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earth matters



Tier 2 Geotechnical and Geoenvironmental Assessment

Site: The Red Dragon, Port Talbot

Prepared For: Castell Construction Limited

Issue Date: June 2025

Job No: TF-24-275-CA

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REPORT TITLE : **Geoenvironmental and Geotechnical Report: Proposed Residential Development, The Red Dragon, Port Talbot**

JOB NUMBER : **TF-24-275-CA**

ISSUE DATE : **June 2025**

REPORT REFERENCE : **GGR-060625-TF-24-275-CA-01**

Document Revision Record

Issue No.	Date	Revision Details	Initials
1	06/06/25	Draft	25

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Executive Summary

Site Location and Proposed Development	*Castell Construction Ltd (the Client) is proposing the construction of a new residential development at the Red Dragon, Port Talbot. The proposed development will consist of 22 residential dwellings and associated infrastructure including access road, car parking, soft landscaping and gardens.* *The development site is triangular/square/rectangular/irregular in shape and locates at the location of the Red Dragon, Port Talbot. The site centres on an approximate National Grid Reference of 274670, 189870, occupying a plan area of approximately 0.21 Hectares.*
Site History	*The earliest historic map, circa 1876, shows the site forms part of a sand dune and is covered in the reeds. The historic map of 1952-1957 shows the Red Dragon pub has been built in the north of the site. by 2024 the pub has been extended and there have been no other significant changes.*
Geology	*The site is shown to be underlain by coal bearing mudstone/siltstone rock, of the South Wales Middle Coal Measures.* *Superficial deposits are recorded as Blown Sand* *Made ground is anticipated at the site associated with historic landscaping.*
Radon	*The Envirocheck report (Annex A) details that no radon protective measures are required for new developments constructed at ground level on the investigation site.*
Coal Mining Risk Assessment	*The overall risk to the surface stability of the site from possible unrecorded legacy mining features is considered negligible.* *It is determined the site is in a negligible risk zone from mine gas and no mitigation measures are required.*
Ground Conditions	**Depth (m)** / **Stratum** *0.00 - 0.25* — *MADE GROUND: Grass over slightly sandy gravelly CLAY.* *0.00 - 0.05 - 0.10* — *MADE GROUND: Black TARMAC.* *0.00 - 0.04* — *MADE GROUND: Grey PAVING SLAB.* *0.04 - 0.14* — *MADE GROUND: Grey CONCRETE.* *0.05 - 0.14 - 0.25 - 0.80* — *MADE GROUND: Medium dense black sandy GRAVEL with low cobble content.* *0.25 - 0.80 - 8.20 - 9.10* — *Loose becoming medium dense yellow SAND.* *9.10 - 10.00* — *Firm grey silty sandy CLAY.* *10.00 - 12.50* — *Medium dense grey silty SAND.* *12.50 - 14.20* — *Medium dense brown SAND with occasional shells.* *8.20 - 14.20 - 16.10 - 22.20* — *Very loose to loose grey clayey silty SAND.* *16.10 - 23.10* — *Very soft grey silty CLAY.* *22.20 - 23.10 - 22.60 - 23.50* — *Soft dark grey CLAY with decomposing organic matter.* *22.60 - 23.50 - 23.60 - >24.00* — *Very dense grey slightly sandy GRAVEL with low cobble content.* *23.60 - 24.10* — *Possible SANDSTONE bedrock.*
Contamination of Concern	*Elevated Arsenic was found in two of six samples tested. PBET testing on the arsenic to potentially derive a more conservative guideline for Arsenic can be undertaken, however due to the high concentration, 110mg/kg, it is unlikely that a guideline greater than this will be derived from PBET testing.* *The identified contamination can be treated as a hotspot and to protect future site users the area of the hotspot must be excavated and removed. The contamination*

	has been found in a discrete layer of made ground and it is therefore recommended that this layer is excavated and removed from site. The impacted layer was encountered in all exploratory locations and is identified as MADE GROUND: Medium dense black sandy GRAVEL with low cobble content at depths between 0.05m and 0.80m.
Ground Gas Risk Assessment	*Sites classified as CS1 require no special ground gas protection measures to be incorporated within the construction.*
Foundation Solution	*The proposed development is likely to comprise the construction of a block of flats containing 22No residential dwellings of masonry/timber construction.* *The ground investigation confirmed the ground conditions beneath the site to comprise medium dense sands between 1.20 and 2.00m depth below existing ground level.* *In due consideration of the identified ground conditions, in-situ testing Terra Firma has undertaken an assessment of the net safe allowable bearing pressure (ABP) with the underlying soils to assist in the detailed design of foundations and infrastructure and to determine a suitable target stratum.* *For smaller structures it is recommended that a combination of reinforced concrete strip and reinforced trench fill with reinforced concrete beam foundations be used; founded within the medium dense yellow sand at an approximate depth of 1.2 to 2.00m below the existing ground level. An allowable bearing pressure of 75kN/m2 may be used for strips up to 900mm wide.* *Foundations must sit at least 200mm within the founding horizon.* *For the given foundation solutions and bearing pressure, maximum total settlements of <25mm should result with differential movements of the superstructure not exceeding 1:750.* *Floor slabs should be designed as suspended.* *For large building requiring a greater bearing pressure, it is recommended a CFA foundation solution founded within the very dense grey gravels at a depth of 22.60 - 23.50m below existing ground level is used. For a 300mm bored pile with a typical length of 23m an allowable working load of 300kN should be achieved.* *Measurements should be put in place to monitor vibrations during pile installation. If vibrations exceed guideline levels, then measures should also be taken to dampen such vibrations. If, however, vibrations exceed permissible values then consideration should be given to an alternative solution.* *The estimated working pile loads, pile type and lengths should be confirmed by a specialist piling contractor and it may be prudent to test drive/install piles at selected locations.* *For the quoted pile sizes, founded within the competent in-situ materials, total settlements should not exceed 10mm with differential movements between adjacent piles being less than half this value.*

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Drawing 01 Proposed Site Layout

SECTION 1 Introduction & Proposed Development

1.1 Background

Castell Construction Ltd (the Client) is proposing the construction of a new residential development at the Red Dragon, Port Talbot. The proposed development will consist of a block of flats with 022 residential dwellings and associated infrastructure including access road, car parking, soft landscaping and gardens. The proposed layout can be seen in **Figure 1.1**.



Figure 1.1 Proposed Site Layout

Pheonix Design Ltd are the consulting Civil Engineer for the project.

TFW Group Ltd (Terra Firma) have been commissioned by the Client to undertake a Geotechnical and Geoenvironmental Report

A Tier 1 (Desk Study) including a Preliminary Geoenvironmental, Geotechnical and Coal Mining Risk Assessment was completed by Terra Firma. The findings of the Tier 1 Assessment are summarised in Section 2 of this report.

This report contains a Tier 2 assessment (Site Investigation) including a Generic Quantitative Geoenvironmental Risk Assessment and Geotechnical Ground Investigation.

1.2 Objectives

Land Contamination Risk Management (LCRM) guidance provided by the Environment Agency advocates using a tiered approach. This comprises Tier 1; the Preliminary Risk Assessment, Tier 2; the Generic Quantitative Risk Assessment and Tier 3; the Detailed

Quantitative Risk Assessment. As each tier is completed a decision is made whether it is necessary to advance to the next tier.

In addition to LCRM, geotechnical aspects of the development also need to be considered and are approached in a similar manner, with the risks identified in the preliminary assessment, and then investigated through subsequent phase of investigation.

1.2.1 Tier 2

The main objectives of the Tier 2 Generic Quantitative Geoenvironmental Risk Assessment programme are:

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

The main objectives of the Geotechnical Site Investigation are:

- investigate the type, strength and bearing characteristics of the shallow superficial and underlying solid geology;
- provide engineering foundation and floor slab recommendations for the proposed development;
- provide infiltration rates and stormwater drainage viability; and
- provide recommendations regarding any other geotechnical aspects pertaining to the development.

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

The scope of the works including the schedule for in-situ and laboratory testing was determined by Terra Firma.

1.3 Geotechnical Category

In accordance with BS EN 1997-1:2004+A1:2013, the proposed development comprises the following geotechnical category:

Geotechnical Category 2: conventional types of structures and foundation with no exceptional risk of difficult soil or loading conditions (e.g., spread, raft & pile foundations; retaining structures; excavations; earthworks and ground anchors).

1.4 Information Sources

The following sources of information have been referenced in support of this assessment:

- Client provided information, proposed site layout. (**Figure 1.1**); and
- Tier 1 Assessment (TF-24-275-CA)

1.5 Roles & Responsibilities

Table 1.1 Roles and Responsibilities

Role	Organisation
Client/Developer	Castell Construction Limited
Geotechnical/Geoenvironmental Consultant	TFW Group Limited
Civil Engineer	Pheonix Design Limited
Architect	RLH architectural Limited
Local Authority	Neath Port Talbot County Borough Council

1.6 Limitations & Exceptions of Investigation

The Client has requested that a Tier 2 Geoenvironmental and Geotechnical Report (GGR) be undertaken to enable the outlined main objectives.

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

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

Human health and environmental risk assessment outcomes may not take into account the potential for the creation of new contaminant linkages as a result of variation to the proposed development and recommended engineering solutions. It is therefore imperative that the Client engages a geoenvironmental consultant to re-visit the conceptual site model and potential risks upon completion of final designs, prior to development.

Whilst this report assesses the suitability of soils in respect to human health and the environment, it is beyond the scope of this report to determine the legal status of imported and re-used soils/aggregates. It is the responsibility of the Client to confirm imported and re-used soils/aggregates have reached ‘Non-Waste’ status.

The investigation was limited by the following site constraints:

- the presence of existing buildings, structures and/or hard standing;

1.7 Quality Assurance

The quality, health, safety and environmental aspects of the assessment comply with Terra Firma business management system which is UKAS accredited and complies with the requirements of BS EN ISO 9001:2015, BS EN ISO 14001:2015 and BS EN ISO 45001:2018 standards.

SECTION 2 Tier 1 Assessment

The site has been the subject of a previous Tier1 Geoenvironmental Desk Study:

- *Terra Firma, Tier 1 Geoenvironmental & Geotechnical Report TF-24-257-vs dated April 2025.*

The salient points of the Tier 1 Assessment are summarised in **Section 2.1**.

2.1 Summary of Tier 1 Assessment

The findings of the Tier 1 Assessment are summarised in **Table 2.1**.

Table 2.1 Summary of Tier 1 Assessment

Site History	*The earliest historic map, circa 1876, shows the site forms part of a sand dune and is covered in the reeds. The historic map of 1952-1957 shows the Red Dragon pub has been built in the north of the site. by 2024 the pub has been extended and there have been no other significant changes.*
Geology	*The site is shown to be underlain by coal bearing mudstone/siltstone rock, of the South Wales Middle Coal Measures.* *Superficial deposits are recorded as Blown Sand* *Made ground is anticipated at the site associated with historic landscaping.*
Radon	*The Envirocheck report (Annex A) details that no radon protective measures are required for new developments constructed at ground level on the investigation site.*
Coal Mining Risk Assessment	*The overall risk to the surface stability of the site from possible unrecorded legacy mining features is considered negligible.* *It is determined the site is in a negligible risk zone from mine gas and no mitigation measures are required.*
Potential Sources of Contamination	*Possible made ground beneath the site associated with historic land scaping is a potential contamination* *The site is within a landscaped area and infilled land located within influencing distance are potential sources of ground gas.*

SECTION 3 Field Investigation

3.1 Site Works

A geotechnical and geoenvironmental site investigation comprising two cable percussion boreholes, four window sample boreholes and two falling head tests was undertaken between the 25th April 2025 and 6th May 2025.

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

WINDOW SAMPLING

The boreholes referenced WS01 and WS04, were formed using a Terrier 2000 rig. Dynamic sampling techniques were employed from surface to produce a continuous disturbed sample.

Standard penetration tests (SPT) were carried out at regular intervals in general accordance with BS1377: Part 9:1990:3.3. SPT results summarised as N values are presented on the borehole log.

Boreholes were monitored for groundwater ingress as drilling proceeded.

Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

The borehole logs are presented in **Annex C.**

SOAKAWAYS

Falling head tests were carried out in WS01 and WS03 in general accordance with BS5930:2015. The tests were carried out by adding water to the borehole and timing the fall of the head of water.

The soakaway test sheets are presented in **Annex D.**

CABLE PERCUSSIVE BOREHOLES

Boreholes reference BH01 to BH02 were formed using a light cable tool (shell and auger) drilling rig. Boreholes were advanced from surface using 200mm tools and casing with the occasional use of a heavy chisel to assist boring.

Standard penetration tests (SPT) were carried out at regular intervals in general accordance with BS1377: Part 9:1990:3.3. SPT results summarised as N values are presented on the borehole log.

Representative disturbed samples were taken and retained in airtight containers for environmental and geotechnical testing.

Boreholes were monitored for groundwater ingress as drilling proceeded.

The borehole logs are presented in **Annex C.**

BOREHOLE BACKFILL/ INSTALL

On completion WS04, BH01 and BH02 were backfilled with materials arising and gravel the surface reinstated.

On completion, boreholes WS01, WS02 and WS03 were installed with slotted standpipes consisting of a 50mm ID HDPE slotted tube set in a granular filer zone and sealed above with a bentonite plug. Installations were protected at surface with a flush cover. Full installation details are recorded on the relevant logs.

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

3.2 Ground Conditions

The ground conditions encountered by the exploratory holes can in general be summarised as shown in **Table 3.1**.

Table 3.1 Summary of Typical Ground Conditions

Depth (m)			Thickness (m)	Stratum
0.00	-	0.25	0.25	**MADE GROUND**: Grass over slightly sandy gravelly **CLAY.**
0.00	-	0.05 - 0.10	0.05 - 0.10	**MADE GROUND**: Black **TARMAC.**
0.00	-	0.04	0.04	**MADE GROUND**: Grey **PAVING SLAB**.
0.04	-	0.14	0.10	**MADE GROUND**: Grey **CONCRETE**.
0.05 - 0.14	-	0.25 - 0.80	0.20 - 0.74	**MADE GROUND**: Medium dense black sandy **GRAVEL** with low cobble content.
0.25 - 0.80	-	8.20 - 9.10	7.40 - 8.60	Loose becoming medium dense yellow **SAND**.
9.10	-	10.00	0.90	Firm grey silty sandy **CLAY**.
10.00	-	12.50	2.50	Medium dense grey silty **SAND**.
12.50	-	14.20	1.70	Medium dense brown **SAND** with occasional shells.
8.20 - 14.20	-	16.10 - 22.20	1.90 - 14.00	Very loose to loose grey clayey silty **SAND**.
16.10	-	23.10	7.00	Very soft grey silty **CLAY**.
22.20 - 23.10	-	22.60 - 23.50	0.40	Soft dark grey **CLAY** with decomposing organic matter.
22.60 - 23.50	-	23.60 - >24.00	>0.50 - 1.00	Very dense grey slightly sandy **GRAVEL** with low cobble content.
23.60	-	24.10	>0.50	Possible **SANDSTONE** bedrock.

3.3 Groundwater

Groundwater information recorded during the site investigation period is summarised in **Table 3.2**.

Table 3.2 Groundwater Summary

Location	Depth (m)	Details
BH01	23.00	Fast inflow rising to 1.40m after 20 minutes
BH02	22.10	Fast inflow rising to 9.10m after 20 minutes
WS01	4.40	Slow inflow
WS02	4.36	Slow inflow
WS03	4.40	Slow inflow
WS04	4.44	Slow inflow

3.4 Installation Well Construction

Gas well locations were selected on a non-targeted basis to characterise the gas contamination status of the site. A regular triangular pattern was adopted.

Gas installation well construction details are summarised in **Table 3.3**.

Table 3.3 Installation Well Summary

Location	Response Zone		Stratum
	From (m)	To (m)	
WS01	1.00	4.00	Natural Soils
WS02	1.00	4.00	Natural Soils
WS03	1.00	4.00	Natural Soils

3.5 Laboratory Chemical Testing

3.5.1 Sampling Strategy

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

Sample locations, depths and suspected contamination source targets are summarised in **Table 3.4**:

Table 3.4 Sample Locations and Targets

Location	Depth (m)	Contamination Targets	Testing Suites
WS01	0.20	S1	SF1
WS01	1.20	S1	BRE SD1
WS02	0.30	S1	SF1
WS02	0.90	S1	BRE SD1
WS03	1.40	S1	BRE SD1
WS04	0.50	S1	SF1
WS04	1.10	S1	BRE SD1
BH01	0.30	S1	SF1
BH02	0.10	S1	SF1
BH02	0.60	S1	SF1
BH02	1.00	S1	BRE SD1

The laboratory test results certificates may be found in **Annex E**.

3.6 Soil Property Testing

3.6.1 In-situ Permeability Testing (Soakaways)

Soakaway test results are summarised in **Table 3.5**.

Table 3.5 Summary of Soakaway Results

Trial Pit	Depth Range of Test (m)	Geology Description	Infiltration Rate (ms^{-1})
WS01	1.00-2.00	Sand	$3.39x10^{-04}$
WS03	1.00-2.00	Sand	$3.13x10^{-04}$

The test results and calculation sheets may be found in **Annex D**.

3.6.2 Laboratory Geotechnical Testing

A schedule of laboratory tests was prepared by Terra Firma and samples were despatched to the accredited laboratories of Eurofins Chemtest. A summary of the testing carried out is presented in **Table 3.6**.

Table 3.6 Summary of Geotechnical Testing

Geotechnical Test	No. Samples Tested
BRE SD1 (Concrete classification)	5

The geotechnical test results are presented in **Annex E**.

SECTION 4 Evaluation of Geoenvironmental Analytical Results

4.1 Assessment Methodology

4.1.1 Soils

An assessment of the analytical results has been made with comparison with the following generic assessment criteria with preference in most onerous order:

- Land Quality Management (LQM) and the Chartered Institute of Environmental Health (CIEH) Suitable 4 Use Levels (S4UL) (Nathanail, CP *et al.*:2015);
- Soil Guideline Values (SGV) by the Environment Agency (2009);
- Generic Assessment Criteria (GAC) provided by EIC/AGS/CL:AIRE (2010); and
- Generic Assessment Criteria (GAC) derived in-house.

In the absence of generic assessment criteria, the laboratory limit of detection has been used for comparison, in order to establish the presence/absence of determinands and for initial screening purposes.

4.1.2 Controlled Waters

In the case of groundwater and/or leachate, analytical results have been compared with available published guidelines in the Water Framework Direction (Standards and Classification) Directions (England and Wales) 2015 and the Water Supply (Water Quality) Regulations 2016.

In the absence of any published guideline, a conservative threshold is suggested.

4.2 Soil Test Results

A summary of the chemical test results which include the regulatory soil guideline values used in a **residential setting with plant uptake** are given in the following tables. The complete results can be found in **Annex E**.

4.2.1 Inorganics

Six samples were tested for a standard suite of inorganics, pH and organic matter. The summarised results are in **Table 4.1**.

Table 4.1 Summary of Soil Chemical Test Results – Inorganics

Determinant	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Arsenic	37	LQM/CIEH	9.1	110	2
Cadmium	11	LQM/CIEH	<0.10	0.87	0
Chromium III	910	LQM/CIEH	6.5	390	0
Chromium VI	6	LQM/CIEH	<0.50	<0.50	0
Copper	2400	LQM/CIEH	2.9	1100	0
Lead	200	C4SL	4.8	180	0
Mercury (inorganic)	40	LQM/CIEH	<0.05	0.17	0
Nickel	180	LQM/CIEH	5.8	65	0
Selenium	250	LQM/CIEH	<0.25	0.39	0
Zinc	3700	LQM/CIEH	21	490	0
Cyanide	-	-	<0.50	<0.50	-
Boron	290	LQM/CIEH	<0.40	0.76	0
Organic Matter (%)	-	-	0.70	5.3	-
pH	-	-	8.2	9.6	-

Notes:
- No available guideline

4.2.2 Organics

Six samples were tested for speciated polycyclic aromatic hydrocarbons (PAH). The summarised results are in **Table 4.2**.

Table 4.2 Summary of Soil Chemical Test Results – Speciated PAH

Determinant	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Naphthalene	2.3	LQM/CIEH	<0.10	0.29	0
Acenaphthylene	170	LQM/CIEH	<0.10	<0.10	0
Acenaphthene	210	LQM/CIEH	<0.10	0.23	0
Fluorene	170	LQM/CIEH	<0.10	0.18	0
Phenanthrene	95	LQM/CIEH	<0.10	0.68	0
Anthracene	2400	LQM/CIEH	<0.10	<0.10	0
Fluoranthene	280	LQM/CIEH	<0.10	1.1	0
Pyrene	620	LQM/CIEH	<0.10	0.73	0
Benzo(a)anthracene	7.2	LQM/CIEH	<0.10	0.61	0
Chrysene	15	LQM/CIEH	<0.10	0.71	0
Benzo(b)fluoranthene	2.6	LQM/CIEH	<0.10	1.1	0
Benzo(k)fluoranthene	77	LQM/CIEH	<0.10	0.25	0
Benzo(a)pyrene	2.2	LQM/CIEH	<0.10	0.47	0
Indeno(123cd)pyrene	27	LQM/CIEH	<0.10	0.44	0
Dibenzo(ah)anthracene	0.24	LQM/CIEH	<0.10	<0.10	0
Benzo(ghi)perylene	320	LQM/CIEH	<0.10	0.52	0
Total PAH	-	-	<2.0	<2.0	-

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

Six samples were tested for petroleum hydrocarbon. The summarised results are shown in **Table 4.3**.

Table 4.3 Summary of Soil Chemical Test Results – Petroleum Hydrocarbons

Determinant	Threshold Value (mg/kg)	Source	Measured Concentrations (mg/kg)		Number of Exceedances
			Minimum	Maximum	
Aliphatic					
PH C5 – C6 Ali	42	LQM/CIEH	<0.05	<0.05	0
PH C6 – C7 Ali	100^	LQM/CIEH	<0.05	<0.05	
PH C7 – C8 Ali	100^	LQM/CIEH	<0.05	<0.05	0
PH C8 – C10 Ali	27	LQM/CIEH	<0.05	<0.05	0
PH C10 – C12 Ali	130	LQM/CIEH	<2.0	<2.0	0
PH C12 – C16 Ali	1100	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Ali	65000*	LQM/CIEH	<2.0	5.1	0
PH C21 – C35 Ali	65000*	LQM/CIEH	<3.0	3.2	0
PH C35 – C40 Ali	65000	LQM/CIEH	<10	<10	0
Aromatic					
PH C5 – C7 Arom	70	LQM/CIEH	<0.05	<0.05	0
PH C7 – C8 Arom	130	LQM/CIEH	<0.05	<0.05	0
PH C8 – C10 Arom	34	LQM/CIEH	<0.05	<0.05	0
PH C10 – C12 Arom	74	LQM/CIEH	<1.0	<1.0	0
PH C12 – C16 Arom	140	LQM/CIEH	<1.0	<1.0	0
PH C16 – C21 Arom	260	LQM/CIEH	2.9	17	0
PH C21 – C35 Arom	1100	LQM/CIEH	<2.0	35	0
PH C35 – C44 Arom	1100	LQM/CIEH	<1.0	250	0

Notes:
PH – Petroleum Hydrocarbon
Ali – Aliphatic
Arom – Aromatic
Thresholds based on 1.0% soil organic matter
* - Ali C16-21 and C21-C35 based on criteria for Ali EC >C16-C35
^ - Ali C6-7 and C7-C8 based on criteria for Ali EC >C6-C8

4.2.3 Asbestos Testing

All soil samples were scheduled for asbestos screening. Asbestos was not detected.

SECTION 5 Ground Gas Risk Assessment

The following detailed ground gas risk assessment is prepared with reference to information sources identified during the Tier 1 assessment, as well as encountered ground conditions and quantitative data obtained during subsequent phases of site investigation. Where possible, consideration has also been given to the proposed development and its potential influence on ground gas risk.

5.1 Gas Screening Value

Three ground gas monitoring wells were installed in WS01, WS02 and WS03. Installation details are shown on the relevant log.

One round of gas monitoring have been carried out to date. The installations were tested for carbon dioxide, methane, oxygen, carbon monoxide and hydrogen sulphide using a Gas Analyser GA5000.

Recorded gas concentrations are summarised in **Table 5.1**.

Table 5.1 Measured Gas Concentration Summary

Gas	Minimum (% V/V)	Maximum (% V/V)
Methane	0.0	0.0
Carbon Dioxide	0.2	0.4
Oxygen	20.2	20.7

Methane levels peaked at 0.0% V/V. Carbon dioxide levels varied between 0.2% and 0.4% V/V. Oxygen concentrations varied between 20.2% and 20.7% V/V.

The gas flow rate from the boreholes was also assessed, a maximum flow rate of 0.4l/hr was recorded.

Based on a flow rate of 0.4l/hr and the highest recorded carbon dioxide concentration of 0.4%, a gas screening value of 0.0016l/hr is calculated, as follows:

(0.4/100) x 0.4 = 0.0016l/hr

When monitoring results are compared with BS8576:2013, the site is classified as ‘gas characteristic situation 1’ (CS1).

Sites classified as CS1 require no special ground gas protection measures to be incorporated within the construction.

The monitoring results to date along with the gas analyser calibration certificate are presented in **Annex F**.

SECTION 6 Generic Quantitative Risk Assessment

6.1 Contaminants of Concern

Contaminants of concern identified as part of the investigation are summarised in **Table 6.1**, along with an interpretation of the likely contamination source. Where applicable, the contaminant, source relationship is based on the inferences made in the preliminary conceptual site model.

Table 6.1 Contaminants of Concern

Location	Depth	Contaminant	Source
WS02	0.30	Arsenic	S1 – Made ground
BH01	0.30	Arsenic	S1 – Made ground

6.2 Contaminant Linkages

Based on the findings of the intrusive site investigation and identified contaminants, the preliminary conceptual site model has been revised. Remaining contaminant linkages are tabulated in the refined conceptual site model **Table 6.2**. Identified contaminant linkages may require further investigation, detailed risk assessment and appropriate mitigation or remedial measures.

Table 6.2 Refined Conceptual Site Model

Source	Pathway	Receptor
Made ground	Plant uptake & consumption of home grown produce P2	Future site users R2
	Direct soil and dust ingestion P1 Dermal contact P3	Construction and maintenance workers R1
	Inhalation of dust and vapours P4 Inhalation of asbestos fibres P11	Future site users R2

6.3 Mitigation & Remedial Measures

The following sections outline the likely mitigation and remedial measures suitable for the identified contamination and proposed development. Detailed methodology to achieve the measures must be prescribed in a Remediation Strategy Report and the results presented in a Validation Report upon their completion.

6.3.1 Human Health

Elevated Arsenic was found in two of six samples tested. PBET testing on the arsenic to potentially derive a more conservative guideline for Arsenic can be undertaken, however due to the high concentration, 110mg/kg, it is unlikely that a guideline greater than this will be derived from PBET testing.

The identified contamination can be treated as a hotspot and to protect future site users the area of the hotspot must be excavated and removed. The contamination has been found in a discrete layer of made ground and it is therefore recommended that this layer is excavated and removed from site. The impacted layer was encountered in all exploratory locations and is identified as MADE GROUND: Medium dense black sandy GRAVEL with low cobble content at depths between 0.05m and 0.80m.

Once excavated and prior to disposal the soils must be stored in a controlled manner to prevent the spread of contamination to other areas of the site.

The excavation walls and base will require sampling to confirm that all the impacted material have been removed. If contaminated material remains the excavation must be extended and retested with the process repeated until the hotspot has been completely removed.

Once the impacted soils have been removed the excavation can be backfilled and the area reinstated.

To prevent delays the hotspot removal should be undertaken as early as possible in the construction program. For validation to be possible the excavation process must be over seen by a qualified engineering geologist who can document the works for including in a validation report.

Alternatively to protect future site users from the identified contamination a cover system will be required.

The cover system must consist of the proposed buildings and hard standings. In garden and soft landscaped areas, the system must consist of 600mm of a combination of chemically suitable topsoil, and subsoil. The imported soils must also be physically suitable as defined in BS8332:2015 (Ref) and BS8601:2013 (Ref), the specifications for topsoil and subsoil respectively. The soils must contain no ‘sharps’ and be free of construction debris.

Typically between 100mm and 300mm of topsoil is utilised with the remaining thickness provided by the subsoil for a total thickness of 600mm. The cover system must be designed to account for factors which could impact its effectiveness and may need to include capillary break or drainage layers. This must be detailed in the remediation strategy.

The imported soils will require chemical analysis to determine they are suitable for their intended use. The thickness of capping soil will require validation once placed in gardens/soft landscaped areas. Sufficient time should be allowed in the construction program to prevent delays.

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

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

For the specification of proposed new supply water pipes, the UK Water Industry Research publication ‘Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites, must be consulted.

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

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

6.3.1.1 Ground Gas/Radon

The Envirocheck report (Annex A) details that no radon protective measures are required for new developments constructed at ground level on the investigation site.

Sites classified as CS1 require no special ground gas protection measures to be incorporated within the construction.

6.3.2 Aquatic Environment

Leachate testing on arsenic is currently being undertaken, the report will be updated on receival of the results.

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

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

The basic measures that must be taken are as follows:

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

SECTION 7 Laboratory Geotechnical Testing Results Analysis

Laboratory geotechnical testing results are summarised in the following sections and presented in their entirety in **Annex E,** unless otherwise stated.

7.1 Soil Testing

7.1.1 Concrete Classification Testing

Six samples were subject to testing for concrete classification in accordance with BRE SD1:2015. The results are summarised in **Table 7.1**.

Table 7.1 BRE SD1 Testing Summary

Location	Depth (m)	2:1 Water/Soil Extract		Total Sulphur (%)	pH	Total Potential Sulphate (%)	Oxidisable Sulphides (%)
		SO_4 (mg/l)	Mg (mg/l)				
WS01	1.20	<10	<20	0.01	8.7	0.03	0.01
WS02	0.90	<10	<20	0.01	8.9	0.03	0.007
WS03	1.40	<10	<20	0.02	9.1	0.06	0.04
WS04	1.10	<10	<20	0.01	9.2	0.03	0.007
BH02	1.00	<10	<20	0.01	9.2	0.03	0.003

Notes:
The following stoichiometric equation was employed to determine the Total Potential Sulphate (TPS). TPS (% as SO4) = 3.0 x Total Sulphur (TS % as S).
The amount of Oxidisable Sulphides (OS as %SO4) has been conservatively calculated by the following equation. OS = TPS – Acid Soluble Sulphate (AS).

Based on results obtained, the characteristic values are provided below.

Sulphate (2:1 Water Soluble) as SO4: 10mg/l
pH: 8.7
Total Potential Sulphate (TPS): 0.06%

The initial classification for the site based on sulphate (2:1 Water Soluble) as SO4 is Design Sulphate (DS) Class DS-1. The Aggressive Chemical Environment for Concrete (ACEC) Class for the site based on sulphate (2:1 Water Soluble) as SO4, mobile water and pH is AC-1.

As the water-soluble sulphate/groundwater sulphate concentration is below 3000mg/l an additional consideration for the level of magnesium is not required.

Based on the above assessment the DS Class for the site is determined as DS-1, and the ACEC Class is AC-1.

SECTION 8 Engineering Recommendations

8.1 Preparation of Site

Prior to modification or demolition, the existing building must be subject to a refurbishment and demolition survey to identify any asbestos containing materials (ACM). Any deleterious materials must be removed by a suitably qualified person and disposed of at an appropriately licenced landfill. Precautions must be in place to prevent any contamination of the soils on site during the removal process.

Remaining structures, including foundations, and associated areas of hard standing over granular sub-base materials must be stripped and removed from beneath the proposed development area.

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

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

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

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

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

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

8.2 Foundation & Floor Slab Solution

The proposed development is likely to comprise the construction of a block of flats containing 22No residential dwellings of masonry/timber construction.

The ground investigation confirmed the ground conditions beneath the site to comprise medium dense sands between 1.20 and 2.00m depth below existing ground level.

In due consideration of the identified ground conditions, in-situ testing Terra Firma has undertaken an assessment of the net safe allowable bearing pressure (ABP) with the underlying soils to assist in the detailed design of foundations and infrastructure and to determine a suitable target stratum.

For smaller structures it is recommended that a combination of reinforced concrete strip and reinforced trench fill with reinforced concrete beam foundations be used; founded within the medium dense yellow sand at an approximate depth of 1.2 to 2.00m below the existing ground level. An allowable bearing pressure of 75kN/m^2 may be used for strips up to 900mm wide.

Foundations must sit at least 200mm within the founding horizon.

For the given foundation solutions and bearing pressure, maximum total settlements of <25mm should result with differential movements of the superstructure not exceeding 1:750.

Floor slabs should be designed as suspended.

For large building requiring a greater bearing pressure, it is recommended a CFA foundation solution founded within the very dense grey gravels at a depth of 22.60 - 23.50m below existing ground level is used. For a 300mm bored pile with a typical length of 23m an allowable working load of 300kN should be achieved.

Measurements should be put in place to monitor vibrations during pile installation. If vibrations exceed guideline levels, then measures should also be taken to dampen such vibrations. If, however, vibrations exceed permissible values then consideration should be given to an alternative solution.

The estimated working pile loads, pile type and lengths should be confirmed by a specialist piling contractor and it may be prudent to test drive/install piles at selected locations.

For the quoted pile sizes, founded within the competent in-situ materials, total settlements should not exceed 10mm with differential movements between adjacent piles being less than half this value.

Allowances should be made for the removal of any ‘soft spots’ and their replacement with well-compacted granular materials. Department for Transport (DfT) Type 2 materials or similar could be used and should be compacted in layers to the specification for Highway Works.

All foundation formations should be inspected by a suitably qualified Geotechnical Engineer before being concreted.

Floor slabs should be designed as suspended.

8.3 Excavations & Formations

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

Shallow perched water and groundwater flows were encountered during the investigation. Any water inflows together with rainwater infiltration should be dealt with by conventional pumping techniques. However, it should be noted that during times of heavy rainfall a higher water table will be encountered.

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

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

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

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

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

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

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

8.4 Protection of Buried Concrete

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

8.5 Storm Water Drainage

Falling head tests were carried out in WS01 and WS03 in general accordance with BS5930:2015. The tests were carried out by adding water to the borehole and timing the fall of the head of water.

The soakaway tests recorded relatively consistent infiltration across the site of between $3.39x10^{-04}$ ms^{-01} and $3.13x10^{-04}$ ms^{-01}. The use of soakaway stormwater drainage is therefore considered viable on site in the locations and depths tested.

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

ANNEX A
Envirocheck Report

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
373531279_1_1

Customer Reference:
TF-24-275

National Grid Reference:
274670, 189870

Slice:
A

Site Area (Ha):
0.21

Search Buffer (m):
1000

Site Details:

The Red Dragon, Moorland Road
PORT TALBOT
SA12 6JZ

Client Details:

Mr M Lake
TFW Group Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

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Introduction

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

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Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				8
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4			Yes	
Pollution Incidents to Controlled Waters	pg 4			4	8
Historical Prosecutions					
Registered Radioactive Substances	pg 6				5
Substantiated Pollution Incident Register	pg 7			1	2
Water Abstractions	pg 7				(*14)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 11				1
Water Framework Directive - Catchment	pg 11	Yes			
Water Framework Directive - Groundwater	pg 11	Yes			
Water Framework Directive - Surface Waters	pg 11			Yes	Yes

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 12				2
Local Authority Landfill Coverage	pg 12	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 12				1
Potentially Infilled Land (Non-Water)	pg 12		1		2
Potentially Infilled Land (Water)	pg 12				25
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 14				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 14				1
Planning Hazardous Substance Consents	pg 14				1
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 15	Yes		Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 16		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 17	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 18	Yes	n/a	n/a	n/a
Mining Instability	pg 18	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				n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				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 19			3	84
Fuel Station Entries	pg 27			1	1
Points of Interest - Commercial Services	pg 27			3	9
Points of Interest - Education and Health	pg 28				9
Points of Interest - Manufacturing and Production	pg 29				9
Points of Interest - Public Infrastructure	pg 29			4	6
Points of Interest - Recreational and Environmental	pg 30			5	4
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
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: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (S)	0	1	274667 189868
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	5	1	274667 189900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	105	1	274667 190000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	112	1	274600 189750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	259	1	274700 190150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	274	1	274400 190000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	280	1	274450 189650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	286	1	274400 189700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	291	1	274500 189600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	305	1	275000 189868
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	308	1	274350 189750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	313	1	275000 189950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	314	1	274550 189550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	316	1	274400 189650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	318	1	274450 189600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	327	1	275000 190000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	329	1	274350 189700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	335	1	274500 189550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	340	1	274667 189500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	356	1	274300 189750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	390	1	274250 189850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	469	1	275000 189500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Gasworks Sewer Junction Chamber Po, Chamber Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: BB4025503 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed **Status: Surrendered** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	963	2	275600 189550
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Gasworks Sewer Junction Chamber Po, Chamber Port Talbot Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb4025503 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	963	2	275600 189550
1	**Discharge Consents** Operator: Westbury Homes (Wales) Ltd Property Type: Domestic Property (Multiple) Location: Port Talbot Residentiol Development, Newbridge Road Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0105101 Permit Version: 2 Effective Date: 3rd November 1988 Issued Date: 3rd November 1988 Revocation Date: 29th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Afan **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A9NE (E)	981	2	275600 189500
1	**Discharge Consents** Operator: Westbury Homes (Wales) Ltd Property Type: Domestic Property (Multiple) Location: Port Talbot Residentiol Development, Newbridge Road Authority: Natural Resources Wales Catchment Area: River Afan Reference: Bp0105101 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 2nd November 1988 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Afan **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A9NE (E)	981	2	275600 189500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Cso 104, Newbridge Road Pumping Station, Off Victoria Road, Aberavon, Port Talbot, Sa12 6dg Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb4025501 Permit Version: Not Supplied Effective Date: 11th August 2022 Issued Date: 11th August 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: River Afan **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	978	2	275632 189598
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 104 Newbridge Road Pumping Stat, Newbridge Road Pumping Station, Port Talbot, Neath Port Talbot Cbc Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb4025501 Permit Version: 2 Effective Date: 1st April 2004 Issued Date: 31st March 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	978	2	275632 189598
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 104 Newbridge Road Pumping Stat, Newbridge Road Pumping Station, Port Talbot, Neath Port Talbot Cbc Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bb4025501 Permit Version: 2 Effective Date: 1st April 2004 Issued Date: 31st March 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	978	2	275632 189598
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: S'Dfields Sewer J'Ction Chambe Port, Port Talbot Authority: Natural Resources Wales Catchment Area: River Afan Reference: BB4025502 Permit Version: 1 Effective Date: 19th July 1978 Issued Date: 19th July 1978 Revocation Date: 31st March 2004 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	986	2	275510 189310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Local Authority Pollution Prevention and Controls** Name: Murco Petroleum Limited Location: Princes Margaret Way, PORT TALBOT, West Glamorgan, SA12 7PE Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/76 Dated: 26th February 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	411	3	274243 189960
	Nearest Surface Water Feature	A13SW (SW)	342	-	274378 189636
5	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: On High Tide Line, To Left Of Slipway Authority: Environment Agency, Welsh Region Pollutant: Industrial Solid Waste Note: Not Supplied Incident Date: 11th February 1997 Incident Reference: 31115 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	344	4	274300 189800
6	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Aberafon, PORT TALBOT Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Aberafan Beach; Natural Occurrence Incident Date: 5th June 1997 Incident Reference: 32508 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	393	4	274250 189900
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Natural Occurrence; Aberafan Beach Incident Date: 17th September 1998 Incident Reference: 36711 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	443	4	274200 189800
8	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Aberafon Beach Authority: Environment Agency, Welsh Region Pollutant: Rubbish Note: Not Supplied Incident Date: 16th October 1996 Incident Reference: 30237 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	445	4	274600 189400
9	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Coastguard, Building And Steps Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Inadequate Design/Capacity Incident Date: 21st November 1994 Incident Reference: 21791 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	558	4	274101 190001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 100 Yards From Bp End, Passes Maes Yr Coed House Club Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Natural Causes Incident Date: 11th June 1996 Incident Reference: 28680 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	654	4	274001 189996
10	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 100 Yards From Bp, End Past Afan, Lido Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Natural Causes Incident Date: 11th June 1996 Incident Reference: 28680 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	656	4	274001 190001
11	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Little Warren Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Deliberate Act Incident Date: 24th November 1994 Incident Reference: 21796 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	840	4	274700 189000
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Natural Occurrence; Aberafan Beach Incident Date: 21st August 1998 Incident Reference: 36565 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	906	4	273800 190200
13	**Pollution Incidents to Controlled Waters** Property Type: Building Sites Location: Old Gas Works, Site Victoria Road, Port Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Accidental Spillage/Leakage Incident Date: 14th March 1996 Incident Reference: 27548 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	A14SE (E)	922	4	275600 189700
14	**Pollution Incidents to Controlled Waters** Property Type: Bank Erosion Location: Aberafan East Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Natural Causes Incident Date: 8th May 1996 Incident Reference: 28280 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	942	4	274600 188900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Afan Sewage, Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 27th April 1995 Incident Reference: 23819 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)	965	4	275600 189545
16	**Registered Radioactive Substances** Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath Port Talbot Hospital, Afan Way, Port Talbot, West Glamorgan, Sa12 6nr Authority: Natural Resources Wales Permit Reference: Bt5377 Dated: 29th November 2002 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 variation** Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	658	2	275011 190457
17	**Registered Radioactive Substances** Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath Port Talbot Hospital, Afan Way, Port Talbot, West Glamorgan, Sa12 6nr Authority: Natural Resources Wales Permit Reference: Bw8917 Dated: 1st December 2003 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 variation** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	858	2	275298 190490
18	**Registered Radioactive Substances** Name: Abertawe Bro Morgannwg University Local Health Board Location: Neath Port Talbot Hospital,Baglen Way, PORT TALBOT, West Glamorgan, SA12 7BX Authority: Natural Resources Wales Permit Reference: CD9852 Dated: 23rd September 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Application has been authorised and any conditions apply to the operator** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	918	2	275402 190466
18	**Registered Radioactive Substances** Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath Port Talbot Hospital,Afan Way, PORT TALBOT, West Glamorgan, SA12 6NR Authority: Natural Resources Wales Permit Reference: CC9687 Dated: 29th October 2008 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 cancelled** Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	918	2	275402 190466
18	**Registered Radioactive Substances** Name: Abertawe Bro Morgannwg University Nhs Trust Location: Neath Port Talbot Hospital,Afan Way, PORT TALBOT, West Glamorgan, SA12 6NR Authority: Natural Resources Wales Permit Reference: CC9695 Dated: 29th October 2008 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation either revoked or cancelled** Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	918	2	275402 190466

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 16th December 2009 Incident Reference: 741055 Water Impact: Category 4 - No Impact Air Impact: Category 1 - Major Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A13SW (S)	264	2	274649 189577
20	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 26th March 2009 Incident Reference: 664863 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A18NE (NE)	753	2	275002 190567
21	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 4th January 2005 Incident Reference: 285528 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals/Products: Other Organic Chemical Or Product	A14SE (E)	803	2	275472 189676
	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: 101 Location: River Afan To Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1299	2	275980 189690
	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: 101 Location: River Afan To Port Talbot Docks Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1299	2	275980 189690
	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0009 Permit Version: 100 Location: River Afan To Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Afan To Port Talbot Docks Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	1299	4	275980 189690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/61/0009 Permit Version: 100 Location: River Afan To Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1299	4	275980 189685
	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: Not Supplied Location: Land At British Steel, Port Talbot Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 40914 Yearly Rate (m3): 14933610 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	A15SW (E)	1299	2	275980 189690
	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/61/0009 Permit Version: Not Supplied Location: Land At British Steel, Port Talbot Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 40914 Yearly Rate (m3): 14933610 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	A15SW (E)	1299	2	275980 189690
	Water Abstractions Operator: Environment Agency Licence Number: Wa/058/0061/007 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 0 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	A15SE (E)	1364	2	276054 189756

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 5 Location: Port Talbot Docks Port Talbot Authority: Natural Resources Wales Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1824	2	276230 188880
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 4 Location: Port Talbot Docks Port Talbot Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st May 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1824	4	276230 188880
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 4 Location: Port Talbot Docks Port Talbot Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Port Talbot Docks, Port Talbot Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st May 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1824	4	276230 188880
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: Not Supplied Location: Abstraction From Port Tallbot Dock Authority: Natural Resources Wales Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 49.68 Yearly Rate (m3): 8000 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	A10SE (SE)	1824	2	276230 188880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 3 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1844	4	276240 188860
	Water Abstractions Operator: Civil And Marine Ltd Licence Number: 21/58/61/0042 Permit Version: 2 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1844	4	276240 188860
	Water Abstractions Operator: Civil & Marine Slag Cement Ltd Licence Number: 21/58/61/0042 Permit Version: 1 Location: Civil & Marine Slag Cement Ltd Quay At Port Talbot Docks Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Civil & Marine Slag Cement Ltd Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1844	4	276240 188860
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: >10m Superficial Recharge: No Data	A13NW (S)	0	2	274667 189868
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (S)	0	2	274667 189868
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (S)	0	2	274667 189868
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
22	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 697.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Afan Catchment Name: Afan Primacy: 1	A9NE (SE)	968	5	275576 189476
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Baglan Brook - headwaters to conf with River Neath WaterBody ID: GB110058026350 Operational Catchment: Neath Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	A13NW (N)	0	2	274667 189890
	Water Framework Directive - Groundwater Waterbody Name: Swansea Carboniferous Coal Measures Waterbody ID: GB41002G201000 URL Address: Not Available Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2023	A13NW (S)	0	2	274667 189868
23	**Water Framework Directive - Surface Waters** Class Code: Coastal Waterbody Name: Swansea Bay Waterbody ID: GB641008260000 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: Moderate Classification Year: 2023	A13SW (SW)	327	2	274413 189620
24	**Water Framework Directive - Surface Waters** Class Code: Transitional Waterbody Name: Afan Estuary Incl Docks Waterbody ID: GB541005800600 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	A8SE (S)	778	2	274756 189066

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Licensed Waste Management Facilities (Locations)** Licence Number: EP3198FW Location: Baglan Way, Port Talbot, SA12 7BX Operator Name: Kier Facilities Services Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Station **Licence Status: Effective** Issued: 19th April 2023 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	A19SE (NE)	971	2	275501 190422
25	**Licensed Waste Management Facilities (Locations)** Licence Number: 34208 Location: Neath & Port Talbot Hospital, Baglan Way, Port Talbot, SA12 7BX Operator Name: Dalkia Utilities Services Plc Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Stations **Licence Status: Modified** Issued: 6th June 2003 Last Modified: 7th March 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	971	2	275501 190422
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	3	274667 189868
26	**Local Authority Recorded Landfill Sites** Location: Baglan Landfill (Hospital Site) 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: Located by supplier to within 100m Boundary Quality: Not Applicable	A19SE (NE)	876	3	275400 190400
27	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (NE)	106	-	274787 189934
28	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SW (E)	636	-	275285 189641
29	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8SE (S)	717	-	274941 189173
30	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A8SE (S)	699	-	274791 189151
31	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SW (NE)	737	-	275051 190525
32	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1952	A14SE (E)	738	-	275399 189657
33	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1884	A19SW (NE)	744	-	275073 190520
34	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SW (NE)	784	-	275115 190542

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A18NE (N)	817	-	274961 190653
36	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SE (NE)	824	-	275398 190312
37	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SE (S)	824	-	274912 189050
38	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1921	A18NE (N)	830	-	274956 190668
39	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1952	A18NE (N)	838	-	274980 190668
40	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SW (NE)	869	-	275341 190461
41	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	885	-	275265 190558
42	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SE (NE)	895	-	275484 190303
43	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18NE (N)	896	-	274943 190743
44	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	906	-	275182 190645
45	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	911	-	275226 190621
46	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18NE (N)	922	-	274823 190801
47	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	924	-	275144 190688
48	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A9NE (SE)	942	-	275553 189487
49	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	949	-	275227 190666
50	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A9NE (SE)	965	-	275574 189479
51	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	968	-	275057 190778
52	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NW (NE)	980	-	275059 190789
53	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A9NE (SE)	984	-	275532 189349
54	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19NE (NE)	992	-	275369 190608

Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	**Control of Major Accident Hazards Sites (COMAH)** Name: Transco Plc Location: Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA13 1PN Reference: Not Supplied Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned to the address or location	A14SE (E)	982	6	275655 189670
56	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: Transco Location: Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA13 1PN **Status: Not Active** Positional Accuracy: Unknown	A14SE (E)	989	6	275660 189662
57	**Planning Hazardous Substance Consents** Name: British Gas Plc Location: Wales, Aberavon Gas Works, Victoria Road, PORT TALBOT, West Glamorgan, SA12 6DB Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: P2013/0135 Hazardous Substance: Unknown at time of report Maximum Quantity: 61.8 Application date: 27th November 1992 **Decision: Application revoked or cancelledCancelled** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	977	7	275650 189670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (S)	0	1	274667 189868
	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	A13NW (S)	0	1	274667 189868
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	359	1	274384 189604
	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	A19SW (NE)	605	1	275186 190233
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: no data Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	732	1	274000 189500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: no data Cadmium Concentration: <1.8 mg/kg Chromium Concentration: no data Lead Concentration: <100 mg/kg Nickel Concentration: no data	A7NE (SW)	751	1	274066 189371
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: no data Cadmium Concentration: <1.8 mg/kg Chromium Concentration: no data Lead Concentration: <100 mg/kg Nickel Concentration: no data	A7NW (SW)	769	1	273958 189500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SE (S)	900	1	275000 189000
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274760, 189790 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 14.70 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 53.10 mg/kg Lead Measured Concentration: 113.80 mg/kg Nickel Measured Concentration: 26.10 mg/kg	A13SE (SE)	96	1	274760 189790
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274780, 190300 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 18.40 mg/kg Cadmium Measured Concentration: 0.90 mg/kg Chromium Measured Concentration: 62.90 mg/kg Lead Measured Concentration: 119.00 mg/kg Nickel Measured Concentration: 25.40 mg/kg	A18SE (N)	425	1	274780 190300
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274270, 190250 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 13.90 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 54.30 mg/kg Lead Measured Concentration: 295.70 mg/kg Nickel Measured Concentration: 21.20 mg/kg	A17SE (NW)	522	1	274270 190250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274750, 189270 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 23.70 mg/kg Cadmium Measured Concentration: 0.90 mg/kg Chromium Measured Concentration: 53.10 mg/kg Lead Measured Concentration: 158.60 mg/kg Nickel Measured Concentration: 22.50 mg/kg	A8NE (S)	575	1	274750 189270

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: 275210, 190210 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 81.40 mg/kg Lead Measured Concentration: 41.50 mg/kg Nickel Measured Concentration: 16.80 mg/kg	A19SW (NE)	611	1	275210 190210
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274730, 190770 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 35.40 mg/kg Cadmium Measured Concentration: 1.30 mg/kg Chromium Measured Concentration: 78.60 mg/kg Lead Measured Concentration: 234.60 mg/kg Nickel Measured Concentration: 37.10 mg/kg	A18NE (N)	878	1	274730 190770
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 274220, 190760 Soil Sample Type: Topsoil Sample Area: Swansea Arsenic Measured Concentration: 19.60 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 67.70 mg/kg Lead Measured Concentration: 179.50 mg/kg Nickel Measured Concentration: 24.00 mg/kg	A17NE (NW)	967	1	274220 190760
	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	A13NW (S)	0	1	274667 189868

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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.	A13NW (S)	0	8	274667 189868
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (S)	0	-	274667 189868
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	274667 189868
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	105	1	274667 190000
	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	A13NW (S)	0	1	274667 189868
	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	A13NW (S)	0	1	274667 189868

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**Contemporary Trade Directory Entries** Name: Texaco Location: Princess Margaret Way, Port Talbot, West Glamorgan, SA12 7PE Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	409	-	274245 189958
58	**Contemporary Trade Directory Entries** Name: Murco Service Station Location: Princes Margaret Way, Port Talbot, SA12 7PE Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	412	-	274242 189961
59	**Contemporary Trade Directory Entries** Name: Theatre Quest Location: 4, Morrison Road, Port Talbot, West Glamorgan, SA12 6TG Classification: Hi-Fi Equipment Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	497	-	274782 190375
60	**Contemporary Trade Directory Entries** Name: Port Talbot General Hospital Location: Hospital Road, Port Talbot, West Glamorgan, SA12 6PD Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	553	-	275247 189915
60	**Contemporary Trade Directory Entries** Name: Port Talbot General Hospital Location: Hospital Road, Port Talbot, West Glamorgan, SA12 6PD Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	553	-	275247 189915
61	**Contemporary Trade Directory Entries** Name: Generation Plastering Building Location: Home, Port Talbot, West Glamorgan, sa12 6tq Classification: Builders' Tools & Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	596	-	274740 190485
62	**Contemporary Trade Directory Entries** Name: Dale Electronics Location: 63, Vivian Park Drive, Port Talbot, West Glamorgan, SA12 6RP Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	599	-	274823 190469
63	**Contemporary Trade Directory Entries** Name: Cymru Industrial Supplies Ltd Location: Unit 47 Port Talbot Business Units,Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Engineering Materials **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	602	-	275288 189986
64	**Contemporary Trade Directory Entries** Name: S P K Enterprises Location: 43, Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Sports Equipment Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	613	-	275301 189975
64	**Contemporary Trade Directory Entries** Name: Carver Metals Location: B S C Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Jewellery Manufacturers & Repairers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	648	-	275339 189956
65	**Contemporary Trade Directory Entries** Name: Mydentist Victoria Road Port Talbot Location: 44, VICTORIA ROAD, SANDFIELDS, SA12 6AD Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	627	-	275252 189584

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	**Contemporary Trade Directory Entries** Name: Cando Laundry Services Location: Unit 2, Addison Road, Port Talbot, SA12 6HZ Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	632	-	275312 190019
66	**Contemporary Trade Directory Entries** Name: Can Do Laundry Location: UNIT 2, ADDISON ROAD, PORT TALBOT, SA12 6HZ Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	632	-	275312 190019
66	**Contemporary Trade Directory Entries** Name: Select Joinery Manufacturers Location: Unit 1 B S I Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	635	-	275324 189970
66	**Contemporary Trade Directory Entries** Name: K90 Raw & Hydro Location: Unit 24, Port Talbot Workshops, Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	653	-	275338 189994
66	**Contemporary Trade Directory Entries** Name: Etyres - T Lang & Sons Ltd Location: Unit 3, Port Talbot, West Glamorgan, SA12 6HZ Classification: Tyre Dealers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	658	-	275331 190051
66	**Contemporary Trade Directory Entries** Name: S & E Engineering Location: Unit 27, Port Talbot Workshops, Addison Road, Port Talbot, SA12 6HZ Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	662	-	275350 189980
66	**Contemporary Trade Directory Entries** Name: Andreas H A A F Printers Location: Unit 18, Port Talbot Workshops, Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	664	-	275347 190008
66	**Contemporary Trade Directory Entries** Name: Special Moments Ltd Location: Unit 19, Port Talbot Workshops, Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Greeting Card Publishers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	677	-	275364 189985
66	**Contemporary Trade Directory Entries** Name: Test Fixture Supplies Location: Unit 16 Port Talbot Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Electronic Component Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	682	-	275370 189982
66	**Contemporary Trade Directory Entries** Name: Copier Exchange Location: Unit 20,Addison Rd Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Photocopiers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	690	-	275378 189982
66	**Contemporary Trade Directory Entries** Name: Green In Mind Location: Unit 20, Port Talbot Workshops, Addison Road, PORT TALBOT, West Glamorgan, SA12 6HZ Classification: Furniture - Repairing & Restoring **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	691	-	275378 189982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	**Contemporary Trade Directory Entries** Name: Pyramid Manufacturing Location: Unit 5,Port Talbot Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	695	-	275378 190008
66	**Contemporary Trade Directory Entries** Name: Leo Assemblies Location: Unit 5, Port Talbot Workshops, Addison Road, PORT TALBOT, West Glamorgan, SA12 6HZ Classification: Transformer Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	695	-	275378 190009
67	**Contemporary Trade Directory Entries** Name: T Lang & Sons Ltd Location: Unit 3, Addison Road, Port Talbot, SA12 6HZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	656	-	275327 190057
67	**Contemporary Trade Directory Entries** Name: Fairfield Garage Location: Graham Davies House, Addison Road, Port Talbot, SA12 6HZ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	656	-	275327 190057
68	**Contemporary Trade Directory Entries** Name: D J Engineering Location: B S C Workshops,Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Engineers - General **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	666	-	275359 189932
68	**Contemporary Trade Directory Entries** Name: E S Cleaning Services Location: 32, Maesgwyn Street, Port Talbot, West Glamorgan, SA12 6PF Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	677	-	275372 189892
68	**Contemporary Trade Directory Entries** Name: Active Automation Services Ltd Location: Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	681	-	275376 189904
68	**Contemporary Trade Directory Entries** Name: T Lang & Sons Aberavon Ltd Location: 29, Maesgwyn Street, Port Talbot, West Glamorgan, SA12 6PF Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	690	-	275385 189869
68	**Contemporary Trade Directory Entries** Name: All Seasons Manufacturing Ltd Location: Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	701	-	275396 189872
69	**Contemporary Trade Directory Entries** Name: Endless Green Group Ltd Location: UNIT 52, PORT TALBOT WORKSHOPS, ADDISON ROAD, SANDFIELDS, SA12 6HZ Classification: French Polishing **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	697	-	275387 189965
69	**Contemporary Trade Directory Entries** Name: Sparks Fire Protection Ltd Location: Unit 41, Port Talbot Workshops, Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	700	-	275392 189954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**Contemporary Trade Directory Entries** Name: Kindrace Ltd Location: Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Transformer Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	706	-	275394 189987
69	**Contemporary Trade Directory Entries** Name: Sparks F P Ltd Location: Unit 9, Port Talbot Workshops, Addison Road, Port Talbot, SA12 6HZ Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	708	-	275395 189989
70	**Contemporary Trade Directory Entries** Name: Greenwood Plant Services Ltd Location: Addison Rd, Port Talbot, West Glamorgan, SA12 6HZ Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	732	-	275425 189824
71	**Contemporary Trade Directory Entries** Name: M H M Plant Location: Unit 3, Aberavon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Generators - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	738	-	275065 190519
71	**Contemporary Trade Directory Entries** Name: M H M Group Ltd Location: UNIT 3, BAGLAN INDUSTRIAL PARK, ABERAVON ROAD, ABERAVON, SA12 7DJ Classification: Generators - Sales & Service **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	738	-	275065 190519
72	**Contemporary Trade Directory Entries** Name: Stand Banner Location: Unit 46, Port Talbot Workshops, Addison Road, Port Talbot, SA12 6HZ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	738	-	275430 189947
72	**Contemporary Trade Directory Entries** Name: Cymru Industrial Supplies Ltd Location: Unit 47, Port Talbot Workshops, Addison Road, Port Talbot, SA12 6HZ Classification: Hose, Tubing & Fittings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	743	-	275436 189941
72	**Contemporary Trade Directory Entries** Name: Just M O T Location: Unit 48 Port Talbot Workshops,Addison Road, Port Talbot, West Glamorgan, SA12 6HZ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	749	-	275442 189935
72	**Contemporary Trade Directory Entries** Name: Paul'S M O T Centre Location: Unit 48, Port Talbot Workshops, Addison Road, Sandfields, SA12 6HZ Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	749	-	275442 189935
73	**Contemporary Trade Directory Entries** Name: The Princess Of Wales Hospital Location: Site Office, Neath Port Talbot Hospital, Baglan Way, Aberavon, SA12 7BX Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	744	-	275294 190321
74	**Contemporary Trade Directory Entries** Name: S A 12 Ironing Location: 13, Mariners Quay, Port Talbot, West Glamorgan, SA12 6AN Classification: Ironing & Home Laundry Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	751	-	274873 189115

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**Contemporary Trade Directory Entries** Name: A Class Caravan Services Location: 10, Stair Street, Port Talbot, West Glamorgan, SA12 6BJ Classification: Caravans - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	754	-	275435 190028
75	**Contemporary Trade Directory Entries** Name: Akins Garage & Autocare Location: Frederick Street, Port Talbot, West Glamorgan, SA12 6BX Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	788	-	275474 190002
76	**Contemporary Trade Directory Entries** Name: Afan Tyre Discount Centre Ltd Location: Aberavon Gas Works Estate, Victoria Road, Port Talbot, West Glamorgan, SA12 6DB Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	761	-	275429 189678
76	**Contemporary Trade Directory Entries** Name: Filtration & Separation Ltd Location: Unit 9, Aberavon Gas Works Estate, Victoria Road, Port Talbot, West Glamorgan, SA12 6DB Classification: Filter Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A14SE (E)	803	-	275472 189676
77	**Contemporary Trade Directory Entries** Name: Puncture- Shield Location: 2, Webb Place, Port Talbot, West Glamorgan, SA12 6AG Classification: Tyre Repairs & Retreading **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	800	-	275341 189392
78	**Contemporary Trade Directory Entries** Name: Quay Engineering Service Ltd Location: 4, Sitwell Way, Port Talbot, West Glamorgan, SA12 6BL Classification: Metal Products - Fabricated **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	809	-	275252 189270
79	**Contemporary Trade Directory Entries** Name: Talbot Flyers Location: 5, Station Terrace, Port Talbot, West Glamorgan, SA12 6BZ Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	810	-	275503 189948
80	**Contemporary Trade Directory Entries** Name: Direct Stationery M F G Ltd Location: Acacia Avenue, Port Talbot, West Glamorgan, SA12 7DP Classification: Stationery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	821	-	274711 190714
81	**Contemporary Trade Directory Entries** Name: J D Marine & Sons Location: 58, Mariners Quay, Port Talbot, SA12 6AN Classification: Marine Engineering Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	840	-	275021 189074
82	**Contemporary Trade Directory Entries** Name: Chroma Domestic Cleaning Services Location: 22, Sitwell Way, Port Talbot, SA12 6BL Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	844	-	275204 189181
83	**Contemporary Trade Directory Entries** Name: Isotemp (Ductwork) Ltd Location: Baglan Way, Baglan Ind Pk, Port Talbot, West Glamorgan, SA12 7BY Classification: Ventilators & Ventilation Systems **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19NW (NE)	846	-	275036 190654

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	**Contemporary Trade Directory Entries** Name: Bartlett Engineering S W Ltd Location: Unit 7, Aberavon Road, Baglan Industrial Park, PORT TALBOT, West Glamorgan, SA12 7DJ Classification: Engineers - General **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	874	-	275095 190657
85	**Contemporary Trade Directory Entries** Name: Componant Print Ltd Location: Unit 15, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Screen Process Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	887	-	274966 190725
85	**Contemporary Trade Directory Entries** Name: Components Finishers Ltd Location: Unit 15, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Spraying - Paint & Coatings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	887	-	274966 190725
86	**Contemporary Trade Directory Entries** Name: Scrap Yard In Port Tolbot Htt Location: Unit 30, Port Talbot, West Glamorgan, sa12 7dj Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	910	-	274984 190743
86	**Contemporary Trade Directory Entries** Name: Cam Engineering Location: Unit 17, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Machine Tools - Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	910	-	274984 190743
86	**Contemporary Trade Directory Entries** Name: Howdens Joinery Co Location: Unit 17, Aberavon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	910	-	274984 190743
86	**Contemporary Trade Directory Entries** Name: M H M Location: Unit 3,Aberavon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Power Transmission Equipment **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19NW (N)	947	-	275024 190768
86	**Contemporary Trade Directory Entries** Name: Vizor Tempered Glass Ltd Location: Unit 21, Baglan Way, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7BY Classification: Glass Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (N)	947	-	275024 190768
87	**Contemporary Trade Directory Entries** Name: Jenncott Shoulder Padding Co Location: Unit 26/27, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Clothing Accessory Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	910	-	274909 190768
87	**Contemporary Trade Directory Entries** Name: N D Printing Ltd Location: Unit 26, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	926	-	274921 190781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Contemporary Trade Directory Entries** Name: Pugh Colour Printers Ltd Location: Unit 26, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	926	-	274921 190781
87	**Contemporary Trade Directory Entries** Name: Plexus Lpg Conversions Location: Unit 26, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	926	-	274921 190781
87	**Contemporary Trade Directory Entries** Name: Lifting Gear & Safety Location: Unit 26, Aberavon Road, Baglan Industrial Park, Port Talbot, SA12 7DJ Classification: Lifting Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	926	-	274921 190781
87	**Contemporary Trade Directory Entries** Name: D H Logistics Services Ltd Location: Unit 25, Aberavon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Car Component Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	943	-	274935 190795
87	**Contemporary Trade Directory Entries** Name: Screwfix Port Talbot Location: UNIT 24, BAGLAN INDUSTRIAL PARK, ABERAVON ROAD, ABERAVON, SA12 7DJ Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	957	-	274945 190806
87	**Contemporary Trade Directory Entries** Name: Component Print Ltd Location: Unit 24, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	957	-	274947 190806
88	**Contemporary Trade Directory Entries** Name: Neath General Hospital Location: Baglan Way, Port Talbot, West Glamorgan, SA12 7BX Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	918	-	275402 190466
88	**Contemporary Trade Directory Entries** Name: Neath General Hospital Location: BAGLAN WAY, ABERAVON, SA12 7BX Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	918	-	275402 190466
88	**Contemporary Trade Directory Entries** Name: Neath General Hospital Location: Baglan Way, Port Talbot, West Glamorgan, SA12 7BX Classification: Hospitals **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	918	-	275402 190466
89	**Contemporary Trade Directory Entries** Name: Halfords Store Port Talbot Location: UNIT 2, BAGLAN BAY RETAIL PARK, CHRISTCHURCH ROAD, ABERAVON, SA12 7BZ Classification: Cycle Accessories, Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	955	-	274787 190840
90	**Contemporary Trade Directory Entries** Name: Power Clean Services Location: 86, Southdown Road, Port Talbot, West Glamorgan, SA12 7HS Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	956	-	274360 190805

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	**Contemporary Trade Directory Entries** Name: Boat Bits Location: 1, Glyn Street, Port Talbot, West Glamorgan, SA12 6NF Classification: Chandlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	959	-	275654 189850
91	**Contemporary Trade Directory Entries** Name: Celtic Leather & Fabric Upholstery Ltd Location: 1, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	991	-	275685 189843
91	**Contemporary Trade Directory Entries** Name: Universal Heat Transfer Ltd Location: 3, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Heat Exchangers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	993	-	275687 189837
91	**Contemporary Trade Directory Entries** Name: Port Talbot Exhaust & Service Centre Location: 5, Henshaw Street, Port Talbot, West Glamorgan, SA12 6NH Classification: Exhaust & Shock Absorber Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (E)	994	-	275688 189831
92	**Contemporary Trade Directory Entries** Name: Volac International Location: Unit 12, Aberafon Road, Baglan Industrial Park, Port Talbot, West Glamorgan, SA12 7DJ Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	961	-	275136 190734
93	**Contemporary Trade Directory Entries** Name: Car & Van Value Location: Acacia Av, Port Talbot, West Glamorgan, SA12 7DP Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	970	-	274558 190860
94	**Contemporary Trade Directory Entries** Name: Hitachi Construction Machinery (Uk) Location: UNIT 23, BAGLAN INDUSTRIAL PARK, ABERAVON ROAD, ABERAVON, SA12 7DJ Classification: Machinery - Industrial & Commercial **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	970	-	274960 190815
95	**Contemporary Trade Directory Entries** Name: Fairfield Garage Location: 63, Sandfields Road, Port Talbot, West Glamorgan, SA12 6LR Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	971	-	275642 190096
96	**Contemporary Trade Directory Entries** Name: Afan Vale Sandwich Fillings Ltd Location: Unit 30 Baglan Way, Baglan Ind Pk, Port Talbot, West Glamorgan, SA12 7BY Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	974	-	274892 190839
96	**Contemporary Trade Directory Entries** Name: K E Supplies Location: Unit 31, Aberavon Road, Baglan Industrial Park, Port Talbot, SA12 7DJ Classification: Cleaning Materials & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	992	-	274908 190853
97	**Contemporary Trade Directory Entries** Name: A Cochlin & Co Location: 98, Southdown Road, Port Talbot, West Glamorgan, SA12 7HS Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	995	-	274380 190852

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**Fuel Station Entries** Name: Mfg Port Talbot Location: Princess Margaret Way , Aberavon , Port Talbot, Neath Port Talbot, SA12 7PE Brand: Texaco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	411	-	274243 189960
99	**Fuel Station Entries** Name: Fairfield Garage Proteus Location: 63, Sandifields Road , , Port Talbot, Neath Port Talbot, SA12 6LR Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A14NE (E)	971	-	275642 190096
100	**Points of Interest - Commercial Services** Name: Seabourne Transport Ltd Location: 63 Sandown Road, Port Talbot, SA12 6PT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (E)	257	9	274948 189927
101	**Points of Interest - Commercial Services** Name: Mfg Port Talbot Location: Princess Margaret Way, Aberavon, Port Talbot, SA12 7PE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (W)	411	9	274243 189960
101	**Points of Interest - Commercial Services** Name: Car Wash Location: Princess Margaret Way, Aberavon, Port Talbot, West Glamorgan, SA12 7PE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12NE (W)	411	9	274243 189960
102	**Points of Interest - Commercial Services** Name: Fairfield Garage Location: Graham Davies House, Addison Road, Port Talbot, SA12 6HZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	652	9	275326 190046
102	**Points of Interest - Commercial Services** Name: T Lang & Sons Ltd Location: Unit 3, Addison Road, Port Talbot, SA12 6HZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	656	9	275327 190057
102	**Points of Interest - Commercial Services** Name: T Lang & Sons Ltd T/A Fairfield Garage Location: Unit 3, Addison Road, Port Talbot, SA12 6HZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	689	9	275371 190016
103	**Points of Interest - Commercial Services** Name: T Lang & Sons Aberavon Ltd Location: 29 Maesgwyn Street, Port Talbot, SA12 6PF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	690	9	275385 189869
103	**Points of Interest - Commercial Services** Name: Just M O T Location: Unit 48, Port Talbot Workshops, Addison Road, Sandfields, SA12 6HZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	749	9	275442 189935
103	**Points of Interest - Commercial Services** Name: Paul's M O T Centre Location: Unit 48 Port Talbot Workshops, Addison Road, Port Talbot, SA12 6HZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	749	9	275442 189935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	**Points of Interest - Commercial Services** Name: Akins Garage & Autocare Location: Frederick Street, Port Talbot, SA12 6BX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	788	9	275474 190002
103	**Points of Interest - Commercial Services** Name: Talbot Flyers Location: 5 Station Terrace, Port Talbot, SA12 6BZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NE (E)	809	9	275502 189947
104	**Points of Interest - Commercial Services** Name: Fairfield Garage Location: 63 Sandfields Road, Port Talbot, SA12 6LR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	971	9	275642 190096
105	**Points of Interest - Education and Health** Name: Port Talbot General Hospital Location: Hospital Road, Port Talbot, SA12 6PD Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (E)	553	9	275247 189915
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Aberavon, SA12 7BX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SE (NE)	918	9	275402 190466
106	**Points of Interest - Education and Health** Name: Groeswen Hospital Location: Margam Road, Port Talbot, SA4 2LH Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SE (NE)	924	9	275395 190484
106	**Points of Interest - Education and Health** Name: Neath Port Talbot Hospital Location: Baglan Way, Port Talbot, SA12 7BX Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A19NE (NE)	976	9	275411 190544

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	**Points of Interest - Manufacturing and Production** Name: Port Talbot Workshops Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	710	9	275403 189943
108	**Points of Interest - Manufacturing and Production** Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	831	9	274736 190722
108	**Points of Interest - Manufacturing and Production** Name: Factory Location: SA12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A18NE (N)	837	9	274743 190727
109	**Points of Interest - Manufacturing and Production** Name: Tank Location: SA12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	844	9	275531 189761
109	**Points of Interest - Manufacturing and Production** Name: Power Station Location: SA12 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	887	9	275565 189704
110	**Points of Interest - Manufacturing and Production** Name: Factory Location: SA12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	845	9	275156 190588
111	**Points of Interest - Manufacturing and Production** Name: Factory Location: SA12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	935	9	275182 190678
111	**Points of Interest - Manufacturing and Production** Name: Factory Location: SA12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	962	9	275132 190737
111	**Points of Interest - Manufacturing and Production** Name: Industrial Park Location: SA12 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	980	9	275138 190754
112	**Points of Interest - Public Infrastructure** Name: Murco Service Station Location: Princes Margaret Way, Port Talbot, SA12 7PE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	407	9	274245 189952
112	**Points of Interest - Public Infrastructure** Name: Texaco Location: Petrol Filling Station, Western Avenue, Sandfields, SA12 7PE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	407	9	274245 189951
112	**Points of Interest - Public Infrastructure** Name: Port Talbot Murco Service Station Location: Princess Margaret Way, Aberavon, Port Talbot, West Glamorgan, SA12 7PE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	411	9	274243 189960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	**Points of Interest - Public Infrastructure** Name: Port Talbot Murco Service Station Location: Princes Margaret Way, Port Talbot, SA12 7PE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	413	9	274242 189965
113	**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	A14NW (E)	553	9	275239 189981
114	**Points of Interest - Public Infrastructure** Name: Sandfields Police Station Location: Dew Road, Port Talbot, West Glamorgan, SA12 7HE Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A18NW (N)	705	9	274421 190561
114	**Points of Interest - Public Infrastructure** Name: Sandfields Police Station Location: Dew Road, Sandfields, Port Talbot, SA12 7HE Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A18NW (N)	706	9	274420 190562
115	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	971	9	275607 189547
115	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	982	9	275635 189593
115	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	986	9	275639 189593
116	**Points of Interest - Recreational and Environmental** Name: Playground Location: Seaward Avenue (Rhodfa Tuar Mor), SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (NW)	285	9	274387 189997
116	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	287	9	274382 189991
117	**Points of Interest - Recreational and Environmental** Name: Playground Location: Sandown Road (Heol Sandown), SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (E)	294	9	274978 189962
117	**Points of Interest - Recreational and Environmental** Name: Playground Location: Sandown Road (Heol Sandown), SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (E)	294	9	274978 189960
117	**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	A14NW (E)	327	9	275011 189965

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	**Points of Interest - Recreational and Environmental** Name: Play Area Location: SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	703	9	273988 190123
118	**Points of Interest - Recreational and Environmental** Name: Play Area Location: SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (NW)	772	9	273938 190187
119	**Points of Interest - Recreational and Environmental** Name: Skateboard Park Location: The Princess Margaret Way (Ffordd Y Dywysoges Margared), SA12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A17SW (NW)	860	9	273868 190247
120	**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	A9NE (SE)	888	9	275386 189304

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	November 2023	Annually
Neath Port Talbot County Borough Council - Environmental Health Department	October 2017	Annual Rolling Update
City and County of Swansea - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	January 2025	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Natural Resources Wales	January 2025	Quarterly
Environment Agency - Welsh Region	July 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Swansea Bay Port Health Authority	April 2014	Variable
City and County of Swansea - Environmental Health Department	December 2020	Variable
Neath Port Talbot County Borough Council - Environmental Health Department	March 2014	Variable
Local Authority Pollution Prevention and Controls		
Swansea Bay Port Health Authority	April 2014	Annually
City and County of Swansea - Environmental Health Department	December 2020	Annual Rolling Update
Neath Port Talbot County Borough Council - Environmental Health Department	March 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Swansea Bay Port Health Authority	April 2014	Variable
City and County of Swansea - Environmental Health Department	June 2014	Variable
Neath Port Talbot County Borough Council - Environmental Health Department	March 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2025	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Historical Prosecutions		
Environment Agency, Welsh Region	March 2013	Not Applicable
Natural Resources Wales	March 2013	Not Applicable
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Natural Resources Wales	December 2024	Quarterly
Environment Agency Wales - South West Area	January 2021	Quarterly
Water Abstractions		
Natural Resources Wales	February 2025	Quarterly
Environment Agency - Welsh Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified

Data Currency

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	
OS Water Network Lines Ordnance Survey	January 2025	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Natural Resources Wales	July 2024	Annually
Water Framework Directive - Groundwater Natural Resources Wales	July 2024	Annually
Water Framework Directive - Surface Waters Natural Resources Wales	November 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	August 2024	Quarterly
Environment Agency Wales - South West Area	January 2023	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	January 2025	Quarterly
Environment Agency Wales - South West Area	July 2024	Quarterly
Local Authority Landfill Coverage		
City and County of Swansea - Environmental Health Department	February 2003	Not Applicable
Neath Port Talbot County Borough Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
City and County of Swansea - Environmental Health Department	October 2018	
Neath Port Talbot County Borough Council - Environmental Health Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
City and County of Swansea - Planning Department	June 2023	Variable
Neath Port Talbot County Borough Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
City and County of Swansea - Planning Department	January 2016	Variable
Neath Port Talbot County Borough Council - Planning Department	October 2015	Variable

Data Currency

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	December 2024	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	December 2024	Quarterly
Points of Interest - Commercial Services PointX	March 2025	Quarterly
Points of Interest - Education and Health PointX	March 2025	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2025	Quarterly
Points of Interest - Public Infrastructure PointX	March 2025	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2025	Quarterly
Underground Electrical Cables National Grid	January 2024	

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	October 2024	Bi-Annually
Areas of Adopted Green Belt		
City and County of Swansea	July 2024	Quarterly
Neath Port Talbot County Borough Council - Planning Services	July 2024	Quarterly
Areas of Unadopted Green Belt		
City and County of Swansea	July 2024	Quarterly
Neath Port Talbot County Borough Council - Planning Services	July 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	November 2024	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
City and County of Swansea	February 2025	Bi-Annually
Neath Port Talbot County Borough Council	February 2025	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	February 2025	Bi-Annually
National Nature Reserves		
Natural Resources Wales	January 2025	Bi-Annually
National Parks		
Natural Resources Wales	September 2024	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	November 2024	Annually
Ramsar Sites		
Natural Resources Wales	February 2025	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	November 2024	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	February 2025	Bi-Annually
Special Protection Areas		
Natural Resources Wales	November 2024	Bi-Annually

Data Suppliers

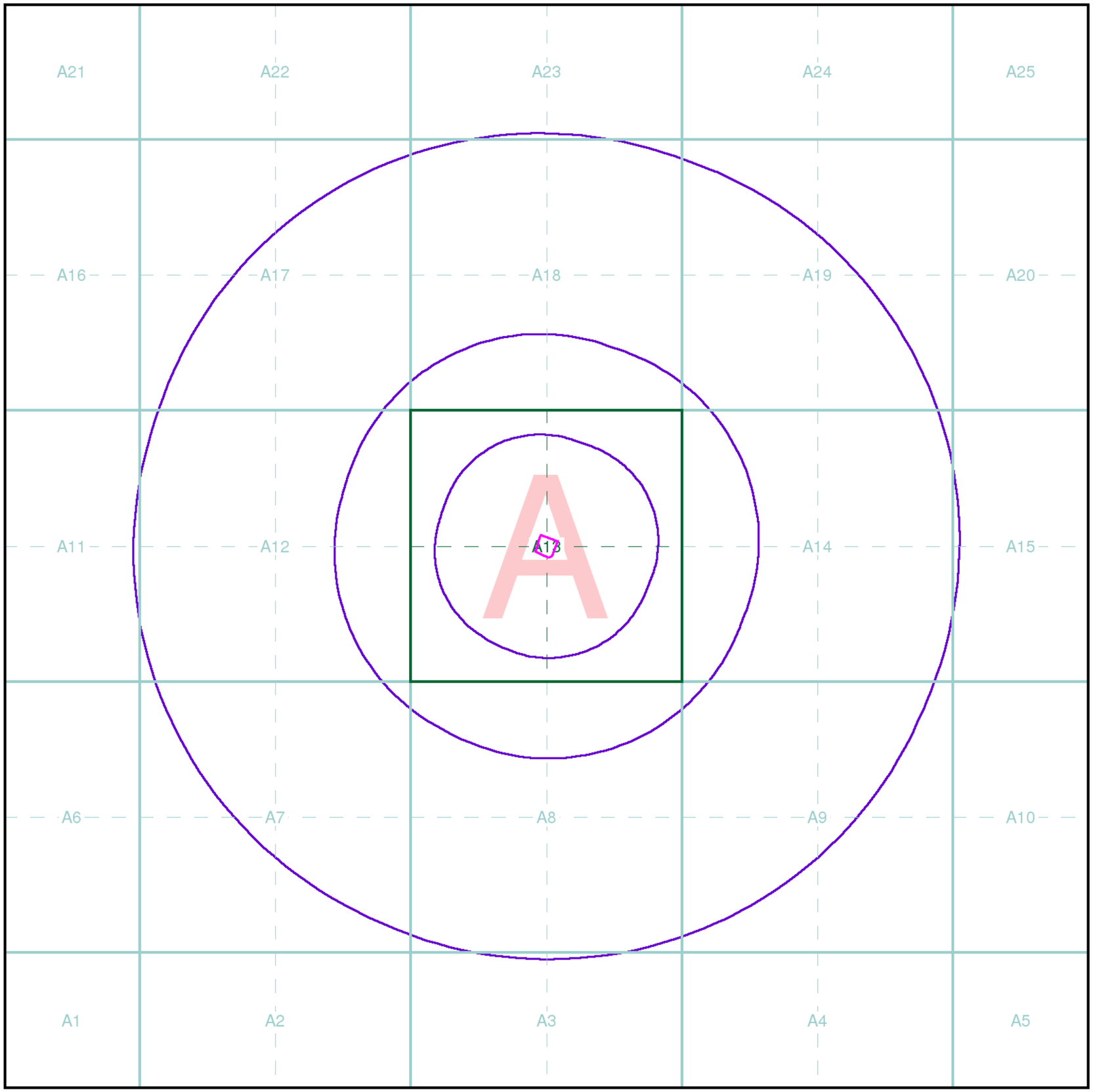
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**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
4	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
6	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	**Neath Port Talbot County Borough Council - Planning Department** Port Talbot Civic Centre, Port Talbot, SA13 1PJ	Telephone: 01639 763333 Fax: 01639 763444 Website: www.neath-porttalbot.gov.uk
8	**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
9	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.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** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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Index Map

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

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

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

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

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Cyfoeth Naturiol Cymru
Natural Resources Wales

Envirocheck reports are compiled from 136 different sources of data.

Client Details
Mr M Lake, TFW Group Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details

Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Site Area (Ha):	0.21
Search Buffer (m):	1000

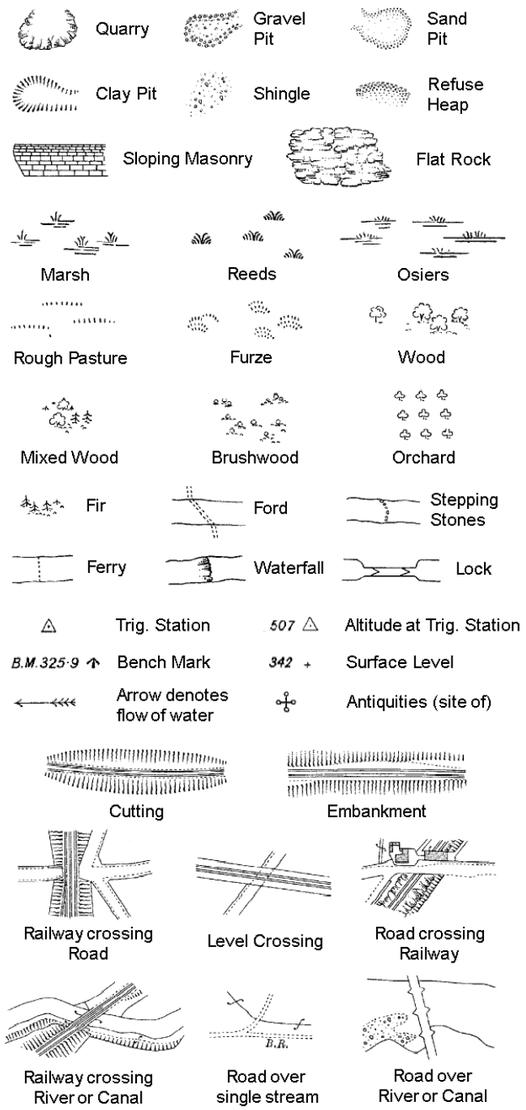
Site Details
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

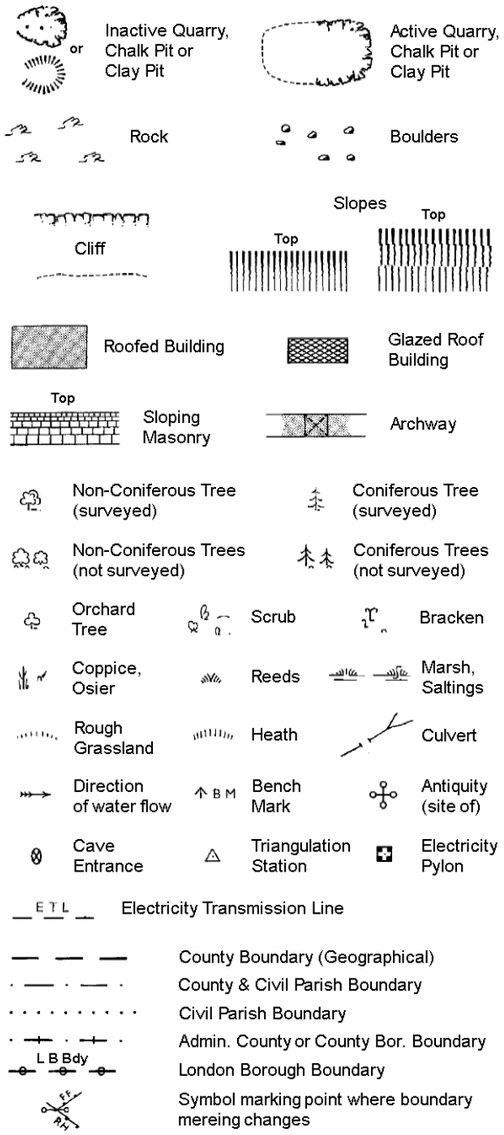
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

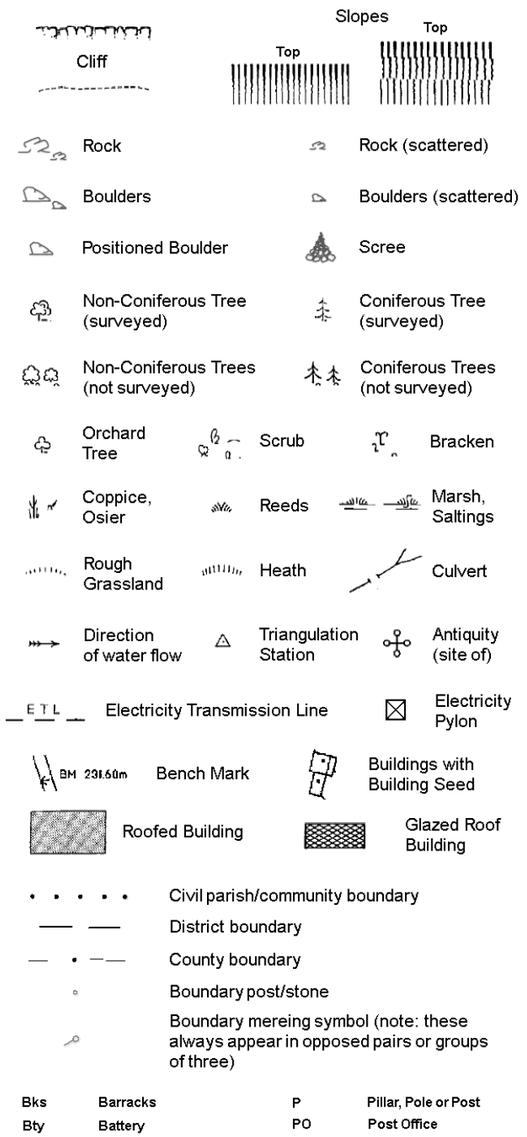
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

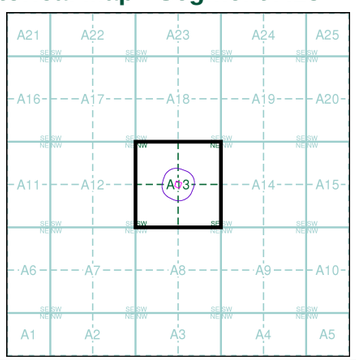
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1917	4
Glamorganshire	1:2,500	1939	5
Ordnance Survey Plan	1:1,250	1952 - 1957	6
Ordnance Survey Plan	1:2,500	1952 - 1958	7
Ordnance Survey Plan	1:1,250	1960 - 1967	8
Ordnance Survey Plan	1:1,250	1966 - 1976	9
Additional SIMs	1:1,250	1966 - 1986	10
Ordnance Survey Plan	1:2,500	1969	11
Ordnance Survey Plan	1:1,250	1972	12
Additional SIMs	1:1,250	1991	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1993	15
Historical Aerial Photography	1:2,500	2001	16

Historical Map - Segment A13



Order Details

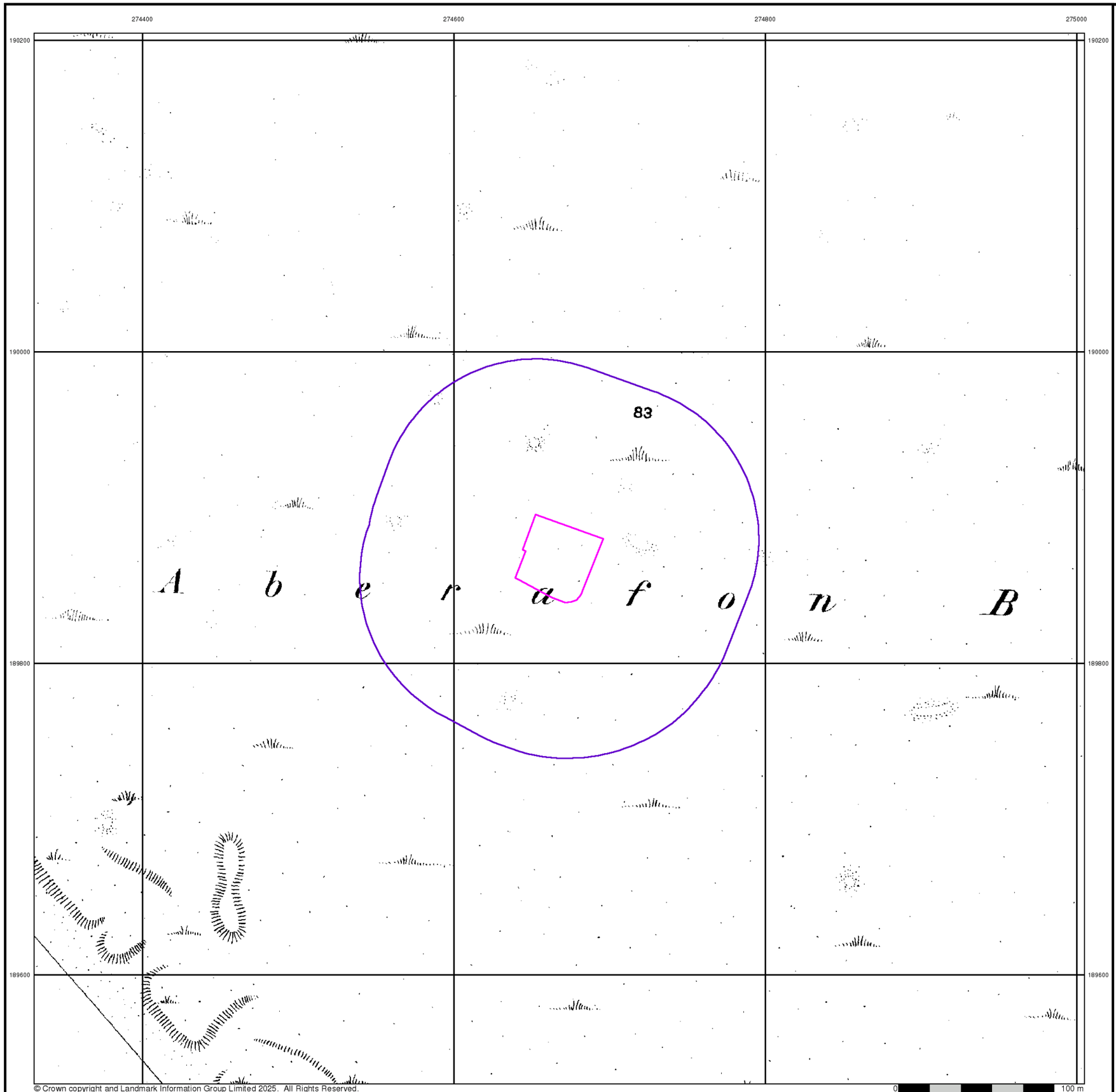
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National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	100

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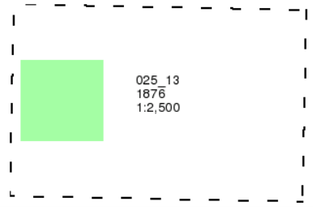
Glamorganshire

Published 1876

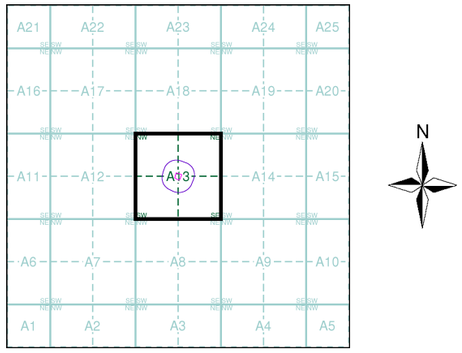
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



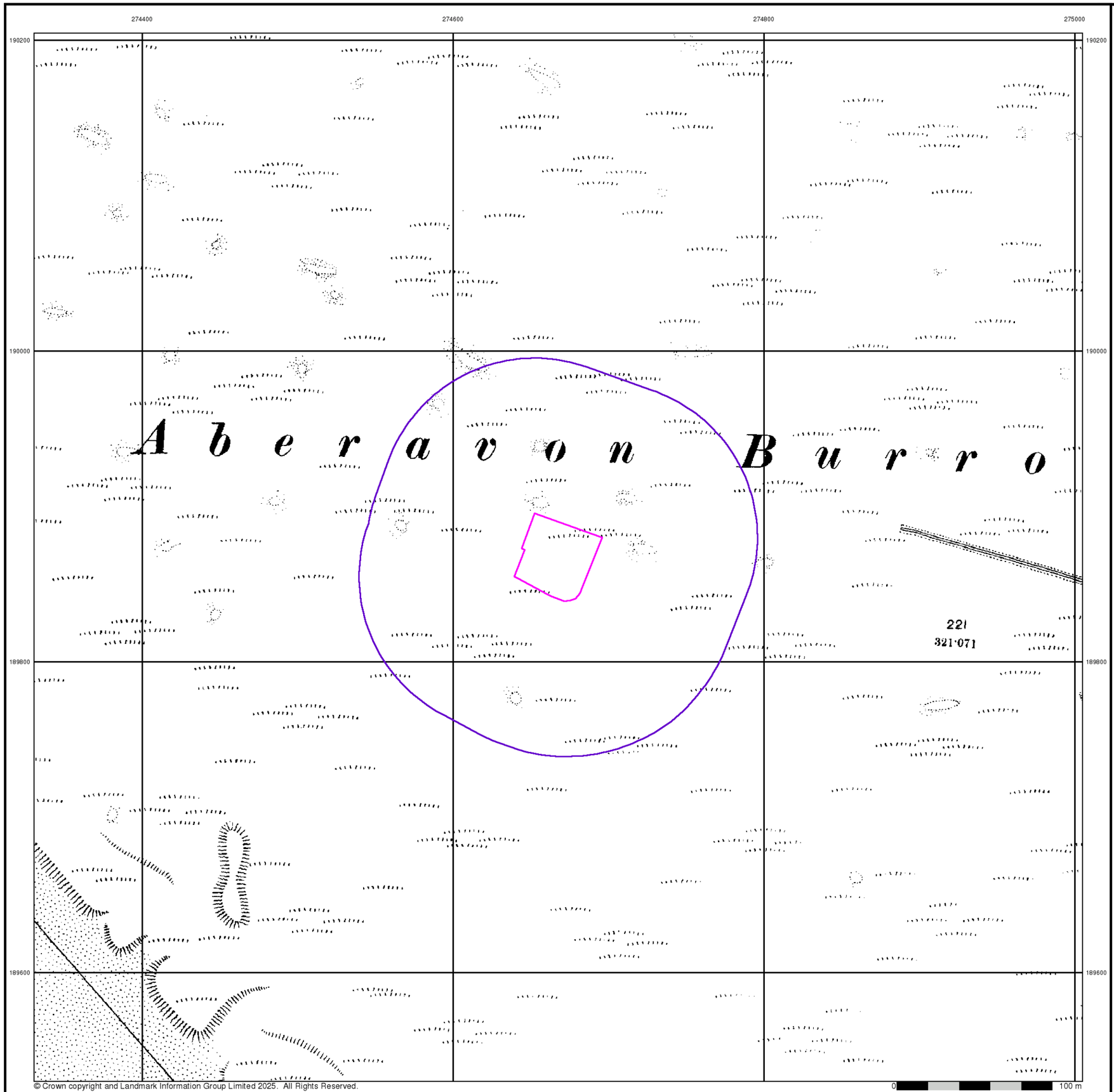
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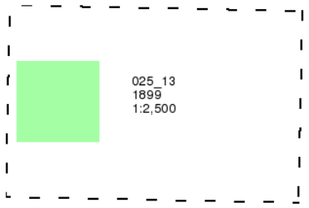
Glamorganshire

Published 1899

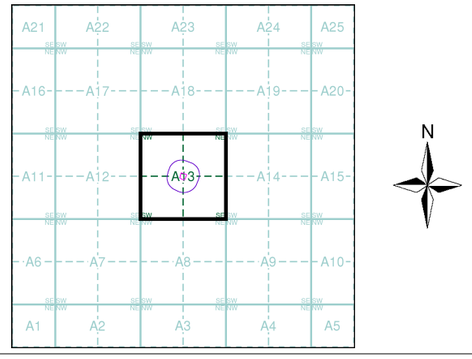
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



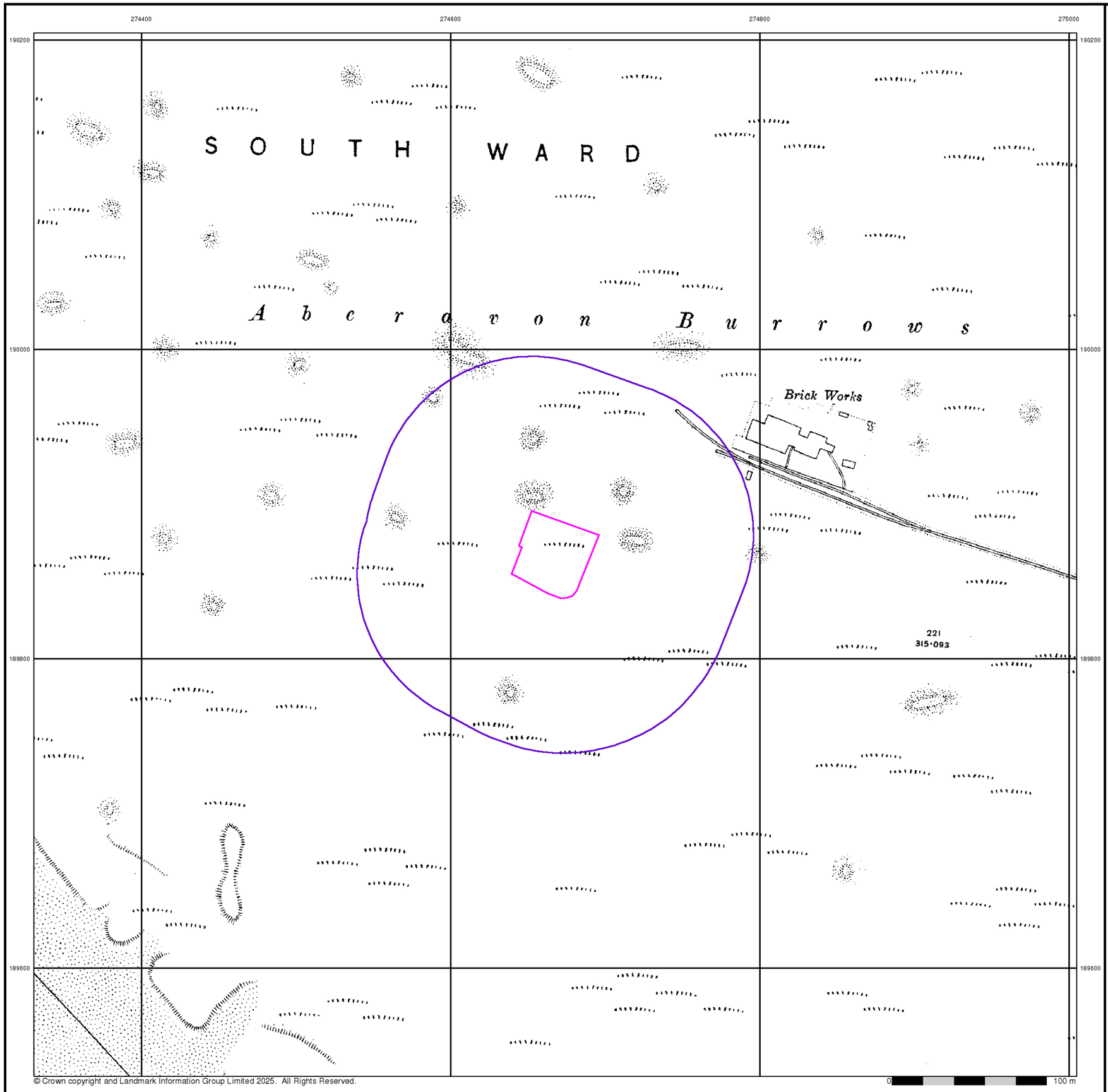
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Search Buffer (m):	100

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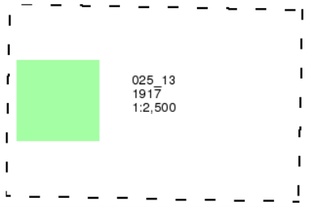
Glamorganshire

Published 1917

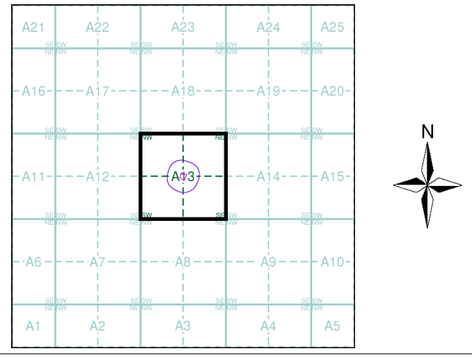
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



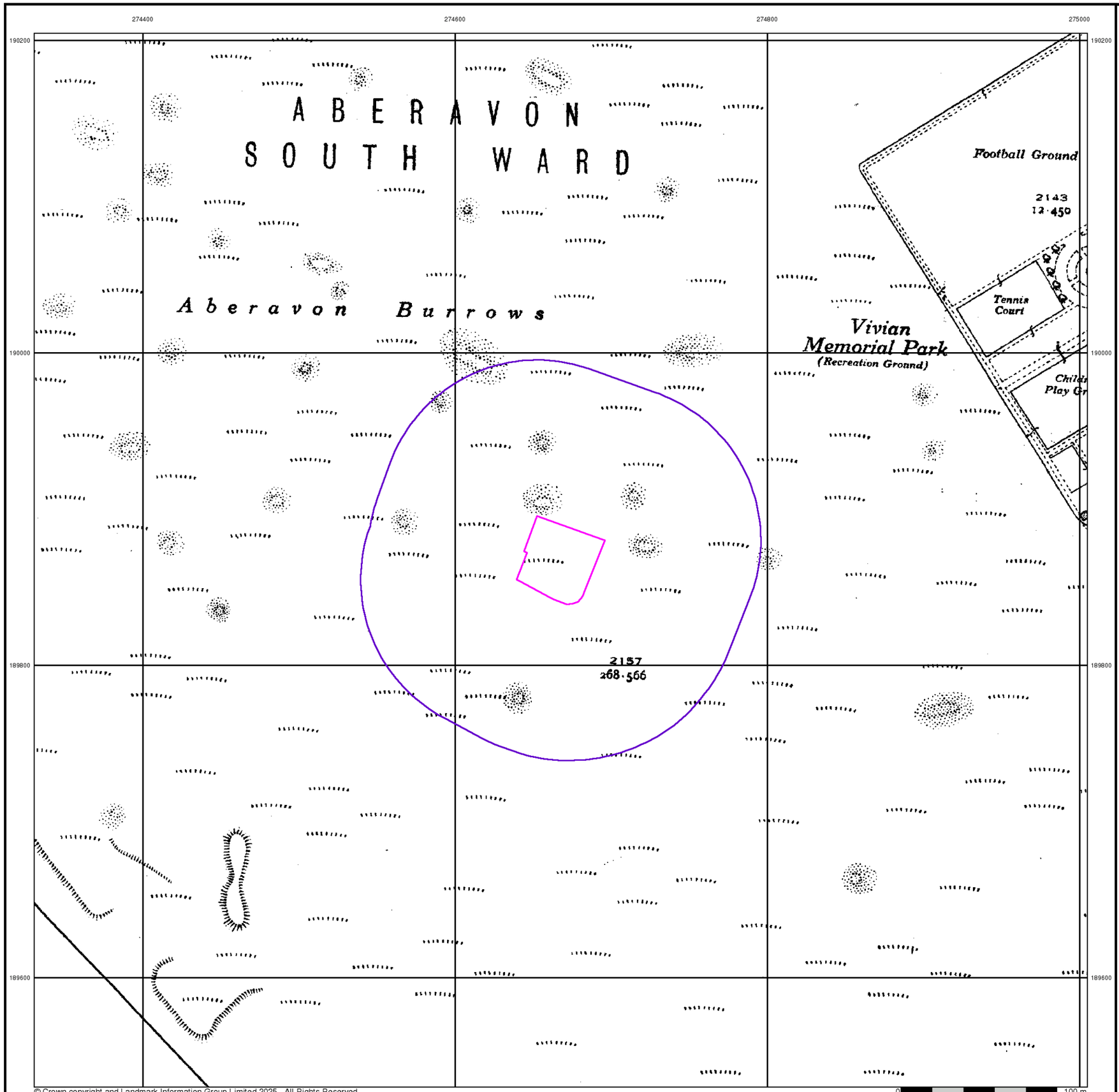
Order Details

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National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	100

Site Details

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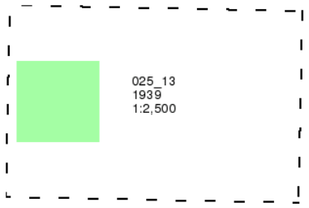
Glamorganshire

Published 1939

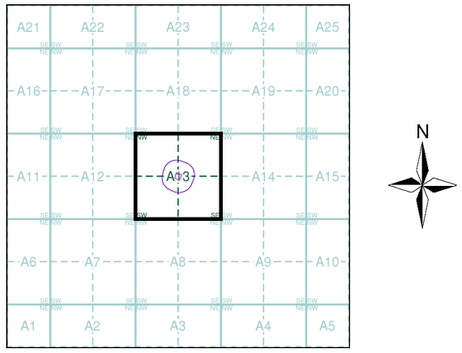
Source map scale - 1:2,500

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



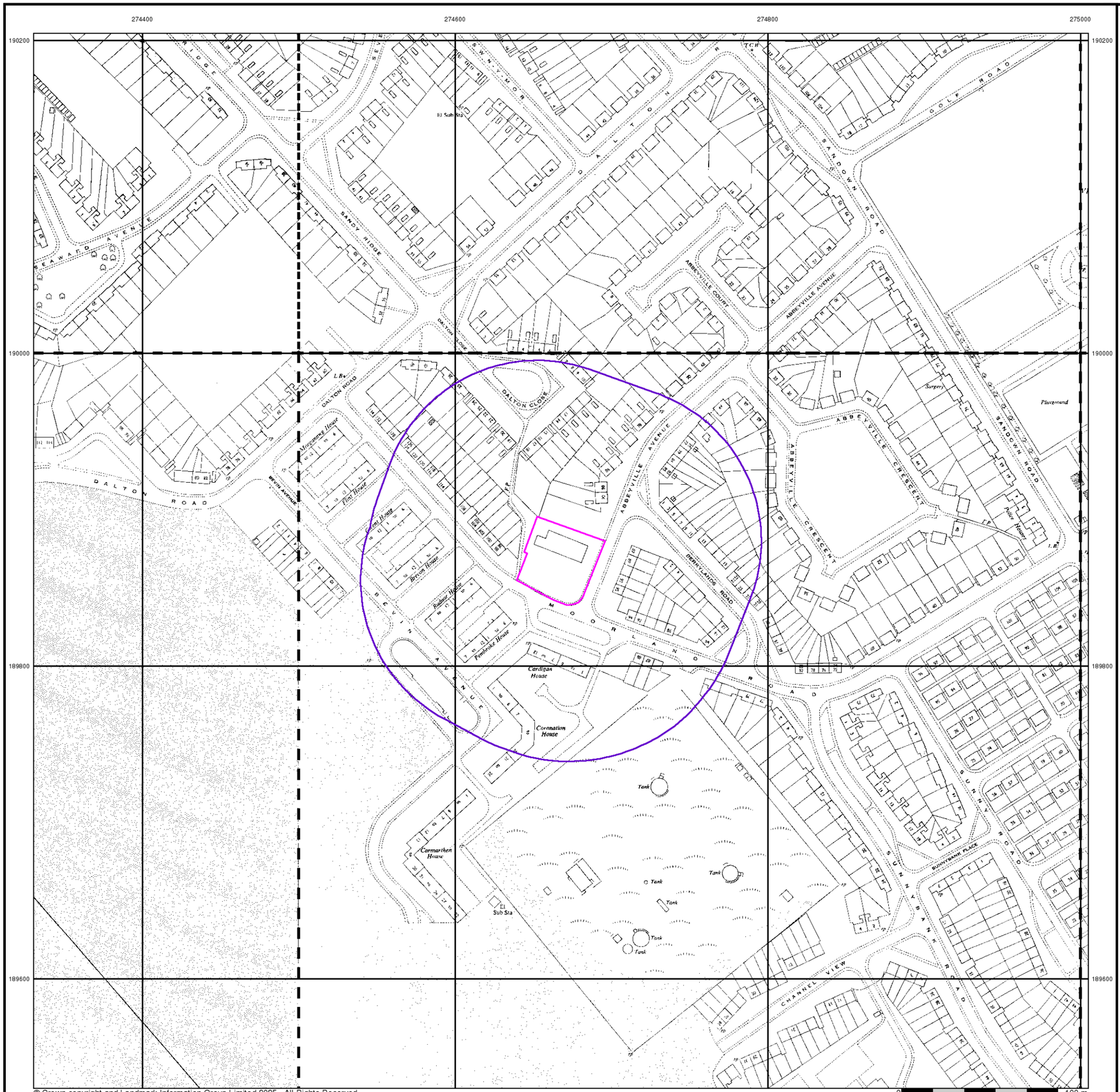
Order Details

Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	100

Site Details

The Red Dragon, Moorland Road, PORT TALBOT, SA12 6JZ

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Ordnance Survey Plan

Published 1952 - 1957

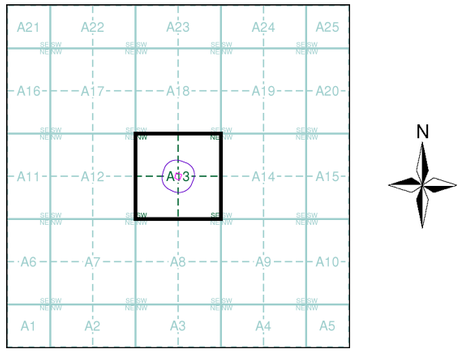
Source map scale - 1:1,250

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Map Name(s) and Date(s)

SS7490SW 1957 1:1,250	SS7490SE 1957 1:1,250	SS7590SW 1952 1:1,250
SS7489NW 1956 1:1,250	SS7489NE 1956 1:1,250	SS7589NW 1952 1:1,250

Historical Map - Segment A13



Order Details

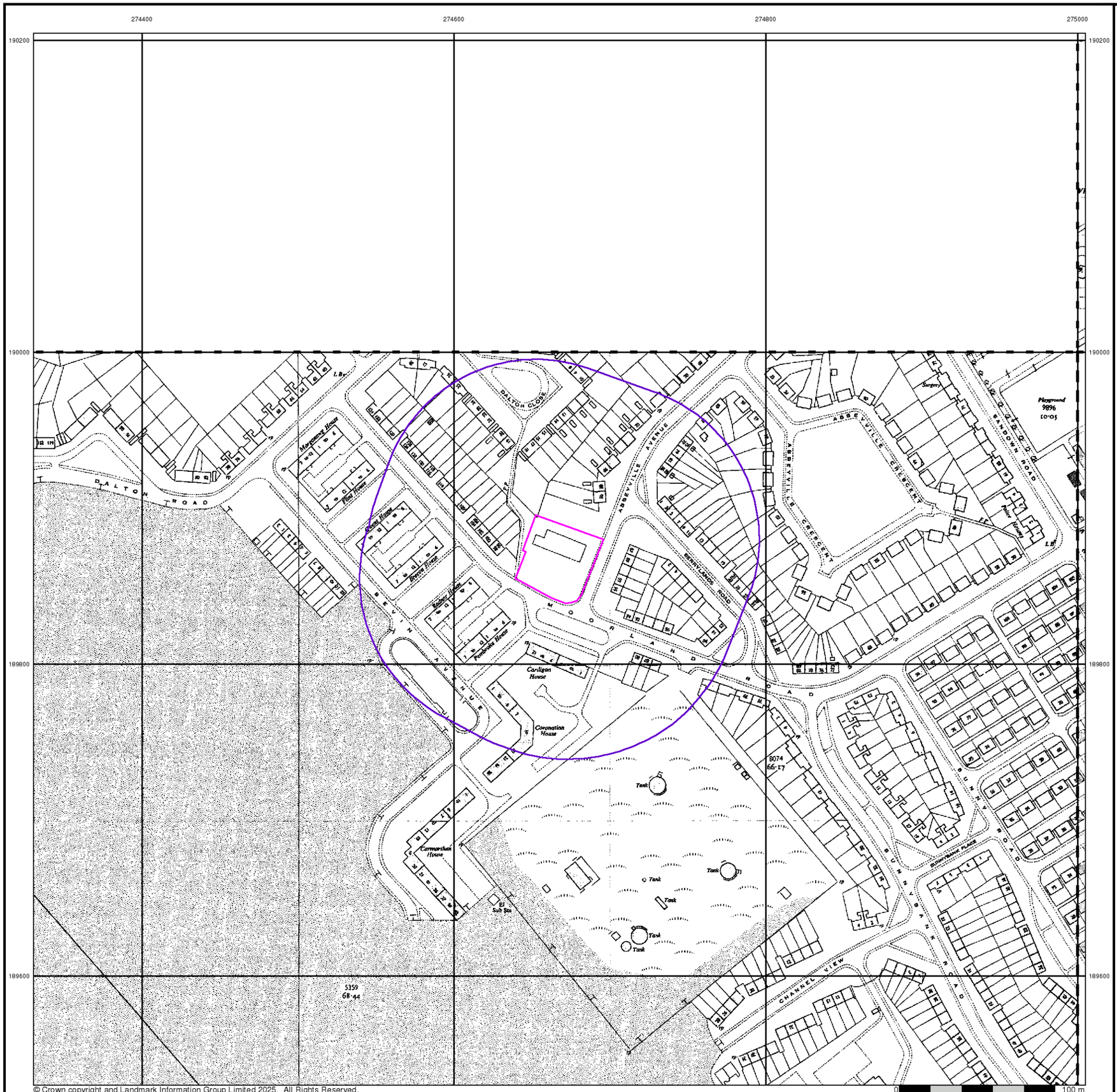
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National Grid Reference:	274670, 189870
Slice:	A
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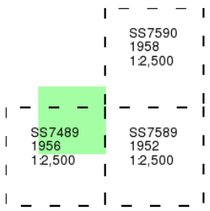
Ordnance Survey Plan

Published 1952 - 1958

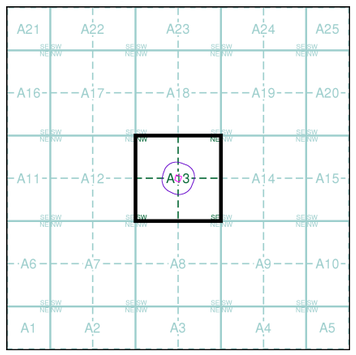
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

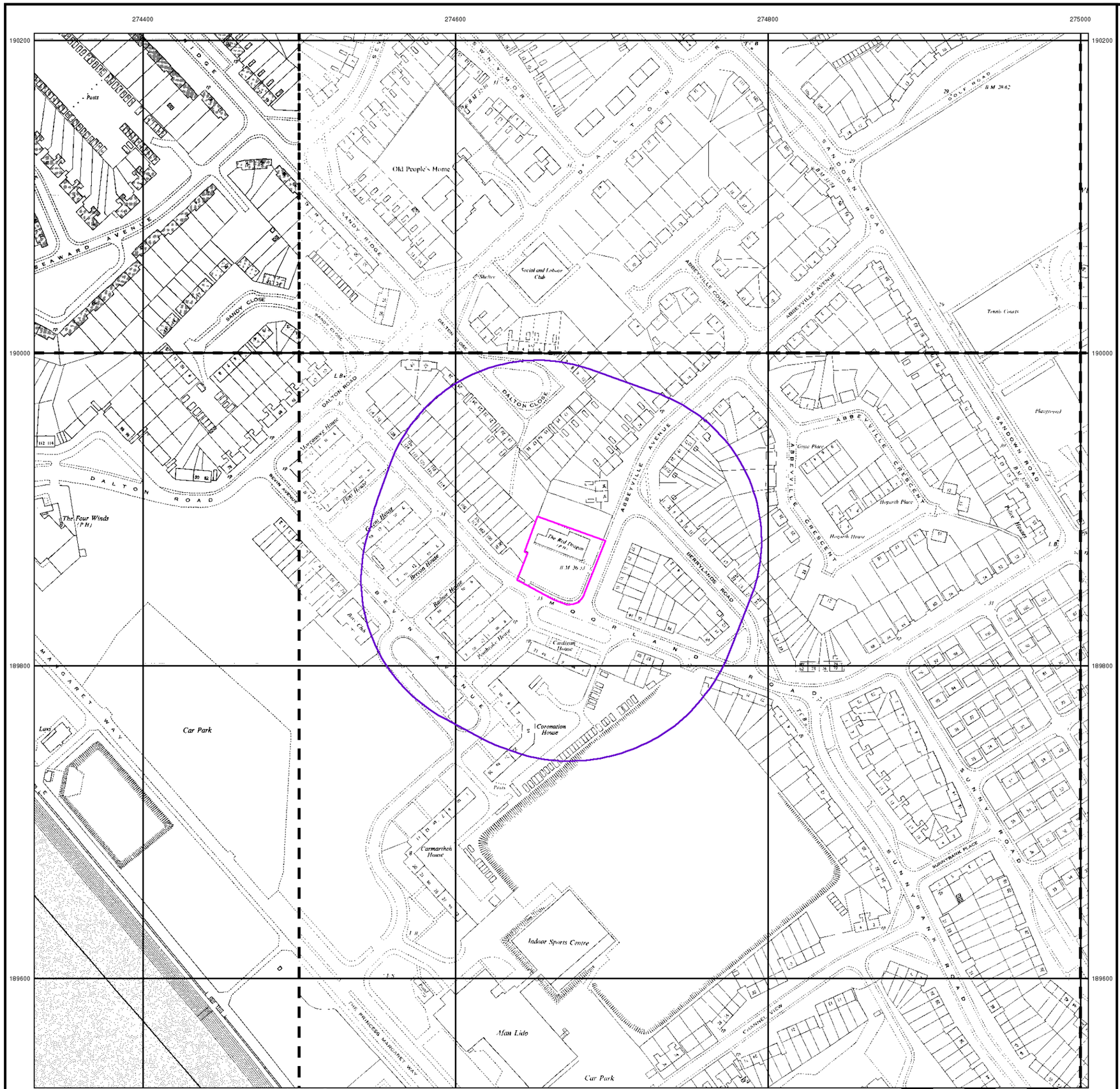
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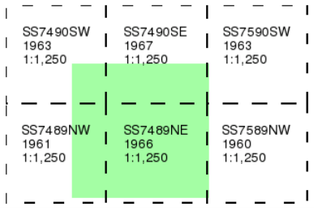
Ordnance Survey Plan

Published 1960 - 1967

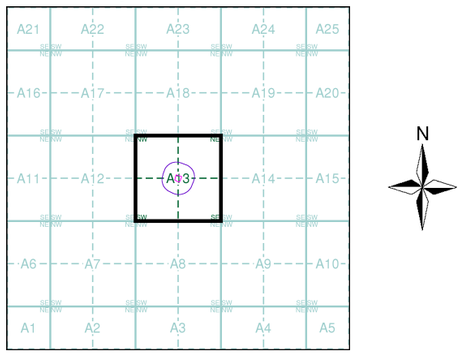
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

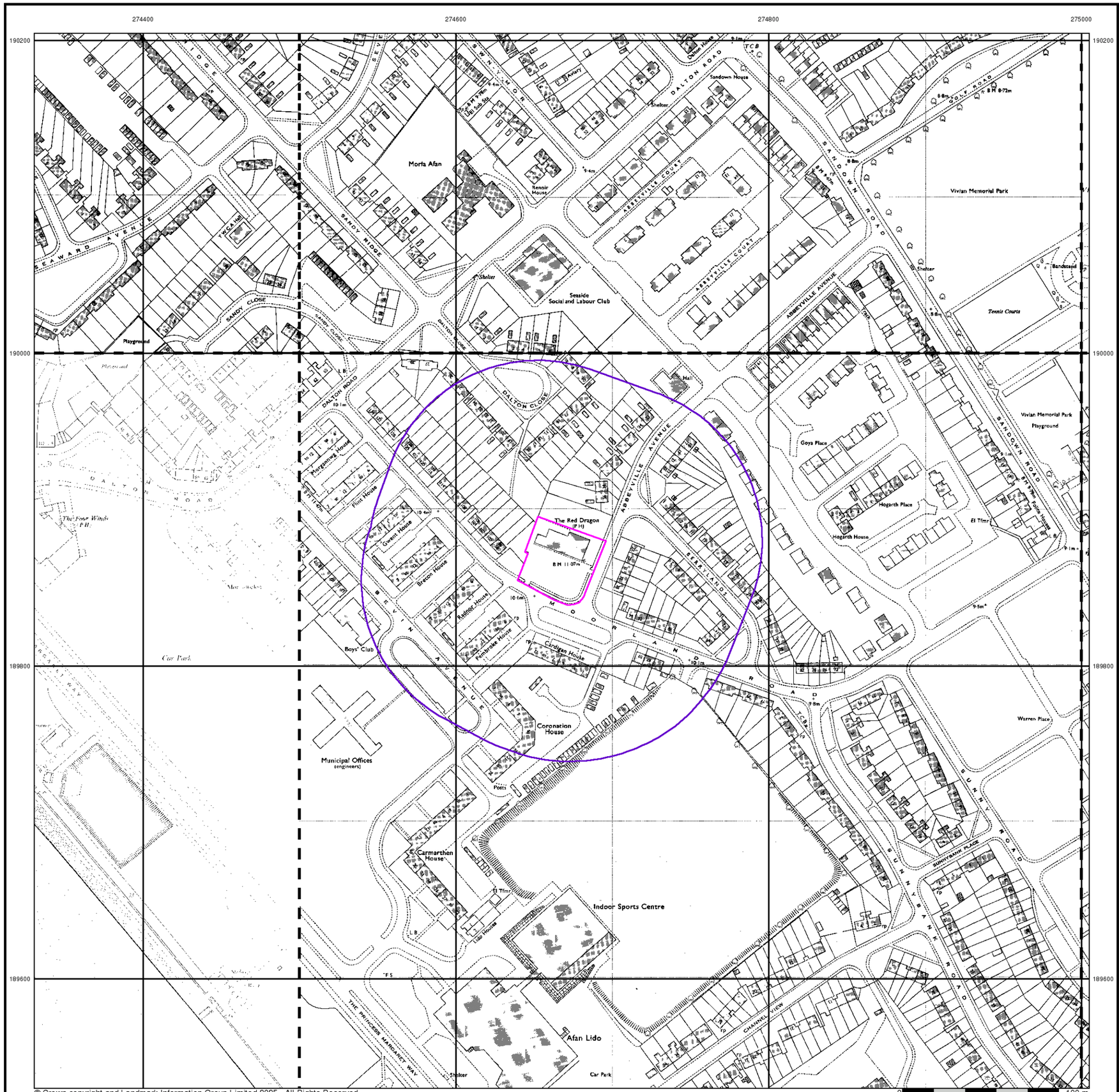
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Ordnance Survey Plan

Published 1966 - 1976

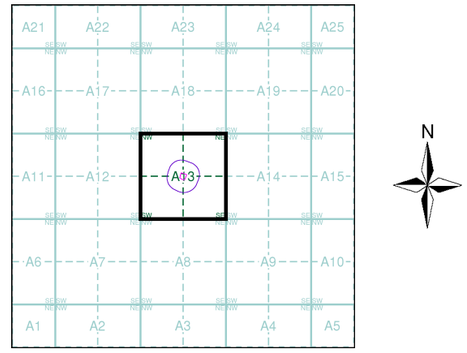
Source map scale - 1:1,250

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Map Name(s) and Date(s)

SS7490SW 1976 1:1,250	SS7490SE 1970 1:1,250	SS7590SW 1967 1:1,250
SS7489NW 1966 1:1,250	SS7489NE 1971 1:1,250	SS7589NW 1968 1:1,250

Historical Map - Segment A13



Order Details

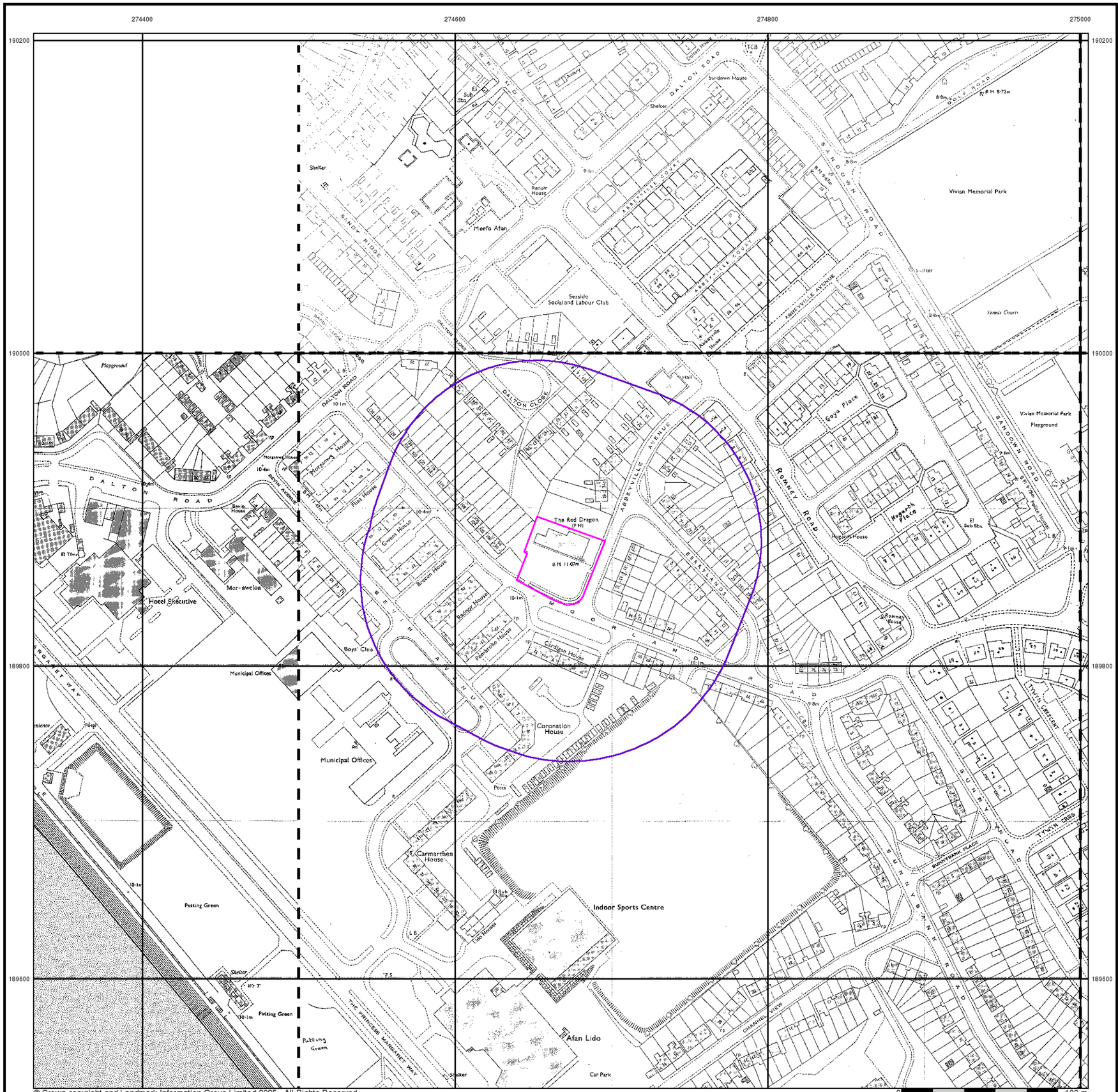
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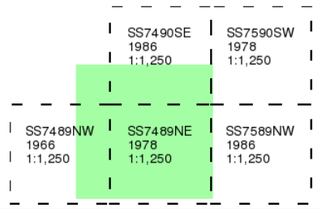
Additional SIMs

Published 1966 - 1986

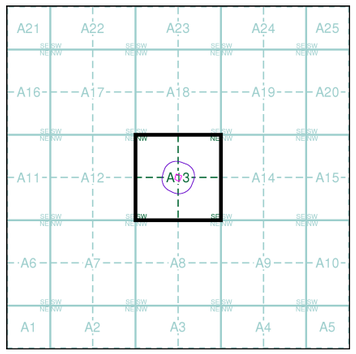
Source map scale - 1:1,250

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



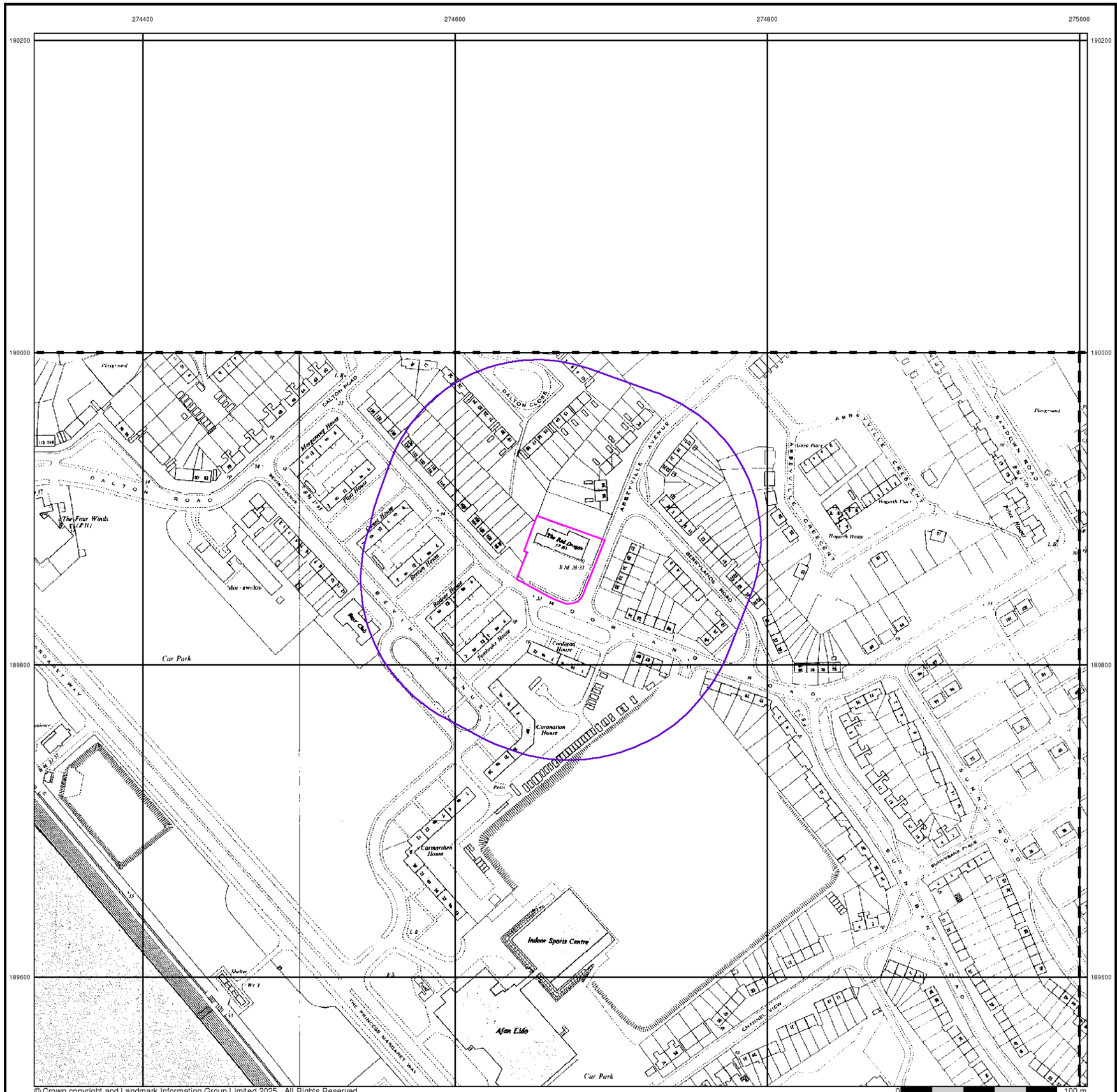
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Slice:	A
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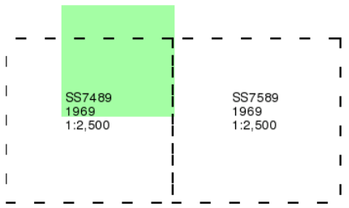
Ordnance Survey Plan

Published 1969

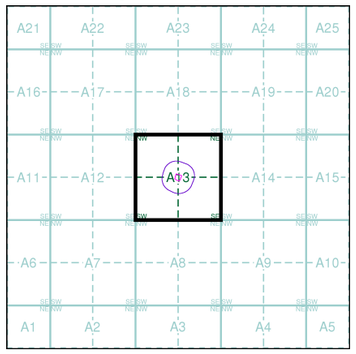
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

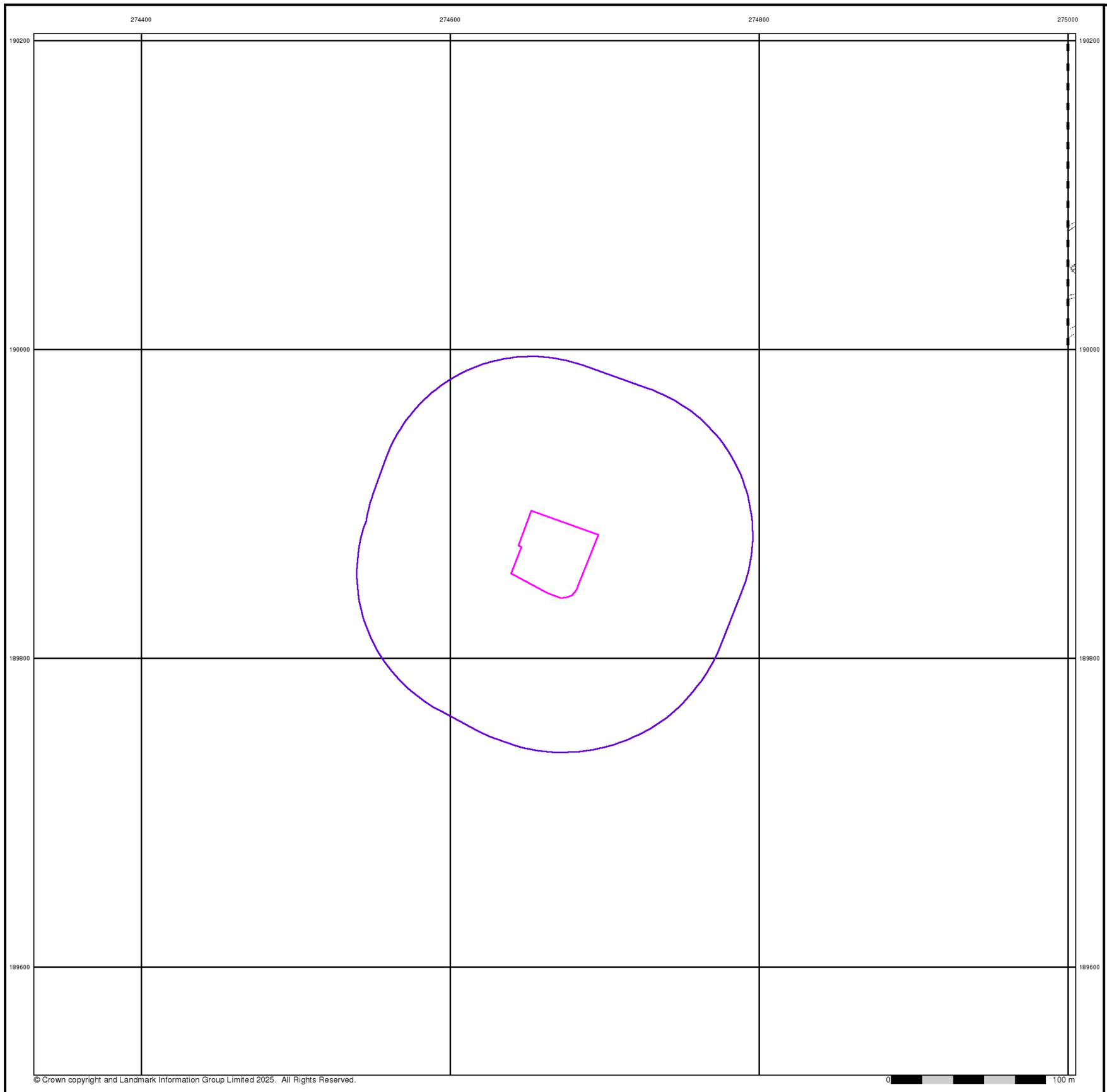
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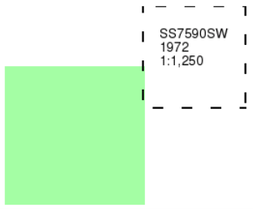
Ordnance Survey Plan

Published 1972

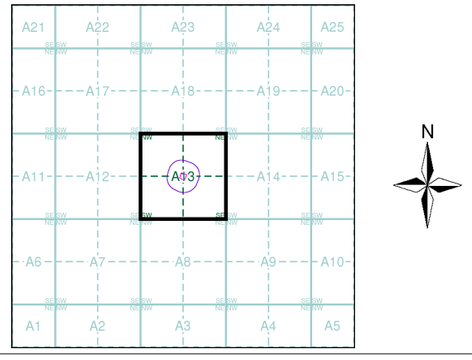
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



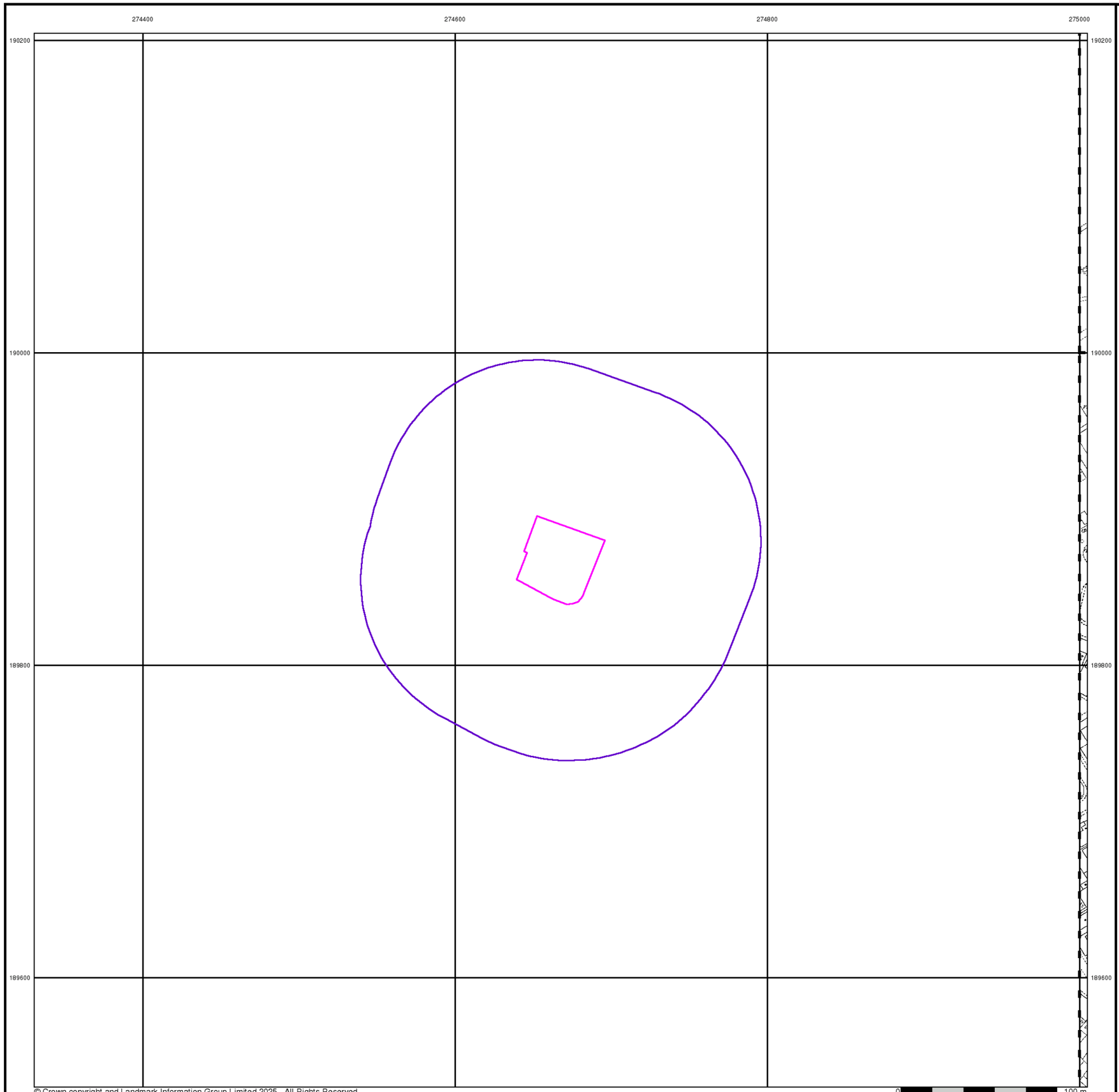
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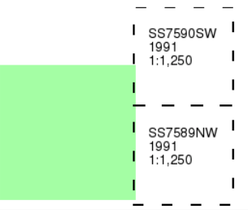
Additional SIMs

Published 1991

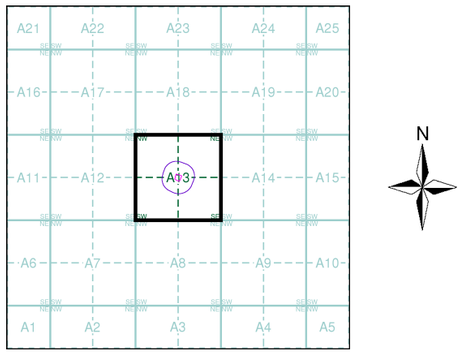
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



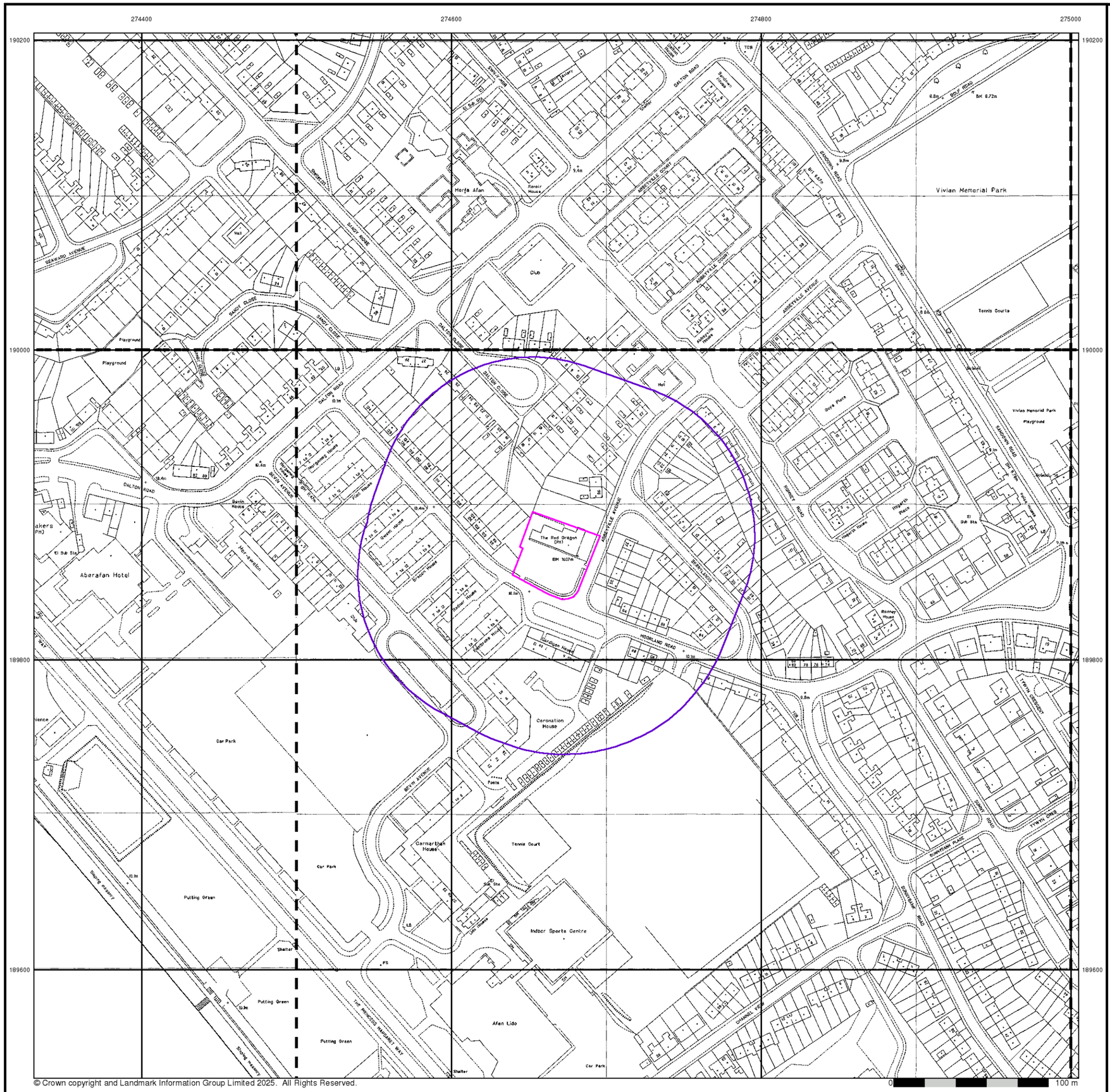
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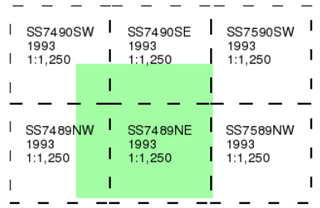
Large-Scale National Grid Data

Published 1993

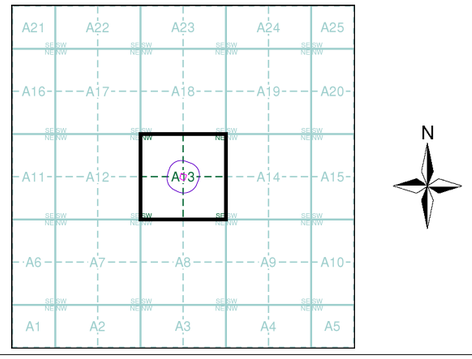
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

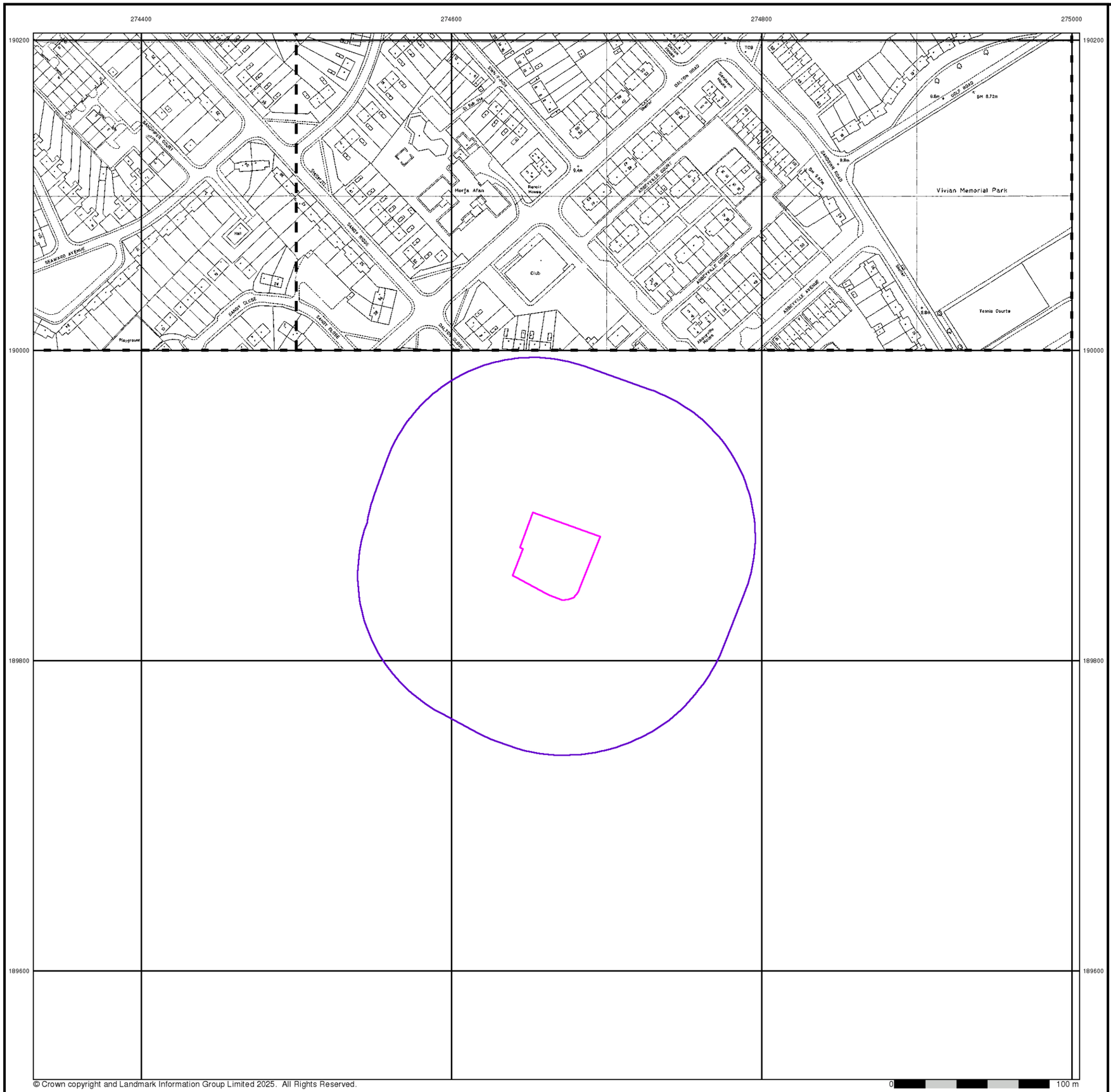
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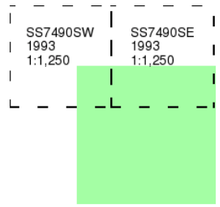
Large-Scale National Grid Data

Published 1993

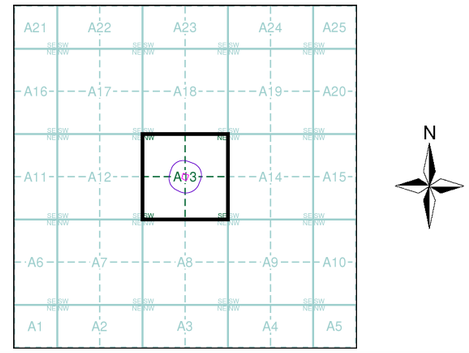
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



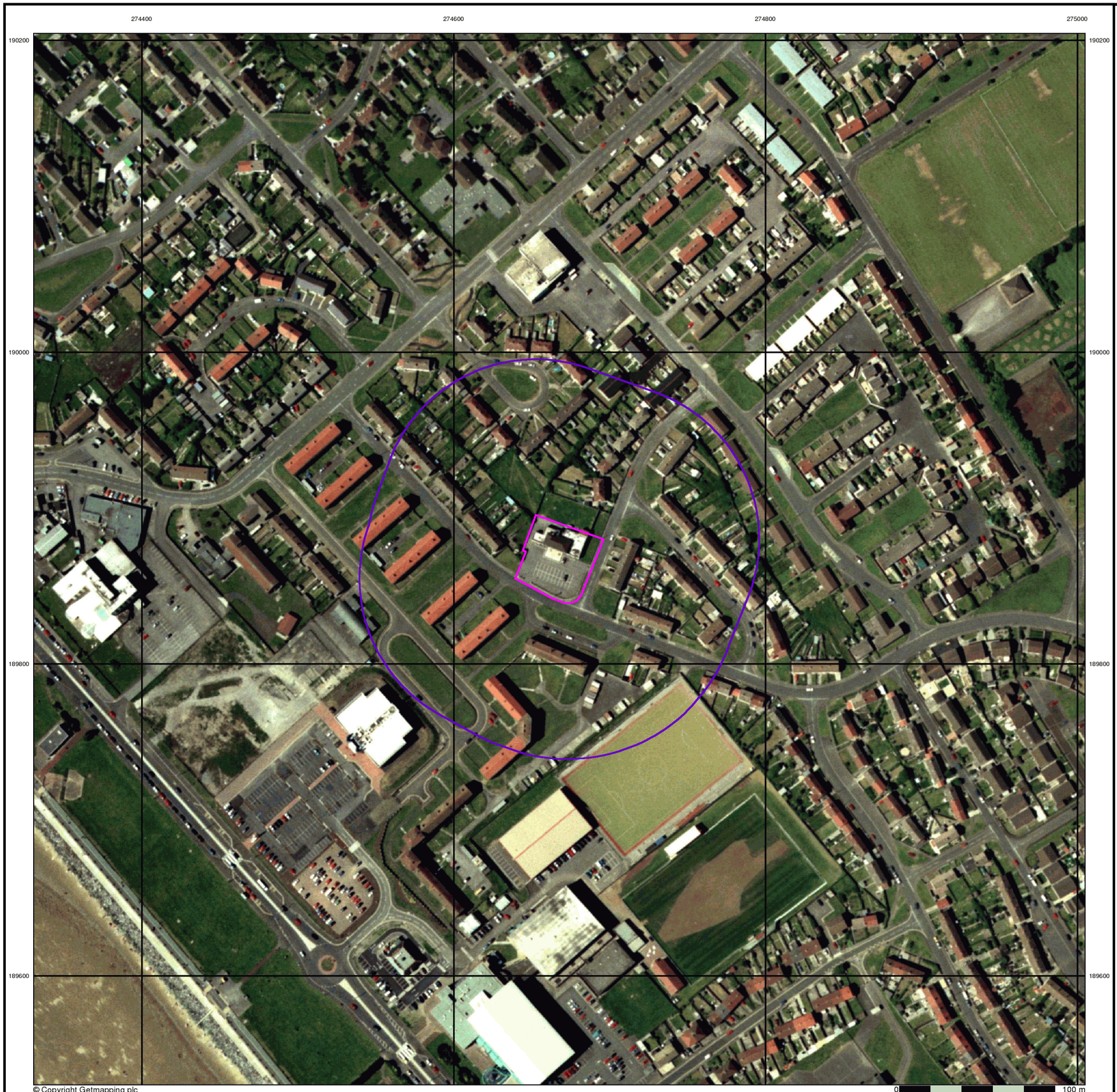
Order Details

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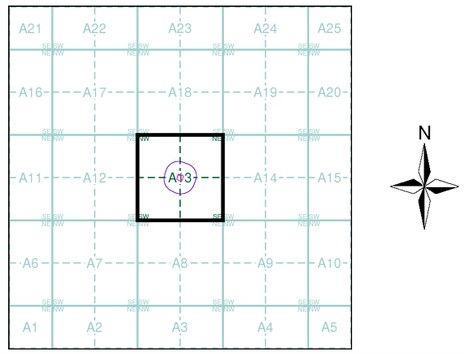
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Historical Aerial Photography

Published 2001

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



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Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. 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
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

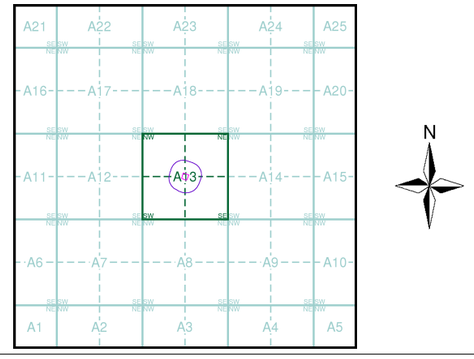
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m 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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884 - 1885	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1921	5
Glamorganshire	1:10,560	1938 - 1952	6
Historical Aerial Photography	1:10,560	1949	7
Glamorganshire	1:10,560	1951	8
Ordnance Survey Plan	1:10,000	1964 - 1965	9
Ordnance Survey Plan	1:10,000	1974	10
Ordnance Survey Plan	1:10,000	1980 - 1982	11
Ordnance Survey Plan	1:10,000	1993 - 1996	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2024	15

Historical Map - Slice A



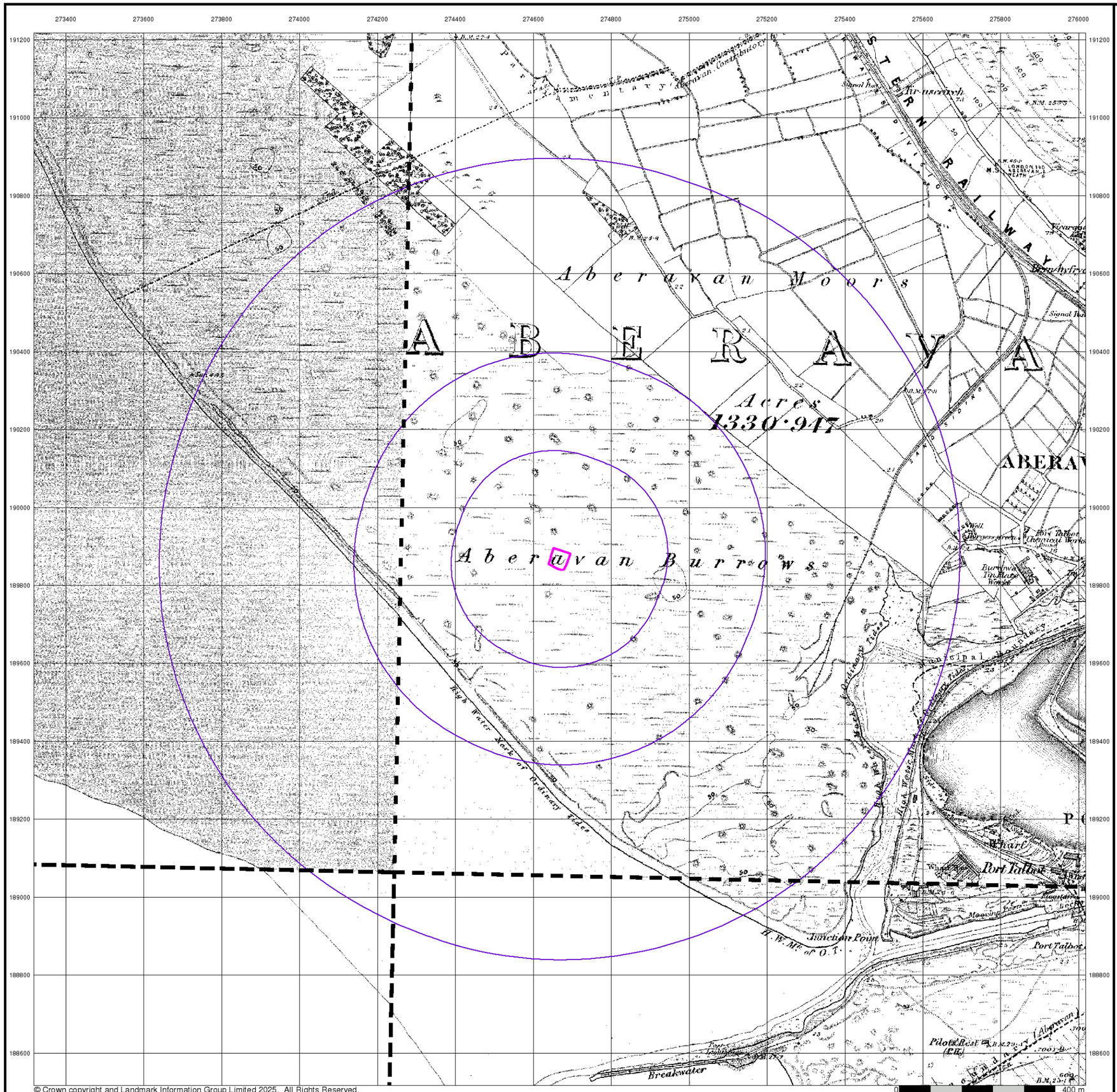
Order Details

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Customer Ref: TF-24-275
National Grid Reference: 274670, 189870
Slice: A
Site Area (Ha): 0.21
Search Buffer (m): 1000

Site Details

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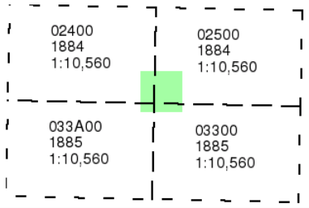
Glamorganshire

Published 1884 - 1885

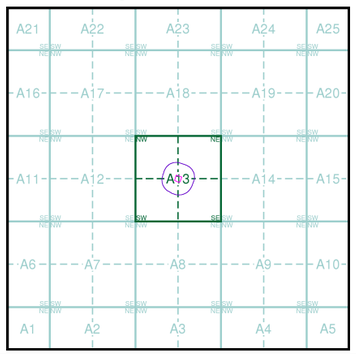
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



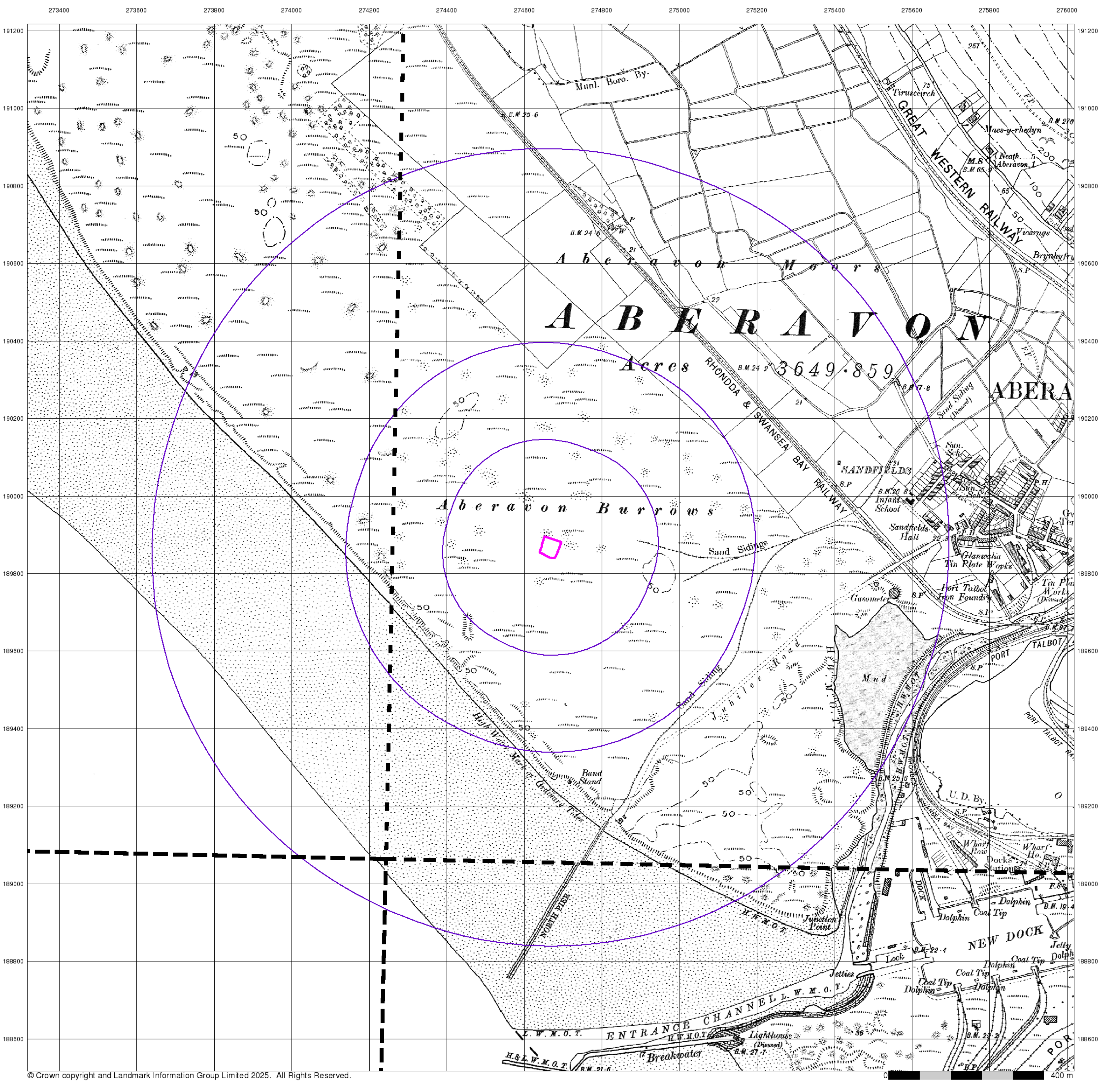
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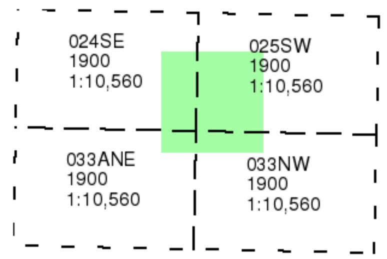
Glamorganshire

Published 1900

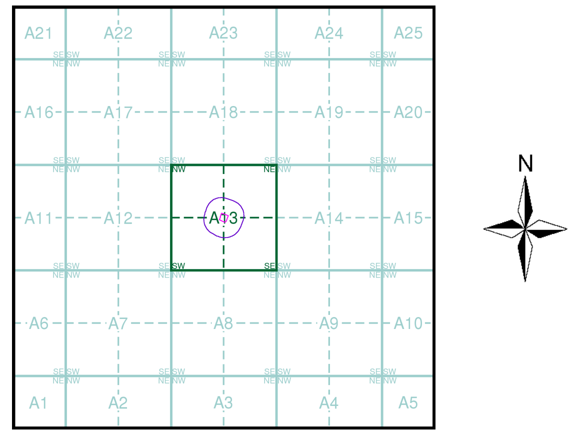
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

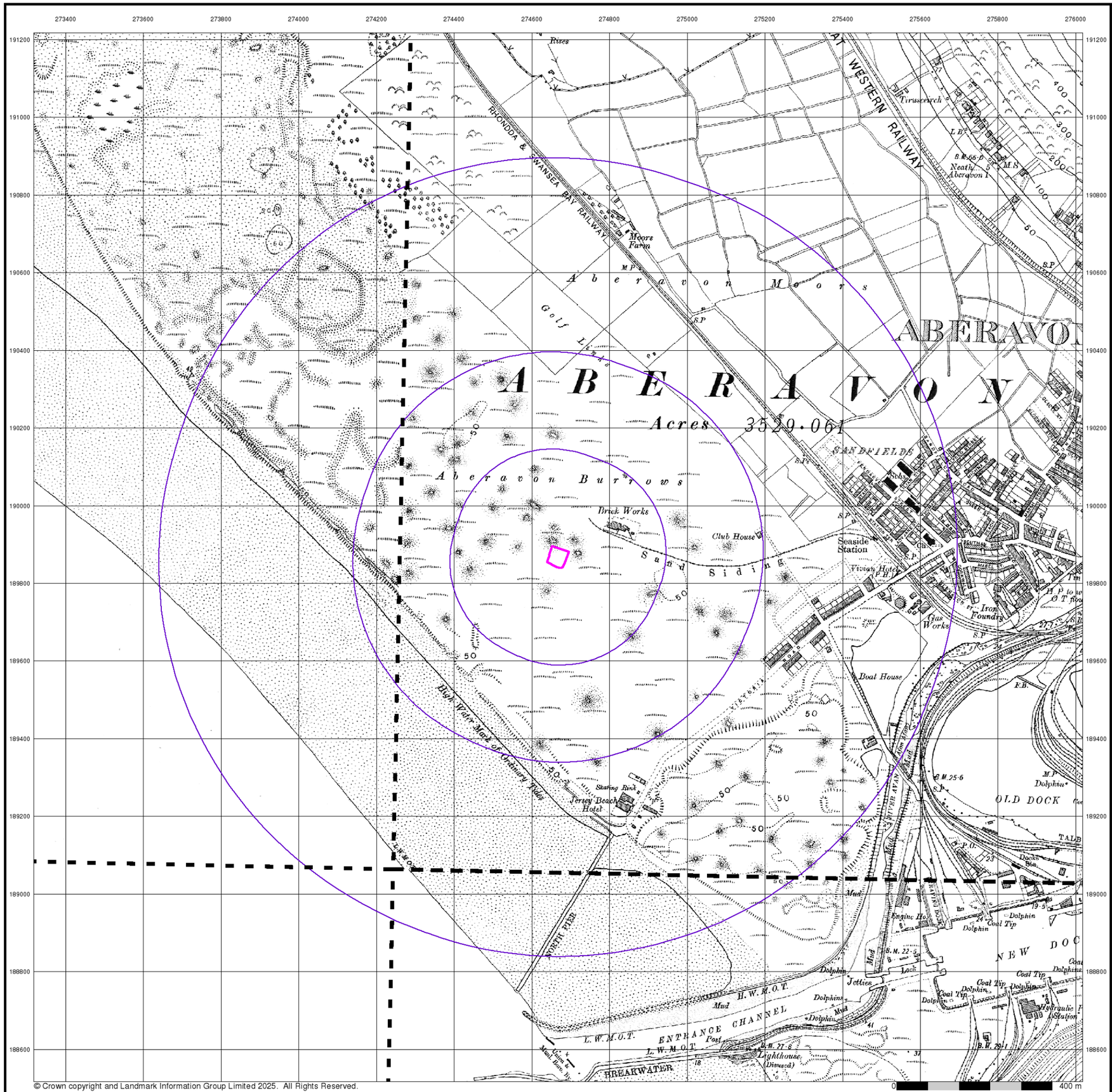
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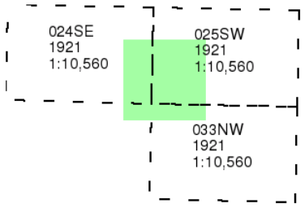
Glamorganshire

Published 1921

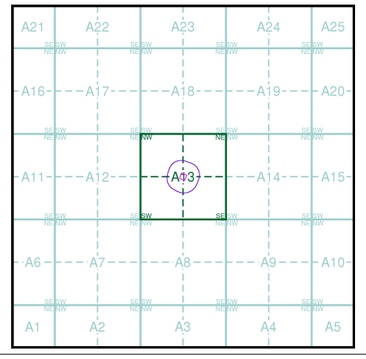
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Map Name(s) and Date(s)



Historical Map - Slice A



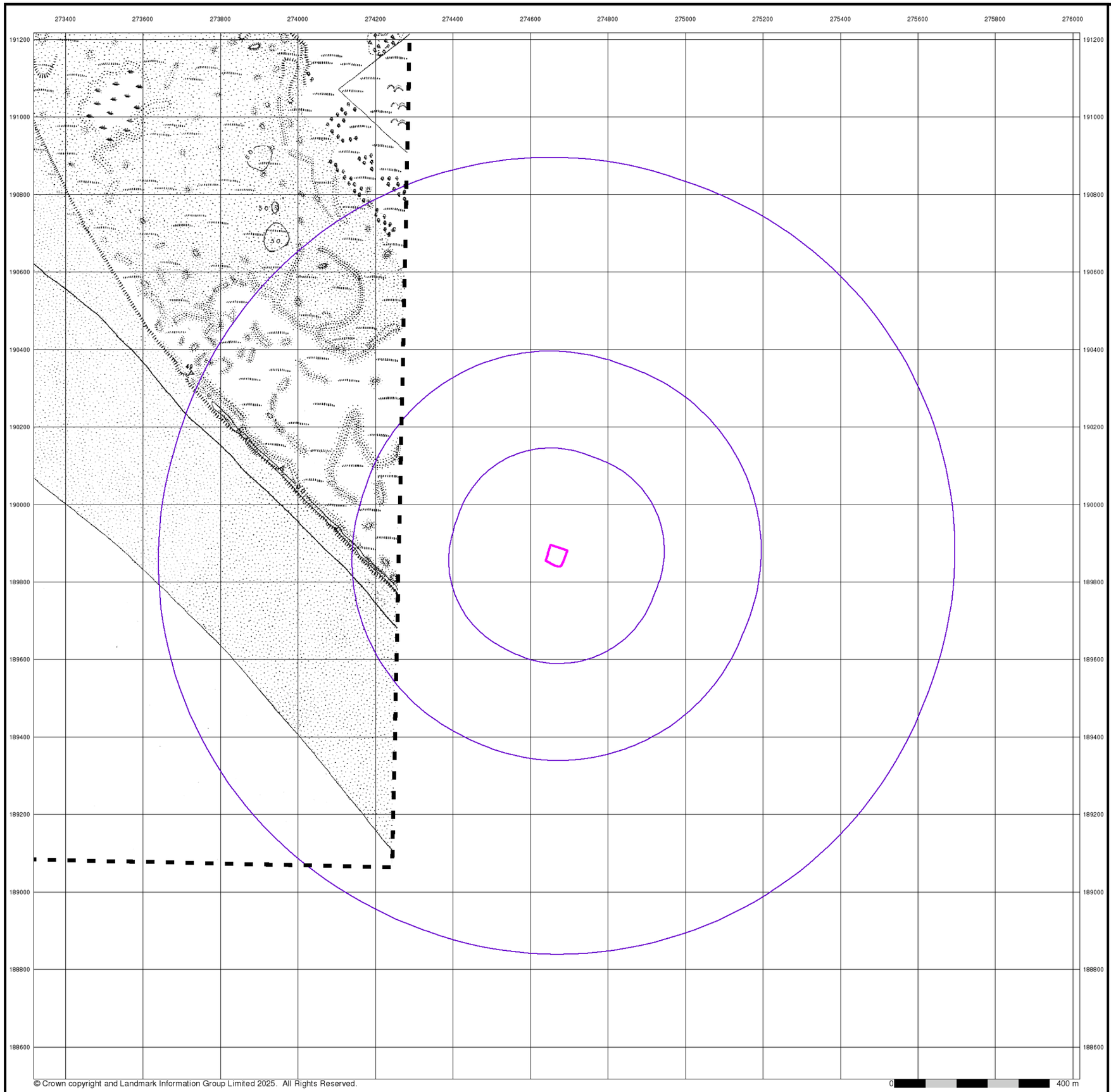
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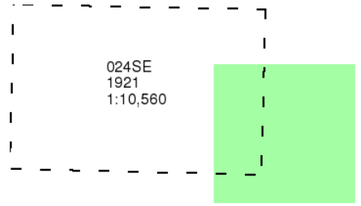
Glamorganshire

Published 1921

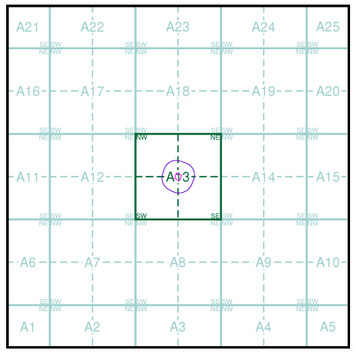
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Map Name(s) and Date(s)



Historical Map - Slice A



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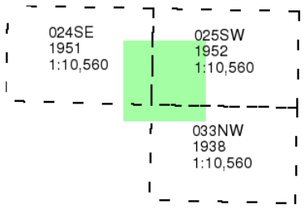
Glamorganshire

Published 1938 - 1952

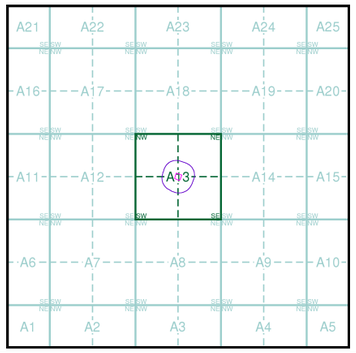
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



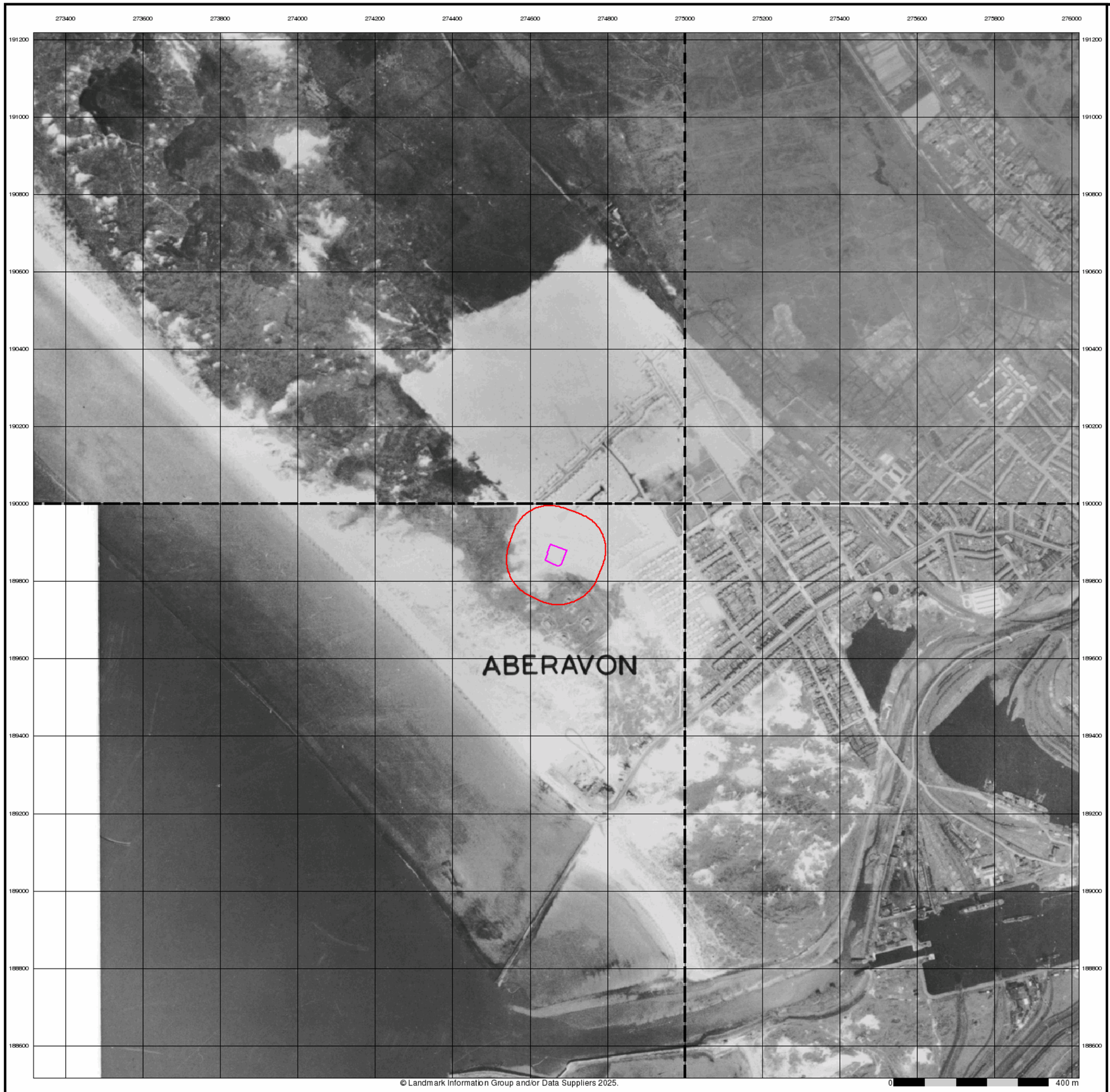
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Historical Aerial Photography

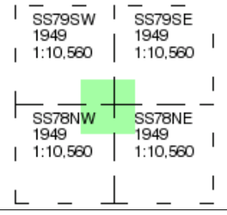
Published 1949

Source map scale - 1:10,560

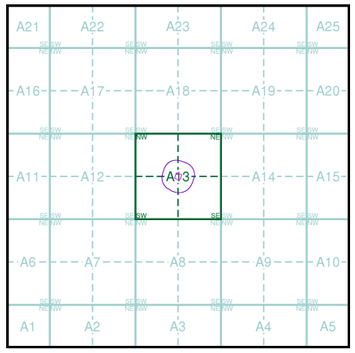
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



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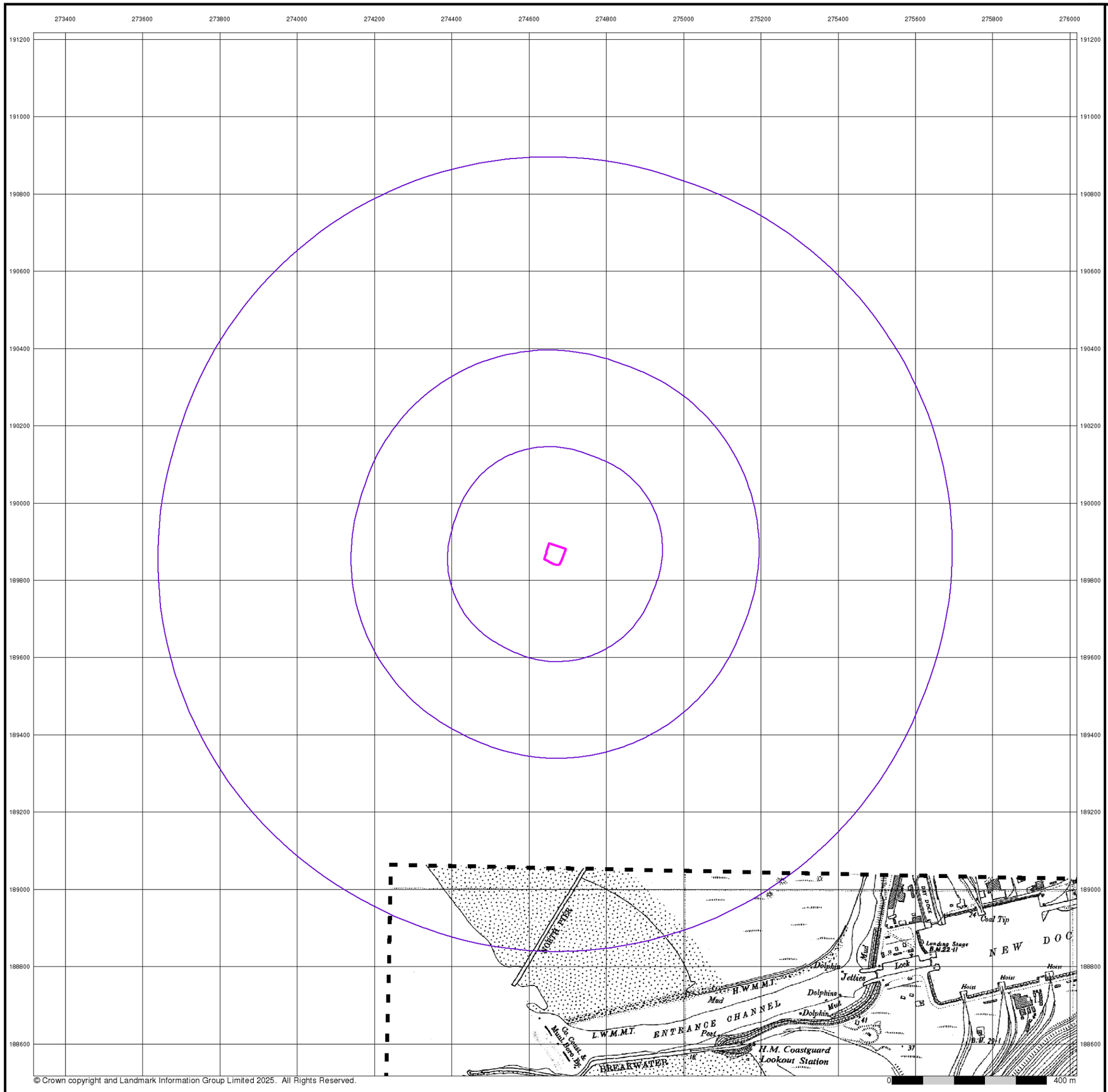
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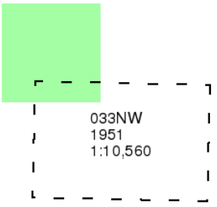
Glamorganshire

Published 1951

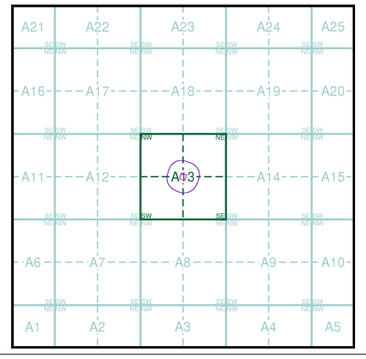
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Map Name(s) and Date(s)



Historical Map - Slice A



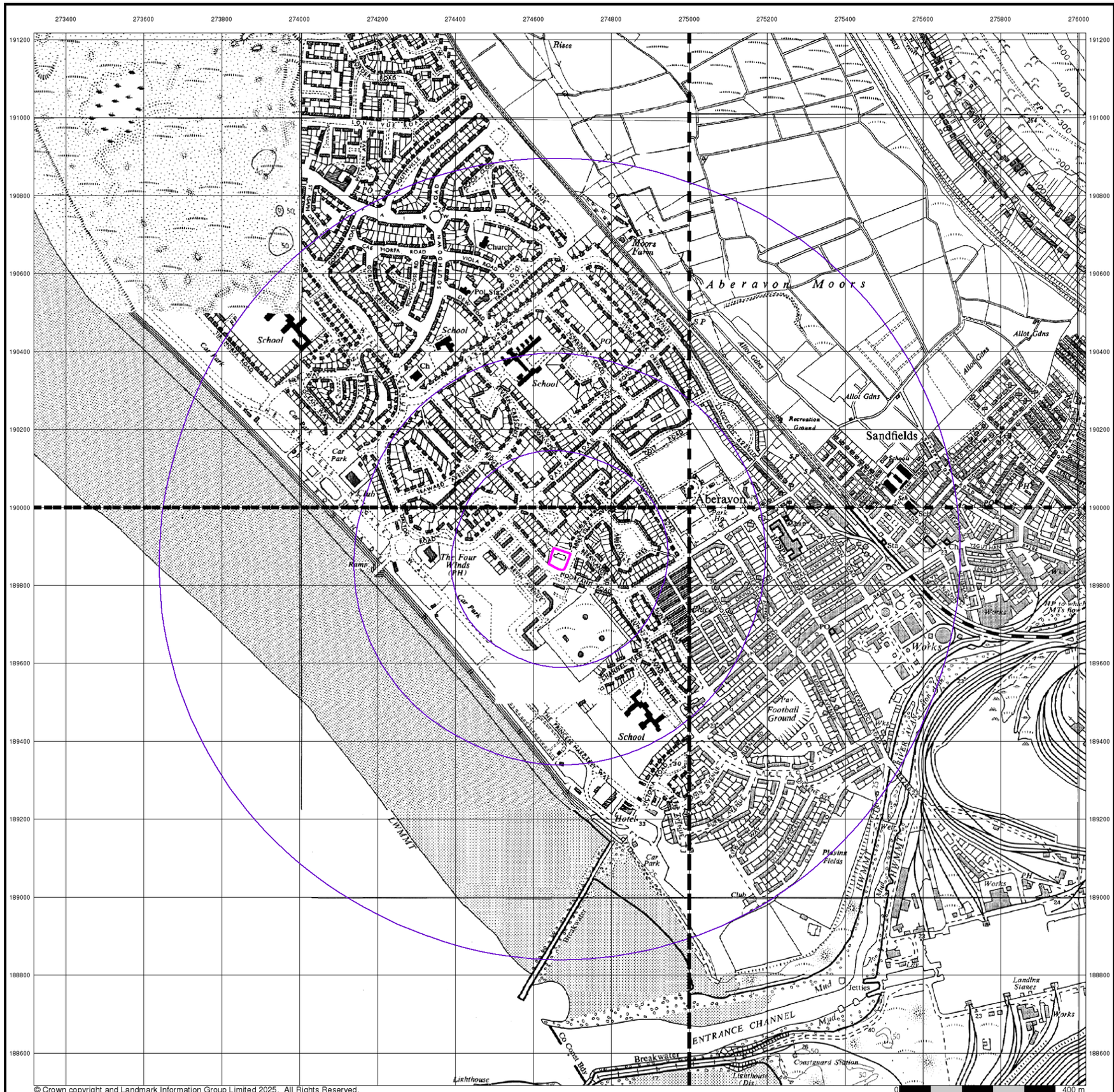
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Ordnance Survey Plan

Published 1964 - 1965

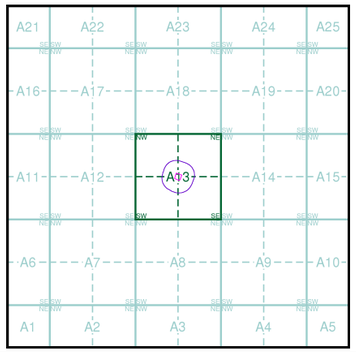
Source map scale - 1:10,000

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Map Name(s) and Date(s)

SS79SW 1964 1:10,560	SS79SE 1964 1:10,560
SS78NW 1965 1:10,560	SS78NE 1965 1:10,560

Historical Map - Slice A



Order Details

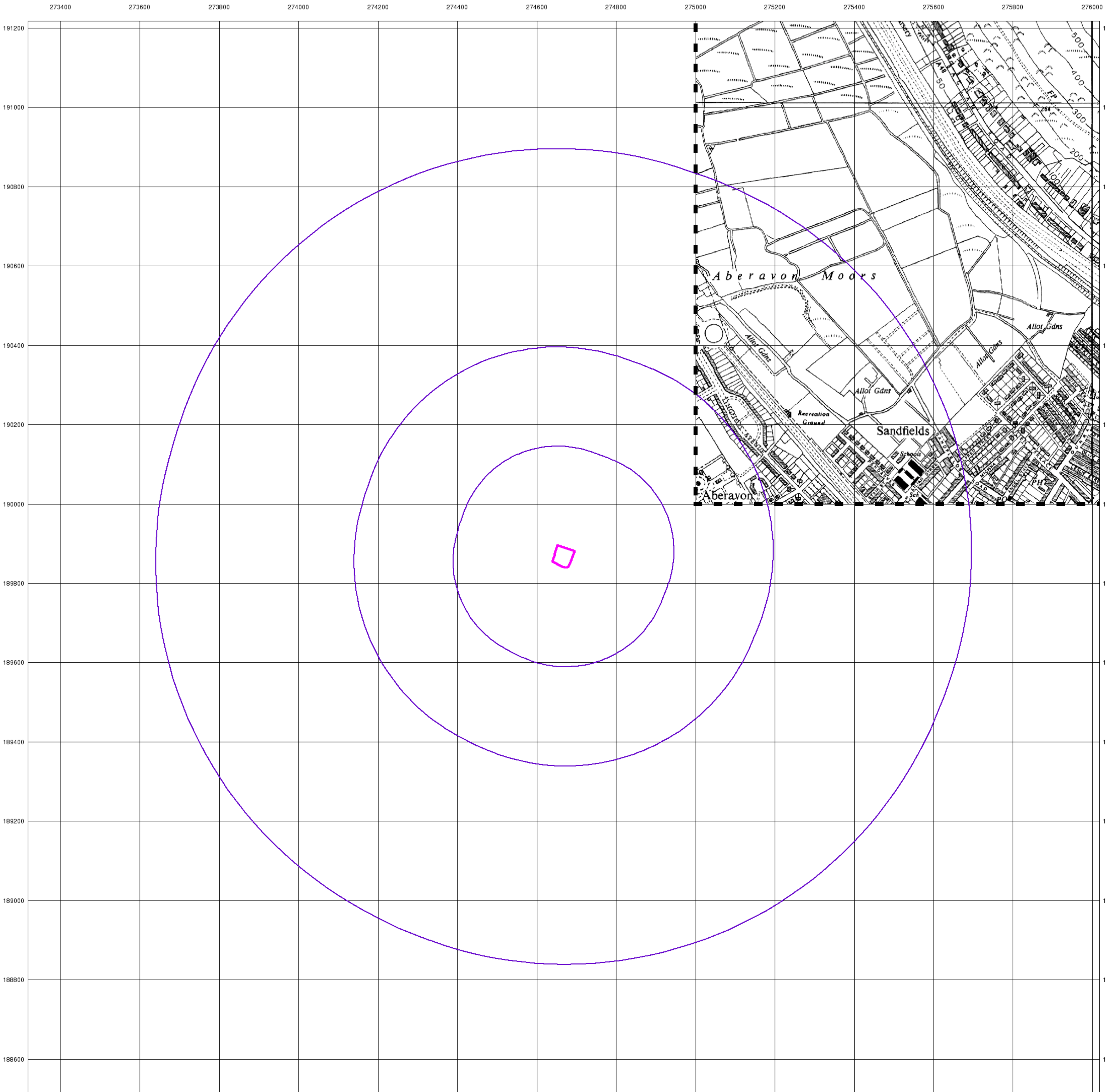
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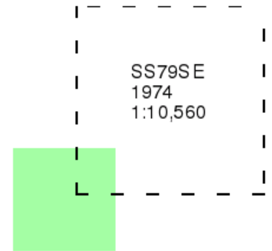
Ordnance Survey Plan

Published 1974

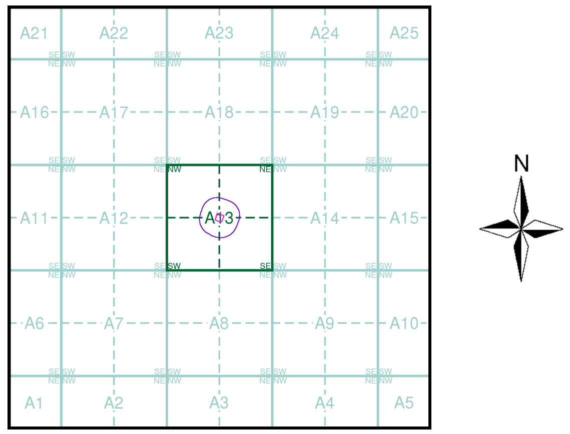
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Historical Map - Slice A



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Ordnance Survey Plan

Published 1980 - 1982

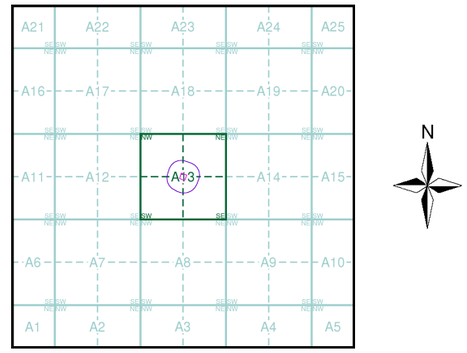
Source map scale - 1:10,000

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)

SS79SW 1980 1:10,000	SS79SE 1980 1:10,000
SS78NW 1982 1:10,000	SS78NE 1982 1:10,000

Historical Map - Slice A



Order Details

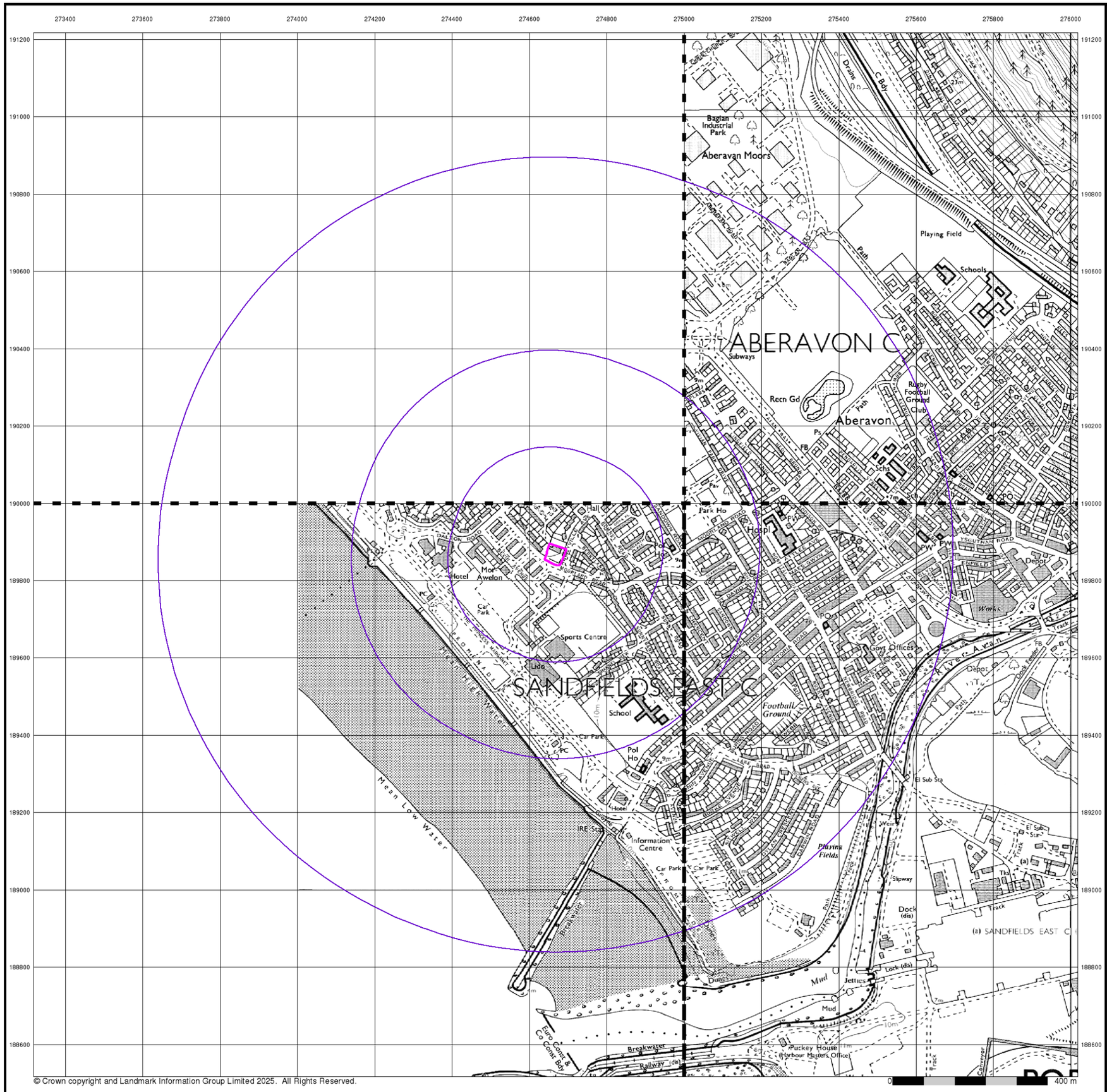
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Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

The Red Dragon, Moorland Road, PORT TALBOT, SA12 6JZ

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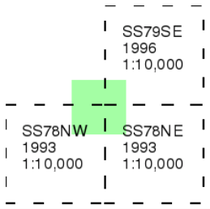
Ordnance Survey Plan

Published 1993 - 1996

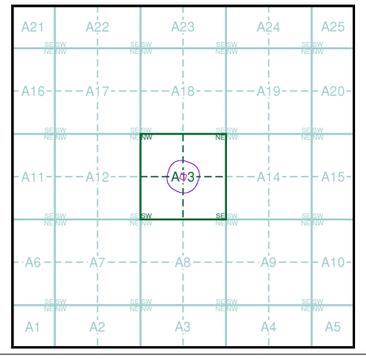
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

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10k Raster Mapping

Published 1999

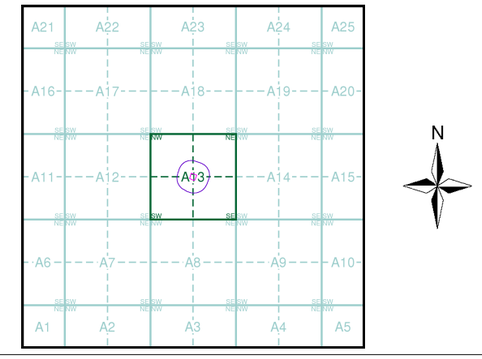
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

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SS78NW 1999 1:10,000	SS78NE 1999 1:10,000

Historical Map - Slice A



Order Details

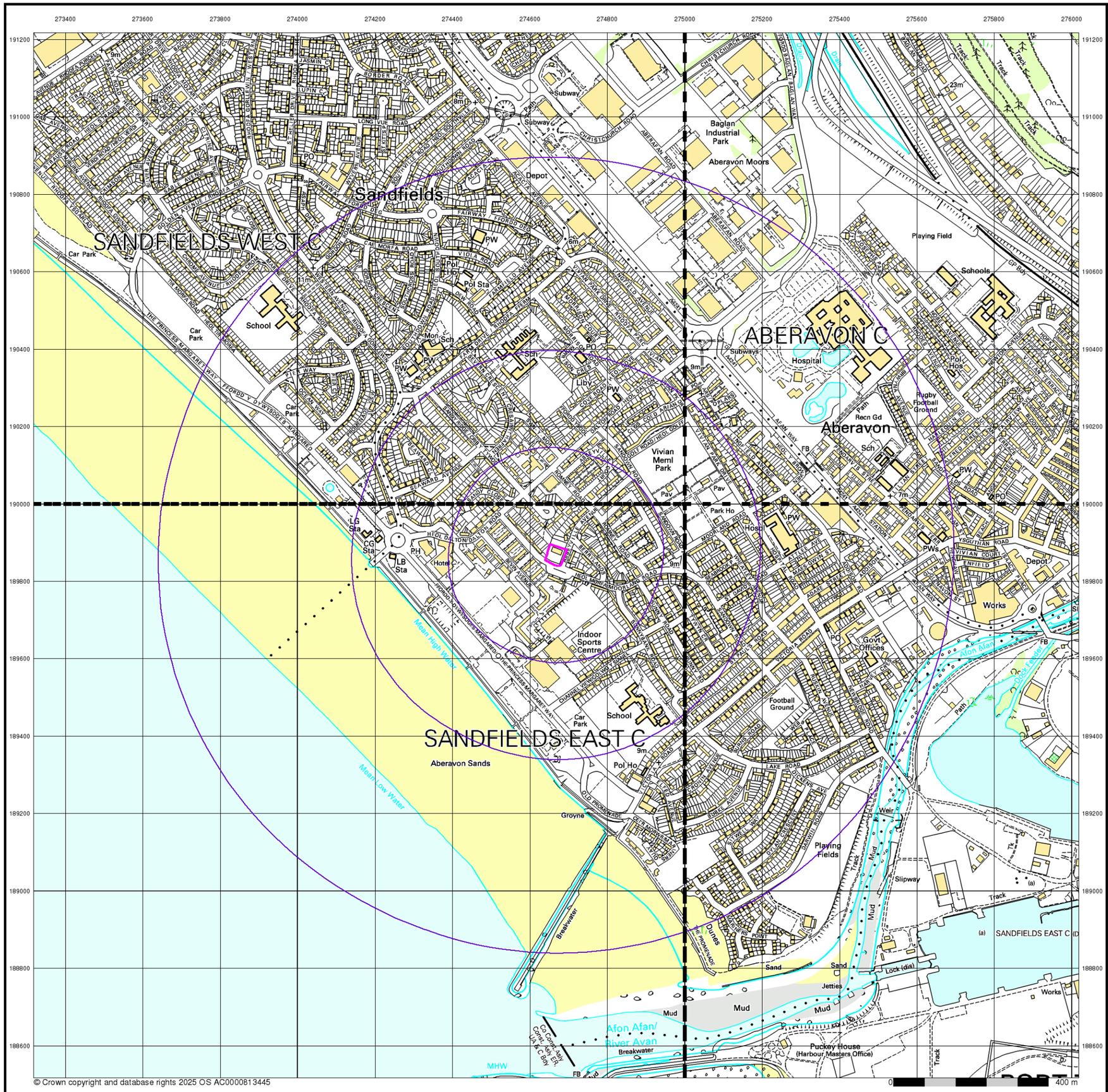
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10k Raster Mapping

Published 2006

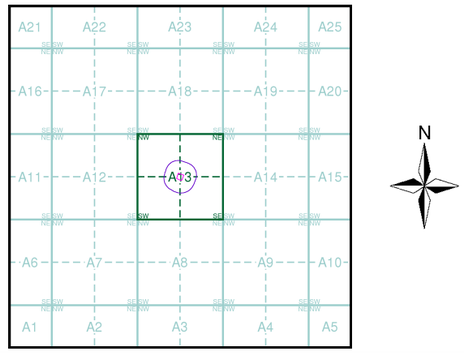
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS79SW 2006 1:10,000	SS79SE 2006 1:10,000
SS78NW 2006 1:10,000	SS78NE 2006 1:10,000

Historical Map - Slice A



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VectorMap Local

Published 2024

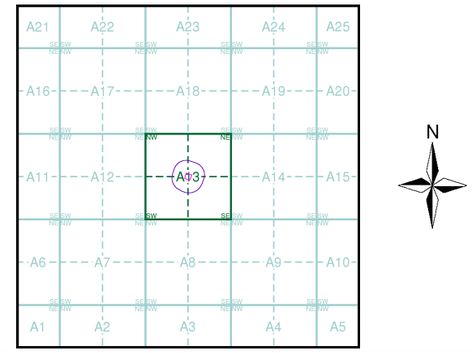
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SS79SW 2024 Variable	SS79SE 2024 Variable
SS78NW 2024 Variable	SS78NE 2024 Variable

Historical Map - Slice A



Order Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	TFD	Tidal Flat Deposits	Clay, Silt and Sand	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	BSA	Blown Sand	Sand	Not Supplied - Quaternary
	MBD	Marine Beach Deposits	Sand	Not Supplied - Quaternary
	MBD	Marine Beach Deposits	Sand and Gravel	Not Supplied - Quaternary
	STOB	Storm Beach Deposits	Gravel	Not Supplied - Quaternary
	RSBD	Raised Storm Beach Deposits	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	BD	Brithdir Member	Sandstone	Not Supplied - Westphalian
	BD	Brithdir Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWLCM	South Wales Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
		Faults		
		Rock Segments		

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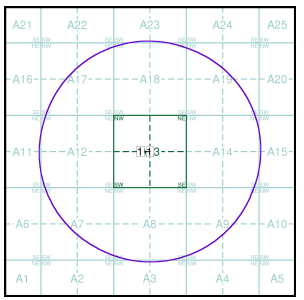
Geology 1:50,000 Maps

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

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**247**
Map Name:	**Swansea**
Map Date:	**2011**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A

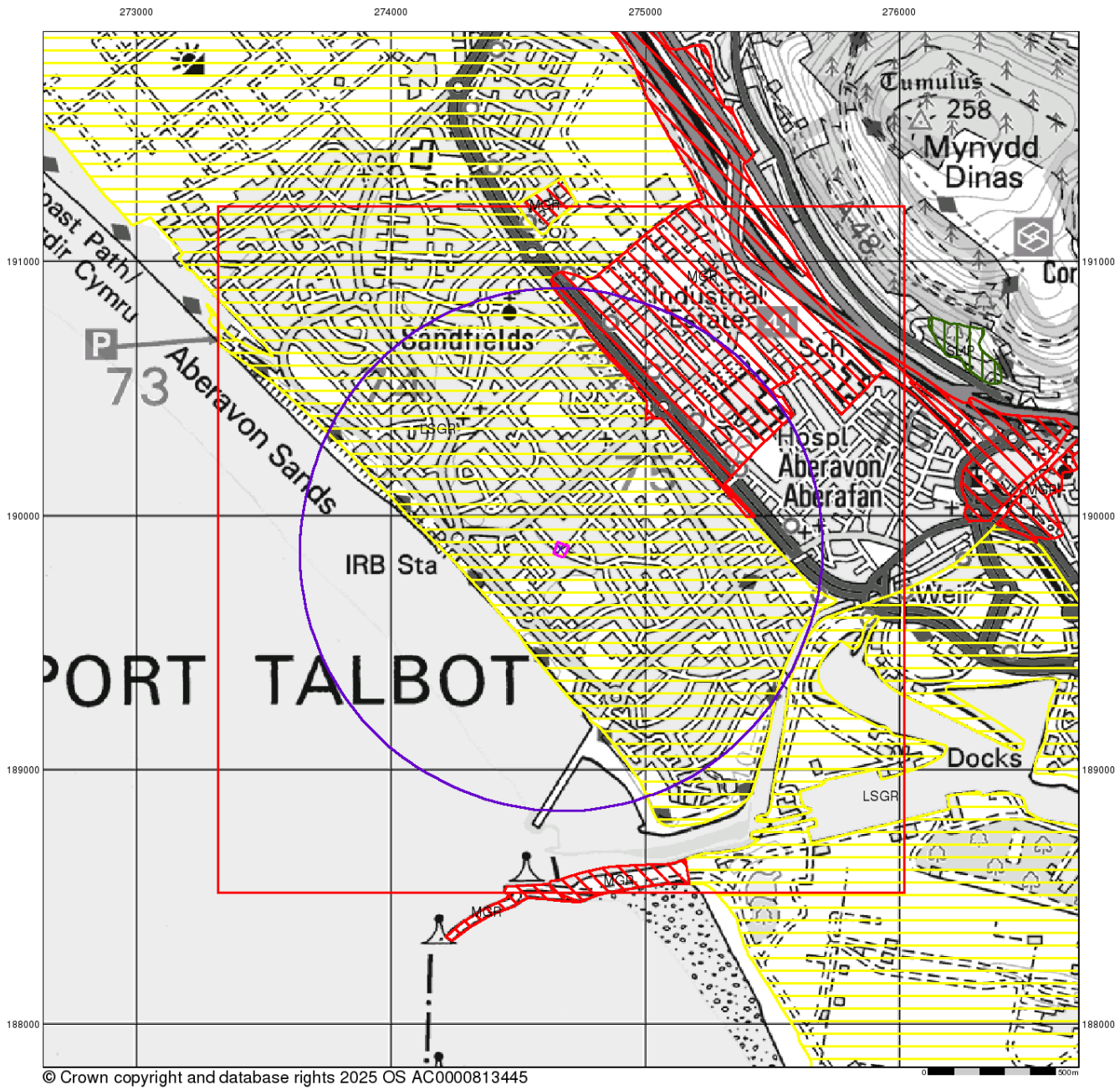


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Search Buffer (m):	1000

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Artificial Ground and Landslip

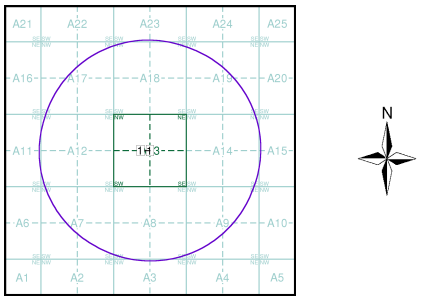
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A

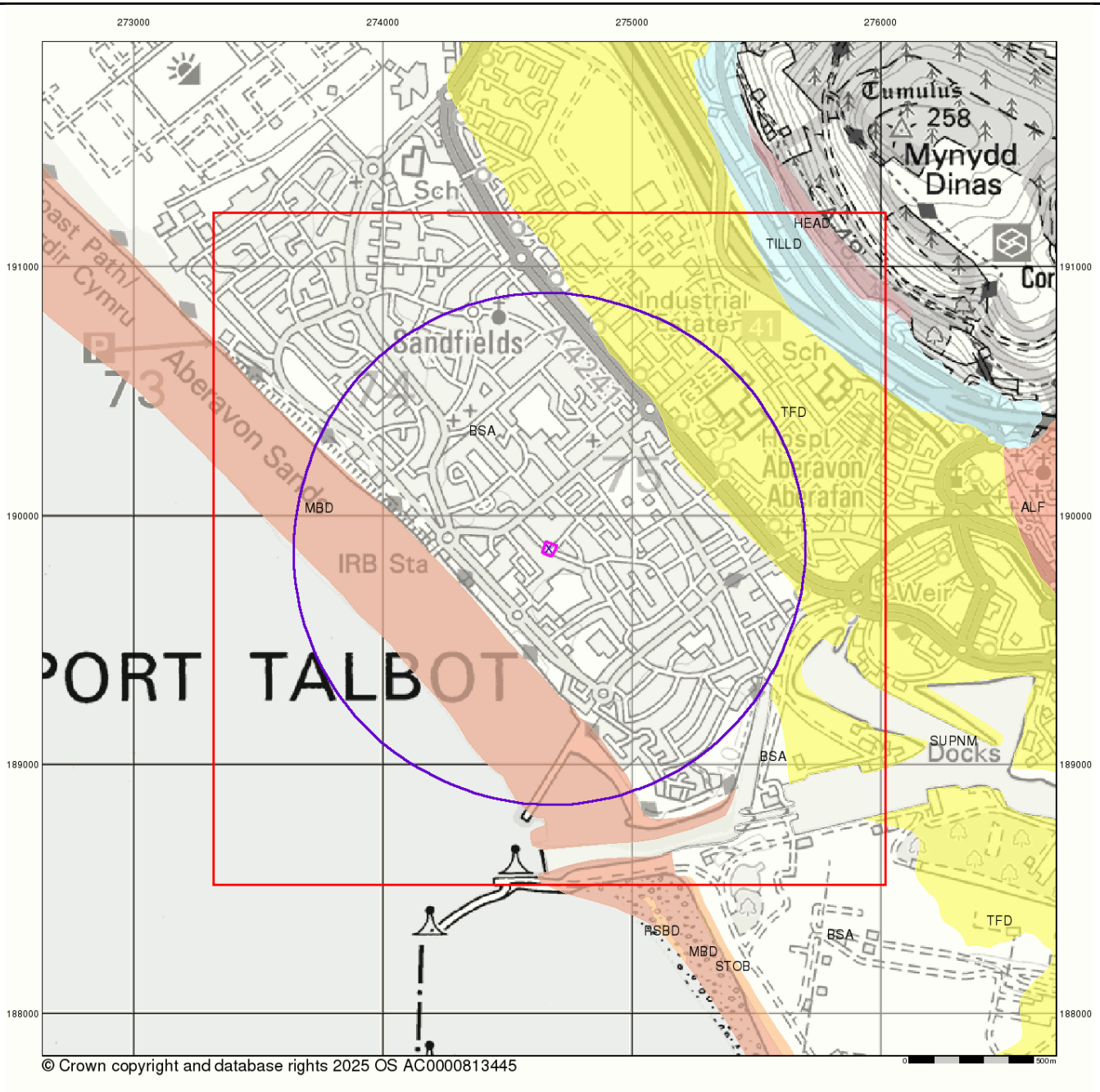


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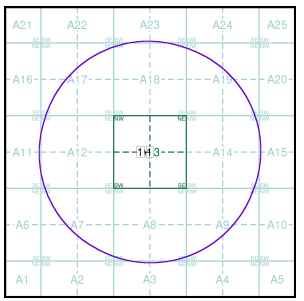
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



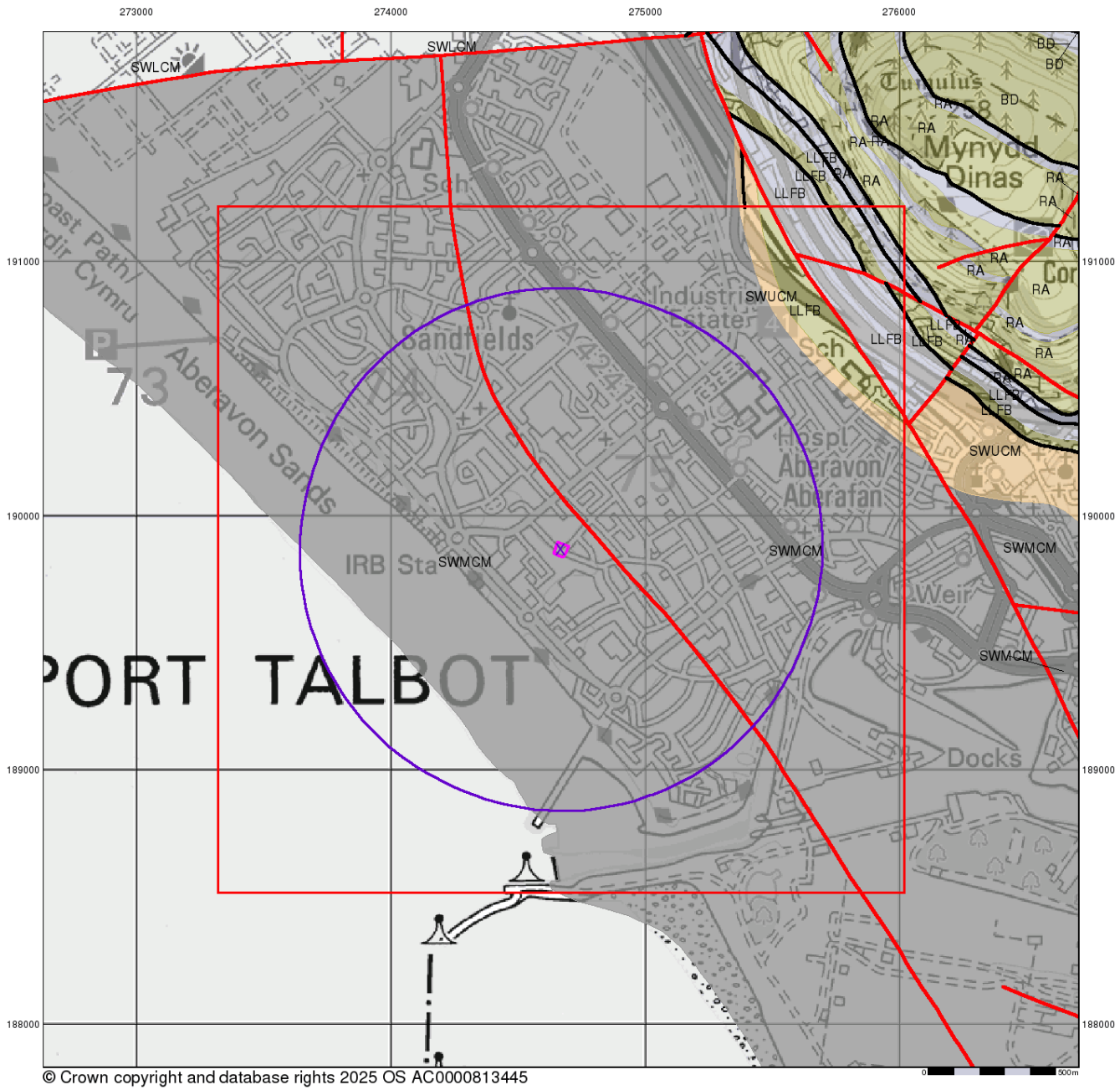
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Bedrock and Faults

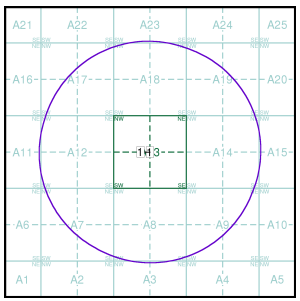
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



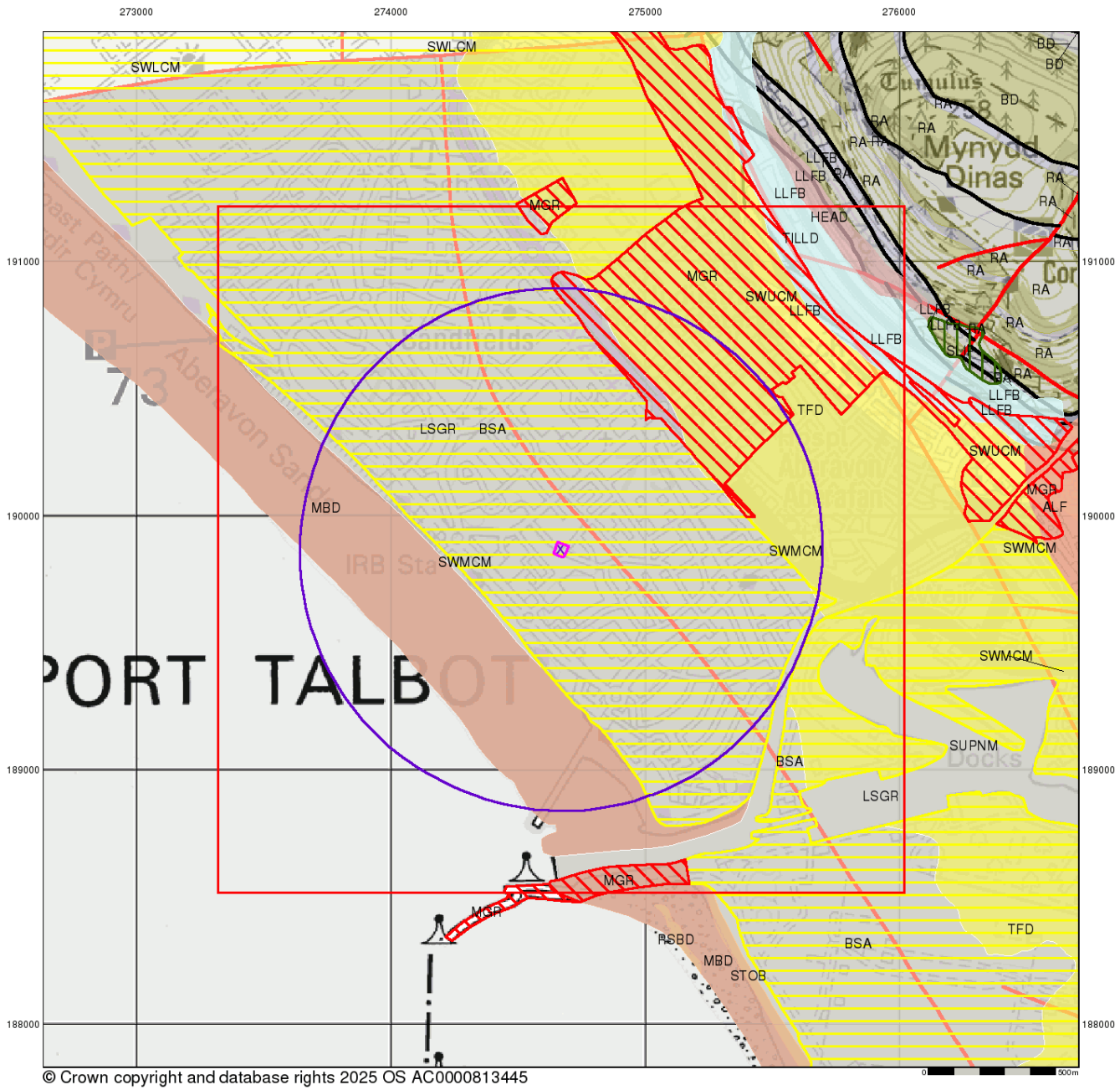
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Combined Surface Geology

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

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

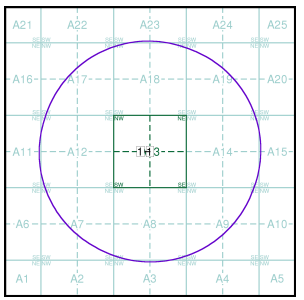
Additional Information

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

Contact

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

Combined Geology Map - Slice A

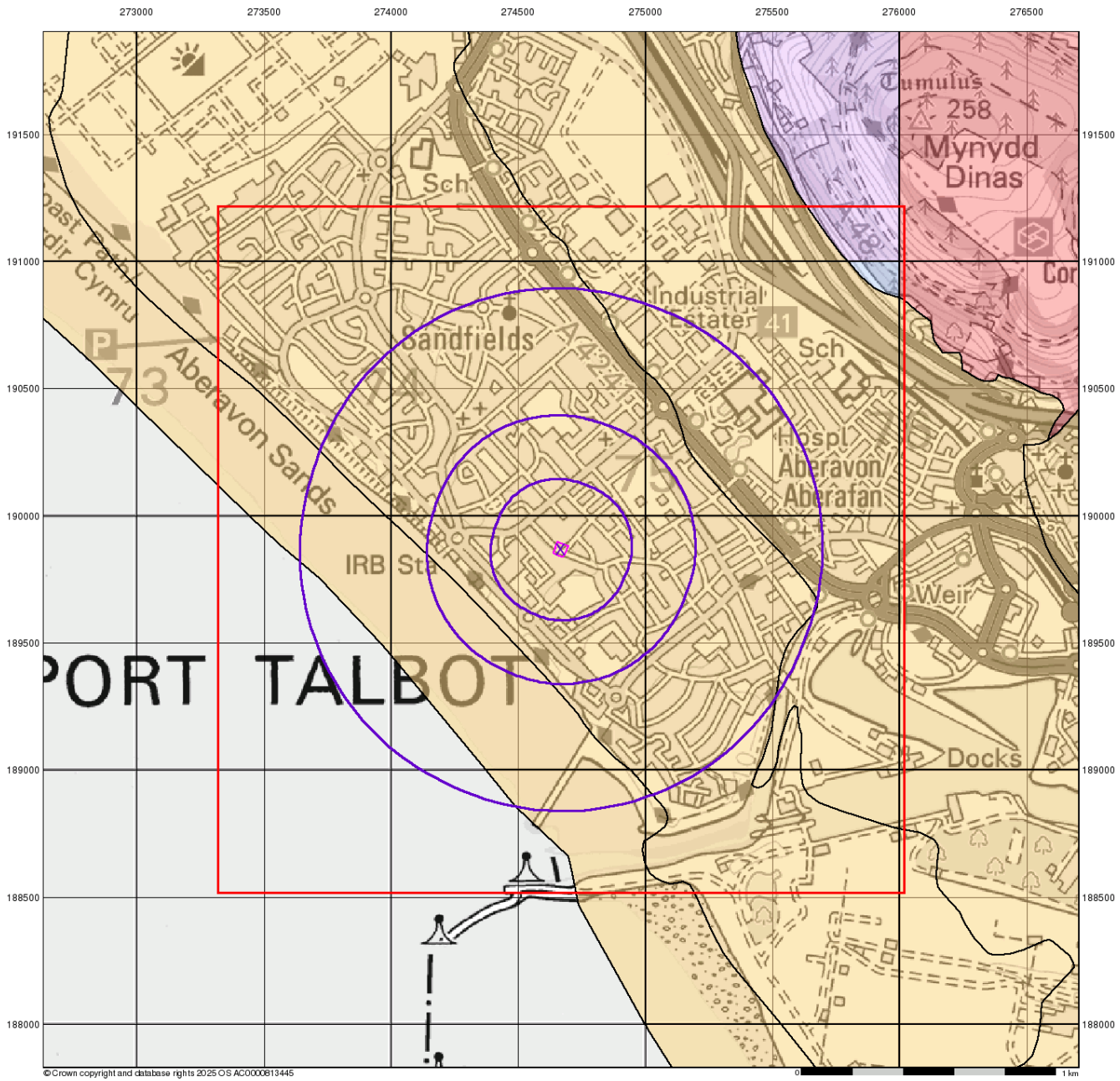


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Site Details:

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Groundwater Vulnerability

General

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

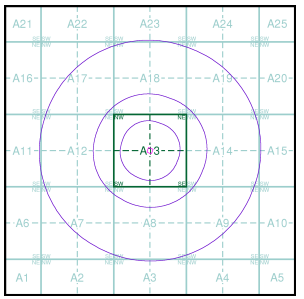
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A

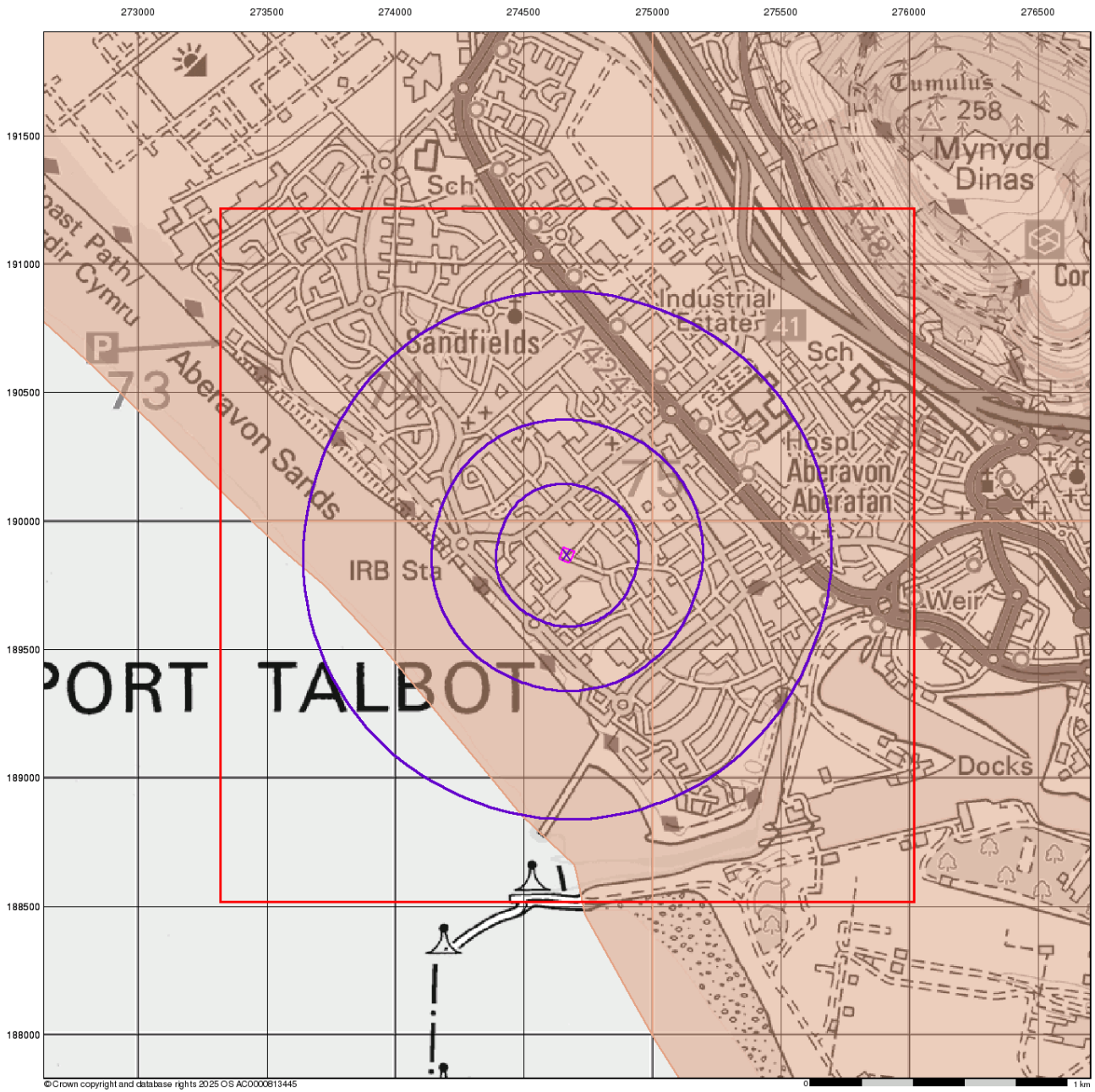


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Bedrock Aquifer Designation

General

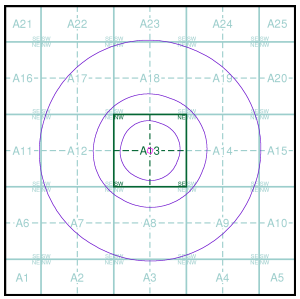
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

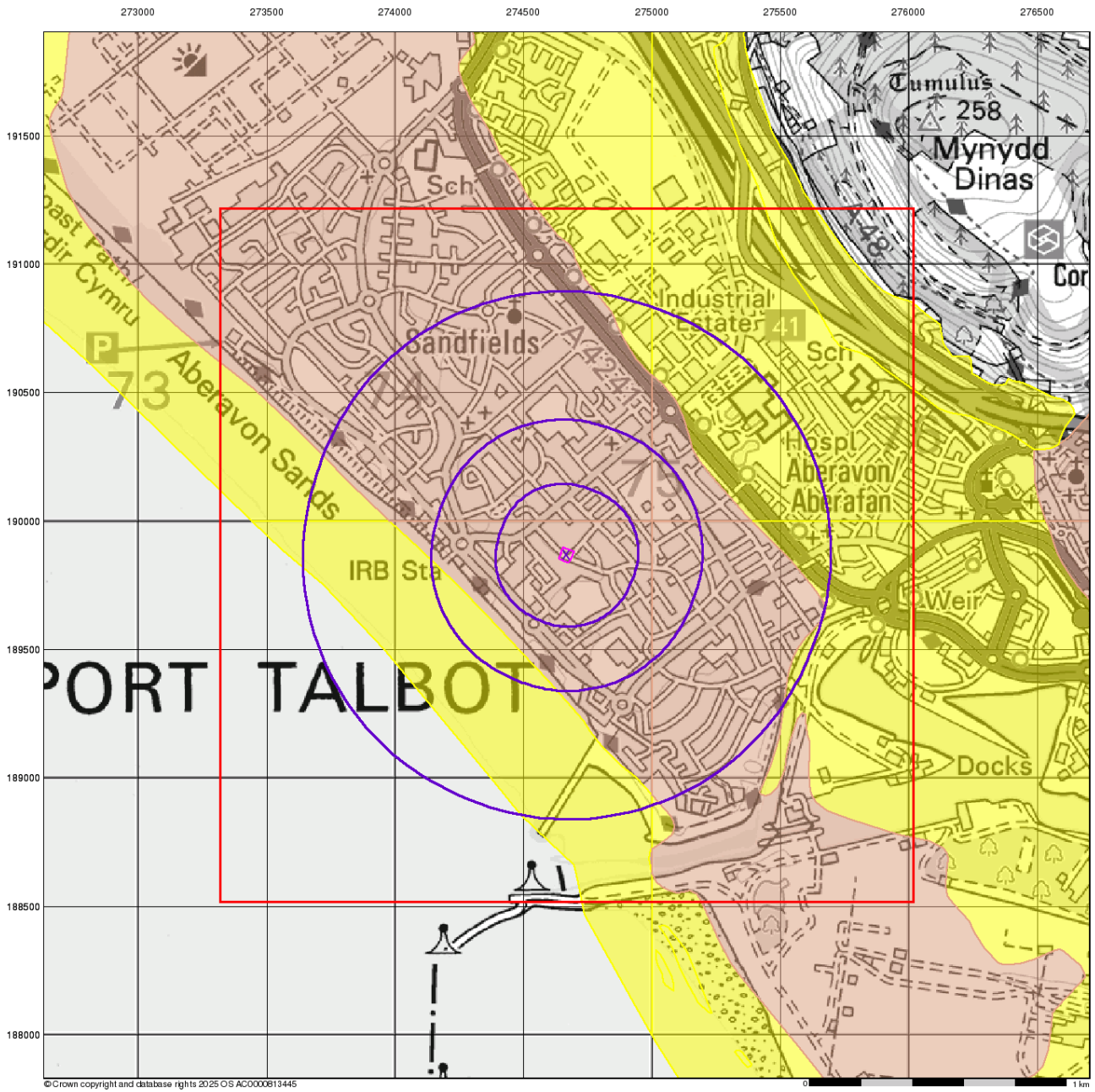


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Superficial Aquifer Designation

General

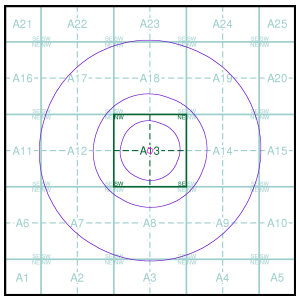
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

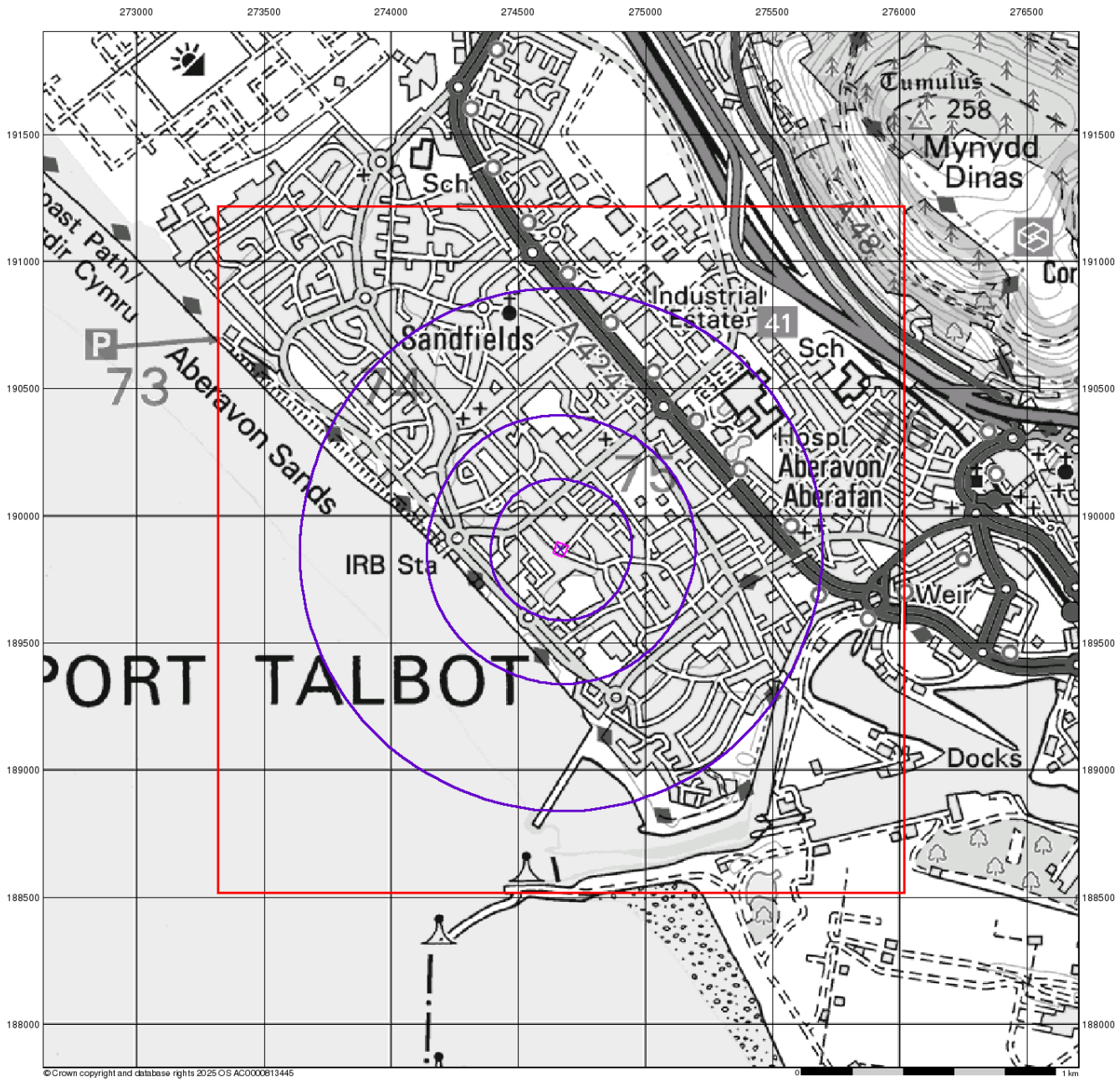
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

The Red Dragon, Moorland Road, PORT TALBOT, SA12 6JZ

Landmark® INFORMATION GROUP

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Source Protection Zones

General

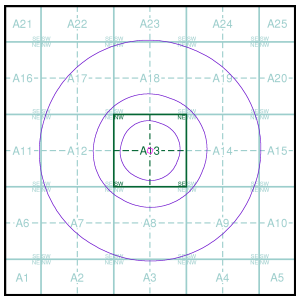
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A

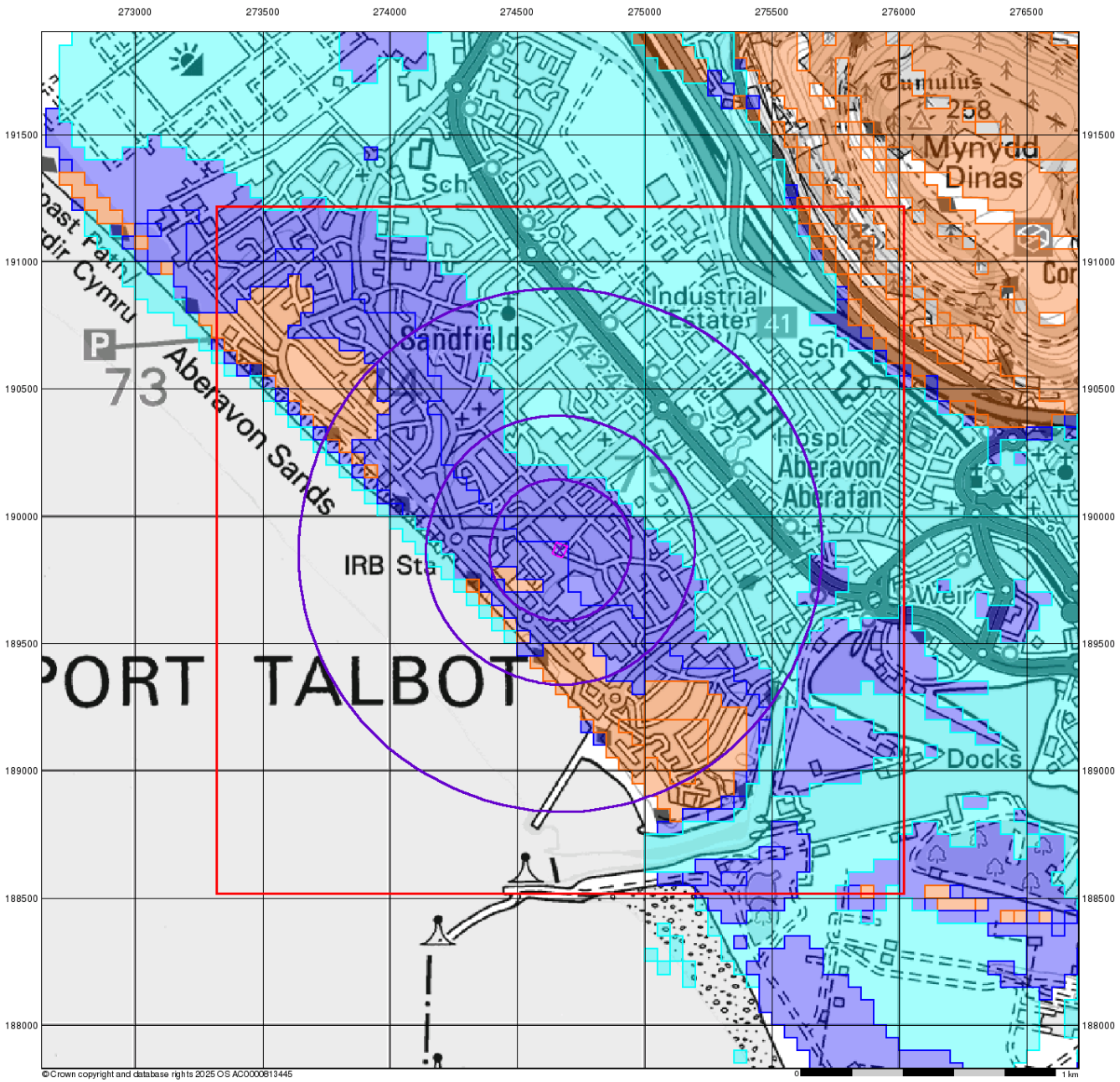


Order Details

Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

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BGS Flood GFS Data

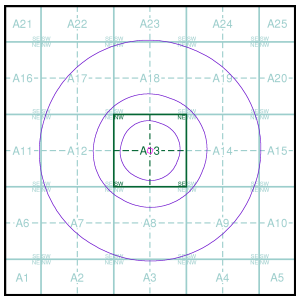
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

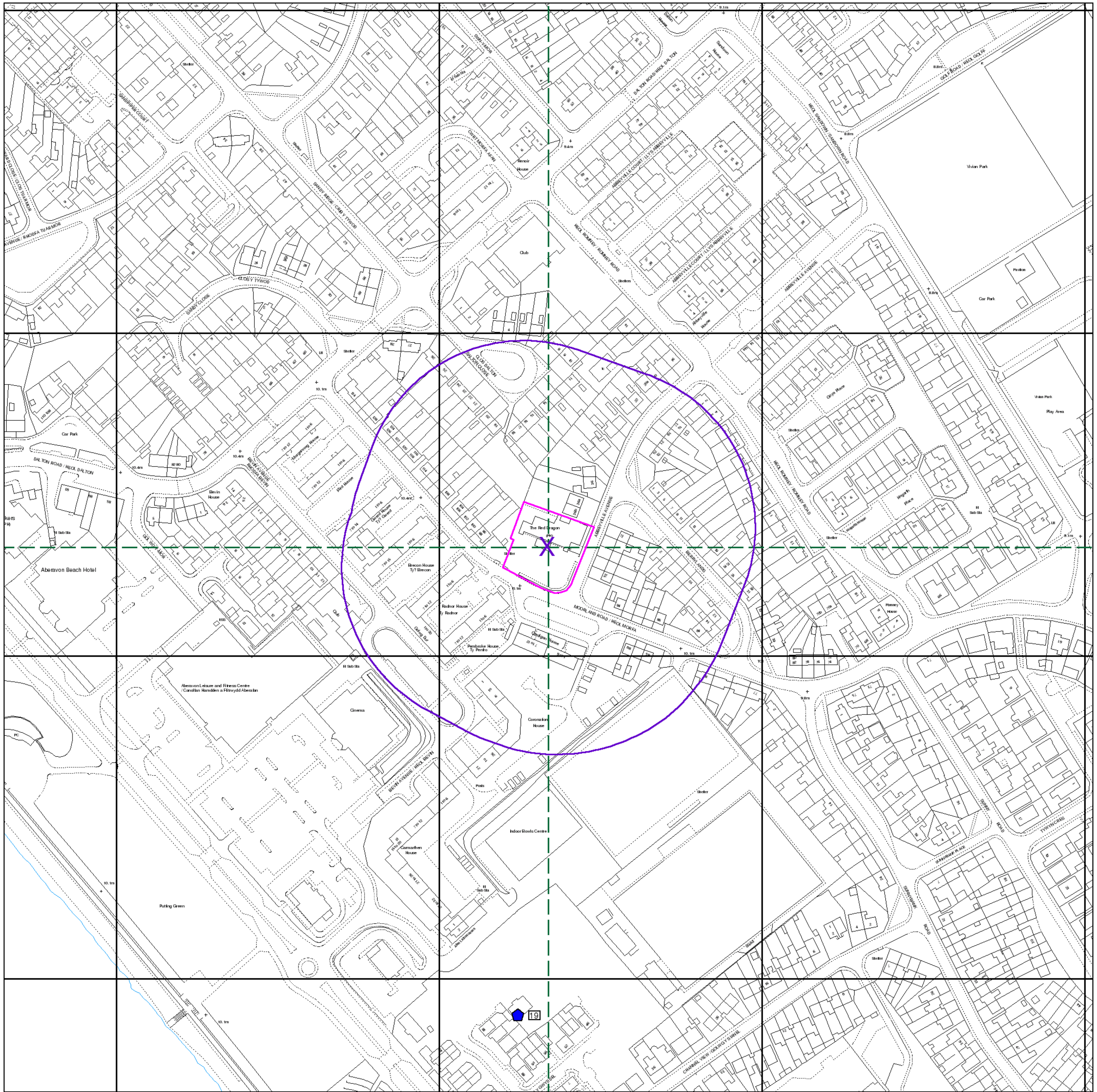
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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- 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
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

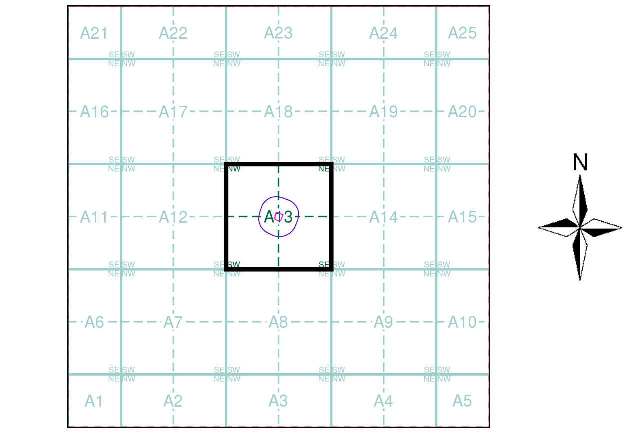
Hazardous Substances

- 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

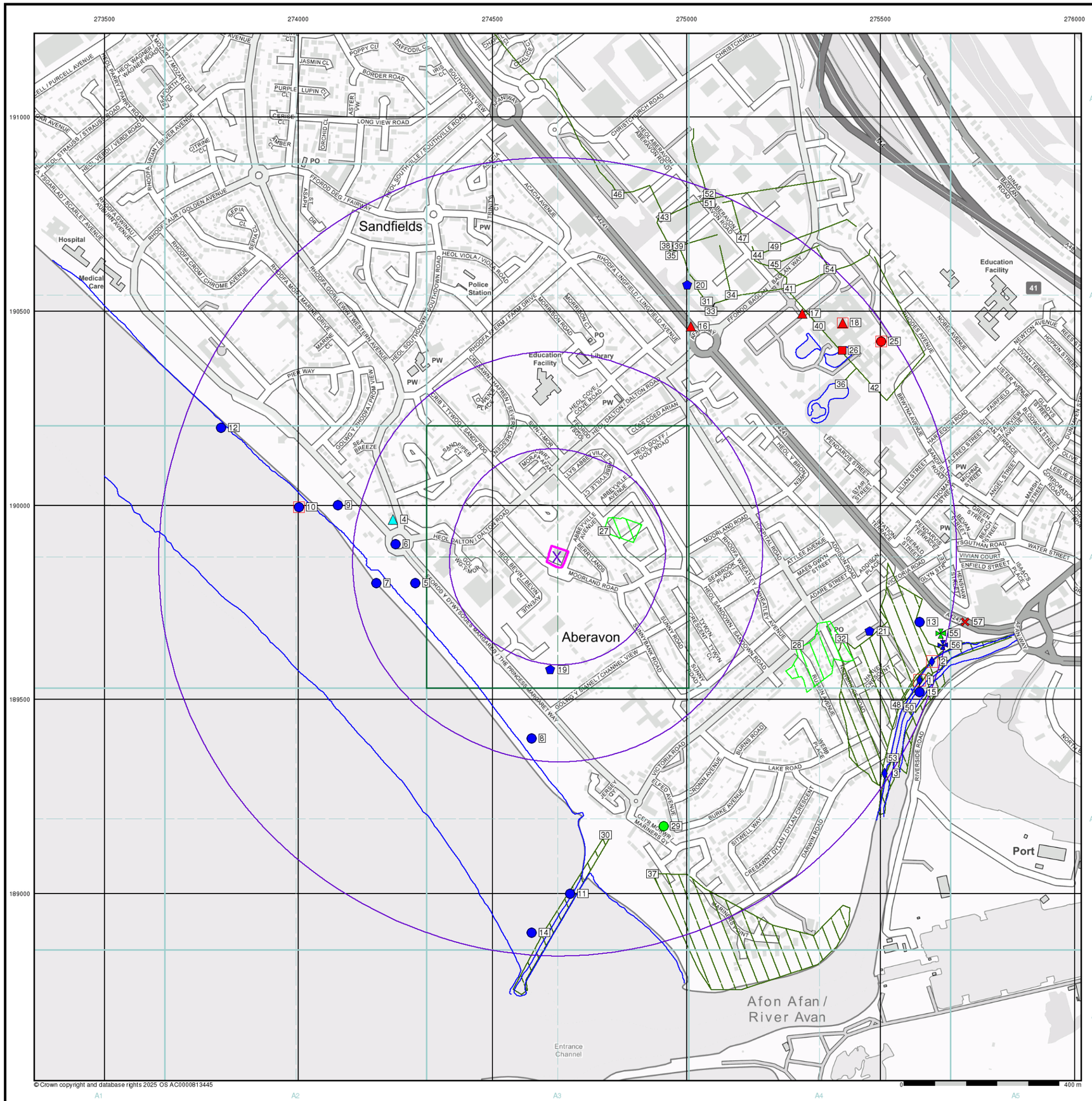
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Plot Buffer (m):	100

Site Details

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General

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

Agency and Hydrological

- 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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

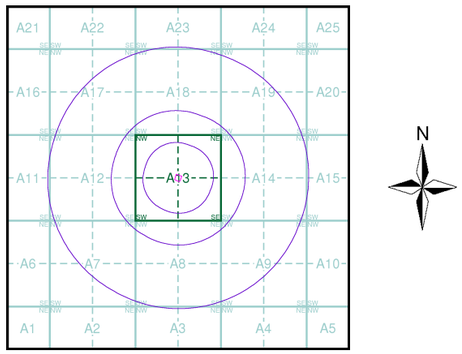
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

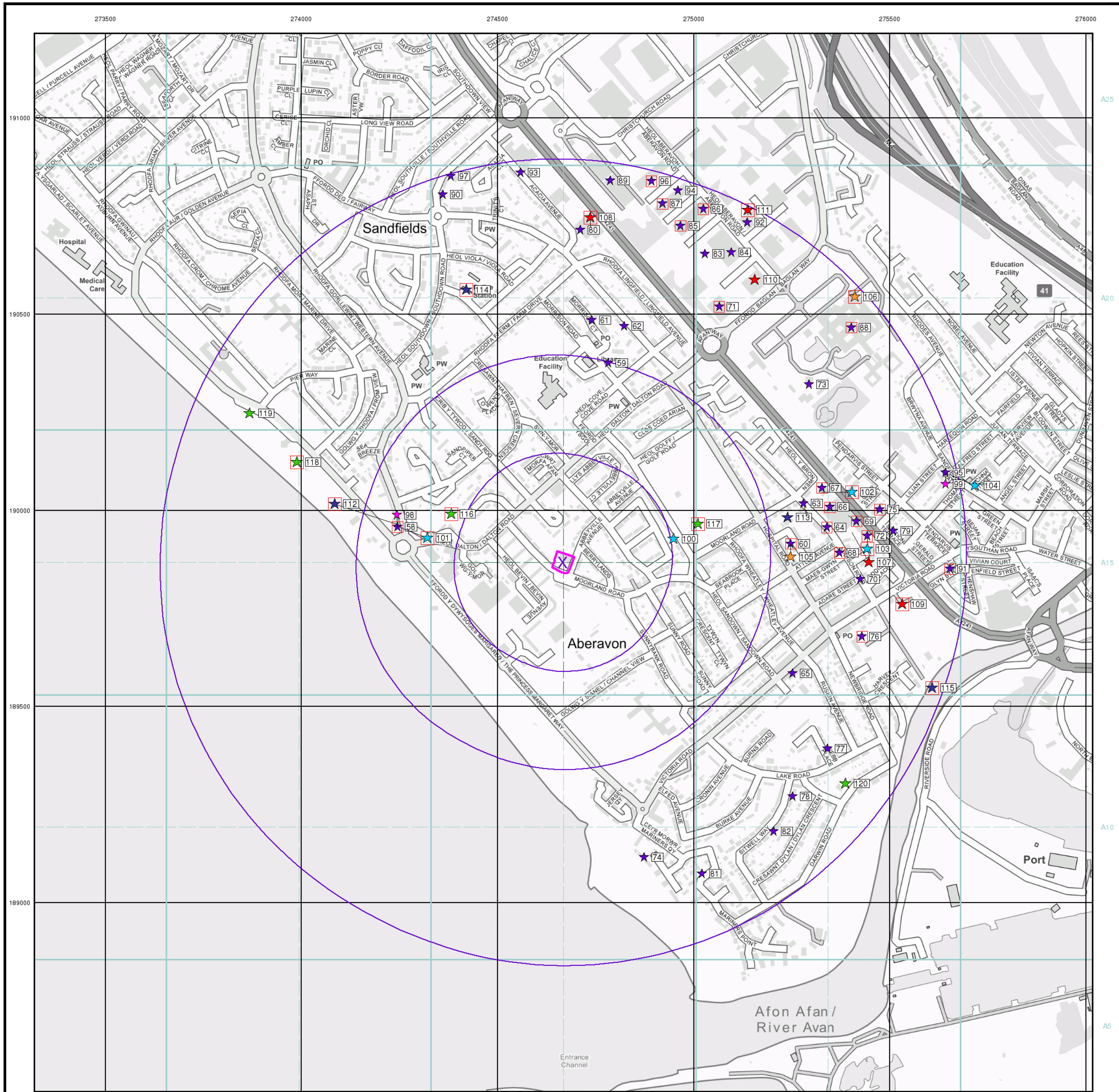
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

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Industrial Land Use Map

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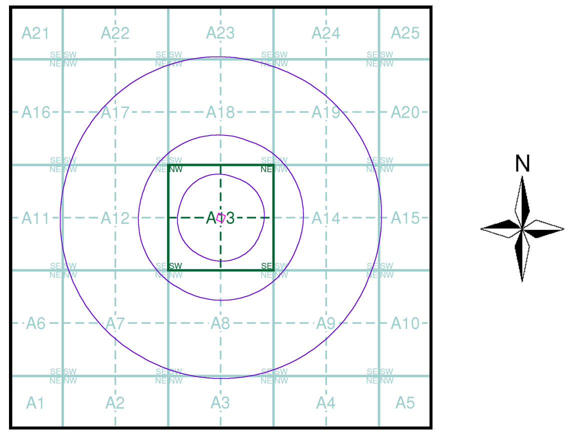
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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: 373531279_1_1
Customer Ref: TF-24-275
National Grid Reference: 274670, 189870
Slice: A
Site Area (Ha): 0.21
Search Buffer (m): 1000

Site Details

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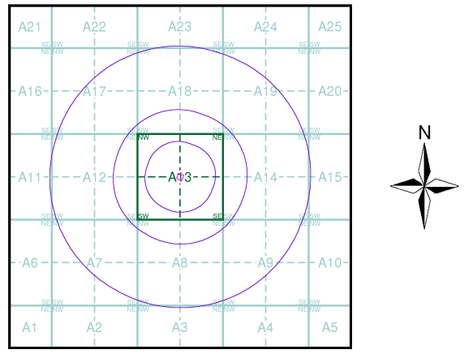
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

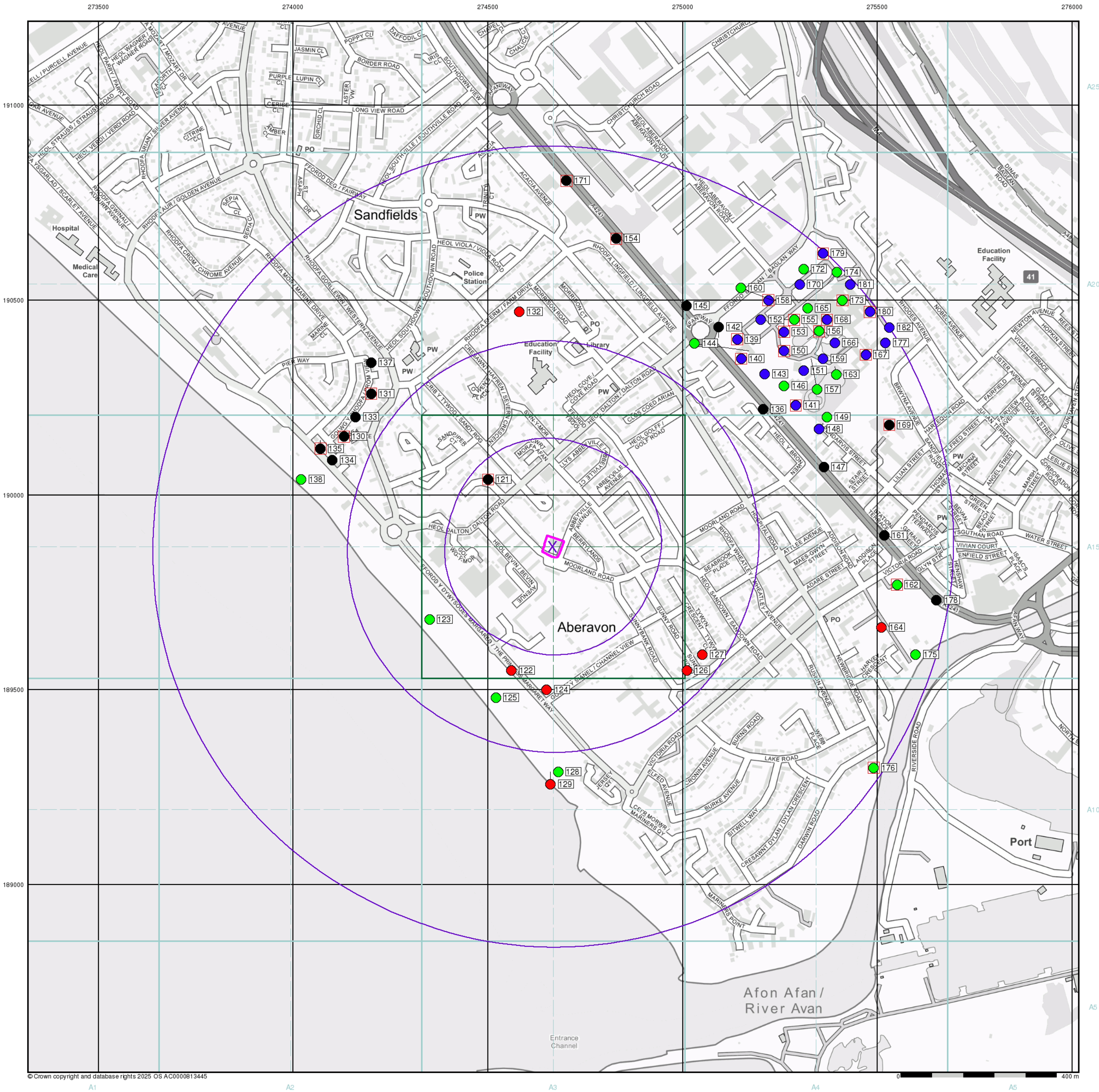
Site Details

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General

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

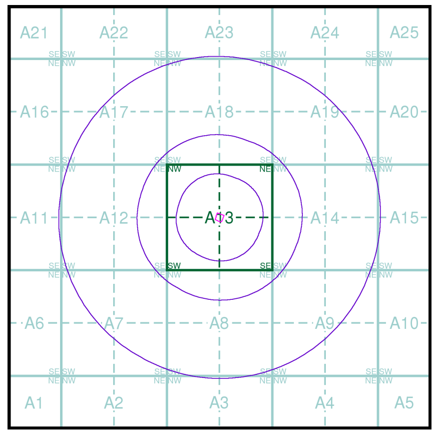
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



N

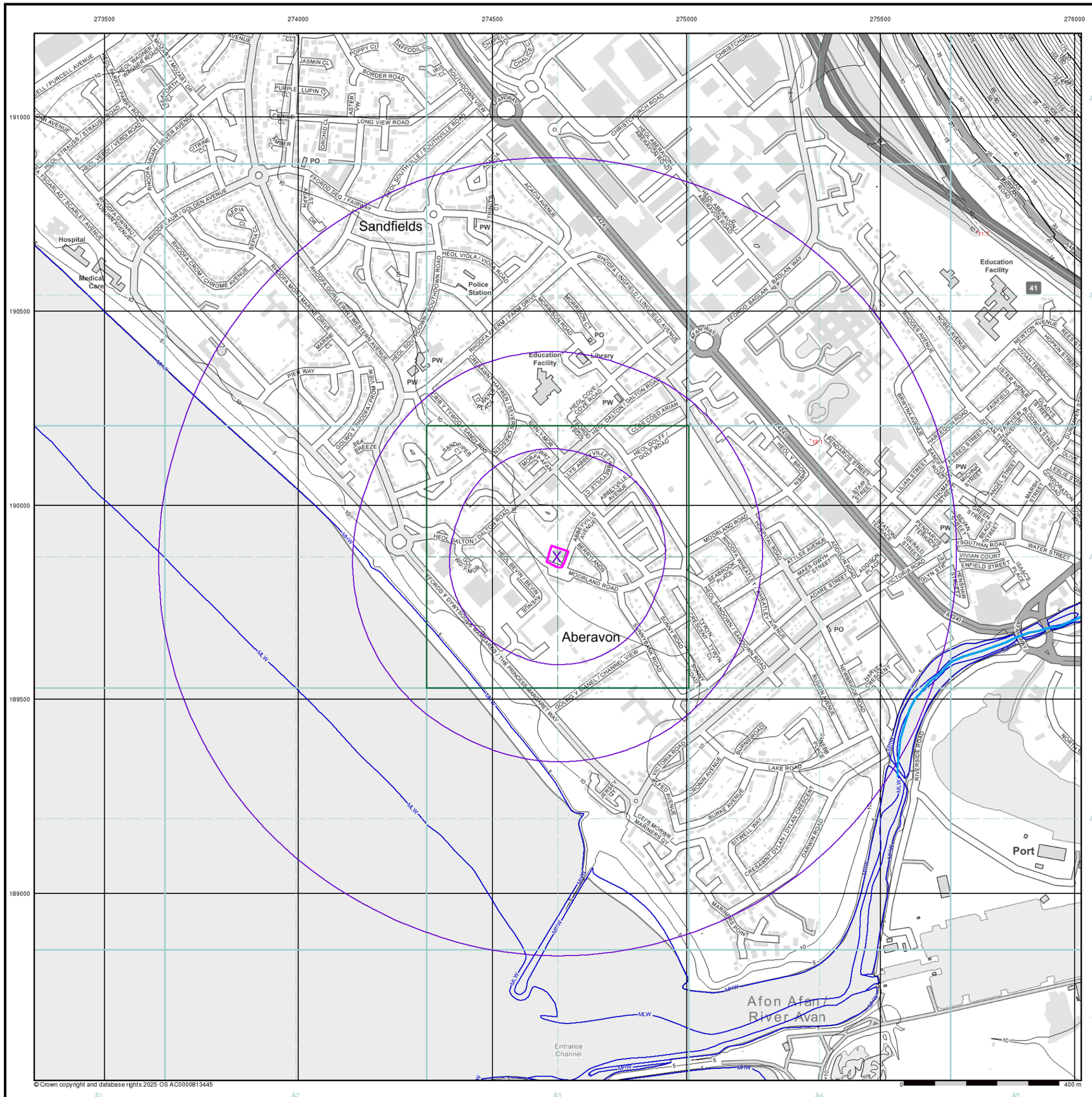
Order Details

Order Number: 373531279_1_1
Customer Ref: TF-24-275
National Grid Reference: 274670, 189870
Slice: A
Site Area (Ha): 0.21
Search Buffer (m): 1000

Site Details

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General

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

OS Water Network Data

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

Contours (height in meters)

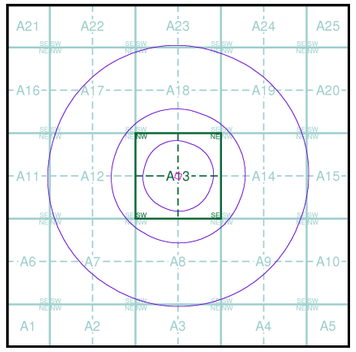
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

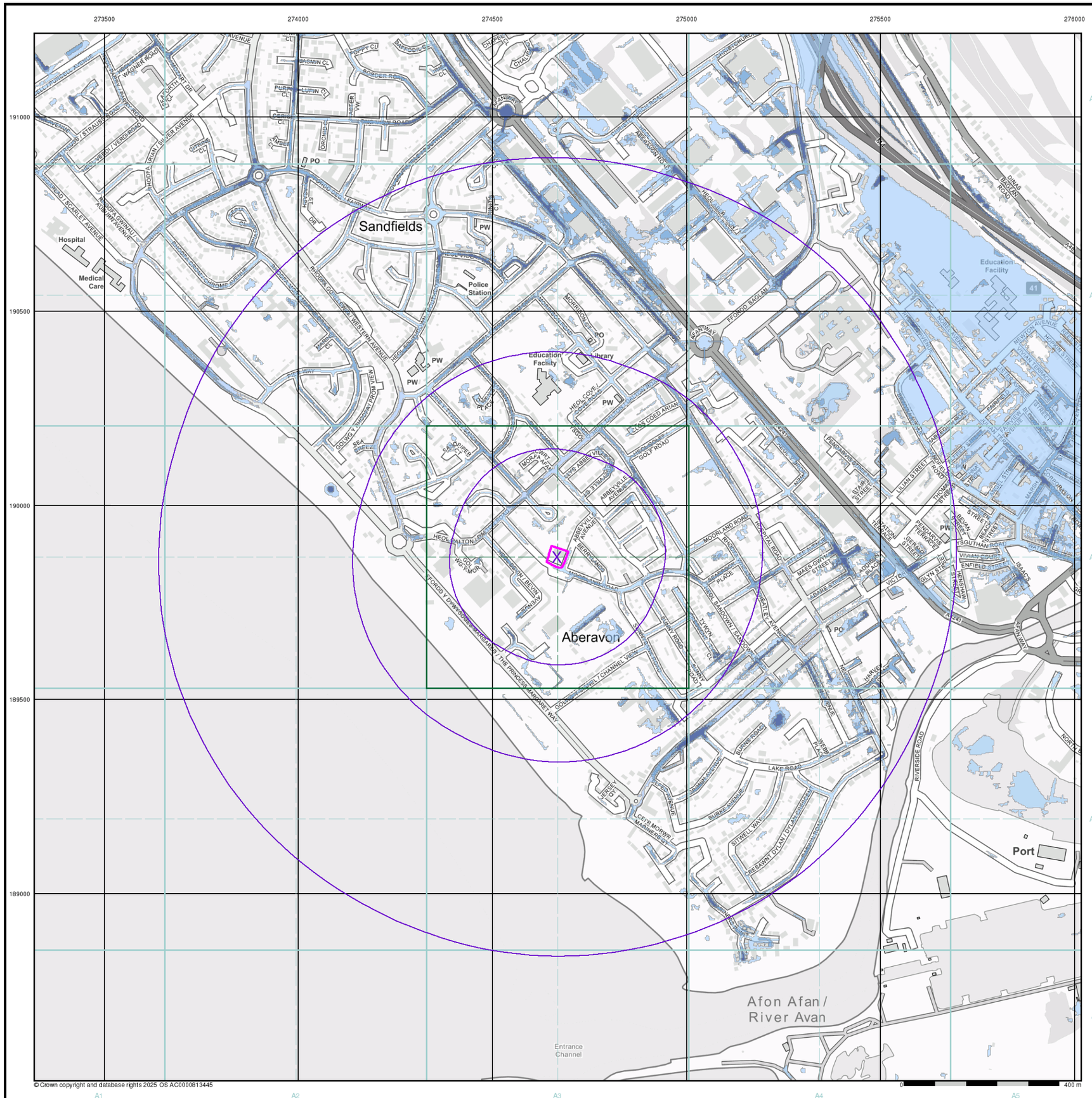
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

Site Details

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General

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

Risk of Flooding from Surface Water

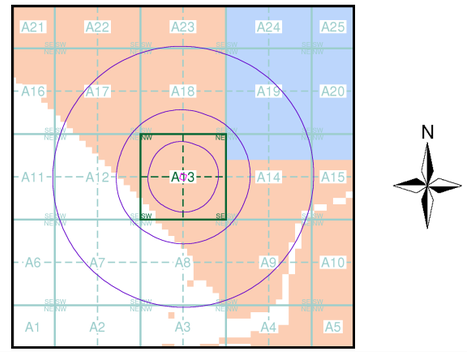
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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

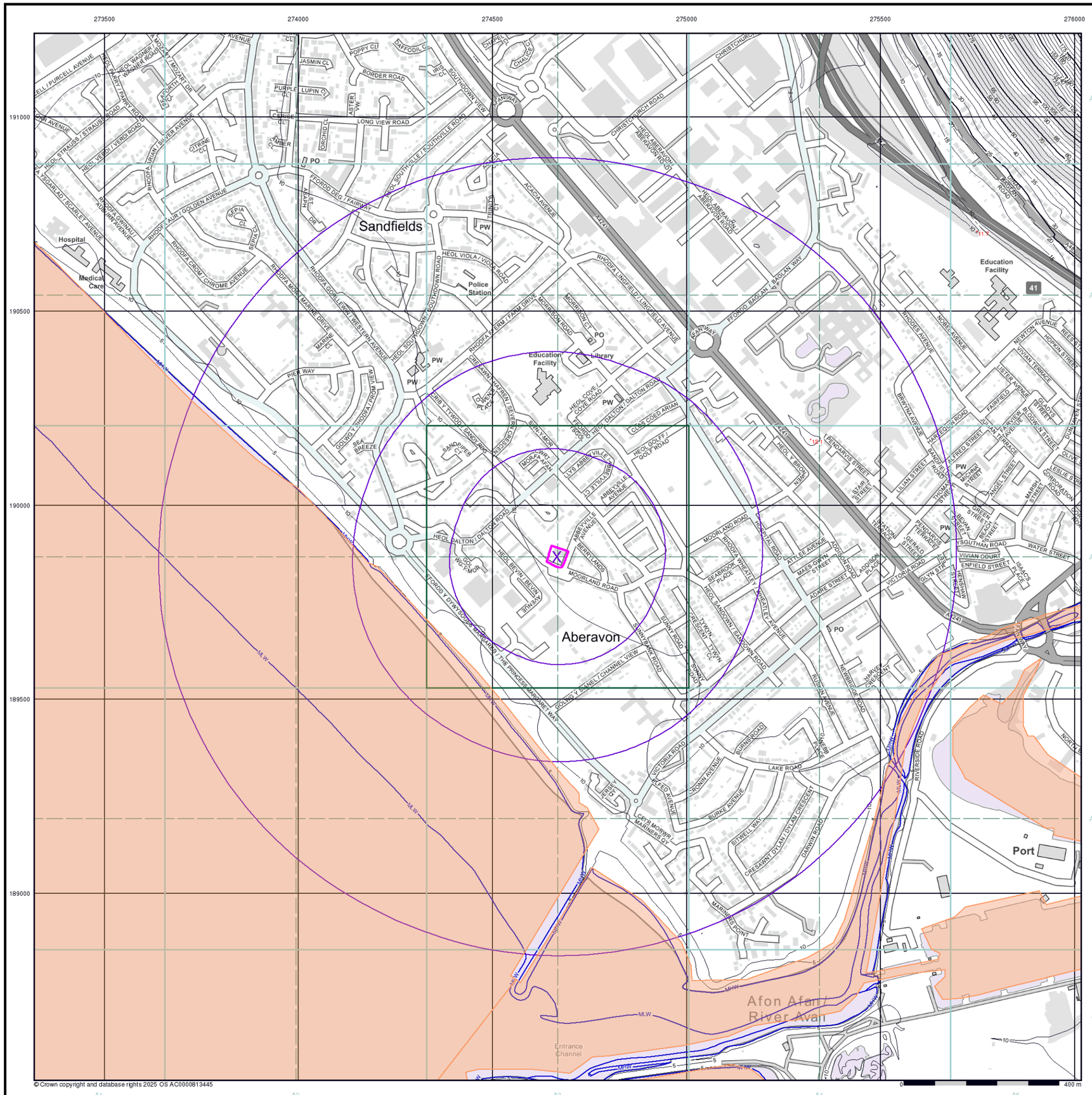
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

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WFD Surface Waters Map

General

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

Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour 105 100 95

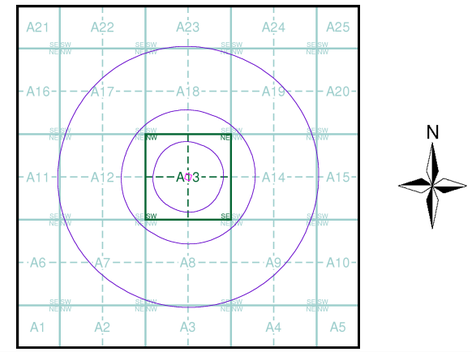
Master Contour

Spot Height * 167.3

MLW Mean Low Water

MHW Mean High Water

WFD Surface Waters Map - Slice A



Order Details

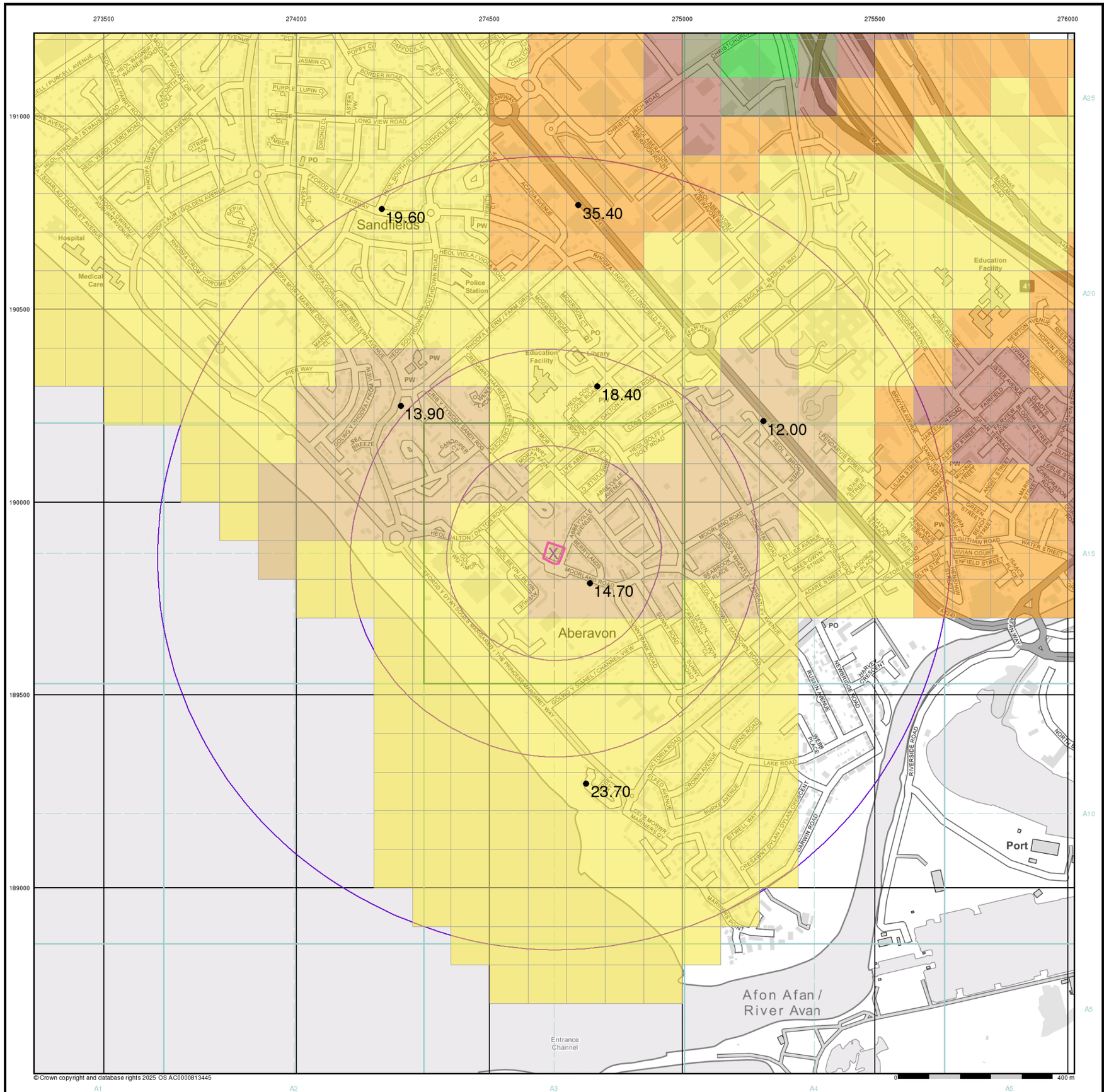
Order Number:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search Buffer (m):	1000

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

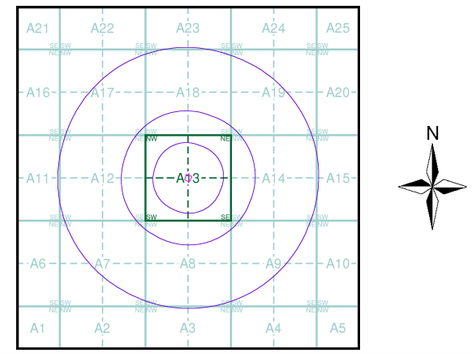
Urban Soil Chemistry Arsenic

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

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Urban Soil Chemistry Arsenic - Slice A



Order Details

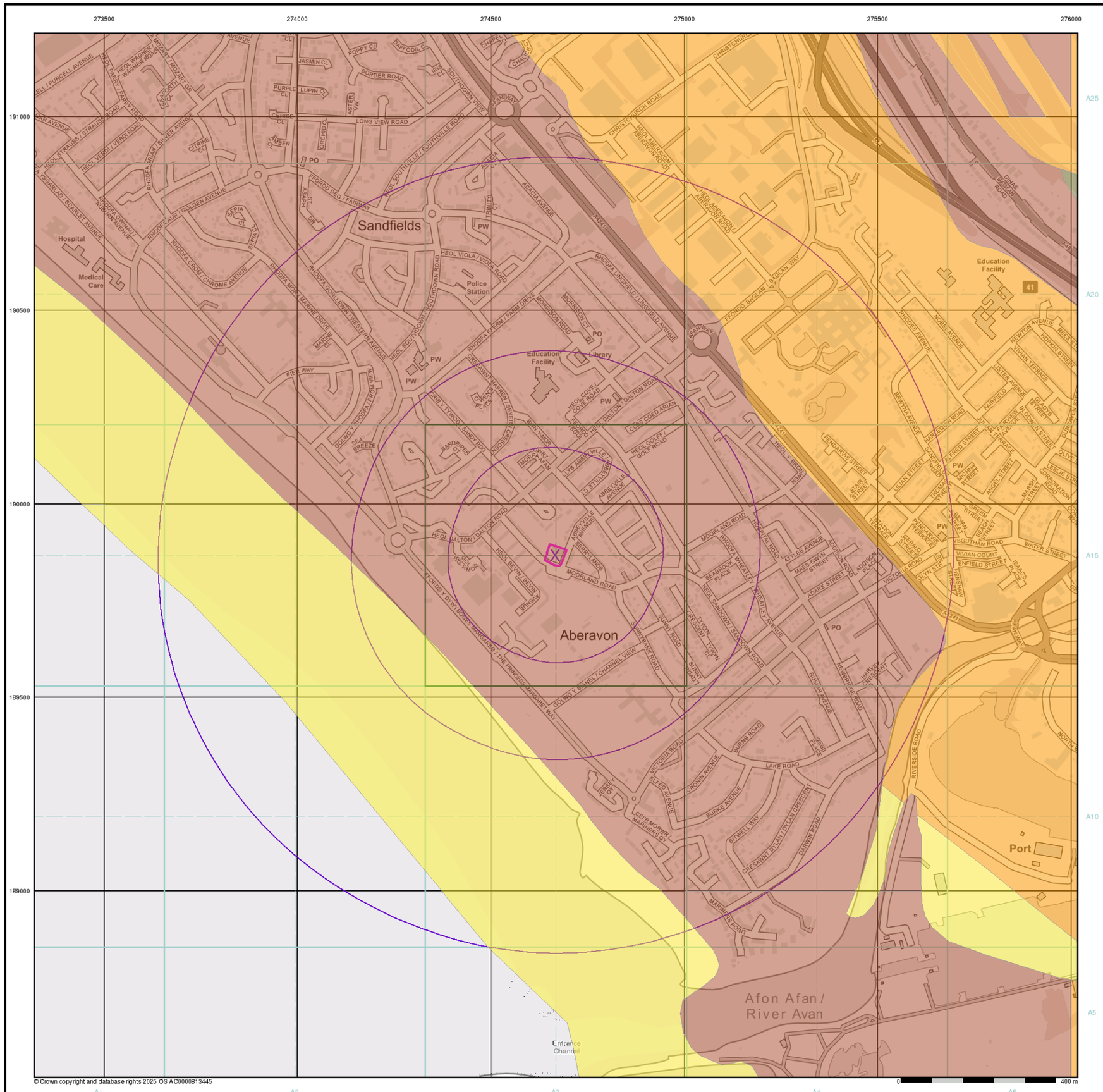
Order Details:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
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General

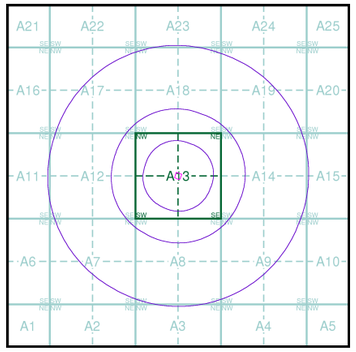
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



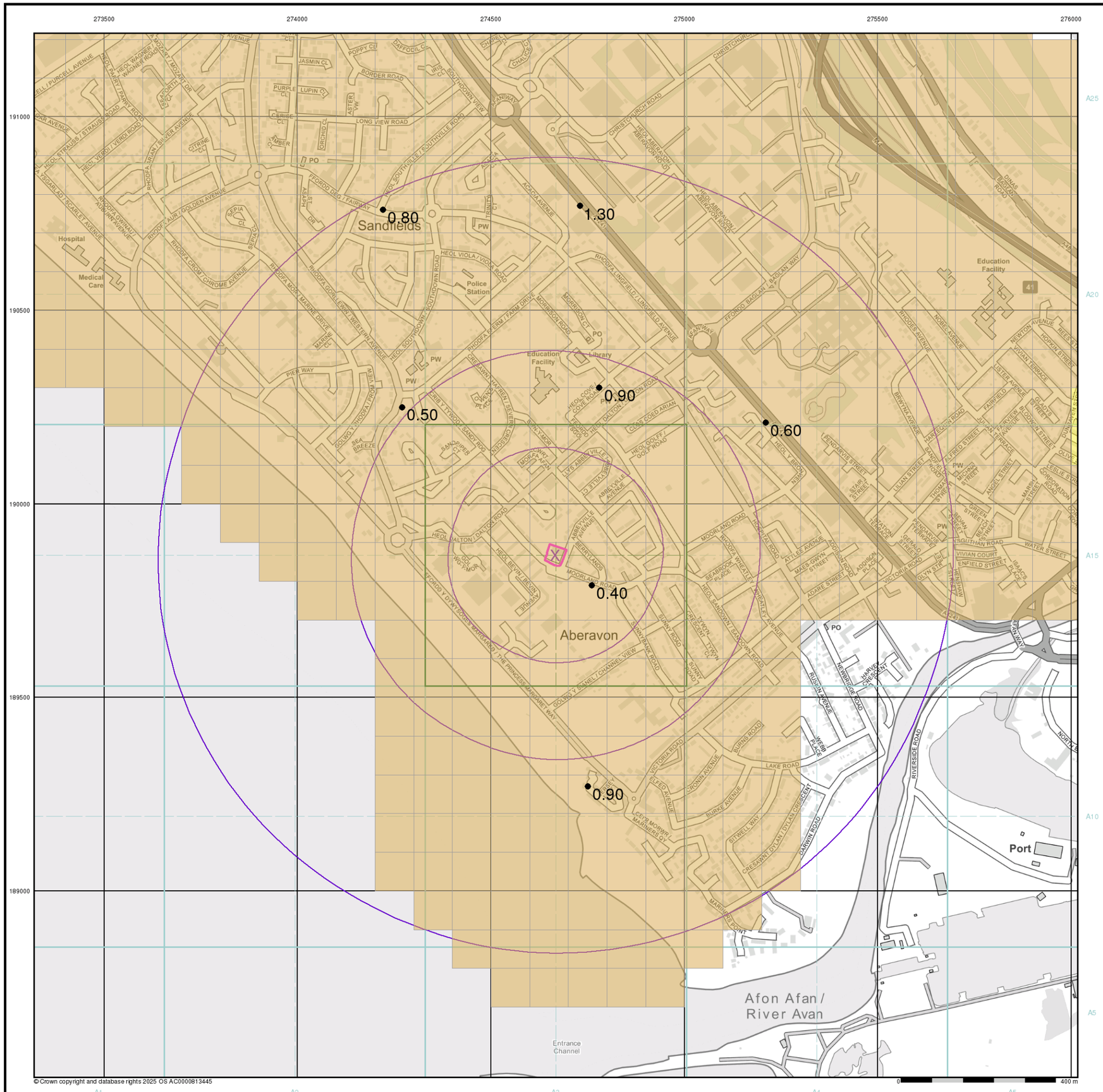
Order Details

Order Details:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
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General

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

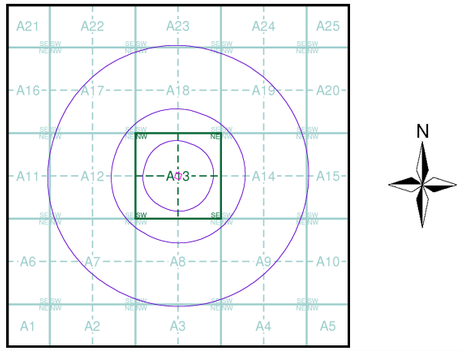
Urban Soil Chemistry Cadmium

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

Cadmium Concentrations mg/kg

< 1.8
1.8 - 2.2
2.2 - 3.0
> 3.0

Urban Soil Chemistry Cadmium - Slice A



Order Details

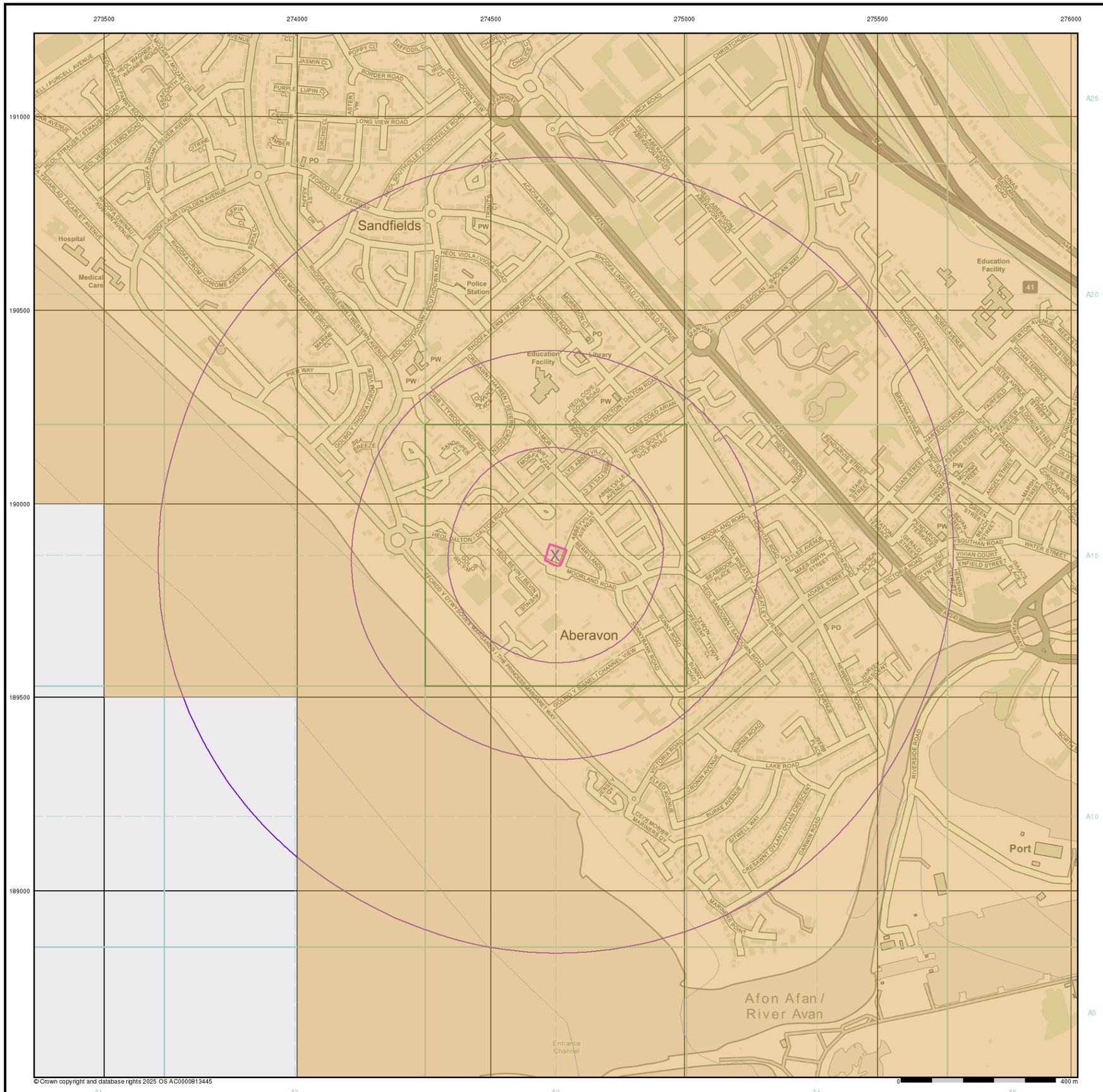
Order Details:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
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General

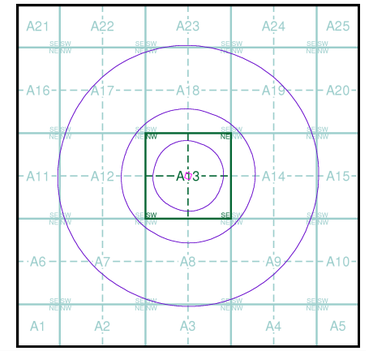
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

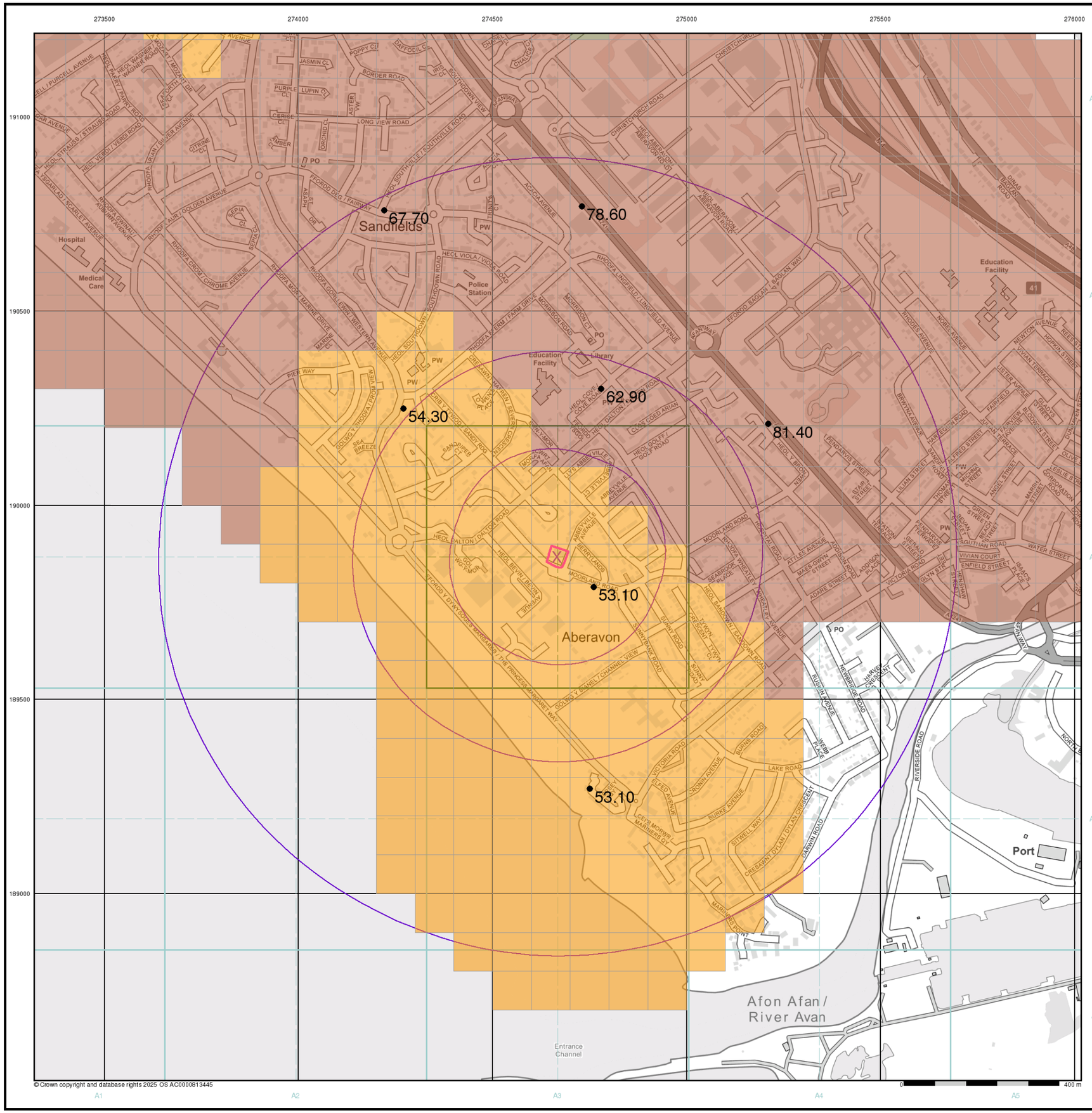
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Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
Slice:	A
Site Area (Ha):	0.21
Search buffer (m):	1000

Site Details

The Red Dragon, Moorland Road, PORT TALBOT, SA12 6JZ

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Specified Site Specified Buffer(s) X Bearing Reference Point

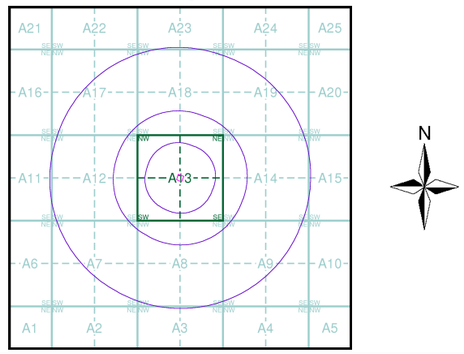
Urban Soil Chemistry Chromium

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

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Urban Soil Chemistry Chromium - Slice A



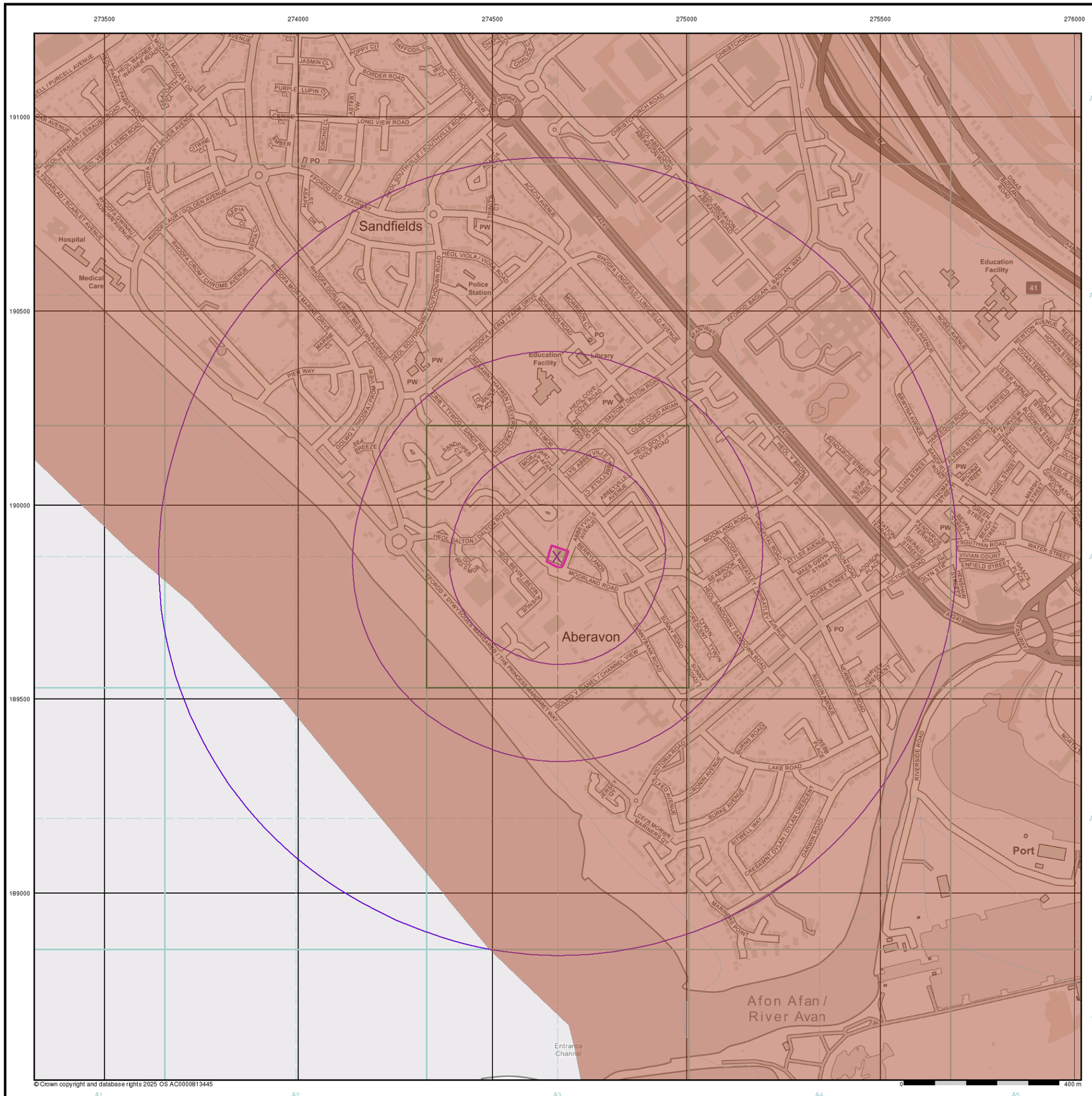
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Order Details:	373531279_1_1
Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
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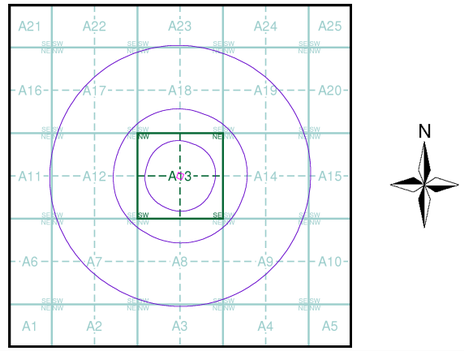
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

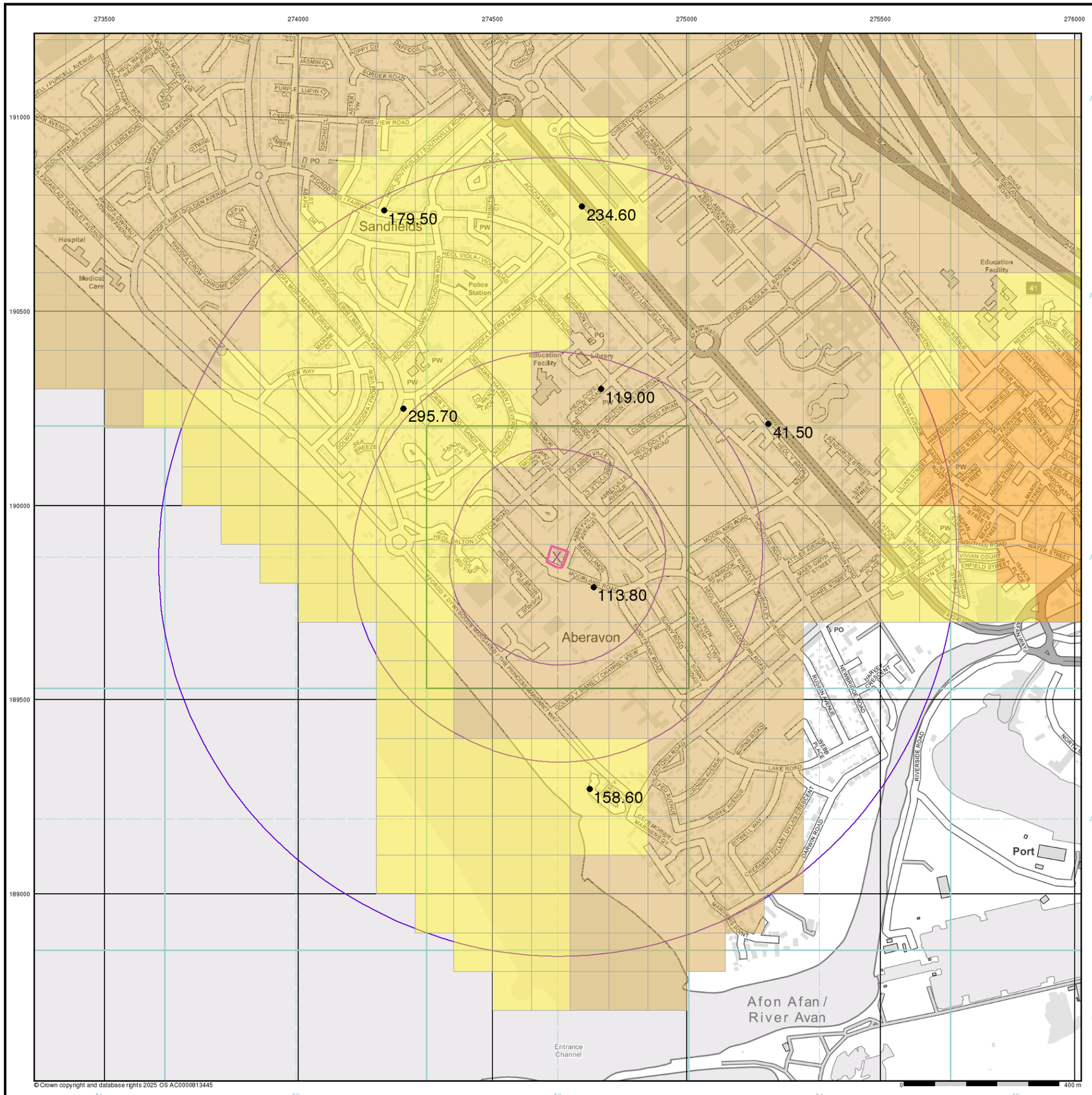
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Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
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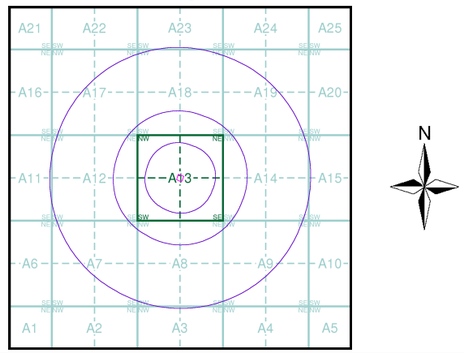
Urban Soil Chemistry Lead

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

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Urban Soil Chemistry Lead - Slice A



Order Details

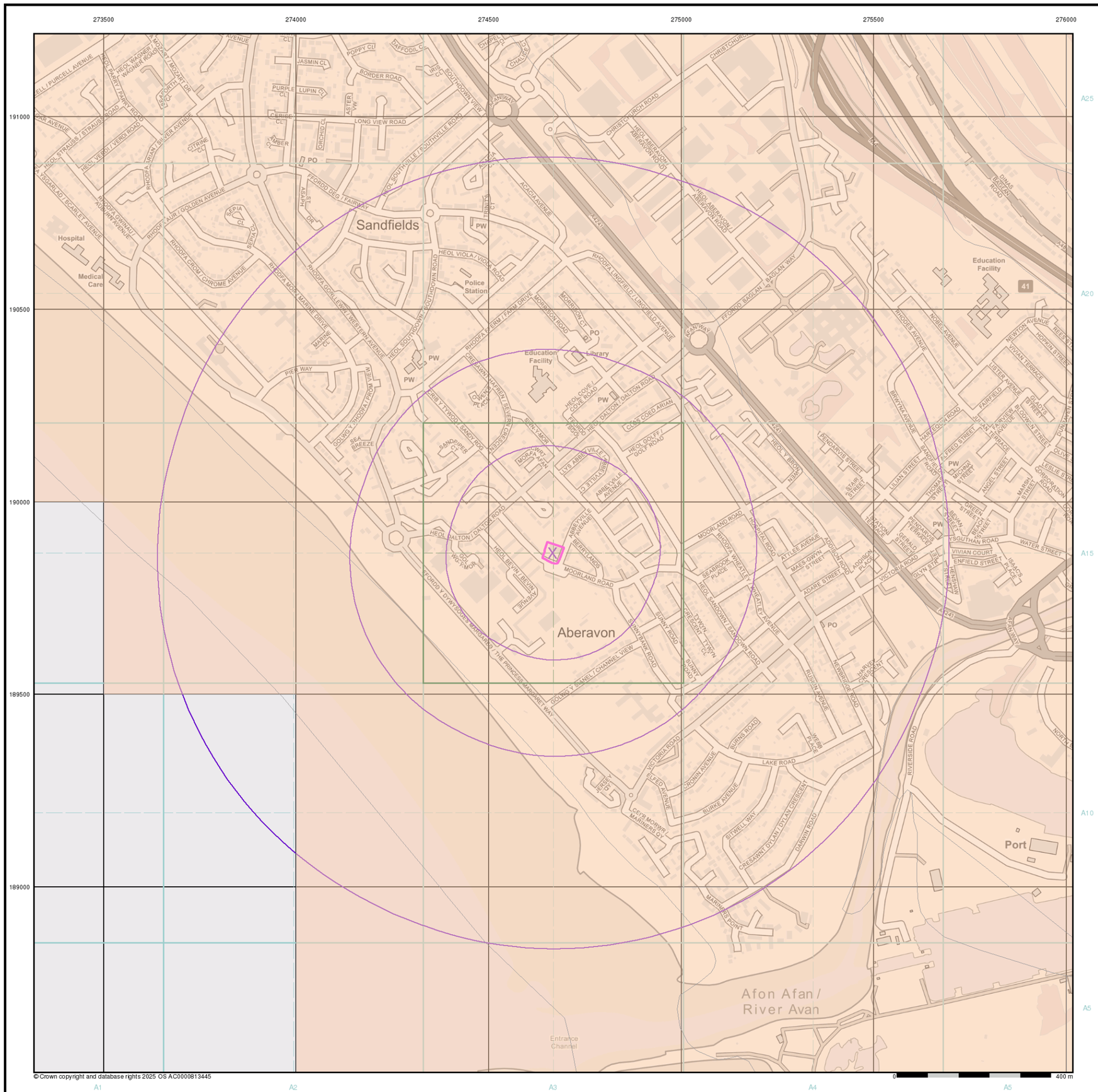
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Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
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Site Area (Ha):	0.21
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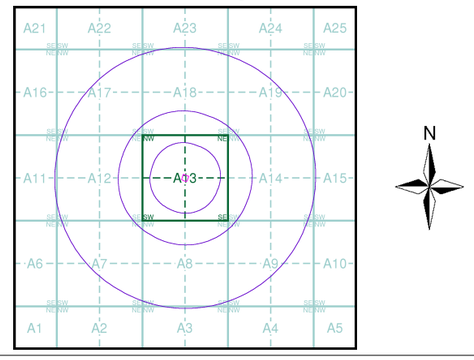
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



Order Details

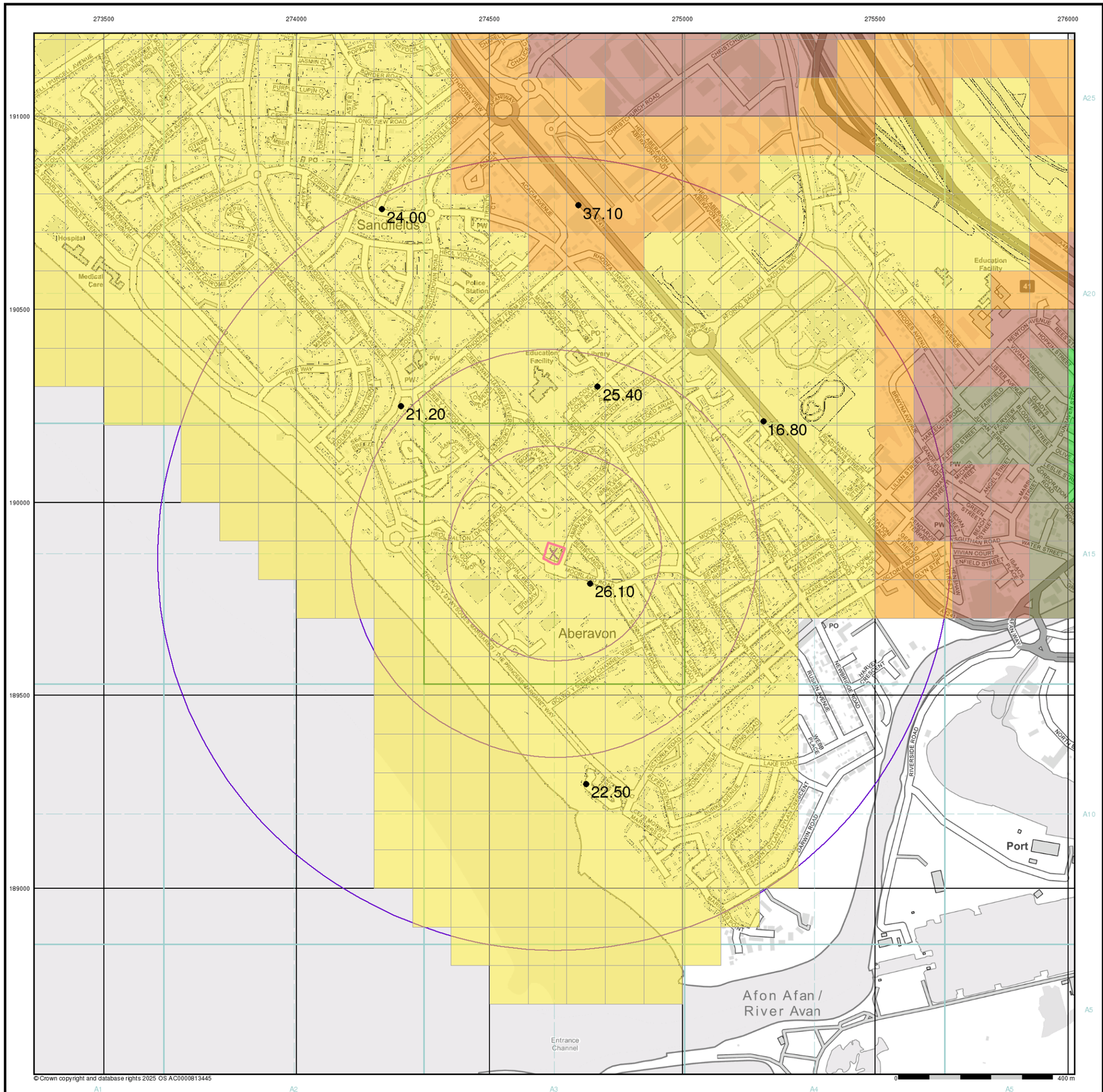
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National Grid Reference:	274670, 189870
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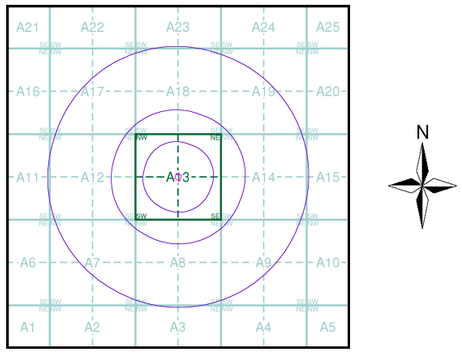
Urban Soil Chemistry Nickel

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

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Urban Soil Chemistry Nickel - Slice A



Order Details

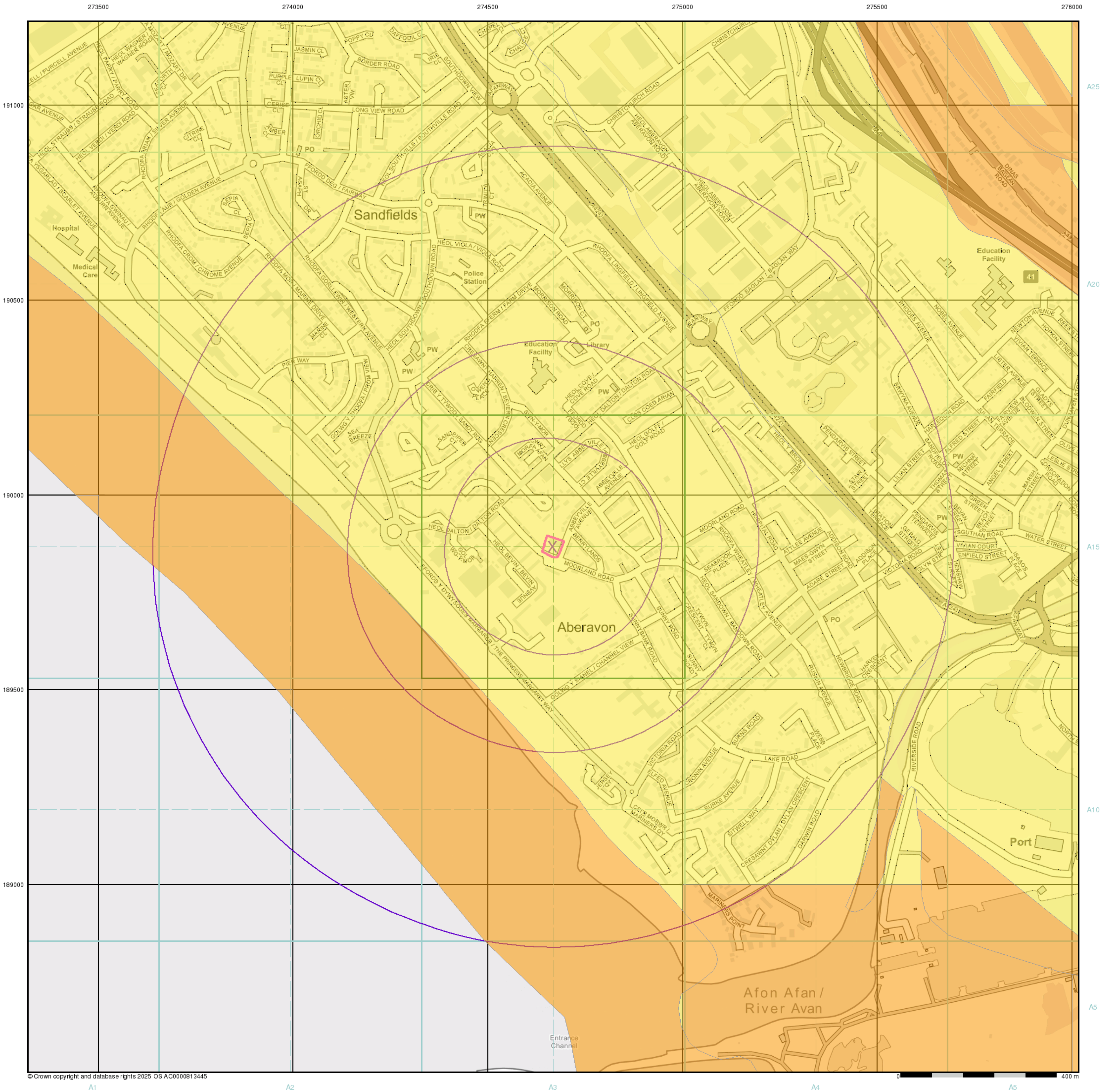
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Customer Ref:	TF-24-275
National Grid Reference:	274670, 189870
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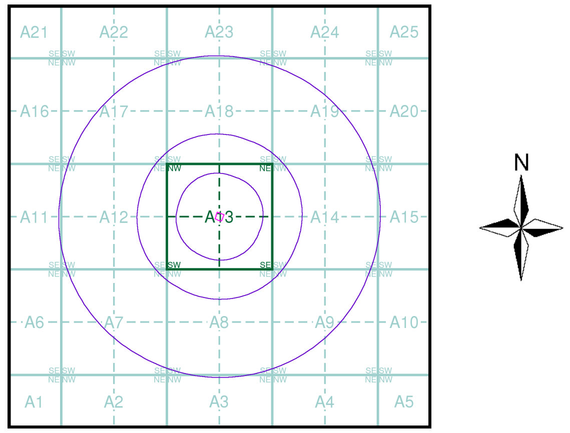
Specified Site
Specified Buffer(s)
X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 373531279_1_1
Customer Ref: TF-24-275
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Slice: A
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ANNEX B
Risk Assessment Definitions

Risk Assessment Definitions

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

Part 2A was introduced to achieve three overreaching objectives:

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

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

> "any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:
>
> (a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
> (b) Pollution of controlled waters is being, or is likely to be, caused."

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

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

Guidance provided by the Environment Agency to aid in managing risks from land contamination (Land Contamination Risk Management - LCRM), defines a 'Hazard' as:

> 'Hazard – *a property or situation that in particular circumstances could lead to harm'*

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is also given in LCRM guidance:

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

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

Classification of Consequence

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

Classification of Probability

Table B Classification of Probability	
Classification	**Definition**
High Likelihood	• There is a complete contaminant linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor.
Likely	• There is a complete contaminant linkage which means that is it probable that an event will occur. • The event is not inevitable but possible in short term and likely in the long term.
Low Likelihood	• There is a complete contaminant linkage and circumstances are possible under which an event could occur. • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term.
Unlikely	• There is a complete contaminant 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 contaminant linkage, the likely risk category can be determined as shown in **Table C** below.

Table C Risk Assessment Matrix

Increasing acceptability →		Consequence			
		Severe	**Medium**	**Mild**	**Negligible**
Probability	**High Likelihood**	High risk	High risk	Medium risk	Low risk
	Likely	High risk	Medium risk	Low risk	Near zero risk
	Low Likelihood	Medium risk	Low risk	Low risk	Near zero risk
	Unlikely	Low risk	Near zero risk	Near zero risk	Near zero risk

Description of Risks and Likely Actions

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

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

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

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

ANNEX C
Borehole Logs

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Borehole Log

Borehole No. **BH01**

Sheet 1 of 3

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:	Hole Type CP
Location:	Red Dragon, Port Talbot		Level:	Scale 1:50
Client:	Castell Construction Limited		Dates: 28/04/2025 - 30/04/2025	Logged By JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.05				MADE GROUND: Black TARMAC.
				0.50				MADE GROUND: Medium dense black sandy GRAVEL with low cobble content. Gravel is angular fine to coarse of slag and clinker. Cobbles are angular of slag and clinker.
								Medium dense yellow fine to medium SAND.
▼	1.20	SPT	N=9 (1,2/2,2,2,3)					
	2.20	SPT	N=12 (1,2/3,3,3,3)					
	3.20	SPT	N=15 (1,4/4,4,4,3)					
	4.20	SPT	N=10 (2,2/2,2,3,3)					
	5.20	SPT	N=15 (2,3/4,3,4,4)					
	8.20	SPT	N=13 (4,2/2,3,4,4)					
	9.00	SPT	N=15 (5,3/3,5,3,4)	9.10				Firm grey silty sandy CLAY.

1 2 3 4 5 6 7 8 9

Chiselling	Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 23.00m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No.
BH01
Sheet 2 of 3

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:	Hole Type CP
Location:	Red Dragon, Port Talbot		Level:	Scale 1:50
Client:	Castell Construction Limited		Dates: 28/04/2025 - 30/04/2025	Logged By JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
								Firm grey silty sandy CLAY.
				10.00				Medium dense grey silty SAND. Sand is fine to medium.
	12.50	SPT	N=20 (3,4/4,4,6,6)	12.50				Medium dense brown fine to medium SAND with occasional shells.
				14.20				Very loose grey clayey silty SAND. Sand is fine to medium.
	14.50	SPT	N=5 (1,0/1,1,1,2)					
	16.10	SPT	N=1 (1,1/1,0,0,0)	16.10				Very soft grey silty CLAY.

10 11 12 13 14 15 16 17 18

Chiselling

Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 23.00m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No. **BH01**
Sheet 3 of 3

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:	Hole Type CP
Location:	Red Dragon, Port Talbot		Level:	Scale 1:50
Client:	Castell Construction Limited		Dates: 28/04/2025 - 30/04/2025	Logged By JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
								Very soft grey silty CLAY.
	21.00	SPT	N=2 (1,0/0,1,0,1)					
	23.10	SPT	N=7 (1,1/1,2,2,2)	23.10				Soft dark grey CLAY with decomposing organic matter.
	23.50	SPT	50 (25 for 100mm/50 for 106mm)	23.50				Very dense grey slightly sandy GRAVEL with low cobble content. Gravel is subangular to rounded fine to coarse of mudstone and sandstone. Cobbles are subrounded of sandstone.
	24.00	SPT	50 (19,6/50 for 105mm)	24.00				End of Borehole at 24.000m

19 20 21 22 23 24 25 26 27

Chiselling

Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 23.00m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No. **BH02**
Sheet 1 of 3

Project Name:	Red Dragon, Port Talbot	Project No:	TF-24-275-CA	Co-ords:	Hole Type CP
Location:	Red Dragon, Port Talbot			Level:	Scale 1:50
Client:	Castell Construction Limited			Dates: 01/05/2025 - 06/05/2014	Logged By JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.06				MADE GROUND: Black TARMAC.
								MADE GROUND: Medium dense black sandy GRAVEL with low cobble content. Gravel is angular fine to coarse of slag and clinker. Cobbles are angular of slag and clinker.
				0.80				Medium dense yellow fine to medium SAND.
	1.20	SPT	N=8 (1,1/1,2,2,3)					
	2.20	SPT	N=8 (2,2/2,2,2,2)					
	3.20	SPT	N=21 (5,3/5,5,5,6)					
	6.20	SPT	N=25 (3,5/6,6,6,7)					
	8.20	SPT	N=5 (3,3/2,1,1,1)	8.20				Loose grey clayey silty SAND. Sand is fine to medium.

1 2 3 4 5 6 7 8 9

Chiseling

Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 22.10m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No.
BH02
Sheet 2 of 3

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:	Hole Type CP
Location:	Red Dragon, Port Talbot		Level:	Scale 1:50
Client:	Castell Construction Limited		Dates: 01/05/2025 - 06/05/2014	Logged By JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
								Loose grey clayey silty SAND. Sand is fine to medium.
	11.00	SPT	N=18 (2,3/3,5,5,5)					
	13.00	SPT	N=8 (1,1/2,2,2,2)					
	16.00	SPT	N=5 (1,1/1,1,1,2)					

10 11 12 13 14 15 16 17 18

Chiseling

Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 22.10m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No. **BH02**
Sheet 3 of 3

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:
Location:	Red Dragon, Port Talbot		Level:
Client:	Castell Construction Limited		Dates: 01/05/2025 - 06/05/2014

Hole Type: CP
Scale: 1:50
Logged By: JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
								Loose grey clayey silty SAND. Sand is fine to medium.
	19.00	SPT	N=8 (1,0/1,2,3,2)					
	22.20	SPT	N=13 (1,2/2,3,4,4)	22.20				Soft dark grey CLAY with decomposing organic matter.
	22.60	SPT	50 (25 for 130mm/50 for 175mm)	22.60				Dense grey slightly sandy GRAVEL with medium cobble content. Gravel is subangular to rounded fine to coarse of mudstone and sandstone. Cobbles are subrounded of sandstone.
				23.60				Possible SANDSTONE bedrock, recovered as angular sandstone boulders.
	24.10	SPT	50 (25 for 75mm/50 for 95mm)	24.10				End of Borehole at 24.100m

19 20 21 22 23 24 25 26 27

Chiselling

Depth Top (m)	Depth Base (m)	Duration (hh:mm)	Remarks

Remarks: 1. Groundwater encountered at 22.10m. 2. Borehole terminated at SPT refusal and minimal progress after 1 hours chiselling. 3. Borehole backfilled with arisings.

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Borehole Log

Borehole No. **WS01**
Sheet 1 of 1

Project Name:	Red Dragon, Port Talbot	Project No:	TF-24-275-CA	Co-ords:	Hole Type: WS
Location:	Red Dragon, Port Talbot			Level:	Scale: 1:50
Client:	Castell Construction Limited			Dates:	25/04/2025 - 25/04/2025
					Logged By: JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.25				MADE GROUND: Grass over brown slightly sandy slightly gravelly CLAY. Gravel is angular fine to coarse including brick and sandstone. Loose becoming medium dense yellow fine to medium SAND.
	1.20	SPT	N=6 (1,2/1,1,2,2)					
	2.00	SPT	N=11 (1,1/2,2,3,4)					
	3.00	SPT	N=10 (2,2/2,2,3,3)					
	4.00	SPT	N=13 (2,3/2,3,4,4)					
	5.00	SPT	N=12 (2,2/3,4,2,3)	5.00				End of Borehole at 5.000m

Remarks: 1. Groundwater encountered at 4.40m. 2. Borehole terminated at full depth. 3. Gas monitoring point installed at location.

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Borehole Log

Borehole No.
WS02
Sheet 1 of 1

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:
Location:	Red Dragon, Port Talbot		Level:
Client:	Castell Construction Limited		Dates: 25/04/2025 - 25/04/2025

Hole Type: WS
Scale: 1:50
Logged By: JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.04				MADE GROUND: Black TARMAC.
				0.10				MADE GROUND: Loose black TARMAC.
				0.30				MADE GROUND: Medium dense black sandy GRAVEL with low cobble content. Gravel is angular fine to coarse of slag and clinker. Cobbles are angular of slag and clinker.
	1.20	SPT	N=5 (1,1/1,1,1,2)					Loose becoming medium dense yellow fine to medium SAND.
	2.00	SPT	N=10 (1,2/2,2,3,3)					
	3.00	SPT	N=11 (2,3/2,3,3,3)					
	4.00	SPT	N=12 (2,2/4,2,3,3)					
	5.00	SPT	N=14 (2,2/3,3,4,4)	5.00				End of Borehole at 5.000m

Remarks: 1. Groundwater encountered at 4.36m. 2. Borehole terminated at full depth. 3. Gas monitoring point installed at location.

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Borehole Log

Borehole No. **WS03**
Sheet 1 of 1

Project Name:	Red Dragon, Port Talbot	Project No:	TF-24-275-CA	Co-ords:	Hole Type: WS
Location:	Red Dragon, Port Talbot			Level:	Scale: 1:50
Client:	Castell Construction Limited			Dates:	25/04/2025 - 25/04/2025
					Logged By: JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.05				MADE GROUND: Black TARMAC.
				0.25				MADE GROUND: Medium dense black sandy GRAVEL with low cobble content. Gravel is angular fine to coarse of slag and clinker. Cobbles are angular of slag and clinker.
								Loose becoming medium dense yellow fine to medium SAND.
	1.20	SPT	N=5 (1,2/1,1,1,2)					
	2.00	SPT	N=11 (2,2/3,2,3,3)					
	3.00	SPT	N=11 (1,2/3,4,2,2)					
	4.00	SPT	N=11 (2,2/2,3,3,3)					
	5.00	SPT	N=12 (2,2/2,3,3,4)	5.00				End of Borehole at 5.000m

1 2 3 4 5 6 7 8 9 10

Remarks: 1. Groundwater encountered at 4.40m. 2. Borehole terminated at full depth. 3. Gas monitoring point installed at location.

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Borehole Log

Borehole No.
WS04
Sheet 1 of 1

Project Name:	Red Dragon, Port Talbot	Project No: TF-24-275-CA	Co-ords:
Location:	Red Dragon, Port Talbot		Level:
Client:	Castell Construction Limited		Dates: 25/04/2025 - 25/04/2025

Hole Type: WS
Scale: 1:50
Logged By: JA

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description
	Depth (m)	Type	Results					
				0.04				MADE GROUND: Grey PAVING SLAB.
				0.14				MADE GROUND: Grey CONCRETE.
				0.48				MADE GROUND: Medium dense black sandy GRAVEL with low cobble content. Gravel is angular fine to coarse of slag and clinker. Cobbles are angular of slag and clinker.
	1.20	SPT	N=7 (1,2/1,2,2,2)					Loose becoming medium dense yellow fine to medium SAND.
	2.00	SPT	N=10 (2,2/2,2,3,3)					
	3.00	SPT	N=15 (2,3/3,4,4,4)					
	4.00	SPT	N=17 (3,4/4,4,4,5)					
	5.00	SPT	N=12 (3,3/3,3,3,3)	5.00				End of Borehole at 5.000m

Remarks: 1. Groundwater encountered at 4.44m. 2. Borehole terminated at full depth. 3. Borehole backfilled with arisings.

ANNEX D
Soakaway Results

SOAKAWAY TEST

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Site Name: Red Dragon, Port Talbot
Project Number: TF-24-275-CA
Date: 25/04/2025
Engineer: Jamie Alderman

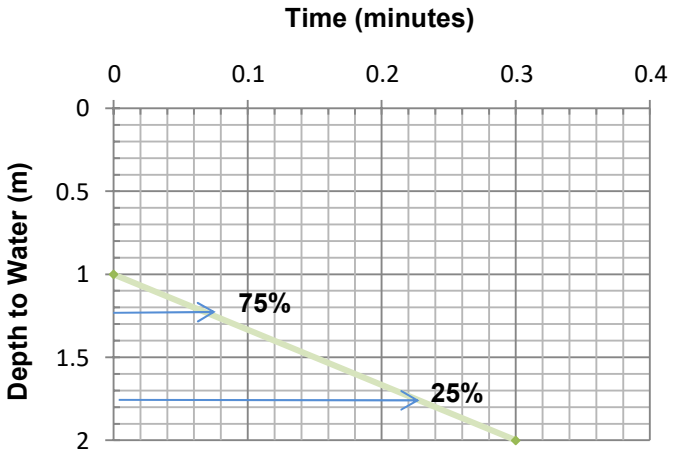
Borehole: **WS01**

TEST 1

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	1.00	m

V_{p75-25}	0.004	m^3
a_{p50}	0.167	m^2
t_{p75-25}	0.15	minutes

Soil Infiltration Rate, f **2.67E-03** **ms^{-1}**
Provisional Only

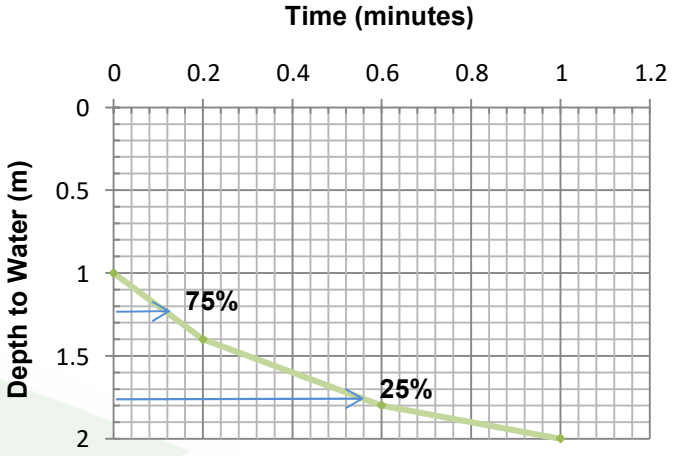


TEST 2

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	0.50	m

V_{p75-25}	0.006	m^3
a_{p50}	0.246	m^2
t_{p75-25}	0.44	minutes

Soil Infiltration Rate, f **9.25E-04** **ms^{-1}**
Provisional Only

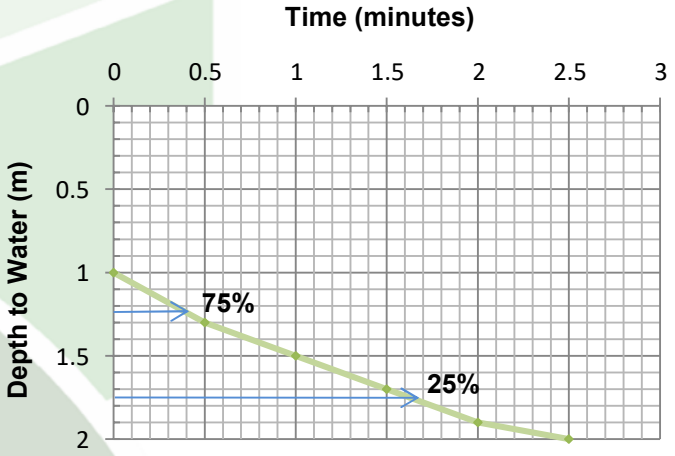


TEST 3

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	0.50	m

V_{p75-25}	0.006	m^3
a_{p50}	0.246	m^2
t_{p75-25}	1.2	minutes

Soil Infiltration Rate, f **3.39E-04** **ms^{-1}**
Provisional Only



REMARKS:
Test carried out in accordance with BRE DIGEST 365 (2016) but on a small scale

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SOAKAWAY TEST

Time (mins)	Depth to Water (m)
0	1
0.3	2

Effective Depth (m)	1.00
Height to 0.75H	1.25
Height to 0.25H	1.75
tp75	0.07
tp25	0.22

Time (mins)	Depth to Water (m)
0	1
0.2	1.4
0.6	1.8
1	2

Effective Depth (m)	1.50
Height to 0.75H	0.875
Height to 0.25H	1.625
tp75	0.1
tp25	0.54

Time (mins)	Depth to Water (m)
0	1
0.5	1.3
1	1.5
1.5	1.7
2	1.9
2.5	2

Effective Depth (m)	1.50
Height to 0.75H	0.875
Height to 0.25H	1.625
tp75	0.4
tp25	1.6

SOAKAWAY TEST

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Geotechnical & Geoenvironmental Specialists

Site Name: Red Dragon, Port Talbot
Project Number: TF-24-275-CA
Date: 25/04/2025
Engineer: Jamie Alderman

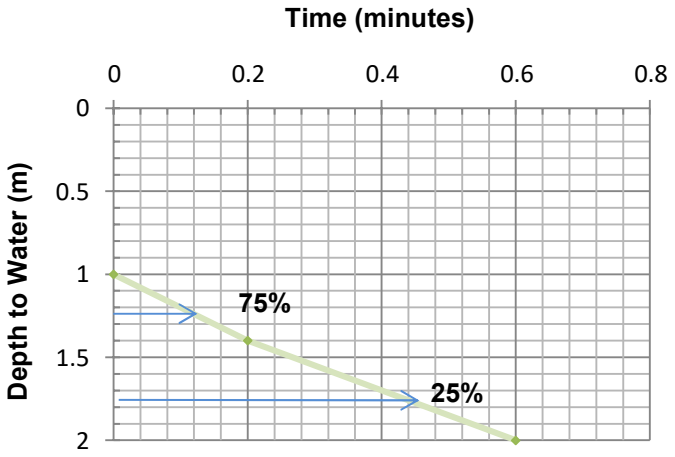
Borehole: **WS03**

TEST 1

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	1.00	m

V_{p75-25}	0.004	m^3
a_{p50}	0.167	m^2
t_{p75-25}	0.32	minutes

Soil Infiltration Rate, f **1.25E-03** **ms^{-1}**
Provisional Only

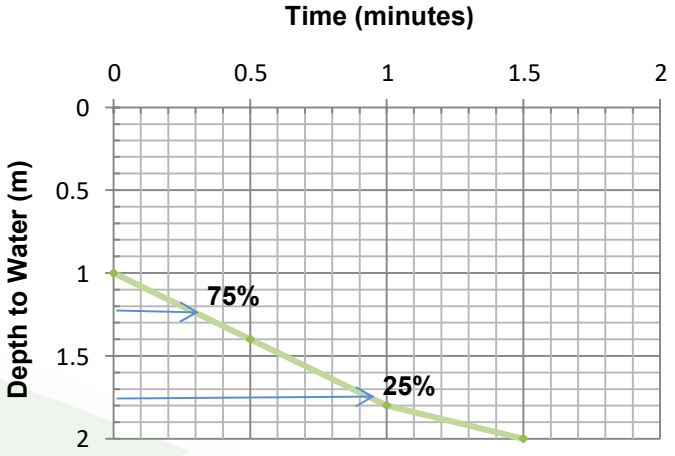


TEST 2

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	0.50	m

V_{p75-25}	0.006	m^3
a_{p50}	0.246	m^2
t_{p75-25}	0.6	minutes

Soil Infiltration Rate, f **6.79E-04** **ms^{-1}**
Provisional Only

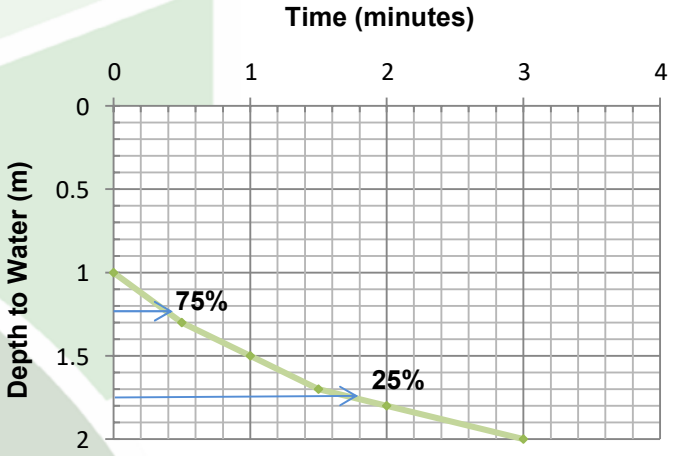


TEST 3

Borehole Diameter	0.10	m
Depth	2.00	m
Fill Level	0.50	m

V_{p75-25}	0.006	m^3
a_{p50}	0.246	m^2
t_{p75-25}	1.3	minutes

Soil Infiltration Rate, f **3.13E-04** **ms^{-1}**
Provisional Only



REMARKS:
Test carried out in accordance with BRE DIGEST 365 (2016) but on a small scale

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SOAKAWAY TEST

Time (mins)	Depth to Water (m)
0	1
0.2	1.4
0.6	2

Effective Depth (m)	1.00
Height to 0.75H	1.25
Height to 0.25H	1.75
tp75	0.12
tp25	0.44

Time (mins)	Depth to Water (m)
0	1
0.5	1.4
1	1.8
1.5	2

Effective Depth (m)	1.50
Height to 0.75H	0.875
Height to 0.25H	1.625
tp75	0.3
tp25	0.9

Time (mins)	Depth to Water (m)
0	1
0.5	1.3
1	1.5
1.5	1.7
2	1.8
3	2

Effective Depth (m)	1.50
Height to 0.75H	0.875
Height to 0.25H	1.625
tp75	0.4
tp25	1.7

ANNEX E
Laboratory Soil Chemical Test Results

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

Amended Report

Report No.:	25-14259-2		
Initial Date of Issue:	06-May-2025	**Date of Re-Issue:**	20-May-2025
Re-Issue Details:	This report has been revised and directly supersedes 25-14259-1 in its entirety		
Client	*Terra Firma*		
Client Address:	*5 Deryn Court* *Wharfedale Road* *Pentwyn* *Cardiff* *CF23 7HA*		
Contact(s):	*Jamie Alderman*		
Project	*TF-24-275-CA Red Dragon*		
Quotation No.:	*Q25-37003*	**Date Received:**	29-Apr-2025
Order No.:		**Date Instructed:**	29-Apr-2025
No. of Samples:	*6*		
Turnaround (Wkdays):	5	**Results Due:**	06-May-2025
Date Approved:	06-May-2025		

Approved By:



Details: David Smith, Technical Director

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

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

Final Report

Report No.: 25-14371-1

Initial Date of Issue: 08-May-2025

Re-Issue Details:

Client *Terra Firma*

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

Contact(s): *Jamie Alderman*

Project *TF-24-275-CA Red Dragon*

Quotation No.: *Q25-37003* **Date Received:** 30-Apr-2025

Order No.: **Date Instructed:** 30-Apr-2025

No. of Samples: *2*

Turnaround (Wkdays): 5 **Results Due:** 07-May-2025

Date Approved: 08-May-2025

Approved By:



Details: David Smith, Technical Director

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

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

Final Report

Report No.: 25-14373-1

Initial Date of Issue: 15-May-2025

Re-Issue Details:

Client *Terra Firma*

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

Contact(s): *Jamie Alderman*

Project *TF-24-275-CA Red Dragon*

Quotation No.: *Q25-37003* **Date Received:** 30-Apr-2025

Order No.: **Date Instructed:** 30-Apr-2025

No. of Samples: *1*

Turnaround (Wkdays): 7 **Results Due:** 09-May-2025

Date Approved: 15-May-2025

Approved By:



Details: David Smith, Technical Director

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

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

Interim Report

Report No.: 25-15766-0

Initial Date of Issue:

Re-Issue Details:

Client *Terra Firma*

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

Contact(s): *Jamie Alderman*

Project *TF-24-275-CA Red Dragon*

Quotation No.: *Q25-37003* **Date Received:** 13-May-2025

Order No.: **Date Instructed:** 13-May-2025

No. of Samples: *3*

Turnaround (Wkdays): 5 **Results Due:** 19-May-2025

Date Approved:

Approved By:

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

Please note that the interim data available has passed our Quality Control Criteria but has not been verified by an approved signatory and may be subject to amendment on approval. Chemtest cannot therefore be held responsible for decisions made on interim data sets but only for the data submitted on a final report containing an approval date and signature.

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

Interim Report

Report No.: 25-15768-0

Initial Date of Issue:

Re-Issue Details:

Client *Terra Firma*

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

Contact(s): *Jamie Alderman*

Project *TF-24-275-CA Red Dragon*

Quotation No.: *Q25-37003* **Date Received:** 13-May-2025

Order No.: **Date Instructed:** 13-May-2025

No. of Samples: *1*

Turnaround (Wkdays): 7 **Results Due:** 21-May-2025

Date Approved:

Approved By:

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

Please note that the interim data available has passed our Quality Control Criteria but has not been verified by an approved signatory and may be subject to amendment on approval. Chemtest cannot therefore be held responsible for decisions made on interim data sets but only for the data submitted on a final report containing an approval date and signature.

Results - Soil

Project: TF-24-275-CA Red Dragon

Client: Terra Firma				**Chemtest Job No.:**		25-14259	25-14259	25-14259	25-14259	25-14259	25-14259	25-14371
Quotation No.: Q25-37003				**Chemtest Sample ID.:**		1966775	1966776	1966777	1966778	1966779	1966780	1967111
				Client Reference:		*WS01*	*WS01*	*WS02*	*WS02*	*WS03*	*WS04*	*WS04*
				Sample Type:		*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
				Top Depth (m):		*0.20*	*1.20*	*0.30*	*0.90*	*1.40*	*1.10*	*0.50*
				Date Sampled:		*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*28-Apr-2025*
				Asbestos Lab:		DURHAM		DURHAM				NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		N	2192		N/A	-		-				-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected				No Asbestos Detected
Moisture		N	2030	%	0.020	11	3.7	3.8	3.7	6.4	4.9	4.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	None	Stones	None	None	None	None
Soil Texture		N	2040		N/A	Loam	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.2		8.7				8.9
pH (2.5:1) at 20C		N	2010		4.0		8.7		8.9	9.1	9.2	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.76		< 0.40				< 0.40
Magnesium (Water Soluble)		M	2120	mg/kg	20		< 20		< 20	< 20	< 20	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		< 0.010		< 0.010	< 0.010	< 0.010	
Total Sulphur		U	2175	%	0.010		0.01		0.01	0.02	0.01	
Chloride (Water Soluble)		M	2220	g/l	0.010		< 0.010		< 0.010	< 0.010	< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010		< 0.010	< 0.010	< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50		< 0.50				< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50		< 0.50				< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50		< 0.50				< 0.50
Ammonium (Extractable)		M	2425	mg/kg	0.50		1.5		1.6	0.76	1.1	
Sulphate (Total)		U	2430	%	0.010		0.037		0.066	0.19	0.025	
Sulphate (Acid Soluble)		U	2430	%	0.010	0.055	0.02	0.13	0.023	0.02	0.023	0.024
Arsenic		M	2455	mg/kg	0.5	10		54				13
Beryllium		U	2455	mg/kg	0.5	< 0.5		< 0.5				< 0.5
Cadmium		M	2455	mg/kg	0.10	0.72		0.85				< 0.10
Chromium		M	2455	mg/kg	0.5	14		390				6.5
Mercury Low Level		N	2450	mg/kg	0.05	0.06		0.17				< 0.05
Manganese		M	2455	mg/kg	1.0	480		6400				210
Molybdenum		M	2455	mg/kg	0.5	0.5		6.5				< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0		6				< 2.0
Copper		M	2455	mg/kg	0.50	14		1100				2.9
Nickel		M	2455	mg/kg	0.50	12		52				5.8
Lead		M	2455	mg/kg	0.50	64		180				4.8
Selenium		M	2455	mg/kg	0.25	0.39		< 0.25				< 0.25
Zinc		M	2455	mg/kg	0.50	100		490				21
Chromium (Trivalent)		N	2490	mg/kg	1.0	14		390				6.5
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50				< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10		< 0.10				< 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05

Results - Soil

Project: TF-24-275-CA Red Dragon

Client: Terra Firma				**Chemtest Job No.:**		25-14259	25-14259	25-14259	25-14259	25-14259	25-14259	25-14371
Quotation No.: Q25-37003				**Chemtest Sample ID.:**		1966775	1966776	1966777	1966778	1966779	1966780	1967111
				Client Reference:		*WS01*	*WS01*	*WS02*	*WS02*	*WS03*	*WS04*	*WS04*
				Sample Type:		*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
				Top Depth (m):		*0.20*	*1.20*	*0.30*	*0.90*	*1.40*	*1.10*	*0.50*
				Date Sampled:		*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*25-Apr-2025*	*28-Apr-2025*
				Asbestos Lab:		DURHAM		DURHAM				NEW-ASB
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25		< 0.25				< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		< 2.0				< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0		< 1.0				< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		< 2.0				< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	3.2		< 3.0				< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10		< 10				< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0		< 5.0				< 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10		< 10				< 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05				< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25		< 0.25				< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0				< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0				< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5		2.9				3.8
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14		17				< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0		91				< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	19		20				< 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	19		110				< 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50		< 0.50				< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	23		23				< 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	23		110				< 10
Naphthalene		M	2800	mg/kg	0.10	0.27		0.21				< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10				< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.23		< 0.10				< 0.10
Fluorene		M	2800	mg/kg	0.10	0.18		< 0.10				< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.68		< 0.10				< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10				< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.1		< 0.10				< 0.10
Pyrene		M	2800	mg/kg	0.10	0.73		< 0.10				< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.61		< 0.10				< 0.10
Chrysene		M	2800	mg/kg	0.10	0.71		< 0.10				< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1		< 0.10				< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.25		< 0.10				< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.47		< 0.10				< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.44		< 0.10				< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10				< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.52		< 0.10				< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.3		< 2.0				< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10				< 0.10
Organic Matter BS1377		N	2930	%	0.10	2.6		5.2				0.7

Results - Soil

Project: TF-24-275-CA Red Dragon

Client: Terra Firma				**Chemtest Job No.:**		25-14371	25-14373	25-15766	25-15766	25-15766	25-15768
Quotation No.: Q25-37003				**Chemtest Sample ID.:**		1967112	1967114	1971876	1971877	1971878	1971886
				Client Reference:		*BH01*	*BH01*	*BH02*	*BH02*	*BH02*	*BH02*
				Sample Type:		*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
				Top Depth (m):		*0.30*	*0.30*	*0.10*	*0.60*	*1.00*	*0.60*
				Date Sampled:		*28-Apr-2025*	*28-Apr-2025*	*07-May-2025*	*07-May-2025*	*07-May-2025*	*07-May-2025*
				Asbestos Lab:		NEW-ASB		DURHAM	DURHAM		
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**						
ACM Type		N	2192		N/A	-		-	-		
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		
Moisture		N	2030	%	0.020	6.5	7.1	1.0	0.94	1.2	1.1
Soil Colour		N	2040		N/A	Black		Black	Black	Brown	
Other Material		N	2040		N/A	Stones		Stones and tarmac	Stones and tarmac	Stones	
Soil Texture		N	2040		N/A	Sand		Sand	Sand	Sand	
pH at 20C		M	2010		4.0	8.8		9.6	8.9		
pH (2.5:1) at 20C		N	2010		4.0					9.2	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.41		< 0.40	0.59		
Magnesium (Water Soluble)		M	2120	mg/kg	20					< 20	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010					< 0.010	
Total Sulphur		U	2175	%	0.010					0.010	
Chloride (Water Soluble)		M	2220	g/l	0.010					< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010					< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50		< 0.50	< 0.50		
Cyanide (Free)		M	2300	mg/kg	0.50	< 0.50		< 0.50	< 0.50		
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50		< 0.50	< 0.50		
Ammonium (Extractable)		M	2425	mg/kg	0.50					0.67	
Sulphate (Total)		U	2430	%	0.010					0.036	
Sulphate (Acid Soluble)		U	2430	%	0.010	0.36		0.047	0.11	0.027	
Arsenic		M	2455	mg/kg	0.5	110		12	9.1		
Beryllium		U	2455	mg/kg	0.5	0.7		< 0.5	< 0.5		
Cadmium		M	2455	mg/kg	0.10	0.87		0.78	0.52		
Chromium		M	2455	mg/kg	0.5	280		13	8.9		
Mercury Low Level		N	2450	mg/kg	0.05	0.11		< 0.05	< 0.05		
Manganese		M	2455	mg/kg	1.0	5700		240	290		
Molybdenum		M	2455	mg/kg	0.5	6.2		5.2	1.6		
Antimony		N	2455	mg/kg	2.0	10		3.1	< 2.0		
Copper		M	2455	mg/kg	0.50	960		610	660		
Nickel		M	2455	mg/kg	0.50	65		38	22		
Lead		M	2455	mg/kg	0.50	130		43	61		
Selenium		M	2455	mg/kg	0.25	< 0.25		0.33	0.34		
Zinc		M	2455	mg/kg	0.50	240		300	200		
Chromium (Trivalent)		N	2490	mg/kg	1.0	280		13	8.9		
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50		
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	< 0.10		< 0.10	< 0.10		
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		

Results - Soil

Project: TF-24-275-CA Red Dragon

Client: Terra Firma				**Chemtest Job No.:**		25-14371	25-14373	25-15766	25-15766	25-15766	25-15768
Quotation No.: Q25-37003				**Chemtest Sample ID.:**		1967112	1967114	1971876	1971877	1971878	1971886
				Client Reference:		*BH01*	*BH01*	*BH02*	*BH02*	*BH02*	*BH02*
				Sample Type:		*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
				Top Depth (m):		*0.30*	*0.30*	*0.10*	*0.60*	*1.00*	*0.60*
				Date Sampled:		*28-Apr-2025*	*28-Apr-2025*	*07-May-2025*	*07-May-2025*	*07-May-2025*	*07-May-2025*
				Asbestos Lab:		NEW-ASB		DURHAM	DURHAM		
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**						
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25		< 0.25	< 0.25		
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		< 2.0	< 2.0		
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0		1.0	< 1.0		
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.3		5.1	< 2.0		
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0		< 3.0	< 3.0		
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10		< 10	< 10		
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0		8.3	< 5.0		
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10		< 10	< 10		
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05	< 0.05		
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25		< 0.25	< 0.25		
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0	< 1.0		
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0	< 1.0		
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	17		15	3.9		
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	35		28	20		
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	210		250	210		
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	52		44	24		
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	260		300	230		
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50		< 0.50	< 0.50		
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	55		52	25		
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	260		310	230		
Naphthalene		M	2800	mg/kg	0.10	0.29		To Follow	To Follow		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Fluorene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Phenanthrene		M	2800	mg/kg	0.10	0.14		To Follow	To Follow		
Anthracene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Fluoranthene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Pyrene		M	2800	mg/kg	0.10	0.14		To Follow	To Follow		
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Chrysene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		To Follow	To Follow		
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0		To Follow	To Follow		
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10	< 0.10		
Organic Matter BS1377		N	2930	%	0.10	4.1		4.5	5.3		

Results - 2 Stage WAC

Project: TF-24-275-CA Red Dragon

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	25-14373						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Chemtest Sample ID:	1967114								
Sample Ref:									
Sample ID:									
Client Reference:	*BH01*								
Top Depth(m):	*0.30*								
Bottom Depth(m):									
Sampling Date:	*28-Apr-2025*								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			20	3	5	6
Loss On Ignition	2610	M	%			14	--	--	10
Total BTEX	2760	M	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.05	1	--	--
TPH Total WAC	2670	M	mg/kg			22	500	--	--
Total (Of 17) PAH's	2800	N	mg/kg			< 2.0	100	--	--
pH at 20C	2010	M				8.5	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.021	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.031	0.032	0.062	0.32	0.5	2	25
Barium	1455	U	0.11	0.067	0.22	0.74	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.031	0.028	0.062	0.053	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.038	0.029	0.076	0.30	0.5	10	30
Nickel	1455	U	0.0057	0.0013	0.011	0.021	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.059	0.20	0.12	1.8	0.06	0.7	5
Selenium	1455	U	0.0018	0.0006	0.0036	0.0077	0.1	0.5	7
Zinc	1455	U	0.009	0.006	0.019	0.062	4	50	200
Chloride	1220	U	6.7	1.6	13	25	800	15000	25000
Fluoride	1220	U	0.42	0.76	< 1.0	7.0	10	150	500
Sulphate	1220	U	78	31	160	390	1000	20000	50000
Total Dissolved Solids	1020	N	170	99	350	1100	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	< 2.5	< 2.5	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.9
WAC Sample Weight	[E] 1427

Leachate Test Information	
Leachant volume 1st extract/l	0.333
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.299

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: TF-24-275-CA Red Dragon

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	25-15768								
Chemtest Sample ID:	1971886								
Sample Ref:									
Sample ID:									
Client Reference:	*BH02*								
Top Depth(m):	*0.60*								
Bottom Depth(m):									
Sampling Date:	*07-May-2025*								
Determinand	**SOP**	**Accred.**	**Units**				**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625	M	%			7.6	3	5	6
Loss On Ignition	2610	M	%			3.2	--	--	10
Total BTEX	2760	M	mg/kg			To Follow	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			To Follow	1	--	--
TPH Total WAC	2670	M	mg/kg			To Follow	500	--	--
Total (Of 17) PAH's	2800	N	mg/kg			To Follow	100	--	--
pH at 20C	2010	M				9.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.0030	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0061	0.0032	0.012	0.037	0.5	2	25
Barium	1455	U	0.038	0.012	0.076	0.17	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	0.0008	0.0006	0.0016	0.0065	0.5	10	70
Copper	1455	U	0.0081	0.0047	0.016	0.014	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0090	0.0017	0.018	0.029	0.5	10	30
Nickel	1455	U	0.0041	0.0048	0.0081	0.047	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.072	0.027	0.14	0.34	0.06	0.7	5
Selenium	1455	U	0.0006	< 0.0005	0.0012	0.0010	0.1	0.5	7
Zinc	1455	U	0.023	0.008	0.046	0.11	4	50	200
Chloride	1220	U	3.3	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.19	0.13	< 1.0	1.4	10	150	500
Sulphate	1220	U	19	5.3	38	76	1000	20000	50000
Total Dissolved Solids	1020	N	75	33	150	400	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	4.6	2.9	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	9.3
WAC Sample Weight	786.0

Leachate Test Information	
Leachant volume 1st extract/l	0.332
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.295

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	*Clients Sample Ref:*	*Clients Sample ID:*	*Clients Reference:*	*Sampled Date:*	Deviation Code(s):	Containers Received:
1967114			*BH01*	*28-Apr-2025*	E	Amber Glass 250ml
1967114			*BH01*	*28-Apr-2025*	E	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE LE SW GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurememrt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2425	Extractable Ammonium in soils	Ammonium	Extraction with potassium chloride solution / analysis by 'Aquakem 600' Discrete Analyser using sodium salicylate and sodium dichloroisocyanurate.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
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	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection
Text example	All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

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

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

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

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

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 - The required amount of sample for analysis was not received
H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.

Report Information

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

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

HWOL Acronym System

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

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

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

ANNEX F
Ground Gas Monitoring Results

In-Situ Gas Monitoring Results

Job Number TF-24-275-CA
Job Name Red Dragon, Port Talbot

Round 1

Date: 05.06.2025
Barometric Pressure: 1017mb
Weather: Overcast

Gas Monitoring Well Number	Methane (CH_4)	Oxygen (O_2)	Carbon Dioxide (CO_2)	Flow	Water Level
	(%)	(%)	(%)	(l/hr)	(m)
WS01	0.0	20.5	0.4	0.4	Dry
WS02	0.0	20.7	0.2	0.2	Dry
WS03	0.0	20.2	0.4	0.4	Dry

Round 2

Date:
Barometric Pressure:
Weather:

Gas Monitoring Well Number	Methane (CH_4)	Oxygen (O_2)	Carbon Dioxide (CO_2)	Flow	Water Level
	(%)	(%)	(%)	(l/hr)	(m)

Round 3

Date:
Barometric Pressure:
Weather:

Gas Monitoring Well Number	Methane (CH_4)	Oxygen (O_2)	Carbon Dioxide (CO_2)	Flow	Water Level
	(%)	(%)	(%)	(l/hr)	(m)

Notes:

Gas Measuring Instrument
GA 2000

N/D - Not Detected

DRAWINGS

Site Name: Red Dragon, Port Talbot
Project Number: TF-24-275-CA
Drawing Title: Borehole Layout
Drawing Number: 01
Scale: Not to scale

KEY

Cable Percussion Locations

Window Sample Locations



terra firma

Geotechnical & Geoenvironmental Specialists

TFW Group Ltd, 5 Deryn Court, Wharfedale Road, Pentwyn, Cardiff. CF23 7HA

Tel: 033 022 36380 **Email**: hello@tfwgroup.co.uk **www.tfwgroup.co.uk**