

**GEOTECHNICAL &
GEO- ENVIRONMENTAL REPORT**
Parc Newydd
Britton Ferry
Neath

Prepared for:
Tai Tarian Ltd

December 2019

Job No: 14396/3

REPORT TITLE : **Geotechnical and Geo-environmental**
Report: Parc Newydd, Britton Ferry
Neath

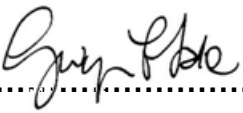
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Executive Summary

Tai Tarian Ltd are proposing a residential development at the site of an existing housing estate at Brynhyfryd, Britton Ferry.

The site currently comprises a group of flats with gardens/landscaped areas and parking.

The site is underlain by rocks of the Upper Coal Measures with a superficial cover of boulder clay. A subsidence risk from shallow mining was identified by the Coal Authority. Probe drilling revealed the presence of several thin coal seams within 30m of the surface although none of these were worked. Probe drilling did not identify a Coal Mining Risk.

Terra Firma Wales Ltd conclude that the site presents a low risk of ground gas.

A site investigation comprising five trial pits was undertaken. The ground conditions beneath the site were found to comprise a mantle of made ground over firm, becoming stiff, clay deposits with occasional gravels (boulder clay).

Soil Chemical Testing detected three incidents of elevated arsenic, lead, PAH and TPH. Asbestos fibres and fibres in bitumen were detected in one sample, along with cement ACM. Capping is recommended to deal with this issue. Potentially volatile fractions were encountered in the black ashy made ground beneath the existing buildings and we recommend that this soil not be employed beneath the new buildings or, alternatively, screen to prove it 's suitable for use.

An Envirocheck Report for the site revealed that No Radon Protection is required for new development at the site.

Mass concrete strip foundations extended into the stiff clay, should perform satisfactorily with foundation loads of 125 kN/m². Floor slabs should be designed as suspended. The natural soil was found to have a Modified Plasticity Index of between 11.9% and 17.5%. Reference should be made to Section 4.2 of NHBC Standards to determine foundation depth in the vicinity of trees.

TABLE OF CONTENTS

Section 1 Introduction and Proposed Development

- 1.1 Limitations and Exceptions of Investigation

Section 2 Review of Existing Data

- 2.1 Physical Setting, Current Use and Site Conditions
- 2.2 Site History
- 2.3 Geological
 - 2.3.1 Geology
 - 2.3.2 Coal Mining
 - 2.3.3 Radon
- 2.4 Environmental Setting
 - 2.4.1 Hydrogeology and Hydrology
 - 2.4.2 Flooding
 - 2.4.3 Waste
 - 2.4.4 Trade Directory Entries

Section 3 Preliminary Qualitative Human Health and Environmental Risk Assessment

- 3.1 General
- 3.2 Preliminary Site Conceptual Model
 - 3.2.1 Potential Sources of Contamination and Gas
 - 3.2.2 Potential Receptors, Pathways and Risks

Section 4 Field Investigation

- 4.1 Site Works
- 4.2 Ground Conditions
- 4.3 Groundwater
- 4.4 Laboratory Chemical Testing
 - 4.4.1 Exploratory Strategy and Sampling Regime
 - 4.4.2 Soil Laboratory Analysis

Section 5 Soil Analytical Results

- 5.1 Soil Assessment Methodology
- 5.2 Soil Test Results

Section 6 Quantitative Risk Assessment

- 6.1 Contaminants of Concern in Soil
- 6.2 Potential Receptors and Pathways
 - 6.2.1 Human Receptors
 - 6.2.2 Aquatic Environment
- 6.3 Mitigation and Remedial Measures
 - 6.3.1 Site Workers
 - 6.3.2 Neighbouring Site Users
 - 6.3.3 Site End Users
 - 6.3.4 Aquatic Environment
- 6.4 Site Conceptual Model

TABLE OF CONTENTS (Continued)

Section 7 Engineering Recommendations

- 7.1 Preparation of Site
- 7.2 Foundation and Floor Slab Solution
- 7.3 Excavations and Formations
- 7.4 Car Parking Areas
- 7.5 Re-Use and Disposal of Soils
- 7.6 Protection of Buried Concrete
- 7.7 Geotechnical Testing
- 7.8 Soil Soakage Testing

Figures

- Figure 2.1 Site Location
- Figure 3.1 Extract of 1949 Map Edition (NTS)
- Figure 3.1 Ground Gas SCM
- Figure 4.1 Exploratory Hole Locations
- Figure 6.1 Site Conceptual Model

Tables

- Table 2.1 Historical Map Review
- Table 4.1 Summary of Ground Conditions
- Table 4.2 Sample Locations and Depths
- Table 5.1 Summary of Soil Chemical Test Results - Standard Suite
- Table 5.2 Summary of Soil Chemical Test Results - Speciated PAH
- Table 5.3 Summary of Soil Chemical Test Results - Speciated PH
- Table 6.1 Potential Sources, Pathways and Receptors

Plates

- Plate 5.1 Corrugates Asbestos Cement, TP03, 0.4m
- Plate 6.1 Example of black ashy made ground from beneath former floor-slab

Annexes

- Annex A Envirocheck Report
- Annex B Coal Authority Mining Report
- Annex C Risk Assessment Definitions
- Annex D Trial Pit Logs
- Annex E Rotary Probehole Logs
- Annex F Soil Chemical Test Results
- Annex G Geotechnical Test Results
- Annex H TRL Probe Results

SECTION 1 Introduction and Proposed Development

Tai Tarian Ltd are proposing the redevelopment of housing at Parc Newydd, Britton Ferry, Neath.

Terra Firma (Wales) Limited has been commissioned by Roger Casey Associates, on behalf of Tai Tarian Ltd, to undertake a geo-environmental assessment and geotechnical investigation of the site.

Morganstone Construction Limited have been nominated to construct the development.

The main objectives of the geo-environmental assessment programme were to:

- Identify the potential environmental liabilities at the site associated with any soil contamination from past site uses.
- Provide a summary of the environmental conditions at the site, together with any necessary remediation works to render the site fit for its intended use.
- Provide recommendations with regard to radon.

The main objectives of the geotechnical site investigation were to:

- Determine the type, strength and bearing characteristics of the shallow superficial deposits and underlying solid geology.
- Provide recommendations for a suitable and economic foundation/floor slab solution for the development.
- Provide recommendations with regard to any other geotechnical aspects pertaining to the development such as coal mining risk.

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a review of existing data, followed by a field investigation to determine the prevailing ground conditions and also to collect and analyse soil samples from selected locations around the site.

1.1 Limitations and Exceptions of Investigation

The geo-environmental and geotechnical investigation was conducted and this report has been prepared for the sole internal reliance of Tai Tarian Ltd 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 Terra Firma (Wales) 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 geo-environmental and geo-technical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may also 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 the presence of existing flats and buried services.

SECTION 2 Review of Existing Data

2.1 Physical Setting, Current Use and Site Conditions

The site locates at the northern end of the Brynhyffryd Estate, off Parc Newydd, Britton Ferry, and is centred on an approximate National Grid Reference of 273810, 195420. It occupies an approximate plan area of 0.72 hectares and is irregular in shape. The location of the site is presented in **Figure 2.1**.



Figure 2.1: Site Location (NTS)

The site was visited on 23rd January 2018 and was seen to comprise several blocks of flats with landscaped areas to the front and rear of the flats. A hard-standing parking area locates in the west of the site.

2.2 Site History

The history of the site has been traced using historical Ordnance Survey maps obtained from Landmark Information Group. The maps are presented in **Annex A**. A summary of the sites history is presented in **Table 2.1**;

Table 2.1. Historical Map Review		
Dates	On-Site	Off-Site
1878/1882	Undeveloped Fields	A track locates immediately east of the site. Coedsart Farm locates 80m NE of site. The Neath Canal locates 280m west of the site. Great Western Railway locates 310m east of the site. A quarry lies 465m southwest of the site. A cemetery locates 312m southwest of the site. The River Neath locates 817m southwest and west of the site.
1899/1900	As Previously	Great Western Railway Locomotive Repair Works locates 250m NE of the site. An Isolation Hospital locates 515m S.W. of the site.
1918/1919/1921	As Previously	An 'Old' (i.e. defunct) Colliery locates 180m WSW of the site, with a slant trending SSW. An 'Old' Colliery locates 200m E.
1935/1941	As Previously	A Housing Estate locates 190m S of the site.
1945/1949	As Previously	Bryn Hyfryd Estate has expanded to within 50m S of the site. Overhead power lines locate 90m west of the site.
1954/1967 & 1964/1965	Site contains housing	Further Urban Development has occurred around the site. Hen Cwrt Primary School locates 170m E of the site.
1970/1974 & 1980/1983	As previously	As Previously
1987/1989	As Previously	The housing previously located north of Parc Newydd and Woodland Close have been demolished
1993	As Previously	As Previously
2000,2003,2006 ,2009 & 2018	As Previously	As Previously
Note: Distances are approximate		

2.3 Geological

2.3.1 Geology

The 1:10,560-scale geological map shows the site to be underlain by rocks of the Hughes Beds of the Upper Coal Measures. A coal seam is conjectured to outcrop beneath the site and its presence was confirmed in a well located immediately north of the site. Given the location of the seam in the Stratigraphic sequence it may be the Bodwr Seam, recorded as 3ft 6inches (1.07m) to 6ft in thickness (1.83m).

The Giants Grave Fault locates approximately 50m west of the site.

The bedrock is shown to have a superficial cover of Boulder Clay.

2.3.2 Coal Mining

A Coal Authority Mining Report was purchased for the site. The report revealed that the Coal Authority hold records of workings beneath the site located at 80m depth last worked in 1910.

There are no known coal mine entries within, or within 20 metres of, the boundary of the property. There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

In addition, the Coal Authority note that coal is believed to exist at, or close to, the surface and this may have been subject to unrecorded workings historically.

The geological map records coal within a well located immediately east of the site.

The Coal Authority Report is presented in **Annex B**.

2.3.3 Radon

The Envirocheck Report states that no radon protective measures are necessary in the construction of new dwellings or extensions

A copy of the Envirocheck Report is included in **Annex A**.

2.4 Environmental Setting

2.4.1 Hydrogeology and Hydrology

The Envirocheck Report records that the bedrock beneath the site is classified as a Secondary A Aquifer.

The superficial deposits are classified as Unproductive Strata.

2.4.2 Flooding

The Envirocheck agency and Hydrological Map shows a portion of the north of the site to be affected by flooding from Zone 2 flooding (Extreme Flooding from Rivers and Sea without defences).

A site specific Flood Risk Assessment should be performed for the site by an appropriate specialist.

2.4.3 Waste

The Envirocheck Report records one tip located at 248m from the site relating to Giants Grave Tip. The tip was recorded as receiving Inert, Industrial, Commercial, Household and Special Waste. The tip operated between 1962 and 1993.

The tip locates on deposits of estuarine alluvium and given the local ground conditions and the distance we do not expect potential landfill gas from the tip to impact on the study site.

An area of a potentially in-filled former water feature locates 60m northwest of the site.

2.4.4 Trade Directory Entries

The Envirocheck Report records four Contemporary Trade Directory Entries within 250m of the study site. These are detailed in **Annex A**.

SECTION 3 Preliminary Qualitative Human Health and Environmental Risk Assessment

3.1 General

The contaminated land regime is set out in Part IIA 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 IIA was introduced to achieve two aims:

- (1) The identification of contaminated land
- (2) The remediation of contaminated land that poses an unacceptable risk to human health and/or the environment

Under Part IIA 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."

For land to be classified as 'Contaminated Land' there must be a 'pollutant linkage'.

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.

3.2 Preliminary Site Conceptual Model

The preceding sections enable a preliminary conceptual model of the site to be drawn up, to illustrate the likely ground conditions beneath the site together with a preliminary assessment of the nature of any underlying aquifer and groundwater movement. The preliminary site conceptual model is used as a model for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the site as a whole.

3.2.1 Potential Sources of Contamination and Gas

The potential contamination beneath the site, whether in the matrix of soil or any groundwater will be related to site past use and the history of the surrounding area.

Historical map review has revealed that the site was undeveloped until residential properties were constructed c. 1950/1960.

We would therefore consider there to be a **low risk** of contamination being present at the site although given the age of the previous buildings asbestos may be present. An asbestos assessment of the existing buildings should be performed prior to demolition.

We would consider that there are three principal potential sources of gas that could be considered in a risk assessment;

Landfill Gas

Our desk study review has revealed on tip whose boundary extended within 250m of the study site, Giants Grave Tip, which located 248m from the site and ceased operation in 1993. The tip locates upon deposits of estuarine alluvium, which is characterised by low-permeability silt/clay dominated deposits. In addition, the landfill locates on former 'saltings' (i.e. an area that is frequently covered by tidal waters) and thus a very shallow groundwater table can be expected. Beyond the alluvium, the site itself locates on boulder clay which itself was seen to be a low permeability deposit, dominated by silt and clay fractions. Soakaway testing (See **Section 7.8**) confirmed that these deposits were impermeable.

We would therefore consider this risk to be negligible.

Natural Soil Gas

Natural deposits with high soil organic content, such as peat, can potentially serve as a source of gas. Natural peat deposits are sometimes encountered in estuarine alluvium although it is our experience of these deposits that the gas contained therein is contained within the peat bands by the surrounding silt/clay and such sources do not even affect the surface immediately above unless an artificial pathway is created (i.e. deep foundations).

The boundary of the alluvium locates over 100m north of the site and is separated from the site by low permeability boulder clay. There was no evidence of a gas source within the boulder clay observed during the site investigation. We would therefore consider this risk to be negligible.

Coal Mine Gas

The Coal Authority do not hold records of mine entrances within the site, or 20m of the site and hold records of workings in one seam at a depth of 80m, last worked in 1910. Historical Map Review identified two former mine entrances within 250m of the site, a slant located 180m WSW of the site and a shaft located 200m E of the site. Both were described as 'Old' (i.e. defunct) on the 1918 map edition. Low permeability boulder clay separated these entrances from the study site. The Giants Grave Fault is conjectured to locate approximately 70m west of the site. Coal Mining would not typically extend into fault zones.

During the rotary drilling Terra Firma Wales Ltd were required, by the Coal Authority, to perform gas monitoring at the tops of the boreholes using a GA2000 Gas Analyser and drillers were required to wear gas alarms. CO₂, CH₄ and CO were not detected during this exercise.

Rotary drilling to a depth of 30m below surface level only encountered thin coal seams, between 0.1m and 0.5m thickness, all of which were un-worked. Given the shallow groundwater table beneath the site (the site locates at an elevation of approximately 8m above sea level, the worked seam, located at 80m depth, will be flooded. Krause and Pokryszka (2013) suggest that following the cessation of mining activity methane emissions diminish over a period of up to 15 years, after which it ceases. Schultz and Adler (2015) reiterate this point, describing the decline as hyperbolic over time. Flooding of a de-stressed methane bearing coal seam has been observed as causing a drop in the intensity of methane desorption as a result of the hydrostatic pressure and filling routes of gas migration with water. We assume the workings are flooded as the site locates at an elevation of approximately 8m above sea level and any workings located within the Secondary Aquifer would, therefore, locate below sea level and be subject to considerable hydrostatic head pressure.

The presence of shallow ground water is also evident in Historical Map Editions dated between 1881 – 1949 (i.e. pre-development of the broader area), which indicate a well located immediately northeast of the site which has an associated water course running from it (**Figure 3.1**)

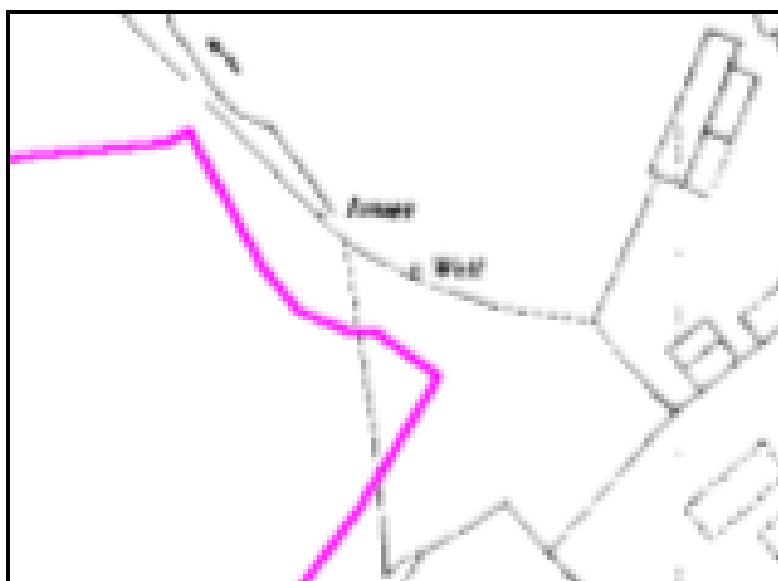


Figure 3.1. Extract of 1949 Map Edition showing Well and Issue (NTS)

3.2.1 Potential Sources of Contamination and Gas (Continued)

We would consider the risk from coal mine gas to be negligible. A Gas Site Conceptual Model is presented in **Figure 3.2.**

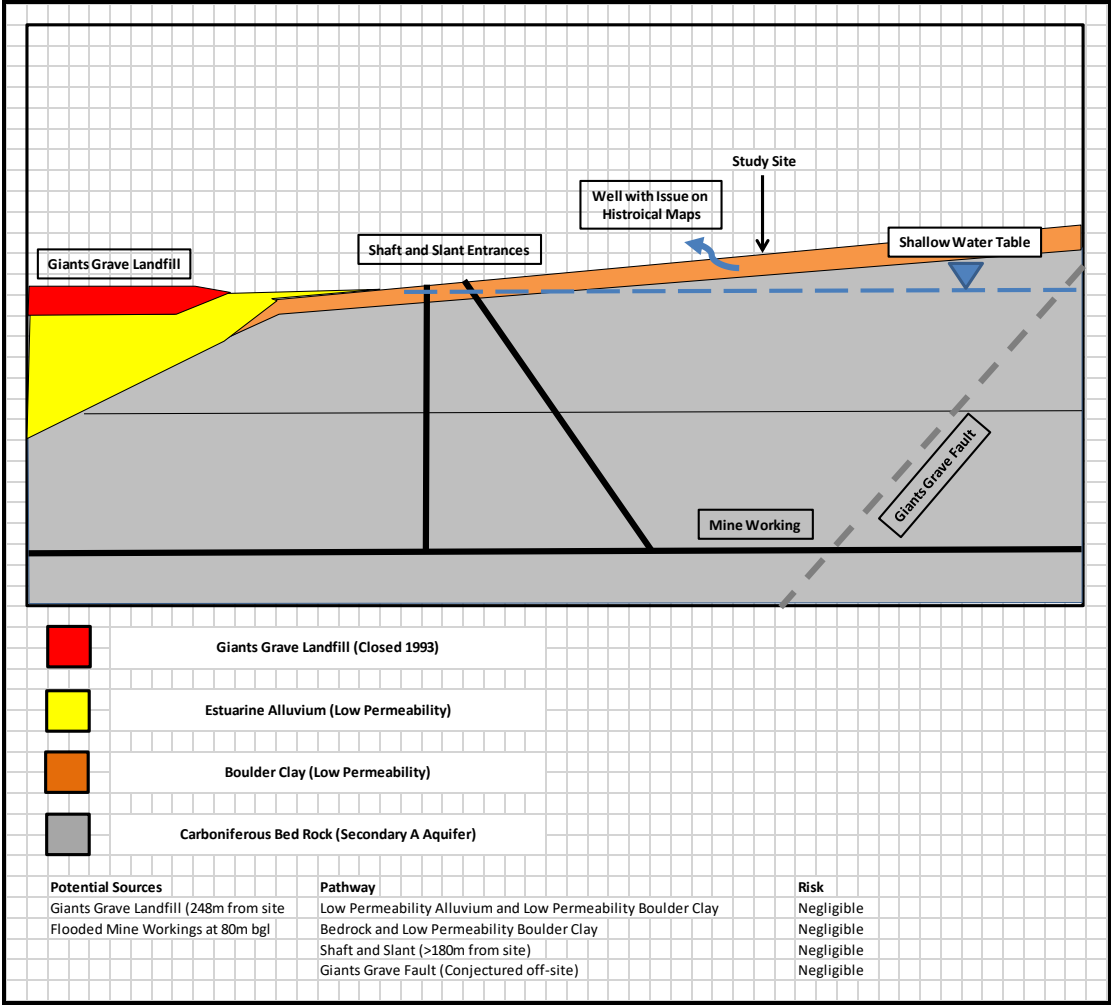


Figure 3.2. Ground Gas SCM

3.2.2 Potential Receptors, Pathways and Risks

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

Construction workers will be excavating in soils and will be exposed via dermal contact with soils and dust, ingestion of soil dust and inhalation of soil dust.

Inhalation of asbestos fibres is also a possible risk, if present in the made ground, as is inhalation of vapours.

A residential end use is proposed. Once developed, future site users will potentially be at risk from the same pathways.

Neighbouring site users and passers-by may potentially be exposed to soil dust, asbestos fibres and vapours.

If any contamination is identified this may be leachable, enabling it to mobilise through perched groundwater within site soils.

SECTION 4 Field Investigation

4.1 Site Works

A geotechnical and geo-environmental site investigation was carried out on 23rd January 2018 comprising 5 No. Trial Pits. Soakaways were performed in the pits during the investigation. Four CBR s were performed using a TRL Probe.

On 12th August 2019 three machine excavated trial pits were performed within the footprint of the existing building.

On 23rd October 2019 7 No. machine excavated trial pits were performed to permit additional chemical analysis. On 28th November 2019 4 No. Trial Pits were performed within the footprint of the former buildings, post demolition to supplement previous investigations following the discovery of potentially volatile hydrocarbons beneath the existing floor-slab.

The fieldworks were supervised by Terra Firma (Wales) Limited.

Trial pits were performed using a JCB 3CX or, internally, a mini-digger.

The trial pit logs are presented in **Annex D**.

Between 27th and 28th March 2018 four Rotary Probe Boreholes were undertaken at the site to assess the coal mining risk.

Rotary Probe Borehole Logs are presented in **Annex E**.

The trial pit and rotary borehole positions are given on **Figure 4.1**.

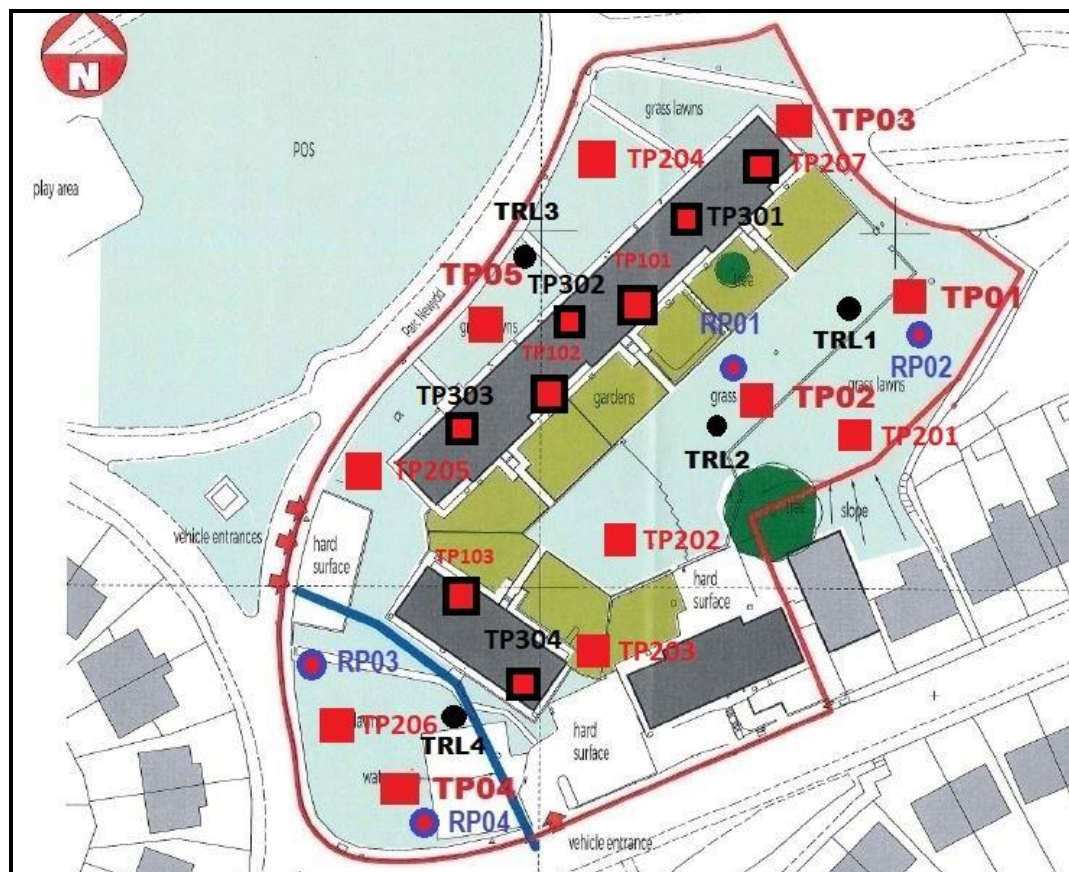


Figure 4.1. Exploratory Hole Locations

4.2 Ground Conditions

A summary of the ground conditions identified in the trial pits is given in **Table 4.1** below.

Table 4.1 Summary of Ground Conditions		
Depth (m)	Thickness (m)	Stratum
0.00 - 0.40/1.20	0.40/1.20	MADE GROUND: Brown, variably sandy, variably gravelly CLAY to black sandy gravel.
0.40/1.20 - >2.50	>2.50	BOULDER CLAY: Firm to stiff, yellow brown to grey sandy very gravelly SILT/CLAY with occasional cobble of rounded sandstone.
INTERNAL		
0.00 - >0.75/0.95	0.95	MADE GROUND: Concrete over black, clayey sandy GRAVEL to cobble including brick, concrete sandstone and slag.
0.70 - >1.00	-	BOULDER CLAY: Brown, sandy, very slightly gravelly CLAY

4.3 Groundwater

Minor groundwater ingress was noted in TP04 at 0.55m. Surface water was holding at TP02. Given the site elevation (c. 8m AOD) and the sites proximity to the estuary, Terra Firma Wales Ltd anticipate that groundwater will lie at shallow depth beneath the site. Historical maps pre-dating 1949 indicated a well and an issue located to the northeast of the site.

4.4 Laboratory Chemical Testing

4.4.1 Exploratory Strategy and Sampling Regime

During the intrusive investigation, small disturbed soil samples were collected.

The sample locations and depths are listed in the following table.

Table 4.2 Sample Locations and Depths	
Sample	Depth (m)
External Trial Pits	
TP01	0.20
TP01	1.20
TP02	0.20
TP03	0.40
TP04	0.35
TP05	0.20
TP201	0.20
TP202	0.30
TP203	0.20
TP204	0.40
TP205	0.30
TP206	0.30
Internal Trial Pits	
TP101	0.30
TP101	0.70
TP102	0.30
TP103	0.70
TP207	0.40
Internal Area (Post Demolition)	
TP301	0.40
TP302	0.40
TP303	0.40
TP304	0.40

A fragment of sheet material was encountered in TP03 at 0.4m. This was submitted for asbestos screening. In addition, a sample of made ground from TP03, 0.8m was submitted for asbestos screening to determine if asbestos had impacted the deeper made ground.

4.4.2 Soil Laboratory Analysis

The soil samples taken were despatched to the laboratories of Derwentside Environmental Testing Services Limited.

The following chemical tests were undertaken:

Metals and Metalloids

Lead
Arsenic
Mercury
Chromium
Copper
Nickel
Zinc
Boron
Beryllium
Antimony

In-Organics

Cyanide
Sulphate

Others

pH (acidity)
Organic Matter
Asbestos Screening

Organic Chemicals

Phenol
Polycyclic Aromatic Hydrocarbons (PAHs)
Petroleum Hydrocarbons

The laboratory soil chemical test results are presented in **Annex F**.

SECTION 5 Soil Analytical Results

5.1 Soil Assessment Methodology

Comparison of the analytical results have been made with Generic Assessment Criteria (GAC) for a residential setting with plant uptake published by Suitable 4 Use Levels (S4ULs) provided by Land Quality Management Limited, and Category 4 Screening Levels (C4SLs).

Sulphate results have been compared to British Research Establishment (BRE) guidelines as sulphate levels need only be considered for buried concrete risk assessment only, not human health related.

5.2 Soil Test Results

Table 5.1 Summary of Soil Chemical Test Results Standard Suite					
Substance	SGV/ GAC/ S4UL (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Number of exceedences
			Minimum	Maximum	
Arsenic	37	S4UL	12	120	10/21
Cadmium	11	S4UL	<0.1	3.1	0 of 21
Chromium III	910	S4UL	6.5	370	0 of 21
Chromium VI	6	S4UL	<0.5	<1.0	0 of 21
Copper	2400	S4UL	21	1000	0 of 21
Lead	200	C4SL	13	1400	3 of 21
Mercury	40	S4UL	<0.05	1.10	0 of 21
Nickel	180	S4UL	13	65	0 of 21
Selenium	250	S4UL	<0.2	1.4	0 of 21
Zinc	3700	S4UL	36	3000	0 of 21
Cyanide	8	CLEA	<0.1	1.1	0 of 21
Organic matter	-		1.0	7.5	-
Sulphate	-	-	300	9,700	-
pH	-		6.9	10.0	-
Phenol	120	S4UL	<0.3	0.6	0 of 21
Total PAH	-		<0.10	76	*

Notes

- *See speciated PAH results (Table 5.2)

5.2 Soil Test Results (Continued)

A summary of the speciated PAH results are given in **Table 5.2** below.

Table 5.2 Summary of Soil Chemical Test Results Speciated PAH					
Substance	GAC (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Exceedences
			Minimum	Maximum	
Naphthalene	2.3	S4UL	<0.03	22	1 of 21
Acenaphthylene	170	S4UL	<0.03	2.6	0 of 21
Acenaphthene	210	S4UL	<0.03	7.1	0 of 21
Fluorene	170	S4UL	<0.03	6.8	0 of 21
Phenanthrene	95	S4UL	<0.10	49	0 of 21
Anthracene	2400	S4UL	<0.03	11	0 of 21
Fluoranthene	280	S4UL	<0.03	70	0 of 21
Pyrene	620	S4UL	<0.03	70	0 of 21
Benzo(a)anthracene	7.2	S4UL	<0.03	37	4 of 21
Chrysene	15	S4UL	<0.03	31	2 of 21
Benzo(b)fluoranthene	2.6	S4UL	<0.03	40	7 of 21
Benzo(k)fluoranthene	77	S4UL	<0.03	16	0 of 21
Benzo(a)pyrene	2.2	S4UL	<0.03	37	6 of 21
Indeno(123cd)pyrene	27	S4UL	<0.10	23	0 of 21
Dibenzo(ah)anthracene	0.24	S4UL	<0.03	3.2	8 of 21
Benzo(ghi)perylene	320	S4UL	<0.03	21	0 of 21

Notes:

- GAC based on 1% soil organic matter content (SOM)

5.2 Soil Test Results (Continued)

All made ground samples were screened for asbestos. Asbestos was detected in Sample TP03, 0.4m. This was identified as chrysotile asbestos in bitumen. Quantified asbestos analysis revealed that the asbestos was in a microscopic fragment of bitumen and that asbestos made up <0.001% wt/wt of the mass of the soil sample.

The corrugated sheet material was also identified in TP03, 0.4m and this was identified as chrysotile asbestos cement (**Plate 5.1**).



Plate 5.1. Corrugated Asbestos Cement, TP03, 0.4m

During the ground investigation performed on 23rd October 2019 asbestos was detected in TP202, 0.3m. Quantification revealed the material comprised chrysotile and amosite insulation and this constituted 0.008% of the soil mass.

5.2 Soil Test Results (Continued)

A summary of the speciated Petroleum Hydrocarbon results are given in **Table 5.3** below.

Table 5.3 Summary of Soil Chemical Test Results Speciated Petroleum Hydrocarbons					
Substance	GAC (mg/kg)	Source	Measured Concentrations of Tested Substances (mg/kg)		Exceedences
			Minimum	Maximum	
ALIPHATIC					
C5 – C6	42	S4UL	<0.01	<0.01	0 of 21
C6 – C8	100	S4UL	<0.01	<0.01	0 of 21
C8 – C10	27	S4UL	<0.01	410	1 of 21
C10 – C12	130	S4UL	<1.0	14	0 of 21
C12 – C16	1100	S4UL	<1.0	23	0 of 21
C16 – C21	65000	S4UL	<1.5	48	0 of 21
C21 – C35	65000	S4UL	<3.4	470	0 of 21
AROMATIC					
C5 – C7	70	S4UL	<0.01	<0.01	0 of 21
C7 – C8	130	S4UL	<0.01	<0.01	0 of 21
C8 – C10	34	S4UL	<0.01	13	0 of 21
C10 – C12	74	S4UL	<0.9	250	1 of 21
C12 – C16	140	S4UL	<0.5	160	1 of 21
C16 – C21	260	S4UL	<0.6	460	2 of 21
C21 – C35	1100	S4UL	<1.4	1700	2 of 21

Notes:

- GAC based on 1% soil organic matter content (SOM)

SECTION 6 Quantitative Risk Assessment

6.1 Contaminants of Concern in Soil

It can be seen from Section 5 that all determinants tested were present at concentrations below the published Generic Assessment Criteria for a residential setting with the exception of ten incidents of elevated arsenic three incident of elevated lead and incidents of elevated PAH and TPH species. Exceedances are listed in **Table 6.1**.

Table 6.1. Summary of Recorded Exceedances			
Determinant	GAC (mg/kg)	Location	Concentration (mg/kg)
EXTERNAL			
Arsenic	37	TP01, 0.20m	62
		TP02, 0.20m	48
		TP04, 0.35m	120
		TP201, 0.20m	97
		TP202, 0.30m	38
		TP205, 0.30m	67
Lead	200	TP03, 0.40m	250
		TP201, 0.20m	1,400
		TP202, 0.30m	400
Benzo(b)fluoranthene	2.6	TP203, 0.20m	7.6
Benzo(a)pyrene	2.2	TP203, 0.20m	5.8
Dibenzo(ah)anthracene	0.24	TP203, 0.20m	0.91
		TP206, 0.30m	0.60
INTERNAL			
Arsenic	37	TP101, 0.30m	48
		TP102, 0.30m	64
		TP103, 0.70m	83
		TP301, 0.40m	76
Ali C8 – C10	27	TP207, 0.40m	410
Aro C10 – C12	74	TP102, 0.30m	250
Aro C12 – C16	140	TP102, 0.30m	160
Aro C16 – C21	260	TP102, 0.30m	430
		TP207, 0.40m	460
Aro C21 – C35	1100	TP102, 0.30m	1700
		TP207, 0.40m	1700
Naphthalene	2.3	TP101, 0.3m	22
		TP101, 0.7m	5.5
Benzo(a)anthracene	7.2	TP101, 0.3m	37
		TP101, 0.7m	17
		TP102, 0.30m	13
		TP103, 0.70m	7.3
Chrysene	15	TP101, 0.3m	31
		TP101, 0.7m	17
Benzo(b)fluoranthene	2.6	TP101, 0.3m	40
		TP101, 0.7m	21
		TP102, 0.30m	16
		TP103, 0.70m	13
		TP207, 0.40m	2.9
		TP302, 0.40m	5.6
Benzo(a)pyrene	2.2	TP101, 0.3m	37
		TP101, 0.7m	20
		TP102, 0.30m	17
		TP103, 0.70m	13
		TP302, 0.40m	3.7
Dibenzo(ah)anthracene	0.24	TP101, 0.3m	3.2
		TP101, 0.7m	2.0
		TP102, 0.30m	1.9
		TP103, 0.70m	1.5
		TP207, 0.40m	0.45
		TP303, 0.40m	0.32

* - Potentially volatile species highlighted in orange.

6.1 Contaminants of Concern in Soil (Continued)

Asbestos was encountered in TP03, 0.4m as a fragment of ACM and chrysotile fibres in bitumen.

Asbestos was encountered in TP202, 0.30m. Quantification revealed this to constitute 0.08% of the sample mass.

6.2 Potential Receptors and Pathways

6.2.1 Human Receptors

Construction workers may be in intimate contact with the site soils and are potentially at risk from exposure to determinants within the made ground through dermal contact, ingestion and inhalation pathways.

Neighbouring site users and passers-by are potentially exposed to soil dust and asbestos during earthworks.

Future site users could potentially be exposed to elevated lead and arsenic and hydrocarbons (including volatile fractions) and the presence of asbestos could potentially pose a risk to future site visitors and workers.

6.2.2 Aquatic Environment

Although Residential Generic Assessment Criteria have been exceeded recorded levels are not considered excessive. In addition, the superficial deposits beneath the site have been proven to be impermeable. We would not, therefore, consider the site to pose a significant risk to the aquatic environment.

6.3 Mitigation and Remedial Measures

6.3.1 Site Workers

In order to protect construction workers good site management, COSHH, good standards of hygiene and appropriate health & safety on site should be adhered to, with personal protection equipment (PPE) and dust suppression where appropriate. The elected contractor should provide their own risk assessment to mitigate these risks.

6.3.2 Neighbouring Site Users

Appropriate dust suppression should be employed to prevent the migration soil dust and asbestos during the earthworks phase.

6.3.3 Site End Users

The presence of elevated arsenic, lead, PAH, TPH and asbestos fibres in the soil necessitates the use of capping in the form of hard standing and, in landscaped areas, a no-dig barrier and a minimum of 600mm of 'clean' soil, conforming to contemporary Generic Assessment Criteria (GAC).

Potentially volatile hydrocarbon species (naphthalene, Aliphatic C8 – C10 and Aromatic C10 – C12) were identified in the ashy made ground fill located beneath the existing block (TP101, TP102 and TP207). Whilst P.I.D. screening during the investigation did not detect vapours we would recommend that, as a precaution, this material is not placed beneath any of the new residential developments. This material is distinct in appearance compared with the natural boulder clay and other made ground materials encountered elsewhere on the site, being very dark/black and predominantly granular (See **Plate 6.1**)



Plate 6.1. Example of black ashy made ground from beneath former floor-slab

6.3.3 Site End Users (Continued)

Not all samples of this material were found to contain volatile compounds and if it becomes necessary to re-use this material, it should be thoroughly screened and tested to isolate the impacted portion for isolation/disposal

A Potable Water Supply Pipe Material Assessment should be carried out by the water provider.

If during development works any other unexpected ground conditions or evidence of contamination is found, inspection by a geo-environmental engineer should be made, and any required testing or investigation carried out prior to continuation of works.

6.3.4 Aquatic Environment

There are not considered to be significant risks to the aquatic environment from site soils. The boulder clay horizon has been confirmed as impermeable by soakage testing.

During the construction period, there is a risk to the environment/adjacent sites from de-watering, digging foundations, moving 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 accidentally 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

6.4 Site Conceptual Model

A Site Conceptual Model is presented below;

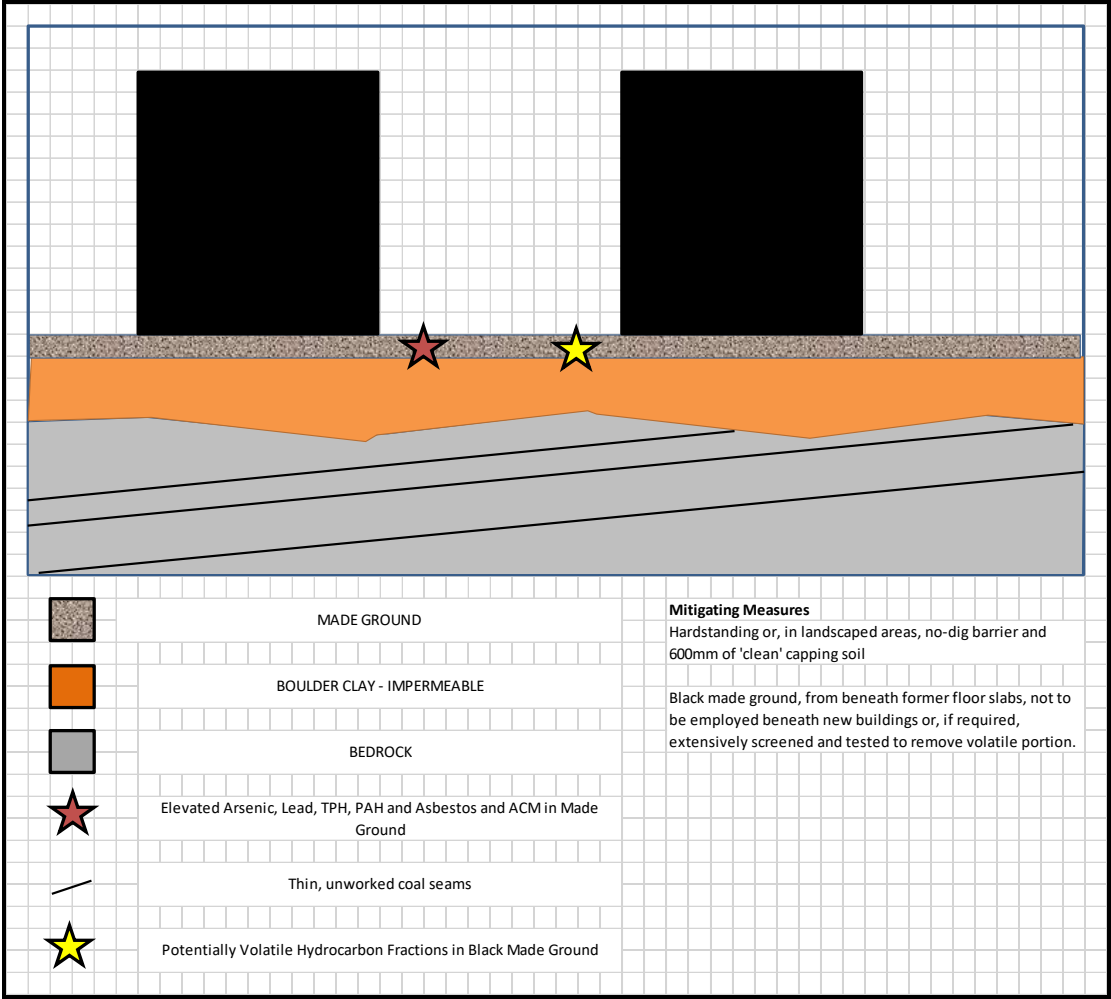


Figure 6.1. Site Conceptual Model

An assessment of Potential Sources, Pathways and Receptors is presented in **Table 6.1**;

6.4 Site Conceptual Model (Continued)

Table 6.1. Potential Sources, Pathways and Receptors			
Potential Source	Pathways	Receptor	Mitigating Measures and Residual Risk
Soil Contamination*	Inhalation, Ingestion, Dermal Contact	Ground Workers	Negligible following; Appropriate PPE, Dampening
	Inhalation	Neighbouring Sites	Negligible following; Dampening during earthworks
	Inhalation, Ingestion, Dermal Contact, Plant Uptake	Future Site Users	Negligible following; Capping of site with 600mm of 'clean' soils and no-dig barrier. Black Ashy Made ground from beneath the existing block should not be used beneath building footprints or be screened to ensure the absence of volatile hydrocarbons.
	Leaching to Groundwater – Unlikely as boulder clay impermeable	Controlled Water	Negligible Risk as contamination levels relatively low and boulder clay proven impermeable
	Potable Water Supply	Future Site Users	Negligible following Potable Water Supply Material Assessment
Ground Gas from Landfill	Low Permeability Alluvium, Low Permeability Boulder Clay and shallow Groundwater Table	Future Site Users	Negligible Risk due to distance and lack of pathways
Ground Gas from Superficial Deposits	Low Permeability Alluvium, Low Permeability Boulder Clay and shallow Groundwater Table	Future Site Users	Negligible due to nature of soil beneath site and distance to alluvium/lack of pathway
Mine Gas	Flooded Working, Bedrock and Low Permeability Boulder Clay	Future Site Users	Negligible due to age of workings, flooding and lack of pathway
Radon	Bedrock/Boulder Clay	Future Site Users	Envirocheck Report states that no radon protective measures are necessary in the construction of new dwellings or extensions

SECTION 7 Engineering Recommendations

7.1 Preparation of Site

Probe drilling identified a number of thin un-worked coal seams beneath the site. A shallow coal mining risk was not identified during probe drilling.

Any vegetation or trees, including roots, and topsoil should be stripped from beneath the proposed development area.

Allowances should be made for removing any 'soft spots/areas' as well as any buried obstructions that may remain.

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

Contingencies should also be made for the protection and any necessary temporary/permanent support of structures on adjacent to the site.

Any reduced levels should be brought up to the required levels with well compacted imported granular materials. Department of Transport (DoT) Type 2 sub-base or similar may be used and should be compacted in layers, in accordance with the Specification for Highway Works.

All materials to be removed from site should be taken to an appropriately licensed landfill facility. In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 (v. 1/2015) soils and other materials destined for off-site disposal should be classified on the basis of their hazard phrases prior to disposal.

7.2 Foundation and Floor Slab Solution

The ground investigation encountered clays which were firm to stiff at between 0.4m and 1.2m bgl. We would recommend that traditional mass concrete strip foundations, extending to the stiff clay deposits should function satisfactorily with foundation loads of 125 kN/m², at which intensity total settlement should not exceed 30mm and differential settlement should not lead to structural distortion in excess of 1:750.

Geotechnical testing recorded a Modified Plasticity Index ranging from 12% and 18%. Reference should be made to Chapter 4.2 of NHBC Guidelines when determining minimum foundation depths in the vicinity of trees. Geotechnical test results are presented in **Annex G**.

Foundations should, as a minimum, extend at least 900mm below ground level to avoid thermal influences/weathering. In addition, reference should be made to Chapter 4.2 of NHBC Guidelines to determine foundation depths near trees.

Typical floor slabs should be designed as suspended

All foundation formations should be inspected by a suitably qualified Engineer.

7.3 Excavations and Formations

Shallow excavation should be possible using normal large excavating plant. Although provision should be made for the removal of obstructions such as former foundations. Bedrock was encountered between 2.50m and 6.50m bgl.

The sides of any excavations deeper than 1.0m should be supported by planking and strutting or other proprietary means.

The sub-formations/formations will 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. All formations should be inspected by a suitably qualified engineer before pouring.

Construction plant and other vehicular traffic should not be operated on unprotected formations. Allowances should be made for special precautions to prevent formation deterioration in addition to the above.

7.4 Car Parking Areas

CBR Tests were performed at the site using a TRL Probe. The results of the testing are presented in **Annex H**.

7.5 Re-Use and Disposal of Soils

If soils are to be re-used on-site for reprofiling we would recommend that this be performed in accordance with CL:AIRE DoWCoP. Re-use of soils off-site will require an appropriate permit or exemption.

Soils requiring off-site disposal should be classified according to Environment Agency Document WM3 to derive European waste Codes. Materials should be transferred by a licensed haulier. Waste Acceptance Criteria (WAC) Testing will be required for complete waste classification.

Soils containing visible Asbestos Containing Material (ACM) will be classified as Hazardous Mixed Waste until the ACM has been satisfactorily removed and validated.

7.6 Protection of Buried Concrete

Chemical testing recorded sulphate concentrations between 6.9 and 8.3. pH values ranged from 300 mg/kg to 900 mg/kg.

With reference to Table C2 of BRE SD1 the site falls into Design Sulphate Class DS-1, ACEC Class AC-1.

7.7 Geotechnical Testing

Two samples of boulder clay were submitted for plasticity determination. The testing revealed that the material had a modified plasticity index of 12 % and 17.5%. Reference should be made to Chapter 4.2 of NHBC Guidelines to determine founding depths in the vicinity of trees.

Geotechnical Test Results are presented in **Annex G**.

7.8 Soil Soakage Testing

Soakaway Tests were performed within the boulder clay during trial pitting. The natural boulder clay was proven to be impermeable.

REFERENCES

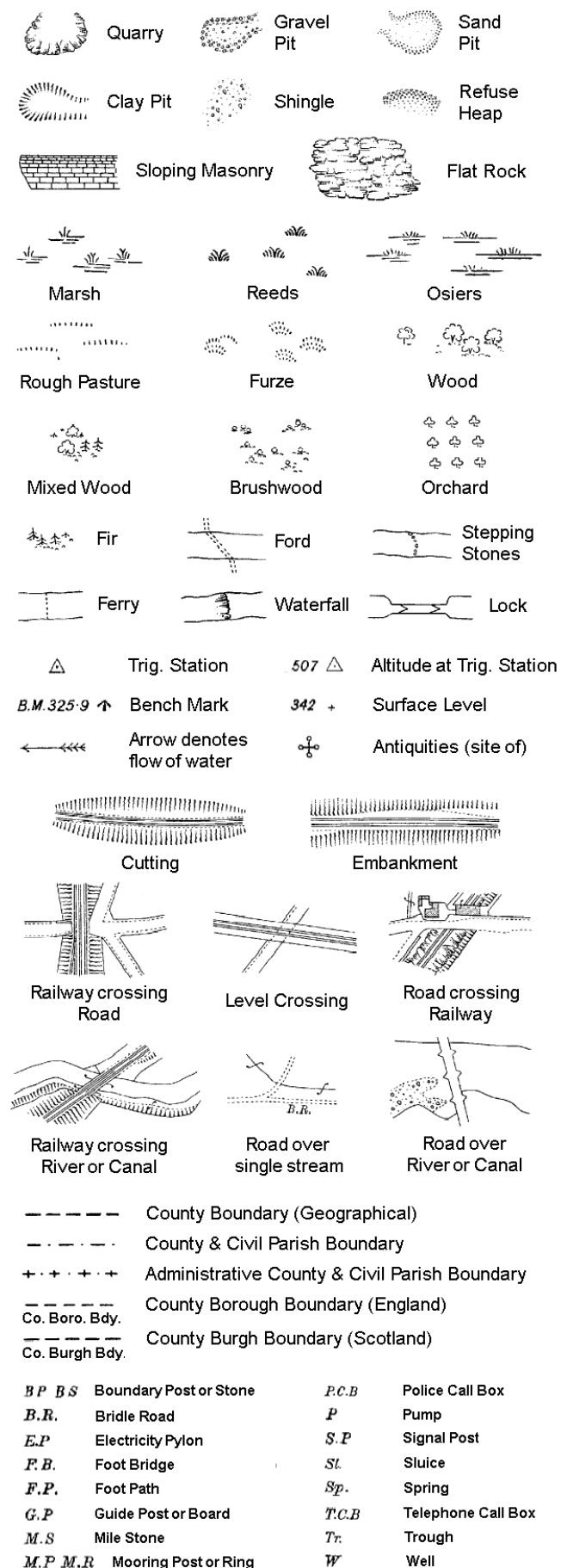
Krause, E., Pokryszka, Z. *Investigations on Methane Emission from Flooded Workings of Closed Coal Mines*. Journal of Sustainable Mining, Vol.12 (2013), No.2, pp. 40 – 45.

Schultz, K., Adler, L., *Environmental and Sustainability Assessment of Current and Prospective Status of Coal Mine Methane Production and Use in the European Union* (2105). Report EUR 27402 EN

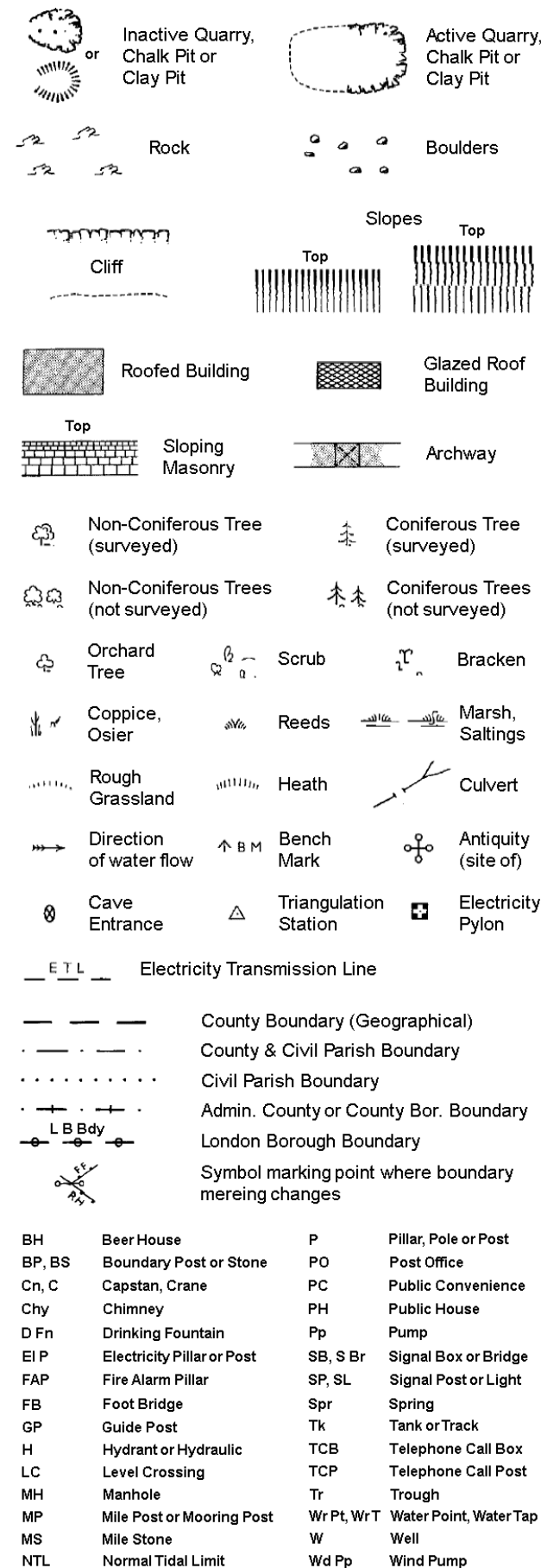
ANNEX A
Envirocheck Report

Historical Mapping Legends

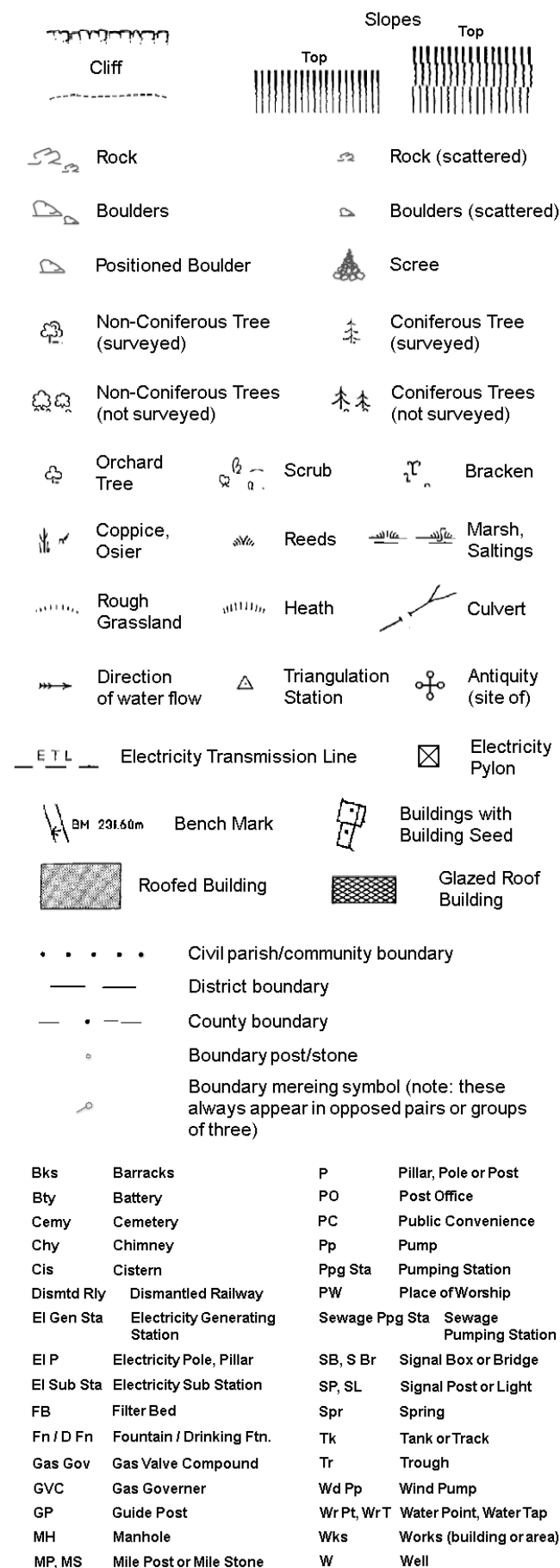
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



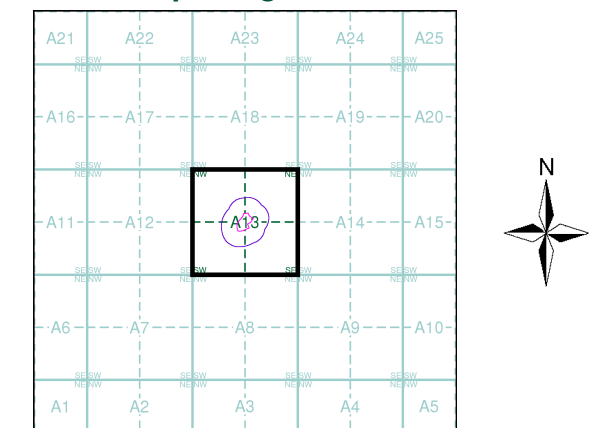
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1881 - 1882	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1918	4
Glamorganshire	1:2,500	1940 - 1941	5
Ordnance Survey Plan	1:1,250	1949 - 1951	6
Ordnance Survey Plan	1:2,500	1952 - 1971	7
Ordnance Survey Plan	1:1,250	1959 - 1967	8
Additional SIMs	1:1,250	1961 - 1989	9
Ordnance Survey Plan	1:1,250	1967	10
Ordnance Survey Plan	1:2,500	1970	11
Additional SIMs	1:1,250	1987 - 1989	12
Additional SIMs	1:1,250	1989	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1995	15
Historical Aerial Photography	1:2,500	2000	16

Historical Map - Segment A13



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details

Site at 273830, 195420



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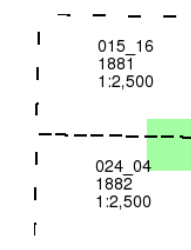
Glamorganshire

Published 1881 - 1882

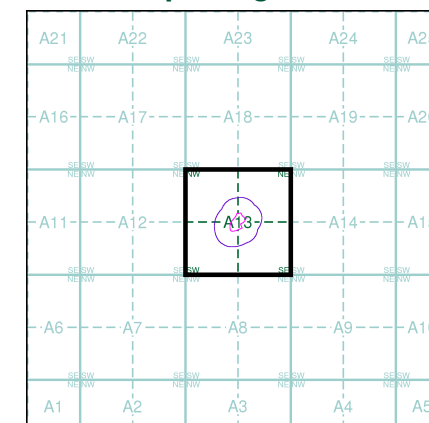
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

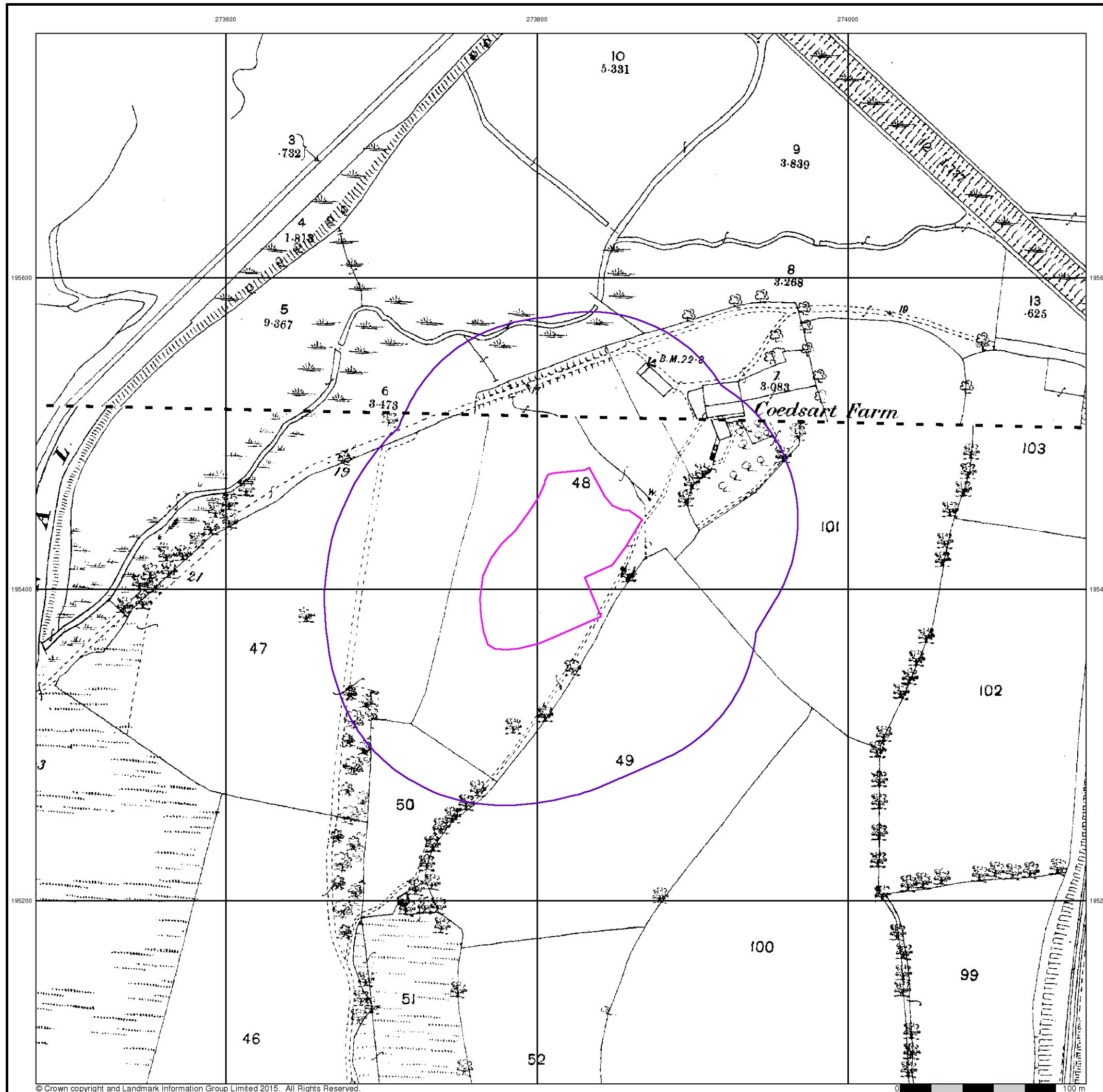
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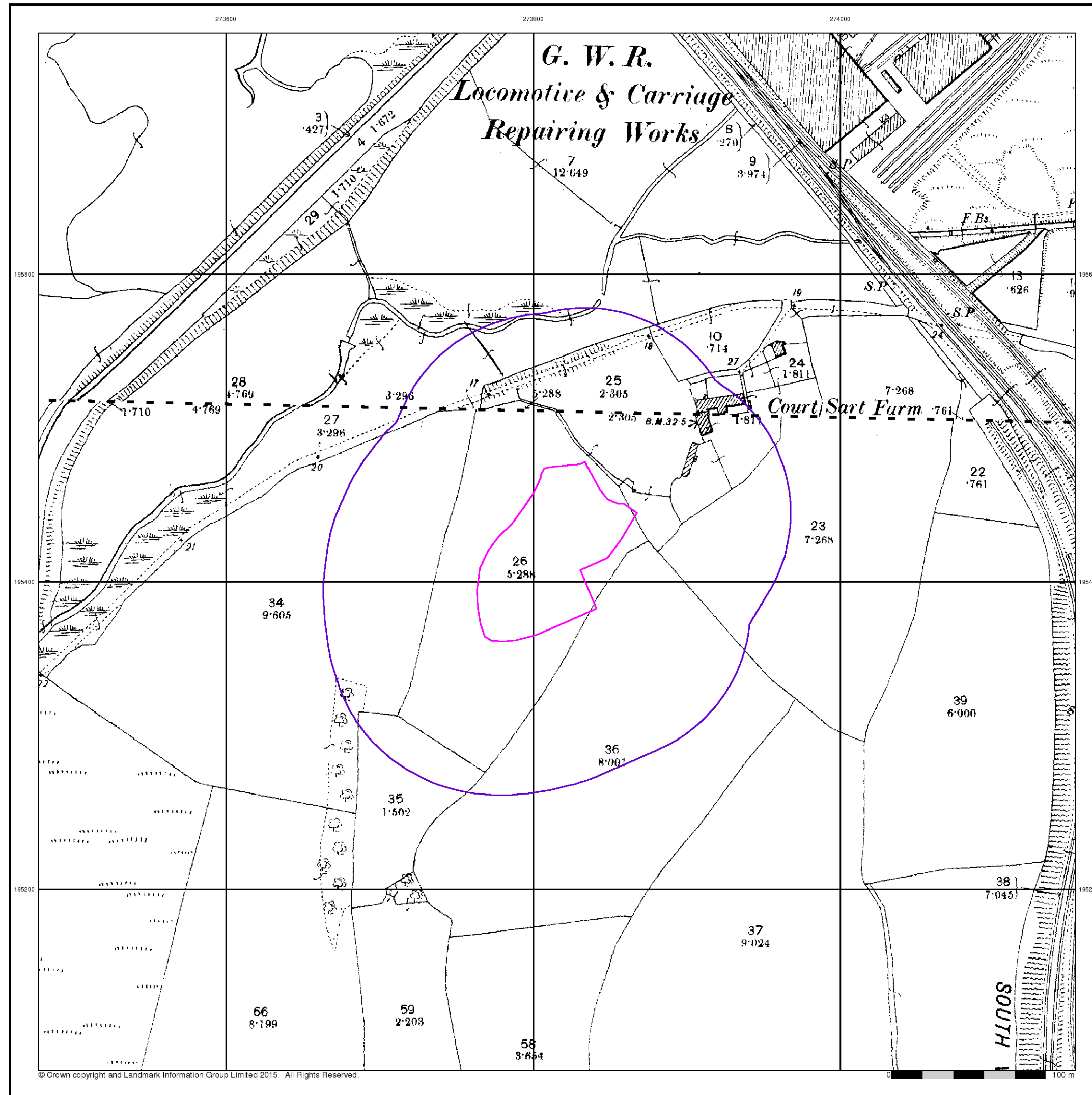
Site Details

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Glamorganshire

Published 1899

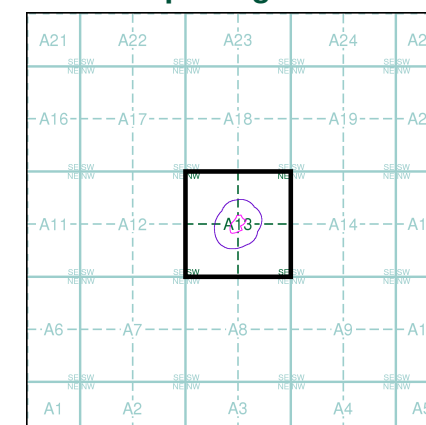
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Map Name(s) and Date(s)

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1:2,500
024_04
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1:2,500

Historical Map - Segment A13



Order Details

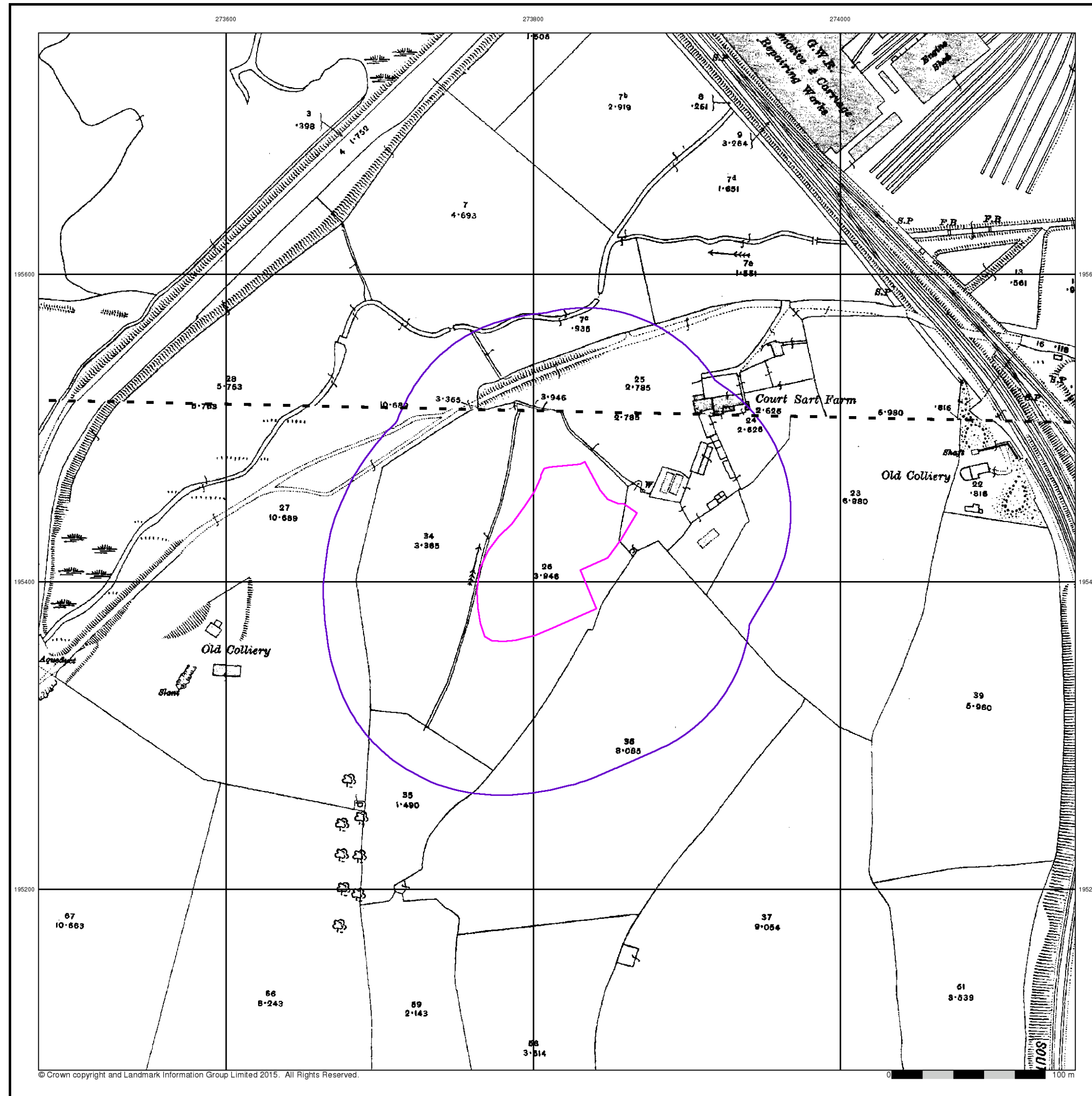
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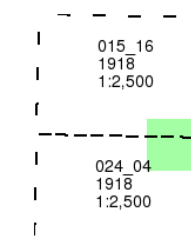
Glamorganshire

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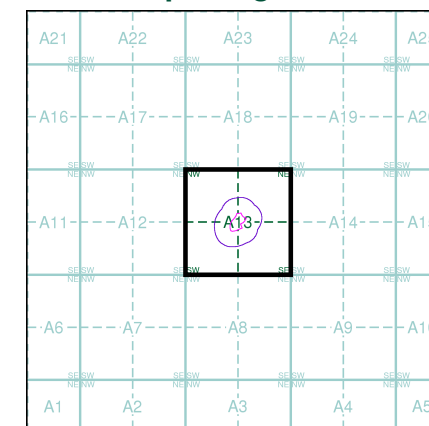
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

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Glamorganshire

Published 1940 - 1941

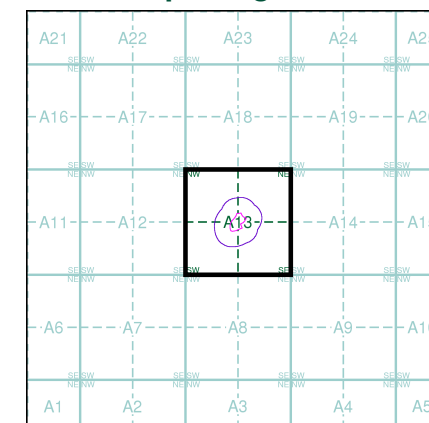
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024_04
1941
1:2,500

Historical Map - Segment A13



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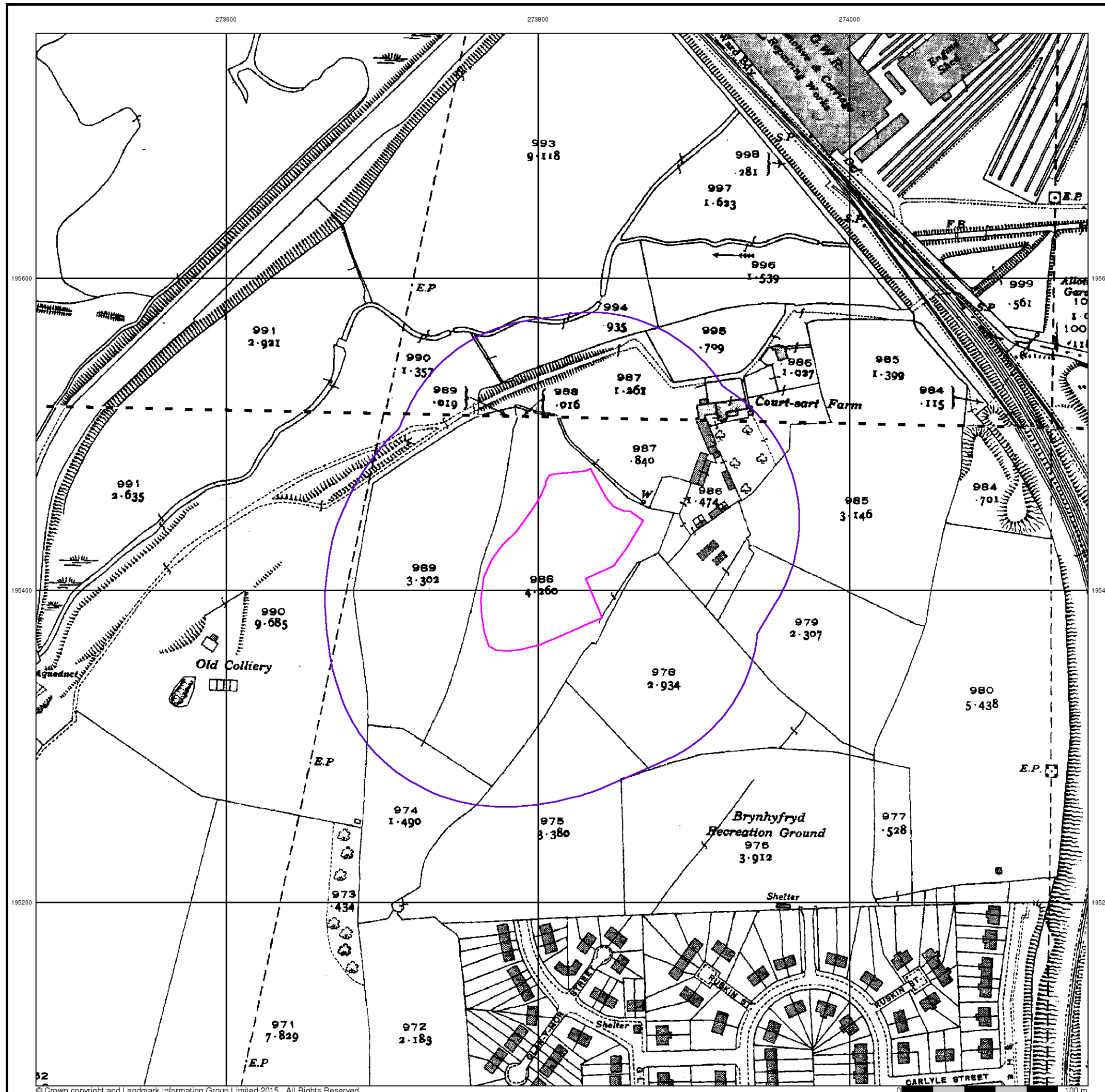
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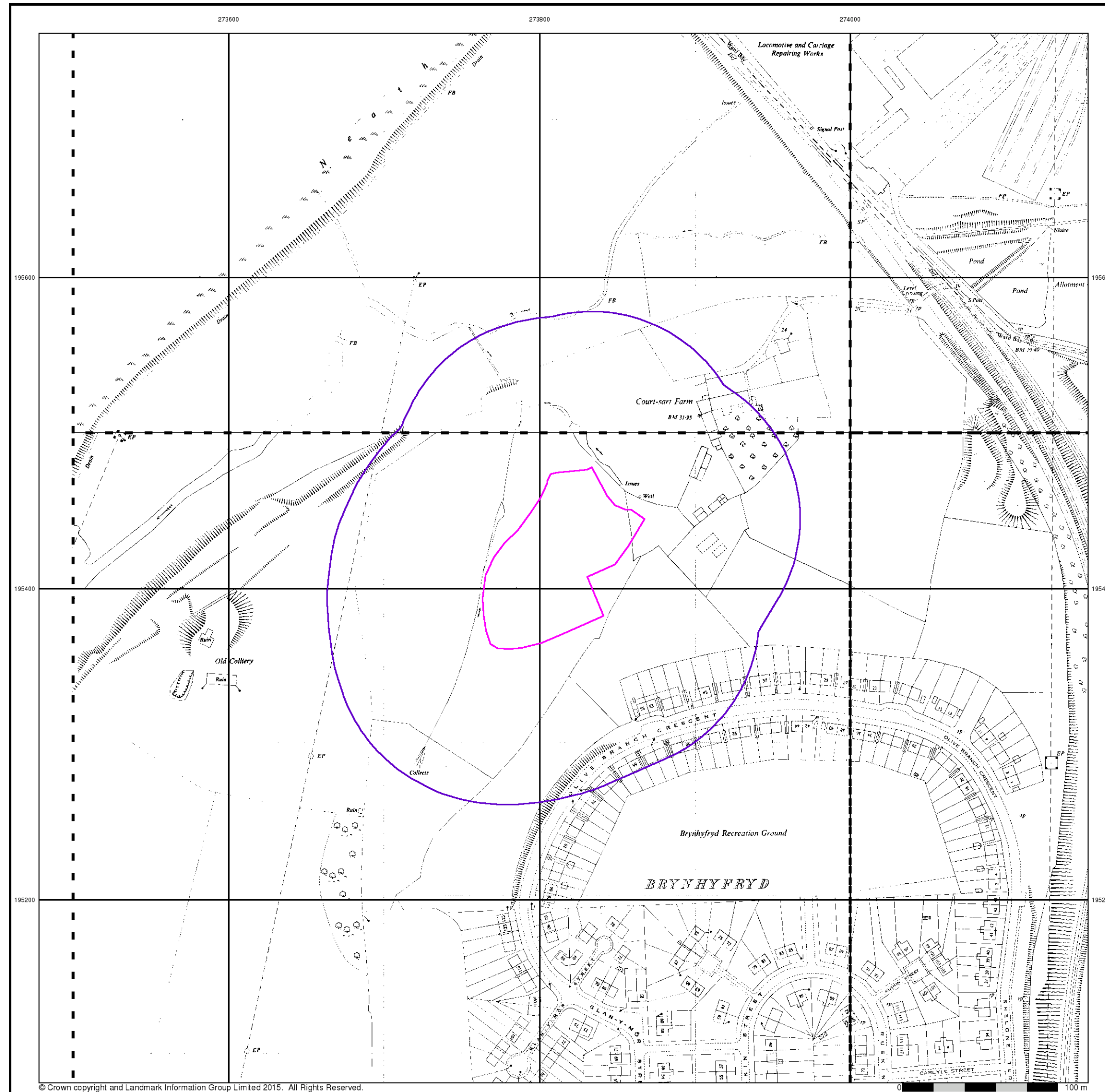
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Ordnance Survey Plan

Published 1949 - 1951

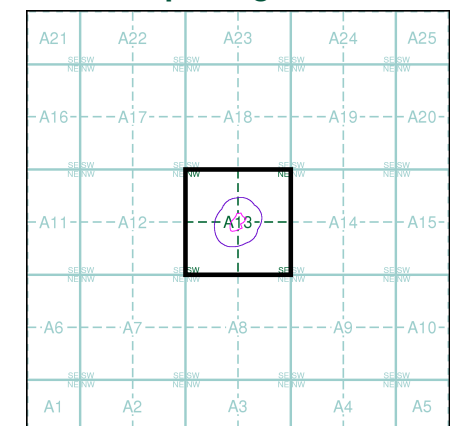
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Map Name(s) and Date(s)

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1:1,250	1:1,250

Historical Map - Segment A13



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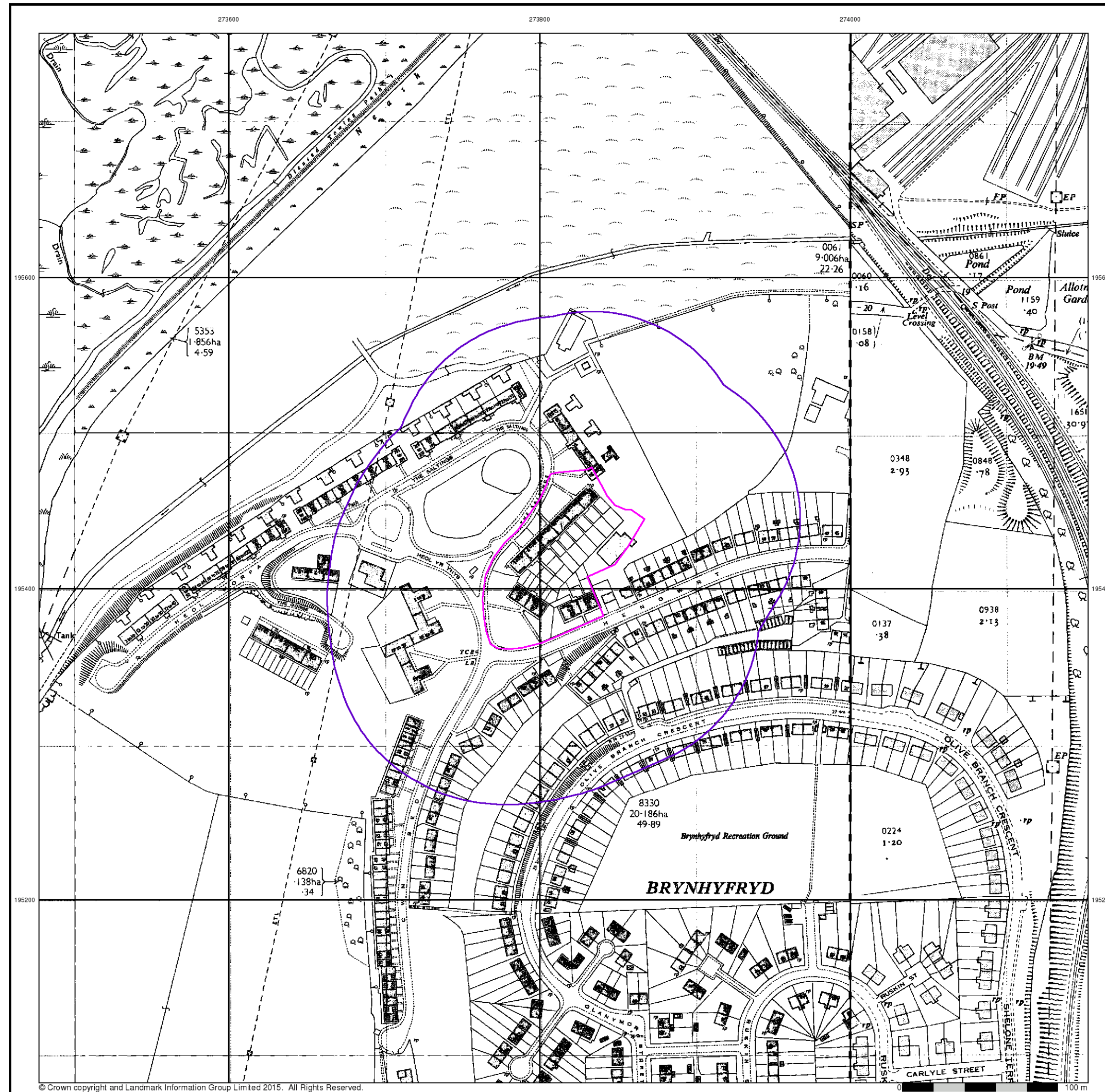
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Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details

Site at 273830, 195420



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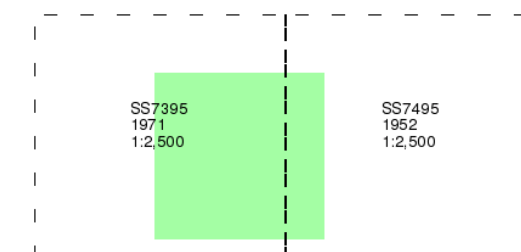
Ordnance Survey Plan

Published 1952 - 1971

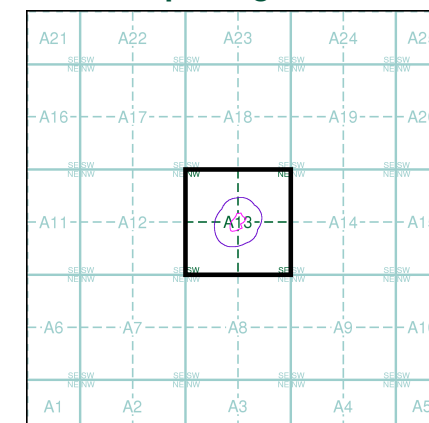
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Map Name(s) and Date(s)



Historical Map - Segment A13



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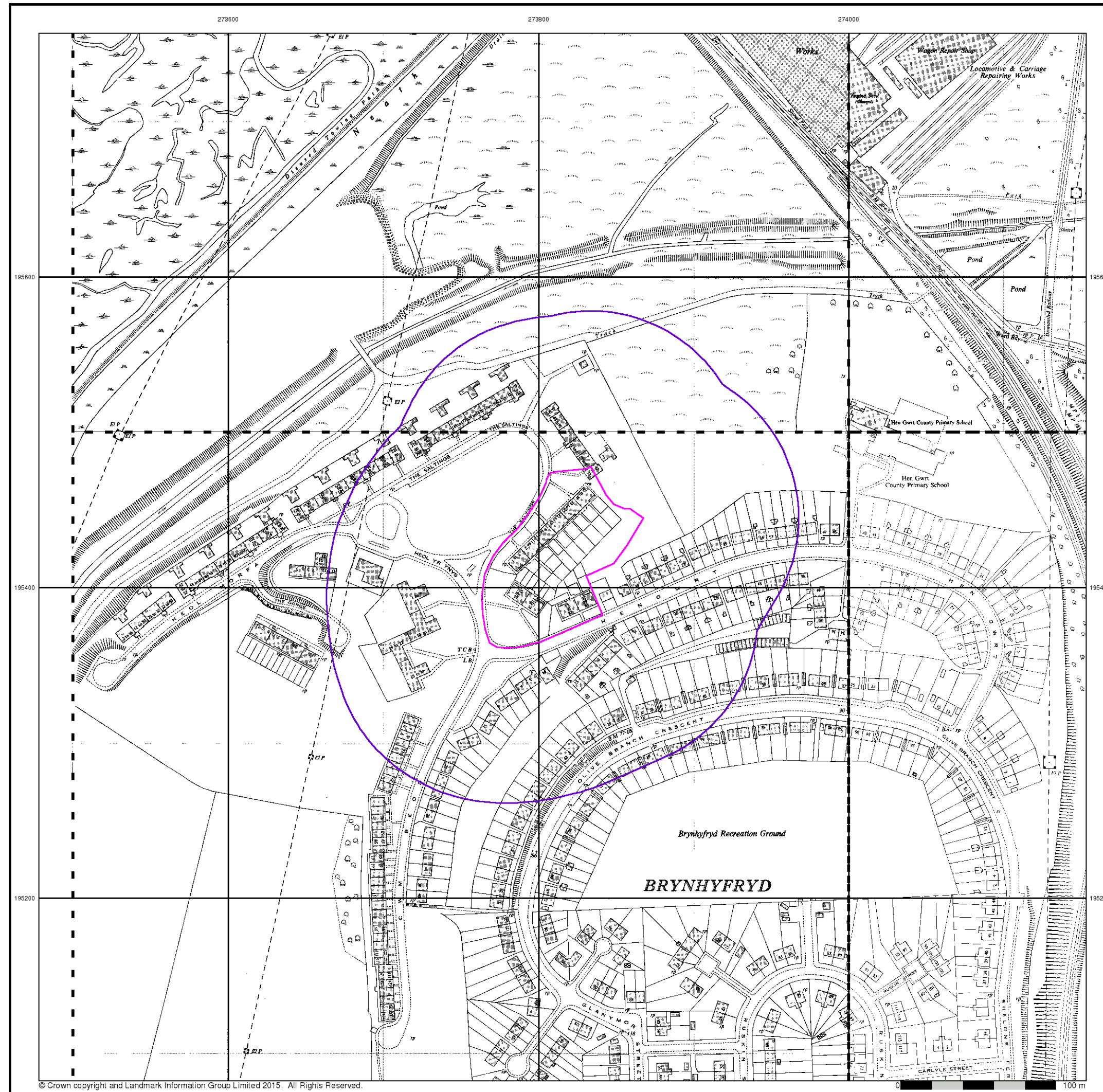
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Slice: A
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Search Buffer (m): 100

Site Details

Site at 273830, 195420



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Ordnance Survey Plan

Published 1959 - 1967

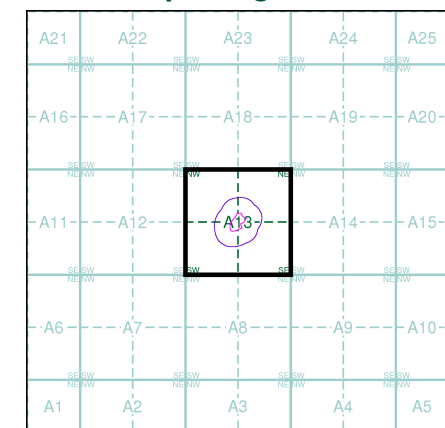
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Map Name(s) and Date(s)

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Historical Map - Segment A13



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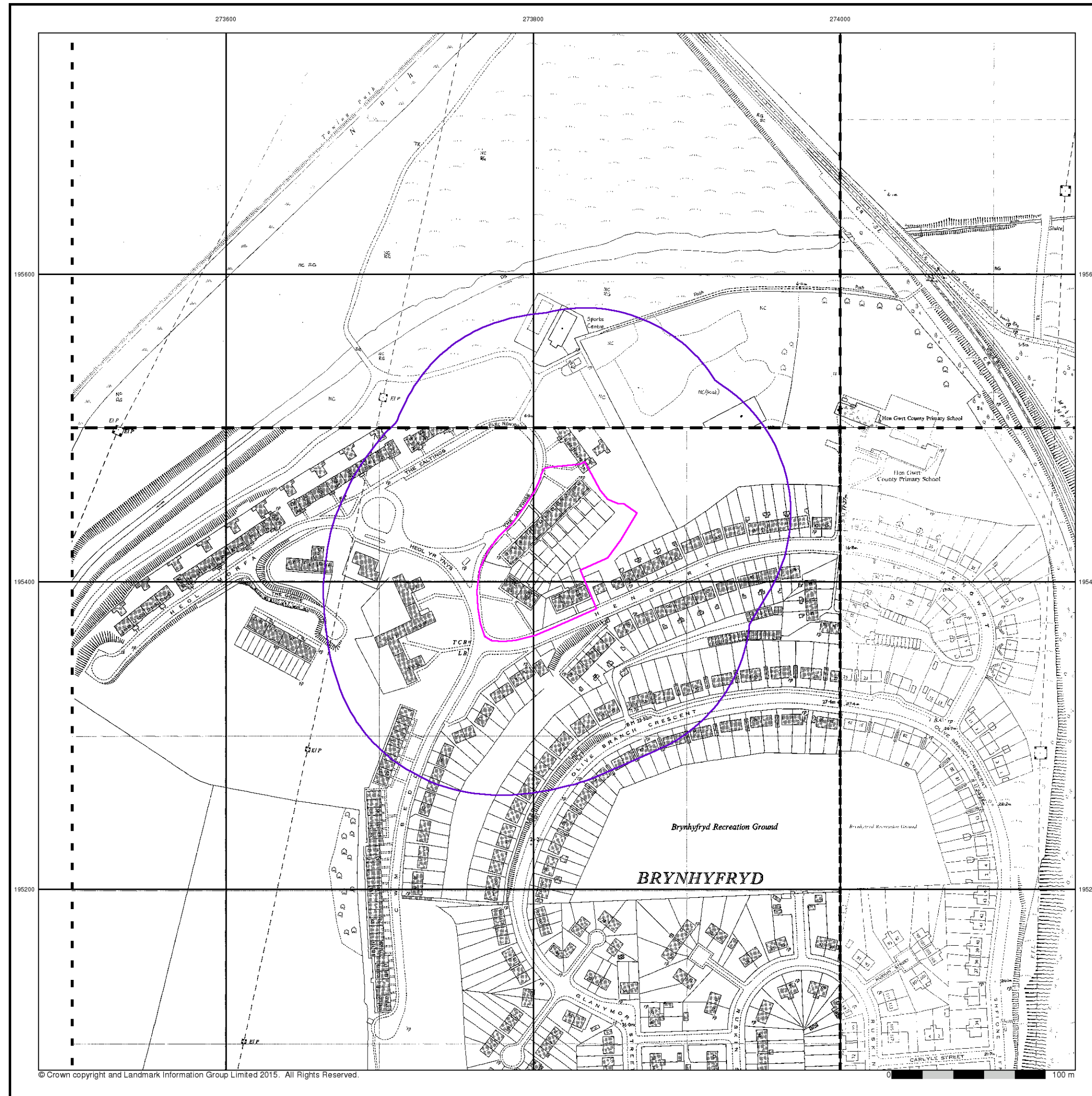
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Site Details

Site at 273830, 195420



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Additional SIMs

Published 1961 - 1989

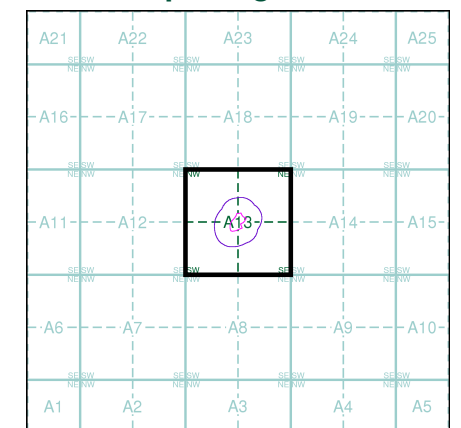
Source map scale - 1:1,250

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)

SS7395NE	SS7495NW
1989	1985
1:1,250	1:1,250
SS7395SE	SS7495SW
1961	1979
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

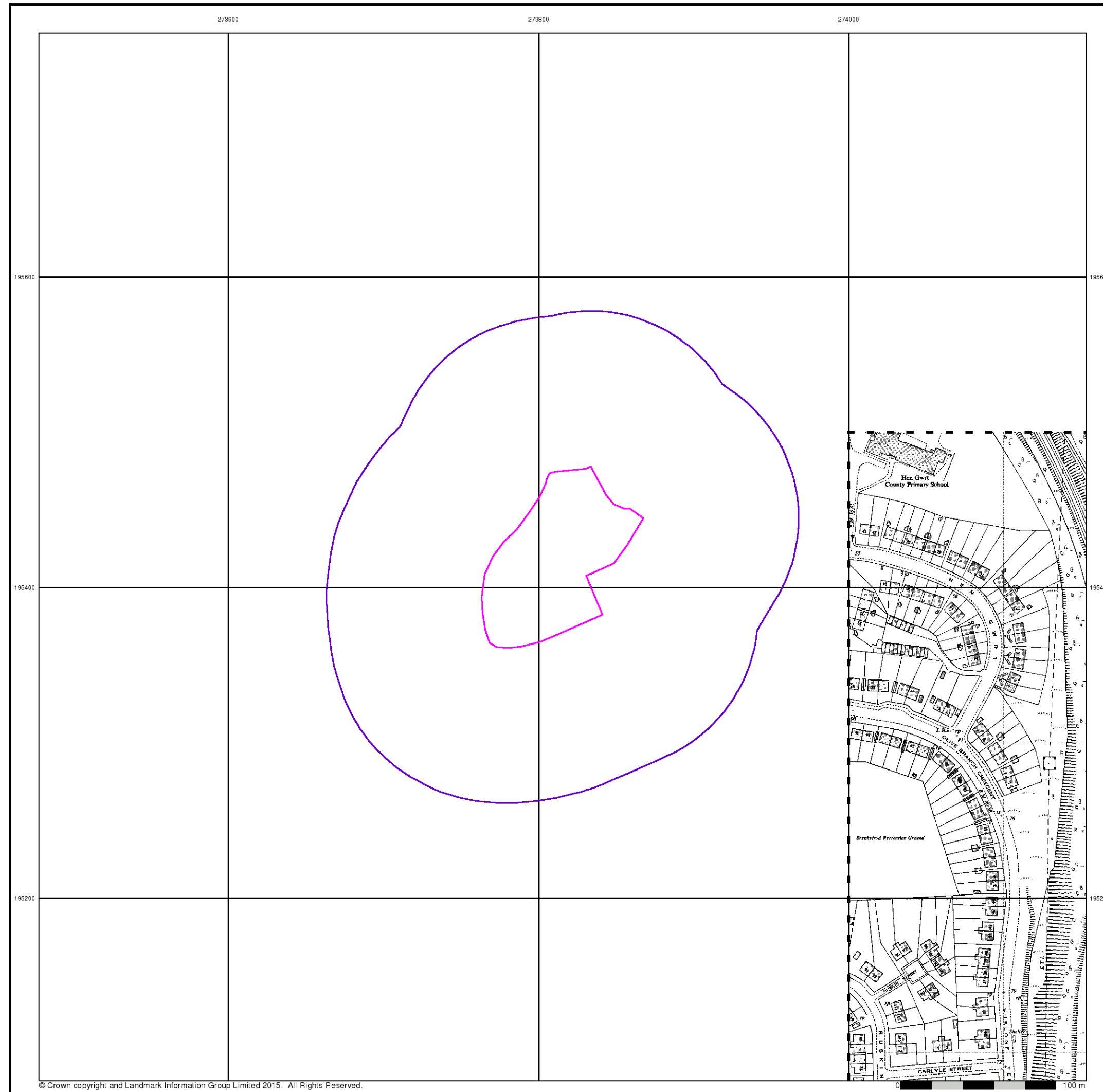
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details

Site at 273830, 195420



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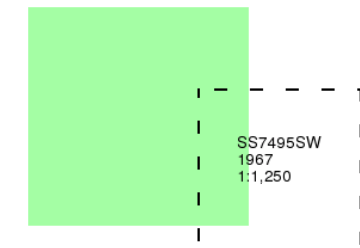
Ordnance Survey Plan

Published 1967

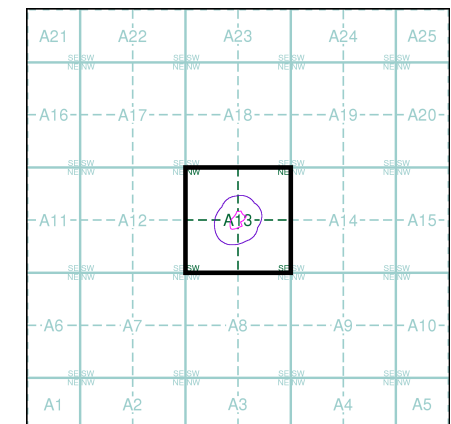
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
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Site Details

Site at 273830, 195420



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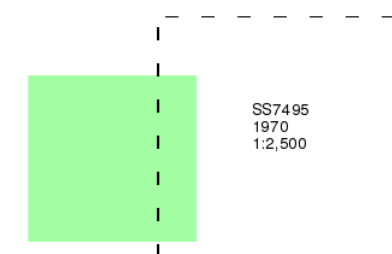
Ordnance Survey Plan

Published 1970

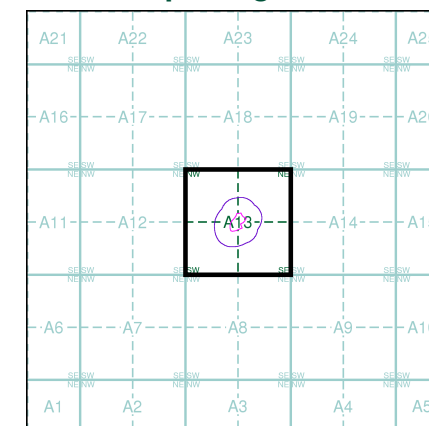
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

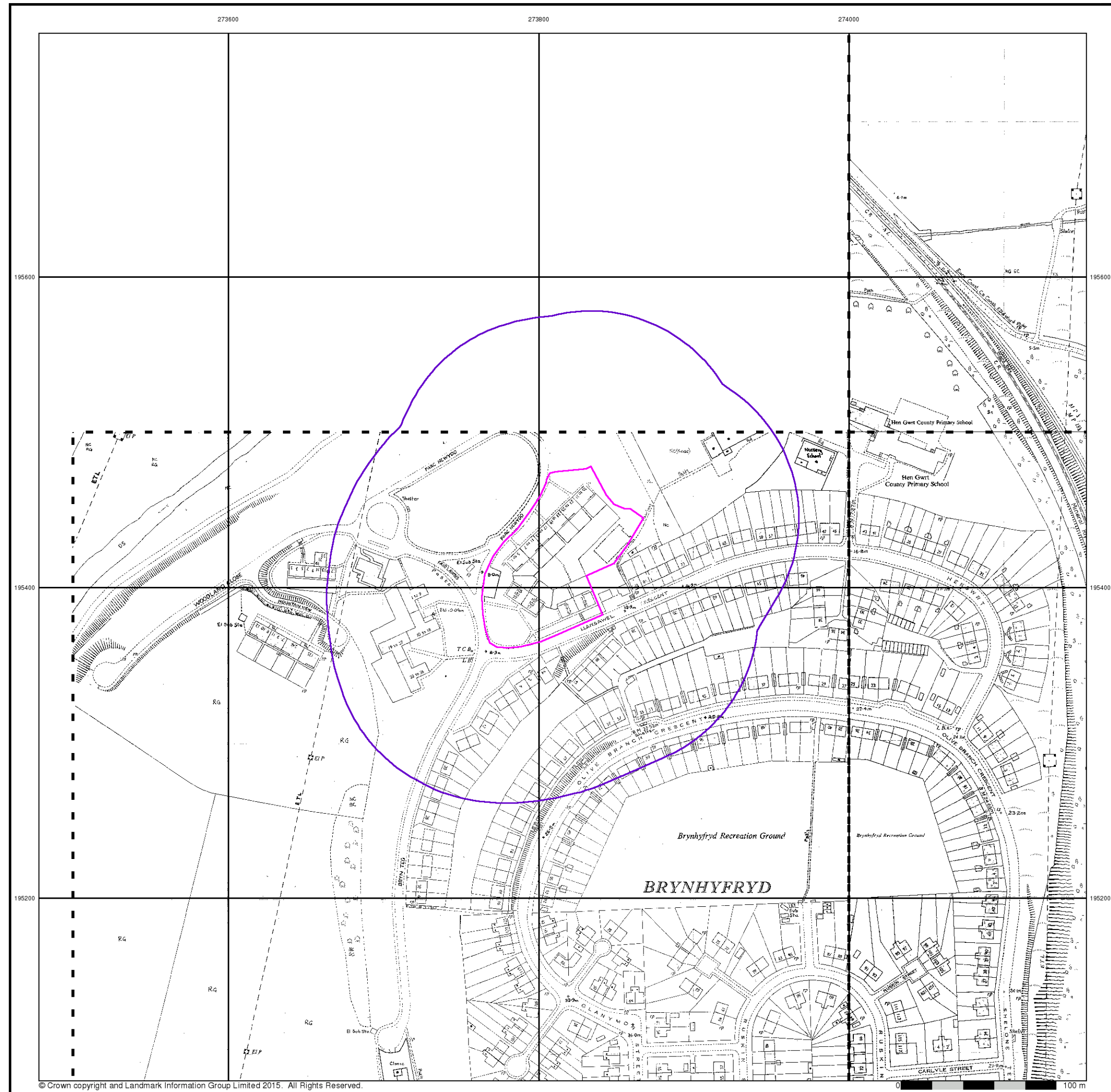
Site Details

Site at 273830, 195420



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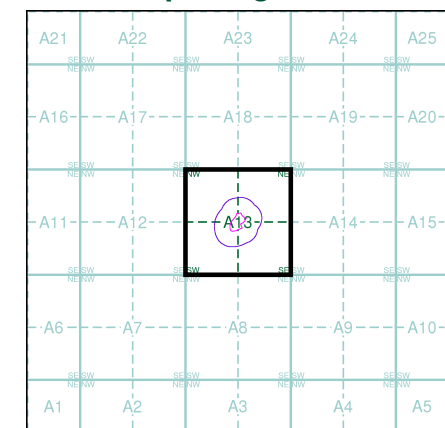
Additional SIMs
Published 1987 - 1989
Source map scale - 1:1,250

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)

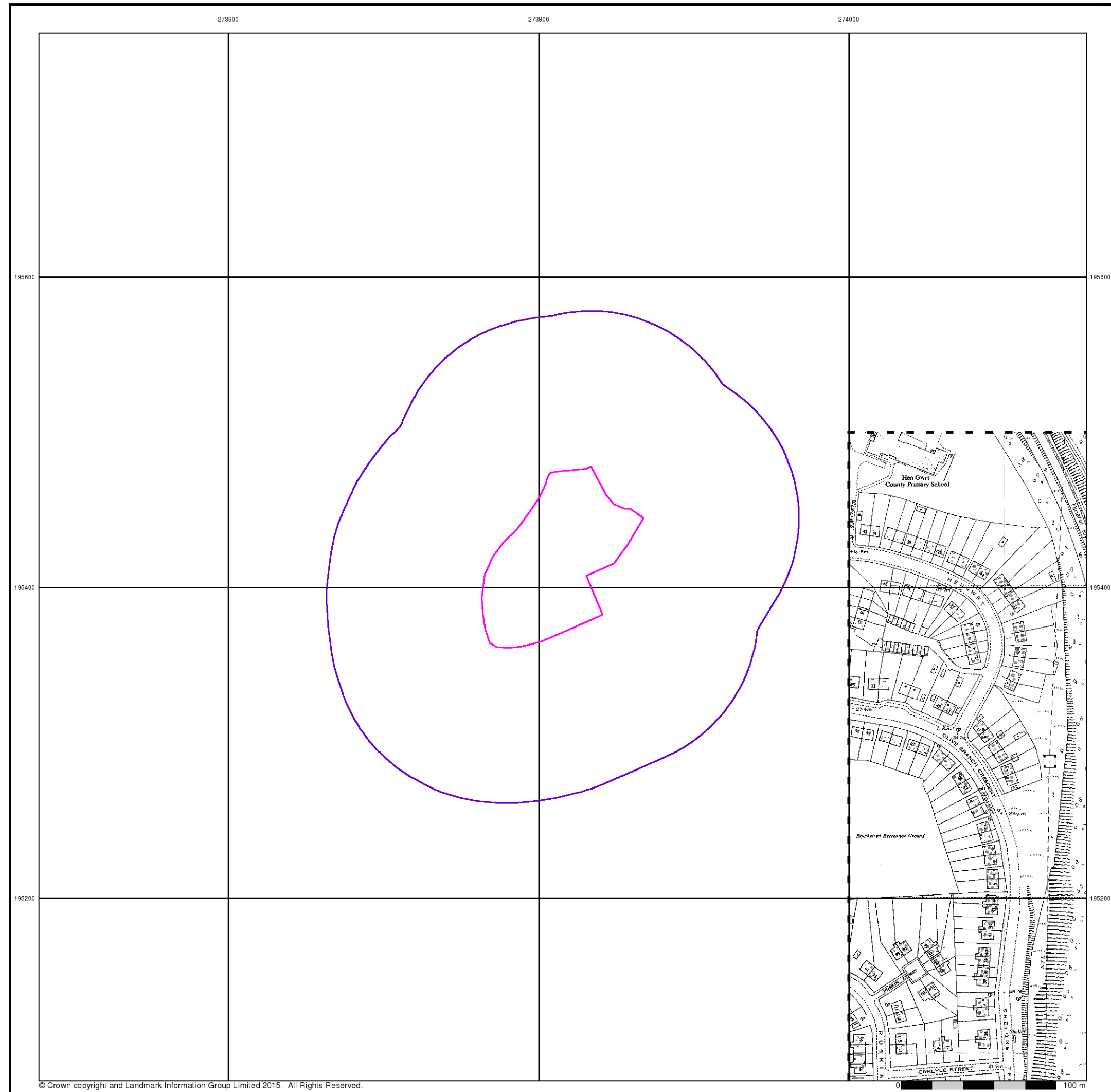
SS7495NW	1989	1:1,250
SS7395SE	1989	1:1,250
SS7495SW	1987	1:1,250

Historical Map - Segment A13



Order Details
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details
Site at 273830, 195420



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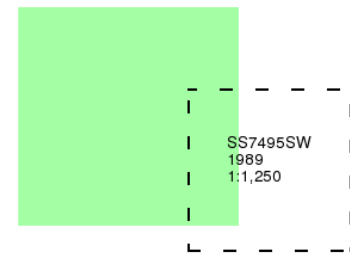
Additional SIMs

Published 1989

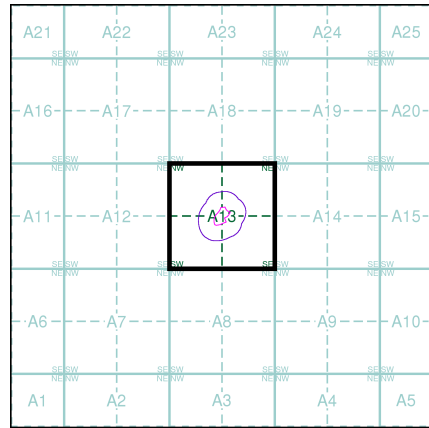
Source map scale - 1:1,250

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

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Slice: A
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Site Details

Site at 273830, 195420



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Large-Scale National Grid Data

Published 1993

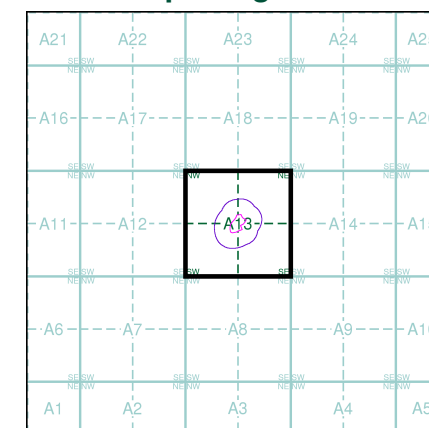
Source map scale - 1:1,250

'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)

SS7395NW 1993 1:1,250	SS7395NE 1993 1:1,250	SS7495NW 1993 1:1,250
SS7395SW 1993 1:1,250	SS7395SE 1993 1:1,250	SS7495SW 1993 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details

Site at 273830, 195420

Landmark
INFORMATION GROUP

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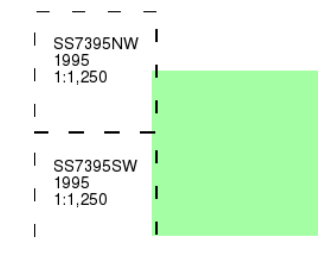
Large-Scale National Grid Data

Published 1995

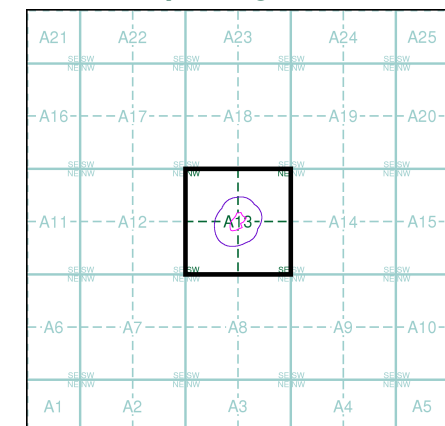
Source map scale - 1:1,250

'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: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
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Site Details

Site at 273830, 195420



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273600

273800

274000

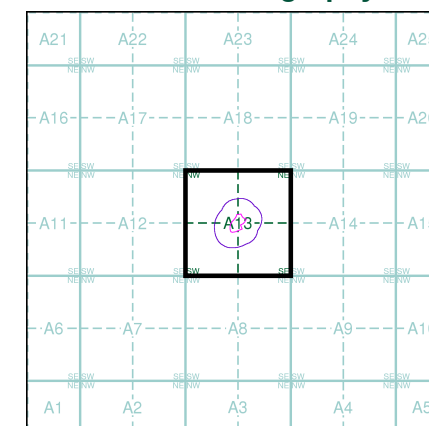


Historical Aerial Photography

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: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 100

Site Details

Site at 273830, 195420

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

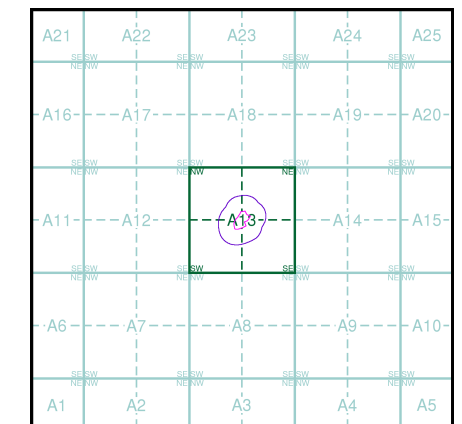
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	3
Glamorganshire	1:10,560	1900	4
Glamorganshire	1:10,560	1921	5
Glamorganshire	1:10,560	1921	6
Glamorganshire	1:10,560	1936	7
Glamorganshire	1:10,560	1938 - 1951	8
Historical Aerial Photography	1:10,560	1945 - 1949	9
Glamorganshire	1:10,560	1951 - 1952	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1970 - 1974	12
Swansea	1:10,000	1976	13
Ordnance Survey Plan	1:10,000	1980 - 1983	14
Ordnance Survey Plan	1:10,000	1992 - 1996	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2017	18

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

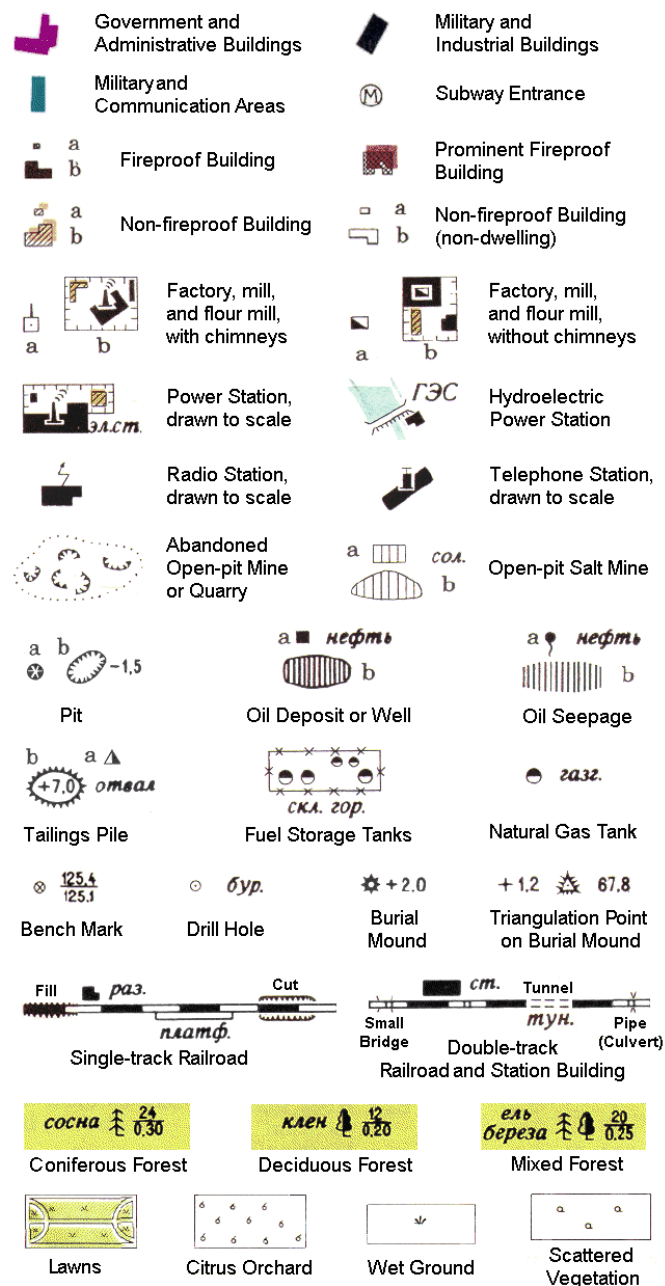


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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale



243.8 Values for prominent elevations

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

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

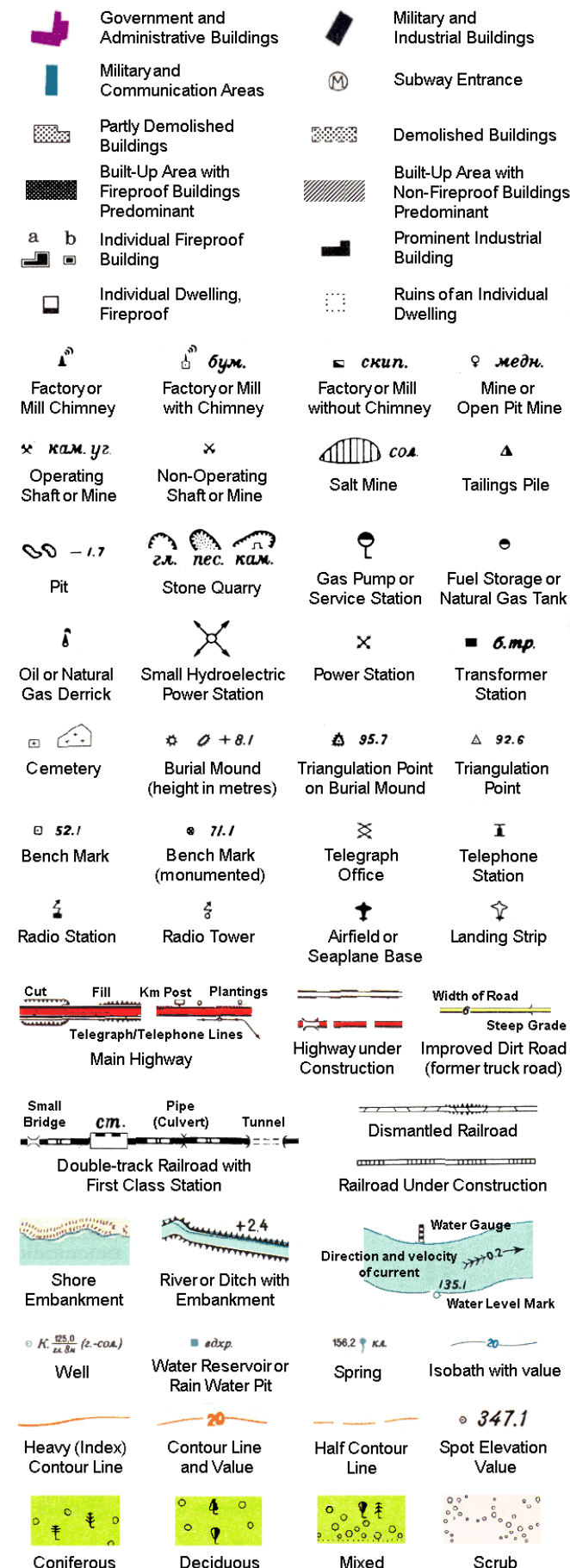
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



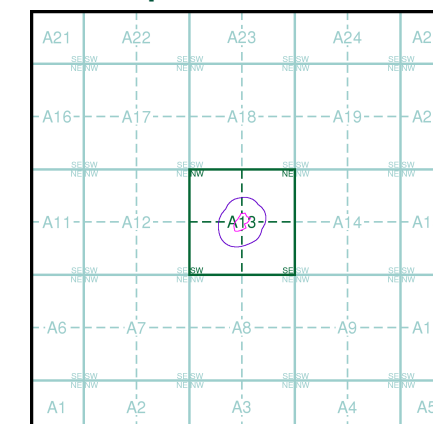
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884	3
Glamorganshire	1:10,560	1900	4
Glamorganshire	1:10,560	1921	5
Glamorganshire	1:10,560	1921	6
Glamorganshire	1:10,560	1936	7
Glamorganshire	1:10,560	1938 - 1951	8
Historical Aerial Photography	1:10,560	1945 - 1949	9
Glamorganshire	1:10,560	1951 - 1952	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1970 - 1974	12
Swansea	1:10,000	1976	13
Ordnance Survey Plan	1:10,000	1980 - 1983	14
Ordnance Survey Plan	1:10,000	1992 - 1996	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2017	18

Russian Map - Slice A



Order Details

Order Number: 152214525_1_1
 Customer Ref: 14396-45
 National Grid Reference: 273810, 195420
 Slice: A
 Site Area (Ha): 0.72
 Search Buffer (m): 1000

Site Details

Site at 273830, 195420

Landmark
 INFORMATION GROUP

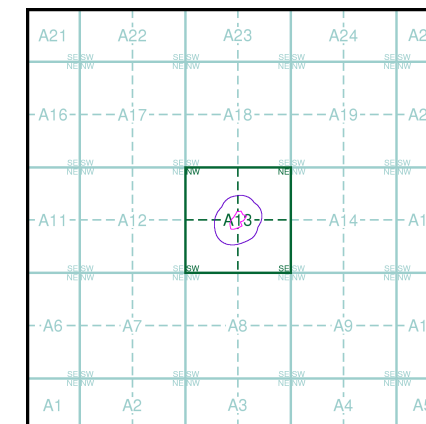
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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)

015SE 1900 1:10,560	016SW 1900 1:10,560
024NE 1900 1:10,560	025NW 1900 1:10,560

Historical Map - Slice A



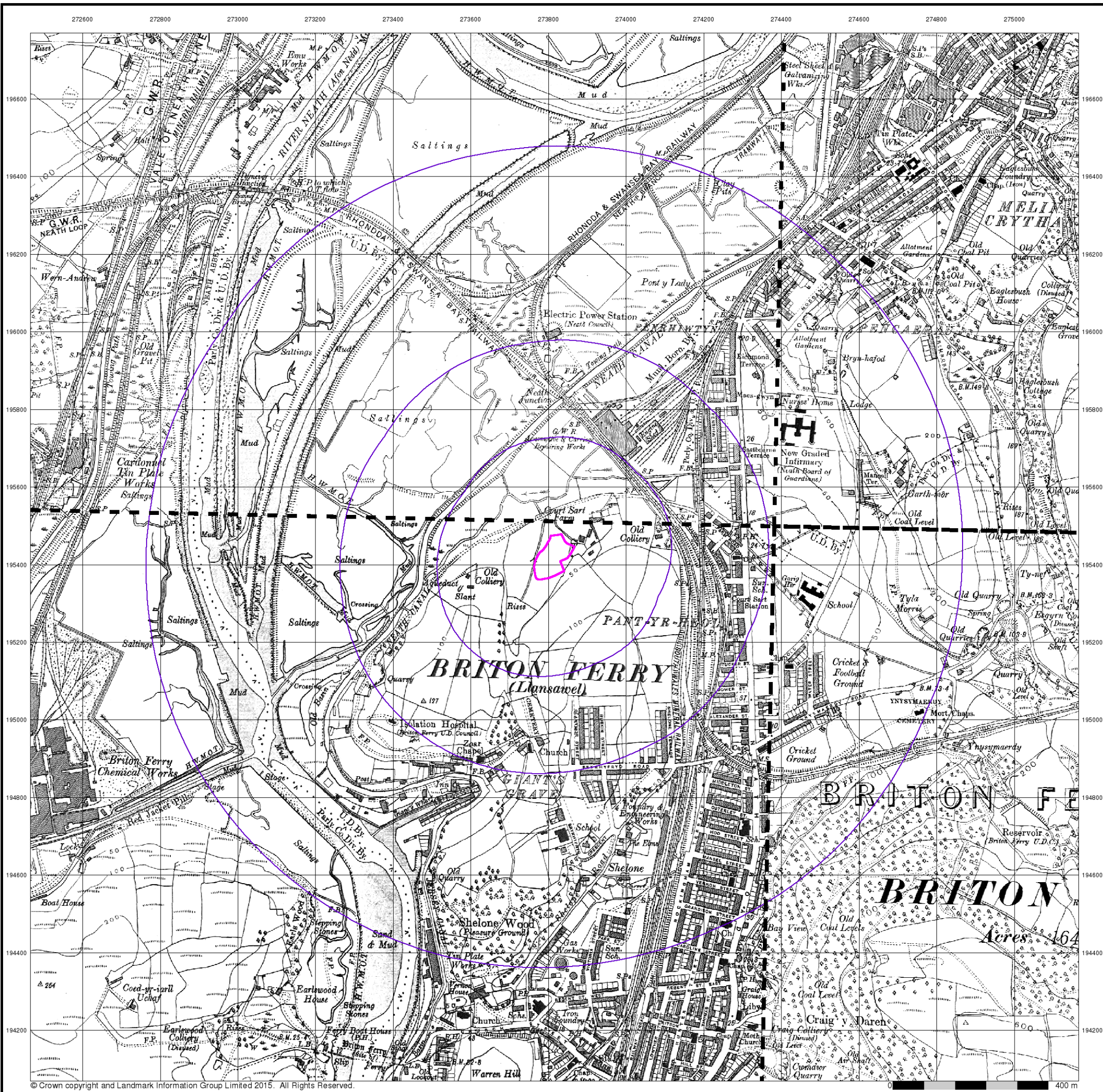
Order Details

Order Number: 152214525_1_1
 Customer Ref: 14396-45
 National Grid Reference: 273810, 195420
 Slice: A
 Site Area (Ha): 0.72
 Search Buffer (m): 1000

Site Details

Site at 273830, 195420





Glamorganshire

Published 1921

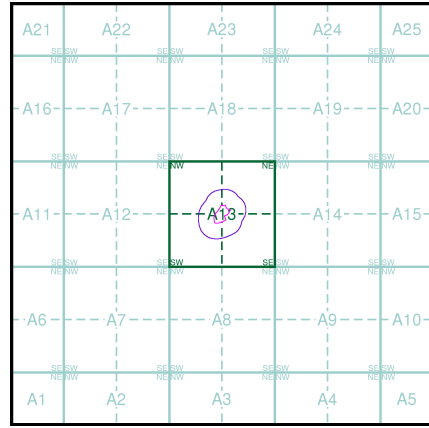
Source map scale - 1:10,560

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

015SE 1921 1:10,560	016SW 1921 1:10,560
024NE 1921 1:10,560	025NW 1921 1:10,560

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
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Site Details

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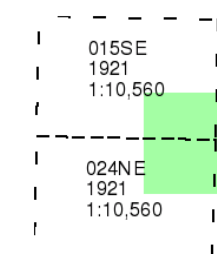
Glamorganshire

Published 1921

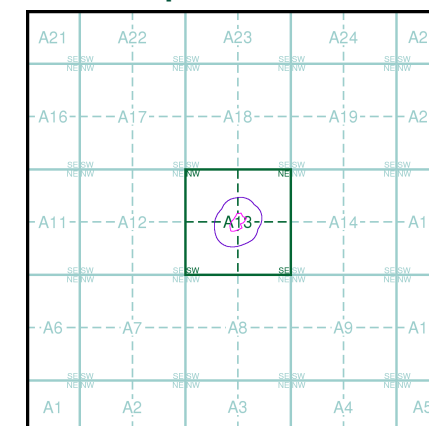
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 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: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
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Search Buffer (m): 1000

Site Details

Site at 273830, 195420

Landmark
INFORMATION GROUP

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Glamorganshire

Published 1936

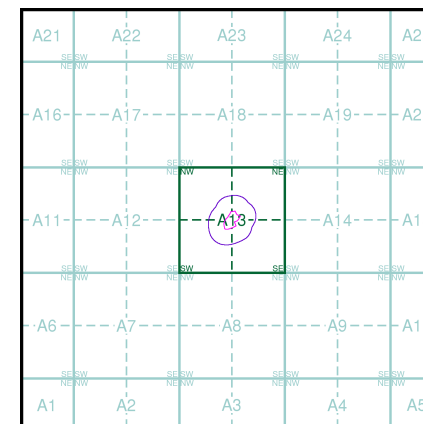
Source map scale - 1:10,560

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)

016SW
1936
1:10,560
025NW
1936
1:10,560

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
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Site Details

Site at 273830, 195420



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Web: www.envirocheck.co.uk

Glamorganshire

Published 1938 - 1951

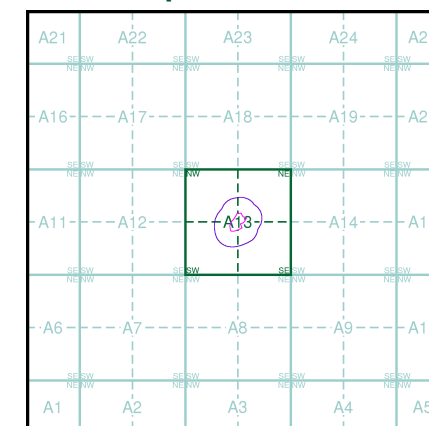
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

015SE 1940 1:10,560	016SW 1938 1:10,560
024NE 1938 1:10,560	025NW 1951 1:10,560

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
 Customer Ref: 14396-45
 National Grid Reference: 273810, 195420
 Slice: A
 Site Area (Ha): 0.72
 Search Buffer (m): 1000

Site Details

Site at 273830, 195420





Historical Aerial Photography

Published 1945 - 1949

Source map scale - 1:10,560

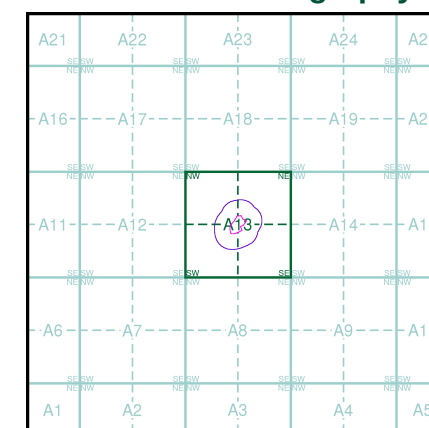
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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Map Name(s) and Date(s)

SS79NW 1945 1:10,560	SS79NE 1949 1:10,560
SS79SW 1949 1:10,560	SS79SE 1949 1:10,560

Historical Aerial Photography - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Glamorganshire

Published 1951 - 1952

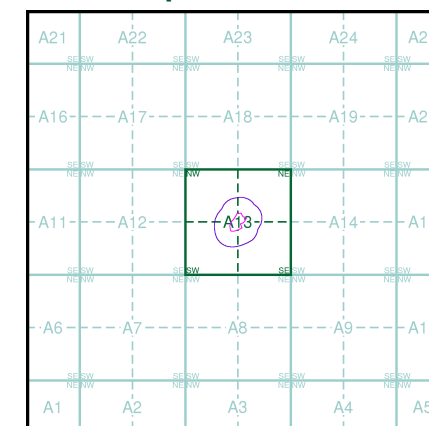
Source map scale - 1:10,560

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)

015SE 1952 1:10,560	016SW 1951 1:10,560
024NE 1951 1:10,560	

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Ordnance Survey Plan

Published 1964 - 1965

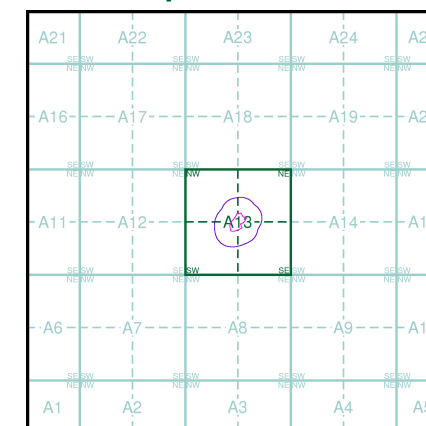
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS79NW	SS79NE
1965	1964
1:10,560	1:10,560
SS79SW	SS79SE
1964	1964
1:10,560	1:10,560

Historical Map - Slice A



Order Details

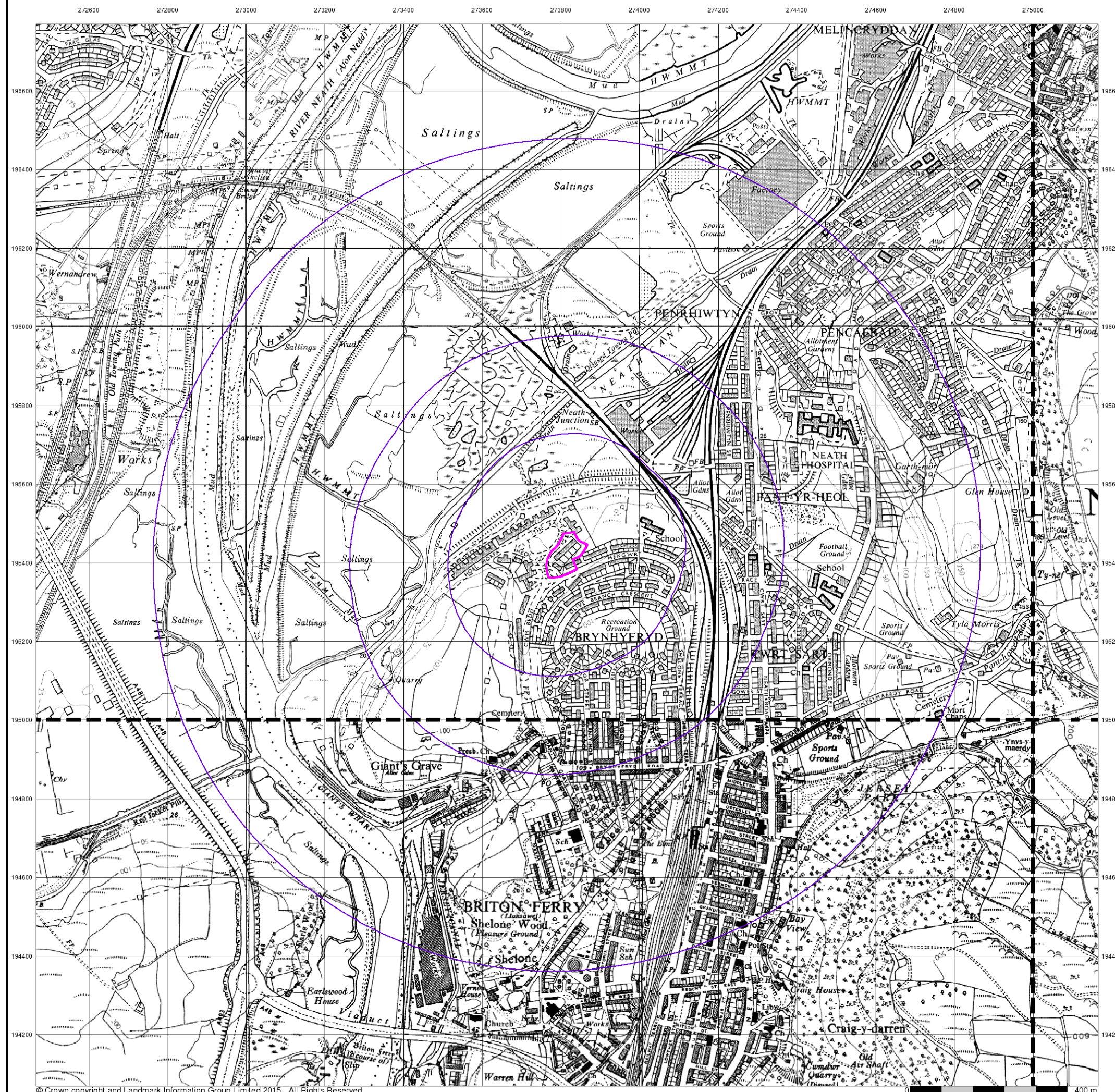
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Ordnance Survey Plan

Published 1970 - 1974

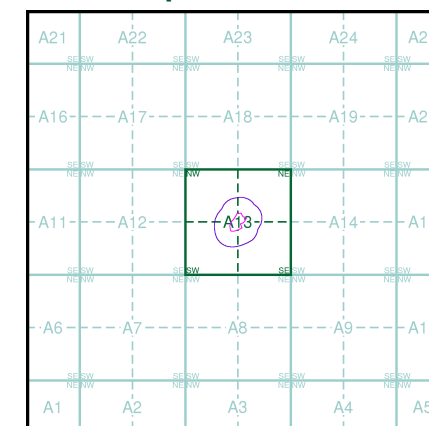
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1970	1973
1:10,560	1:10,000
	SS79SE
	1974
	1:10,560

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Swansea

Published 1976

Source map scale - 1:10,000

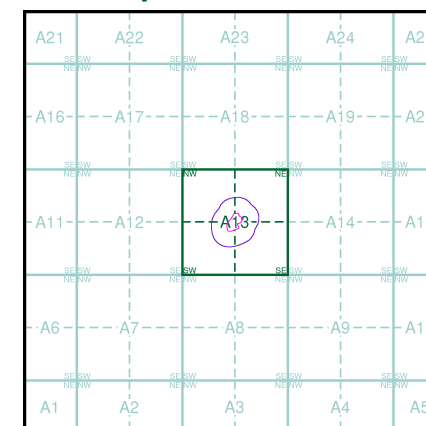
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed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

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

Map Name(s) and Date(s)

SS79NW
1976
1:10,000
SS79SW
1976
1:10,000

Russian Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Ordnance Survey Plan

Published 1980 - 1983

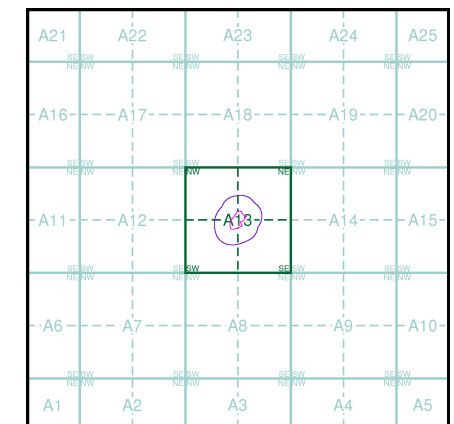
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1980	1983
1:10,000	1:10,000
SS79SW	SS79SE
1980	1980
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Ordnance Survey Plan

Published 1992 - 1996

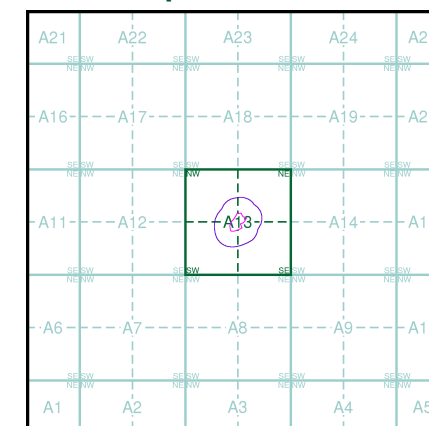
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1992	1992
1:10,000	1:10,000
	SS79SE
	1996
	1:10,000

Historical Map - Slice A



Order Details

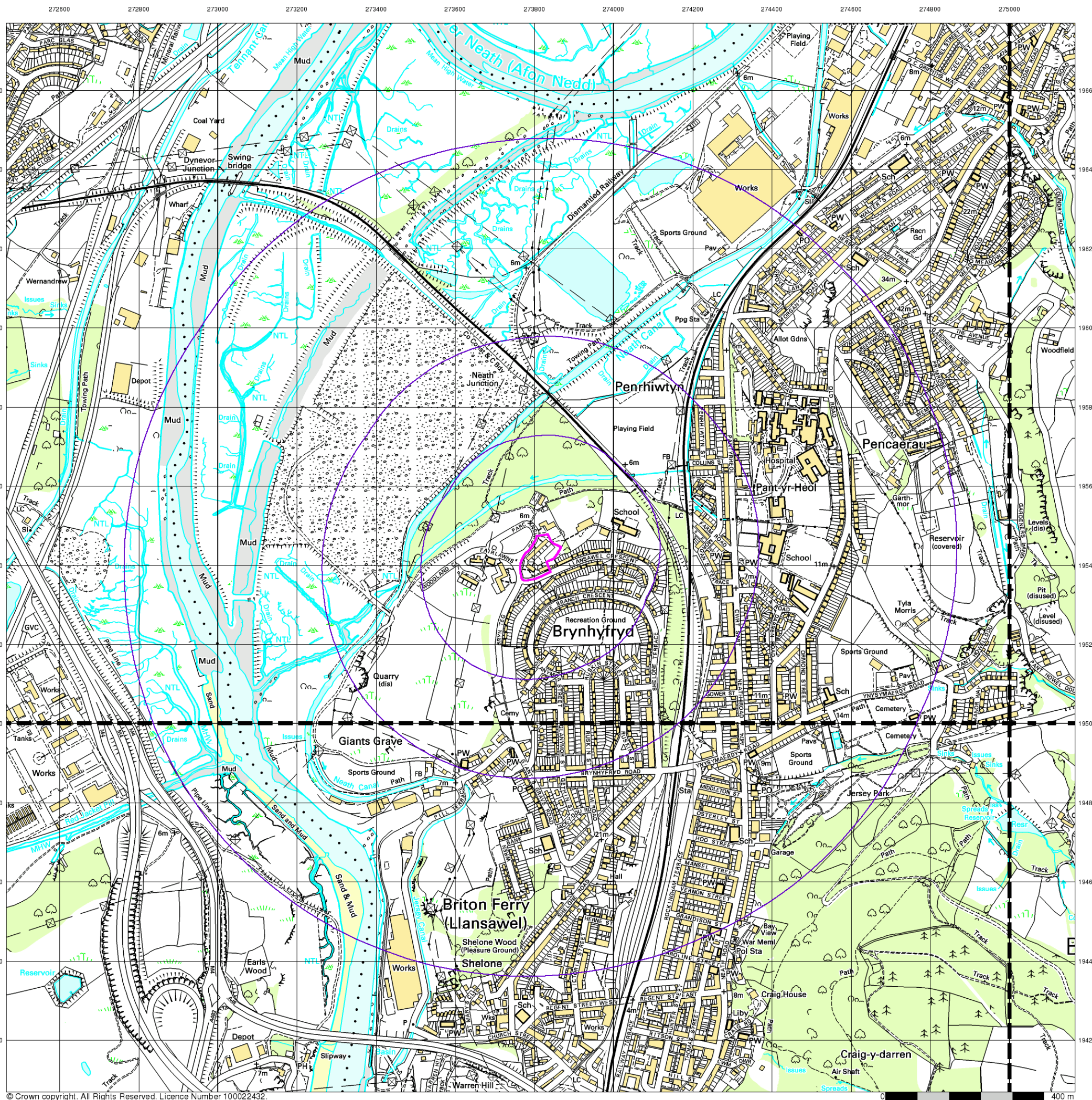
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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10k Raster Mapping

Published 1999

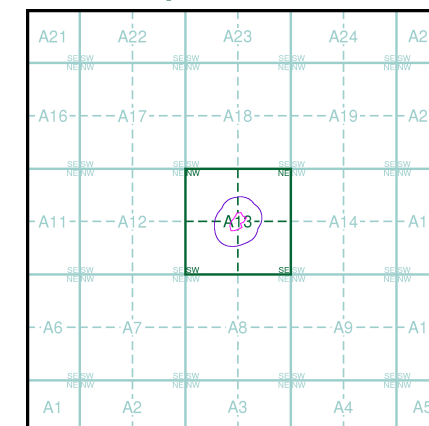
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS79NW	SS79NE
1999	1999
1:10,000	1:10,000
SS79SW	SS79SE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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VectorMap Local

Published 2017

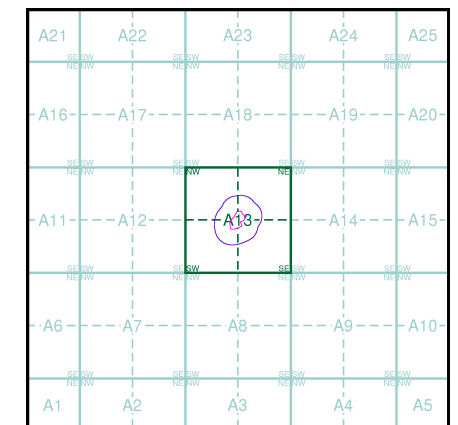
Source map scale - 1:10,000

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)

SS79NW 2017 Variable	SS79NE 2017 Variable
SS79SW 2017 Variable	SS79SE 2017 Variable

Historical Map - Slice A



Order Details

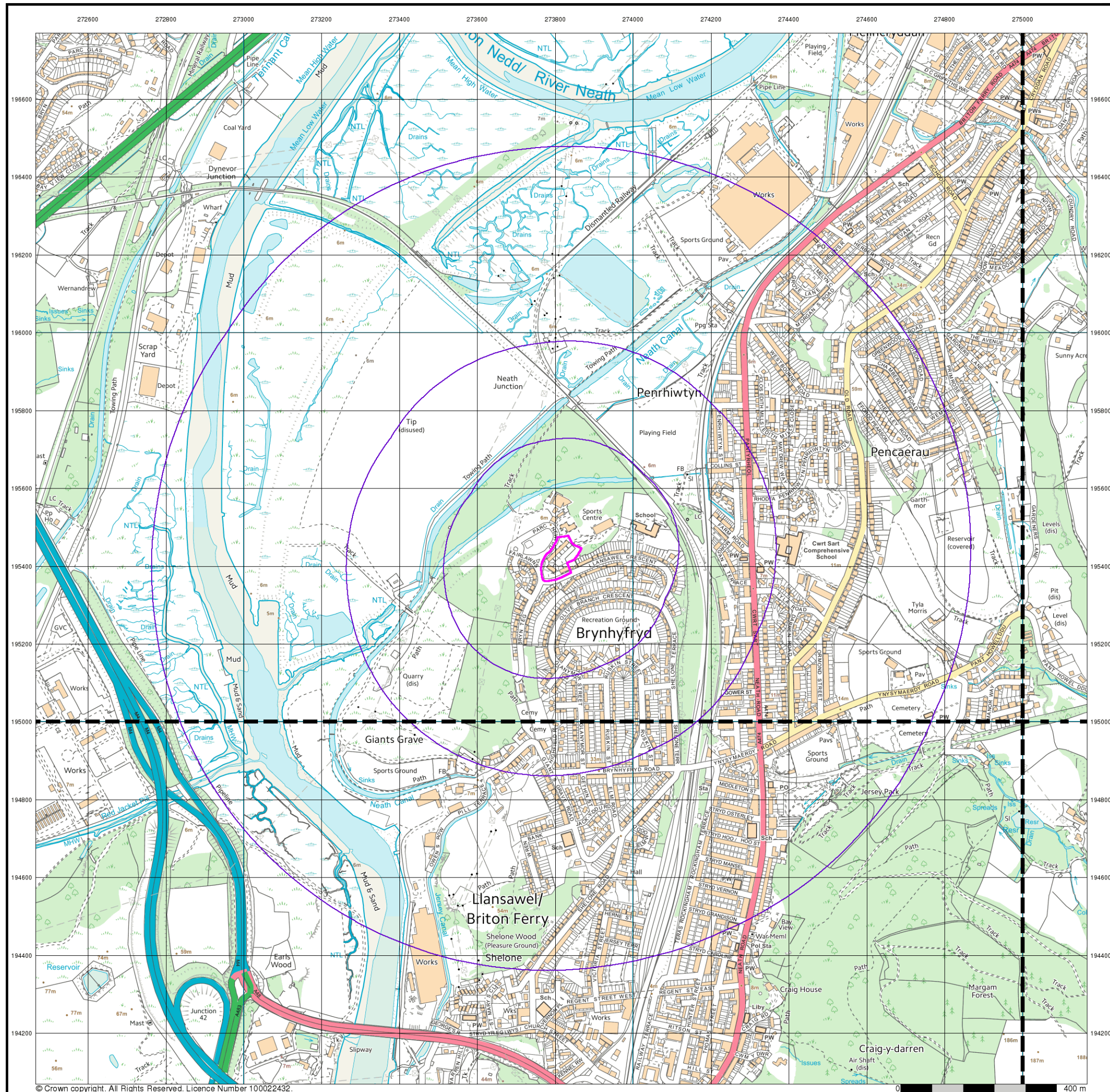
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

152214525_1_1

Customer Reference:

14396-45

National Grid Reference:

273810, 195420

Slice:

A

Site Area (Ha):

0.72

Search Buffer (m):

1000

Site Details:

Site at 273830, 195420

Client Details:

Mr D Emanuel
Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	48
Hazardous Substances	-
Geological	57
Industrial Land Use	67
Sensitive Land Use	74
Data Currency	75
Data Suppliers	80
Useful Contacts	81

Introduction

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

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v53.0

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 3		1	2	15
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 7			1	3
Local Authority Integrated Pollution Prevention And Control	pg 8				1
Local Authority Pollution Prevention and Controls	pg 8				4
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9		1	6	10
Prosecutions Relating to Authorised Processes	pg 12				1
Registered Radioactive Substances	pg 12				7
River Quality	pg 13				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 13			1	1
Water Abstractions	pg 13				(*4)
Water Industry Act Referrals	pg 14				1
Groundwater Vulnerability	pg 14	Yes	n/a	n/a	n/a
Drift Deposits	pg 14	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 15	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 15	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15		6	38	242

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 48		1		
Historical Landfill Sites	pg 48		1		2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 48			2	
Licensed Waste Management Facilities (Locations)	pg 49			1	8
Local Authority Landfill Coverage	pg 51	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 51		1	1	
Potentially Infilled Land (Non-Water)	pg 51		1		6
Potentially Infilled Land (Water)	pg 51		5	11	8
Registered Landfill Sites	pg 53			2	1
Registered Waste Transfer Sites	pg 54			1	4
Registered Waste Treatment or Disposal Sites	pg 56				2
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					

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 57	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 57	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 60			1	8
BGS Urban Soil Chemistry	pg 62		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 65	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 65	Yes	n/a	n/a	n/a
Mining Instability	pg 65	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 65	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 65		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 65	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 65	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 66	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 67		4	9	15
Fuel Station Entries	pg 69				1
Points of Interest - Commercial Services	pg 69		1	6	7
Points of Interest - Education and Health	pg 70				1
Points of Interest - Manufacturing and Production	pg 70			4	7
Points of Interest - Public Infrastructure	pg 71		2	6	8
Points of Interest - Recreational and Environmental	pg 73				5
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 74				5
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

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	A13SW (E)	0	1	273812 195418
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	273812 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	0	1	273800 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	0	1	273812 195450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	15	1	273812 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	24	1	273750 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	28	1	273800 195500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	171	1	273650 195550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	205	1	274000 195600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	207	1	273700 195650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	214	1	273550 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	214	1	273550 195418
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	220	1	273550 195450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	234	1	273750 195700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	237	1	273600 195600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	264	1	273500 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	267	1	273500 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	269	1	273500 195450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	274	1	273800 195750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	276	1	273500 195300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	298	1	274150 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	314	1	273450 195400

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	A12SE (W)	314	1	273450 195418
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	316	1	273450 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	339	1	273450 195250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	346	1	274200 195350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	359	1	273450 195200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	362	1	273812 195000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	364	1	273400 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	404	1	273400 195200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	409	1	274250 195300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	414	1	273350 195400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	427	1	273400 195150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	463	1	273750 194900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	464	1	273300 195418
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	468	1	273700 194900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	479	1	274300 195650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	484	1	273450 195800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	492	1	274150 195000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	495	1	273350 195100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	498	1	273550 195900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Saltings Ps Authority: Natural Resources Wales Catchment Area: Not Given Reference: BO5114701 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Neath Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13NW (N)	28	2	273800 195500
2	Discharge Consents Operator: Neath Port Talbot Waste Management Co Ltd Property Type: Household, Commercial and Industrial Waste Landfills Location: D2 Se Corner Giants Grave Landfill, D2 Se Corner Giants Grave Lfill, Giants Grave Road, Briton Ferry Neath, Sa11 Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp027880101 Permit Version: 1 Effective Date: 9th November 1999 Issued Date: 9th November 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Saline Estuary Environment: Receiving Water: Neath Estuary 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 (W)	316	2	273450 195350
3	Discharge Consents Operator: Neath Port Talbot Waste Management Co Ltd Property Type: Household, Commercial and Industrial Waste Landfills Location: D3 Ne Corner Giants Grave Landfill, De Ne Corner Giants Grave Lfill, Giants Grave Road, Briton Ferry Neath, Sa11 Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp027870101 Permit Version: 1 Effective Date: 9th November 1999 Issued Date: 9th November 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Saline Estuary Environment: Receiving Water: Neath Estuary 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	A18SW (N)	374	2	273800 195850
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Giants Grave Outfall Briton Ferry Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0064305 Permit Version: 3 Effective Date: 29th March 1996 Issued Date: 28th March 1996 Revocation Date: 31st December 1997 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Estuarial Waters Of River Neat Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	639	2	273510 194780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Giants Grave Outfall Briton Ferry Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0064305 Permit Version: 2 Effective Date: 28th November 1992 Issued Date: 28th August 1992 Revocation Date: 28th March 1996 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Estuarial Waters Of River Neat Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	639	2	273510 194780
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Giants Grave Outfall Briton Ferry Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0064305 Permit Version: 1 Effective Date: 9th October 1987 Issued Date: 9th October 1987 Revocation Date: 27th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Estuarial Waters Of River Neat Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	639	2	273510 194780
5	Discharge Consents Operator: Neath Waste Management Co Ltd Property Type: Unspecified Tip Location: Giants Grave Waste Dis Site Giants, Giants Grave Road Briton Ferry N, Briton Ferry Neath Authority: Natural Resources Wales Catchment Area: River Neath Reference: BP0236201 Permit Version: 2 Effective Date: 1st March 1996 Issued Date: 28th February 1996 Revocation Date: Not Supplied Discharge Type: Waste Site - Unspecified Discharge: Saline Estuary Environment: Receiving Water: The Neath Estuary Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12SW (W)	697	2	273070 195320
5	Discharge Consents Operator: Neath Waste Management Co Ltd Property Type: Unspecified Tip Location: Giants Grave Waste Dis Site Giants, Giants Grave Road Briton Ferry N, Briton Ferry Neath Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0236201 Permit Version: 1 Effective Date: 20th February 1995 Issued Date: 20th February 1995 Revocation Date: 29th February 1996 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: The Neath Estuary Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	697	2	273070 195320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Penrhiwtyn Ps Eo Neath Npt, Penrhiwtyn, Neath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bo5110401 Permit Version: 2 Effective Date: 1st April 2006 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Canal Environment: Neath Canal Receiving Water: Neath Canal Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	722	2	274200 196100
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Penrhiwtyn Ps Eo Neath Npt, Penrhiwtyn, Neath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bo5110401 Permit Version: 2 Effective Date: 1st April 2006 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Canal Environment: Neath Canal Receiving Water: Neath Canal Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	722	2	274200 196100
6	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Penrhiwtyn Ps Eo Neath Npt, Penrhiwtyn, Neath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: Not Given Reference: BO5110401 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 23rd March 2005 Discharge Type: Unspecified Discharge: Not Supplied Environment: Neath Canal Receiving Water: Neath Canal Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	722	2	274200 196100
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Giants Grave Sps Pill Terrace, Pill Terrace, Giants Grave, Neath Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp028330101 Permit Version: 1 Effective Date: 15th December 2000 Issued Date: 15th December 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Neath Estuary Receiving Water: Neath Estuary 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	A7SE (SW)	739	2	273390 194730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Giants Grave Sps Pill Terrace, Pill Terrace Giants Grave, Neath Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Bp028330102 Permit Version: 1 Effective Date: 15th December 2000 Issued Date: 15th December 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Neath Estuary Receiving Water: Neath Estuary 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	A7SE (SW)	739	3	273390 194730
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Giants Grave Sps Pill Terrace, Pill Terrace Giants Grave, Neath Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp028330101 Permit Version: 1 Effective Date: 15th December 2000 Issued Date: 15th December 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Saline Estuary Environment: Neath Estuary Receiving Water: Neath Estuary 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	A7SE (SW)	739	2	273390 194730
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Sso Sth Of Giants Grave Point J Authority: Natural Resources Wales Catchment Area: River Neath Reference: BB4000502 Permit Version: 2 Effective Date: 14th March 1994 Issued Date: 14th March 1994 Revocation Date: 31st March 2003 Discharge Type: Unspecified Discharge: Not Supplied Environment: River Neath Receiving Water: River Neath Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	841	2	273360 194630
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Sso Sth Of Giants Grave Point J Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bb4000502 Permit Version: 1 Effective Date: 8th November 1972 Issued Date: 8th November 1972 Revocation Date: 13th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: River Neath Receiving Water: River Neath Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	841	2	273360 194630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Penrhiwtyn Sps Neath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: River Neath Reference: Bp0256001 Permit Version: 2 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Estuarial Waters Of The River Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NE (N)	893	2	274024 196350
10	Discharge Consents Operator: High Duty Alloys Ltd Property Type: Metal Treatment, Bolts, Nuts Etc. Location: Neath Wern Works Briton Ferry, Wern Works, Neath, Neath Port Talbot Authority: Natural Resources Wales Catchment Area: River Neath Reference: Ba2015101 Permit Version: 1 Effective Date: 21st August 1963 Issued Date: 21st August 1963 Revocation Date: 31st October 1996 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Neath Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	940	2	273400 194500
11	Integrated Pollution Prevention And Control Name: Neath Port Talbot Waste Management Company Limited Location: Giants Grave Landfill Site, Giants Grave Road, SA11 2LN Authority: Natural Resources Wales Permit Reference: EP3831LW Original Permit Ref: Hp3535ps Effective Date: 4th January 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N	A8NW (SW)	413	2	273555 195011
12	Integrated Pollution Prevention And Control Name: Neath Port Talbot Waste Management Co Ltd Location: Giants Grave Landfill Site, Giants Grave Road, NEATH, West Glamorgan, SA11 2LN Authority: Natural Resources Wales Permit Reference: Hp3535ps Original Permit Ref: Hp3535ps Effective Date: 16th May 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (SW)	525	2	273573 194877

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Integrated Pollution Prevention And Control Name: Baglan Operations Ltd Location: Old Road, Briton Ferry, PORT TALBOT, West Glamorgan, SA11 2S Authority: Environment Agency, Welsh Region Permit Reference: Bj7891 Original Permit Ref: Bj7891 Effective Date: 31st December 2001 Status: Superseded By Variation Application Type: PPC APPLICATION App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Not Supplied	A14SW (SE)	621	3	274403 195119
14	Integrated Pollution Prevention And Control Name: Neath Port Talbot Waste Management Co Ltd Location: Giants Grave Landfill Site, Giants Grave Road, Neath, Neath Port Talbot, SA11 2LN Authority: Natural Resources Wales Permit Reference: YP3533MC Original Permit Ref: Hp3535ps Effective Date: 8th August 2008 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N	A7NE (SW)	723	2	273170 194960
15	Local Authority Integrated Pollution Prevention And Control Name: Crown Packaging Uk Plc Location: Neath Factory, Po Box 20, Canalside, Neath, SA11 1PQ Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/104 Dated: Not Supplied Process Type: Production and Processing of Metals Description: SG6 Status: Permit Issued Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	999	4	274329 196345
16	Local Authority Pollution Prevention and Controls Name: Neath Cargo Terminal Location: Giants Wharf, Briton Ferry, NEATH, SA11 2LP Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E2/8/F Dated: 28th January 1993 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	657	4	273527 194753
17	Local Authority Pollution Prevention and Controls Name: Bfs Location: Giants Grave, Briton Ferry, Swansea Authority: Swansea Bay Port Health Authority Permit Reference: E2/8/F Dated: 28th January 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes Status: Permitted Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	670	5	273402 194804
18	Local Authority Pollution Prevention and Controls Name: Totalfinaelf Uk Ltd Location: Neath Road, Briton Ferry, NEATH, West Glamorgan, SA11 2AX Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/77 Dated: 25th June 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation has varied Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	949	4	274314 194560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Local Authority Pollution Prevention and Controls Name: Crown Packaging Uk Plc Location: Neath Factory, PO Box 20, Canalside, NEATH, West Glamorgan, SA11 1PQ Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/104 Dated: 14th September 1993 Process Type: Local Authority Air Pollution Control Description: PG4/1 Processes for the surface treatment of metals Status: Transferred to LAIPPC Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	999	4	274329 196345
	Nearest Surface Water Feature	A13NW (NW)	121	-	273714 195559
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lane Behind Giants Grave Road, BRITON FERRY Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Blockage Incident Date: 6th April 1997 Incident Reference: 31775 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	126	3	273800 195600
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Grandison Point Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 21st October 1994 Incident Reference: 21647 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	367	3	274200 195600
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent Giants Grave Woods Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Tip Leachate Note: Neath Canal Overflow; Run-Off Incident Date: 8th January 1998 Incident Reference: 34534 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	377	3	273400 195500
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 100 Yards Upstream Tip Road, Between Mellon And, Briton Ferry Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Tip Leachate Note: Neath Canal Overflow; Run-Off Incident Date: 19th November 1997 Incident Reference: 34266 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	427	3	273900 195900
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Grandison Park, NEATH Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 7th September 1994 Incident Reference: 21052 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	A14NW (E)	436	3	274300 195495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Opposite Neath Hospital, By Footbridge Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 1st December 1994 Incident Reference: 21948 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	437	3	274300 195500
25	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Maternity, Unit At Neath, General Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Accidental Spillage/Leakage Incident Date: 8th November 1994 Incident Reference: 21770 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	487	3	274200 195800
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Farm Road And, Grandison Pub Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Not Supplied Incident Date: 13th July 1995 Incident Reference: 25165 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	503	3	274300 195700
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: At Entrance To Giants Grave Site Authority: Environment Agency, Welsh Region Pollutant: Road Run-Off Note: Inadequate Design; Neath Canal Overflow Incident Date: 30th July 1998 Incident Reference: 36892 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	A8NW (SW)	513	3	273550 194900
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Bt Manhole In Authority: Environment Agency, Welsh Region Pollutant: Cesspit Contents Note: Not Supplied Incident Date: 12th August 1994 Incident Reference: 20823 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	536	3	274400 195500
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Garage Tended, Fire Service, Has Been Closed Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 30th October 1994 Incident Reference: 21651 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)	560	3	274300 195800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Unknown; River Neath Incident Date: 23rd November 1998 Incident Reference: 37237 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	A7NE (SW)	734	3	273300 194800
31	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Old Ship, Breaking Yard, NEATH Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Inadequate Design/Capacity Incident Date: 10th February 1996 Incident Reference: 27419 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	A7NE (SW)	734	3	273200 194900
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Old Ship Breaking Yard, NEATH Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Inadequate Design/Capacity Incident Date: 10th February 1996 Incident Reference: 27419 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	A7NE (SW)	738	3	273200 194895
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Neath Cargo Terminal, Adjacent Giants Grave Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 3rd June 1991 Incident Reference: 829 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	984	3	273300 194500
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Pant Howel Ddu, Ynysmaerdy Road, Briton Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Not Supplied Incident Date: 27th February 1995 Incident Reference: 23516 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	A14SE (E)	995	3	274800 195100
34	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Villiers Street, BRITON FERRY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Vandalism Incident Date: 26th May 1991 Incident Reference: 772 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	A3NW (S)	1000	3	273500 194400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Prosecutions Relating to Authorised Processes Location: Land At Rear Of Park View Terrace, Briton Ferry, Sa11 Prosecution Text: Storing controlled waste on land without a WML - 12 month community punishment order served Prosecution Act: Epa90 S33 & S34 Hearing Date: 1st October 2008 Verdict: Guilty Fine: 0 Costs: 0 Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	858	3	274018 194535
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath General Hospital, NEATH, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: AY1072 Dated: 28th February 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Unknown	A14NW (NE)	651	2	274440 195754
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Penrhiwtyn, Neath, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: BI0987 Dated: 31st July 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A14NW (NE)	656	2	274445 195754
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath General Hospital, NEATH, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: Bh9957 Dated: 16th March 2000 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A14NW (NE)	656	2	274445 195754
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath General Hospital, Penrhiwtyn, NEATH, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: AH7704 Dated: 14th July 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Unknown	A14NW (NE)	656	2	274445 195754
36	Registered Radioactive Substances Name: Bro Morgannwg Nhs Trust Location: Penrhiwtyn, Neath, West Glamorgan, SA11 2LQ Authority: Environment Agency, Welsh Region Permit Reference: Bt1797 Dated: Not Supplied Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised Positional Accuracy: Automatically positioned to the address	A14NW (NE)	656	3	274445 195754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath General Hospital, Penrhiwtyn, NEATH, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: AQ6813 Dated: 4th April 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Unknown	A14NW (NE)	660	2	274450 195754
36	Registered Radioactive Substances Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath General Hospital, Penrhiwtyn, NEATH, West Glamorgan, SA11 2LQ Authority: Natural Resources Wales Permit Reference: AT7545 Dated: 3rd January 1996 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Unknown	A19SW (NE)	662	2	274450 195759
	River Quality Name: Neath Canal GQA Grade: River Quality D Reach: Conf.Neath - Aberdulais Aqueduct Estimated Distance (km): 8 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A12SW (W)	636	3	273136 195283
37	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 28th October 2001 Incident Reference: 39936 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Diesel (Including Agricultural)	A19SW (NE)	475	2	274213 195770
38	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 25th May 2001 Incident Reference: 6653 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Metal Wastes	A8NW (S)	612	2	273555 194790
	Water Abstractions Operator: Hope Cement Limited Licence Number: Wa/058/0072/0009 Permit Version: Not Supplied Location: Neath Canal - Hope Cement, Wharf Road, Briton Ferry, Neath, Neath Port Talbot, Sa11 2lp Authority: Natural Resources Wales Abstraction: Mineral Products: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (S)	1317	2	273419 194094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Hope Construction Materials Limited Licence Number: 21/58/72/0036 Permit Version: 3 Location: Inland Water The Neath Canal Authority: Natural Resources Wales Abstraction: Mineral Products: General Use (Medium Loss) 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: 9th December 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (S)	1323	2	273410 194090
	Water Abstractions Operator: Lafarge Spv Limited Licence Number: 21/58/72/0036 Permit Version: 2 Location: Inland Water The Neath Canal Authority: Natural Resources Wales Abstraction: Mineral Products: General Use (Medium Loss) 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: 27th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (S)	1323	2	273410 194090
	Water Abstractions Operator: Lafarge Aggregates Limited Licence Number: 21/58/72/0036 Permit Version: 1 Location: Inland Water The Neath Canal Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: General Use (Medium Loss) 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: 3rd February 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NE (S)	1323	3	273410 194090
39	Water Industry Act Referrals Name: Neath Waste Management Co Ltd Location: Giants Grave Waste Dis Site Gian, Giants Grave Road Briton Ferry N, BRITON FERRY NEATH, Neath, NEATH Authority: Natural Resources Wales Permit Reference: BP0236201 Dated: 28th February 1996 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Located by supplier to within 10m	A12SW (W)	697	2	273070 195320
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 35 West Glamorgan Scale: 1:100,000	A13SW (E)	0	3	273812 195418
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 35 West Glamorgan Scale: 1:100,000	A13SW (E)	0	3	273812 195418

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (E)	0	1	273812 195418
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (E)	0	1	273812 195418
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	0	2	273820 195447
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	8	2	273813 195482
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	79	2	273744 195522
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	86	2	273733 195516
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	88	2	273731 195517
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	134	2	273690 195537
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	249	2	273613 195632
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	273842 195463
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	181	2	273604 195489
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	125	6	273744 195582
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	141	6	273686 195545

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	223	6	274002 195624
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	226	6	274005 195625
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	229	6	274008 195625
45	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 2006.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 1	A13NW (NW)	240	6	273615 195622
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	254	6	274044 195627
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 555.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NW (NW)	262	6	273605 195644
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	297	6	273468 195356
49	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 230.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 2	A12SE (W)	297	6	273468 195356
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (N)	308	6	273907 195777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	313	6	273452 195362
52	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	313	6	273452 195362
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	314	6	273450 195384
54	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	315	6	273450 195366
55	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 187.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	316	6	273451 195345
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	322	6	273443 195365
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	325	6	274131 195635
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A13NE (NE)	331	6	274138 195635
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (E)	354	6	274196 195576

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (NE)	363	6	274175 195638
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (NE)	372	6	274186 195637
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 400.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (NE)	376	6	274190 195637
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (N)	387	6	273847 195864
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (E)	402	6	274262 195521
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 189.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	406	6	274025 195835
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 284.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SE (NE)	406	6	274025 195835
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (E)	410	6	274271 195516
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 674.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A14NW (E)	421	6	274283 195514

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SE (W)	474	6	273314 195229
70	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 39.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	474	6	273314 195229
71	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 290.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 2	A12SE (SW)	476	6	273333 195172
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12SE (SW)	476	6	273333 195172
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	478	6	273286 195366
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SE (W)	480	6	273304 195242
75	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: Neath Primacy: 2	A12SE (SW)	480	6	273325 195181
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12SE (SW)	482	6	273323 195183
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12SE (SW)	484	6	273320 195185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 215.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (SW)	487	6	273313 195192
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	487	6	273277 195379
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	490	6	273279 195317
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	491	6	273277 195323
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 254.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	494	6	273285 195260
83	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: Neath Primacy: 1	A18SW (N)	500	6	273724 195966
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	506	6	273259 195361
85	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 67.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	509	6	273269 195264
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	515	6	273249 195372

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 421.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 2	A8NW (S)	538	6	273598 194854
88	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 2	A8NW (S)	539	6	273600 194852
89	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 864.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Jersey Canal Catchment Name: Neath Primacy: 2	A8NW (S)	541	6	273606 194848
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18SW (N)	547	6	273676 196005
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 670.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18SW (N)	560	6	273615 195999
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	563	6	273201 195412
93	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 34.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	576	6	273205 195242
94	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	576	6	273205 195242
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NE (W)	577	6	273189 195446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	578	6	274170 195948
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	579	6	274168 195950
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	587	6	273186 195281
99	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	597	6	273178 195269
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12SE (W)	599	6	273191 195204
101	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	599	6	273191 195204
102	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	603	6	273175 195257
103	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: Neath Primacy: 1	A12SE (W)	606	6	273169 195273
104	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	606	6	273169 195273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	607	6	273171 195256
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SE (W)	610	6	273184 195191
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	638	6	273131 195306
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	643	6	273139 195230
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	651	6	273135 195215
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A12SW (W)	651	6	273126 195255
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	651	6	273114 195320
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	662	6	273113 195266
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	663	6	273113 195262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	665	6	273123 195204
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	670	6	273122 195190
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NE (SW)	673	6	273243 194944
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	678	6	273120 195167
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	678	6	273633 196128
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (W)	682	6	273102 195565
120	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	687	6	273704 196153
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (W)	688	6	273078 195449
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	688	6	273078 195449

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	691	6	273716 196159
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NE (SW)	691	6	273246 194913
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	693	6	273577 196127
126	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	693	6	273577 196127
127	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	693	6	273577 196127
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	694	6	273597 196134
129	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (SW)	695	6	273124 195105
130	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 29.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (SW)	695	6	273120 195113
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	695	6	274178 196082

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	696	6	273639 196148
133	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 81.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (SW)	697	6	273123 195102
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	700	6	274271 196024
135	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Neath Canal Catchment Name: Neath Primacy: 2	A7NE (SW)	701	6	273232 194914
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 241.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (NW)	702	6	273137 195722
137	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 148.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	703	6	273065 195311
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 310.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18NW (N)	714	6	273766 196189
139	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	717	6	273537 196137
140	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	718	6	273539 196139

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19SW (NE)	718	6	274262 196054
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SE (NW)	731	6	273239 195934
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18NW (N)	733	6	273736 196205
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	734	6	273608 196180
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	736	6	273043 195549
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	743	6	273826 196221
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	743	6	273036 195550
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	743	6	273036 195550
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	744	6	273039 195572

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	744	6	273036 195556
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	746	6	273847 196223
152	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	748	6	273048 195165
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	748	6	273050 195628
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	748	6	273050 195628
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SE (NW)	749	6	273355 196071
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	750	6	273641 196205
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	751	6	273837 196229
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	753	6	273675 196215

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A12SW (SW)	757	6	273058 195103
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	757	6	273059 195678
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (W)	757	6	273059 195678
162	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 224.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A12SW (SW)	757	6	273058 195103
163	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 32.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	758	6	273548 196186
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	758	6	273552 196187
165	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	759	6	273522 196176
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	759	6	273059 195684
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (W)	759	6	273059 195684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	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: Neath Primacy: 1	A12NW (W)	762	6	273019 195558
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	767	6	274271 196107
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	769	6	273565 196203
171	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	771	6	273518 196188
172	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1261.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A12SW (W)	773	6	273023 195160
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	776	6	273617 196226
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	776	6	273619 196227
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	776	6	274287 196107
176	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: Not Supplied Primacy: 1	A12NW (NW)	782	6	273063 195753

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (NW)	782	6	273063 195753
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	783	6	274298 196109
179	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A17SW (NW)	788	6	273063 195766
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	788	6	273063 195766
181	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	790	6	273590 196233
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	791	6	273738 196263
183	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: Neath Primacy: 1	A18NW (N)	793	6	273735 196264
184	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	795	6	273054 195761
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	795	6	273054 195761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	797	6	273591 196241
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	799	6	273665 196260
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	799	6	273665 196260
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	800	6	273001 195642
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	800	6	273001 195642
191	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 410.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A17NE (NW)	805	6	273419 196178
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	807	6	273607 196255
193	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	812	6	273757 196286
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	813	6	273619 196264

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 423.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	814	6	273491 196224
196	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 269.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A7NE (SW)	815	6	273228 194755
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	818	6	273610 196267
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	825	6	273719 196294
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	825	6	273714 196295
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	827	6	272968 195629
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	827	6	273642 196284
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	827	6	273757 196301
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	827	6	273757 196301

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 91.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Jacket Pill Catchment Name: Not Supplied Primacy: 1	A7NW (SW)	831	6	273089 194886
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	832	6	272969 195648
206	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 609.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A7SE (SW)	833	6	273271 194696
207	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A7SE (SW)	833	6	273271 194696
208	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	834	6	273738 196306
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18NW (N)	837	6	273741 196310
210	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	838	6	273712 196307
211	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	849	6	272971 195709
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	852	6	273765 196327

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 186.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Nedd Catchment Name: Neath Primacy: 1	A7SE (SW)	852	6	273272 194673
214	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	854	6	273670 196317
215	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	855	6	274532 194880
216	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	855	6	274532 194880
217	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	855	6	274542 194893
218	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	856	6	272926 195210
219	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	856	6	273946 196327
220	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NW (SE)	857	6	274444 194773
221	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	858	6	272962 195707

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NW (SE)	861	6	274442 194767
223	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	861	6	274495 194822
224	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	862	6	273955 196331
225	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	865	6	274512 194837
226	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NW (SE)	866	6	274437 194755
227	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	868	6	273667 196331
228	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	868	6	273667 196331
229	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	874	6	273740 196346
230	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	874	6	273881 196350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 590.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9SW (SE)	874	6	274412 194721
232	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	878	6	273708 196346
233	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	880	6	273040 195910
234	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	881	6	274579 194902
235	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 151.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	881	6	274579 194902
236	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	885	6	272896 195210
237	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17SW (NW)	885	6	273033 195908
238	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 220.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (SW)	885	6	272944 195044
239	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 2	A18NE (N)	889	6	273824 196367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	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: Neath Primacy: 1	A18NE (N)	890	6	273825 196368
241	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: Neath Primacy: 1	A18NE (N)	890	6	273825 196368
242	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	890	6	273823 196368
243	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	892	6	273795 196369
244	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	893	6	273844 196371
245	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Jacket Pill Catchment Name: Not Supplied Primacy: 1	A7NW (SW)	896	6	273006 194896
246	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A7NW (SW)	896	6	273006 194896
247	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 88.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NW (SW)	896	6	272992 194918
248	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 13.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7NW (SW)	899	6	272996 194905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
249	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	902	6	272884 195182
250	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	903	6	274597 194890
251	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 424.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Red Jacket Pill Catchment Name: Neath Primacy: 1	A7NW (SW)	903	6	272999 194893
252	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	904	6	273421 196290
253	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: Neath Primacy: 1	A18NW (N)	904	6	273754 196378
254	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 60.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	905	6	272880 195187
255	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	905	6	272880 195187
256	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A19NW (NE)	906	6	274378 196202
257	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 87.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (SW)	907	6	272949 194977

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
258	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	909	6	273917 196383
259	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	909	6	274603 194888
260	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: Neath Primacy: 1	A18NE (N)	917	6	273826 196395
261	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	920	6	273501 196341
262	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	921	6	273789 196398
263	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	923	6	273893 196399
264	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	926	6	273860 196403
265	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	926	6	273859 196404
266	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	931	6	273846 196409

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	932	6	273893 196407
268	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	932	6	273893 196407
269	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (W)	933	6	272893 195044
270	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	933	6	273854 196410
271	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (W)	933	6	272893 195044
272	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	936	6	273833 196414
273	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	938	6	273479 196352
274	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	938	6	273488 196355
275	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (W)	942	6	272874 195069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	942	6	272848 195163
277	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (W)	944	6	272874 195065
278	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	944	6	272827 195511
279	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: Neath Primacy: 1	A18NW (N)	947	6	273491 196366
280	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	947	6	273491 196366
281	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	947	6	272841 195169
282	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	947	6	272824 195516
283	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	947	6	272824 195516
284	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	948	6	272863 195085

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
285	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	948	6	272816 195381
286	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7NW (W)	949	6	272863 195080
287	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 91.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12NW (W)	949	6	272816 195443
288	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	954	6	272810 195397
289	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	955	6	274051 196407
290	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 61.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	955	6	272811 195336
291	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 18.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	955	6	272809 195366
292	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	956	6	272825 195210
293	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 20.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	956	6	272825 195210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
294	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	956	6	273554 196395
295	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	956	6	272808 195370
296	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A12NW (W)	956	6	272812 195487
297	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	961	6	272803 195353
298	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	963	6	272826 195162
299	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	963	6	272826 195162
300	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NE (N)	966	6	274041 196421
301	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A11SE (W)	969	6	272799 195299
302	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (N)	971	6	273454 196378

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
303	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	971	6	272797 195300
304	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: Neath Primacy: 1	A12SW (W)	973	6	272805 195217
305	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 22.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12SW (W)	973	6	272805 195217
306	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A11SE (W)	973	6	272797 195282
307	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	974	6	272790 195389
308	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: Not Supplied Primacy: 1	A11SE (W)	975	6	272795 195286
309	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: Neath Primacy: 1	A12SW (W)	976	6	272805 195200
310	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	977	6	272803 195206
311	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A18NW (N)	978	6	273508 196405

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
312	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A11SE (W)	980	6	272794 195242
313	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	980	6	272811 195155
314	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A12SW (W)	980	6	272811 195155
315	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 308.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	983	6	272791 195247
316	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A23SE (N)	983	6	274061 196434
317	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	984	6	272785 195286
318	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A11SE (W)	984	6	272785 195286
319	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	985	6	272791 195234
320	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 253.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A7SE (SW)	986	6	273272 194513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
321	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A17NE (NW)	989	6	273402 196375
322	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A9NE (SE)	990	6	274723 194933
323	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	992	6	272778 195280
324	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11SE (W)	992	6	272778 195280
325	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Neath Primacy: 1	A11NE (W)	1000	6	272770 195506

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	BGS Recorded Landfill Sites Site Name: Giants Grave Tip Location: Briton Ferry, NEATH, Glam Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13NW (NW)	248	-	273610 195627
327	Historical Landfill Sites Licence Holder: Neath Borough Council Location: Briton Ferry, Neath, Glamorgan Name: Giants Grave Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31231 First Input Date: 30th June 1962 Last Input Date: 31st March 1993 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6930/0006 BGS Ref: 2676 Other Ref: SWW-68-L	A13NW (NW)	248	2	273610 195627
328	Historical Landfill Sites Licence Holder: Norbit Wharfage Limited Location: Briton Ferry, Neath Name: Giants Wharf Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14877 First Input Date: 30th June 1988 Last Input Date: 31st December 1989 Specified Waste Type: Deposited Waste included Inert, Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6930/0007 BGS Ref: Not Supplied Other Ref: Not Supplied	A8NW (SW)	630	2	273507 194791
329	Historical Landfill Sites Licence Holder: Not Supplied Location: Briton Ferry, Neath Name: Briton Ferry Waste Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34824 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A7SE (SW)	861	2	273187 194730
330	Licensed Waste Management Facilities (Landfill Boundaries) Name: Giants Grave Landfill Licence Number: 34060 Location: The Saltings, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN Licence Holder: Neath Port Talbot Waste Management Co Ltd Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Closure Issued: 1st April 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NW (NW)	254	2	273603 195628

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	Licensed Waste Management Facilities (Landfill Boundaries) Name: Giants Grave Landfill Site (Ppc) Licence Number: 34272 Location: Giants Grave, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN Licence Holder: Neath Port Talbot Waste Management Co Ltd Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: PPC Issued: 24th June 2005 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A12SE (W)	340	2	273442 195269
332	Licensed Waste Management Facilities (Locations) Licence Number: 34061 Location: Giants Grave Civic Amenity Site, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN Operator Name: Neath Waste Management Co Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 1st April 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 19th April 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	413	2	273400 195600
333	Licensed Waste Management Facilities (Locations) Licence Number: 34272 Location: Giants Grave, Giants Grave Road, Briton Ferry, Neath, N P T, SA11 2LN Operator Name: Neath Port Talbot Waste Management Co Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: To PPC Issued: 24th June 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: HP3535PS Positional Accuracy: Located by supplier to within 10m	A8NW (S)	521	2	273598 194872
334	Licensed Waste Management Facilities (Locations) Licence Number: ZP3198FN Location: Briton Ferry Shipping Services Ltd, Briton Ferry Shipping Services Ltd, Giants Wharf, Briton Ferry, Neath, N P T, Neath Port Talbot, SA11 2LP Operator Name: Briton Ferry Shipping Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 22nd September 2017 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	A8NW (S)	564	2	273609 194823
334	Licensed Waste Management Facilities (Locations) Licence Number: ZP3198FN Location: Briton Ferry Shipping Services Ltd, Briton Ferry Shipping Services Ltd, Giants Wharf, Briton Ferry, Neath, N P T, Neath Port Talbot, SA11 2LP Operator Name: Briton Ferry Shipping Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 22nd September 2017 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	A8NW (S)	564	2	273609 194823

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
334	Licensed Waste Management Facilities (Locations) Licence Number: 34183 Location: Briton Ferry Shipping Services Ltd, Giants Wharf, Briton Ferry, Neath, SA11 2LP Operator Name: Briton Ferry Shipping Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations Licence Status: Issued Issued: 30th January 2001 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	A8NW (S)	564	2	273609 194823
335	Licensed Waste Management Facilities (Locations) Licence Number: 34102 Location: Pant Yr Heol, Neath, N P T, SA11 2LQ Operator Name: Glan Y Mor NHS Trust Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Stations Licence Status: Surrendered Issued: 8th July 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 7th December 2001 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	683	2	274500 195700
336	Licensed Waste Management Facilities (Locations) Licence Number: 34155 Location: Land At Giants Wharf, Briton Ferry, Neath, N P T, SA11 2LN Operator Name: Neath Port Talbot Waste Management Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: Surrendered Issued: 29th May 1998 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 31st August 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SW (S)	685	2	273600 194700
337	Licensed Waste Management Facilities (Locations) Licence Number: 34060 Location: The Saltings, Giants Grave Road, Briton Ferry, Neath, SA11 2LN Operator Name: Neath Waste Management Co Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Modified Issued: 1st April 1993 Last Modified: 17th July 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	719	2	273172 194963

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
337	Licensed Waste Management Facilities (Locations) Licence Number: 34259 Location: Briton Ferry Wharf, Briton Ferry, Neath, SA11 2LP Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Modified Issued: 18th March 2005 Last Modified: 7th December 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	746	2	273170 194920
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	4	273812 195418
338	Local Authority Recorded Landfill Sites Location: Landfill - Neath Reference: Not Supplied Authority: Neath Port Talbot County Borough Council, Environmental Health Department Last Reported Status: Not Supplied Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A13NW (NW)	248	4	273613 195631
339	Local Authority Recorded Landfill Sites Location: Giants Grave Landfill Reference: Not Supplied Authority: Neath Port Talbot County Borough Council, Environmental Health Department Last Reported Status: Not Supplied Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A12SE (W)	364	4	273400 195400
340	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SW (W)	154	-	273610 195408
341	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1980	A7NE (SW)	512	-	273469 194950
342	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1980	A8SW (S)	805	-	273500 194605
343	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	820	-	274556 195888
344	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NE (E)	828	-	274693 195511
345	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	955	-	274397 196249
346	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	966	-	274223 196361
347	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A13NW (N)	59	-	273782 195527

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
348	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13NW (N)	102	-	273757 195562
349	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A13NE (N)	144	-	273845 195621
350	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A13NE (N)	150	-	273866 195624
351	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A13NW (NW)	169	-	273692 195596
352	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A13NW (NW)	263	-	273555 195570
353	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A13NW (N)	272	-	273700 195723
354	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A13NE (NE)	276	-	274091 195606
355	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A13NE (NE)	286	-	274117 195584
356	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A13NW (NW)	309	-	273503 195574
357	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12SE (W)	316	-	273448 195405
358	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A18SE (NE)	318	-	273979 195760
359	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A18SE (N)	356	-	273952 195813
360	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12NE (NW)	441	-	273373 195610
361	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A14NW (E)	460	-	274323 195507
362	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A14NW (E)	460	-	274315 195552
363	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A17SE (NW)	597	-	273322 195821
364	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SE (NW)	606	-	273434 195951
365	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A17SE (NW)	632	-	273380 195939
366	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A14SE (E)	700	-	274533 195228
367	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8SE (S)	841	-	274063 194567
368	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1940	A18NE (N)	878	-	274090 196317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
369	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A17NE (NW)	931	-	273252 196220
370	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A19NW (N)	968	-	274187 196379
371	Registered Landfill Sites Licence Holder: Neath B.C. Licence Reference: 1 Site Location: Giants Grave, Briton Ferry, Neath, West Glamorgan Licence Easting: 273400 Licence Northing: 195595 Operator Location: Civic Centre, NEATH, West Glamorgan, SA11 3QZ Authority: Environment Agency Wales, South West Area Site Category: Landfill - with civic amenity Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: NBWD 1 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Household + Commercial Waste Industrial Wastes Prohibited Waste: Percussive/Explosive/Similar Waste Radioactive Wastes Special Wastes Uk Listed Substances In 76/484/Ec Waste In Highly Flam.Waste Regs '72	A12NE (NW)	410	3	273400 195595
372	Registered Landfill Sites Licence Holder: Neath Waste Management Company Ltd Licence Reference: NBWD 1 Site Location: Giant'S Grave, Briton Ferry, Neath, West Glamorgan Licence Easting: 273500 Licence Northing: 195800 Operator Location: Giant's Grave Road, Briton Ferry, NEATH, West Glamorgan, SA11 2LN Authority: Environment Agency Wales, South West Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 1st April 1993 Preceded By: 1 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Household + Commercial Waste Industrial Wastes Road Gulley Emptyings Road Sweepings Waste Prohibited Waste: Percussive/Explosive/Similar Waste Radioactive Wastes Special Wastes Uk Listed Substances In 76/484/Ec Waste In Highly Flam.Waste Regs '72	A18SW (NW)	449	3	273500 195800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
373	Registered Landfill Sites Licence Holder: Norbrit Wharfage Licence Reference: . Site Location: Giants Wharf, Briton Ferry, Neath, West Glamorgan Licence Easting: 273440 Licence Northing: 194750 Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brick, Stone, Hardcore Demolition Wastes, Fabric Of Buildings Soil, Subsoil	A7NE (SW)	697	3	273440 194750
374	Registered Waste Transfer Sites Licence Holder: Neath Waste Management Company Ltd Licence Reference: NBWD 4 Site Location: Giant's Grave C.A.Site, Briton Ferry, NEATH, West Glamorgan, SA11 2LN Operator Location: Giant's Grave Road, Briton Ferry, NEATH, West Glamorgan, SA11 2LN Authority: Environment Agency Wales, South West Area Site Category: Civic Amenity Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st April 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Household Waste Prohibited Waste: Commercial Waste Hazardous Wastes Industrial Wastes Special Wastes	A8NW (S)	494	3	273600 194900
375	Registered Waste Transfer Sites Licence Holder: Glan-Y-Mor Nhs Trust Licence Reference: NBWD 3 Site Location: Neath General Hospital, Pant Yr Heol, NEATH, West Glamorgan, SA11 2LQ Operator Location: 21 Orchard Street, SWANSEA, West Glamorgan, SA1 5AQ Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Operational as far as is knownOperational Dated: 24th September 1996 Preceded By: NBWD 3 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Clinical Waste Max.Stor Food Waste Max.Stor Household Waste Max.Stor Pharmaceuticals Max.Stor Prohibited Waste: Highly Flam./Lpg Regs'72 Subs Percussive/Explosive/Similar Waste Special Wastes (As In '96 Regs) N.O.S Sub'S Control. Radioactive Subs Act'60 Waste N.O.S.	A14NW (E)	592	3	274450 195550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
375	Registered Waste Transfer Sites Licence Holder: West Glamorgan Health Authority Licence Reference: NBWD 3 Site Location: Neath General Hospital, Pant Yr Heol, NEATH, West Glamorgan, SA11 2LQ Operator Location: 36 Orchard Street, SWANSEA, West Glamorgan, SA1 5AQ Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 8th July 1994 Preceded By: 12/88 Licence: Superseded By: NBWD 3 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Clinical Wastes Food Waste Gen.Hosp'Waste/Bottle/Aerosol Max.Stor Pharmaceuticals Radioactive Cont.Glassware/Syringe/Etc Sharps Prohibited Waste: Highly Flam./Lpg Regs'72 Subs Percussive/Explosive/Similar Waste Special Wastes N.O.S. Sub'S Control. Radioactive Subs Act'60 Waste N.O.S.	A14NW (E)	592	3	274450 195550
376	Registered Waste Transfer Sites Licence Holder: Briton Ferry (Shipping Services) Ltd Licence Reference: EAWML34183 Site Location: Giants Wharf, Briton Ferry, NEATH, West Glamorgan, SA11 2PL Operator Location: Giants Wharf, Briton Ferry, NEATH, West Glamorgan, SA11 2PL Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 30th January 2001 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Amber List Substances (Annexes II/III 259/93/Eec) And Inert Substances Green List Substances (Annexes II/III 259/93/Eec) Maximum Waste Permitted By Licence Scrap Metal Special Waste (As In Epa 1990:S62 Of 1996 Regs) Prohibited Waste: Clinical Wastes Household/Commercial/Industrial Waste At Temps > 80 C Liquid/Slurry/Sludge Wastes / Thixotropic Substances Material With Any Haz.Code (H1, H2, H3a,H3b) Material With Haz.Code H 9 - Infectious Other Waste / Waste Not Otherwise Specified Readily Degradable Household/Commercial/Industrial Waste	A7NE (SW)	744	3	273350 194750
377	Registered Waste Transfer Sites Licence Holder: South Wales Wharfage Licence Reference: NBWD 2 Site Location: Ironworks Wharf, Briton Ferry, Neath, West Glamorgan Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer - River Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Bulk Industrial Waste	A3NW (S)	1000	3	273500 194400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
378	Registered Waste Treatment or Disposal Sites Licence Holder: West Glamorgan Area Health Authority Licence Reference: 12/88 Site Location: Adj Outpatient Dept, Main Hospital Site, Neath, West Glamorgan Operator Location: 36 Orchard Street, SWANSEA, West Glamorgan, SA1 5AQ Authority: Environment Agency Wales, South West Area Site Category: Incineration Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st June 1988 Preceded By: Not Given Licence: Superseded By: NBWD 3 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Hospital Wastes Pathology Wastes Suitable For Inc'N Sharps (Med./Surg./Vet) Soiled Surgical Dress./Swaps/Cont.Wast Solid Medicines & Injectables Prohibited Waste: Broken Thermometers Contain. Mercury Pharmaceutical Aerosols	A14NW (E)	592	3	274450 195550
379	Registered Waste Treatment or Disposal Sites Licence Holder: Neath Port Talbot Waste Management Co Licence Reference: SWW 172L Site Location: Giants Wharf M.R.F., Briton Ferry, NEATH, West Glamorgan, SA11 2LN Operator Location: Giants Grave Road, Briton Ferry, NEATH, West Glamorgan, SA11 2LN Authority: Environment Agency Wales, South West Area Site Category: Recycling / Reclamation Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 29th May 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Household Waste (S75 Epa'90) Max.Waste Permitted By Licence Prohibited Waste: Liquid Wastes Sludge Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S. Waste With Haz.Code In H1 To H14 Wastes Containing Liquids	A8NW (SW)	627	3	273540 194780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A13SW (E)	0	1	273812 195418
	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	A13SW (E)	0	1	273812 195418
	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 (S)	0	1	273805 195383
	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	A13NW (NW)	65	1	273766 195525
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 2.2 - 3.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	281	1	273500 195500
	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	A8NW (S)	458	1	273733 194906
	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	A14SW (E)	530	1	274371 195279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	544	1	274403 195352
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (S)	549	1	273654 194827
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	629	1	274117 194818
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	699	1	274297 196000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (S)	836	1	273760 194526
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SE (E)	852	1	274695 195244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (S)	862	1	273765 194500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	862	1	273812 194500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	865	1	273701 194500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	869	1	273894 194500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (S)	892	1	273539 194502
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	956	1	274208 194500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: 3.0 - 6.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SW (NW)	964	1	273000 196000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (SW)	976	1	273150 194610
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A3NW (S)	994	1	273771 194368
380	BGS Recorded Mineral Sites Site Name: Giant'S Grave Location: Briton Ferry, Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156436 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	478	1	273354 195127
381	BGS Recorded Mineral Sites Site Name: Giant'S Grave Location: Briton Ferry, Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156437 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	515	1	273467 194948
382	BGS Recorded Mineral Sites Site Name: Giants Wharf Location: Briton Ferry, Neath, West Glamorgan, Sa11 2lp Source: British Geological Survey, National Geoscience Information Service Reference: 10866 Type: Wharf Status: Dormant Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	692	1	273450 194750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
383	BGS Recorded Mineral Sites Site Name: Sand Wharf Location: Briton Ferry, Neath, West Glamorgan, Sa11 2jr Source: British Geological Survey, National Geoscience Information Service Reference: 10869 Type: Wharf Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	734	1	273200 194900
384	BGS Recorded Mineral Sites Site Name: Giant'S Arms Location: Briton Ferry, Port Talbot, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 156438 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	805	1	273505 194603
385	BGS Recorded Mineral Sites Site Name: Pen-Rhiw-Tyn Location: Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 154429 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	831	1	274562 195901
386	BGS Recorded Mineral Sites Site Name: Garth-Mor Location: Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 154446 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	833	1	274696 195529
387	BGS Recorded Mineral Sites Site Name: Park Terrace Location: Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 154428 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	845	1	274471 196036
388	BGS Recorded Mineral Sites Site Name: Pont Y Lady Clay Pit Location: Neath, Neath, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 154126 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Tidal Flat Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	968	1	274216 196367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273750, 195230 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 78.80 mg/kg Concentration: Cadmium Measured 3.10 mg/kg Concentration: Chromium Measured 68.40 mg/kg Concentration: Lead Measured 146.80 mg/kg Concentration: Nickel Measured 39.00 mg/kg Concentration:	A13SW (S)	134	1	273750 195230
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273760, 195770 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 43.80 mg/kg Concentration: Cadmium Measured 5.10 mg/kg Concentration: Chromium Measured 60.00 mg/kg Concentration: Lead Measured 93.60 mg/kg Concentration: Nickel Measured 71.60 mg/kg Concentration:	A18SW (N)	300	1	273760 195770
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274230, 195250 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 23.50 mg/kg Concentration: Cadmium Measured 2.60 mg/kg Concentration: Chromium Measured 80.20 mg/kg Concentration: Lead Measured 596.20 mg/kg Concentration: Nickel Measured 45.30 mg/kg Concentration:	A14SW (E)	411	1	274230 195250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273300, 195270 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 31.60 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 113.00 mg/kg Concentration: Lead Measured 183.80 mg/kg Concentration: Nickel Measured 59.60 mg/kg Concentration:	A12SE (W)	477	1	273300 195270
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274250, 195740 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 84.60 mg/kg Concentration: Cadmium Measured 2.00 mg/kg Concentration: Chromium Measured 87.50 mg/kg Concentration: Lead Measured 784.20 mg/kg Concentration: Nickel Measured 115.50 mg/kg Concentration:	A14NW (NE)	484	1	274250 195740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273750, 194760 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 50.80 mg/kg Concentration: Cadmium Measured 3.50 mg/kg Concentration: Chromium Measured 102.80 mg/kg Concentration: Lead Measured 338.00 mg/kg Concentration: Nickel Measured 43.40 mg/kg Concentration:	A8NW (S)	603	1	273750 194760
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273200, 195670 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 40.30 mg/kg Concentration: Cadmium Measured 2.00 mg/kg Concentration: Chromium Measured 113.70 mg/kg Concentration: Lead Measured 387.00 mg/kg Concentration: Nickel Measured 49.20 mg/kg Concentration:	A12NE (W)	623	1	273200 195670
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273310, 194850 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 79.30 mg/kg Concentration: Cadmium Measured 3.20 mg/kg Concentration: Chromium Measured 63.50 mg/kg Concentration: Lead Measured 148.90 mg/kg Concentration: Nickel Measured 37.80 mg/kg Concentration:	A7NE (SW)	689	1	273310 194850
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274190, 194780 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 27.90 mg/kg Concentration: Cadmium Measured 1.10 mg/kg Concentration: Chromium Measured 95.60 mg/kg Concentration: Lead Measured 387.70 mg/kg Concentration: Nickel Measured 53.70 mg/kg Concentration:	A9NW (SE)	697	1	274190 194780
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274150, 196140 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 25.80 mg/kg Concentration: Cadmium Measured 0.90 mg/kg Concentration: Chromium Measured 77.50 mg/kg Concentration: Lead Measured 146.60 mg/kg Concentration: Nickel Measured 51.70 mg/kg Concentration:	A18NE (NE)	734	1	274150 196140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273750, 196240 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 165.50 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 89.50 mg/kg Concentration: Lead Measured 280.50 mg/kg Concentration: Nickel Measured 71.50 mg/kg Concentration:	A18NW (N)	767	1	273750 196240
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274750, 195250 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 93.00 mg/kg Concentration: Cadmium Measured 5.70 mg/kg Concentration: Chromium Measured 84.90 mg/kg Concentration: Lead Measured 1072.30 mg/kg Concentration: Nickel Measured 96.50 mg/kg Concentration:	A14SE (E)	904	1	274750 195250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274760, 195770 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 34.50 mg/kg Concentration: Cadmium Measured 0.70 mg/kg Concentration: Chromium Measured 56.40 mg/kg Concentration: Lead Measured 99.70 mg/kg Concentration: Nickel Measured 28.00 mg/kg Concentration:	A19SE (E)	950	1	274760 195770
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 273260, 196250 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 41.60 mg/kg Concentration: Cadmium Measured 1.80 mg/kg Concentration: Chromium Measured 113.50 mg/kg Concentration: Lead Measured 220.60 mg/kg Concentration: Nickel Measured 73.60 mg/kg Concentration:	A17NE (NW)	950	1	273260 196250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 272800, 195240 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured 28.10 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 100.00 mg/kg Concentration: Lead Measured 138.10 mg/kg Concentration: Nickel Measured 50.00 mg/kg Concentration:	A11SE (W)	975	1	272800 195240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Swansea Count Id: 368 Arsenic Minimum Concentration: 8.00 mg/kg Arsenic Average Concentration: 79.00 mg/kg Arsenic Maximum Concentration: 2161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 2.90 mg/kg Cadmium Maximum Concentration: 61.90 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 72.00 mg/kg Chromium Maximum Concentration: 562.00 mg/kg Lead Minimum Concentration: 23.00 mg/kg Lead Average Concentration: 413.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 8.00 mg/kg Nickel Average Concentration: 52.00 mg/kg Nickel Maximum Concentration: 384.00 mg/kg	A13SW (E)	0	1	273812 195418
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (E)	0	7	273812 195418
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (E)	0	-	273812 195418
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	67	1	273758 195524
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	67	1	273758 195524
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	37	1	273842 195343
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	217	1	273548 195409
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	37	1	273842 195343
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	67	1	273758 195524
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	37	1	273842 195343
	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	A13SW (E)	0	1	273812 195418
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	273812 195418

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
389	Contemporary Trade Directory Entries Name: Camps Transport Location: 33, Bryn Teg, Neath, SA11 2YH Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	20	-	273746 195373
389	Contemporary Trade Directory Entries Name: J & J Skip Hire Location: 33, Bryn Teg, Neath, West Glamorgan, SA11 2YH Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	20	-	273745 195374
390	Contemporary Trade Directory Entries Name: Kingfisher Mobile Tyre Services Location: 53, Olive Branch Crescent, Neath, West Glamorgan, SA11 2UH Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	66	-	273872 195324
390	Contemporary Trade Directory Entries Name: Kingfisher Mobile Tyre Services Location: 53, Olive Branch Crescent, Neath, SA11 2UH Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	67	-	273872 195324
391	Contemporary Trade Directory Entries Name: West Coastal White Line Co Ltd Location: Station Road, Briton Ferry, Neath, West Glamorgan, SA11 2SU Classification: Road Marking & Surfacing Equipment & Material Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	385	-	274226 195305
391	Contemporary Trade Directory Entries Name: A & S Tyre Services Location: Station Road, Briton Ferry, Neath, West Glamorgan, SA11 2SU Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	385	-	274226 195305
391	Contemporary Trade Directory Entries Name: A & S Tyres Ltd Location: Unit 1-5 Station Yard, Station Road, Briton Ferry, Neath, West Glamorgan, SA11 2SU Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14SW (E)	404	-	274234 195275
392	Contemporary Trade Directory Entries Name: Lafarge Readymix Location: Old Iron Works, Briton Ferry, Neath, West Glamorgan, SA11 2LD Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	415	-	274007 195003
393	Contemporary Trade Directory Entries Name: Tarmac Location: Briton Ferry, Neath, West Glamorgan, SA11 2HZ Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	421	-	274252 195614
394	Contemporary Trade Directory Entries Name: Double P Motors Ltd Location: Station Road, Briton Ferry, Neath, SA11 2SU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	425	-	274239 195235
394	Contemporary Trade Directory Entries Name: Station Sprayers Location: Station Road, Briton Ferry, Neath, West Glamorgan, SA11 2SU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	428	-	274240 195229

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
395	Contemporary Trade Directory Entries Name: Briton Ferry Salvage Ltd Location: 61, Giants Grave Road, Neath, West Glamorgan, SA11 2LN Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	441	-	273688 194930
396	Contemporary Trade Directory Entries Name: Breeding Group Location: Old Iron Works, Church Road, Neath, West Glamorgan, SA11 2LN Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	455	-	273749 194908
397	Contemporary Trade Directory Entries Name: Stillman & Sons Location: 82, Giants Grave Road, Neath, West Glamorgan, SA11 2LN Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	515	-	273649 194863
398	Contemporary Trade Directory Entries Name: Neath Port Talbot Waste Management Co Ltd Location: Giants Grave Road, Neath, West Glamorgan, SA11 2LN Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	525	-	273573 194877
399	Contemporary Trade Directory Entries Name: V I P Bin Cleaning Location: 32, Giants Grave Road, Neath, West Glamorgan, SA11 2LS Classification: Hygiene & Cleansing Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	540	-	273796 194822
399	Contemporary Trade Directory Entries Name: Clean & Dry Location: 32, Giants Grave Road, Neath, West Glamorgan, SA11 2LS Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	540	-	273796 194822
400	Contemporary Trade Directory Entries Name: Lodge Garage Location: The Yard, Shelone Road, Neath, West Glamorgan, SA11 2NS Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	587	-	274195 194915
401	Contemporary Trade Directory Entries Name: Neath General Hospital Location: Penrhiwtyn, Neath, West Glamorgan, SA11 2LQ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	656	-	274445 195754
402	Contemporary Trade Directory Entries Name: Car Tec Location: 1, Ormond Street, Neath, West Glamorgan, SA11 2TG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	704	-	274461 195050
403	Contemporary Trade Directory Entries Name: R M C Aggregates South Wales Ltd Location: Briton Ferry, Neath, West Glamorgan, SA11 2LP Classification: Sand, Gravel & Other Aggregates Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SW (SW)	736	-	273481 194687
404	Contemporary Trade Directory Entries Name: Sims Metal Management Location: Giants Wharf, Briton Ferry, Neath, West Glamorgan, SA11 2LP Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	758	-	273312 194760
404	Contemporary Trade Directory Entries Name: Western Precast Location: Unit B, Giants Wharf, Briton Ferry, Neath, West Glamorgan, SA11 2LP Classification: Concrete Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	758	-	273312 194760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
405	Contemporary Trade Directory Entries Name: Alter Kennys Location: Neath Road, Briton Ferry, Neath, West Glamorgan, SA11 2AX Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	788	-	274356 194786
406	Contemporary Trade Directory Entries Name: Neath Road Filling Station Location: Neath Rd, Briton Ferry, Neath, West Glamorgan, SA11 2AX Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	830	-	274333 194714
407	Contemporary Trade Directory Entries Name: Autocare Neath Location: Neath Road, Briton Ferry, Neath, West Glamorgan, SA11 2AX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	869	-	274391 194710
407	Contemporary Trade Directory Entries Name: Neath Car Sales Ltd Location: Neath Road, Briton Ferry, Neath, West Glamorgan, SA11 2AX Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	869	-	274391 194710
408	Contemporary Trade Directory Entries Name: Crown Food Uk Location: Milland Road Industrial Estate, Neath, West Glamorgan, SA11 1NJ Classification: Can Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	992	-	274339 196331
409	Fuel Station Entries Name: Neath Road Filling Station Location: Neath Road, Briton Ferry, NEATH, West Glamorgan, SA11 2AX Brand: Total Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A9SW (SE)	869	-	274391 194710
410	Points of Interest - Commercial Services Name: Camps Transport Location: 33 Bryn Teg, Neath, SA11 2YH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	20	8	273746 195373
411	Points of Interest - Commercial Services Name: Station Sprayers Location: Station House, Station Road, Briton Ferry, Neath, SA11 2SU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	417	8	274264 195319
412	Points of Interest - Commercial Services Name: Double P Motors Ltd Location: Station Road, Briton Ferry, Neath, SA11 2SU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	428	8	274240 195228
412	Points of Interest - Commercial Services Name: Station Sprayers Location: Station Road, Briton Ferry, Neath, SA11 2SU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	428	8	274240 195228
413	Points of Interest - Commercial Services Name: Briton Ferry Salvage Location: 61 Giants Grave Road, Neath, SA11 2LN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A8NW (S)	441	8	273688 194930
413	Points of Interest - Commercial Services Name: Briton Ferry Salvage Ltd Location: 61 Giants Grave Road, Neath, SA11 2LN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A8NW (S)	442	8	273688 194929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
413	Points of Interest - Commercial Services Name: Stillman & Sons Location: 82 Giants Grave Road, Neath, SA11 2LN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A8NW (S)	515	8	273649 194863
413	Points of Interest - Commercial Services Name: Stillman & Sons Location: 82 Giants Grave Road, Neath, SA11 2LN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A8NW (S)	515	8	273649 194863
414	Points of Interest - Commercial Services Name: I M O Car Wash Location: 117 Pant yr Heol, Neath, SA11 2HB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (NE)	462	8	274279 195653
415	Points of Interest - Commercial Services Name: Car Tec Location: 1 Ormond Street, Neath, SA11 2TG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	704	8	274461 195050
415	Points of Interest - Commercial Services Name: Car Tec Location: 1 Ormond Street, Neath, SA11 2TG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	704	8	274461 195050
416	Points of Interest - Commercial Services Name: Briton Ferry Shipping Services Location: Giants Wharf, Briton Ferry, Neath, SA11 2LP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SW (SW)	737	8	273480 194686
417	Points of Interest - Commercial Services Name: Neath Car Sales Ltd Location: Neath Road, Briton Ferry, Neath, SA11 2AX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	881	8	274362 194672
417	Points of Interest - Commercial Services Name: Autocare Neath Location: Neath Road, Briton Ferry, Neath, SA11 2AX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	892	8	274383 194675
418	Points of Interest - Education and Health Name: Neath General Hospital Location: Penrhiwtyn, Neath, SA11 2LQ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (NE)	656	8	274445 195754
419	Points of Interest - Manufacturing and Production Name: Tank Location: SA11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	274	8	273491 195372
420	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	411	8	274248 195290
421	Points of Interest - Manufacturing and Production Name: Briton / Neath - Landfill Gas (DECC) Location: Neath Landfill, Giant Grave Road, West Glamorgan, SA10 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	464	8	273300 195400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
422	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SE (SW)	494	8	273340 195119
423	Points of Interest - Manufacturing and Production Name: Tank Location: SA10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	507	8	273850 195984
424	Points of Interest - Manufacturing and Production Name: Tanks Location: SA11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	605	8	274421 195687
425	Points of Interest - Manufacturing and Production Name: Works Location: SA11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	665	8	274263 194869
425	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	667	8	274268 194870
426	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: SA11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A19SW (NE)	840	8	274487 196011
427	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	913	8	273460 194505
428	Points of Interest - Manufacturing and Production Name: Tank Location: SA11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	948	8	274796 195257
429	Points of Interest - Public Infrastructure Name: J & J Skip Hire Location: 33 Bryn Teg, Neath, SA11 2YH Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13SW (SW)	20	8	273745 195374
429	Points of Interest - Public Infrastructure Name: J & J Skip Hire Location: 33 Bryn Teg, Neath, SA11 2YH Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13SW (SW)	20	8	273745 195374
430	Points of Interest - Public Infrastructure Name: Sluice Location: SA11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	331	8	274141 195630
431	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	380	8	273767 194982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
431	Points of Interest - Public Infrastructure Name: Cemetery Location: SA11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	380	8	273767 194982
432	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SA10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	389	8	273625 195817
433	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SA10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	395	8	273373 195450
434	Points of Interest - Public Infrastructure Name: Chapel of Rest Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	419	8	274285 195417
435	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SA10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	532	8	273355 195754
436	Points of Interest - Public Infrastructure Name: Briton Ferry Rail Station Location: Rockingham Terrace (Teras Rockingham), SA11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8NE (SE)	672	8	274139 194781
436	Points of Interest - Public Infrastructure Name: Briton Ferry Station Location: Rockingham Terrace (Teras Rockingham), SA11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8NE (SE)	672	8	274139 194781
437	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SA10 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	687	8	273470 196072
438	Points of Interest - Public Infrastructure Name: Mortuary Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	702	8	274456 195826
439	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	931	8	274679 194978
439	Points of Interest - Public Infrastructure Name: Ynysmaerdy Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	953	8	274729 195037
439	Points of Interest - Public Infrastructure Name: Ynysmaerdy Cemetery Location: SA11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	953	8	274729 195037

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
440	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	A9NW (SE)	816	8	274460 194852
440	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Neath Road, SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9NE (SE)	836	8	274496 194864
441	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Ynysmaerdy Road, SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9NE (SE)	863	8	274573 194925
442	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	A8SE (S)	969	8	273966 194410
442	Points of Interest - Recreational and Environmental Name: Playground Location: Jersey Terrace, SA11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	970	8	273968 194409

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
443	Ancient Woodland Name: Not Supplied Reference: 23142 Area(m ²): 41356.7 Type: Restored Ancient Woodland Site	A8SE (S)	715	2	273841 194650
444	Ancient Woodland Name: Not Supplied Reference: 18274 Area(m ²): 8554.76 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	844	2	274410 194759
445	Ancient Woodland Name: Not Supplied Reference: 11350 Area(m ²): 15409.06 Type: Restored Ancient Woodland Site	A8SW (S)	859	2	273735 194504
446	Ancient Woodland Name: Not Supplied Reference: 11351 Area(m ²): 143855.64 Type: Restored Ancient Woodland Site	A9SW (SE)	898	2	274406 194685
447	Ancient Woodland Name: Not Supplied Reference: 41929 Area(m ²): 11184.43 Type: Plantation on Ancient Woodland	A7SE (SW)	989	2	273172 194576

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	January 2015 March 2015	Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 August 2017	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Swansea Bay Port Health Authority Neath Port Talbot County Borough Council - Environmental Health Department City and County of Swansea - Environmental Health Department	April 2014 August 2012 June 2014	Annually Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 June 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Swansea Bay Port Health Authority City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	April 2014 June 2014 March 2014	Annually Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 January 2015	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register Environment Agency Wales - South West Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable

Agency & Hydrological	Version	Update Cycle
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Natural Resources Wales	November 2016	As notified
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	November 2017	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	November 2017	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2017	Quarterly
Flood Water Storage Areas Natural Resources Wales	November 2017	Quarterly
Flood Defences Natural Resources Wales	November 2017	Quarterly
OS Water Network Lines Ordnance Survey	October 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water Suitability Natural Resources Wales	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South West Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	October 2017 October 2017	Quarterly Quarterly
Local Authority Landfill Coverage City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites City and County of Swansea - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 September 2003	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	January 2016 October 2015	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents City and County of Swansea - Planning Department Neath Port Talbot County Borough Council - Planning Department	January 2016 October 2015	Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

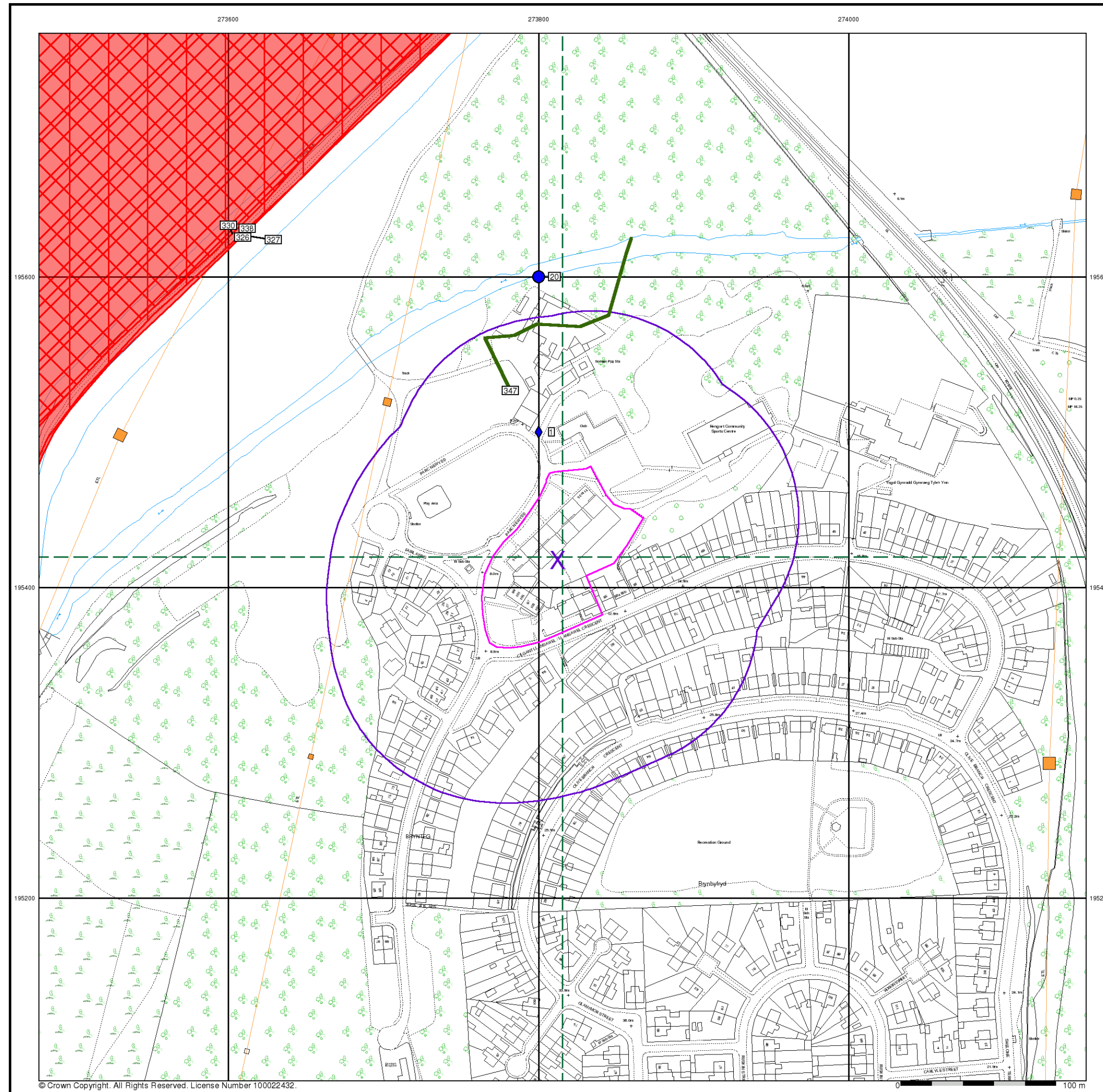
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2017	Quarterly
Points of Interest - Education and Health PointX	December 2017	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2017	Quarterly
Points of Interest - Public Infrastructure PointX	December 2017	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2017	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2017	Bi-Annually
Areas of Adopted Green Belt City and County of Swansea	November 2017	As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2017	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves City and County of Swansea Neath Port Talbot County Borough Council	August 2017 August 2017	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2017	Bi-Annually
National Nature Reserves Natural Resources Wales	August 2017	Bi-Annually
National Parks Natural Resources Wales	August 2017	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2017	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	August 2017	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2017	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2017	Bi-Annually

A selection of organisations who provide data within this report

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

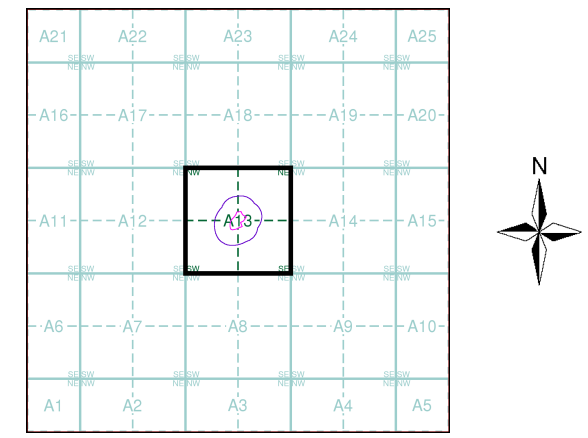
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
5	Swansea Bay Port Health Authority Kings Dock Lock, Swansea, SA1 8RU	Telephone: 01792 653523 Fax: 01792 641718 Email: swansea-bay@cieh.org.uk
6	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	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
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Neath Port Talbot County Borough Council Civic Centre, Port Talbot, West Glamorgan, SA13 1PJ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.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.



- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
 - BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Plot Buffer (m): 100

Site Details
Site at 273830, 195420

272500 273000 273500 274000 274500 275000



General

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

Agency and Hydrological

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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

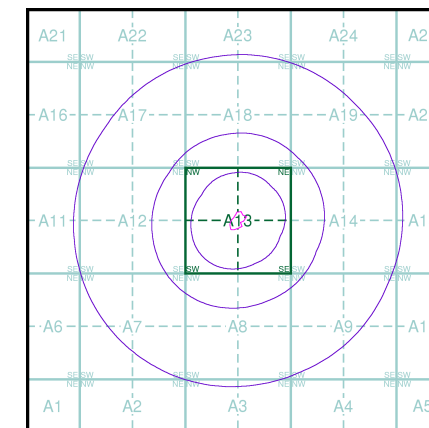
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A



Order Details

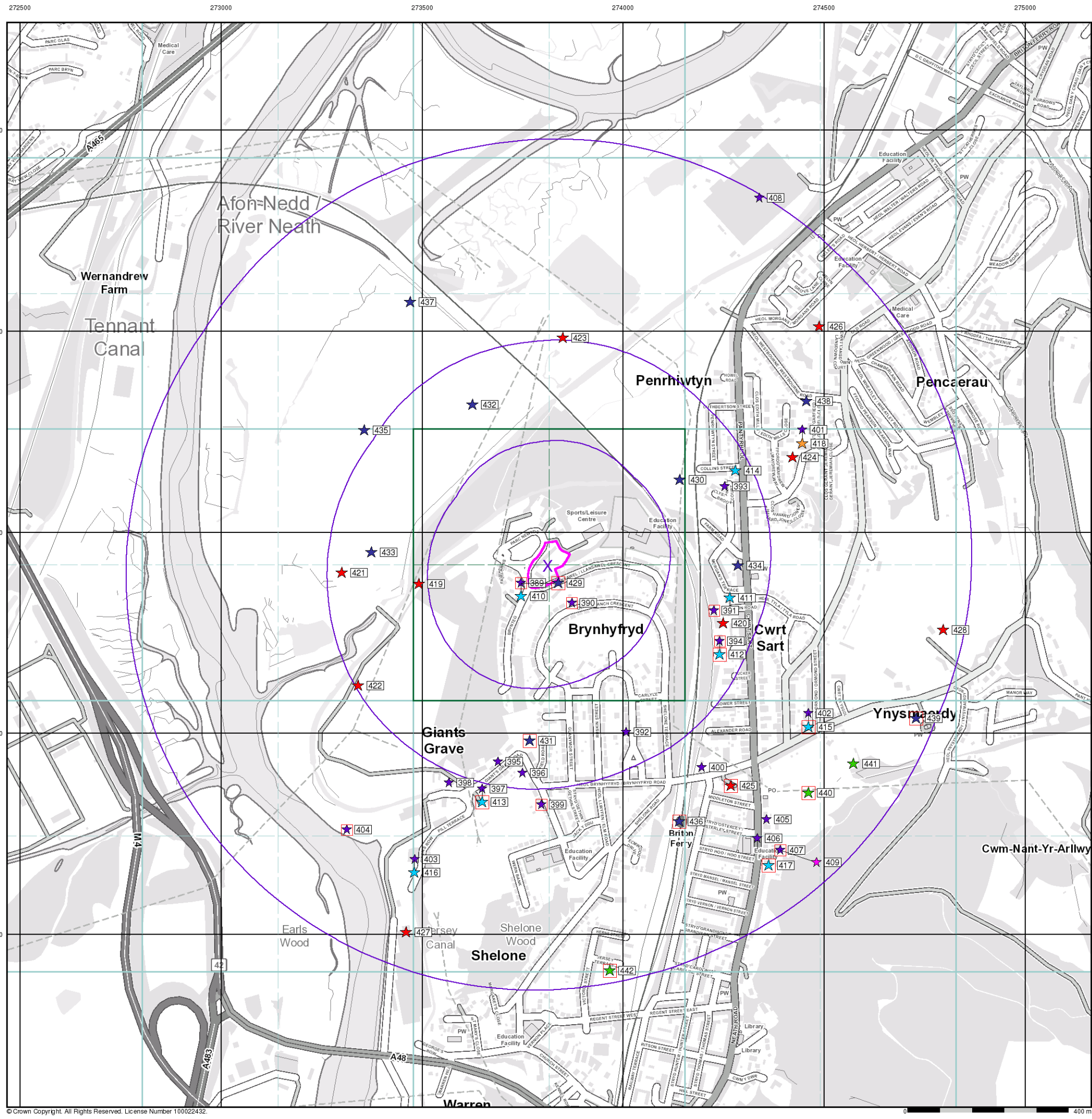
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420



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



Industrial Land Use Map

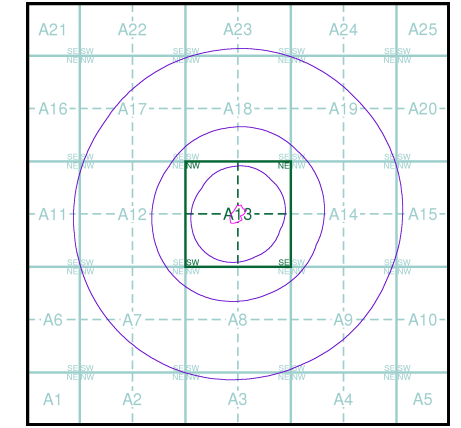
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

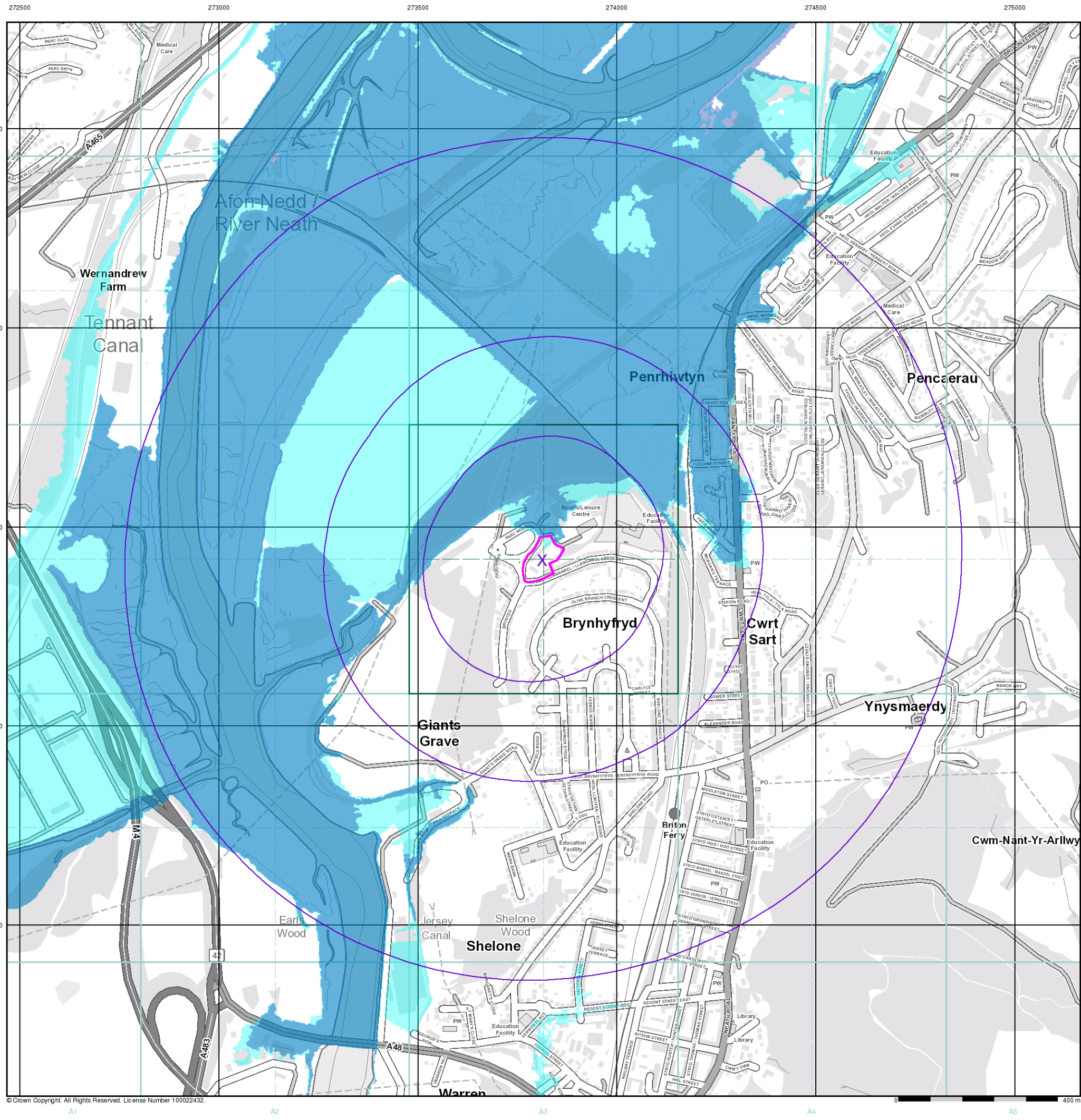
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420



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



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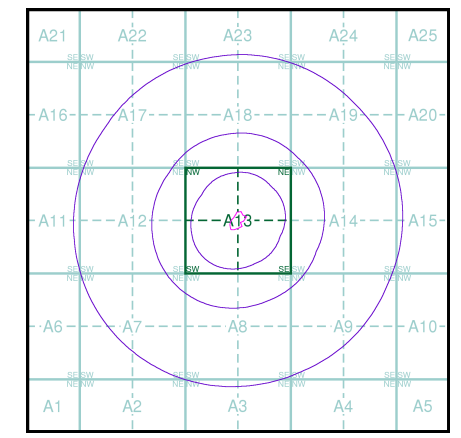
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420



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General

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

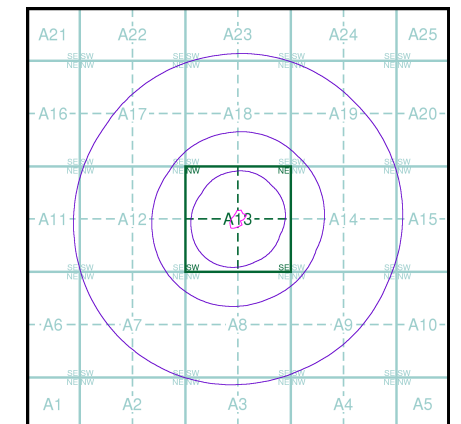
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420



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

272500 273000 273500 274000 274500 275000



General

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

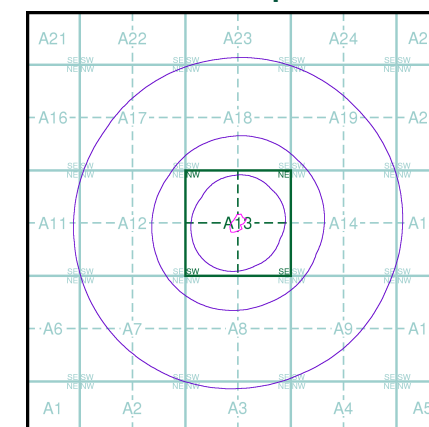
OS Water Network Data

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

Contours (height in meters)

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

OS Water Network Map - Slice A



Order Details

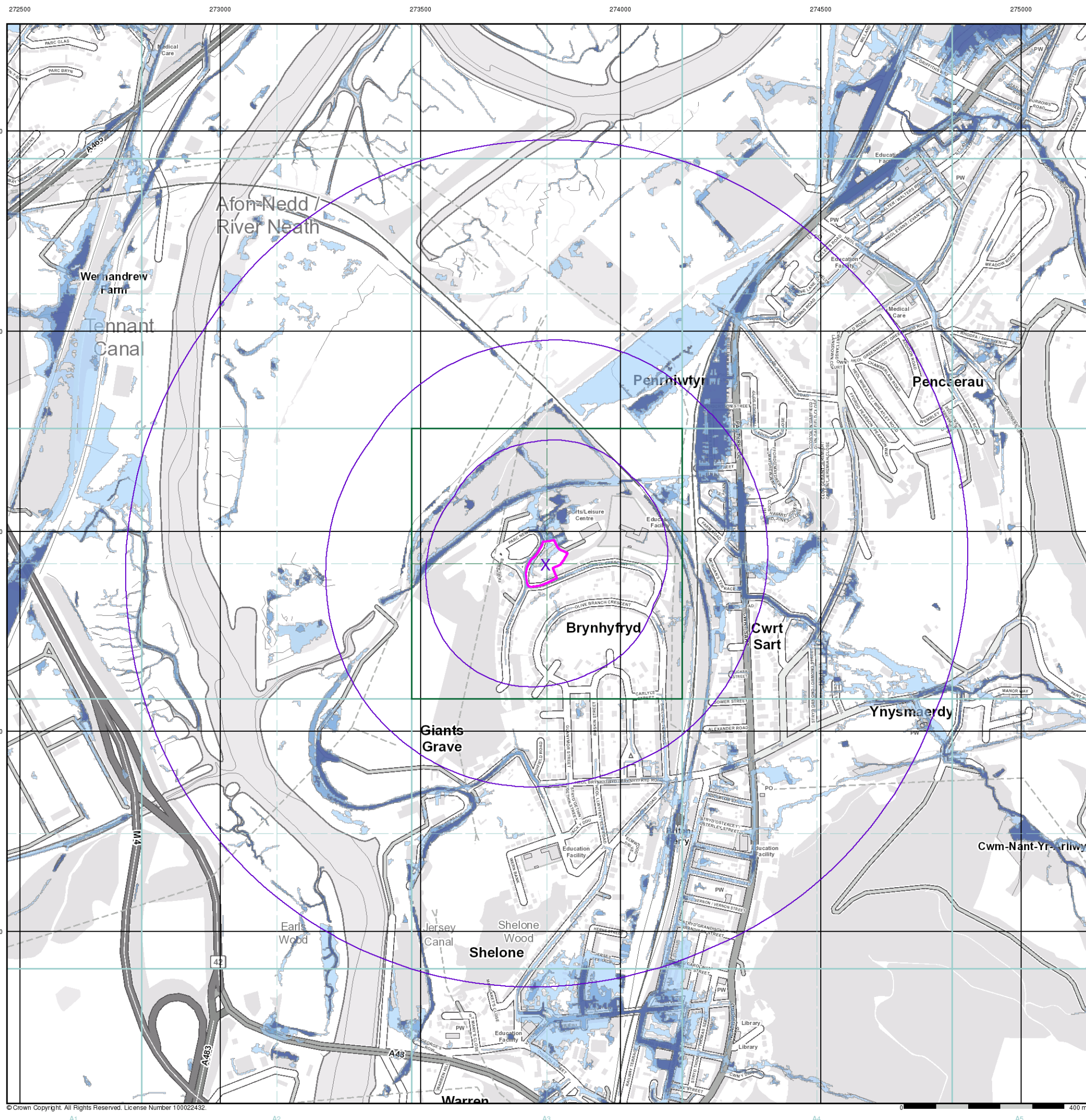
Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

Landmark
INFORMATION GROUP

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



General

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

Risk of Flooding from Surface Water

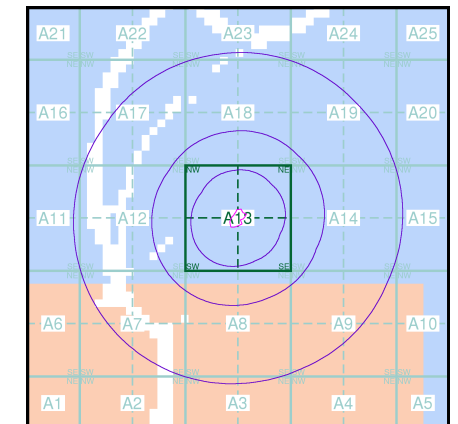
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



Order Details

Order Number: 152214525_1_1
Customer Ref: 14396-45
National Grid Reference: 273810, 195420
Slice: A
Site Area (Ha): 0.72
Search Buffer (m): 1000

Site Details

Site at 273830, 195420

Landmark
INFORMATION GROUP

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

ANNEX B
Coal Authority Mining
Report



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

SITE AT 273830, 195420
SWANSEA



Date of enquiry: 09 January 2018
Date enquiry received: 09 January 2018
Issue date: 09 January 2018

Our reference: 51001734653001
Your reference: 152214525_2|



CON29M Non-Residential Mining Report

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

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

SITE AT 273830, 195420, SWANSEA

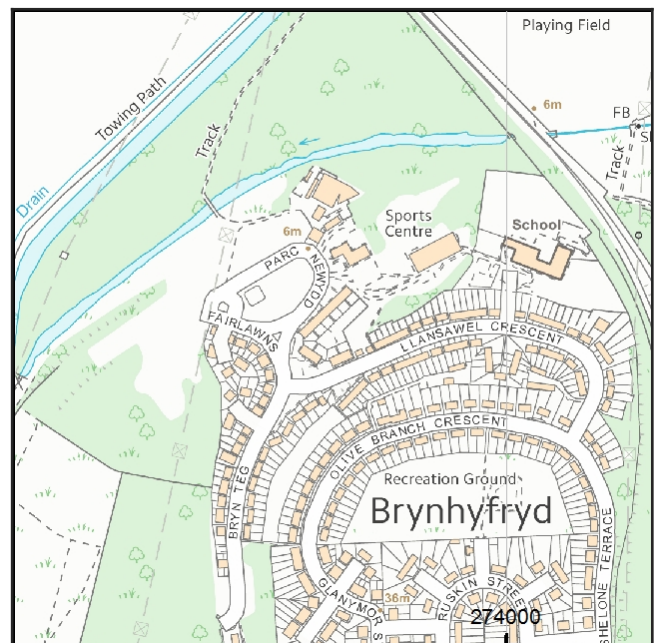
How to contact us

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NG18 4RG

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



Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 1 seam of coal at 80m depth, and last worked in 1910.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

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

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

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

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

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

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

4. Mine entries

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

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

5. Coal mining geology

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

6. Past opencast coal mining

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

7. Present opencast coal mining

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

8. Future opencast coal mining

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

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

9. Coal mining subsidence

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

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

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

10. Mine gas

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

11. Hazards related to coal mining

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

12. Withdrawal of support

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

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

13. Working facilities order

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

14. Payments to owners of former copyhold land

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

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

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

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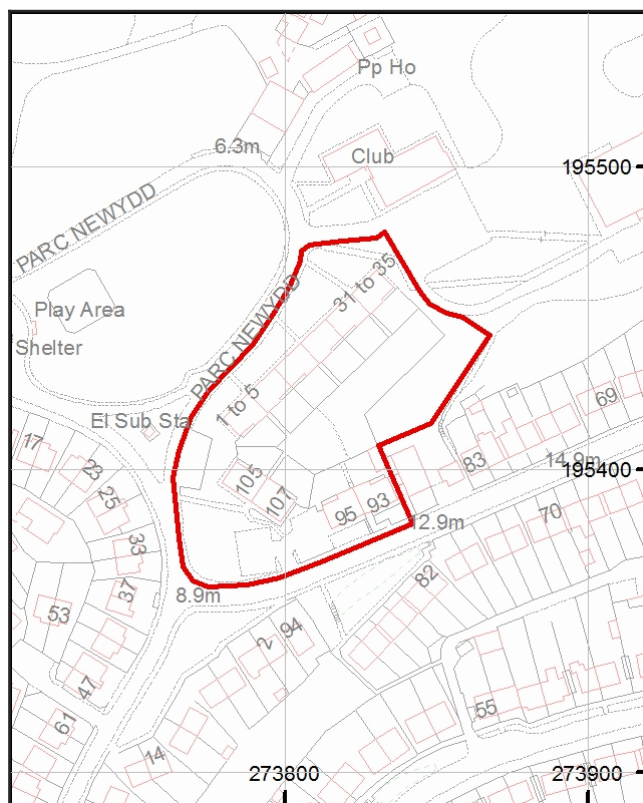
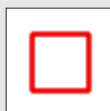
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



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 /thecoalauthority

 /coalauthority



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ANNEX C
Risk Assessment Definitions

The contaminated land regime is set out in Part IIA 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 IIA was introduced to achieve two aims:

- (1) The identification of contaminated land
- (2) The remediation of contaminated land that poses an unacceptable risk to human health and/or the environment

Under Part IIA 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."

For land to be classified as 'Contaminated Land' there must be a '**pollutant linkage**'. A pollutant linkage requires three essential elements:

- (1) A **CONTAMINANT** (hazard) - a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters
- (2) A **RECEPTOR** (target) - something which could be adversely affected by a contaminant
- (3) A **PATHWAY** - a route or means which either allows the contaminant to cause significant harm to that receptor, or that there is a significant possibility of such harm being caused to the receptor, or that pollution of controlled waters is being or likely to be caused.

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'.

A 'Hazard' is defined as '*a property or situation that in particular circumstances could lead to harm*'.

The classification of consequences and probability and determining the risk category are defined in the following sections.

Classification of Consequence

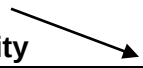
Table A Classification of Consequence	
Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular 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
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	• 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
Medium	• There is a complete pollution linkage which means that it is probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low	• 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
Negligible	• 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	High	High	Medium / Low	Near zero
	Medium	High	Medium	Low	Near zero
	Low	High / medium	Medium / Low	Low	Near zero
	Negligible	High / medium / Low	Medium / Low	Low	Near zero

High Risk

There is a high probability that severe harm could risk a receptor, or there is evidence that a receptor is being 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



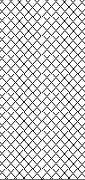
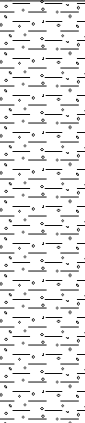
Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

Trial Pit No:
TP01
Sheet 1 of 1

Project Name: Britton Ferry	Project No: 14396	Co-ords: - Level:	Date: 23/01/2018
-----------------------------	-------------------	----------------------	------------------

Location: Britton Ferry	Dimensions: Depth 2.00	Scale: 1:25 Logged:
-------------------------	---------------------------	------------------------

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.60			MADE GROUND: Soft, light brown, sandy, very gravelly CLAY with occasional cobbles	
							Firm to stiff, yellow-brown to grey, slightly sandy, slightly gravelly SILT/CLAY with occasional cobble of rounded sandstone	1
				2.00			End of Pit at 2.000m	2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



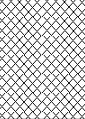
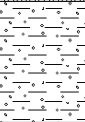
Tel: 02920 735354
info@terrafirmawales.co.uk
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Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
CF23 7HA

Trial Pit No:
TP02
Sheet 1 of 1

Project Name: Britton Ferry	Project No: 14396	Co-ords: - Level:	Date: 23/01/2018
-----------------------------	-------------------	----------------------	------------------

Location: Britton Ferry	Dimensions: Depth 0.80	Scale: 1:25 Logged:
-------------------------	---------------------------	------------------------

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			MADE GROUND: Very soft, brown, sandy gravelly CLAY with occasional cobble. Includes brick fragments.	
				0.80			Firm to stiff, yellow-brown to grey, slightly sandy, slightly gravelly SILT/CLAY with occasional rounded cobble of sandstone	
							End of Pit at 0.800m	1 2 3 4 5

Stability:

Remarks: Surface Water Holding



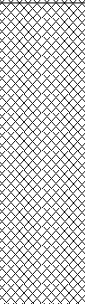
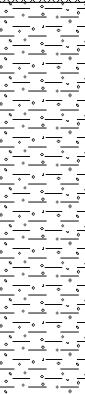
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CF23 7HA

Trial Pit No:
TP03
Sheet 1 of 1

Project Name: Britton Ferry	Project No: 14396	Co-ords: - Level:	Date: 23/01/2018
-----------------------------	-------------------	----------------------	------------------

Location: Britton Ferry	Dimensions: Depth 2.50	Scale: 1:25 Logged:
-------------------------	---------------------------	------------------------

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.20			MADE GROUND: Soft, brown, very gravelly sandy CLAY
				1.20			MADE GROUND: Brown to black, very gravelly sandy CLAY including brick and concrete. Fragment of corrugated asbestos cement encountered at 0.4m.
				2.50			Firm to stiff, yellow-brown to grey, slightly sandy, slightly gravelly SILT/CLAY with occasional gravel
							End of Pit at 2.500m

Stability:

Remarks: Trial Pit Dry



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CF23 7HA

Trial Pit No:

TP04

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/01/2018

Location: Britton Ferry

Dimensions:

Depth
2.10



Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			MADE GROUND: Soft, black, very gravelly CLAY	
				0.55			MADE GROUND: Black, sandy GRAVEL	
							Firm to stiff, yellow-brown to grey, slightly sandy SILT/CLAY with occasional cobble of rounded gravel.	1
				2.10			End of Pit at 2.100m	2
								3
								4
								5

Stability:

Remarks: Minor ingress of water at 0.55m



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Trial Pit No:

TP05

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/01/2018

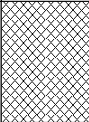
Location: Britton Ferry

Dimensions:

Depth
0.40

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			MADE GROUND: Soft brown, sandy, very gravelly CLAY.	
							End of Pit at 0.400m	
								1
								2
								3
								4
								5

Stability:

Remarks: Hand excavated due to abundant services in area.



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Terra Firma (Wales) Limited
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Pentwyn, Cardiff
CF23 7HA

Trial Pit No:

TP101

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
12/08/2019

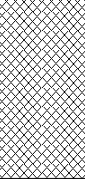
Location: Britton Ferry

Dimensions:

Depth
0.80

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Concrete	
				0.80			MADE GROUND: Black, clayey sandy GRAVEL to COBBLE of brick, concrete, sandstone and slag	
							End of Pit at 0.800m	1
								2
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP102

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
12/08/2019

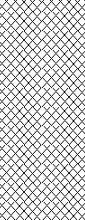
Location: Britton Ferry

Dimensions:

Depth
1.00

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Concrete	
							MADE GROUND: Black, clayey sandy GRAVEL to COBBLE of brick, concrete, sandstone and slag	
				0.95 1.00			Brown, sandy, very slightly gravelly CLAY End of Pit at 1.000m	1
								2
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP103

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
12/08/2019

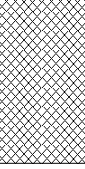
Location: Britton Ferry

Dimensions:

Depth
0.80

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.20			MADE GROUND: Concrete	
				0.75			MADE GROUND: Black, clayey sandy GRAVEL to COBBLE of brick, concrete, sandstone and slag	
							End of Pit at 0.800m	
								1
								2
								3
								4
								5

Stability:

Remarks:



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Trial Pit No:

TP201

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

Location: Britton Ferry

Dimensions:

Depth
0.80

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.15			MADE GROUND: Soft, brown, gravelly sandy SILT/CLAY	
				0.40			MADE GROUND: Black, very sandy GRAVEL including clinker, brick, concrete and sandstone.	
				0.80			Firm to stiff, yellow-brown, to grey, slightly sandy CLAY with occasional gravel of sandstone.	
							End of Pit at 0.800m	
								1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP203

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

Location: Britton Ferry

Dimensions:

Depth
1.00

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			MADE GROUND: Brown, very gravelly sandy SILT/CLAY with occasional fragment of brick and concrete	
				1.00			Firm to stiff, grey, very sandy CLAY including occasional gravel.	
							End of Pit at 1.000m	1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP204

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

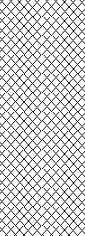
Location: Britton Ferry

Dimensions:

Depth
0.90

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.80			MADE GROUND: Brown, sandy gravelly CLAY including brick, concrete and very occasional plastic. Contains boulders of concrete.	
				0.90			Stiff, grey, slightly sandy CLAY	
							End of Pit at 0.900m	1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP205

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

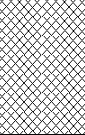
Location: Britton Ferry

Dimensions:

Depth
0.45

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.45			MADE GROUND: Brown, sandy, gravelly SILT/CLAY including sandstone, concrete and brick fragments	
							End of Pit at 0.450m	
								1
								2
								3
								4
								5

Stability:

Remarks: Terminated at 0.45m due to buried cable. Trial Pit Dry.



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Trial Pit No:

TP206

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

Location: Britton Ferry

Dimensions:

Depth
1.00



Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.15			MADE GROUND: Soft, brown, sandy gravelly CLAY	
							MADE GROUND: Red-brown to dark-brown, sandy CLAY including cobbles of brick and concrete.	
				0.50			Firm to stiff, grey to grey-brown, slightly gravelly sandy CLAY	
				1.00			End of Pit at 1.000m	1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP207

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
23/10/2019

Location: Britton Ferry

Dimensions:

Depth
0.80



Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10			CONCRETE	
				0.75 0.80			MADE GROUND: Black, clayey sandy GRAVEL to COBBLE of brick, concrete, sandstone, slag and very occasional tarmac.	
							Stiff, brown to grey, slightly sandy CLAYA	
							End of Pit at 0.800m	
								1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP301

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
28/11/2019

Location: Britton Ferry

Dimensions:

Depth
0.85



Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.22			CONCRETE
				0.82			MADE GROUND: Black, slightly clayey sandy GRAVEL including slag, clinker, brick fragments, concrete and sandstone.
				0.85			Orange-brown to grey, sandy slightly gravelly CLAY
							End of Pit at 0.850m
							1
							2
							3
							4
							5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:

TP303

Sheet 1 of 1

Project Name: Britton Ferry

Project No:
14396

Co-ords: -
Level:

Date:
28/11/2019

Location: Britton Ferry

Dimensions:

Depth
0.80

Scale:
1:25
Logged:

Client:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.22			CONCRETE	
				0.70			MADE GROUND: Black, sandy GRAVEL of slag, clinker, brick fragments and concrete.	
				0.80			Orange-brown to grey, slightly sandy SILT/CLAY with occasional gravel of rounded sandstone. End of Pit at 0.800m	
								1
								2
								3
								4
								5

Stability:

Remarks: Trial Pit Dry



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Trial Pit No:
TP304
Sheet 1 of 1

Project Name: Britton Ferry Project No: 14396 Co-ords: - Level: Date: 28/11/2019

Location: Britton Ferry Dimensions: Depth 0.85 Scale: 1:25 Logged:

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.22			CONCRETE
				0.75			MADE GROUND: Black to dark brown, slightly clayey, sandy GRAVEL of clinker, slag, brick fragments, concrete and trace sandstone.
				0.85			Grey-brown, slightly sandy SILT/CLAY with occasional gravel of rounded sandstone.
							End of Pit at 0.850m
							1
							2
							3
							4
							5

Stability:

Remarks: Trial Pit Dry

ANNEX E
Rotary Probe Drilling Logs



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Borehole No.

RP01

Sheet 1 of 3

Project Name: Britton Ferry	Project No: 14396	Co-ords:	Hole Type RO
Location: Britton Ferry		Level:	Scale 1:50
Client:		Dates: 27/03/2018 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				1.50				SOFT DRILL - TRIAL PIT (DRILLERS DESCRIPTION)	1
				3.00				SANDY CLAY (DRILLERS DESCRIPTION)	2
				4.20				GRAVEL (DRILLERS DESCRIPTION)	3
				5.00				SANDY CLAY (DRILLERS DESCRIPTION)	4
								SANDSTONE (DRILLERS DESCRIPTION)	5
									6
									7
									8
									9
									10

Remarks:



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Borehole No.

RP01

Sheet 2 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

Level:

Scale
1:50

Client:

Dates: 27/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				11.00				SANDSTONE (DRILLERS DESCRIPTION)	
								MUDSTONE (DRILLERS DESCRIPTION)	11
									12
									13
									14
									15
				15.70				SANDSTONE (DRILLERS DESCRIPTION)	16
									17
									18
				19.00				COAL (DRILLERS DESCRIPTION)	19
				19.20				MUDSTONE (DRILLERS DESCRIPTION)	
				19.40				COAL (DRILLERS DESCRIPTION)	
				19.60				MUDSTONE (DRILLERS DESCRIPTION)	
				20.00					20

Remarks:



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Borehole No.

RP01

Sheet 3 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

Level:

Scale
1:50

Client:

Dates: 27/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.20				COAL (DRILLERS DESCRIPTION)	
								MUDSTONE WITH SANDSTONE BANDS (DRILLERS DESCRIPTION)	
									21
									22
									23
									24
				25.00				COAL (DRILLERS DESCRIPTION)	25
				25.20				MUDSTONE WITH SANDSTONE BANDS (DRILLERS DESCRIPTION)	
									26
									27
									28
									29
				30.00				End of Borehole at 30.000m	30

Remarks:



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Borehole No.

RP02

Sheet 1 of 3

Project Name: Britton Ferry	Project No: 14396	Co-ords:	Hole Type RO
Location: Britton Ferry		Level:	Scale 1:50
Client:		Dates: 27/03/2018 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								SOFT DRILL - TRIAL PIT (DRILLERS DESCRIPTION)	
				1.50				CLAY (DRILLERS DESCRIPTION)	1
				2.00				SANDY GRAVEL (DRILLERS DESCRIPTION)	2
									3
									4
				4.70				WEATHERED SANDSTONE (DRILLERS DESCRIPTION)	5
				5.50				SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	6
									7
									8
									9
									10

Remarks:



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Borehole No.

RP02

Sheet 2 of 3

Project Name: Britton Ferry	Project No: 14396	Co-ords:	Hole Type RO
Location: Britton Ferry		Level:	Scale 1:50
Client:		Dates: 27/03/2018 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				10.60				SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	
								MUDSTONE (DRILLERS DESCRIPTION)	11
									12
				12.50				DARK MUDSTONE (DRILLERS DESCRIPTION)	
				12.80				MUDSTONE (DRILLERS DESCRIPTION)	13
				14.00				SANDSTONE (DRILLERS DESCRIPTION)	14
									15
									16
									17
				18.00				MUDSTONE (DRILLERS DESCRIPTION)	18
				19.00				COAL (DRILLERS DESCRIPTION)	19
				19.50				MUDSTONE (DRILLERS DESCRIPTION)	
				19.80				COAL (DRILLERS DESCRIPTION)	
				19.90					20

Remarks:



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Borehole No.

RP02

Sheet 3 of 3

Project Name: Britton Ferry	Project No: 14396	Co-ords:	Hole Type RO
Location: Britton Ferry		Level:	Scale 1:50
Client:		Dates: 27/03/2018 -	Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				20.20				MUDSTONE (DRILLERS DESCRIPTION)	
				20.30				COAL (DRILLERS DESCRIPTION)	
								MUDSTONE WITH SANDSTONE BANDS (DRILLERS DESCRIPTION)	
									21
									22
									23
									24
				24.60				COAL (DRILLERS DESCRIPTION)	
				24.90				MUDSTONE (DRILLERS DESCRIPTION)	25
									26
									27
				27.60				DARK MUDSTONE WITH COAL TRACES (DRILLERS DESCRIPTION)	
				28.00				MUDSTONE (DRILLERS DESCRIPTION)	28
									29
				30.00				End of Borehole at 30.000m	30

Remarks:



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Borehole No.

RP03

Sheet 1 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

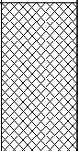
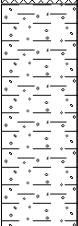
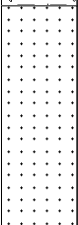
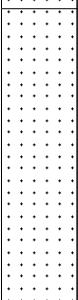
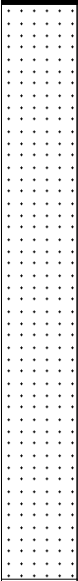
Level:

Scale
1:50

Client:

Dates: 28/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				1.00				SOFT DRILL - TRIAL PIT (DRILLERS DESCRIPTION)	
								CLAY WITH GRAVEL BANDS (DRILLERS DESCRIPTION)	1
				2.50				WEATHERED SANDSTONE (DRILLERS DESCRIPTION)	3
				4.00				SANDSTONE (DRILLERS DESCRIPTION)	4
				6.00				COAL (DRILLERS DESCRIPTION)	6
				6.20				SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	7
									8
									9
									10

Remarks:



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Borehole No.

RP03

Sheet 2 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

Level:

Scale
1:50

Client:

Dates: 28/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	
									11
									12
									13
				14.00				MUDSTONE WITH DARK BANDS (DRILLERS DESCRIPTION)	14
				14.70				SANDSTONE (DRILLERS DESCRIPTION)	15
									16
									17
				18.00				MUDSTONE (DRILLERS DESCRIPTION)	18
				19.00				SANDSTONE (DRILLERS DESCRIPTION)	19
				19.50				MUDSTONE (DRILLERS DESCRIPTION)	20

Remarks:



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Borehole No.

RP03

Sheet 3 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

Level:

Scale
1:50

Client:

Dates: 28/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				22.50				MUDSTONE (DRILLERS DESCRIPTION)	21
									22
								SANDSTONE (DRILLERS DESCRIPTION)	23
									24
									25
									26
				27.20					27
				27.40				COAL (DRILLERS DESCRIPTION)	
								SANDSTONE (DRILLERS DESCRIPTION)	28
									29
				30.00					30
								End of Borehole at 30.000m	

Remarks:



Terra Firma (Wales) Limited
5 Deryn Court, Wharfedale Road
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Borehole No.

RP04

Sheet 1 of 3

Project Name: Britton Ferry

Project No:
14396

Co-ords:

Hole Type
RO

Location: Britton Ferry

Level:

Scale
1:50

Client:

Dates: 28/03/2018 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								SOFT DRILL - TRIAL PIT (DRILLERS DESCRIPTION)	
				1.70					1
								CLAY (DRILLERS DESCRIPTION)	
				2.50					2
								SANDY GRAVEL (DRILLERS DESCRIPTION)	
									3
									4
									5
									6
				6.50				MUDSTONE (DRILLERS DESCRIPTION)	
				7.00					7
				7.30				COAL (DRILLERS DESCRIPTION)	
								SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	
									8
									9
									10

Remarks:



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5 Deryn Court, Wharfedale Road
Pentwyn, Cardiff
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Borehole No.

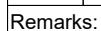
RP04

Sheet 2 of 3

Project Name:	Britton Ferry	Project No:	14396	Co-ords:		Hole Type	RO
Location:	Britton Ferry	Level:				Scale	1:50
Client:		Dates:	28/03/2018 -			Logged By	

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				11.80				SANDSTONE WITH MUDSTONE BANDS (DRILLERS DESCRIPTION)	11
								MUDSTONE (DRILLERS DESCRIPTION)	12
									13
				14.00				SANDSTONE (DRILLERS DESCRIPTION)	14
									15
									16
									17
									18
									19
				19.40 19.50				COAL (DRILLERS DESCRIPTION) MUDSTONE WITH SANDSTONE BANDS (DRILLERS DESCRIPTION)	20

Remarks:



ANNEX F
Soil Chemical Test Results



Certificate of Analysis

Certificate Number 18-01863-1

12-Feb-18

Client Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Our Reference 18-01863-1

Client Reference (not supplied)

Order No 14396

Contract Title Britton Ferry

Description 7 Soil samples, 1 Misc sample.

Date Received 25-Jan-18

Date Started 25-Jan-18

Date Completed 12-Feb-18

Test Procedures Identified by prefix DETSn (details on request).

Notes **This report supersedes 18-01863. Extra testing.**

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Matrix Descriptions

Our Ref 18-01863-1

Client Ref

Contract Title Britton Ferry

Sample ID	Depth	Lab No	Completed	Matrix Description
TP01	0.2	1288876	02/02/2018	Dark brown gravelly, sandy CLAY
TP01	1.2	1288877	02/02/2018	Brown gravelly, sandy CLAY
TP02	0.2	1288878	02/02/2018	Brown gravelly, sandy CLAY including odd rootlets
TP03	0.4	1288879	02/02/2018	Dark brown gravelly, sandy CLAY (Made ground - glass)
TP04	0.35	1288881	02/02/2018	Dark brown gravelly, sandy CLAY
TP05	0.2	1288882	02/02/2018	Dark brown gravelly, sandy CLAY (Made ground - glass)

Summary of Chemical Analysis

Soil/Misc Samples

Our Ref 18-01863-1

Client Ref

Contract Title Britton Ferry

Lab No	1288876	1288877	1288878	1288879	1288881	1288882
Sample ID	TP01	TP01	TP02	TP03	TP04	TP05
Depth	0.20	1.20	0.20	0.40	0.35	0.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	23/01/18	23/01/18	23/01/18	23/01/18	23/01/18	23/01/18
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Asbestos Quantification	DETSC 1102	0					Y		
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	62	12	48	33	120	29
Cadmium	DETSC 2301#	0.1	mg/kg	1.3	< 0.1	1.1	1.6	1.2	0.9
Chromium	DETSC 2301#	0.15	mg/kg	18	19	20	23	17	35
Chromium III	DETSC 2301*	0.15	mg/kg	18	19	20	23	17	35
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	150	21	130	97	510	89
Lead	DETSC 2301#	0.3	mg/kg	100	21	97	250	160	110
Mercury	DETSC 2325#	0.05	mg/kg	0.10	< 0.05	0.09	0.10	0.07	0.09
Nickel	DETSC 2301#	1	mg/kg	18	24	16	23	37	18
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5	1.2	1.4
Zinc	DETSC 2301#	1	mg/kg	210	63	190	530	200	180
Inorganics									
pH	DETSC 2008#			7.5	7.3	6.9	8.3	7.3	7.2
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3	< 0.1	0.3	0.2	0.1	0.4
Organic matter	DETSC 2002#	0.1	%	4.3	1.2	5.0	3.0	7.2	7.5
Sulphate as SO ₄ , Total	DETSC 2321#	0.01	%	0.06	0.03	0.06	0.06	0.07	0.09
Petroleum Hydrocarbons									
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	3.8	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.04	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.08
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.17	0.16	0.22

Summary of Chemical Analysis

Soil/Misc Samples

Our Ref 18-01863-1

Client Ref

Contract Title Britton Ferry

Lab No	1288876	1288877	1288878	1288879	1288881	1288882
Sample ID	TP01	TP01	TP02	TP03	TP04	TP05
Depth	0.20	1.20	0.20	0.40	0.35	0.20
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	23/01/18	23/01/18	23/01/18	23/01/18	23/01/18	23/01/18
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	< 0.03	0.27	0.32	0.30
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.20	0.27	0.21
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.12	0.12	0.10
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.18	0.19	0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.17	0.21	0.18
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.08	0.09	0.07
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.08	0.12	0.09
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.07	0.08	0.07
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.06	0.08	0.08
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	1.4	1.6	1.6
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.6

Summary of Asbestos Analysis

Soil Samples

Our Ref 18-01863-1

Client Ref

Contract Title Britton Ferry

Material

Lab No	Sample ID	Sample Location	Type*	Result	Comment*	Analyst
1288876	TP01 0.20		SOIL	NAD	none	A Christodoulou
1288878	TP02 0.20		SOIL	NAD	none	A Christodoulou
1288879	TP03 0.40		SOIL	Chrysotile	Chrysotile Present in microscopic bitumen fragments	A Christodoulou
1288880	TP03 0.80		SOIL	NAD	none	A Christodoulou
1288881	TP04 0.35		SOIL	NAD	none	A Christodoulou
1288882	TP05 0.20		SOIL	NAD	none	A Christodoulou
1288883	SHEET 01 0.40		Cement	Chrysotile	none	A Christodoulou

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 18-01863-1

Client Ref

Contract Title Britton Ferry

Lab No	1288879
Sample ID	TP03
Depth	0.40
Other ID	
Sample Type	SOIL
Sampling Date	23/01/18
Sampling Time	

Test	Method	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	Mass %	< 0.001
Gravimetric Quantification (a)	DETSC 1102	Mass %	0.000
Detailed Gravimetric Quantification (b)	DETSC 1102	Mass %	na
Quantification by PCOM (c)	DETSC 1102	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	Fibres/g	na

Breakdown of Gravimetric Analysis (a)

Mass of Sample		g	475.09
ACMs present*		type	Bitumen
Mass of ACM in sample		g	0.01
% ACM by mass		%	0.00
% asbestos in ACM		%	8.00
% asbestos in sample		%	0.00

Breakdown of Detailed Gravimetric Analysis (b)

% Amphibole bundles in sample		Mass %	na
% Chrysotile bundles in sample		Mass %	na

Breakdown of PCOM Analysis (c)

% Amphibole fibres in sample		Mass %	na
% Chrysotile fibres in sample		Mass %	na

Breakdown of Potentially Respirable Fibre Analysis (d)

Amphibole fibres		Fibres/g	na
Chrysotile fibres		Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample

Information in Support of the Analytical Results

Our Ref 18-01863-1
 Client Ref
 Contract Britton Ferry

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1288876	TP01 0.20 SOIL	23/01/18	GJ 250ml, PT 1L		
1288877	TP01 1.20 SOIL	23/01/18	GJ 250ml, PT 1L		
1288878	TP02 0.20 SOIL	23/01/18	GJ 250ml, PT 1L		
1288879	TP03 0.40 SOIL	23/01/18	GJ 250ml, PT 1L		
1288880	TP03 0.80 SOIL	23/01/18	GJ 250ml		
1288881	TP04 0.35 SOIL	23/01/18	GJ 250ml, PT 1L		
1288882	TP05 0.20 SOIL	23/01/18	GJ 250ml, PT 1L		
1288883	SHEET 01 0.40 MISC	23/01/18	P(other)		

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETSC 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETSC 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETSC 2024	Sulphide	mg/kg	10	Air Dried	No	Yes	Yes
DETSC 2076	Sulphate Aqueous Extract as SO ₄	mg/l	10	Air Dried	No	Yes	Yes
DETSC 2084	Total Carbon	%	0.5	Air Dried	No	Yes	Yes
DETSC 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETSC 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETSC 2321	Total Sulphate as SO ₄	%	0.01	Air Dried	No	Yes	Yes
DETSC 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETSC 3049	Sulphur (free)	mg/kg	0.75	Air Dried	No	Yes	Yes
DETSC2123	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETSC2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETSC2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETSC2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETSC2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETSC2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETSC2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETSC 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C12	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETSC 3072	Aromatic C12-C16	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETSC 3072	Aromatic C16-C21	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETSC 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETS 062	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.



Amended Report

Report No.: 19-27483-2

Initial Date of Issue: 21-Aug-2019 **Date of Re-Issue:** 27-Aug-2019

Client Terra Firma (Wales) Ltd

Client Address: 5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Contact(s): Dave Emanuel

Project Britton Ferry

Quotation No.: **Date Received:** 15-Aug-2019

Order No.: **Date Instructed:** 15-Aug-2019

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 21-Aug-2019

Date Approved: 21-Aug-2019

Approved By:


Details: Glynn Harvey, Laboratory Manager

Project: Britton Ferry

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-27483	19-27483	19-27483	19-27483
Quotation No.:	Chemtest Sample ID.:				873968	873969	873970	873971
	Sample Location:				TP101	TP101	TP102	TP103
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.70	0.30	0.70
	Date Sampled:				12-Aug-2019	12-Aug-2019	12-Aug-2019	12-Aug-2019
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-
Moisture	N	2030	%	0.020	11	17	18	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand
pH	M	2010		N/A	10.0	9.6	8.8	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.71	0.89	0.88	1.2
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.075	0.11	0.21	0.19
Arsenic	M	2450	mg/kg	1.0	48	24	64	83
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.19	< 0.10	0.63	0.92
Chromium	M	2450	mg/kg	1.0	370	120	19	130
Mercury Low Level	M	2450	mg/kg	0.05	0.32	0.25	0.16	0.40
Manganese	M	2450	mg/kg	5.0	11000	2200	670	2300
Molybdenum	M	2450	mg/kg	2.0	3.4	4.2	5.2	7.7
Antimony	N	2450	mg/kg	2.0	< 2.0	< 2.0	3.7	6.4
Copper	M	2450	mg/kg	0.50	180	420	130	160
Nickel	M	2450	mg/kg	0.50	37	32	24	32
Lead	M	2450	mg/kg	0.50	28	23	67	120
Selenium	M	2450	mg/kg	0.20	< 0.20	0.29	0.90	1.1
Zinc	M	2450	mg/kg	0.50	360	220	120	200
Chromium (Trivalent)	N	2490	mg/kg	1.0	370	120	19	130
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	9.3	11	14	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	16	16	23	3.9
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	18	13	14	4.1
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	99	61	89	170
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	18	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	140	100	160	180
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project: Britton Ferry

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-27483	19-27483	19-27483	19-27483
Quotation No.:	Chemtest Sample ID.:				873968	873969	873970	873971
	Sample Location:				TP101	TP101	TP102	TP103
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.70	0.30	0.70
	Date Sampled:				12-Aug-2019	12-Aug-2019	12-Aug-2019	12-Aug-2019
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	13	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	5.0	6.3	250	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	59	38	160	1.1
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	260	210	430	34
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	850	890	1700	310
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	82	50	210	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	1300	1200	2800	350
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1400	1300	2900	530
Naphthalene	M	2700	mg/kg	0.10	22	5.5	2.3	1.8
Acenaphthylene	M	2700	mg/kg	0.10	2.6	2.2	0.78	0.59
Acenaphthene	M	2700	mg/kg	0.10	7.1	2.2	0.42	0.46
Fluorene	M	2700	mg/kg	0.10	6.8	4.2	1.0	0.65
Phenanthrene	M	2700	mg/kg	0.10	49	28	9.9	8.5
Anthracene	M	2700	mg/kg	0.10	11	6.9	2.8	1.9
Fluoranthene	M	2700	mg/kg	0.10	70	39	16	12
Pyrene	M	2700	mg/kg	0.10	70	38	16	12
Benzo[a]anthracene	M	2700	mg/kg	0.10	37	17	13	7.3
Chrysene	M	2700	mg/kg	0.10	31	17	10	7.4
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	40	21	16	13
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	16	8.3	7.0	5.7
Benzo[a]pyrene	M	2700	mg/kg	0.10	37	20	17	13
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	23	12	14	12
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	3.2	2.0	1.9	1.5
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	21	14	13	11
Total Of 16 PAH's	M	2700	mg/kg	2.0	450	240	140	110
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	1.2	1.0	2.7	1.5



2183



Final Report

Report No.: 19-35873-1

Initial Date of Issue: 05-Nov-2019

Client Terra Firma (Wales) Ltd

Client Address: 5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Contact(s): Dave Emanuel

Project 14396 BRITON FERRY

Quotation No.: **Date Received:** 25-Oct-2019

Order No.: **Date Instructed:** 25-Oct-2019

No. of Samples: 7

Turnaround (Wkdays): 5 **Results Due:** 31-Oct-2019

Date Approved: 05-Nov-2019

Approved By:

Details: Glynn Harvey, Laboratory Manager

Results - Soil

Project: 14396 BRITON FERRY

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-35873	19-35873	19-35873	19-35873	19-35873	19-35873	19-35873
Quotation No.:	Chemtest Sample ID.:				913105	913106	913107	913108	913109	913110	913111
	Sample Location:				TP201	TP202	TP203	TP204	TP205	TP206	TP207
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.3	0.2	0.4	0.3	0.3	0.4
	Date Sampled (\$):				23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019
	Asbestos Lab:				LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	-	Insulation	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	Amosite Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	Stereo Microscopy	-	-	-	-	-
Moisture	N	2030	%	0.020	20	13	21	11	20	14	15
Soil Colour	N	2040		N/A	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,	Brown,
Other Material	N	2040		N/A	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,	Stones,
Soil Texture	N	2040		N/A	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,	Sand,
pH	M	2010		N/A	8.2	9.2	8.1	7.2	7.8	8.1	8.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Total)	M	2300	mg/kg	0.50	1.1	< 0.50	1.0	0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.056	0.087	0.062	0.031	0.036	0.040	0.022
Arsenic	M	2450	mg/kg	1.0	97	38	37	19	67	26	21
Cadmium	M	2450	mg/kg	0.10	3.1	0.65	1.2	0.42	0.79	0.57	0.39
Chromium	M	2450	mg/kg	1.0	18	25	43	16	14	62	18
Mercury Low Level	M	2450	mg/kg	0.05	0.13	0.11	0.31	0.12	1.1	0.30	0.14
Copper	M	2450	mg/kg	0.50	130	65	110	71	130	44	32
Nickel	M	2450	mg/kg	0.50	34	43	20	24	19	21	25
Lead	M	2450	mg/kg	0.50	1400	400	150	87	89	37	32
Selenium	M	2450	mg/kg	0.20	1.2	0.21	0.67	0.57	0.70	0.65	0.65
Zinc	M	2450	mg/kg	0.50	3000	250	340	130	150	100	97
Chromium (Trivalent)	N	2490	mg/kg	1.0	18	25	43	16	14	62	18
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	410
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	48
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	41	< 1.0	260
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	41	< 5.0	740
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	99
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	14	< 1.0	460

Results - Soil

Project: 14396 BRITON FERRY

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-35873	19-35873	19-35873	19-35873	19-35873	19-35873	19-35873
Quotation No.:	Chemtest Sample ID.:				913105	913106	913107	913108	913109	913110	913111
	Sample Location:				TP201	TP202	TP203	TP204	TP205	TP206	TP207
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	0.3	0.2	0.4	0.3	0.3	0.4
	Date Sampled (\$):				23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019	23-Oct-2019
	Asbestos Lab:				LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL	LIVERPOOL
Determinand	Accred.	SOP	Units	LOD							
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	68	< 1.0	< 1.0	< 1.0	40	< 1.0	1700
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	160
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	68	< 5.0	< 5.0	< 5.0	54	< 5.0	2500
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	68	< 10	< 10	< 10	95	< 10	3200
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	0.84
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.0	< 0.10	< 0.10	< 0.10	0.46
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.65	< 0.10	< 0.10	< 0.10	0.38
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	7.4	< 0.10	< 0.10	2.0	2.6
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	2.2	< 0.10	< 0.10	0.51	0.60
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	12	0.39	0.27	2.9	4.2
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	12	0.57	0.44	3.4	4.0
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	5.7	< 0.10	< 0.10	1.5	2.0
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	7.5	< 0.10	< 0.10	2.0	2.8
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	7.6	< 0.10	< 0.10	1.9	2.9
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	3.7	< 0.10	< 0.10	0.91	1.3
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	5.8	< 0.10	< 0.10	1.6	2.2
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	4.2	< 0.10	< 0.10	< 0.10	1.2
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.91	< 0.10	< 0.10	0.60	0.45
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	4.1	< 0.10	< 0.10	0.78	1.7
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	76	< 2.0	< 2.0	18	28
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	0.49
Organic Matter BS1377	N	2930	%	0.10	3.0	2.2	4.5	2.7	3.7	3.2	2.8

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	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 <37°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	Alkaline 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.
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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
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"
- \$ This information has been supplied by the client and can affect the integrity of test data.

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

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 TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°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 45 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

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



Final Report

Report No.: 19-40111-1

Initial Date of Issue: 19-Dec-2019

Client Terra Firma (Wales) Ltd

Client Address: 5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HA

Contact(s): Dave Emanuel

Project 14396 Briton Ferry

Quotation No.: **Date Received:** 29-Nov-2019

Order No.: **Date Instructed:** 29-Nov-2019

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 05-Dec-2019

Date Approved: 19-Dec-2019

Approved By:

Details: Glynn Harvey, Laboratory Manager

Project: 14396 Briton Ferry

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-40111	19-40111	19-40111	19-40111
Quotation No.:	Chemtest Sample ID.:				935118	935119	935120	935121
	Sample Location:				TP301	TP302	TP303	TP304
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m) (\$):				0.40	0.40	0.40	0.40
	Date Sampled (\$):				28-Nov-2019	28-Nov-2019	28-Nov-2019	28-Nov-2019
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-	-	-	-
Moisture	N	2030	%	0.020	16	9.4	16	22
Soil Colour	N	2040		N/A	Brown	Brown	Black	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones, Brick
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Clay
pH	M	2010		4.0	9.8	9.1	9.0	9.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.6	0.83	1.6	0.99
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.010	0.34	0.28	0.37	0.97
Arsenic	M	2450	mg/kg	1.0	76	14	20	34
Beryllium	U	2450	mg/kg	1.0	1.1	< 1.0	1.3	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.22	0.20	< 0.10	0.47
Chromium	M	2450	mg/kg	1.0	13	6.5	8.7	12
Mercury Low Level	M	2450	mg/kg	0.05	0.30	< 0.05	0.10	0.10
Manganese	M	2450	mg/kg	5.0	380	160	590	560
Molybdenum	M	2450	mg/kg	2.0	5.6	4.2	3.6	< 2.0
Antimony	N	2450	mg/kg	2.0	6.6	< 2.0	3.5	< 2.0
Copper	M	2450	mg/kg	0.50	1000	48	86	70
Nickel	M	2450	mg/kg	0.50	65	25	56	13
Lead	M	2450	mg/kg	0.50	70	13	31	31
Selenium	M	2450	mg/kg	0.20	1.3	0.64	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	320	36	110	86
Chromium (Trivalent)	N	2490	mg/kg	1.0	13	6.5	8.7	12
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	6.8	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	470	39	< 1.0	65
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	53	77	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	530	120	< 5.0	65
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project: 14396 Briton Ferry

Client: Terra Firma (Wales) Ltd	Chemtest Job No.:				19-40111	19-40111	19-40111	19-40111
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	Sample Location:				TP301	TP302	TP303	TP304
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m) (\$):				0.40	0.40	0.40	0.40
	Date Sampled (\$):				28-Nov-2019	28-Nov-2019	28-Nov-2019	28-Nov-2019
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	38	56	< 1.0	4.2
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	1000	220	< 1.0	63
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	14	36	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	1100	310	< 5.0	67
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1600	430	< 10	130
Naphthalene	M	2700	mg/kg	0.10	< 0.10	0.54	0.36	0.56
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	0.38	0.13	0.14
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	2.7	0.18	0.48
Fluorene	M	2700	mg/kg	0.10	< 0.10	1.7	0.16	0.89
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	3.7	1.2	8.0
Anthracene	M	2700	mg/kg	0.10	< 0.10	4.0	0.43	3.0
Fluoranthene	M	2700	mg/kg	0.10	0.85	7.9	2.3	7.9
Pyrene	M	2700	mg/kg	0.10	0.93	8.1	2.5	10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	6.9	1.1	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	5.5	1.1	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	5.6	1.7	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	1.8	0.59	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	3.7	1.6	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.1	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	0.32	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	1.6	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	53	16	31
Total Phenols	M	2920	mg/kg	0.30	0.33	< 0.30	< 0.30	< 0.30
Organic Matter BS1377	N	2930	%	0.10	1.5	5.0	0.80	4.6

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	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 <37°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	Alkaline 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.
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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
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"
- \$ This information has been supplied by the client and can affect the integrity of test data.

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

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 TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°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 45 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

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

ANNEX G
Soil Geotechnical Test Results



Laboratory Report



GEO Site & Testing Services Ltd

Contract Number: 38033

Client Ref: **14396**

Report Date: **06-02-2018**

Client PO: **14396**

Client **Terrafirma Wales Ltd**
5 Deryn Court
Wharfedale Road
Pentwyn
Cardiff
CF23 7HB

Contract Title: **Britton Ferry**
For the attention of: **David Emanuel**

Date Received: **26-01-2018**
Date Commenced: **26-01-2018**
Date Completed: **06-02-2018**

Test Description	Qty
Moisture Content BS 1377 : Part 2 : 3.2 - * UKAS	2
4 Point Liquid & Plastic Limit (LL/PL) BS 1377 Part 2 : 4.3 & 5.3 - * UKAS	2
Disposal of Samples on Project	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Alex Wynn (Associate Director) - Ben Sharp (Contracts Manager) - Emma Sharp (Office Manager)

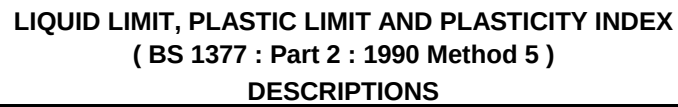
Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager) - Sean Penn (Administrative Assistant)

Vaughan Edwards (Managing Director) - Wayne Honey (Administrative/Quality Assistant)

GEO Site & Testing Services Ltd

Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

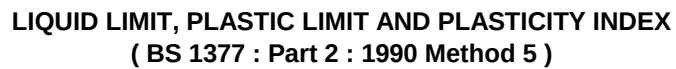


38033

Britton Ferry

Operators	Checked	05-02-18	Emma Sharp	
RO/MH	Approved	06-02-18	Paul Evans	



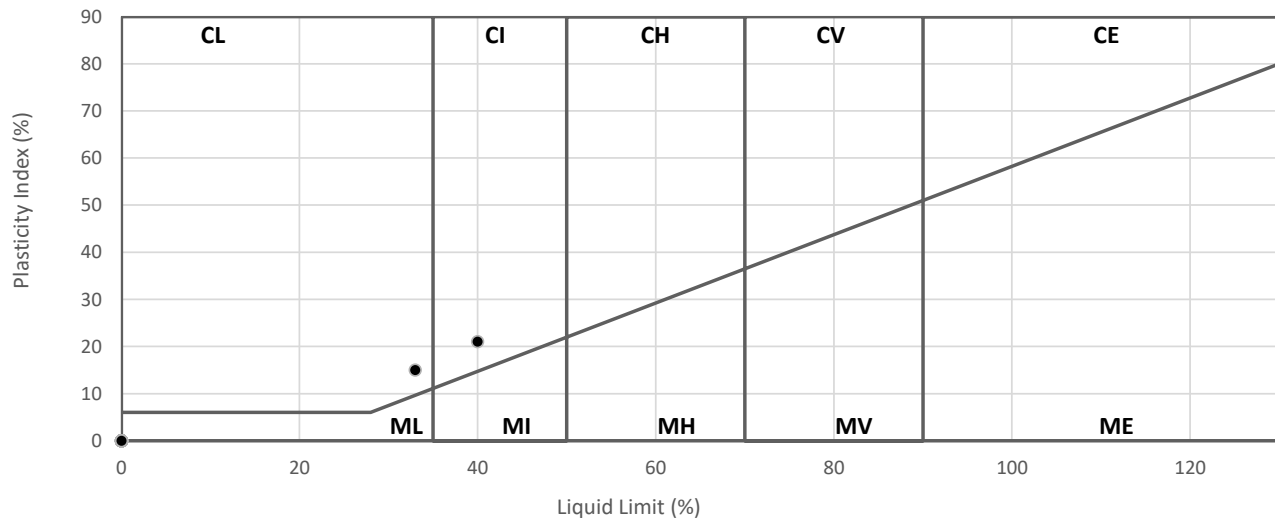


38033

Britton Ferry

: Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION BS 5930:1999+A2:2010



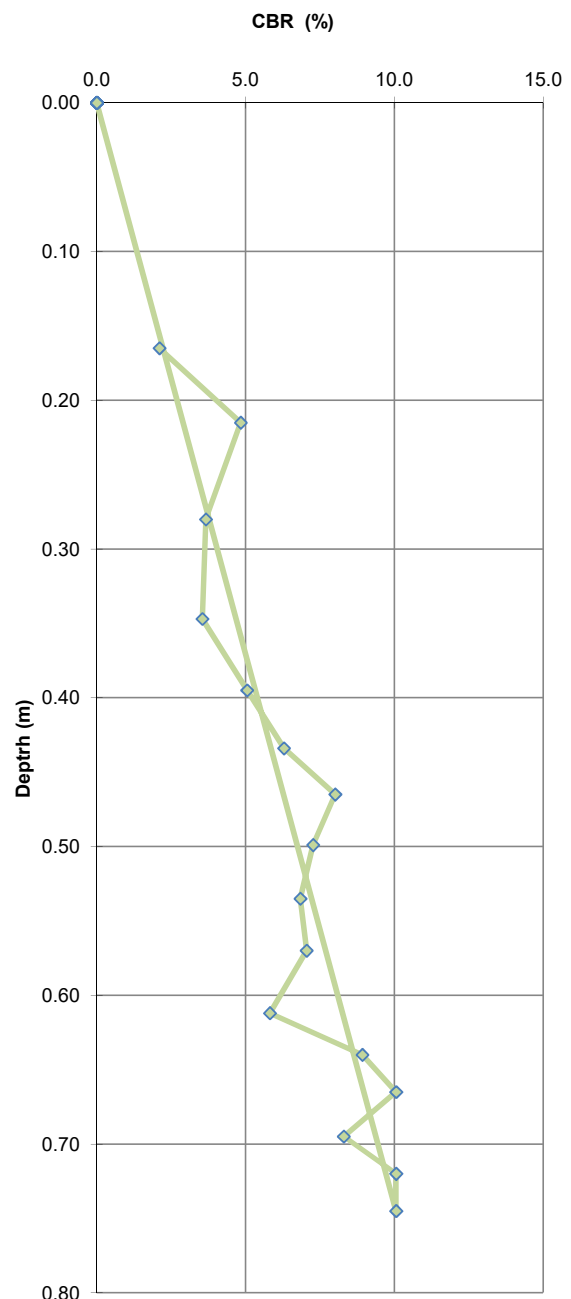
Operators	Checked	05-02-18	Emma Sharp	
DB	Approved	06-02-18	Paul Evans	

ANNEX H
CBR Test Results

terrafirma

TRL01

Date: 06/02/2018

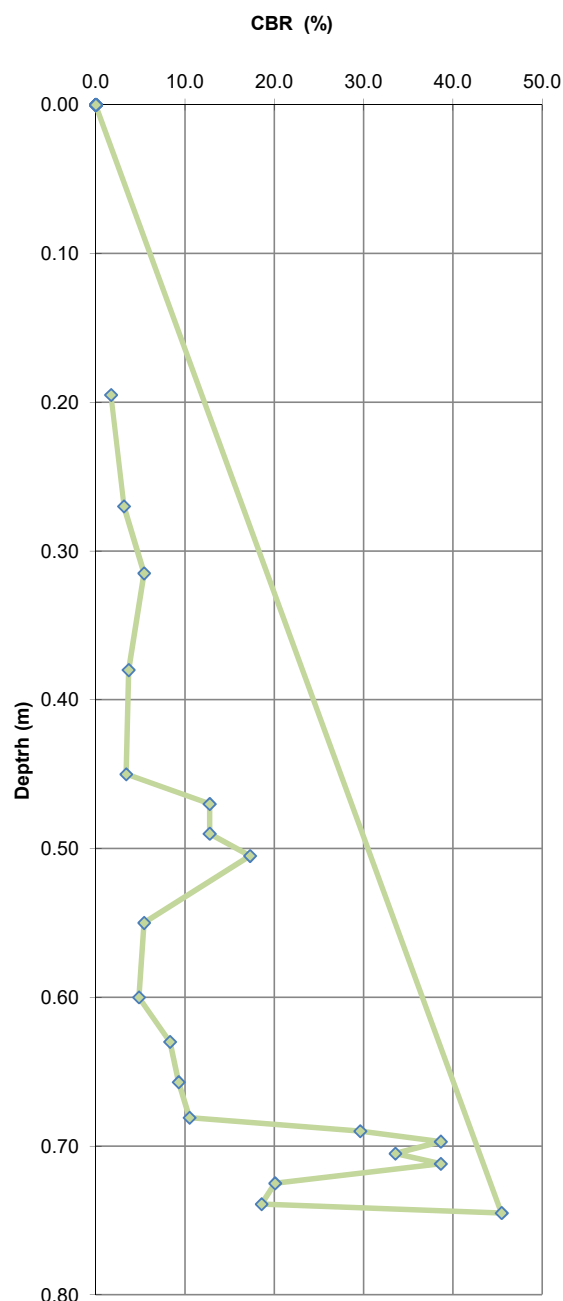


Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

terrafirma

TRL02

Date: 06/02/2018

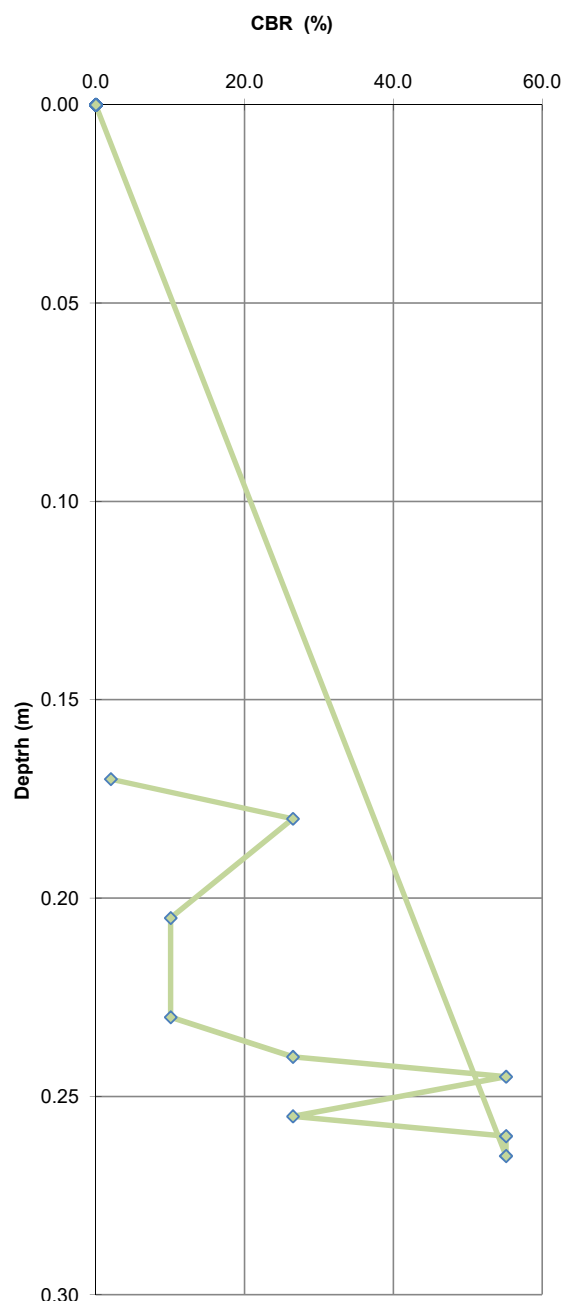


Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

terrafirma

Date: 06/02/2018

TRL03

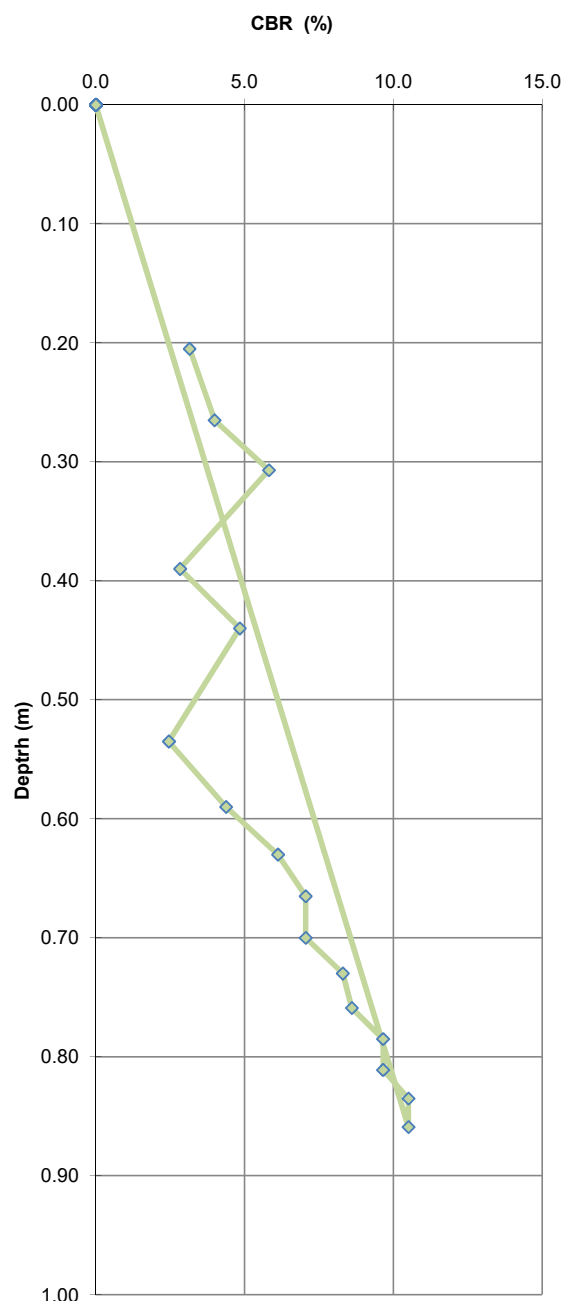
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Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)

terrafirma

TRL04

Date: 06/02/2018



Highways Agency Interim Advice Note 73/06 - Design Guidance for Road Pavement Foundations (2009)