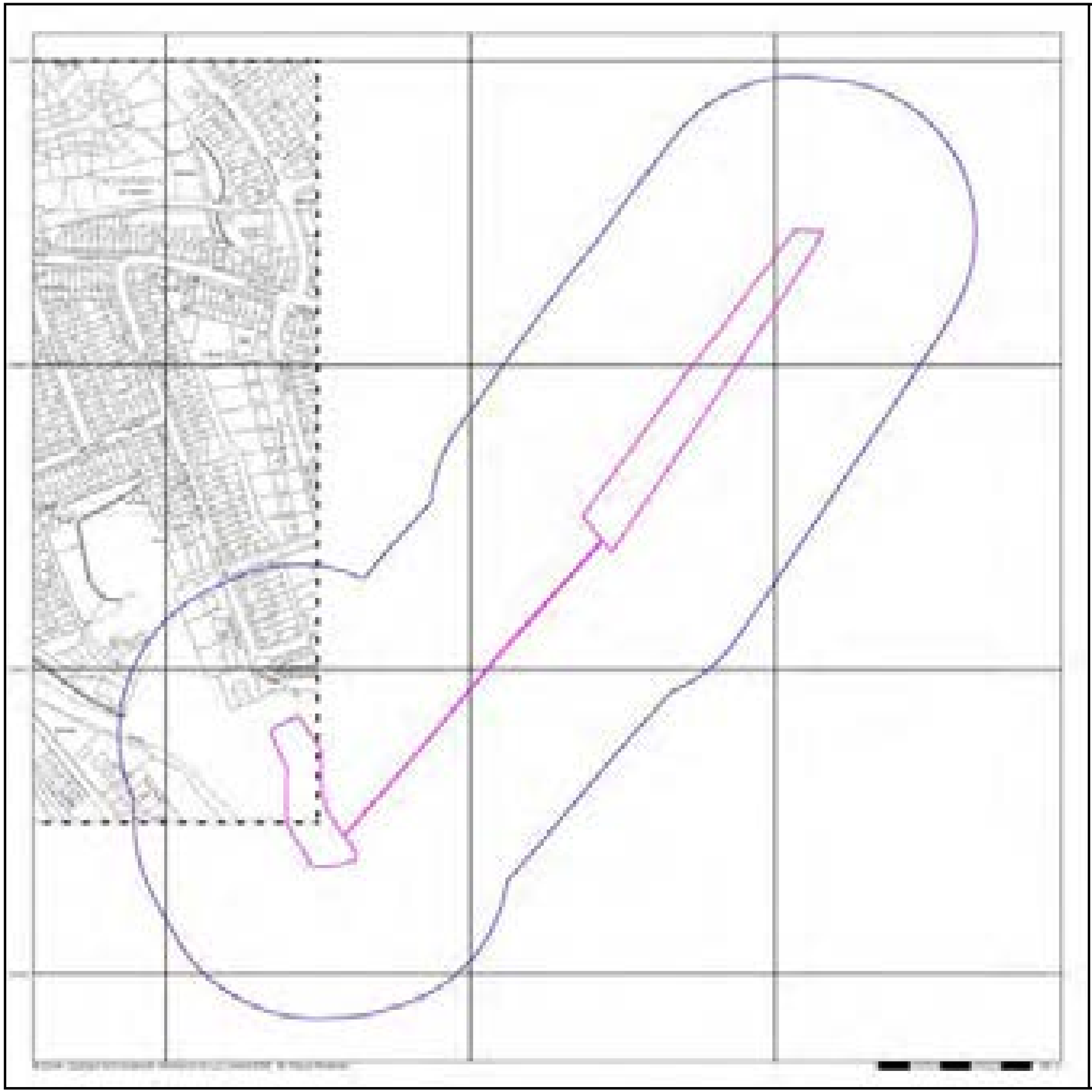
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

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



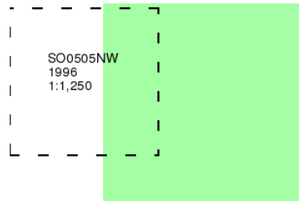
Large-Scale National Grid Data

Published 1996

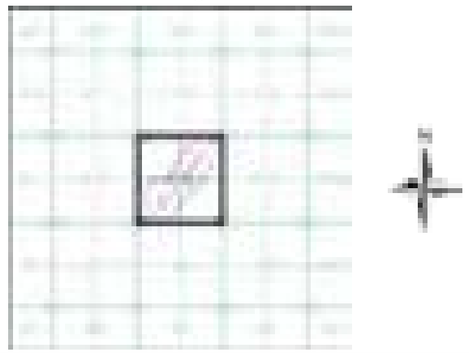
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

Site at 305700, 205660

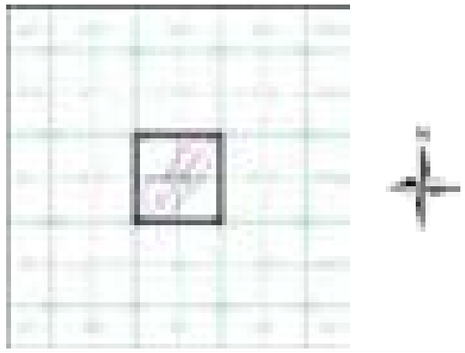
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

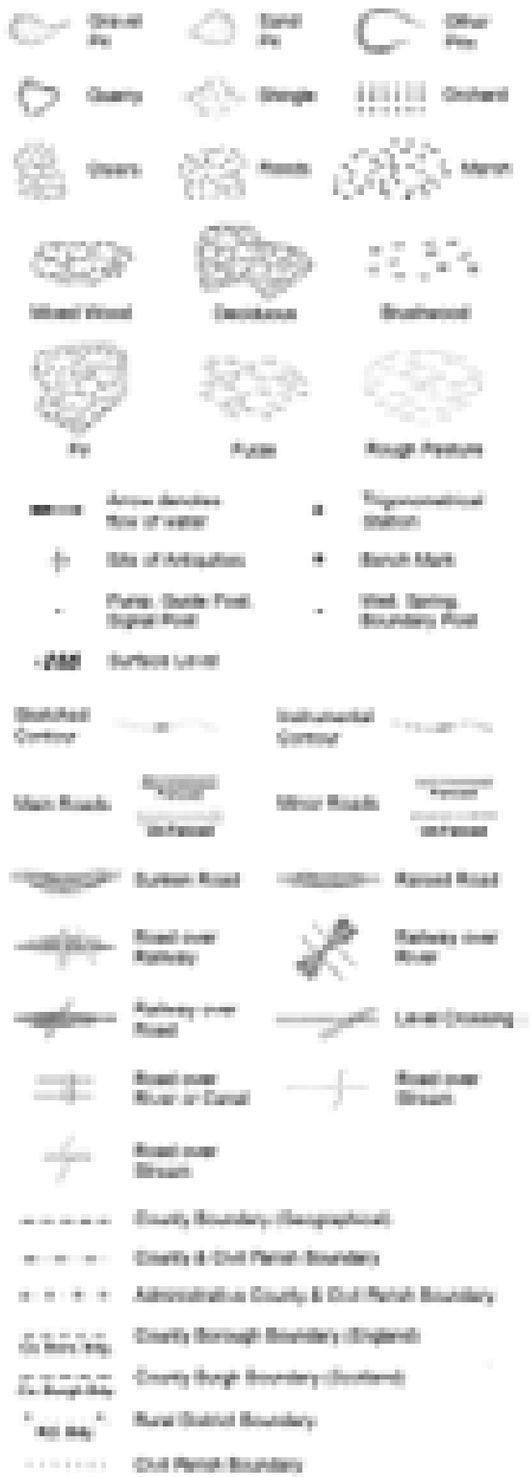
Site Details

Site at 305700, 205660

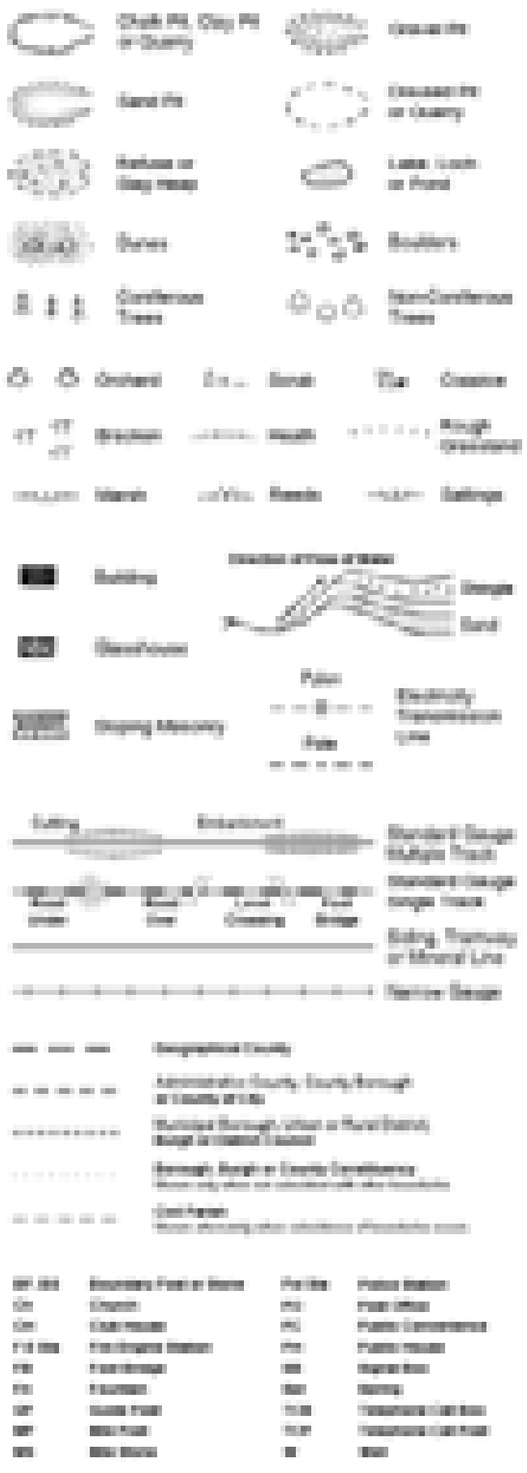
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000

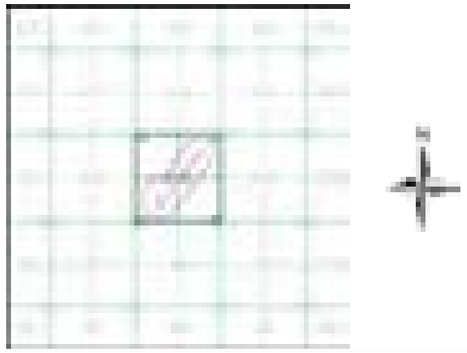


1:10,000 Raster Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Brecknockshire	1:10,560	1884	2
Glamorganshire	1:10,560	1885	3
Glamorganshire	1:10,560	1901	4
Brecknockshire	1:10,560	1905	5
Brecknockshire	1:10,560	1922	6
Glamorganshire	1:10,560	1922	7
Brecknockshire	1:10,560	1938	8
Historical Aerial Photography	1:10,560	1945	9
Glamorganshire	1:10,560	1951	10
Brecknockshire	1:10,560	1951	11
Ordnance Survey Plan	1:10,000	1964 - 1965	12
Ordnance Survey Plan	1:10,000	1969	13
Ordnance Survey Plan	1:10,000	1970 - 1979	14
Ordnance Survey Plan	1:10,000	1982 - 1989	15
Ordnance Survey Plan	1:10,000	1990 - 1992	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Historical Map - Slice A



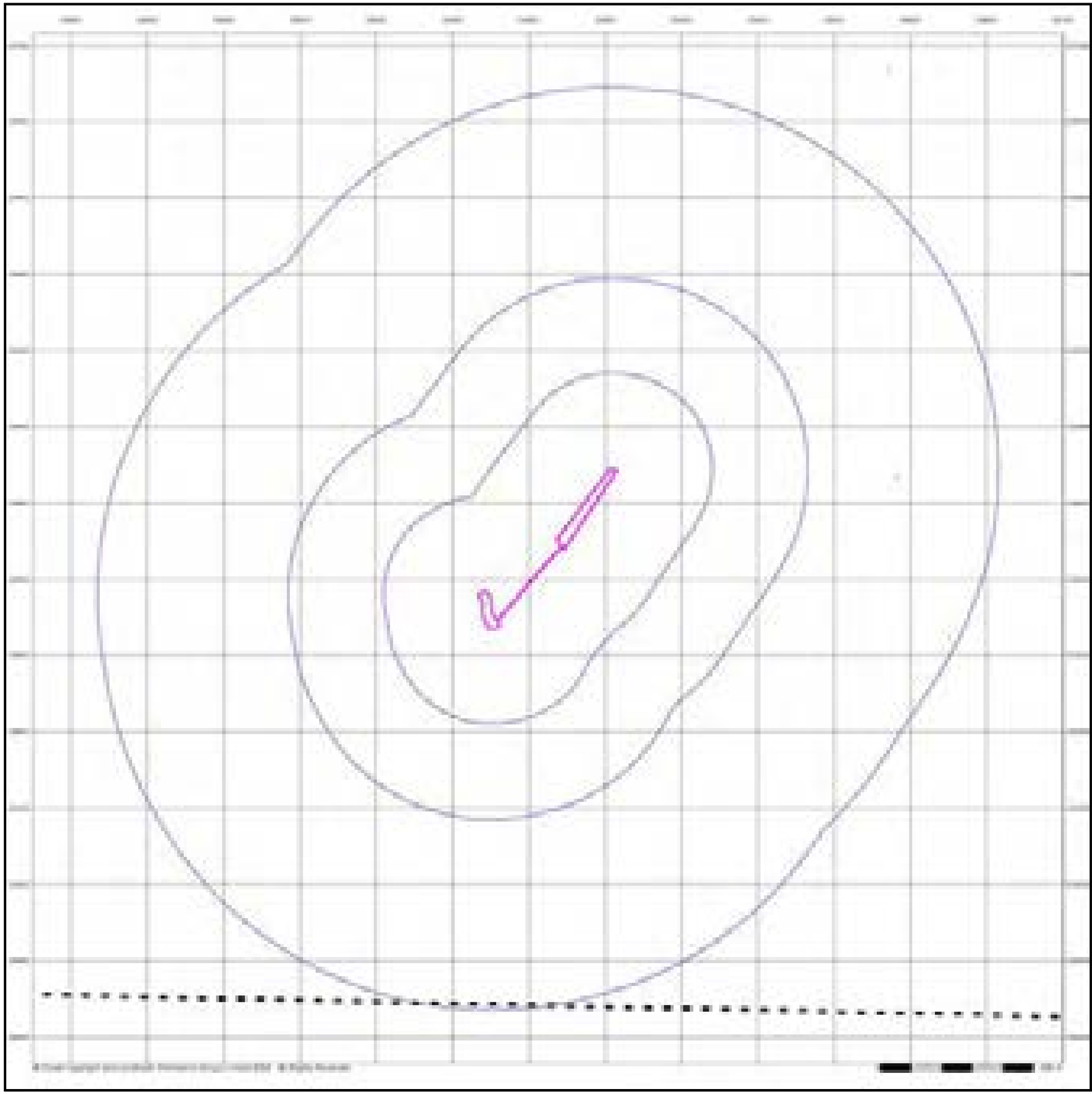
Order Details

Order Number: 346644556_1_1
Customer Ref: TF-24-211-CA JR
National Grid Reference: 305650, 205680
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Site at 305700, 205660

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



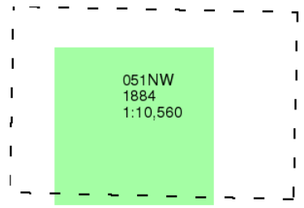
Brecknockshire

Published 1884

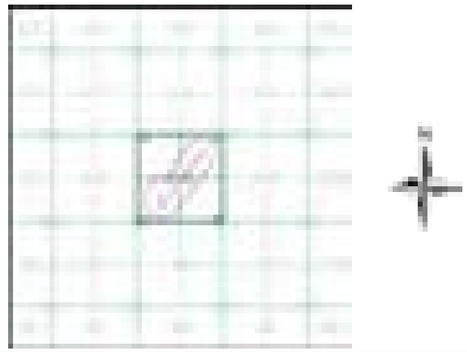
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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



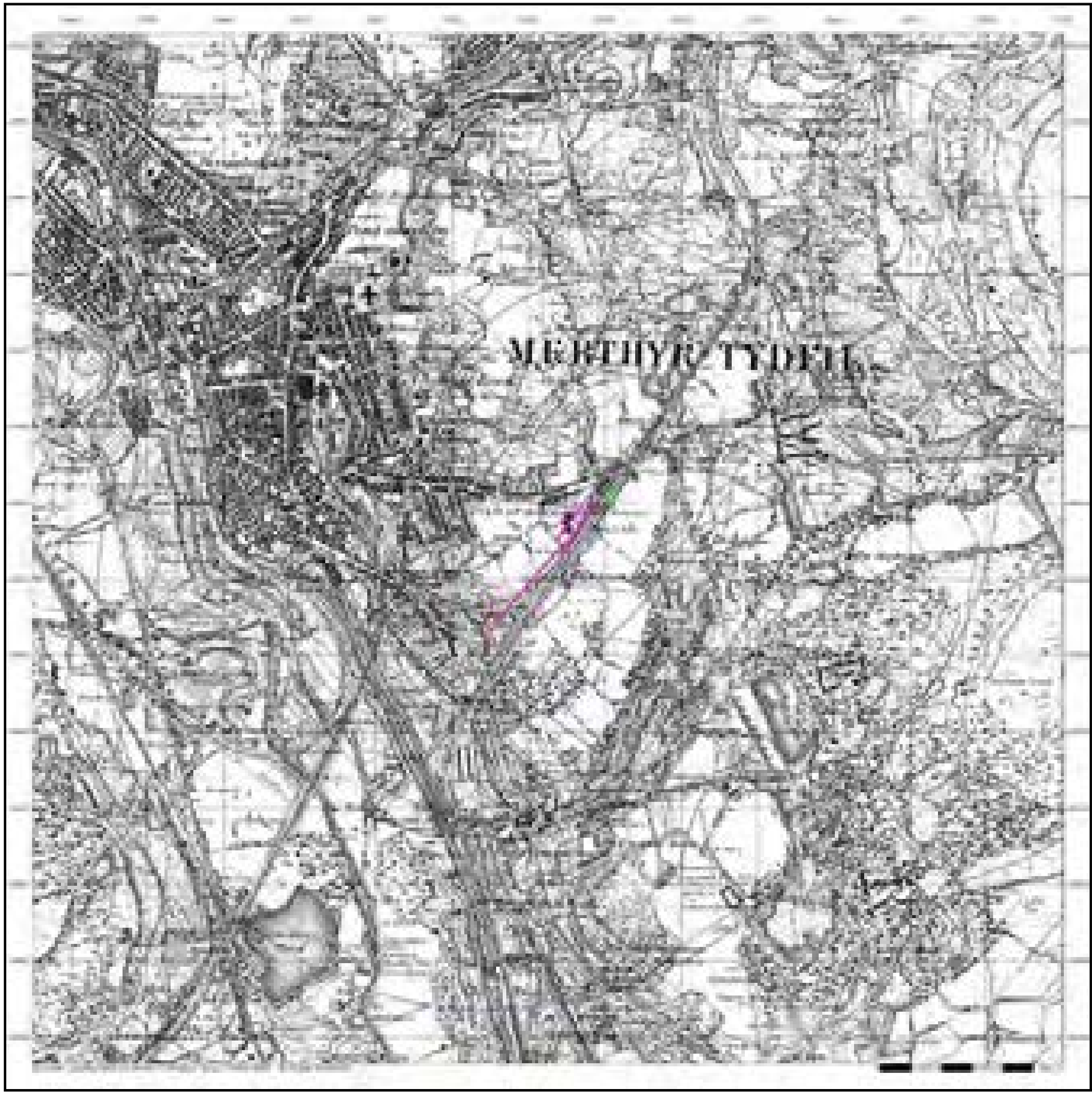
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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



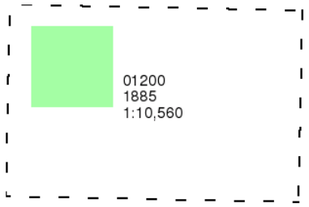
Glamorganshire

Published 1885

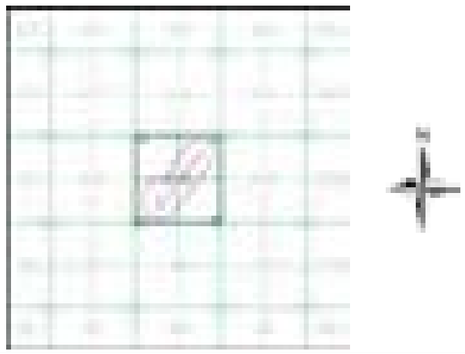
Source map scale - 1:10,560

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:	346644556_1_1
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Slice:	A
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Search Buffer (m):	1000

Site Details

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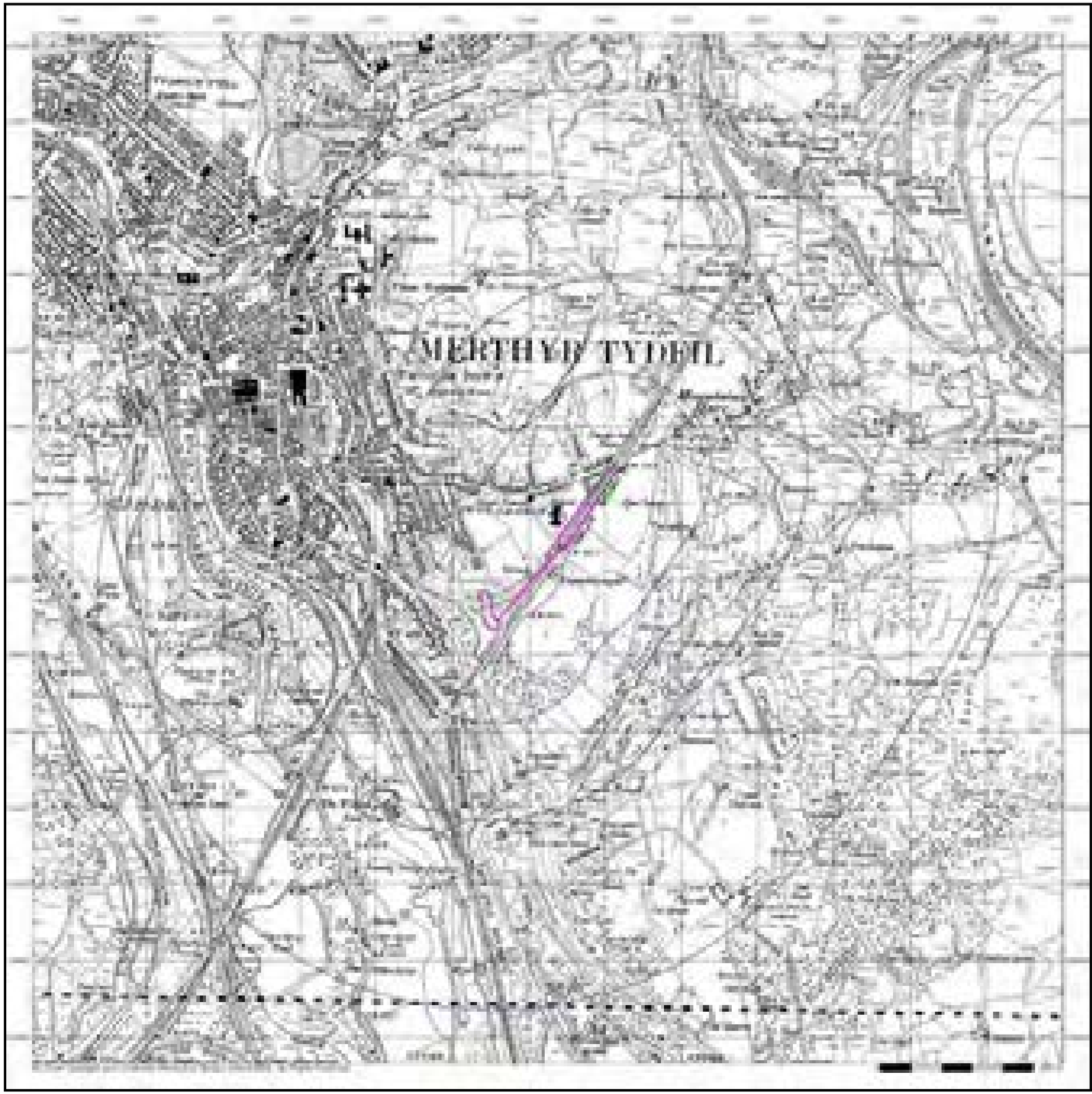


Glamorganshire

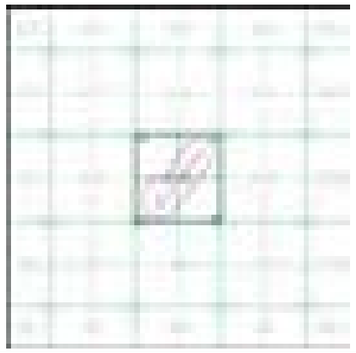
Published 1901

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)

Historical Map - Slice A



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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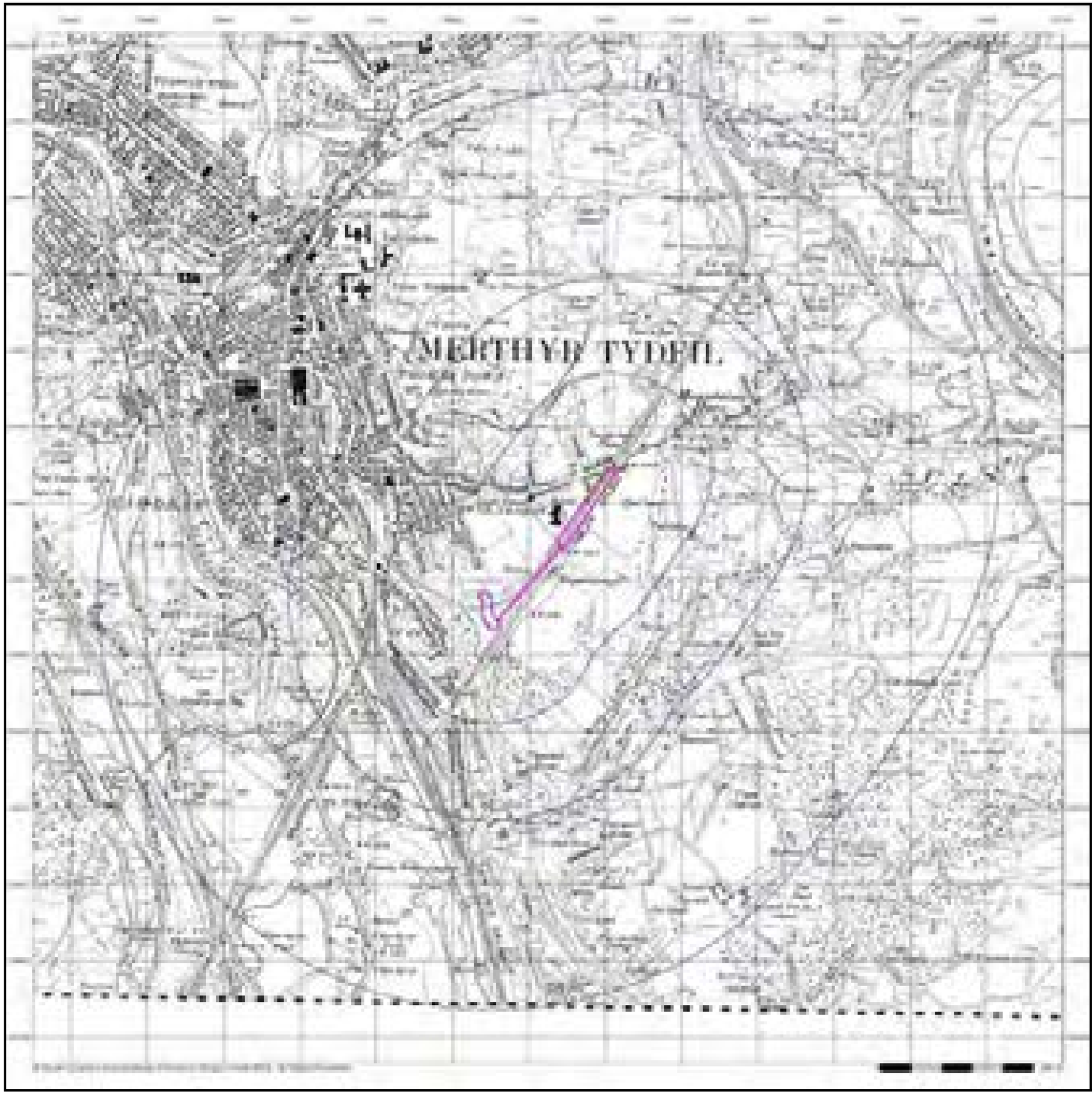


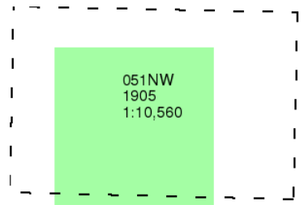
Brecknockshire

Published 1905

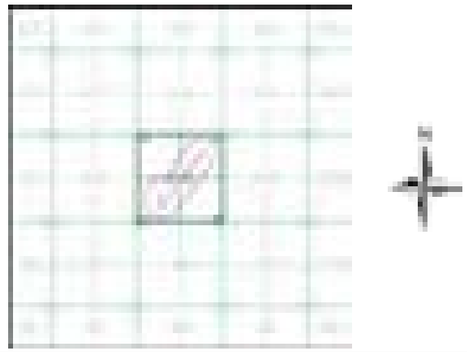
Source map scale - 1:10,560

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



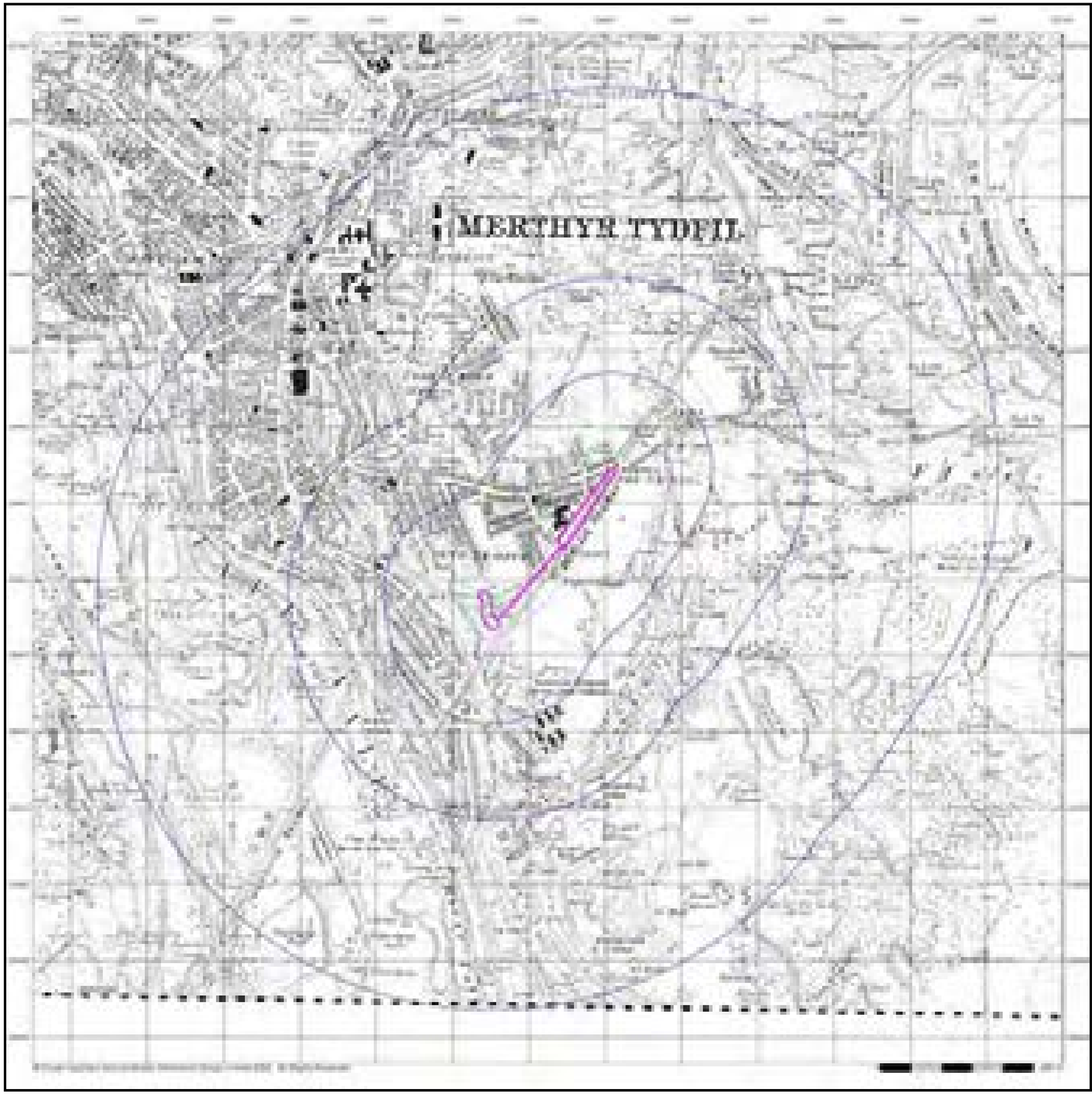
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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



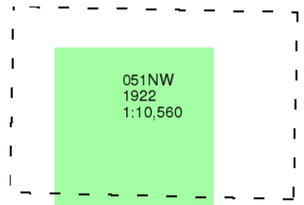
Brecknockshire

Published 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)



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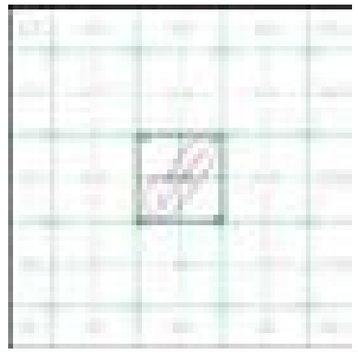

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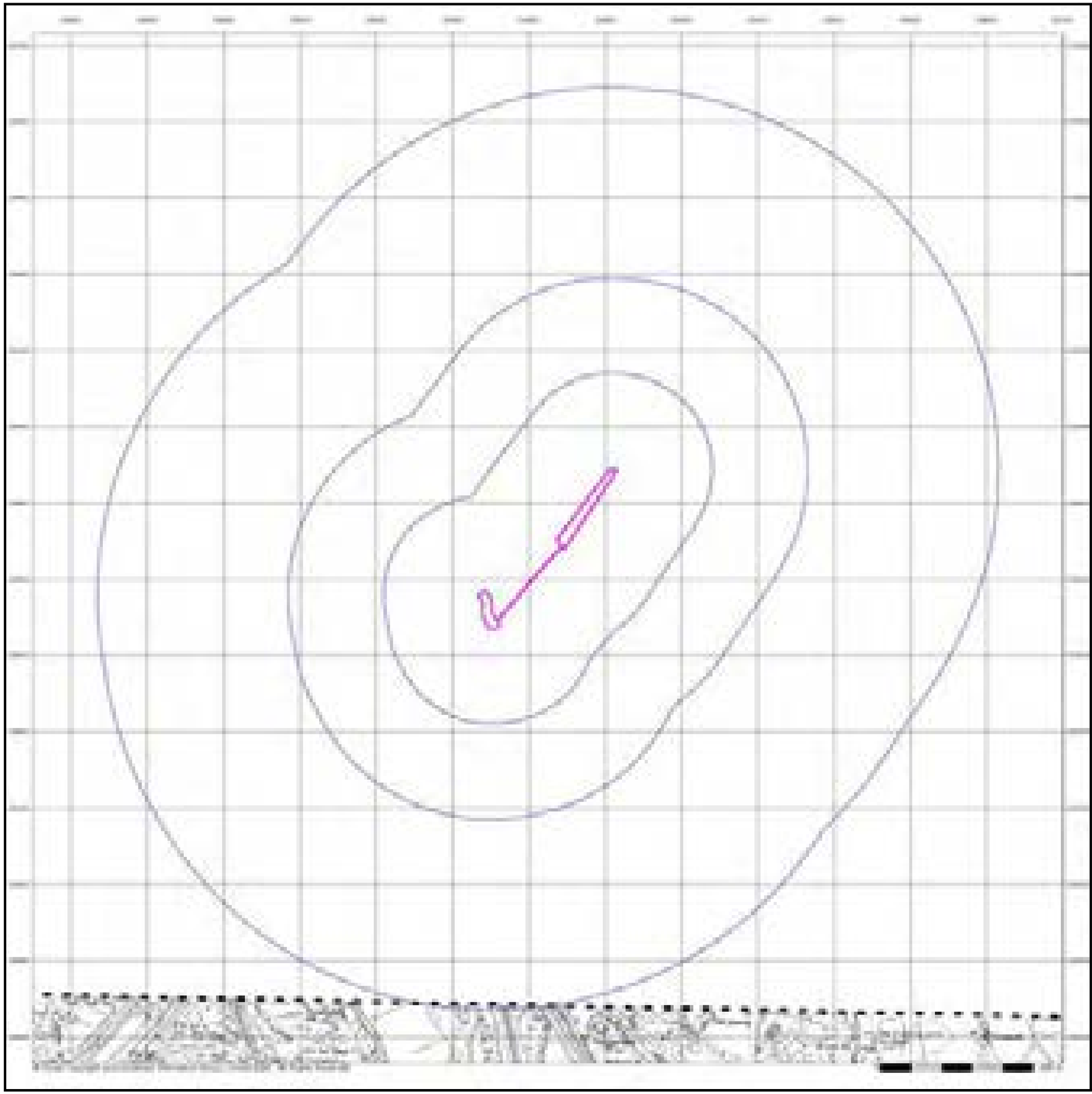

Glamorganshire

Published 1922

Source map scale - 1:10,560

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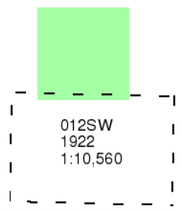
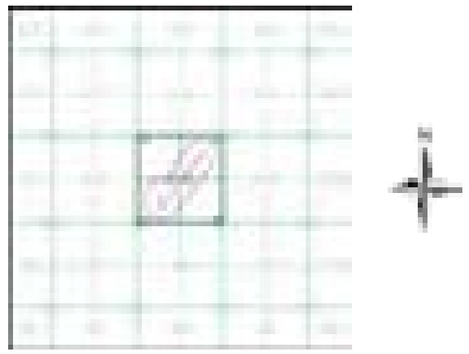


Historical Map - Slice A



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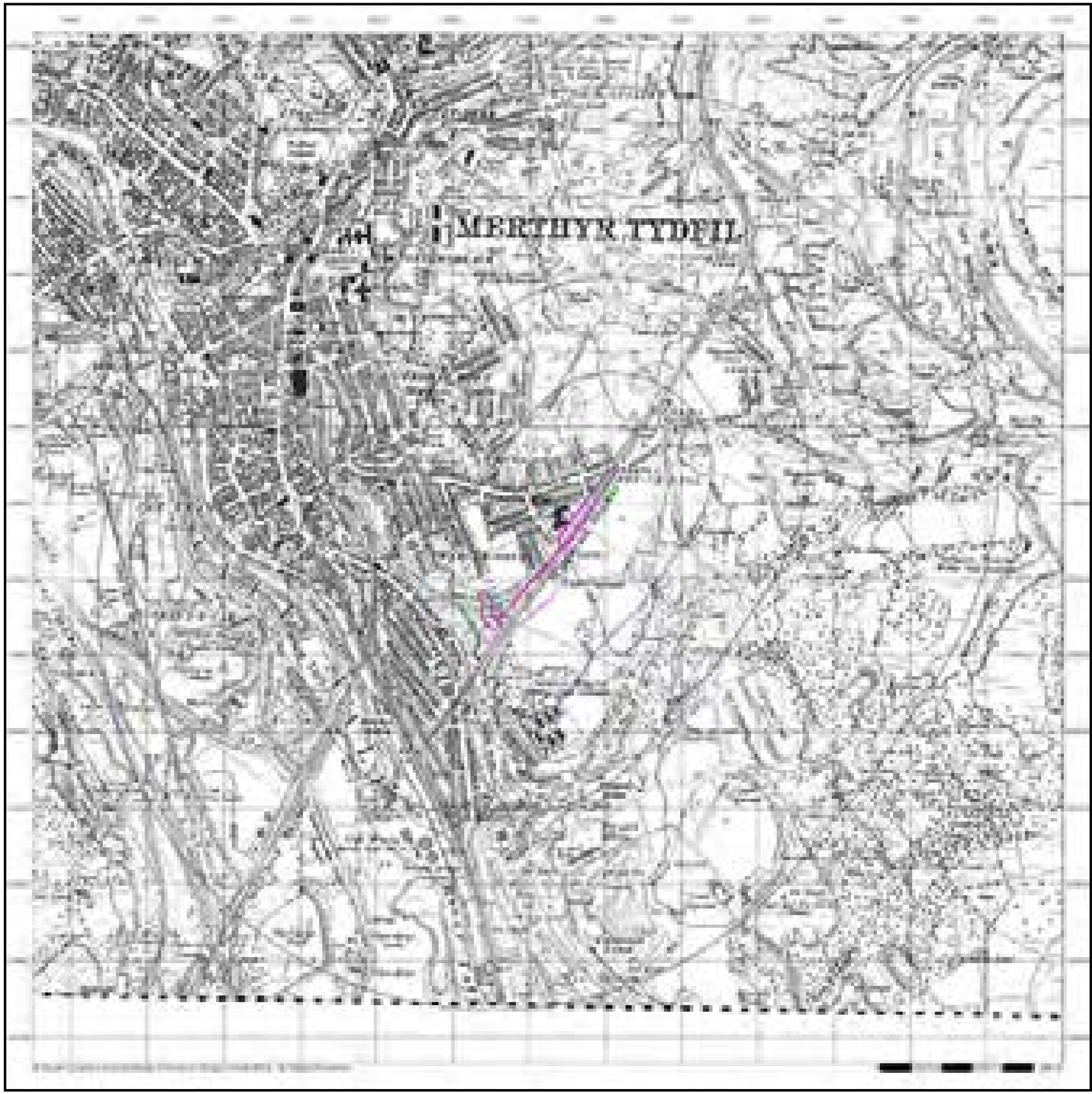

Brecknockshire

Published 1938

Source map scale - 1:10,560

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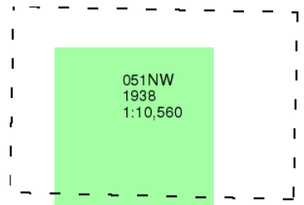
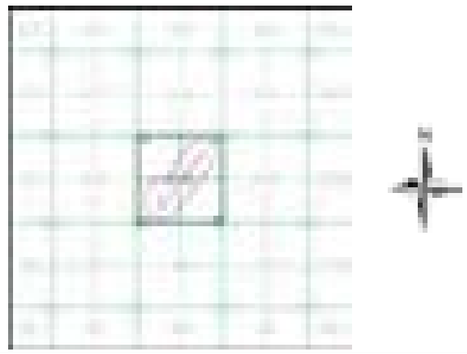
Map Name(s) and Date(s)



Historical Map - Slice A



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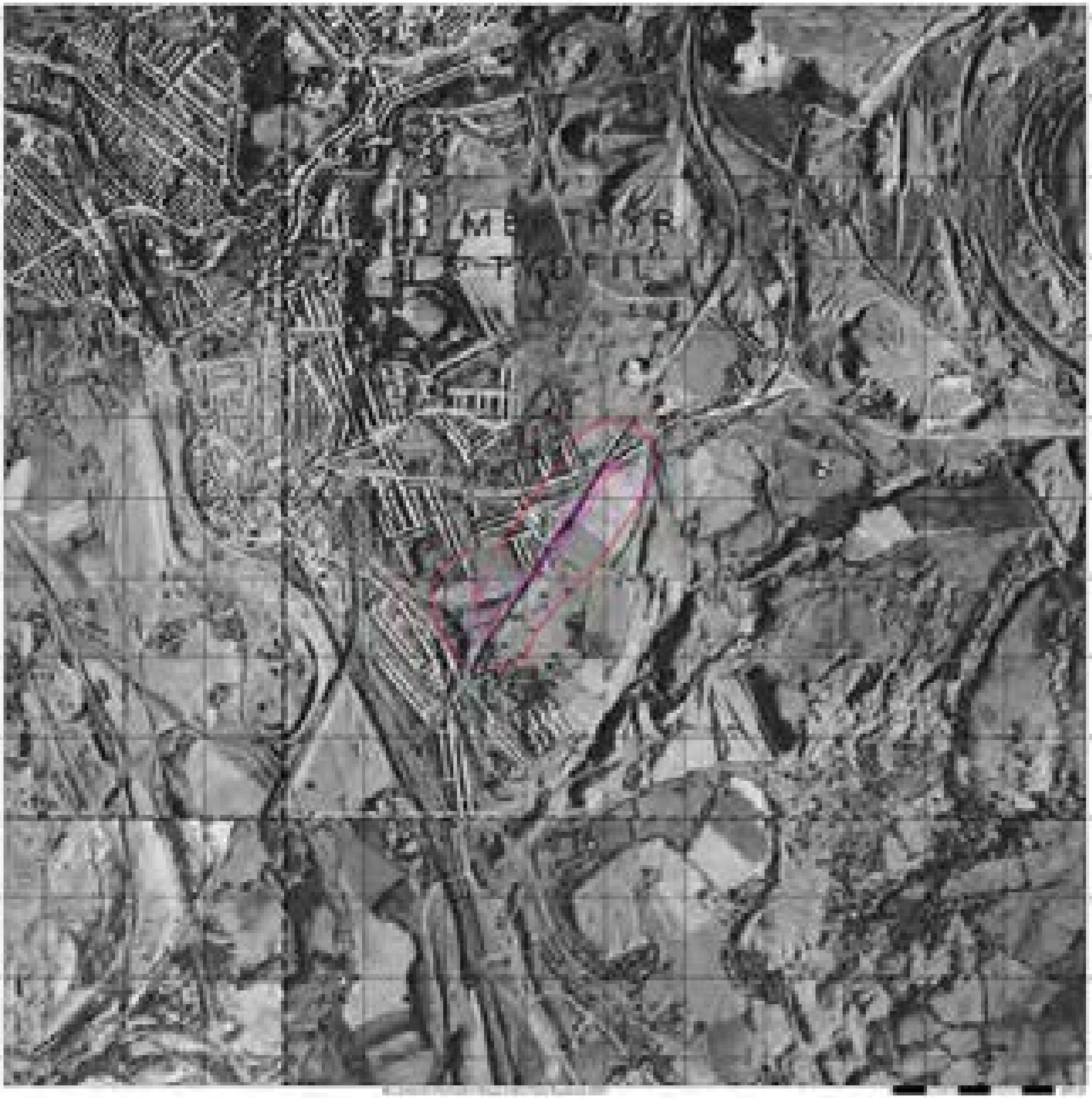

Historical Aerial Photography

Published 1945

Source map scale - 1:10,560

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

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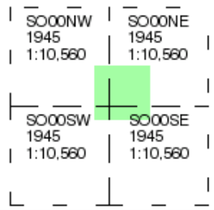
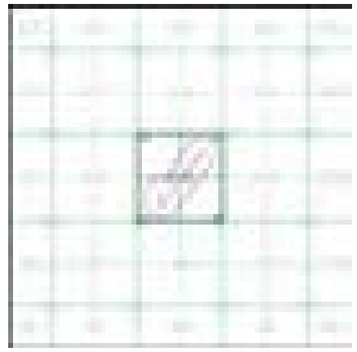
Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

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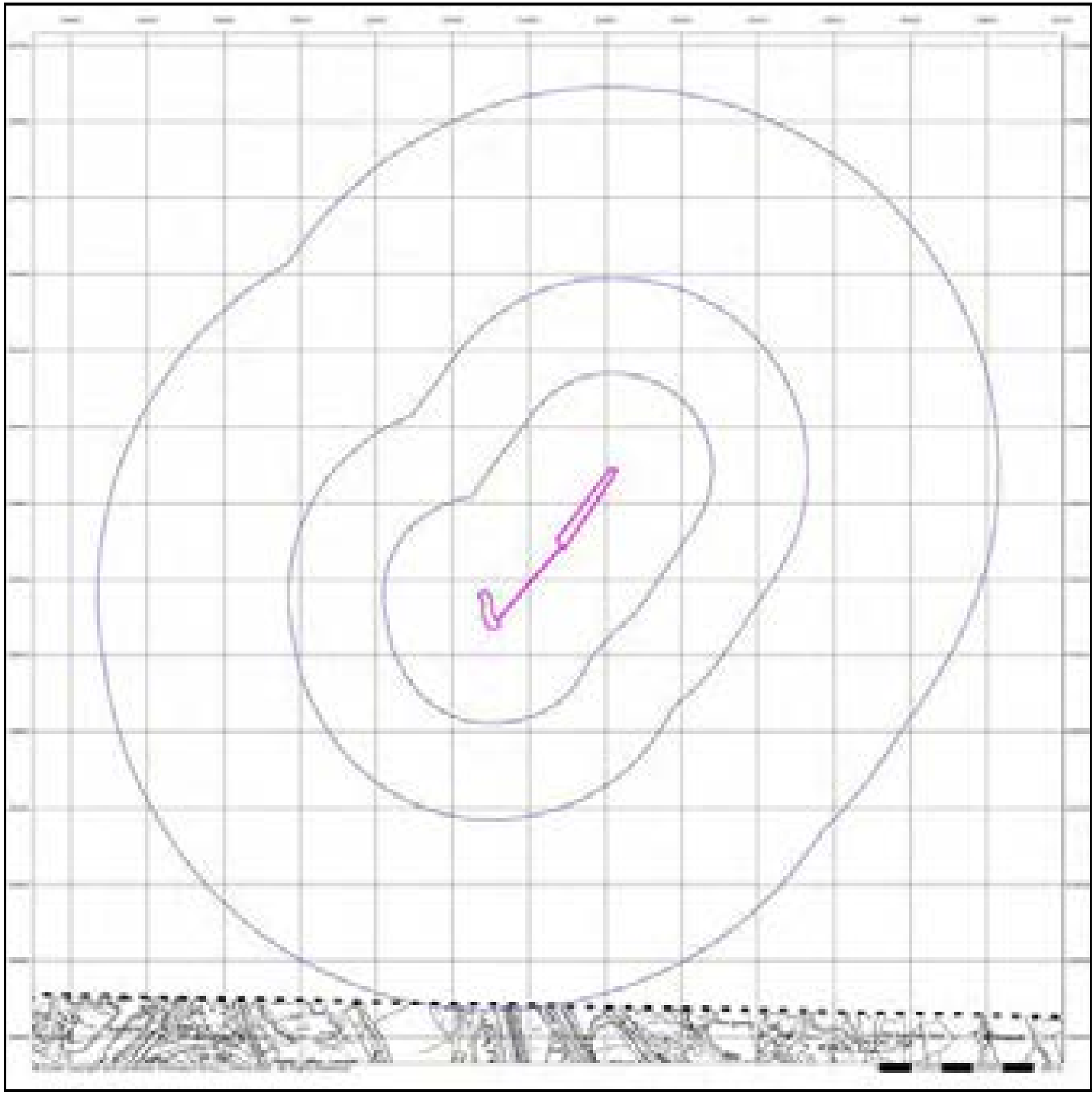

Glamorganshire

Published 1951

Source map scale - 1:10,560

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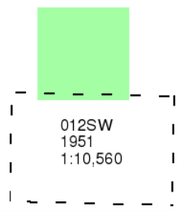
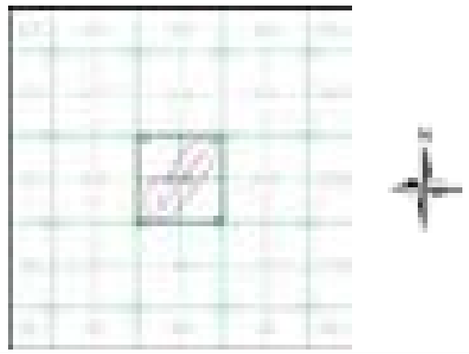
Map Name(s) and Date(s)



Historical Map - Slice A



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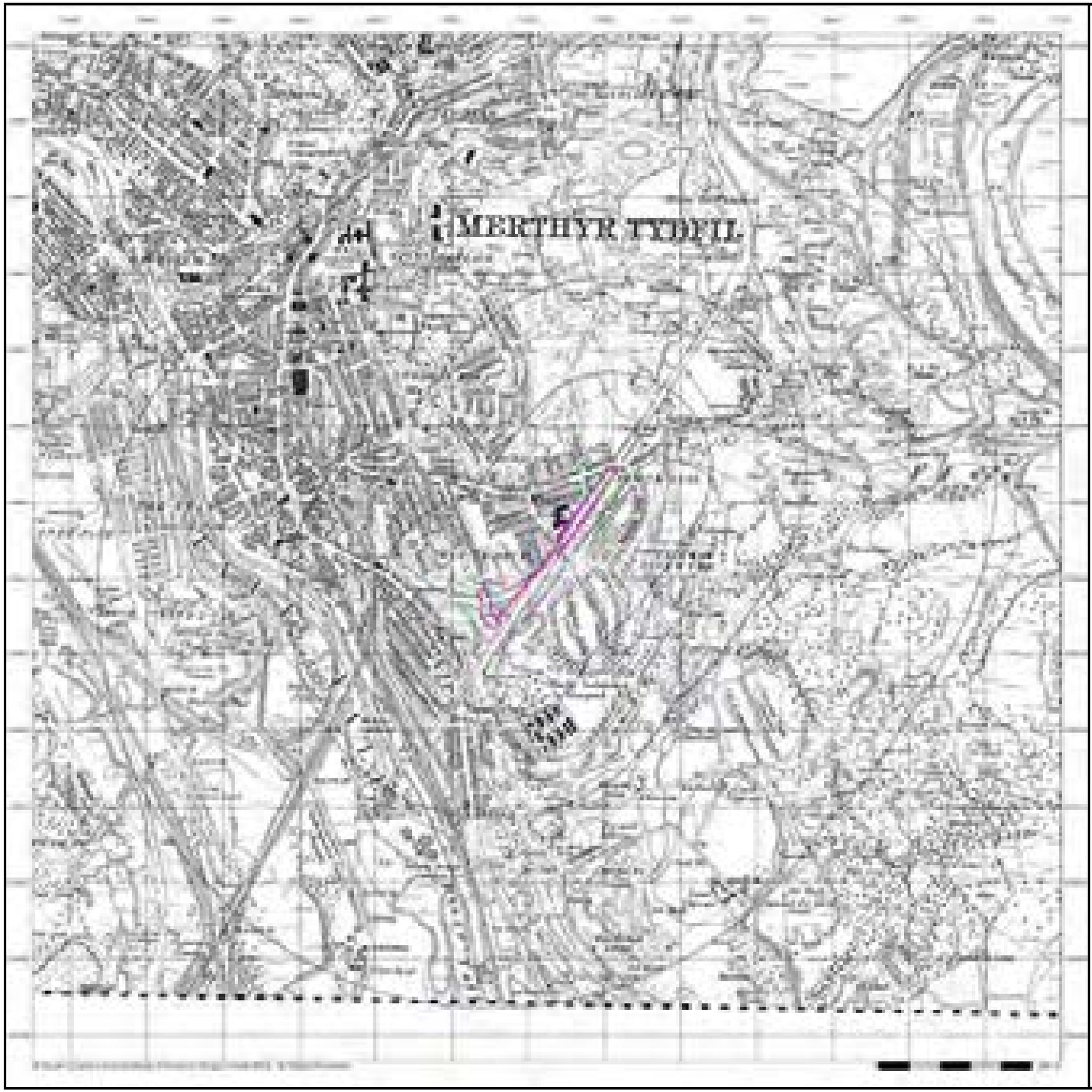

Brecknockshire

Published 1951

Source map scale - 1:10,560

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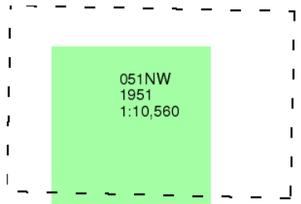
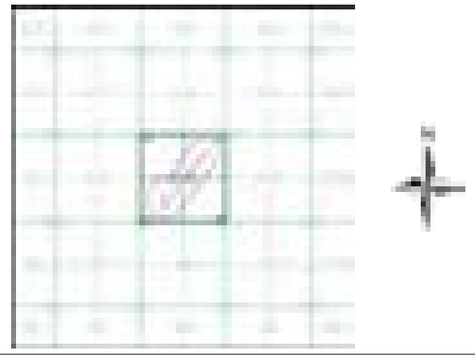


Historical Map - Slice A



Order Details

Order Number:	346644556_1_1
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Site Details

Site at 305700, 205660

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

Ordnance Survey Plan

Published 1964 - 1965

Source map scale - 1:10,000

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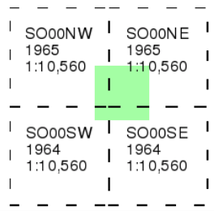
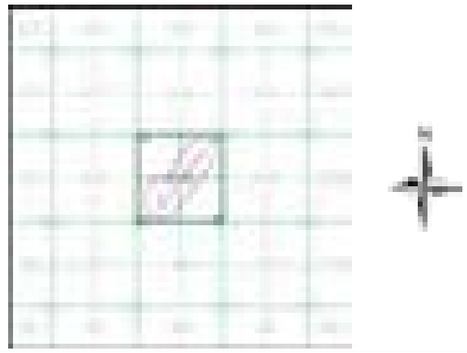
Map Name(s) and Date(s)



Historical Map - Slice A



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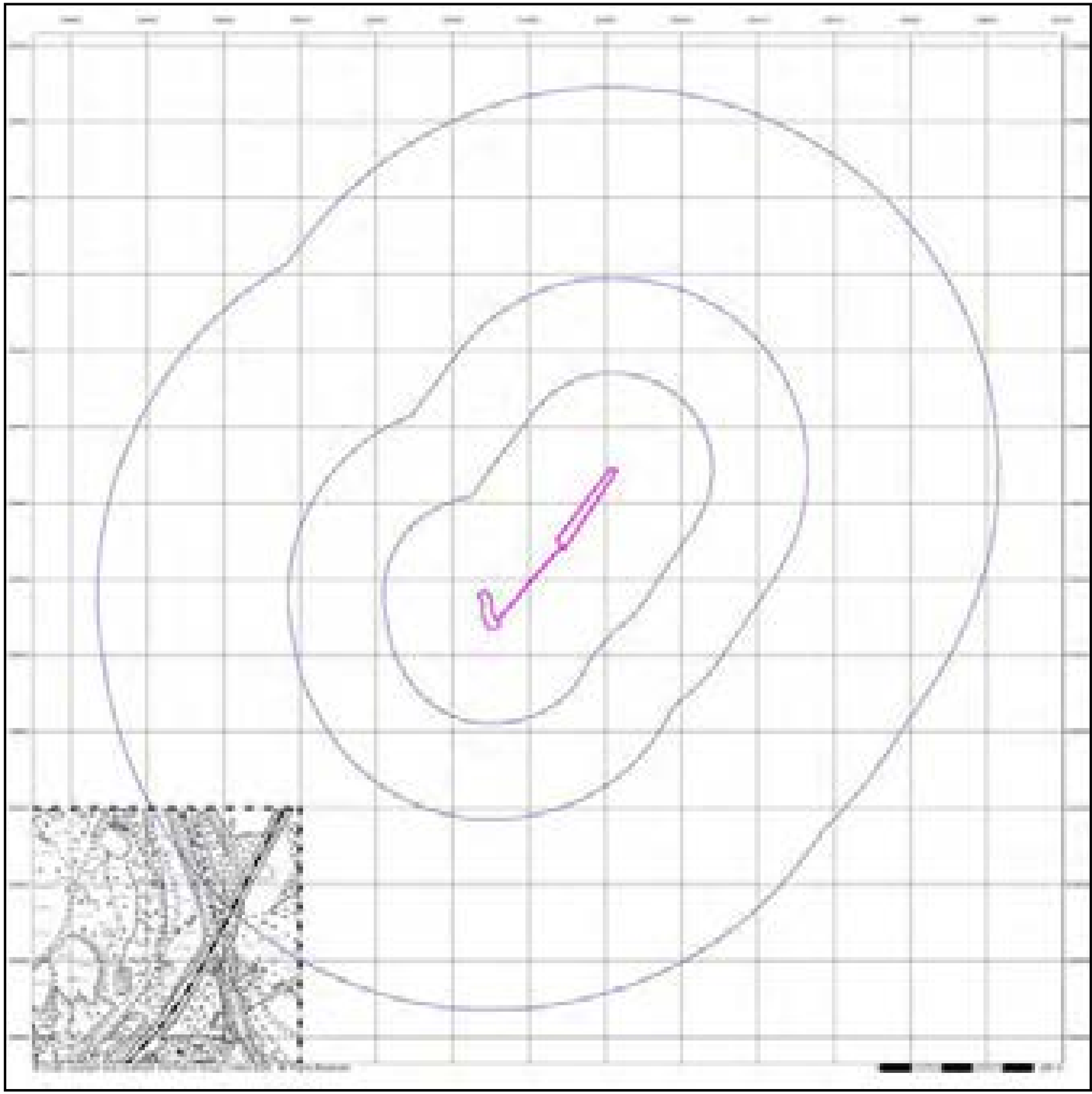

Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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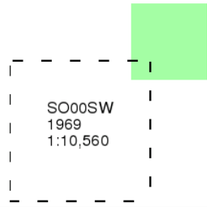
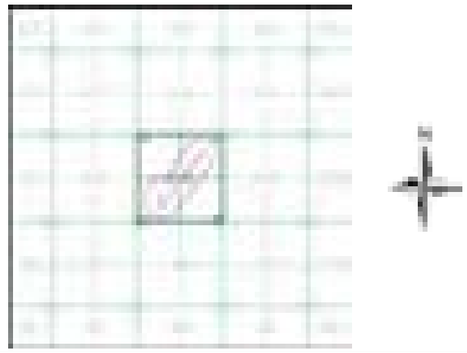


Historical Map - Slice A



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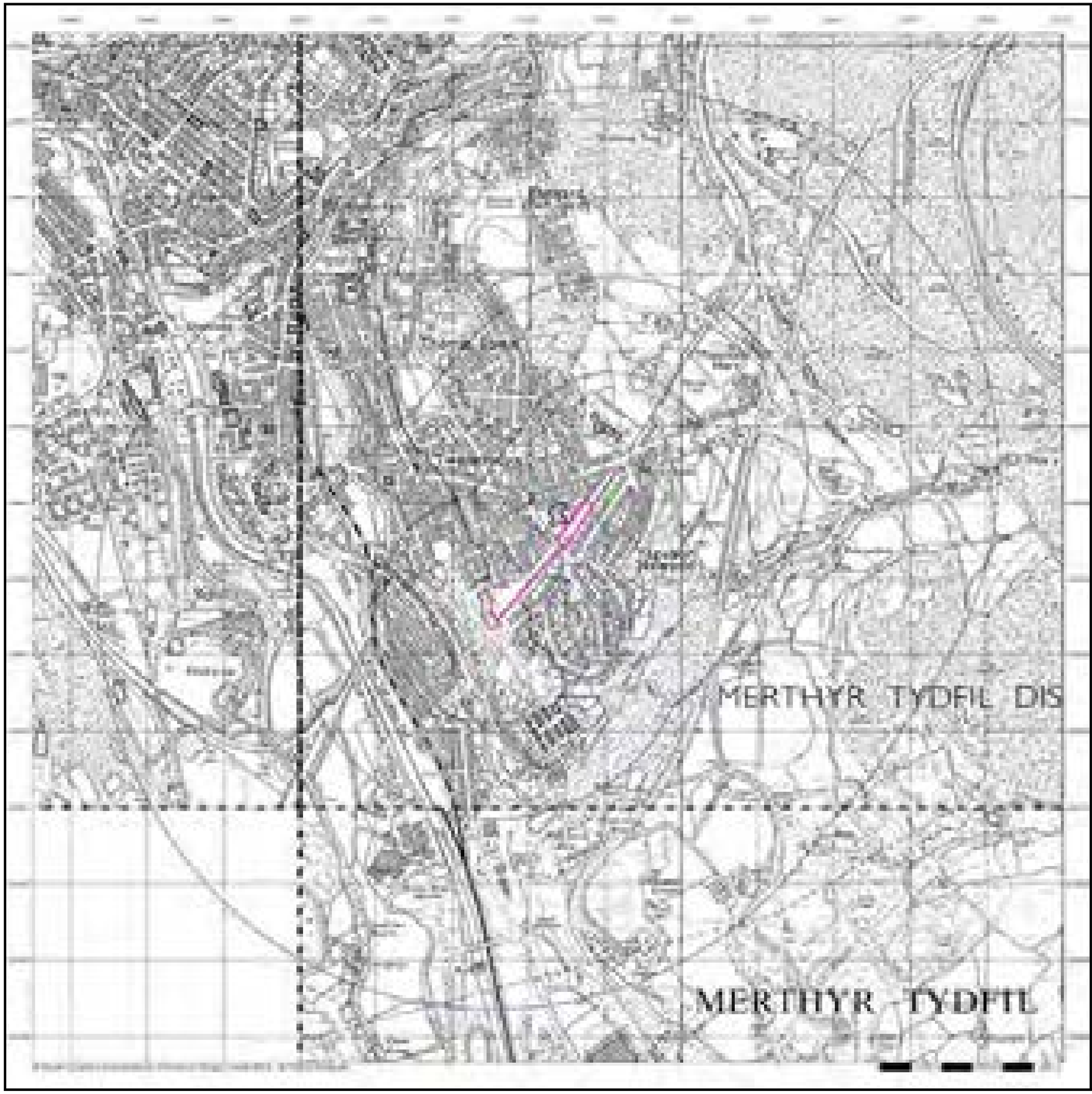

Ordnance Survey Plan

Published 1970 - 1979

Source map scale - 1:10,000

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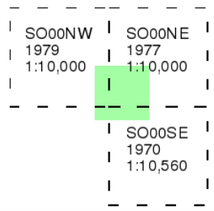
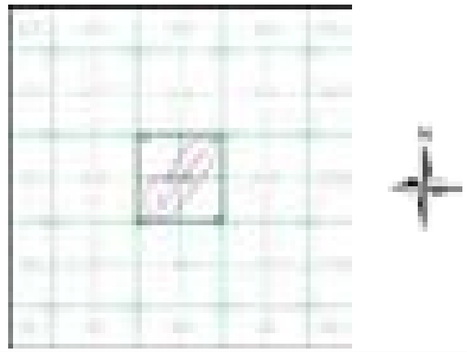
Map Name(s) and Date(s)



Historical Map - Slice A



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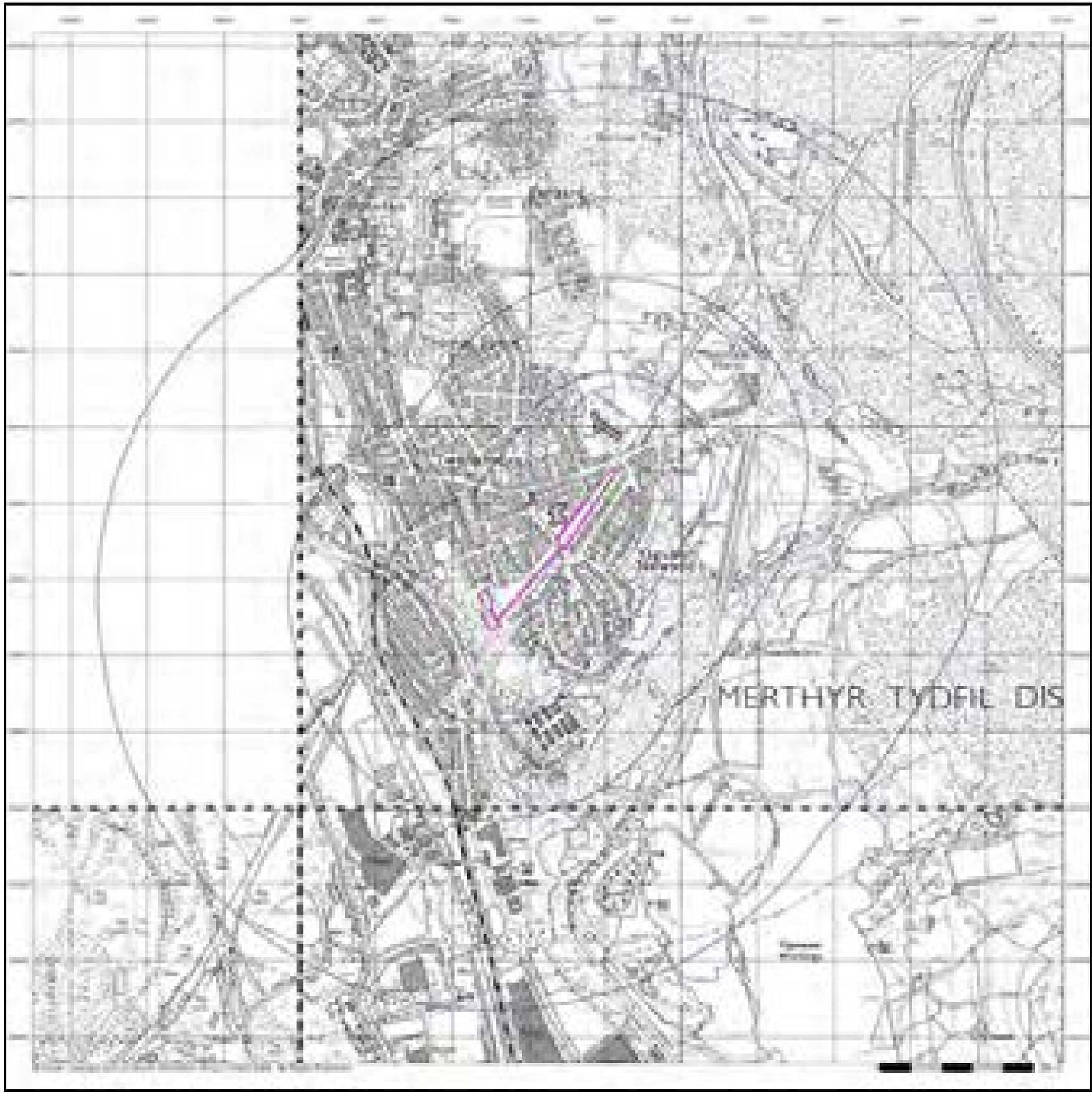

Ordnance Survey Plan

Published 1982 - 1989

Source map scale - 1:10,000

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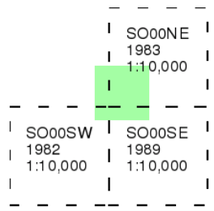
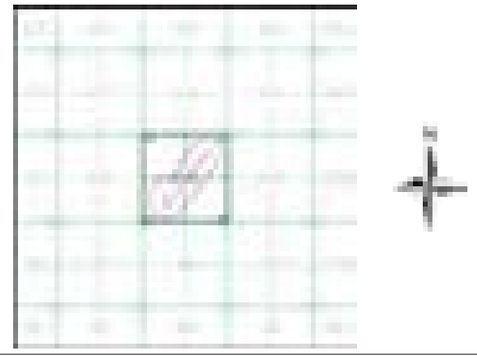
Map Name(s) and Date(s)



Historical Map - Slice A



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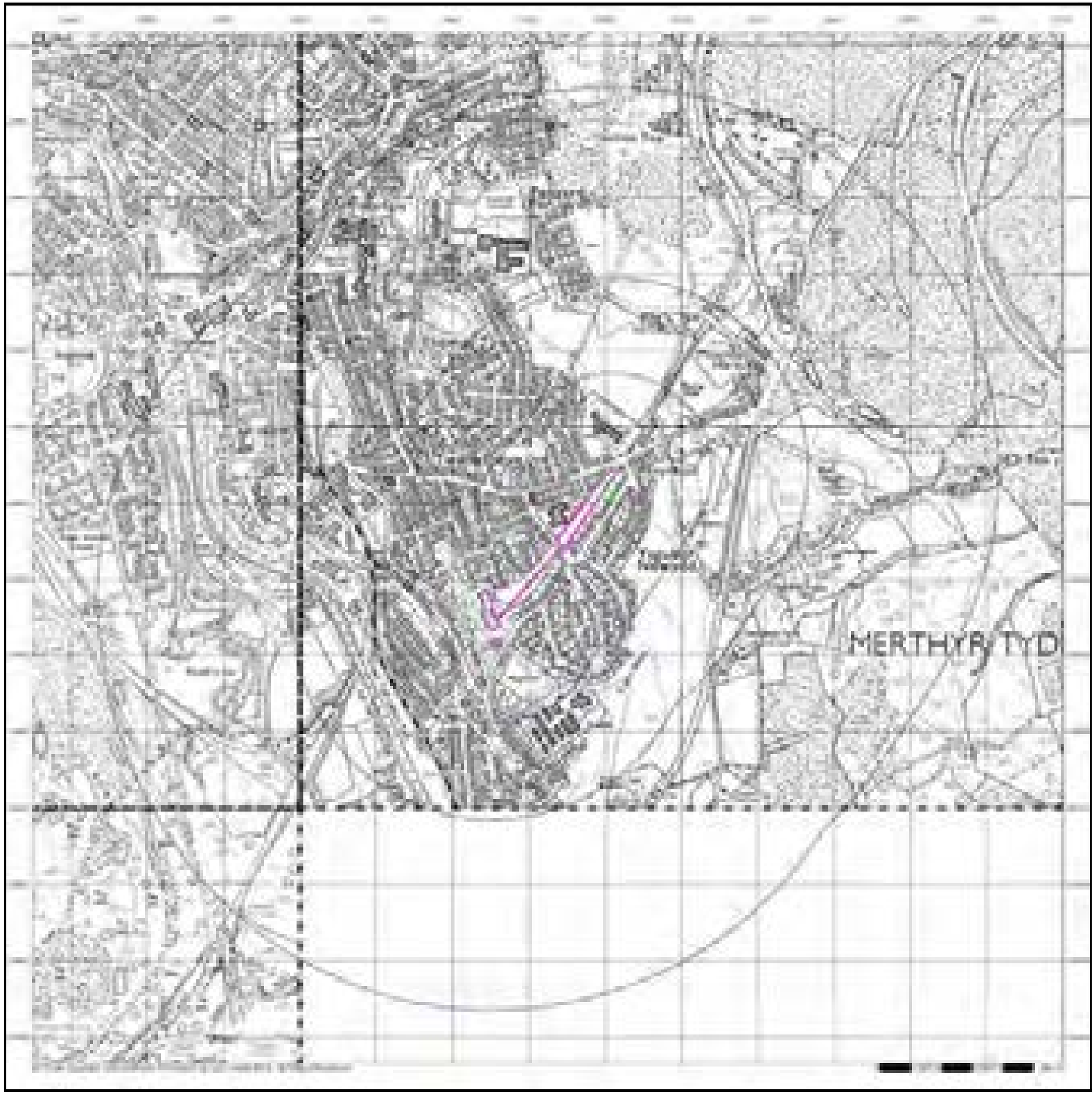
Web: www.envirocheck.co.uk



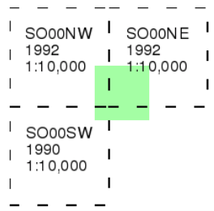
Ordnance Survey Plan

Published 1990 - 1992

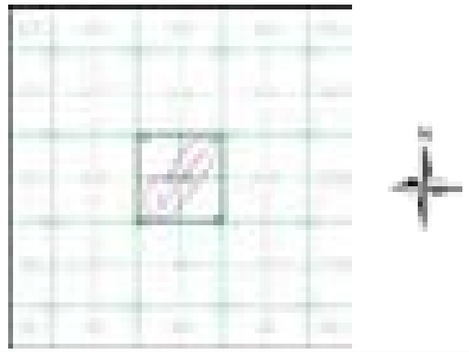
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



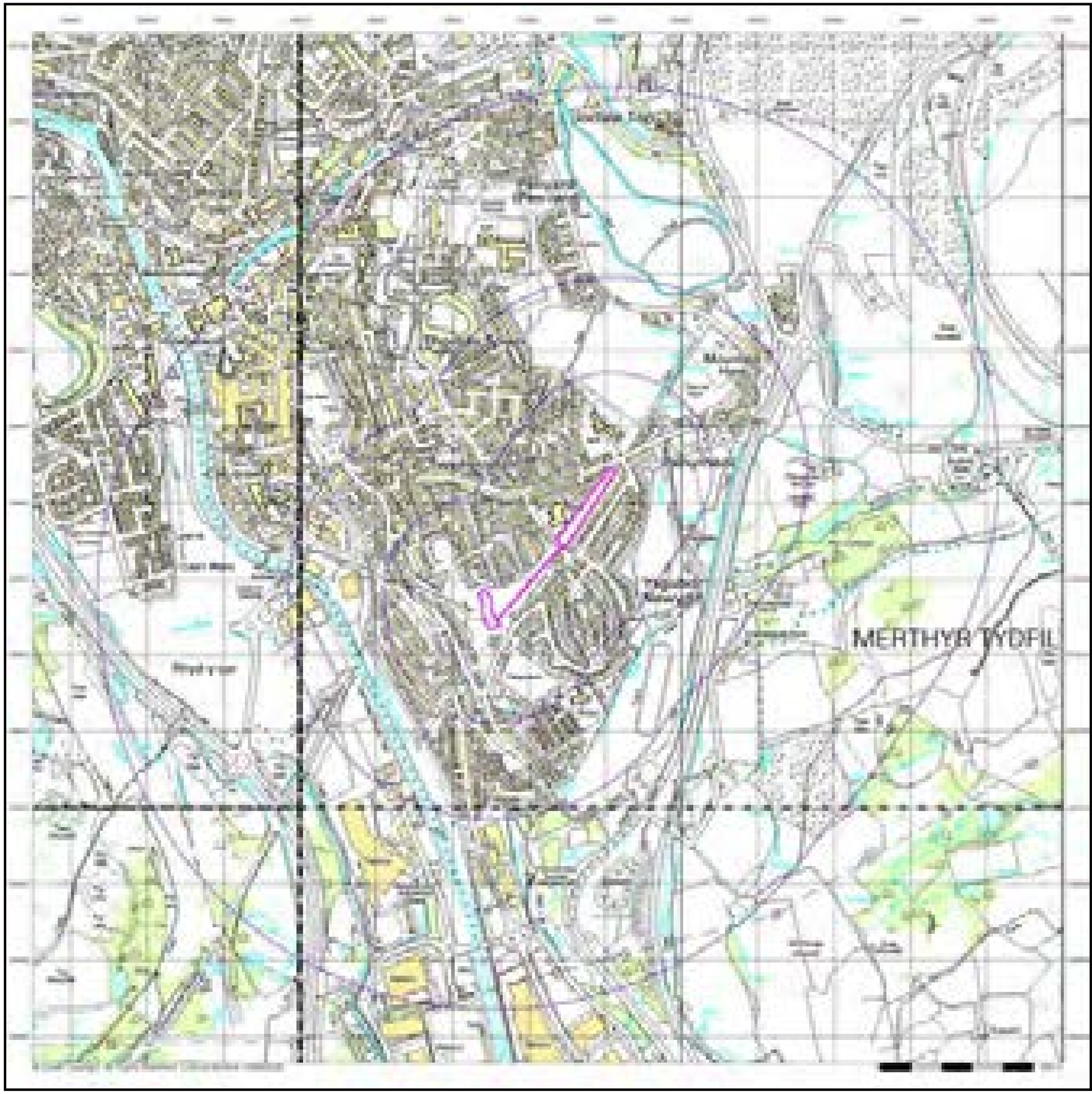
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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



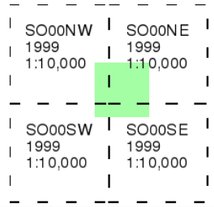
10k Raster Mapping

Published 1999

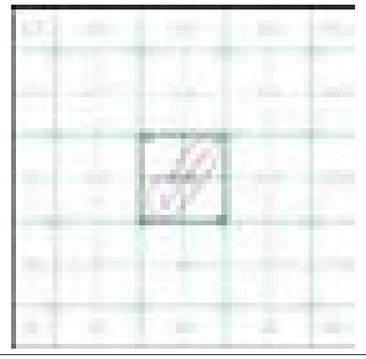
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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

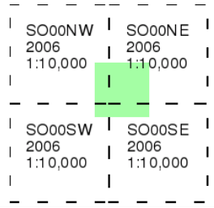
10k Raster Mapping

Published 2006

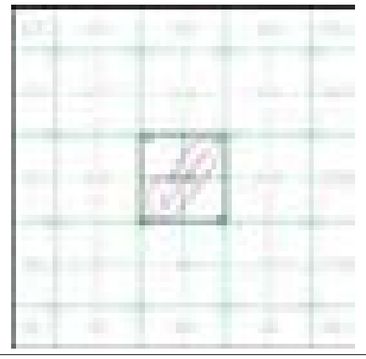
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	346644556_1_1
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Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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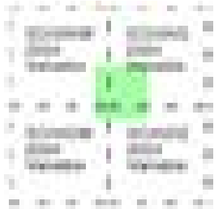
VectorMap Local

Published 2024

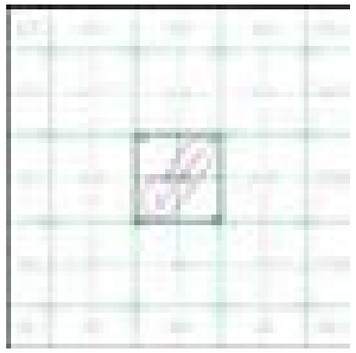
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	346644556_1_1
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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	SWLCM	South Wales Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWLCM	South Wales Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	BISHM	Bishopston Mudstone Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	TWR	Twrch Sandstone Formation	Sandstone and Conglomerate, Interbedded	Not Supplied - Namurian
		Rock Segments		
		Faults		

Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**231**
Map Name:	**Merthyr Tydfil**
Map Date:	**1979**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A

Order Details:

Order Number:	346644556_1_1
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Artificial Ground and Landslip

Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A

Order Details:

Order Number:	346644556_1_1
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National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
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Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A

Order Details:

Order Number:	346644556_1_1
Customer Reference:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
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Search Buffer (m):	1000

Site Details:

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Bedrock and Faults

Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

Order Details:

Order Number:	346644556_1_1
Customer Reference:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details:

Site at 305700, 205660

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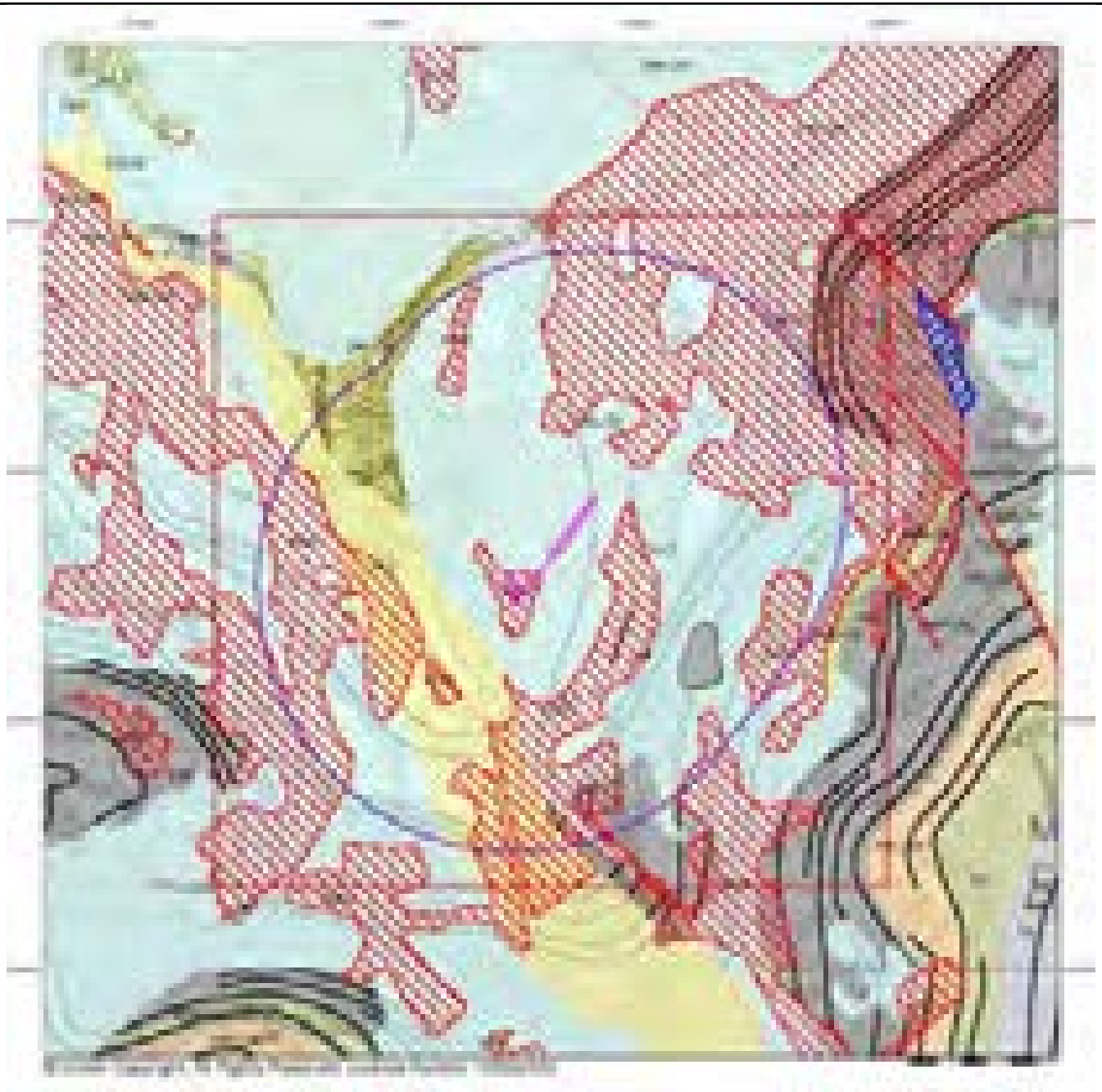

Combined Surface Geology

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

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

Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A

Order Details:

Order Number:	346644556_1_1
Customer Reference:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details:

Site at 305700, 205660

Groundwater Vulnerability

Site Sensitivity Context Map - Slice A

Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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

Bedrock Aquifer Designation

Site Sensitivity Context Map - Slice A

Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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Superficial Aquifer Designation

Site Sensitivity Context Map - Slice A

Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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Source Protection Zones

Site Sensitivity Context Map - Slice A

Order Details

Order Number:	346644556_1_1
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Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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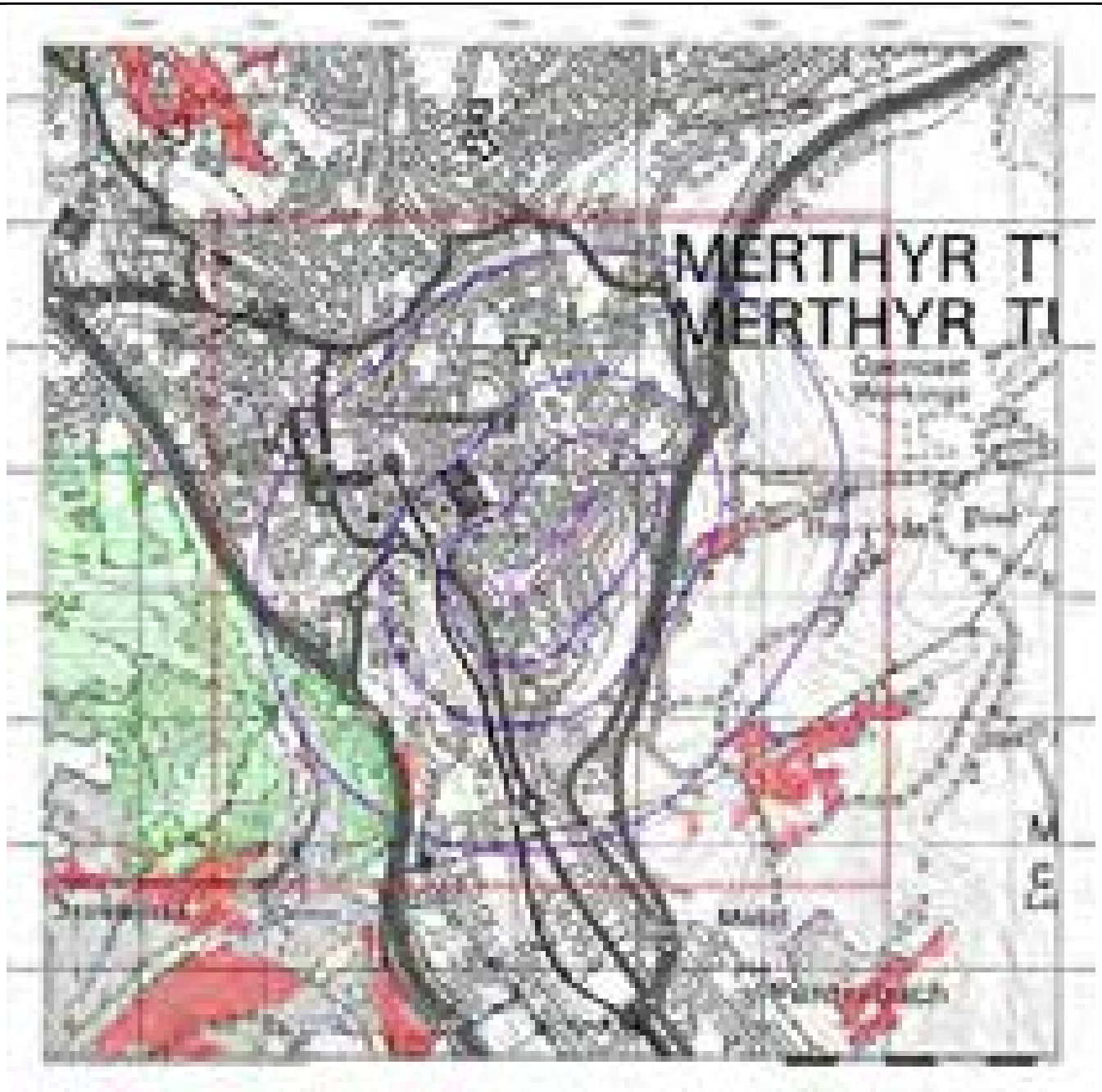
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Sensitive Land Uses

Site Sensitivity Context Map - Slice A

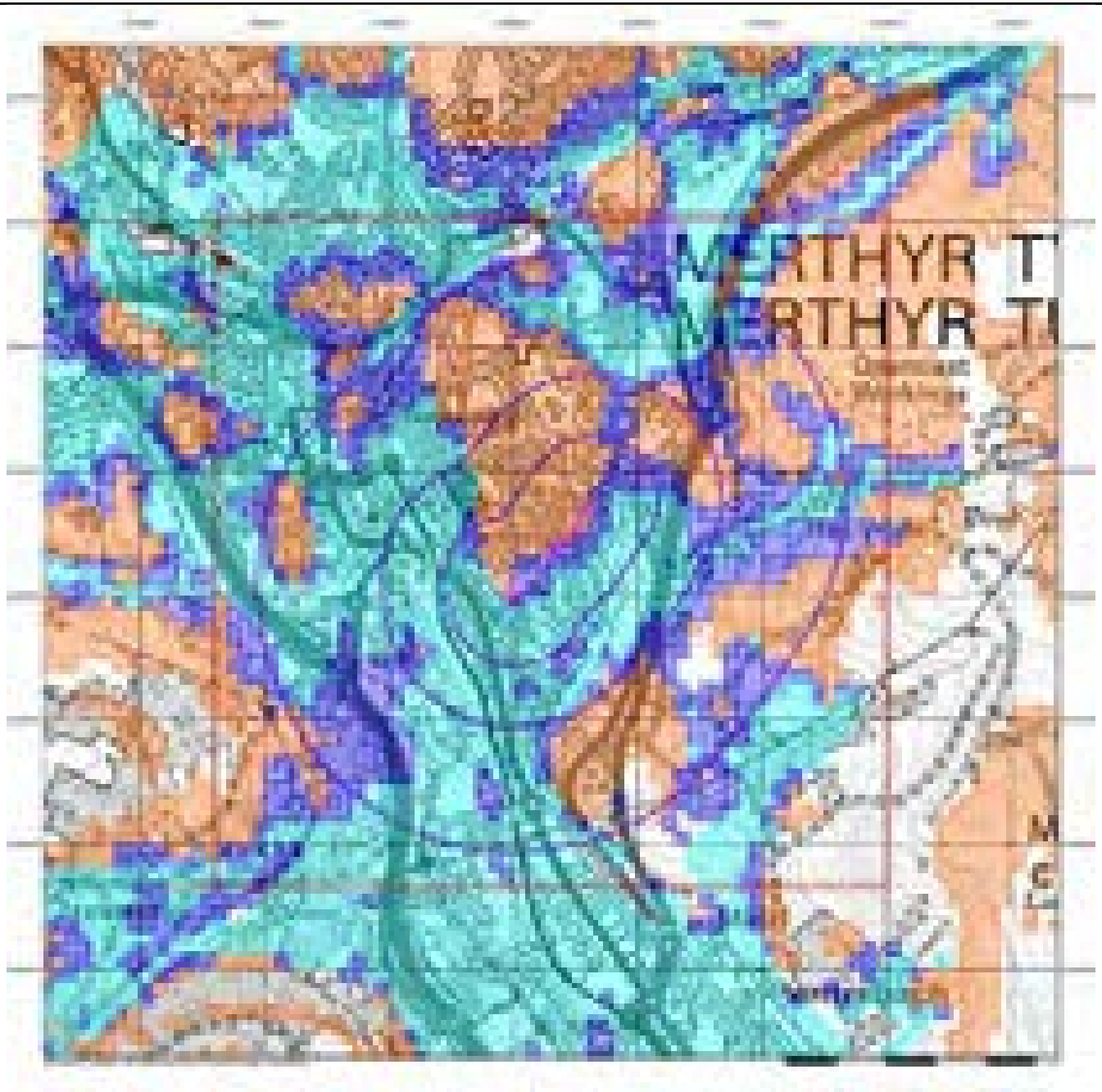
Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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



BGS Flood GFS Data

Site Sensitivity Context Map - Slice A

Order Details

Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

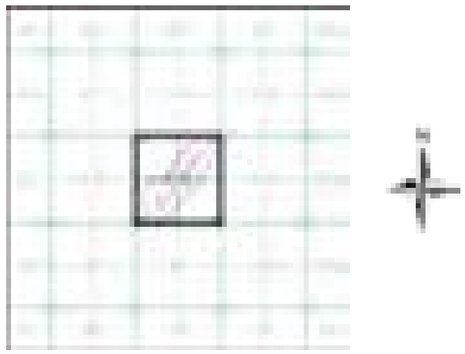
Site Details

Site at 305700, 205660

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

terra firma

Site Sensitivity Map - Segment A13



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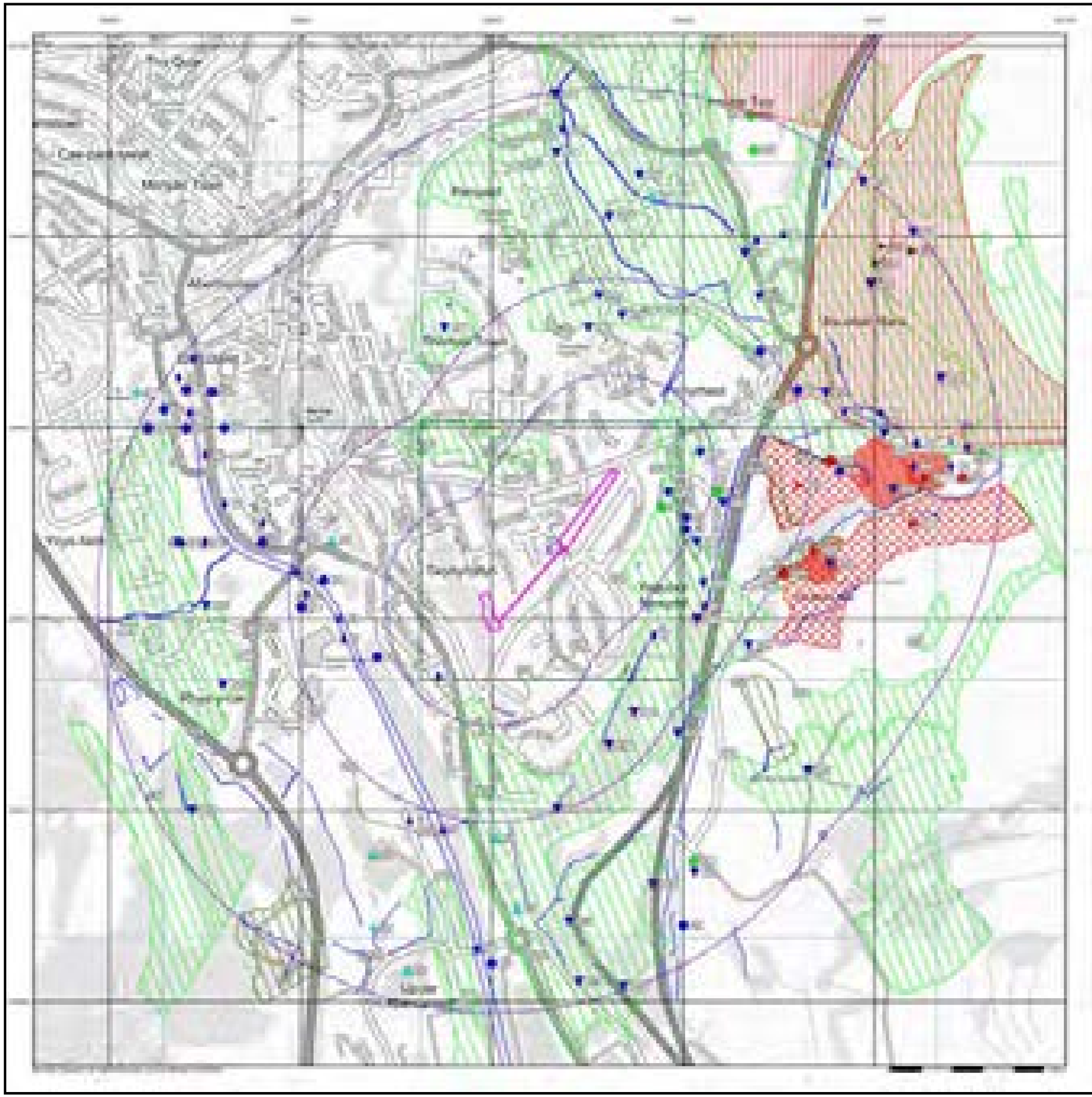
Order Number:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Plot Buffer (m):	100

Site Details

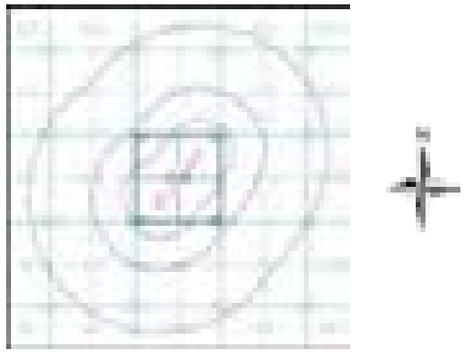
Site at 305700, 205660

Landmark

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



Site Sensitivity Map - Slice A



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National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

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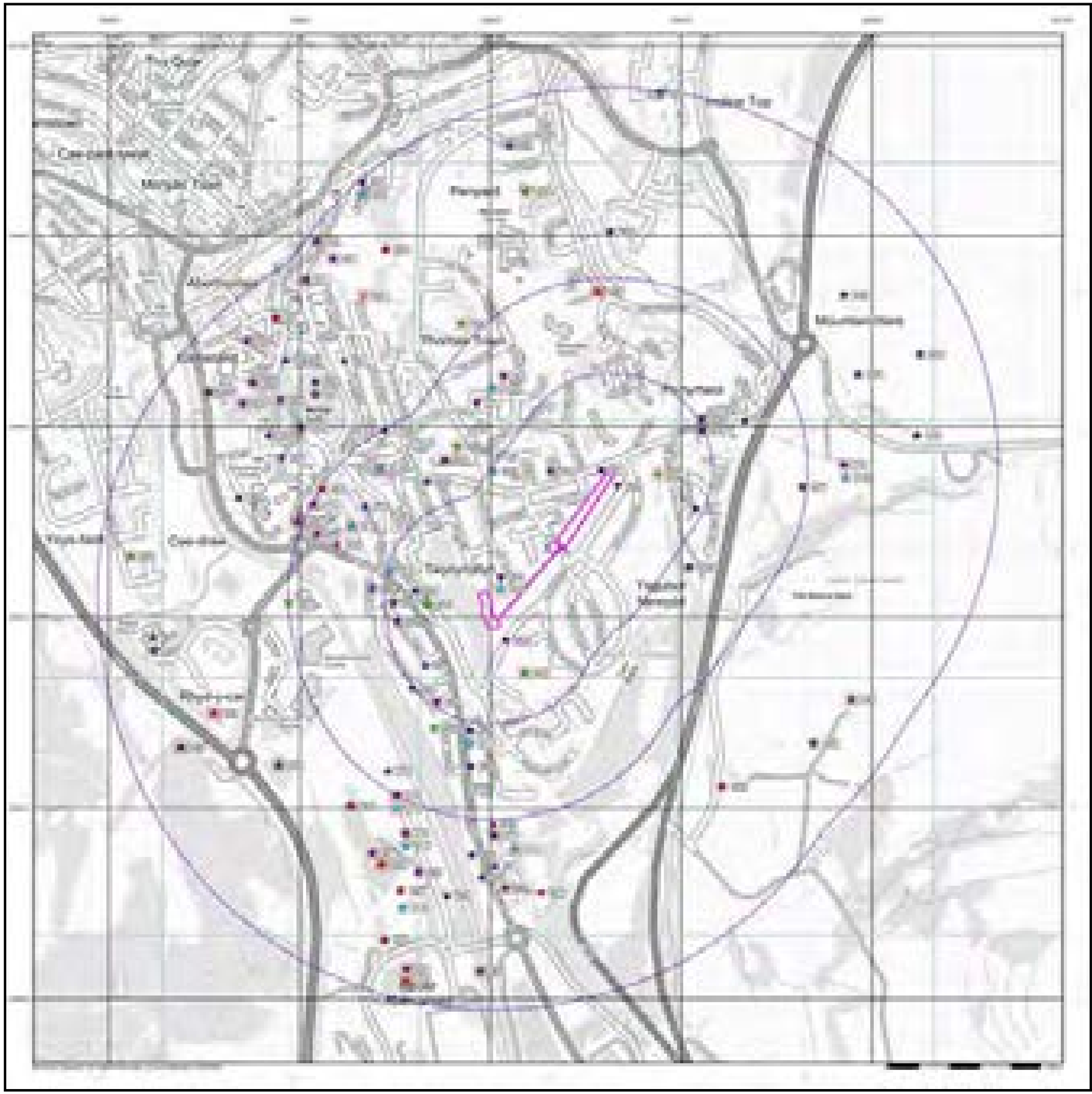
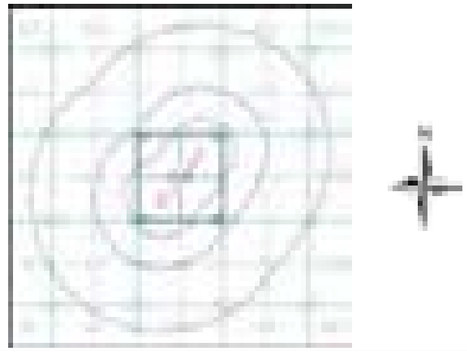


Industrial Land Use Map

Industrial Land Use Map - Slice A



Order Details

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Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
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Site Details

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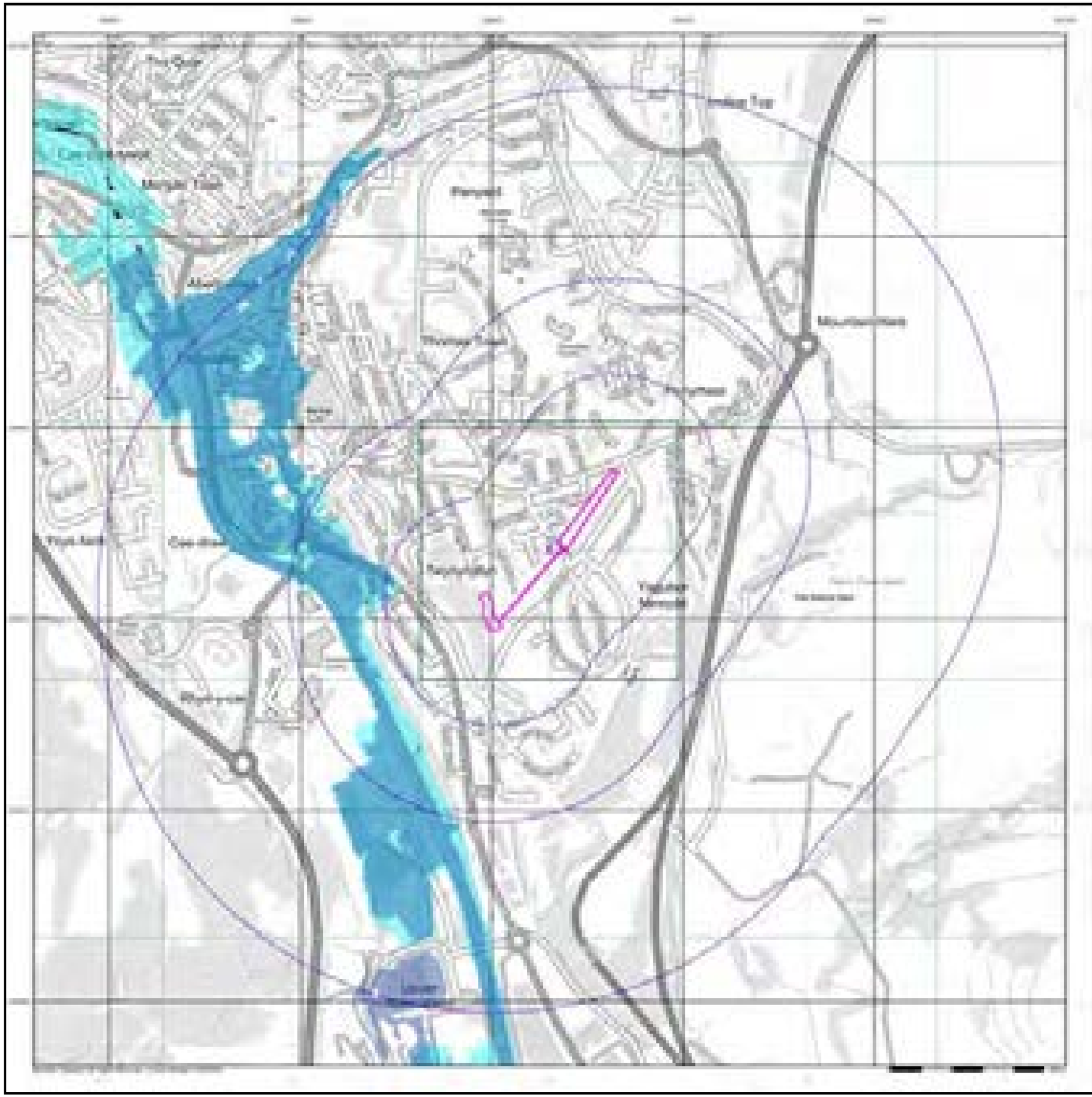
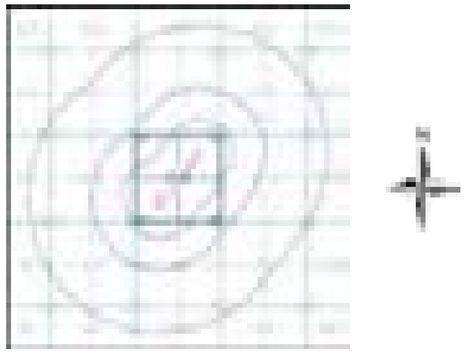


terra firma

General

Agency and Hydrological (Fluvial)

Flood Map - Slice A



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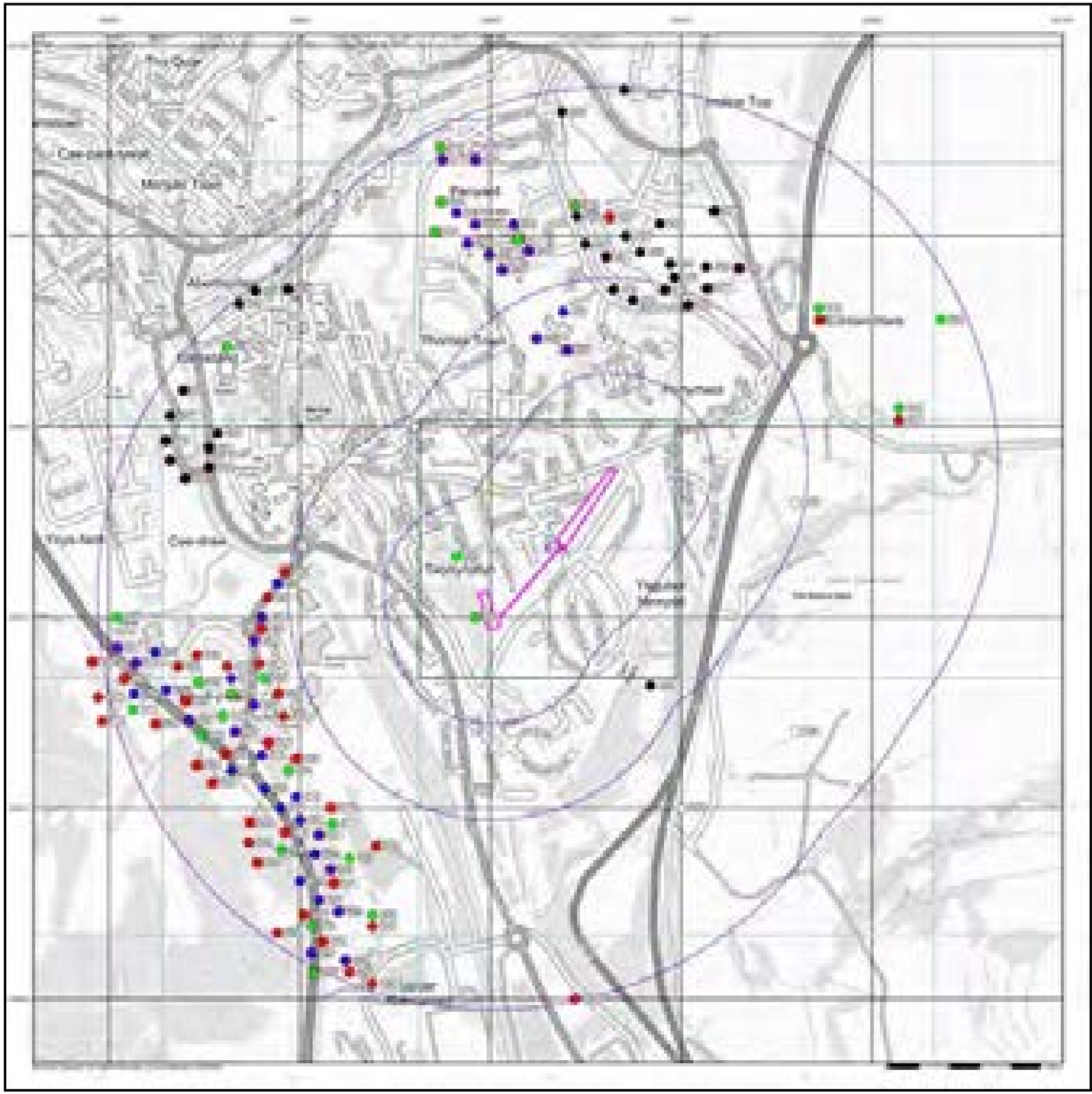
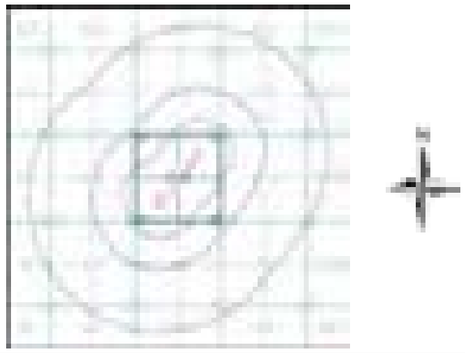


For Borehole information please refer to the Borehole .csv file which accompanied this slice.

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

Borehole Map - Slice A



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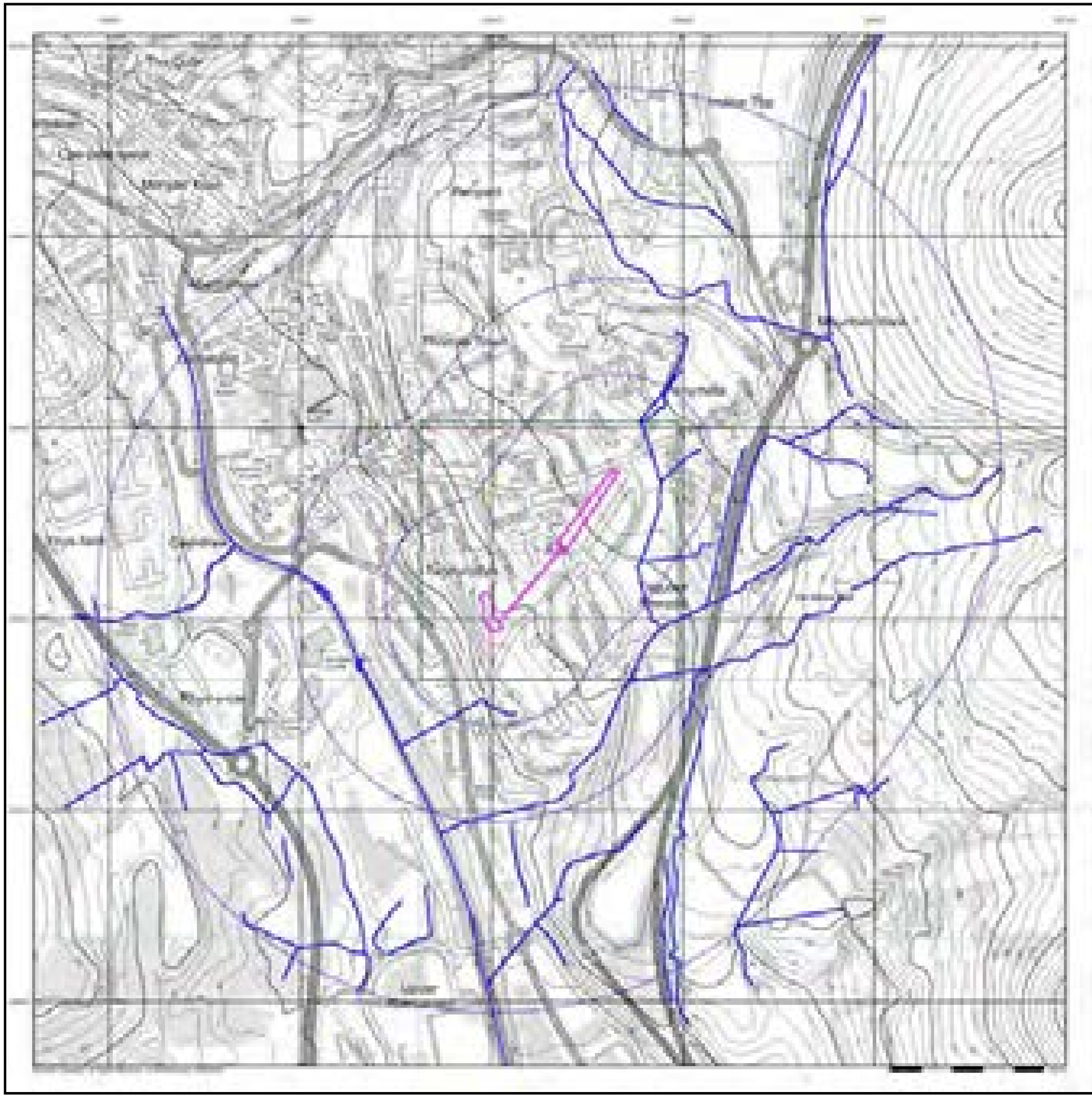
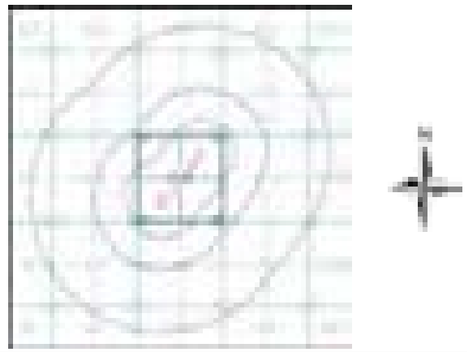


terra firma

OS Water Network Map - Slice A



Order Details

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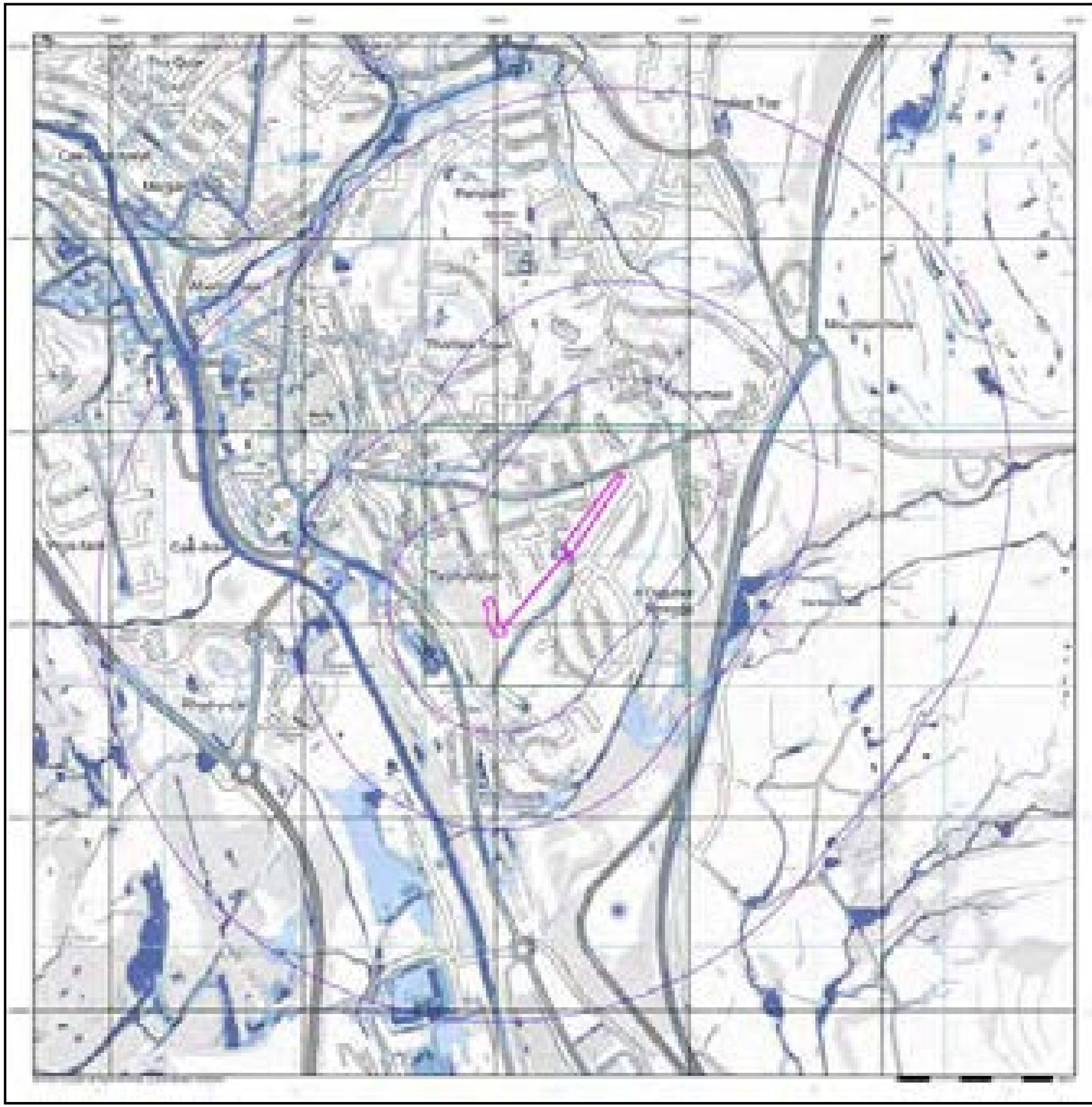
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

Landmark

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



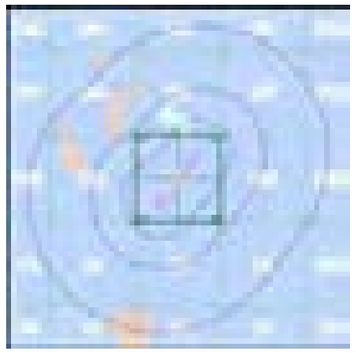
terra firma

General

Risk of Flooding from Surface Water

Suitability

EA/NRW Suitability Map - Slice A



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Customer Ref:	TF-24-211-CA JR
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Site Details

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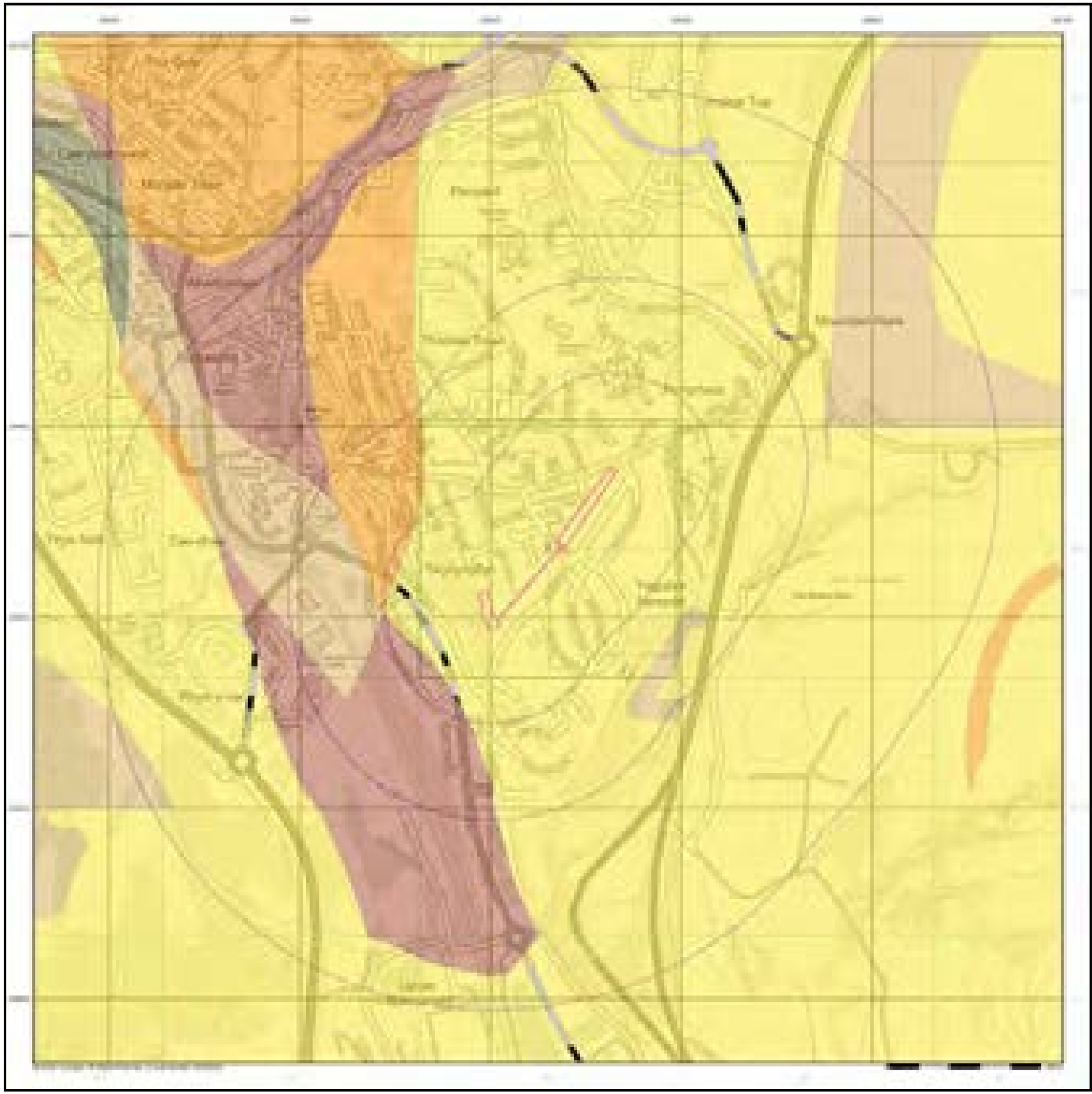
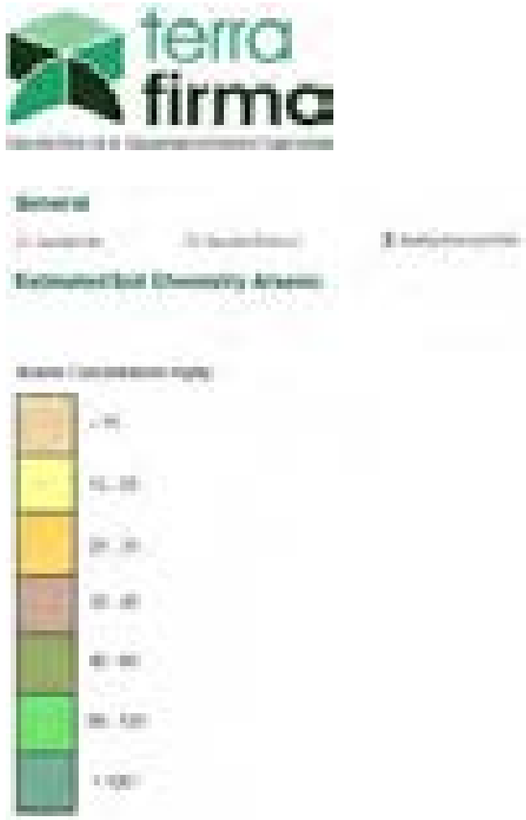
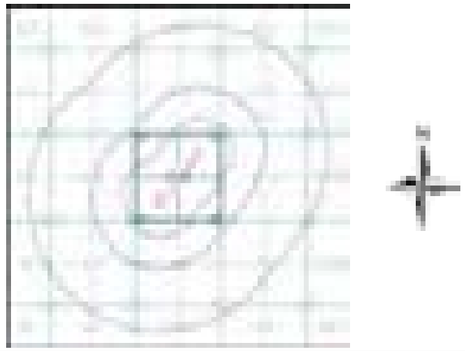




Estimated Soil Chemistry Arsenic - Slice A



Order Details

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Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

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Fax: 0844 844 9951
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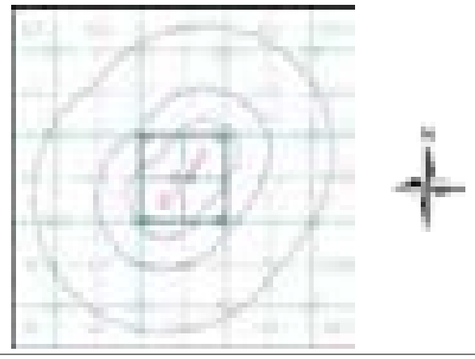
terra firma

Estimated Soil Chemistry Cadmium - Slice A



Order Details

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Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

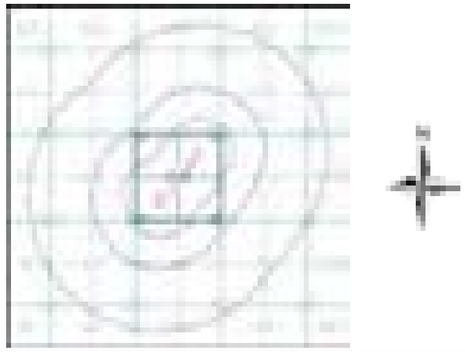
Site Details

Site at 305700, 205660

Landmark

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

Estimated Soil Chemistry Chromium - Slice A



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Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

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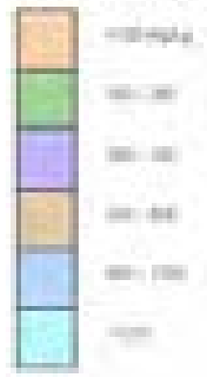
Web: www.envirocheck.co.uk

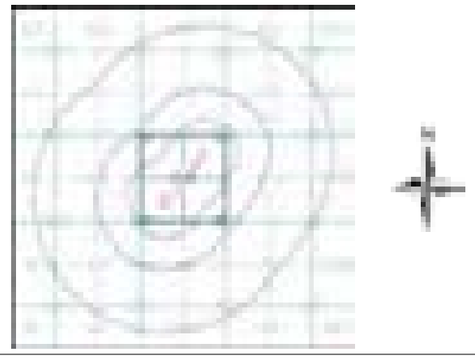
terra firma

General

Estimated Soil Chemistry Lead



Estimated Soil Chemistry Lead - Slice A



Order Details

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Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Site at 305700, 205660

Landmark

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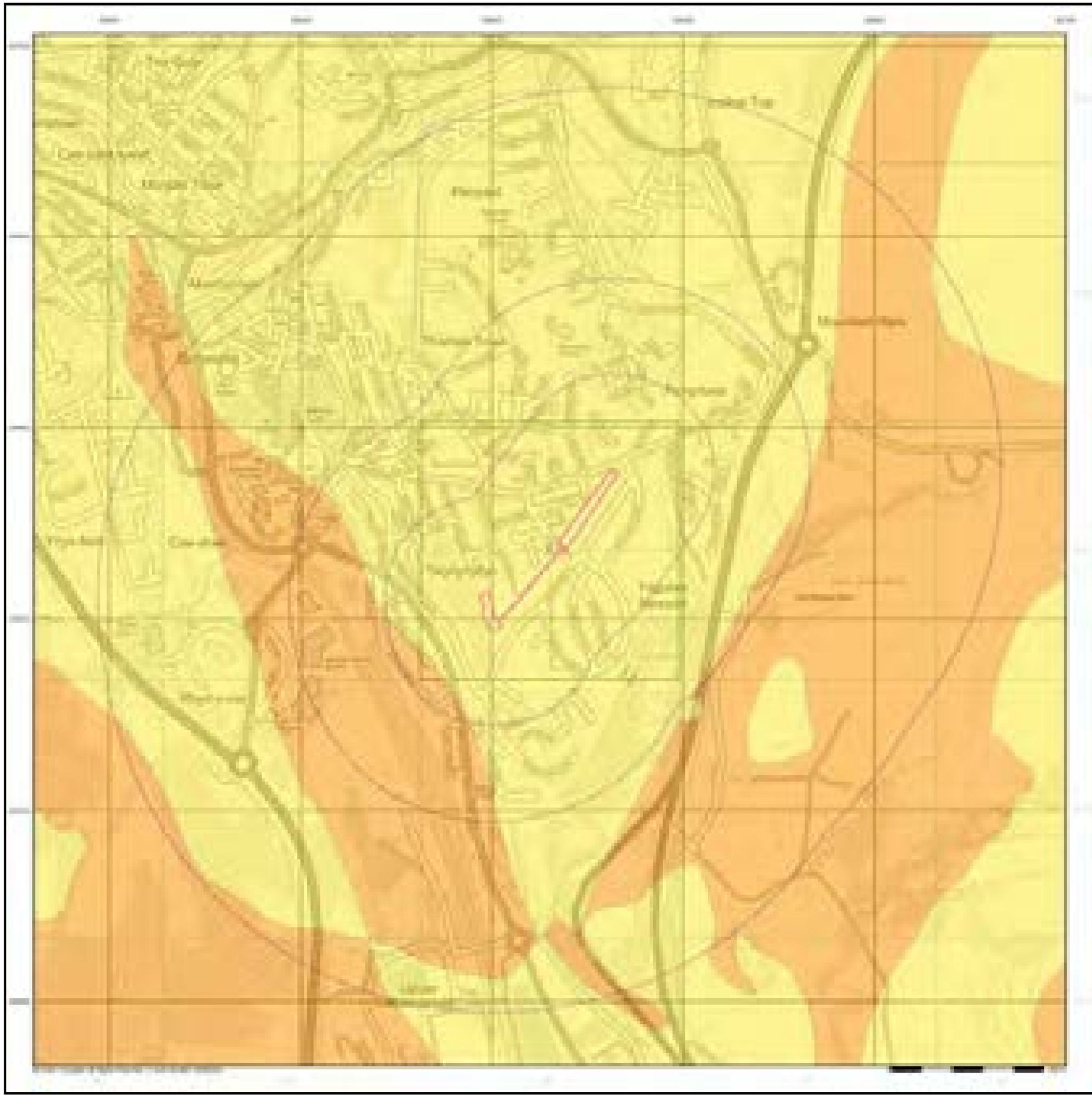
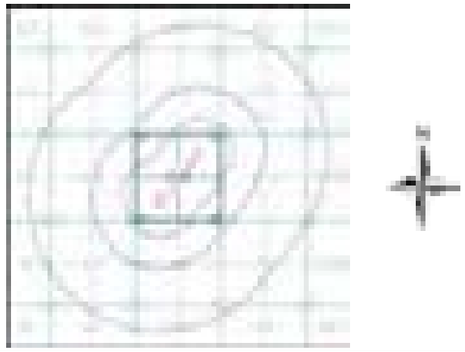


Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	346644556_1_1
Customer Ref:	TF-24-211-CA JR
National Grid Reference:	305650, 205680
Slice:	A
Site Area (Ha):	0.85
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Site at 305700, 205660

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Fax: 0844 844 9951
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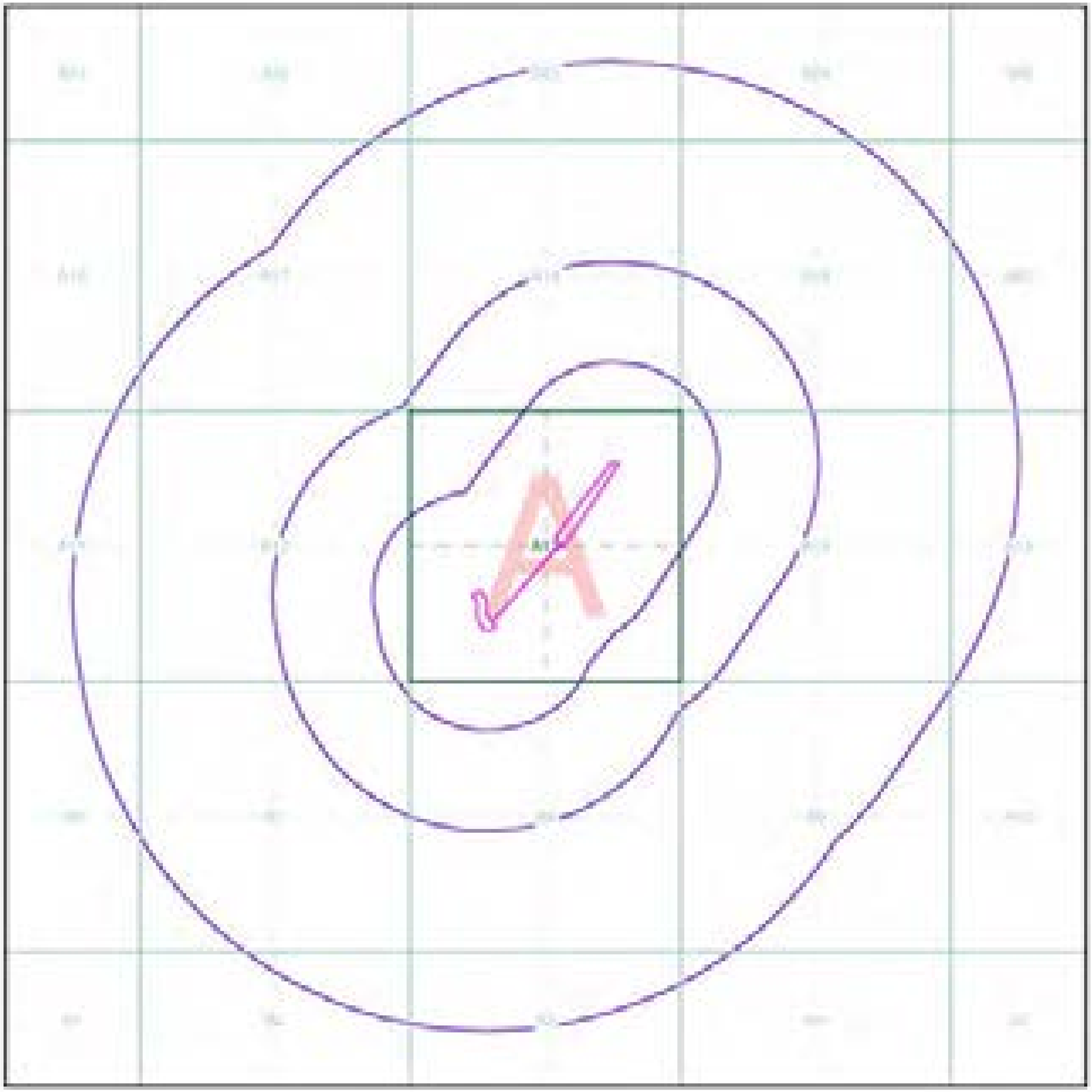

Index Map

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
Ms J Rual, TFW Group Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details
Order Number: 346644556_1_1
Customer Ref: TF-24-211-CA JR
National Grid Reference: 305670, 205700
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details
Site at 305700, 205660

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

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

ANNEX B
Coal Authority Report

The Coal Authority

Summary of findings

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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Disused adit
- Outcrop (Proven)
- Unlicensed opencast site
- Site investigations

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

The Coal Authority

Consultants

Coal Mining Report

Site At 305700, 205660
Merthyr Tydfil

Date of enquiry:	14 May 2024
Date enquiry received:	14 May 2024
Issue date:	14 May 2024
Our reference:	51003424380001
Your reference:	346644556_2

Consultants

Coal Mining Report

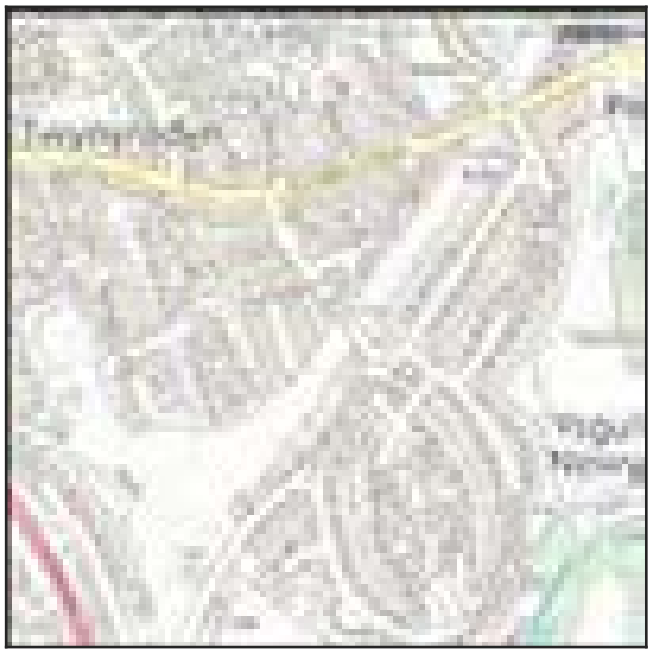
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Site At 305700, 205660
Merthyr Tydfil



Approximate position of property

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How to contact us

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+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
Yes.

Spine roadways at shallow depth
No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	305205-043	305562 205442		Coal	
Shaft	305205-098	305643 205754	After this mine entry was located during a site investigation in 2008 by Integrale Geotechnique the shaft was drilled and found to be backfilled. A concrete plug 0.5m thick was found at a depth of 5m within the shaft. The area around the shaft was temporarily backfilled with the shaft being 1m below ground level. There were recommendations that the shaft be drilled, grouted and capped before development of the site but the Coal Authority has received no information to confirm these works have been undertaken.	Coal	

Abandoned mine plan catalogue numbers
The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

5196	837	5547
SWR2509	SWR3185	SW1917
SWR2510	SWR2523	SWR2272

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
FIVE FOOT GELLIDEG	Coal	Yes	Within	N/A	176
GARW VEIN	Coal	Yes	Within	N/A	192

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the “Summary of findings” map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
3.5	North-West
28.8	South-East

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

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

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

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

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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ANNEX C
Risk Assessment Definitions

The contaminated land regime is set out in Part 2A of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000.

Part 2A was introduced to achieve three overreaching objectives:

(a) To identify and remove unacceptable risks to human health and the environment.
(b) To seek to ensure that contaminated land is made suitable for its current use.
(c) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under Part 2A the statutory definition of 'contaminated land' is:

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

(a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
(b) Pollution of controlled waters is being, or is likely to be, caused."

Under Part 2A, for land to be classified as 'Contaminated Land' there must be one or more contaminant, pathway, receptor linkages, known as the '**Pollutant Linkage**'. A pollutant linkage requires three essential elements:

(a) A **CONTAMINANT** (SOURCE) – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters.
(b) A **RECEPTOR** – something which could be adversely affected by a contaminant.
(c) A **PATHWAY** – a route by which a receptor is or might be exposed to or affected by a contaminant.

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is given by the Guidelines for Environmental Risk Assessment and Management (DEFRA *et al*, 2000):

'Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.

Model Procedures for the Management of Land Contamination – Contamination Land Report 11 (2004) defines a 'Hazard' as

'*a property or situation that in particular circumstances could lead to harm'.*

A framework for qualitative risk assessment is provided in CIRIA publication C552 Contaminated Land Risk Assessment – A Guide to Good Practice (2001). The method requires an assessment of the magnitude of the probability of the risk occurring and the magnitude of the potential consequence. Classifications of consequences and probability, levels and descriptions of risk have been devised from the above publication and are defined in the following sections.

Classification of Consequence

Table A Classification of Consequence	
Classification	**Definition**
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular ecosystem
Medium	• Chronic damage to human health (long term risk) • Pollution of a sensitive water resource • A significant change in an ecosystem or organism within the ecosystem
Mild	• Pollution of non-sensitive water resources • Significant damage to buildings/structures • Damage to sensitive buildings/structure/services or the environment
Negligible	• Harm (not necessarily significant) which may result in financial loss • Non-permanent health effects to humans (easily prevented by PPE for example) • Easily repairable effects of structural (building) damage

Classification of Probability

Table B Classification of Probability	
Classification	**Definition**
High Likelihood	• There is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor
Likely	• There is a complete pollution linkage which means that is it probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low Likelihood	• There is a complete pollution linkage and circumstances are possible under which an event could occur • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Unlikely	• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term

Risk Assessment Matrix

By comparing the consequences of a risk and the probability of the risk of a pollution linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix					
Increasing acceptability		**Consequence**			
		Severe	**Medium**	**Mild**	**Negligible**
Probability	**High Likelihood**	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

Description of Risks and Likely Actions

High Risk
There is a high probability that severe harm could arise to a receptor, or there is evidence that a receptor is currently being severely harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

Medium Risk
It is probable that harm will arise to a receptor. However, it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk
It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Near Zero Risk
There is a very low risk of harm to the receptor. In the event of harm being realised the harm is not likely to be severe.

ANNEX D
Trial Pit Logs

terra firma earth matters

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Borehole No.

SA01

Sheet 1 of 1

Project Name	**Project No.**	**Date**	**Hole Type**
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

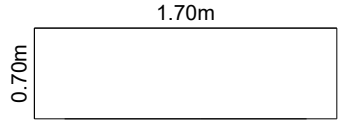
Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.30	(1.80)		MADE GROUND. Grass over loose to medium dense dark brown mottled black and orange silty very gravelly fine to coarse SAND with low cobble content. Gravel is angular to subrounded fine to coarse concrete, brick, mudstone, sandstone, fragments of glass, metal, ceramic. Cobbles are subangular sandstone.	
	ES	1.80	1.80 (0.20) 2.00		MADE GROUND. Medium dense grey mottled brown and white silty gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse mudstone, brick, chalk, glass fragment.	
					End of Trial Pit at 2.00m	

1 2 3 4

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 2.00m depth. 3] Infiltration test performed at 2.00m depth. 4] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 2.00m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

SA02

Sheet 1 of 1

Project Name	**Project No.**	**Date**	**Hole Type**
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

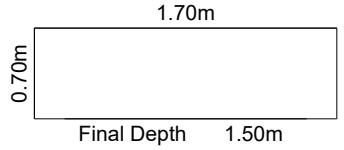
Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
			(0.90)		MADE GROUND. Grass over firm to stiff greyish brown silty slightly sandy gravelly CLAY with high cobble and boulder content. Gravel is angular to subrounded fine to coarse mudstone, sandstone.	
			0.90		Stiff orangish brown mottled grey gravelly CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse mudstone. Cobbles are subrounded mudstone.	
			(0.60)			
			1.50		End of Trial Pit at 1.50m	

1 2 3 4

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 1.50m depth. 3] Infiltration test performed at 1.50m depth. 4] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 1.50m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

SA03

Sheet 1 of 1

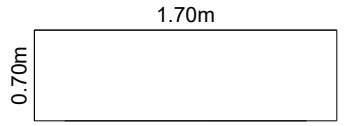
Project Name	**Project No.**	**Date**	**Hole Type**
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
			(0.05) 0.05		MADE GROUND. Grass over soft brown silty gravelly CLAY. Gravel is angular to subangular fine to coarse asphalt, concrete, brick.	
			(0.10) 0.15		ASPHANT.	
	ES	0.40	(0.45) 0.60		MADE GROUND. Loose to medium dense reddish brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse brick, concrete, asphalt, mudstone.	
			1 (1.00) 1.60		MADE GROUND. Firm to stiff brown sandy gravelly CLAY with low cobble and boulder content. Gravel is angular subrounded fine to coarse concrete, brick, mudstone, sandstone, fragments of metal and glass. Cobbles and boulders are subangular concrete, sandstone.	
			2		End of Trial Pit at 1.70m	
			3			
			4			

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 1.70m depth. 3] Infiltration test performed at 1.70m depth. 4] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 1.70m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

SA04

Sheet 1 of 1

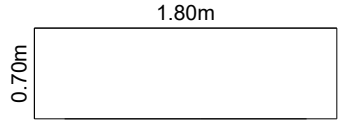
Project Name	**Project No.**	**Date**	**Hole Type**
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.50	(1.60)		MADE GROUND. Grass over loose reddish brown slightly clayey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.	
			1.60		End of Trial Pit at 1.60m	

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 1.60m depth. 3] Infiltration test performed at 1.60m depth. 4] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 1.60m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

SA05

Sheet 1 of 1

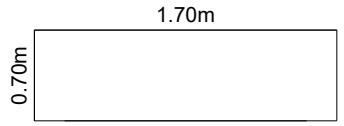
Project Name	**Project No.**	**Date**	**Hole Type**
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.50	(1.20)		MADE GROUND. Glass over dark brown silty slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse mudstone, concrete, brick, fragments of plastic and glass.	
			1.20 (0.50) 1.70		MADE GROUND. Loose reddish brown slightly clayey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse concrete, clinker, ironstone, brick, sandstone, mudstone, occasional	
					End of Trial Pit at 1.70m	

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 1.70m depth. 3] Infiltration test performed at 1.70m depth. 4] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 1.70m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP01

Sheet 1 of 1

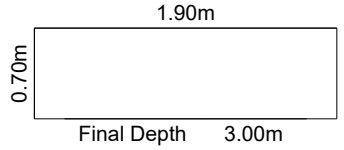
Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
			1 (3.00) 2 3 3.00 4		MADE GROUND. Grass over loose to medium dense dark brown mottled black and orange silty very gravelly fine to coarse SAND with low cobble content. Gravel is angular to subrounded fine to coarse concrete, brick, mudstone, sandstone, fragments of glass, metal, ceramic. Cobbles are subangular sandstone.	
					End of Trial Pit at 3.00m	

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 3.00m depth. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 3.00m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP02

Sheet 1 of 1

Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP

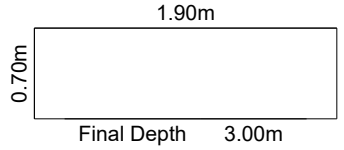
Client	Co-ords	Water Strike Details		Logged By
Merthyr Tydfil County Borough Council	E:	Depth Strike	Remarks	TM
Contractor / **Plant Used**	N:			Approved By
	L:			Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
			(0.40)		MADE GROUND. Grass over firm to stiff greyish brown silty slightly sandy gravelly CLAY with high cobble and boulder content. Gravel is angular to subrounded fine to coarse mudstone, sandstone.	
	ES	0.50	0.40		Stiff orangish brown mottled grey gravelly CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse mudstone. Cobbles are subrounded mudstone.	
			(0.80)			
			1			
			1.20		Stiff orangish grey mottled brown gravelly CLAY. Gravel is angular to subrounded fine to coarse mudstone.	
			2			
			(1.80)			
			3 3.00		End of Trial Pit at 3.00m	
			4			

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 3.00m depth. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP03

Sheet 1 of 1

Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP

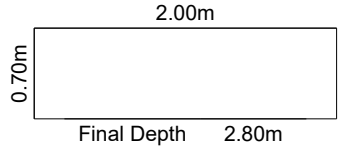
Client	Co-ords	Water Strike Details		Logged By
Merthyr Tydfil County Borough Council	E:	Depth Strike	Remarks	TM
Contractor / **Plant Used**	N:			Approved By
	L:			Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.10	(0.90)		MADE GROUND. Grass over loose reddish brown mottled black slightly clayey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.	
			0.90			
			1 (0.30)		MADE GROUND. Firm to stiff grey sandy very gravelly CLAY. Gravel is angular to subangular fine to coarse mudstone, concrete, brick.	
			1.20 (0.20)		MADE GROUND. Firm dark brown very sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse mudstone, brick, concrete, occasional coal.	
			1.40		MADE GROUND. Medium dense to dense yellowish brown gravelly fine to coarse SAND with medium cobble content. Gravel is angular to subangular fine to coarse brick, concrete. Cobbles are angular to subangular concrete, brick.	
			2 (1.40)			
			2.80		End of Trial Pit at 2.80m	
			3			
			4			

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 2.80m depth due to collapsing. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Unstable



Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP04

Sheet 1 of 1

Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP

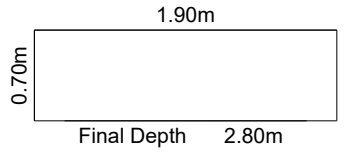
Client	Co-ords	Water Strike Details		Logged By
Merthyr Tydfil County Borough Council	E:	Depth Strike	Remarks	TM
Contractor / **Plant Used**	N:			Approved By
	L:			Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.30	(0.60)		MADE GROUND. Grass over firm to stiff sandy gravelly CLAY. Gravel is angular to subangular fine to coarse mudstone, concrete, sandstone.	
			0.60		MADE GROUND. Loose reddish brown mottled black slightly clayey gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.	
			1		*1.00 to 1.40m - From 1.00m to 1.40m: Band black mottled reddish brown rich in coal.*	
			(2.20)			
			2			
			2.80		End of Trial Pit at 2.80m	
			3			
			4			

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 2.80m depth due to collapsing. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Unstable



Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP05

Sheet 1 of 1

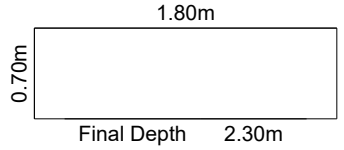
Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP
Client	**Co-ords**	**Water Strike Details**	**Logged By**
Merthyr Tydfil County Borough Council	E:	Depth Strike / Remarks	TM
Contractor / **Plant Used**	N:		**Approved By**
	L:		Scale 1:50

Samples and Results: Results	Type	Depth	Depth, (Thickness)	Level	Stratum Description	Legend
	ES	0.20	(2.30)		MADE GROUND. Loose reddish brown gravelly fine to coarse SAND with low cobble content. Gravel is angular to subangular fine to coarse concrete, clinker, ironstone, brick, sandstone, mudstone, occasional coal.	
			2.30		End of Trial Pit at 2.30m	

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 2.30m depth due to collapsing. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Unstable



Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

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Borehole No.

TP06

Sheet 1 of 1

Project Name	Project No.	Date	Hole Type
Merthyr Incline	24-211-CA	30/05/2024 to 30/05/2024	TP

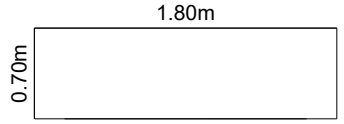
Client	Co-ords	Water Strike Details		Logged By
Merthyr Tydfil County Borough Council	E:	Depth Strike	Remarks	TM
Contractor / **Plant Used**	N:			Approved By
	L:			Scale 1:50

Samples and Results			Depth, (Thickness)	Level	Stratum Description	Legend
Results	Type	Depth				
			(0.80)		MADE GROUND. Glass over dark brown silty slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse mudstone, concrete, brick, fragments of plastic and glass.	
			0.80		Stiff orangish brown/grey gravelly CLAY. Gravel is angular to subrounded fine to coarse mudstone.	
	ES	1.00	1			
			(2.20)			
			2			
			3	3.00	End of Trial Pit at 3.00m	
			4			

Remarks

1] Consistency, strength and density indicators are based upon field judgement. 2] Trial pit terminated at 3.00m depth. 3] Trial pit backfilled with arisings on completion of test.

Pit Stability: Stable



Final Depth 3.00m

Notes: For all symbols and abbreviations please see key sheet. All depths and measurements in metres. Stratum thicknesses given in brackets.

ANNEX E
Soakaway Results

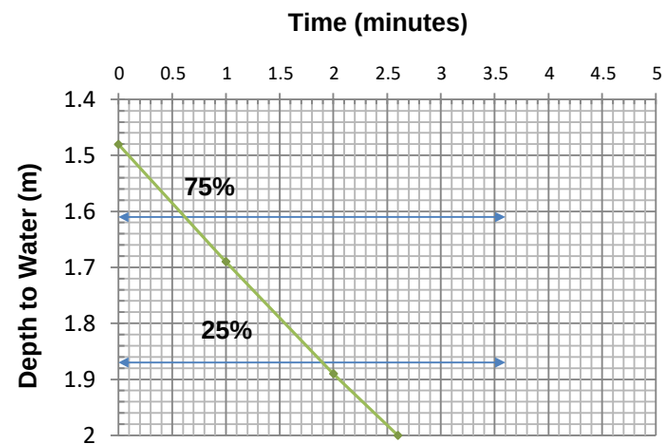
SOAKAWAY TEST

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29/05/2024

Trial Pit: **SA01**

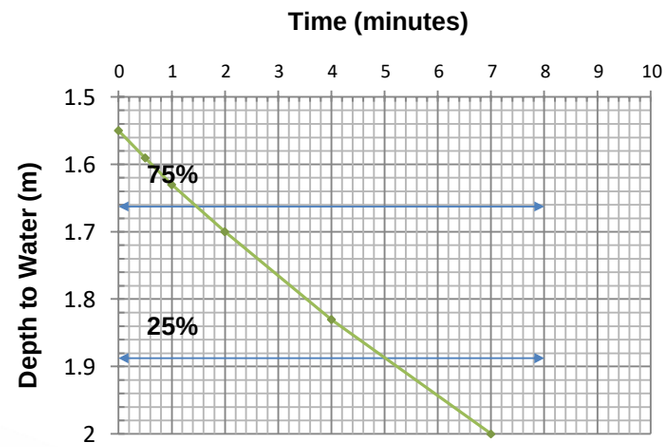
TEST 1

Length	1.70	m
Width	0.70	m
Depth	2.00	m
Fill Level	1.48	m
V_{p75-25}	0.309	m^3
a_{p50}	2.438	m^2
t_{p75-25}	1.3	minutes
Soil Infiltration Rate, f	**1.63E-03**	**ms^{-1}**



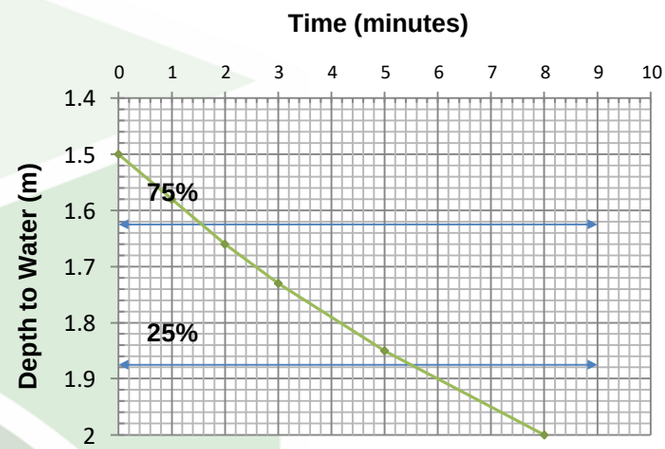
TEST 2

Length	1.70	m
Width	0.70	m
Depth	2.00	m
Fill Level	1.55	m
V_{p75-25}	0.268	m^3
a_{p50}	2.27	m^2
t_{p75-25}	3.6	minutes
Soil Infiltration Rate, f	**5.46E-04**	**ms^{-1}**



TEST 3

Length	1.70	m
Width	0.70	m
Depth	2.00	m
Fill Level	1.50	m
V_{p75-25}	0.298	m^3
a_{p50}	2.39	m^2
t_{p75-25}	4	minutes
Soil Infiltration Rate, f	**5.19E-04**	**ms^{-1}**



REMARKS:
Test carried out in accordance with BRE Digest 365 (2016)

SOAKAWAY TEST

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29/05/2024

Trial Pit: **SA02**

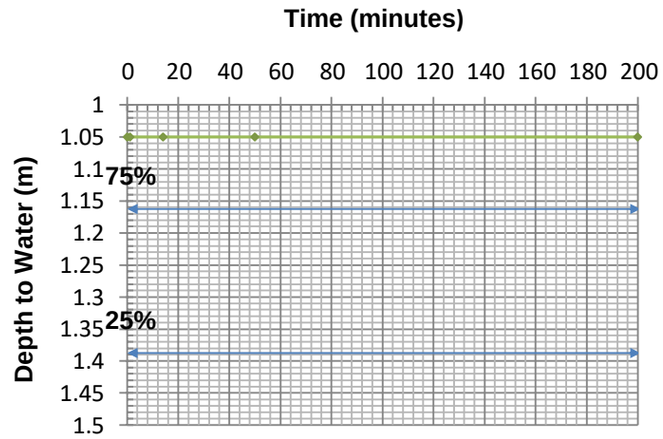
TEST 1

Length	1.70	m
Width	0.70	m
Depth	1.50	m
Fill Level	1.05	m

V_{p75-25}	0.268	m^3
a_{p50}	2.27	m^2
t_{p75-25}	0	minutes

Soil Infiltration Rate, f

No Infiltration



REMARKS:
Test carried out in accordance with BRE Digest 365 (2016)

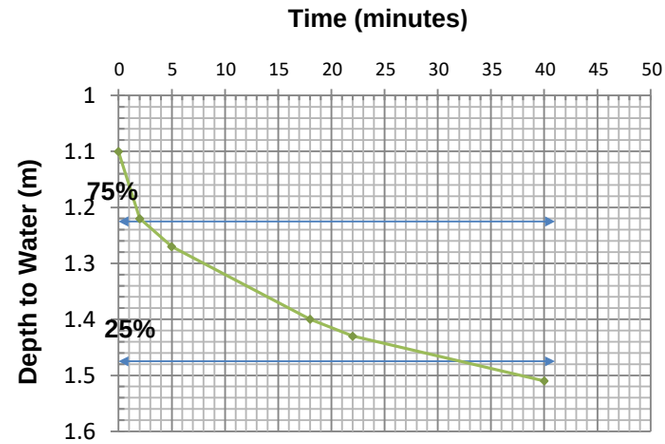
SOAKAWAY TEST

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29/05/2024

Trial Pit: **SA03**

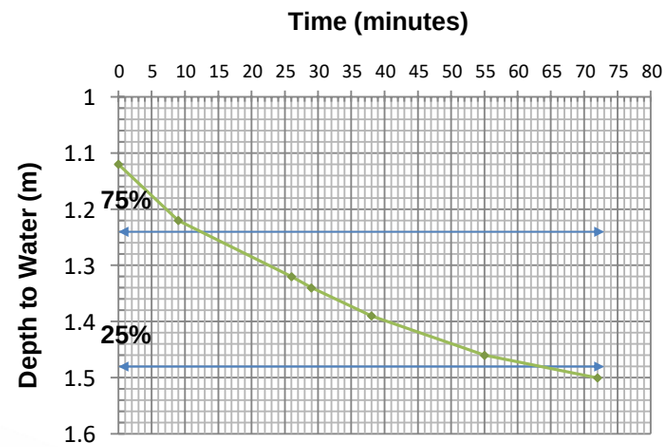
TEST 1

Length	1.70	m
Width	0.70	m
Depth	1.60	m
Fill Level	1.10	m
V_{p75-25}	0.298	m^3
a_{p50}	2.39	m^2
t_{p75-25}	30	minutes
Soil Infiltration Rate, f	**6.92E-05**	**ms^{-1}**



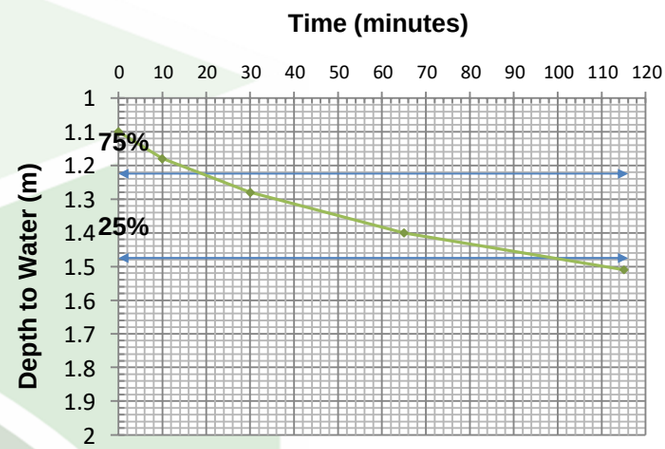
TEST 2

Length	1.70	m
Width	0.70	m
Depth	1.60	m
Fill Level	1.12	m
V_{p75-25}	0.286	m^3
a_{p50}	2.342	m^2
t_{p75-25}	51	minutes
Soil Infiltration Rate, f	**3.99E-05**	**ms^{-1}**



TEST 3

Length	1.70	m
Width	0.70	m
Depth	1.60	m
Fill Level	1.10	m
V_{p75-25}	0.298	m^3
a_{p50}	2.39	m^2
t_{p75-25}	81	minutes
Soil Infiltration Rate, f	**2.56E-05**	**ms^{-1}**



REMARKS:
Test carried out in accordance with BRE Digest 365 (2016)

SOAKAWAY TEST

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29/05/2024

Trial Pit: **SA04**

TEST 1

Length	1.80	m
Width	0.70	m
Depth	1.60	m
Fill Level		m

V_{p75-25}	-	m^3
a_{p50}	-	m^2
t_{p75-25}	-	minutes

Soil Infiltration Rate, f
Unable to calculate a soil infiltration rate.
Due to rapid infiltration it has not been possible to raise the water level in the trial pit to undertake a test.

REMARKS:
Test carried out in accordance with BRE Digest 365 (2016)

SOAKAWAY TEST

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29/05/2024

Trial Pit: **SA05**

TEST 1

Length	1.70	m
Width	0.70	m
Depth	1.70	m
Fill Level		m

V_{p75-25}	-	m^3
a_{p50}	-	m^2
t_{p75-25}	-	minutes

Soil Infiltration Rate, f
Unable to calculate a soil infiltration rate.
Due to rapid infiltration it has not been possible to raise the water level in the trial pit to undertake a test.

REMARKS:
Test carried out in accordance with BRE Digest 365 (2016)

ANNEX F
CBR-TRL Results

DYNAMIC CONE PENETROMETER TEST

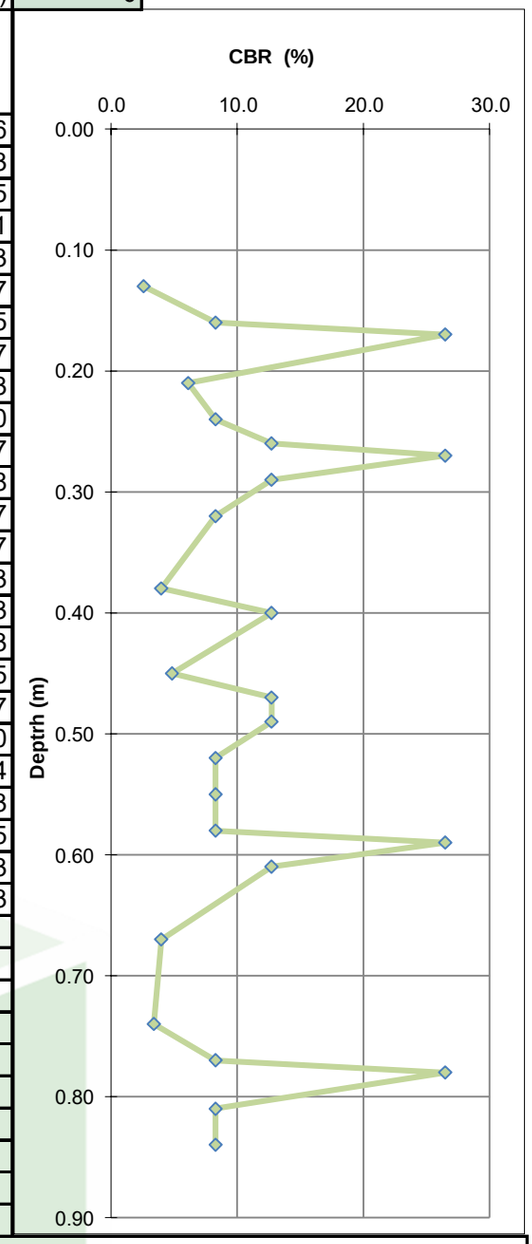
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL01**

Initial Scale Reading (mm): 40 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	130	90	0.13	90	2.6
1	160	30	0.16	30	8.3
1	170	10	0.17	10	26.5
1	210	40	0.21	40	6.1
1	240	30	0.24	30	8.3
1	260	20	0.26	20	12.7
1	270	10	0.27	10	26.5
1	290	20	0.29	20	12.7
1	320	30	0.32	30	8.3
1	380	60	0.38	60	4.0
1	400	20	0.40	20	12.7
1	450	50	0.45	50	4.8
1	470	20	0.47	20	12.7
1	490	20	0.49	20	12.7
1	520	30	0.52	30	8.3
1	550	30	0.55	30	8.3
1	580	30	0.58	30	8.3
1	590	10	0.59	10	26.5
1	610	20	0.61	20	12.7
1	670	60	0.67	60	4.0
1	740	70	0.74	70	3.4
1	770	30	0.77	30	8.3
1	780	10	0.78	10	26.5
1	810	30	0.81	30	8.3
1	840	30	0.84	30	8.3
End of Test - Full Depth Achieved					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.
CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

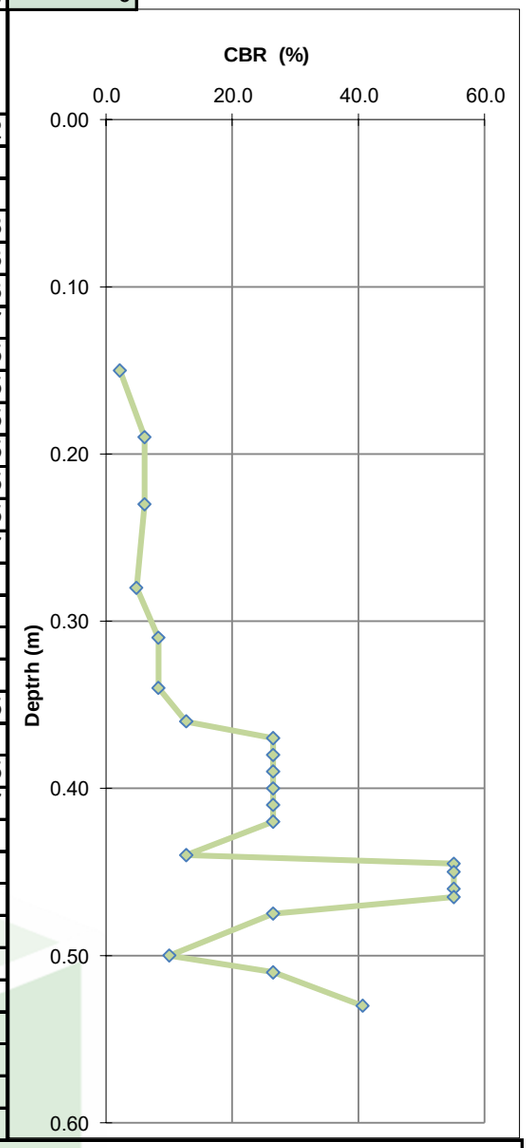
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL02**

Initial Scale Reading (mm): 45 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	150	105	0.15	105	2.2
1	190	40	0.19	40	6.1
1	230	40	0.23	40	6.1
1	280	50	0.28	50	4.8
1	310	30	0.31	30	8.3
1	340	30	0.34	30	8.3
1	360	20	0.36	20	12.7
1	370	10	0.37	10	26.5
1	380	10	0.38	10	26.5
1	390	10	0.39	10	26.5
1	400	10	0.40	10	26.5
1	410	10	0.41	10	26.5
1	420	10	0.42	10	26.5
1	440	20	0.44	20	12.7
1	445	5	0.45	5	55.1
1	450	5	0.45	5	55.1
2	460	10	0.46	5	55.1
1	465	5	0.47	5	55.1
1	475	10	0.48	10	26.5
1	500	25	0.50	25	10.1
1	510	10	0.51	10	26.5
3	530	20	0.53	7	40.7
End of Test - Bouncing at 530mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.
CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

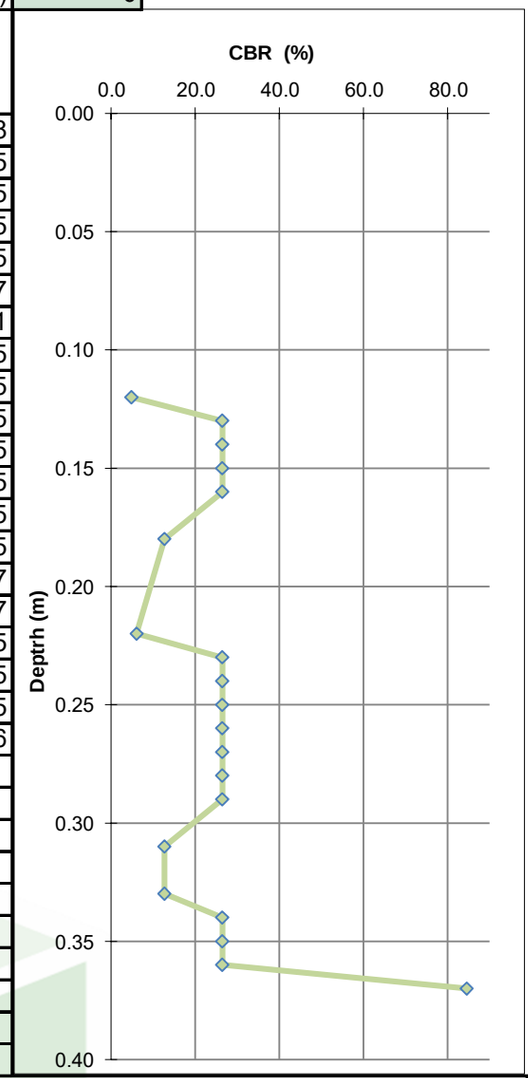
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL03**

Initial Scale Reading (mm): 70 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	120	50	0.12	50	4.8
1	130	10	0.13	10	26.5
1	140	10	0.14	10	26.5
1	150	10	0.15	10	26.5
1	160	10	0.16	10	26.5
1	180	20	0.18	20	12.7
1	220	40	0.22	40	6.1
1	230	10	0.23	10	26.5
1	240	10	0.24	10	26.5
1	250	10	0.25	10	26.5
1	260	10	0.26	10	26.5
1	270	10	0.27	10	26.5
1	280	10	0.28	10	26.5
1	290	10	0.29	10	26.5
1	310	20	0.31	20	12.7
1	330	20	0.33	20	12.7
1	340	10	0.34	10	26.5
1	350	10	0.35	10	26.5
1	360	10	0.36	10	26.5
3	370	10	0.37	3	84.6
End of Test - Bouncing at 370mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.
CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

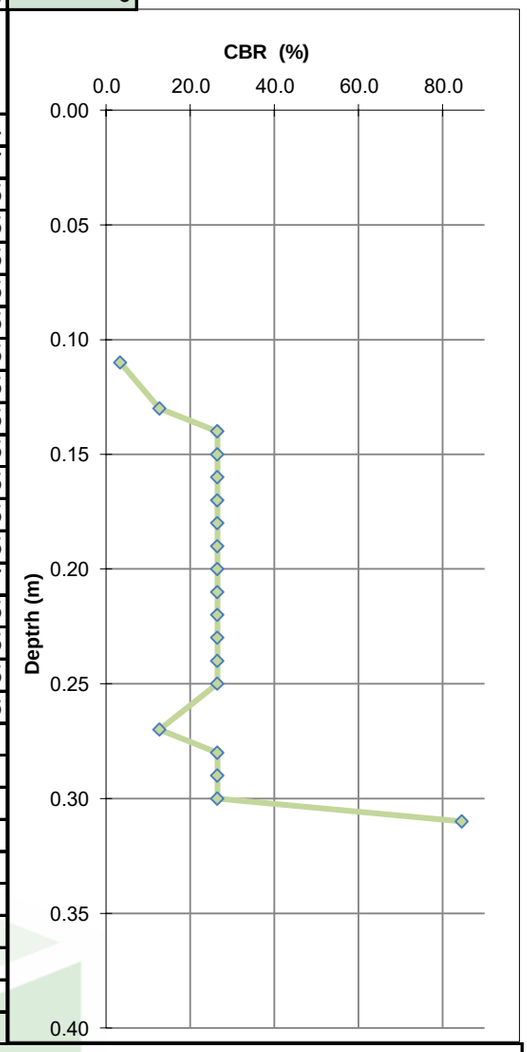
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL04**

Initial Scale Reading (mm): 40 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	110	70	0.11	70	3.4
1	130	20	0.13	20	12.7
1	140	10	0.14	10	26.5
1	150	10	0.15	10	26.5
1	160	10	0.16	10	26.5
1	170	10	0.17	10	26.5
1	180	10	0.18	10	26.5
1	190	10	0.19	10	26.5
1	200	10	0.20	10	26.5
1	210	10	0.21	10	26.5
1	220	10	0.22	10	26.5
1	230	10	0.23	10	26.5
1	240	10	0.24	10	26.5
1	250	10	0.25	10	26.5
1	270	20	0.27	20	12.7
1	280	10	0.28	10	26.5
1	290	10	0.29	10	26.5
1	300	10	0.30	10	26.5
3	310	10	0.31	3	84.6
End of Test - Bouncing at 310mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.
CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

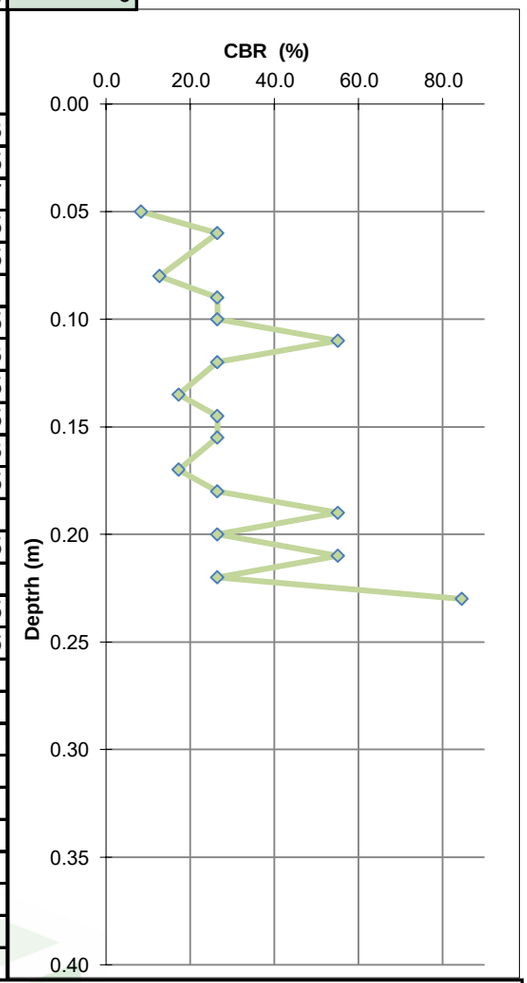
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL05**

Initial Scale Reading (mm): 20 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	50	30	0.05	30	8.3
1	60	10	0.06	10	26.5
1	80	20	0.08	20	12.7
1	90	10	0.09	10	26.5
1	100	10	0.10	10	26.5
2	110	10	0.11	5	55.1
1	120	10	0.12	10	26.5
1	135	15	0.14	15	17.3
1	145	10	0.15	10	26.5
1	155	10	0.16	10	26.5
1	170	15	0.17	15	17.3
1	180	10	0.18	10	26.5
2	190	10	0.19	5	55.1
1	200	10	0.20	10	26.5
2	210	10	0.21	5	55.1
1	220	10	0.22	10	26.5
3	230	10	0.23	3	84.6
End of Test - Bouncing at 230mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.

CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

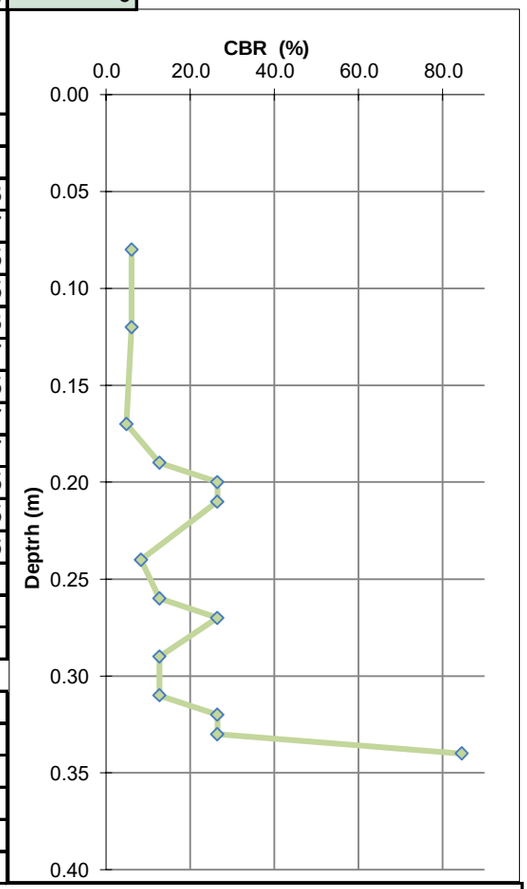
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL06**

Initial Scale Reading (mm): 40 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	80	40	0.08	40	6.1
1	120	40	0.12	40	6.1
1	170	50	0.17	50	4.8
1	190	20	0.19	20	12.7
1	200	10	0.20	10	26.5
1	210	10	0.21	10	26.5
1	240	30	0.24	30	8.3
1	260	20	0.26	20	12.7
1	270	10	0.27	10	26.5
1	290	20	0.29	20	12.7
1	310	20	0.31	20	12.7
1	320	10	0.32	10	26.5
1	330	10	0.33	10	26.5
3	340	10	0.34	3	84.6
End of Test - Bouncing at 340mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.

CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

DYNAMIC CONE PENETROMETER TEST

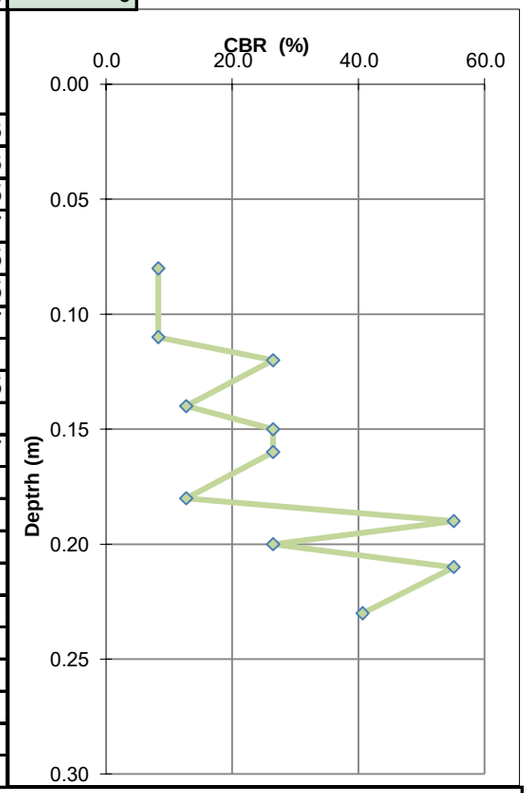
terra firma
Geotechnical & Geoenvironmental Specialists

Site Name: Merthyr Incline
Project Number: 24-211-CA
Date: 29.05.2024
Engineer: TM

Test: **TRL07**

Initial Scale Reading (mm): 50 | Datum bgl (mm): 0

No. of blows	Scale reading (mm)	Penetration increment (mm)	Depth bgl (m)	DCP (mm/blow)	CBR (%)
1	80	30	0.08	30	8.3
1	110	30	0.11	30	8.3
1	120	10	0.12	10	26.5
1	140	20	0.14	20	12.7
1	150	10	0.15	10	26.5
1	160	10	0.16	10	26.5
1	180	20	0.18	20	12.7
2	190	10	0.19	5	55.1
1	200	10	0.20	10	26.5
2	210	10	0.21	5	55.1
3	230	20	0.23	7	40.7
End of Test - Bouncing at 230mm Depth					



REMARKS:

Test carried out in accordance with operating instructions for the dynamic cone penetrometer Model A2465 by CNS Farnell Ltd.
CBR correlation based on the relationship Log10 (CBR) = 2.48 - 1.057 * Log10 (mm/blow) developed by TRL taken from The Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

ANNEX G
Laboratory Soil Chemical Test Results

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	24-18074-2		
Initial Date of Issue:	17-Jun-2024	**Date of Re-Issue:**	19-Jun-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-18074-1 in its entirety		
Client	Terra Firma		
Client Address:	5 Deryn Court Wharfedale Road Pentwyn Cardiff CF23 7HA		
Contact(s):	tomas@terrafirmawales.co.uk		
Project	Merthyr Incline		
Quotation No.:		**Date Received:**	07-Jun-2024
Order No.:	24-211-CA	**Date Instructed:**	07-Jun-2024
No. of Samples:	10		
Turnaround (Wkdays):	5	**Results Due:**	13-Jun-2024
Date Approved:	19-Jun-2024		

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: Merthyr Incline

Client: Terra Firma					**Chemtest Job No.:**	24-18074	24-18074	24-18074	24-18074	24-18074	24-18074	24-18074
Quotation No.:					**Chemtest Sample ID.:**	1818273	1818274	1818275	1818276	1818277	1818278	1818279
Order No.: 24-211-CA					Client Sample Ref.:	SA01	SA01	SA03	SA04	SA05	TP02	TP03
					Client Sample ID.:	SA01	SA01	SA03	SA04	SA05	TP02	TP03
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.30	1.80	0.40	0.50	0.50	0.50	0.10
					Date Sampled:	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024
					Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00
					Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	32	16	14	17	13	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Loam	Loam	Sand	Sand	Loam	Clay	Loam
pH at 20C		M	2010		4.0	8.0	7.7	8.1	8.0	8.1	8.3	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.91	< 0.40	0.47	< 0.40	0.48	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			< 0.010	< 0.010	< 0.010		< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	7.4	1.8	< 0.50	< 0.50	< 0.50	< 0.50	1.0
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	7.4	1.8	< 0.50	< 0.50	< 0.50	< 0.50	1.0
Sulphate (Acid Soluble)		U	2430	%	0.010	0.20	0.15	1.2	0.29	0.38	0.012	0.57
Arsenic		M	2455	mg/kg	0.5	12	34	38	57	22	9.4	54
Beryllium		U	2455	mg/kg	0.5	1.5	2.0	0.8	2.5	1.8	1.1	1.5
Cadmium		M	2455	mg/kg	0.10	0.51	0.72	0.10	0.18	0.49	< 0.10	0.39
Chromium		M	2455	mg/kg	0.5	19	42	26	58	27	23	40
Mercury Low Level		N	2450	mg/kg	0.05	0.11	0.38	0.33	0.06	0.30	< 0.05	0.64
Manganese		M	2455	mg/kg	1.0	730	920	520	750	2300	960	530
Molybdenum		M	2455	mg/kg	0.5	3.2	11	4.2	11	1.8	0.6	7.6
Antimony		N	2455	mg/kg	2.0	4.1	12	2.0	8.9	< 2.0	< 2.0	4.2
Copper		M	2455	mg/kg	0.50	56	260	44	82	140	32	130
Nickel		M	2455	mg/kg	0.50	21	78	25	88	40	39	62
Lead		M	2455	mg/kg	0.50	180	1000	60	53	110	30	140
Selenium		M	2455	mg/kg	0.25	1.1	2.9	3.1	2.0	1.7	0.87	3.9
Zinc		M	2455	mg/kg	0.50	710	590	66	57	190	100	260
Chromium (Trivalent)		N	2490	mg/kg	1.0	19	42	26	58	27	23	40
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.6	7.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: Merthyr Incline

Client: Terra Firma						**Chemtest Job No.:**	24-18074	24-18074	24-18074	24-18074	24-18074	24-18074	24-18074
Quotation No.:						**Chemtest Sample ID.:**	1818273	1818274	1818275	1818276	1818277	1818278	1818279
Order No.: 24-211-CA						Client Sample Ref.:	SA01	SA01	SA03	SA04	SA05	TP02	TP03
						Client Sample ID.:	SA01	SA01	SA03	SA04	SA05	TP02	TP03
						Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Top Depth (m):	0.30	1.80	0.40	0.50	0.50	0.50	0.10
						Date Sampled:	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024
						Time Sampled:	12:00	12:00	12:00	12:00	12:00	12:00	12:00
						Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**								
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		7.2	7.6	< 1.0	2.7	< 1.0	< 1.0	4.2
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		3.9	8.9	< 2.0	2.5	< 2.0	< 2.0	15
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		16	23	< 3.0	4.5	< 3.0	< 3.0	9.4
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		32	47	< 5.0	11	< 5.0	< 5.0	31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		32	47	< 10	11	< 10	< 10	31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		6.8	10	5.3	5.8	12	5.7	16
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		16	7.9	2.4	< 2.0	36	< 2.0	18
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		5.7	4.3	2.3	< 1.0	4.8	< 1.0	4.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		22	19	7.6	6.4	49	6.5	34
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		28	23	< 10	< 10	54	< 10	38
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		54	65	< 10	18	52	< 10	65
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		60	69	< 10	18	57	< 10	69
Naphthalene		M	2800	mg/kg	0.10		0.37	0.29	0.14	< 0.10	0.20	< 0.10	0.21
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10		0.17	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10		0.75	0.96	0.24	< 0.10	1.9	< 0.10	0.44
Anthracene		M	2800	mg/kg	0.10		0.15	0.16	< 0.10	< 0.10	0.46	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10		1.2	0.99	0.26	< 0.10	3.9	< 0.10	0.43
Pyrene		M	2800	mg/kg	0.10		0.91	0.76	0.20	< 0.10	2.9	< 0.10	0.33
Benzo[a]anthracene		M	2800	mg/kg	0.10		0.79	0.69	0.19	< 0.10	2.3	< 0.10	0.28
Chrysene		M	2800	mg/kg	0.10		0.81	1.0	0.23	< 0.10	2.2	< 0.10	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		1.3	1.0	0.30	< 0.10	3.7	< 0.10	0.49
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		0.38	0.36	< 0.10	< 0.10	1.3	< 0.10	0.19
Benzo[a]pyrene		M	2800	mg/kg	0.10		0.62	0.63	0.17	< 0.10	2.4	< 0.10	0.26
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		0.42	0.42	0.18	< 0.10	1.7	< 0.10	0.25
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10	0.42	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		0.60	0.43	0.15	< 0.10	1.8	< 0.10	0.23
Total Of 16 PAH's		N	2800	mg/kg	2.0		8.5	7.7	2.1	< 2.0	26	< 2.0	3.6

Results - Soil

Project: Merthyr Incline

Client: Terra Firma				**Chemtest Job No.:**		24-18074	24-18074	24-18074	24-18074	24-18074	24-18074	24-18074
Quotation No.:				**Chemtest Sample ID.:**		1818273	1818274	1818275	1818276	1818277	1818278	1818279
Order No.: 24-211-CA				Client Sample Ref.:		SA01	SA01	SA03	SA04	SA05	TP02	TP03
				Client Sample ID.:		SA01	SA01	SA03	SA04	SA05	TP02	TP03
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.30	1.80	0.40	0.50	0.50	0.50	0.10
				Date Sampled:		30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024	30-May-2024
				Time Sampled:		12:00	12:00	12:00	12:00	12:00	12:00	12:00
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Organic Matter BS1377		N	2930	%	0.10	5.6	5.3	2.2	1.0	5.3	0.90	4.6

Results - Soil

Project: Merthyr Incline

Client: Terra Firma						**Chemtest Job No.:**	24-18074	24-18074	24-18074
Quotation No.:						**Chemtest Sample ID.:**	1818280	1818281	1818282
Order No.: 24-211-CA						Client Sample Ref.:	TP04	TP05	TP06
						Client Sample ID.:	TP04	TP05	TP06
						Sample Type:	SOIL	SOIL	SOIL
						Top Depth (m):	0.30	0.20	1.00
						Date Sampled:	30-May-2024	30-May-2024	30-May-2024
						Time Sampled:	12:00	12:00	12:00
						Asbestos Lab:	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**				
ACM Type		U	2192		N/A		-	-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020		11	13	20
Soil Colour		N	2040		N/A		Brown	Brown	Brown
Other Material		N	2040		N/A		Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A		Loam	Sand	Clay
pH at 20C		M	2010		4.0		8.7	8.7	7.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		< 0.40	< 0.40	0.45
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010				
Cyanide (Complex)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)		U	2430	%	0.010		0.086	0.11	0.016
Arsenic		M	2455	mg/kg	0.5		9.9	19	12
Beryllium		U	2455	mg/kg	0.5		0.7	1.4	1.0
Cadmium		M	2455	mg/kg	0.10		0.36	0.75	< 0.10
Chromium		M	2455	mg/kg	0.5		20	31	20
Mercury Low Level		N	2450	mg/kg	0.05		0.06	< 0.05	0.07
Manganese		M	2455	mg/kg	1.0		790	310	660
Molybdenum		M	2455	mg/kg	0.5		1.6	7.0	1.3
Antimony		N	2455	mg/kg	2.0		< 2.0	3.6	< 2.0
Copper		M	2455	mg/kg	0.50		26	53	34
Nickel		M	2455	mg/kg	0.50		25	120	20
Lead		M	2455	mg/kg	0.50		73	43	50
Selenium		M	2455	mg/kg	0.25		0.75	1.2	1.1
Zinc		M	2455	mg/kg	0.50		170	120	65
Chromium (Trivalent)		N	2490	mg/kg	1.0		20	31	20
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		< 0.10	< 0.10	< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		3.7	2.4	3.8

Results - Soil

Project: Merthyr Incline

Client: Terra Firma						**Chemtest Job No.:**	24-18074	24-18074	24-18074
Quotation No.:						**Chemtest Sample ID.:**	1818280	1818281	1818282
Order No.: 24-211-CA						Client Sample Ref.:	TP04	TP05	TP06
						Client Sample ID.:	TP04	TP05	TP06
						Sample Type:	SOIL	SOIL	SOIL
						Top Depth (m):	0.30	0.20	1.00
						Date Sampled:	30-May-2024	30-May-2024	30-May-2024
						Time Sampled:	12:00	12:00	12:00
						Asbestos Lab:	DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**				
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		6.4	4.3	7.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		3.8	3.6	5.2
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		8.6	7.2	16
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		22	17	32
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		22	17	32
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		23	5.0	4.8
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		55	< 2.0	6.1
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		8.8	1.1	4.7
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		78	6.1	11
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		87	< 10	16
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		100	24	43
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		110	25	47
Naphthalene		M	2800	mg/kg	0.10		0.17	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10		0.41	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10		0.15	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10		0.25	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10		3.5	< 0.10	0.14
Anthracene		M	2800	mg/kg	0.10		0.82	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10		6.0	< 0.10	0.15
Pyrene		M	2800	mg/kg	0.10		4.4	< 0.10	0.15
Benzo[a]anthracene		M	2800	mg/kg	0.10		3.1	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10		3.1	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		4.4	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		1.5	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10		3.0	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		1.9	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		0.50	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		2.0	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0		35	< 2.0	< 2.0

Results - Soil

Project: Merthyr Incline

Client: Terra Firma				**Chemtest Job No.:**		24-18074	24-18074	24-18074
Quotation No.:				**Chemtest Sample ID.:**		1818280	1818281	1818282
Order No.: 24-211-CA				Client Sample Ref.:		TP04	TP05	TP06
				Client Sample ID.:		TP04	TP05	TP06
				Sample Type:		SOIL	SOIL	SOIL
				Top Depth (m):		0.30	0.20	1.00
				Date Sampled:		30-May-2024	30-May-2024	30-May-2024
				Time Sampled:		12:00	12:00	12:00
				Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**			
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Organic Matter BS1377		N	2930	%	0.10	1.7	0.90	2.7

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
2930	Organic Matter	Organic Matter	Acid Dichromate digestion/Titration	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

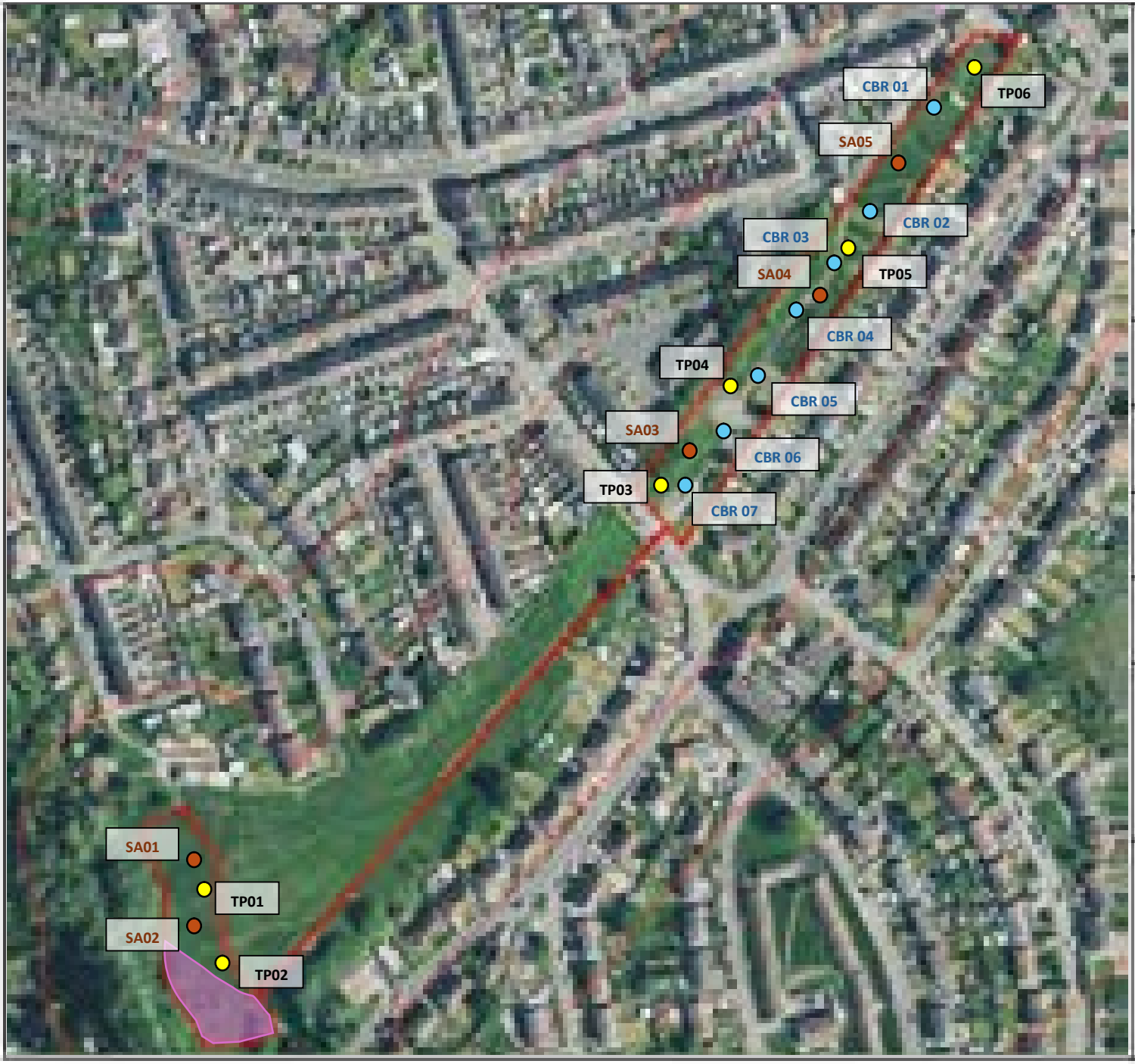
NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

DRAWINGS



terrafirma

Job Number:
TF-24-211-CA

Job Title:
Merthyr Incline

Drawing Title:
Exploratory Hole Locations

Drawing Number:
01

Scale:
Not To Scale

Legend:
- Trial Pit Location
- Trial Pit/Soakaway Location
- CBR Location
- Area Inaccessible

North

terra firma