PHASE I PRELIMINARY RISK ASSESSMENT OF LAND AT SOLAR FARM, WREXHAM

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Table of Contents

1.0 INTRODUCTION 1

1.1 Instruction 1
1.2 Scope of Works 1
1.3 Previous Investigations 1
1.4 Reliance and Limitations 1

2.0 SITE LOCATION AND DESCRIPTION 3

2.1 Site Location 3
2.2 Site Reconnaissance 3
2.3 Site Description 3
2.4 Surrounding Area 3
2.5 Future Site Usage 4

3.0 SITE HISTORY 5

3.1 General 5
3.2 Aerial Photography 5

4.0 ENVIRONMENTAL SETTING 8

4.1 General 8
4.2 Published Geology 8
4.3 Potential Contamination Sources 8
4.4 Radon 9
4.5 Hydrogeology 9
4.6 Hydrology 10
4.7 Mining, Subsidence and Foundations 10
4.8 Environmentally Sensitive Sites 11

5.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT 12

5.1 Introduction 12
5.2 Risk Assessment Methodology 12
5.3 Outline Conceptual Site Model 12
5.4 Preliminary Risk Assessment 14

6.0 PRELIMINARY GEOTECHNICAL ASSESSMENT 20

6.1 General 20

7.0 CONCLUSIONS AND RECOMMENDATIONS 21

7.1 Conclusions 21
7.2 Recommendations 21
7.3 Other Considerations 21

8.0 REFERENCES 23

List of Tables

Table 2.1: Site Surface Covering....3
Table 3.1: Site History....6
Table 4.1: Sources of Information....8
Table 4.2: Published Geology....8
Table 4.3: Potential Geological Hazards....11
Table 5.1: Preliminary Conceptual Site Model and Potential Pollutant Linkages....17
Table 6.1: Potential Geotechnical Risks....20

APPENDICES

Appendix	Information
A	Drawings
B	Envirocheck Report
C	Risk Assessment Matrix
D	Coal Authority Mining Report

1.0 INTRODUCTION

1.1 Instruction

1.1.1 GeoCon Site Investigations Ltd (GeoCon) have been commissioned by Innova Renewables Developments Limited to undertake a Phase I Preliminary Risk Assessment (PRA) on land at Solar Farm, Wrexham.

1.1.2 It is understood that a PRA is required to assist with a planning application for a proposed industrial development at the site.

1.1.3 This report is therefore provided to establish the potential for contamination at the site as a result of current and historic land uses both on site and within influencing distance of the site, to understand the potential type of contamination that may be present; and, to establish the potential risks from shallow coal mining.

1.1.4 This report is written in accordance with the guidance set out in Land Contamination Risk Management (LCRM), Guiding Principles for Land Contamination (GPLC) 1 – 3, and the National Planning Policy Framework (NPPF).

1.2 Scope of Works

1.2.1 Prior to commencing the site works the proposed scope of investigation was as follows, however the proposed scope will be subject to change dependent upon site conditions, access, restrictions and obstructions.

- To undertake a site walkover and reconnaissance.
- To appraise the land use history of the site by the examination of available historical plans.
- To assess the environmental setting of the site with specific reference to geology, mining & quarrying, hydrogeology and hydrology.
- To gain an understanding of any concerns of the regulatory authorities (Local Authority Planning, Building Control and Environmental Health departments and the Environment Agency) regarding local land filling, flooding, mining, quarrying and other concerns.
- To produce a Preliminary Conceptual Site Model (CSM).

1.3 Previous Investigations

1.3.1 GeoCon have not been provided with any previous investigation reports and are unaware that any have been carried out to date.

1.4 Reliance and Limitations

1.4.1 This report has been prepared using published information and information provided by the Client and their professional advisers which has been made available to GeoCon at the time of writing only. GeoCon accepts no liability for any changes resulting from new information which has become available since this time.

1.4.2 This report is provided for the sole use of the client and their professional advisors and is confidential to them unless agreed otherwise in writing. This report may only be used and relied on once the work has been paid for in full. GeoCon owes no duty of care and has no liability to any third party who is not authorised by GeoCon to use this report. Any unauthorised third parties using information contained in this report do so at their own risk.

1.4.3 This assessment has been carried out to determine the potential risks posed to future end users, along with other key receptors, resulting from potential contamination at the site, based on the proposed

development. Should any revisions in the development proposals result in a change in any assessment parameters detailed in this report, a re-assessment of the risk should be carried out.

1.4.4 Whilst this report may reference observations made regarding the presence of features/ issues such as invasive species, Asbestos Containing Materials (ACM), site drainage and evidence of structural abnormalities, this report does not constitute specialist surveys on these matters. Should further specialist surveys be carried out in this regard, the findings of these should be reported to GeoCon so that we may determine if this has any impact on the findings of this report.

1.4.5 The assessment and interpretation of the factual data obtained as part of this Phase I Preliminary Risk Assessment has been undertaken in accordance with standard consulting practise and with current national and international guidance.

1.4.6 This report presents the observations made during the Phase I Preliminary Risk Assessment and the factual data obtained. The conclusions and recommendations in this report are limited to those which can be made based on the findings of the survey and information provided by third parties. GeoCon assumes all third-party data to be true and correct. No responsibility can be accepted by GeoCon for inaccuracies in the information provided by any other party.

1.4.7 This report is written in the context of an agreed scope of works and should not be used in a different context. Furthermore, new information, improved practises, and changes in legislation may require the reinterpretation of the report in whole or in part after its original issue. GeoCon reserve the right to alter their conclusions and recommendations in the light of further information that may become available.

1.4.8 It should be noted that ground conditions including contaminant concentrations and groundwater levels may vary spatially with time. This factor should be given due consideration in the event that the information contained within this report is used after any significant period of time has elapsed.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Site Location

2.1.1 The site is located at land adjacent to Williams Farm Solar, Wrexham, at approximate National Grid Reference NGR: 337930:348420 (centre of the site).

2.1.2 A site location plan is presented as Drawing No. GSI 2006/01 in Appendix A.

2.2 Site Reconnaissance

2.2.1 A site reconnaissance was carried out on the 21st November 2023. Details from the site walkover are included in the site description below.

2.3 Site Description

2.3.1 The site is an irregular shaped piece of land with an approximate area of 9.63Ha. The site is characterised as a thin corridor running to the east from the site entrance, becoming wider to the east and opening up to the north and south after the extents of the existing Solar Farm.

2.3.2 The topography of the site generally slopes down towards the north and river channel with localised undulations present.

2.3.3 The site is predominantly undeveloped agricultural grazing land, with small derelict bricked buildings located in the eastern portion of the site which have become overgrown with vegetation and rubble. Small amounts of fly tipping is present in small localised areas on the site including timber, plastics and car tyres. The structures on site show evidence of connected electric and power, and manhole covers along the connecting perimeter of site. An electric substation is present on the site boundary to the adjacent Solar Farm. Overhead power lines are in the west of site. The access track in the east of site is of poor condition. Ground conditions during the site walkover indicated soft and boggy ground with the most impacted area identified in the north of site located closer to the River Clywedog. The river at the northern extents has mature trees present along the low banks of the river channel. Standing surface water was also present towards this area.

2.3.4 An approximate distribution of the surface covering is given below in Table 2.1: Site Surface Covering.

Table 2.1: Site Surface Covering

Type of Surface Cover	Distribution (%)
Soft Ground (grassed and landscaped areas)	85
Hardstanding	0
Roadways	5
Buildings	10
Water (ponds, streams)	0

2.3.5 The site is bound by the River Clywedog northwest, fence line, hedges and established trees to the east. The south and west of site is bound by the adjacent fence line of Williams Solar Farm.

2.3.6 Access to the site is via unnamed road off the east of Bedwell Road.

2.3.7 A selection of photographs from the site walkover are presented as GSI 2006/02 in Appendix A.

2.4 Surrounding Area

2.4.1 The current surrounding land use to the site is generally grassland and agricultural properties in all directions, with the solar farm present adjacent to the site to the immediate south, and the meandering River channel to the north.

2.4.2 The topography of the surrounding area is sloping down towards the north; contour maps show a slight decline in elevation to the west.

2.5 Future Site Usage

2.5.1 It is currently proposed to construct additional extension to the preexisting solar farm development adjacent to the site, referenced WR-EX-258-06-01 and contained with Appendix A.

2.5.2 This assessment has been carried out with reference to this proposed development plan as provided by the client, any changes to the proposed development may result in this assessment requirement updating.

3.0 SITE HISTORY

3.1 General

3.1.1 The history of the site has been determined from available historical maps obtained as part of the Envirocheck Report and via the Envirocheck Analysis online historical mapping tool. The history of the site and of the surrounding area is summarised overleaf in Table 3.1: Site History. It should be noted that some of the maps come with little to no coverage.

3.1.2 The information presented overleaf in Table 3.1: Site History, is given based on the distance and direction from the closest point of each feature to the site. The table presents the data broken down into the following categories: - feature; the potential use of each feature where applicable; the date each particular feature is first observed; the direction of each feature from the site; the approximate distance of each feature from the site; the approximate area of each feature; and any other relevant information regarding the site and surrounding area in general.

3.2 Aerial Photography

1945 Aerial Photograph:

3.2.1 The 1945 aerial photograph, obtained from review of freely available online information, show the site in the southeastern extents of the image (GSI2006-03, Appendix A), with a Royal Ordnance Factory present across the site and wider surrounding area to the north. Unknown uniformed buildings are present and spaced at distant, regular intervals. Railway infrastructure is present, with a single track connecting all the identified buildings on site. Ponds are present on the site and wider area.

2003 Aerial Photograph:

3.2.2 The 2003 aerial photograph show the site relatively undeveloped with agricultural fields and associated barns and farm works. The surrounding area is comprising majority fields and farm buildings with commercial and industrial south, east and north of site.

Table 3.1: Site History

Feature	Date first observed	Date no longer shown	Direction (from site)	Distance (from site)	Area (m^2)	General notes
Royal Ordnance Factory	1954	1961	SE	On site	118	Appearing post WW2, relates to ROF production of explosive propellant, identical building units connected by railway across western site area. Further infrastructure 100m north of site beyond the river. Potential for burn pits, disposal sites, laboratories, smelting and chemical plants. Some structures remain in present day.
Pond	1879	1961	S	On site	706	No longer present from 1961 mapping, potentially infilled feature.
Electrical Powerline	1961	Present	W	On site	0	N/A
River Clywedog	1873	Present	W	On site	0	River Clywedog has changed course from 1873 to present, cutting across the majority of site during 1873 and moving further north overtime, flows west to east
Pond	1873	1899	NE	On site	111	No longer present from 1899 mapping, potentially infilled feature.
Pond	1873	1961	E	29	66	No longer present from 1961 mapping, potentially infilled feature.
Pond	1899	1961	SW	36	33	No longer present from 1961 mapping, potentially infilled feature.
Pond	1961	Present	N	46	864	N/A
Pond	1873	1961	S	64	193	No longer present from 1961 mapping, potentially infilled feature.
Wales Gas Board	1961	Present	SW	69	64451	From 1992 site is renamed on mapping as offices. Building are still present in 2023.
Pond	1873	1961	NE	70	479	No longer present from 1961 mapping, potentially infilled feature.
Pond	1961	1964	SW	75	72	No longer present from 1964 mapping, potentially infilled feature.
Pond	1873	1992	SE	79	113	No longer present from 1992 mapping, potentially infilled feature.
Pond	1873	2000	E	85	383	No longer present from 2000 mapping, potentially infilled feature.
Pond	1961	2000	N	89	2760	No longer present from 2000 mapping, potentially infilled feature.
Well	1881	1961	SW	91	0	No longer present after 1961 mapping, potentially infilled feature.
Factory (Disused)	1961	1988	N	96	7549	No longer present from 1988 mapping, later site if Wrexham Ind. Estate
Tanks	1961	1992	SW	100	585	
Pond	1899	1961	SW	101	77	No longer present from 1961 mapping, potentially infilled feature.
Pond	1873	2000	E	144	142	No longer present from 2000 mapping, potentially infilled feature.
Electrical Distribution Substation	1982	Present	W	170	799	Does not predate ban on PCBs
Tanks	1961	1982	SW	177	105	Gas works feature
Pond	1873	1954	NW	177	490	No longer present from 1954 mapping, potentially infilled feature.
Pond	1873	1899	SW	178	67	No longer present from 1899 mapping, potentially infilled feature.
Pond	1873	Present	SE	180	636	N/A

Feature	Date first observed	Date no longer shown	Direction (from site)	Distance (from site)	Area (m^2)	General notes
Tanks	1961	1982	SW	195	34	Gas works feature
Pond	1873	1899	SW	200	65	No longer present from 1899 mapping, potentially infilled feature.
Mineral Railway	1954	2023	SW	210	0	Mapping changed from mineral railway to dismantled railway from 1961 until present. Potentially linked to historical MoD activities
Site and surrounding area in general	From the earliest mapping records (1873), the site appears to be undeveloped, set amongst an area of agricultural activity. Following WW2, the site's eastern extent is occupied by the Royal Ordnance Factory for explosive propellants, forming part of the wider site to the north and southwest, with site buildings spaced apart but uniformly sized and spaced. Some of these structures are present on site today and potential features now hidden. The site underwent artificial landscaping following these activities. In 1961 the Wales gas board site appears south of the site which buildings are still present although renamed to office buildings in 1992. Another notable feature is a factory located north of site and active from 1961 to 1988. The former ROF footprint to the north is now Wrexham Industrial Estate. At present, the site has remained unchanged over the past decades, with the exception of the increase in surrounding potentially infilled pond due to increasing change in land use and construction of the adjacent Solar Farm.					

4.0 ENVIRONMENTAL SETTING

4.1 General

4.1.1 A number of third parties have been approached to collate information relating to the site, its environmental setting, and any issues pertaining. The following third-party sources have been utilised which are outlined in Table 4.1: Sources of Information:

Table 4.1: Sources of Information

Source	Information
Landmark	Envirocheck Report Geology Report Mining & Ground Stability Report
British Geological Survey (BGS)	BGS Open Geoscience online geological mapping tool
Ordnance Survey	OS Open Data online mapping tool
Coal Authority	Online Gazetteer of England and Wales Coal Mining Report Coal Authority Interactive Viewer
Environment Agency (EA) Online	Water Quality Data and Aquifer designation

4.1.2 The Landmark Envirocheck report is provided in Appendix B.

4.2 Published Geology

4.2.1 The British Geological Survey shows the site to be underlain by the geological succession outlined below Table 4.2: Published Geology.

Table 4.2: Published Geology

Geology	Description /strata	BGS General Description (Lexicon)
Artificial	Landscaped Ground – south and east site area	Artificially modified ground.
Superficial	Alluvium – North & West	"Alluvium is a general term for clay, silt, sand and gravel. It is the unconsolidated detrital material deposited by a river, stream or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its floodplain or delta, or as a cone or fan at the base of a mountain slope."
	Till – East and south site area	"No BGS description is available; however, these deposits are generally gravelly clay with cobbles and varying silt sand and gravel content."
Bedrock	Kinnerton Sandstone Formation	Sandstone, red-brown to yellow, generally pebble-free, fine- to medium-grained, cross-stratified.

4.2.2 There are no geological faults located within 250m of the site.

4.2.3 There are no relevant historical BGS borehole records are available for the site.

4.3 Potential Contamination Sources

4.3.1 The following potential sources of contamination have been identified.

Fuel Storage

4.3.2 There are no fuel station entries within 500m of the site. Ground storage tanks are shown on available mapping associated with the Wales Gas Board located 69 south west of site.

Contemporary Trade Directories

4.3.3 There is one contemporary trade directory within 250m of the site, located approximately 233m to the south east for gas supplies.

Local Authority Pollution Prevention and Controls

4.3.4 There is one point of interest for pollution prevention and controls, for air pollution control which is located 233m south east of site, relating to the Gas Works.

Substantiated Pollution Incident Register

4.3.5 There is one point of interest for pollution incident register, located 239m west of site relating to an unidentified pollutant.

Hazardous Substances

4.3.6 Hazardous substances have been used and recorded within 500m of the site. Located at Maelor Gas Works located 220m south, relating to liquefied and extremely flammable gas (including LPG) and natural gas (whether liquefied or not) and associated 6km pipeline.

Landfills and Waste

4.3.7 There are no landfill sites or other waste associated sites within 250m of the site boundary.

4.3.8 Information provided by Landmark indicates that there are five areas within 250m of the site where the potential for infilling is possible. These include five former ponds, may have been infilled within unknown materials.

4.3.9 There are seventeen areas identified on the historical maps within 250m of the site where the potential for infilling is possible which include former ponds that are no longer shown on map records indicating that they may have been potentially infilled within unknown materials; some of these are accounted for.

4.3.10 Made Ground may be present on the site with unknown thickness and composition.

4.4 Radon

4.4.1 The Envirocheck report shows the site is located within a lower probability radon area, as less than 1% of homes are above the action level. Therefore, no radon protection measures are necessary in the construction of new dwellings or extensions.

4.5 Hydrogeology

Superficial Deposits

4.5.1 The Environment Agency aquifer classification scheme indicates that the superficial aquifer designation for part of the site (east and south area) is classed as Secondary Undifferentiated aquifer which are generally described as having been '*assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.'* (EA general description).

4.5.2 The Environment Agency aquifer classification scheme indicates that the superficial aquifer designation for part of the site (north and west) is classed as Secondary A aquifer which are generally described as *'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers'* (EA general description).

Bedrock

4.5.3 The Environment Agency aquifer classification scheme indicates that the bedrock aquifer designation for the site is classed as Principal Aquifer which are generally described as '*these are layers of rock or drift deposits that have high intergranular and/or fracture permeability- meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer'* (EA general description).

Groundwater Abstractions

4.5.4 There are 12 licenced groundwater abstraction points within 1000m of the site. The nearest to the site is located approximately 234m to the north east for process water and general agricultural, with no others within 250m of the site.

4.5.5 The nearest public drinking water abstraction is located approximately 1897m to the south of the site.

4.5.6 It is possible that there may be private unlicensed water abstractions that exist locally in the area.

4.5.7 There are three Source Protection Zones (SPZ) within 2000m of the site. Further details are given below:

- Zone two (Outer Protective Zone), onsite
- Zone three (Total Catchment), onsite
- Zone one (Inner Protective Zone), 308m northeast

4.6 Hydrology

4.6.1 The nearest surface watercourse to the site is River Clywedog located adjacent the northern boundary, flowing from the north east to south west.

4.6.2 There is no EA General Quality Assessment (GQA) data available within relevant distance to the site.

Surface Water Abstractions

4.6.3 There are no licenced surface water abstraction points within 1000m of the site. The nearest to the site is located approximately 1691m to the southeast for general industrial use.

4.6.4 It is possible that there may be private unlicensed water abstractions that exist locally in the area.

4.7 Mining, Subsidence and Foundations

4.7.1 There are no BGS recorded mineral sites within 250m of the site boundary.

4.7.2 The Coal Authority indicates that the site is located within a coal mining area and that a Coal Authority mining report is required for the site. Subsequently a Coal Authority mining report has been commissioned for the site; and the details are given below.

- The property is not within the likely zone of influence from any coal workings from any present or future planned underground coal mining or any past, present or future planned opencast or underground coal mining.
- There are no known mine entries within the site boundary or within 20m of the site boundary.
- The Coal Authority has not received any damage notices for the property or properties within 50 m of the site since 31st October 1994.
- There is no record of any mine gas emissions requiring action by the Coal Authority at the site.
- The property has not been subject to remedial works by or on behalf of the Coal Authority.

4.7.3 The Coal Authority Report is presented in Appendix D.

4.7.4 Landmark indicates that the risk from non-coal mining is negligible.

4.7.5 The British Geological Survey provide risk ratings for the potential geological hazards outlined below in Table 4.3: Potential Geological Hazards.

Table 4.3: Potential Geological Hazards

Potential Geological Hazard	Hazard Potential
Collapsible Ground	No hazard / Very low
Compressible Ground	No hazard / Moderate
Ground Dissolution	No hazard
Landslides	Very low
Running Sands	No hazard / Very low / Low
Shrinking or Swelling Clay	No hazard / Very low

4.8 Environmentally Sensitive Sites

4.8.1 There are no significant environmentally sensitive sites within 250m of the site.

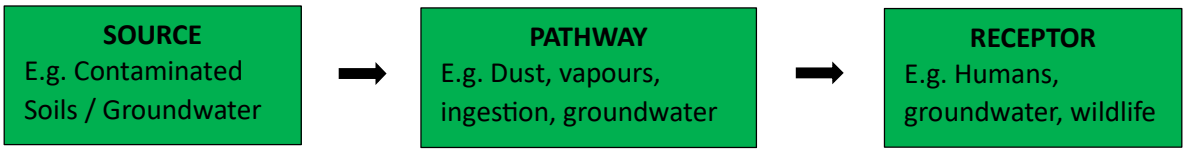
5.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

5.1 Introduction

5.1.1 In statutory guidance regarding potentially contaminated land, risk assessments are used as a technique on a site-specific basis to identify potential environmental issues. As recommended by BS 10175 an Initial Conceptual Generic Model has been formulated which defines the 'pollutant linkage' through source, pathway and receptor methodology. All three must be present in order to pose a risk to the end users and to the environment; i.e., if there is no pathway between the source and the receptor, then there is no 'pollutant linkage' and hence negligible risk to the receptor.

5.2 Risk Assessment Methodology

5.2.1 The purpose of a Phase I Preliminary Risk Assessment (PRA) is to obtain information regarding the site to gain a preliminary understanding of potential environmental issues and the potential for land contamination. This information includes existing and proposed site uses, the history of the site and surrounding area, and the environmental setting. The information obtained is used to develop a Conceptual Site Model (CSM), which describes sources (potential hazards), pathways, and receptors, which may be relevant to the site. The following definitions have been adapted from Part IIA of the Environmental Protection Act (EPA) 1990:



5.2.2 **Source** – A source can be defined as a potential contaminant, substance, or condition that has the potential to cause harm to the environment, humans or other flora and fauna.

5.2.3 **Pathway** – A pathway is defined as the route by which a source is brought into contact with a receptor. This can include the transport of contamination via groundwater, wind borne dust, vapours, excavation and deposition, dermal contact, ingestion and inhalation.

5.2.4 **Receptor** – Receptors are defined as anything that can be affected by a source such as human beings, flora and fauna, other living organisms, groundwater and surface water, physical systems and built structures.

5.2.5 Some of the above, such as groundwater, surface water, flora, and fauna can be considered as both pathways and receptors.

5.2.6 A risk may be considered present if all three of the above exist and thereby form a "**pollutant linkage**".

5.3 Outline Conceptual Site Model

5.3.1 As part of this Phase I Preliminary Risk Assessment, the following potential sources, pathways and receptors have been considered and are discussed below.

Potential Sources (on and off site):

5.3.2 The following are potential sources of contamination that have been considered: -

- Made Ground / reworked soils and rock beneath the site associated with construction and demolition on site and of the surrounding area.

- Potential for contamination to have occurred at the site as a result of historical and contemporary land uses and processes on the site and within influencing of the distance.
- Potential for mobile and leachable contamination at the site associated with historical and contemporary land uses and processes both on site and within influencing of the distance.
- Potential for volatile and semi-volatile contamination at the site associated with historical and contemporary land uses and processes both on site and within influencing of the distance.
- Historic electrical substations on the site and within influencing of the distance.
- Potential for hazardous ground gasses associated with any Made Ground, landfill sites and other areas of potentially infilled land both on site and within influencing distance of the site.

Potential Pathways

5.3.3 The following potential pathways have been identified at the site:

- Ingestion of contaminated soils.
- Inhalation of site generated particulates.
- Dermal contact with contaminated materials.
- Ingestion of home grown produce.
- Inhalation of hazardous ground gasses.
- Build-up of hazardous ground gasses in confined spaces.
- Groundwater.
- Surface water courses within influencing of the distance.

Potential Receptors

5.3.4 The following potential receptors have been identified:

- Current site end users.
- Future site end users.
- Construction workers.
- Members of the public and neighbouring site users.
- Neighbouring land.
- Aquifers and drinking water.
- Surface water courses within influencing of the distance.
- Flora and fauna.
- Other ecosystems.

5.4 Preliminary Risk Assessment

5.4.1 The Preliminary Risk Assessment has been evaluated using a probability / consequence matrix, which is provided in Appendix C.

5.4.2 The underlying geology of the site and surrounding area is indicated to be Alluvium (vicinity of River) or Till (East and south area) overlying Kinnerton Sandstone Formation which are of varying permeability from medium to high.

5.4.3 The following risk assessment has been based on the above information and the proposed development as detailed in Section 2.0.

5.4.4 The discussion below assesses the likelihood of potential Contaminants of Concern (CoC's) with a justification on whether they would likely be present. The CSM in Table 5.1 then provides a risk rating for the site.

Land Contamination

5.4.5 From the information available, the site itself has had significant historical use as a Royal Ordnance Factory during the period of WW2, with geological mapping records indicating artificially landscaped ground in the footprint of the east and south portion of the site. It is therefore likely that Made Ground will be present beneath the site associated with past construction and demolition and site generated processes. Therefore, the probability for heavy metals, metalloids & inorganics, and PAH to be present on or beneath the site is considered to be **likely.**

5.4.6 Historical and contemporary land uses likely to produce mobile, organic and leachable contamination both on the site and within influencing distance have been identified. Considering the distances between the features and the site, and the medium to high permeability of the underlying geology beneath the site, the probability for mobile, organic and leachable contamination to be present at the site is considered to be **low likelihood.**

5.4.7 Historical and contemporary land uses likely to produce volatile contamination (VOC's & SVOC's) both on the site and within influencing distance have been identified. Considering the distances between the features and the site, and the medium to high permeability of the underlying geology beneath the site, the probability for VOC's & SVOC's to be present at the site is considered to be **low likelihood.**

5.4.8 There is one electric distribution substation within influencing distance of the site which may be a source of Polychlorinated Biphenyls contamination (PCB's). Further details are given below.

- Substation located approximately 170m to the west, first observed on the 1982 map.

5.4.9 This doesn't predate the 1981 ban on PCB's. However, given the presence of historical railway and MoD activities, this may have given rise to PCB contamination. Therefore, considering the distances between the features and the site, and the medium to high permeability of the underlying geology beneath the site, the probability for PCB contamination at the site is **low likelihood**.

5.4.10 It is possible that further electric substations or former electric substations are present within influencing distance to the site associated with the surrounding area that have not been identified on the historical maps.

5.4.11 Asbestos fibres and Asbestos Containing Materials (ACM's) could be present within any Made Ground and or shallow natural soils beneath the site as a result of historic site uses, and phases of construction

and demolition. Therefore, the probability for ACM's to be present at the site is considered to be **low likelihood**.

5.4.12 Given the identified presence of MoD production of explosive propellants on portion of the site and wider surrounding area, the risk of explosive materials is yet to be determined and should be assessed by a person trained and qualified with suitable experience in Explosive Safety Management (ESM) and the ability to identify buildings, processes, materials associated with explosive operations during the site inspection. Buildings that have been used for the manufacture or processing of explosives are likely to contain residues of explosives and represent a significant potential explosives hazard.

5.4.13 Therefore, based on the above, the site history, and the environmental information available, the potential contaminants identified on this site include heavy metals, metalloids & inorganics; PAH's; leachable contamination, hydrocarbons & organic contamination; volatiles; PCB's; and asbestos, and the risk to human health is considered to be **Moderate.**

Hazardous Ground Gasses

5.4.14 There are no landfill or waste facilities within 250m, however, there are a number of potentially infilled pond features on the site and within 250m of the site. Furthermore the site has had historical use as a Royal Ordnance Factory for production of explosive propellant.

5.4.15 Considering the distances between the features and the site, the probability of hazardous gases being present beneath the site is likely, and therefore the risk from hazardous ground gases is considered to be **Moderate**.

5.4.16 Landmark indicates that the site is within a lower probability radon area, as less than 1% of homes are above the action level. Therefore, no radon protection measures are necessary in the construction of new dwellings or extensions.

Groundwater

5.4.17 The Environment Agency aquifer classification scheme indicates that the superficial aquifer designation for east and south area of the site is classed as Secondary Undifferentiated aquifer and the designation for north and west site area is classed as Secondary A aquifer. The underlying bedrock aquifer is classed as Principal Aquifer and the site located in a Source Protection Zone two (Outer Protective Zone).

5.4.18 The nearest public drinking water abstraction is located approximately 1897m to the south of the site.

5.4.19 The potential contaminants identified on this site include heavy metals, metalloids and inorganics; PAH's; leachable contamination, hydrocarbons & organic contamination; volatiles; and PCB's.

5.4.20 Therefore, based on the above, the environmental information available, and considering the medium to high permeability of the underlying geology, the proximity of the nearest potable groundwater abstraction point, the probability for contamination at the site to impact the groundwater is low likelihood, and therefore the risk to groundwater is considered to be **Low to moderate.**

Surface Water

5.4.21 The River Clywedog borders the site to the north, flowing west to east. There are no surface water abstraction points within 1000m.

5.4.22 The potential contaminants identified on this site include heavy metals, metalloids and inorganics; PAH's; leachable contamination, hydrocarbons & organic contamination; volatiles; and PCB's.

5.4.23 Therefore, based on the above, the environmental information available, and considering the medium to high permeability of the underlying geology, and the proximity of the nearest surface water feature, the probability for contamination at the site to impact the surface water courses is low likelihood, and therefore the risk to surface water courses is considered to be **low to moderate.**

Plants and Native Grasses

5.4.24 Any plants that may be grown at the site in areas of landscaping may potentially be at risk from phytotoxic elements in any artificial soils beneath the site.

5.4.25 Therefore, based on the above, the site history, and the environmental information available, the potential contaminants identified on this site may include heavy metals, metalloids & inorganics, the risk to plants is considered to be **Low**.

Water Supply / Plastic Pipes

5.4.26 Any organic contamination present in the soils or groundwater beneath the site would pose a risk of premature failure to below ground services via chemical reaction.

Preliminary Conceptual Site Model

5.4.27 From the above information a CSM has been produced showing the preliminary conceptual model and potential pollutant linkages for the site and is presented overleaf in Table 5.1

5.4.28 At this stage only contaminants of concern that are considered potentially present from the information available have been included in the CSM.

Table 5.1: Preliminary Conceptual Site Model and Potential Pollutant Linkages

Potential Sources	Contaminants of Concern	Potential Pathway	Potential Receptor	Potential Pollutant Linkage	Probability	Consequence	Risk Classification	Action / Mitigation / Justification
Made Ground both on site and within influencing distance of the site Current and former land uses both on site and within influencing distance of the site	Heavy metals, sulphates and inorganics PAH's Asbestos Mobile organic contamination SVOC's and VOC's PCB's Leachable contamination UXO	Ingestion Inhalation Dermal Contact	**Human health** Including current site users, future site users	Considered active	Unlikely	Medium	**Low**	Site to be completely covered by a solar farm with very limited site users, thus creating limited exposure to the pollutant linkage. Given the site's historical use, site investigation required.
			Human health Construction workers	Considered active	Likely	Medium	**Moderate**	Identified UXO risk from explosive manufacturing on the site. Potential contamination associated with these ROF activities requires specialist UXO study and a site investigation to understand the risk from contamination and inform on ground conditions following the UXO assessment. Works to be conducted with extreme care to a written protocol under the supervision of an experienced person trained in explosives safety management.
			Human health Neighbouring residents	Considered active	Unlikely	Mild	**Very low**	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.
Landfill sites Potentially infilled Land (ponds, quarries, reservoirs etc)	Hazardous ground gases including CO_2, CH_4 CO, H_2S Vapours	Inhalation Explosion	**Human health** Including current site users, future site users, neighbouring residents and constructions workers	Considered potentially active	Unlikely	Severe	**Low to Moderate**	Given the proposed development consists of extension of the adjacent solar farm, with no enclosed or confined spaces being included, it is considered that there is not an active pathway. However, no construction workers are to enter excavations without appropriate clearance and PPE.

Potential Sources	Contaminants of Concern	Potential Pathway	Potential Receptor	Potential Pollutant Linkage	Probability	Consequence	Risk Classification	Action / Mitigation / Justification
Explosives Manufacturing (ROF) Made Ground Natural organic soils Coal mining Fuel Stations (on and off-site sources)		Explosion	**Buildings**	Considered potentially active	Low likelihood	Medium	**Moderate**	Given the proposed development consists of extension of the adjacent solar farm, with no enclosed or confined spaces being included, it is considered that there is not an active pathway to future site users. However, no construction workers are to enter excavations without appropriate clearance and PPE. Existing ROF buildings on site require UXO assessment and inspection, as explosive propellant can accumulate under floor spaces over time.
Made Ground on site Current and former land uses on site	Heavy metals, sulphates and inorganics PAH's Mobile organic contamination SVOC's and VOC's PCB's Leachable contamination	Lateral and vertical migration and leaching of contaminants into local groundwater	**Underlying Aquifer** (Potable water)	Considered potentially active	Low likelihood	Medium	**Low to Moderate**	Given the site's historical use, site investigation required to understand potential for contamination in the area of ROF activities.

Potential Sources	Contaminants of Concern	Potential Pathway	Potential Receptor	Potential Pollutant Linkage	Probability	Consequence	Risk Classification	Action / Mitigation / Justification
Made Ground on site Current and former land uses on site	Heavy metals, sulphates and inorganics PAH's Mobile organic contamination SVOC's and VOC's PCB's Leachable contamination	Lateral and vertical migration and leaching of contaminants into surface water bodies via permeable strata and features.	Local **water courses** and associated flora and fauna	Considered potentially active	Low likelihood	Medium	**Low to moderate**	Given the site's historical use, site investigation required to understand potential for contamination in the area of ROF activities and the adjacent water course to the north.
Made Ground beneath the site Current and former site uses	Phytotoxic elements	Plant uptake	**Plants and vegetation**	Considered potentially active	Low likelihood	Minor	**Very low**	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.

6.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

6.1 General

6.1.1 The underlying shallow geology is likely to consist of Alluvium, Till overlying Kinnerton Sandstone Formation which generally comprises sandstone.

6.1.2 Made Ground may also be present on site.

6.1.3 Based upon the information reviewed, a list of potential geotechnical risks has been outlined below in Table 6.1: Potential Geotechnical Risks, which presents a summary of the likely geotechnical risks potentially present at the site.

Table 6.1: Potential Geotechnical Risks

Features of Concern	Geotechnical Consideration	Geotechnical Risk to Proposed Development	Likelihood
Made Ground	Any potential Made Ground beneath the site.	Made Ground can cause total and differential settlement of any new structures.	**Likely**
Trees and vegetation	Large mature trees on site or within close proximity to the site boundaries.	Tree roots have the potential to cause clay soils to shrink causing settlement of new structures.	**Possible**
Shrinkage and expansion of clay soils	Clay soils beneath the site.	Potential for shrinkage and / or heave of clay soils causing damage to new structures.	**Possible**
Groundwater ingress	Shallow groundwater beneath the site.	Shallow ground water can have an impact on construction and foundation excavations. Pumping and / or dewatering may be required.	**Likely**
Existing / former foundations and underground structures	New buildings may be situated upon the sites of former demolished buildings or buildings that will be demolished as part of the proposed development.	Uneven founding, inconsistent ground conditions, and unsuitable bearing capacity for new structures.	**Likely**
Aggressive ground	Chemical content of the soils beneath the site.	Chemically aggressive ground may have the potential to attack buried concrete.	**Possible**
Soft / loose / weak soils and / or rock beneath the site	Unsuitable founding strata beneath the site.	Soft and lose soils or weak rock may be in adequate to found on. A suitable foundation option should be selected based on the actual ground conditions beneath the site.	**Possible**
Embankments	Unstable slopes and embankments.	Collapse onto or into any new developments	**Unlikely**
Shallow mine workings beneath the site	Coal seams or mine entries present on or beneath the site which may have been worked in the past. Non coal related mining.	Worked mine seams or areas of mineral extraction leave voids underground that have the potential to settle when new loads are placed above them.	**Unlikely**
Ground Dissolution	Dissolution of carbonaceous geology beneath the site.	Carbonaceous ground beneath the site can dissolve over time with groundwater percolating through causing sink holes giving rise to settlement or complete collapse of structures.	**Negligible**

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

Environmental

7.1.1 A review of the preliminary information reveals that future end users of the site are potentially at **Low** risk of being affected by contamination in soils and / or groundwater beneath this site.

7.1.2 Risks to construction workers from the site are considered to be **Moderate** at this stage.

7.1.3 Risks to neighbouring residents from the site are considered to be **Low** at this stage.

7.1.4 The risks of hazardous ground gasses affecting the site are considered to be **Moderate** at this stage.

7.1.5 The risks to drinking water and groundwater are considered to be **Low to Moderate** at this stage.

7.1.6 The risks to surface waters are considered to be Low to Moderate at this stage.

7.1.7 Risks to plants and native grasses are considered to be **Very Low** at this stage.

Geotechnical

7.1.8 The nature and distribution of geotechnical properties of the near surface strata have not been fully identified within this study, therefore it is not possible at this stage, to give meaningful advice as to the type, nature, and construction of any foundations for the proposed development.

7.1.9 Inadequately designed buried concrete may be at risk from potentially elevated sulphates and low pH in the soils and groundwater beneath the site.

7.1.10 The site is not considered to be affected shallow coal mining. Therefore, risks from shallow coal mining are considered to be **Very Low** at this stage.

7.1.11 The site is not considered to be affected by ground dissolution. Therefore, risks from ground dissolution are considered to be **Very Low** at this stage.

7.2 Recommendations

7.2.1 It is required that a detailed UXO assessment is carried out at the site prior to intrusive work be undertaken.

7.2.2 It is recommended that a suitable combined phase II environmental and geotechnical site investigation is carried out at the site to establish the presence, type and nature of any contamination at the site and provide a Generic Quantitative Risk Assessment (GQRA); and, to identify the ground conditions and provide details of their engineering properties in order to facilitate foundation design for the proposed development. All works, depending on the anticipated risk following completion of a UXO desk study, should be either supervised or conducted by a person trained and qualified with suitable experience in explosive safety management (ESM).

7.2.3 It is recommended that the above conclusions and recommendations are agreed in principle with the Local Planning Authority (LPA) to gain their approval prior to commencement of the development to avoid unnecessary complications or delays at a later stage.

7.3 Other Considerations

Unexploded Ordnance

7.3.1 It is required that a detailed UXO assessment is carried out at the site. Any subsequent intrusive works may then require on-site UXO clearance subject to the findings of the initial UXO report.

7.3.2 All site inspections and intrusive works, depending on the anticipated risk, should be either supervised or conducted by a person trained and qualified with suitable experience in explosive safety management (ESM).

Plastic Water Pipes

7.3.3 Any organic contamination present in the soils or groundwater beneath the site would pose a risk of premature failure to below ground services via chemical reaction.

7.3.4 Any subsequent Phase II Site Investigation would be primarily concerned with human health risk assessment.

7.3.5 Considerations should be given to sampling and chemical analysis of the materials that any plastic water supply pipes will be laid in.

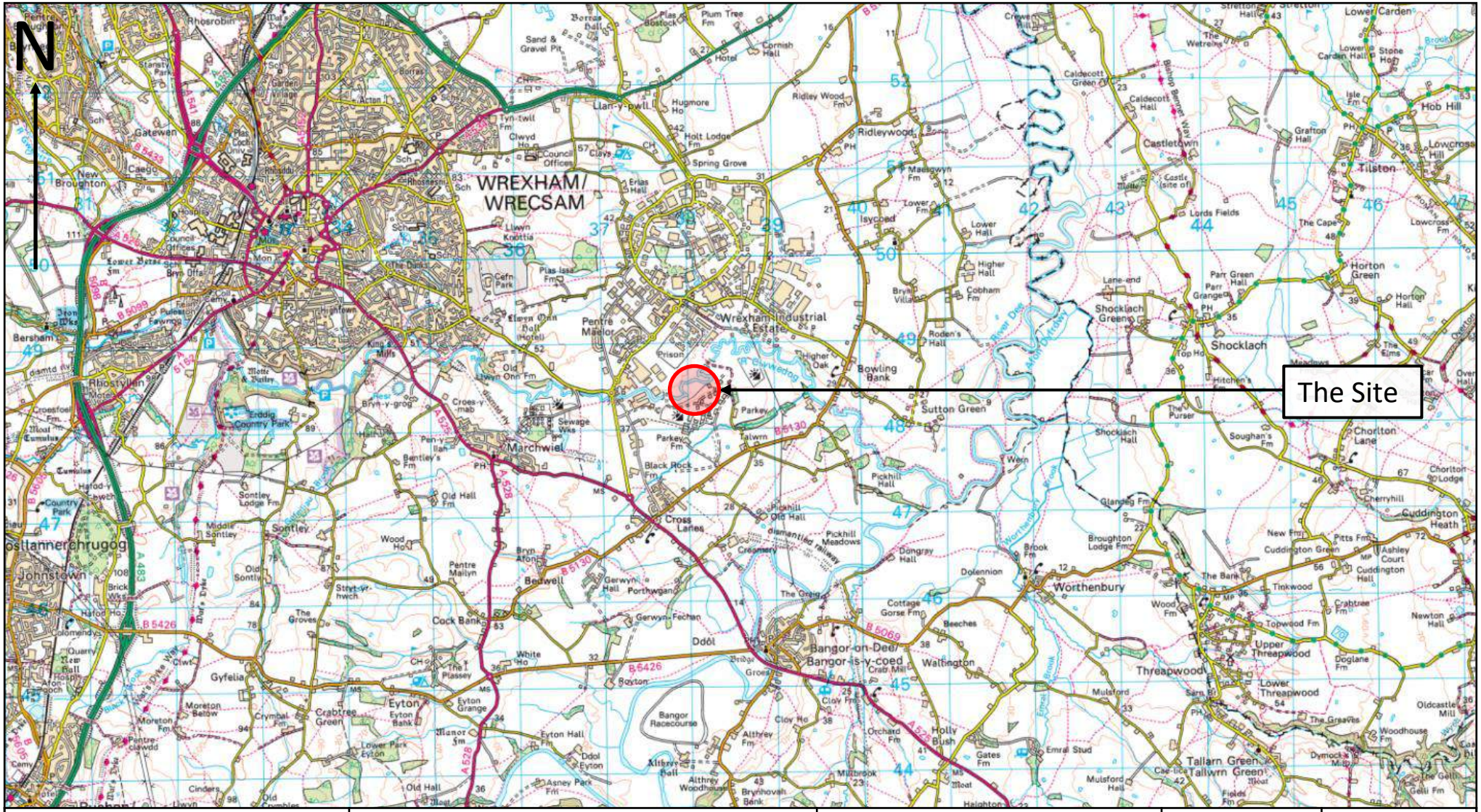
7.3.6 It is also likely that the water utilities provider will require their own risk assessment to be completed.

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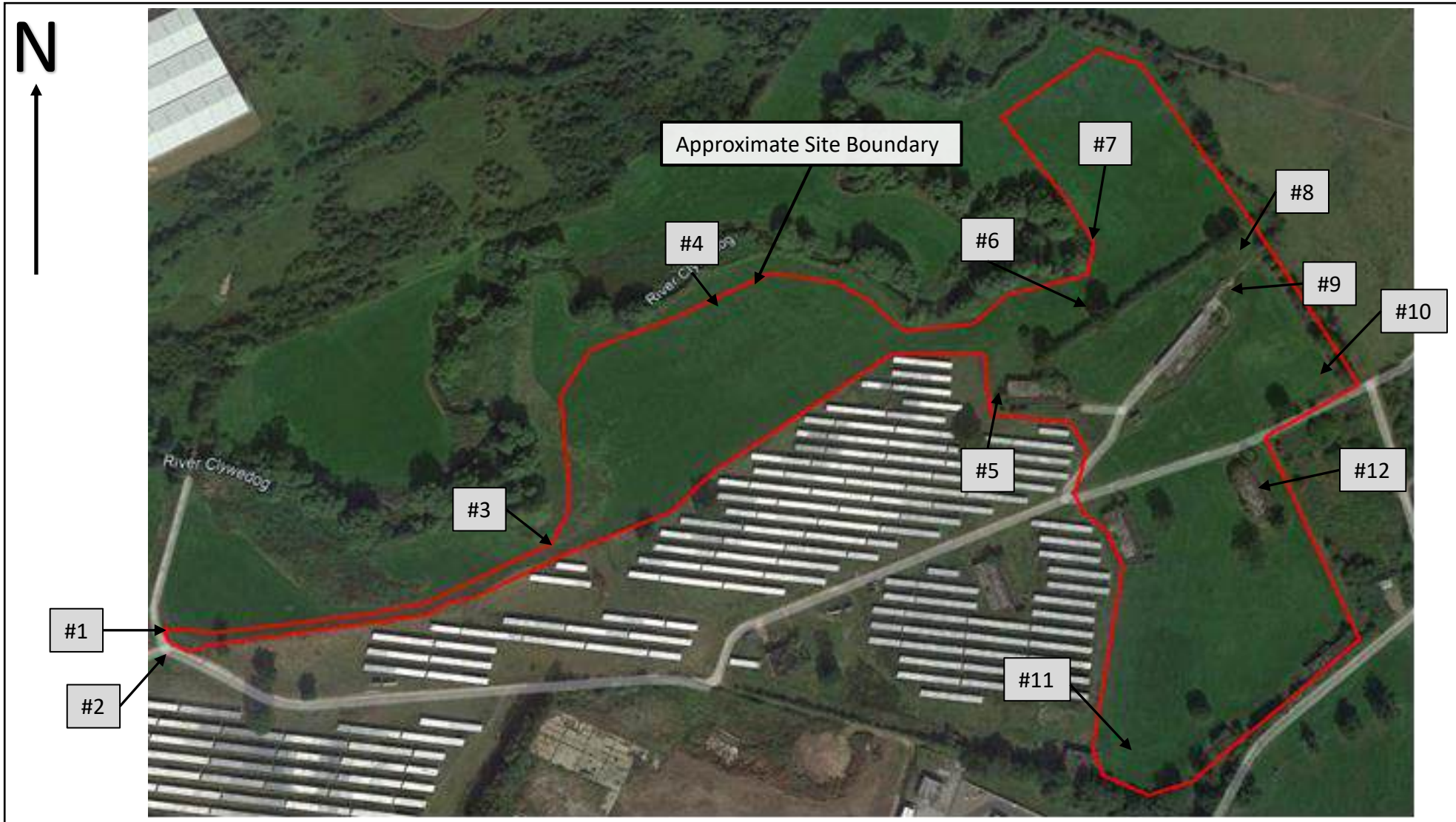
APPENDIX A

DRAWINGS



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PROJECT ID	DRAWING NUMBER	SCALE
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TITLE	**DATE**	**DRAWN BY**
Site Location Plan	December 2023	MP



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PROJECT ID	DRAWING NUMBER	SCALE
GSI 2006 Solar Farm, Wrexham	GSI 2006/02	N.T.S
TITLE	**DATE**	**DRAWN BY**
Site Location Plan	December 2023	MP

N



#1



#2



#3



#4



#5



#6

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PROJECT ID	DRAWING NUMBER	SCALE
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TITLE	**DATE**	**DRAWN BY**
Site Walkover Plan	December 2023	MP

N



#7



#8



#9



#10



#11



#12

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GSI 2006 Solar Farm, Wrexham	GSI 2006/02	N.T.S
TITLE	**DATE**	**DRAWN BY**
Site Walkover Location Plan	December 2023	MP



GEOCON®	GeoCon Site Investigations Ltd Suite 2 Marple House, 39 Stockport Road, Marple, Stockport, SK6 6BD. Tel: 0844 504 3901, Fax: 0844 504 3902, Email: info@geoconsiteinvestigations.com Web: www.geoconsiteinvestigations.com	**PROJECT ID** GSI 2006 Solar Farm, Wrexham	**DRAWING NUMBER** GSI 2006/03	**SCALE** N.T.S
		TITLE Historical Photography: ROF Wrexham 1946	**DATE** December 2023	**DRAWN BY** MP

APPENDIX B

ENVIROCHECK REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
325490765_1_1

Customer Reference:
GSI 2006

National Grid Reference:
337930, 348420

Slice:
A

Site Area (Ha):
9.63

Search Buffer (m):
1000

Site Details:

Solar Farm, Wrexham
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Wrexham
LL13 0UT

Client Details:

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	40
Hazardous Substances	47
Geological	48
Industrial Land Use	51
Sensitive Land Use	66
Data Currency	67
Data Suppliers	73
Useful Contacts	74

Introduction

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

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Report Version v53.0

GEOCON®

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 3		6	2	14
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 8				2
Integrated Pollution Controls	pg 9				4
Integrated Pollution Prevention And Control	pg 9			1	7
Local Authority Integrated Pollution Prevention And Control	pg 11				2
Local Authority Pollution Prevention and Controls	pg 11		1	1	5
Local Authority Pollution Prevention and Control Enforcements	pg 12				1
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 13		1	5	30
Prosecutions Relating to Authorised Processes	pg 19				1
Registered Radioactive Substances	pg 19		2		1
River Quality	pg 19	1		1	
River Quality Biology Sampling Points	pg 20				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 20		1	1	6
Water Abstractions	pg 21		5	6	1 (*11)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 27	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 27	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 27	Yes	n/a	n/a	n/a
Source Protection Zones	pg 28	2		1	
Extreme Flooding from Rivers or Sea without Defences	pg 28	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 28	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 28		21	13	68

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	pg 40				2
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 40				10
Local Authority Landfill Coverage	pg 42	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 42	1	4	5	25
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 44				1
Registered Waste Treatment or Disposal Sites	pg 44				5
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 47		2		
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 47		1		
Planning Hazardous Substance Consents	pg 47		1		
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 48	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 48	Yes			Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 48	Yes	n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 48	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 49	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 49	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 49	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 49	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 49	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 49	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 51		1	6	87
Fuel Station Entries					
Points of Interest - Commercial Services	pg 59				20
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 61		7	8	10
Points of Interest - Public Infrastructure	pg 63				21
Points of Interest - Recreational and Environmental	pg 65				1
Gas Pipelines	pg 65		1		
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	pg 66		1	2	4
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	A7NE (E)	0	1	338000 348421
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (NW)	0	1	337927 348421
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SW (E)	0	1	338250 348550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SE)	0	1	338050 348300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SW (NE)	0	1	338300 348600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (W)	11	1	337850 348421
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (S)	19	1	337927 348250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (NE)	32	1	338000 348550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SE)	34	1	338050 348250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SE (N)	35	1	337927 348500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (NE)	45	1	338050 348600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NW (SW)	50	1	337750 348250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (W)	56	1	337850 348450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (NW)	67	1	337900 348450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (N)	74	1	338000 348600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (N)	80	1	337900 348500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NE)	97	1	338050 348650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (NW)	106	1	337850 348500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SE (NE)	116	1	338100 348750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NW (SW)	120	1	337700 348200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NW (NE)	153	1	338150 348850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (SW)	159	1	337650 348200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NW (NE)	174	1	338200 348900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	185	1	337927 348100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SW)	191	1	337650 348150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (SE)	193	1	338350 348050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NW (NE)	217	1	338250 348950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SW)	229	1	337600 348150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	243	1	338350 348000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (SE)	248	1	338300 348000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	255	1	338200 348000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SW)	262	1	337600 348100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	269	1	337927 348000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (NW)	284	1	337750 348650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	293	1	338300 347950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SW)	299	1	337550 348100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (SE)	314	1	338200 347950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	331	1	338150 347950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SW)	332	1	337550 348050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NE (N)	332	1	338050 349050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	393	1	338200 347850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	407	1	338900 348421
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	409	1	338900 348300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (SW)	409	1	337450 348050

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	(E)	416	1	338850 348700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (S)	419	1	337900 347850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (S)	425	1	338150 347850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SW)	448	1	337550 347900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	468	1	338950 348500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	477	1	338950 348600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SE (SW)	479	1	337400 348000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A3NE (S)	493	1	338100 347750
1	**Discharge Consents** Operator: J K Industries Property Type: Civil Engineering Location: Firestone Site Wrexham Industrial E, Wrexham Industrial Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0033901 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A11SE (NE)	66	2	338110 348620
2	**Discharge Consents** Operator: Tetra Pak Property Type: Undefined Or Other Location: Maelor Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0077201 Permit Version: 1 Effective Date: 24th October 1973 Issued Date: 24th October 1973 Revocation Date: 23rd February 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	68	2	337720 348320
3	**Discharge Consents** Operator: J K Industries Property Type: Rubber Tyre & Inner Tube Manufacture Location: Firestone Site Wrexham Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0033801 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A12SW (NE)	86	2	338260 348810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Lend Lease Construction (Emea) Limted Property Type: General Construction Work Location: Ss/Ph Unit@North Wales Prison Proje, North Wales Prison Project, Bridge Road, Wrexham Industrial Estate, Wrexham, Ll13 9qa Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprab3790hg Permit Version: 1 Effective Date: 18th March 2016 Issued Date: 18th March 2016 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: River Clywedog **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12SW (NE)	87	2	338144 348688
4	**Discharge Consents** Operator: Lend Lease Construction (Emea) Limted Property Type: General Construction Work Location: Ss/Ph Unit@North Wales Prison Proje, North Wales Prison Project, Bridge Road, Wrexham Industrial Estate, Wrexham, Ll13 9qa Authority: Natural Resources Wales Catchment Area: CLYWEDOG - DEE TO GWENFRO Reference: Ab3790hg Permit Version: 1 Effective Date: 18th March 2016 Issued Date: 18th March 2016 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: River Clywedog **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A12SW (NE)	87	2	338144 348688
5	**Discharge Consents** Operator: J K Industries Property Type: Civil Engineering Location: Firestone Site Wrexham Ind Estate, Wrexham Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0034001 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	141	2	337790 348430
6	**Discharge Consents** Operator: Tetra Pack Wrexham Ltd, Fao D G Jones Property Type: Undefined Or Other Location: Wrexham Ind Estate Bedwell Road Mae, Bedwell Road Maelor Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0083701 Permit Version: 1 Effective Date: 1st June 1978 Issued Date: 1st June 1978 Revocation Date: 21st August 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	341	2	337470 348430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Tetra Pack Wrexham Ltd, Fao D G Jones Property Type: Undefined Or Other Location: Wrexham Tetra Pak Wrexham Ltd. Bedw, Tetra Pak Wrexham Ltd. Bedwell R, Bedwell Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0146401 Permit Version: 1 Effective Date: 23rd December 1985 Issued Date: 23rd December 1985 Revocation Date: 21st August 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A6NE (W)	482	2	337300 348320
8	**Discharge Consents** Operator: Alan'S Skip Hire Wales Limited Property Type: Not Supplied Location: Wrexham Recycling Centere Rewither, Wrexham Recycling Centre, Redwither Road, Wrexham Industrail Estate, Wrexham, Ll13 9rd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0402201 Permit Version: Not Supplied Effective Date: 31st October 2002 Issued Date: 31st October 2002 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The Redwither Brook **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	524	2	338474 349230
9	**Discharge Consents** Operator: Dr M S & Mrs M G Khalifa Property Type: Domestic Property (Single) Location: Talwrn House & Outbuildings, Pickhill, ., Wrexham, Ll13 0ul Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0396401 Permit Version: 1 Effective Date: 28th November 2001 Issued Date: 28th November 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Bedwell Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	566	2	338800 347840
10	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093101 Permit Version: 1 Effective Date: 19th May 1982 Issued Date: 19th May 1982 Revocation Date: 21st June 1996 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A6NE (W)	592	2	337200 348400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Norwest Holst Group Property Type: Civil Engineering Location: Wrexham Ind Estate Conren Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0086201 Permit Version: 1 Effective Date: 4th October 1979 Issued Date: 4th October 1979 Revocation Date: 26th April 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Trib. Of Rewither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A15SE (N)	793	2	338100 349500
12	**Discharge Consents** Operator: Royalite Plastics Ltd Property Type: Undefined Or Other Location: Wrexham Ind Estate British Celanese, British Celanese Site Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0001801 Permit Version: 1 Effective Date: 31st January 1966 Issued Date: 31st January 1966 Revocation Date: 26th February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Trib.Of Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A15NE (N)	864	2	338130 349580
13	**Discharge Consents** Operator: Forthminster West Midlands Ltd Property Type: Undefined Or Other Location: Wrexham -Development At Cross Lane, -Development At Cross Lane March, Marchwiel Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0091401 Permit Version: 1 Effective Date: 17th June 1981 Issued Date: 17th June 1981 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Bedwell Brook (Trib.Of Clywedo **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A3SW (S)	865	2	337650 347420
13	**Discharge Consents** Operator: Forthminster North Wales Ltd Property Type: Undefined Or Other Location: Marchwiel Cross Lanes Bedwell Rd.Ho, Cross Lanes Bedwell Rd.Housing D, Bedwell Rd.Housing Devlpt. Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0085201 Permit Version: 1 Effective Date: 7th February 1979 Issued Date: 7th February 1979 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Bedwell Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A3SW (S)	894	2	337610 347400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Ball Packaging Europe Uk Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0085401 Permit Version: 2 Effective Date: 9th March 1994 Issued Date: 9th March 1994 Revocation Date: 21st January 2004 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A15NE (N)	870	2	337950 349530
14	**Discharge Consents** Operator: Continental Can Company Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0085401 Permit Version: 1 Effective Date: 30th April 1979 Issued Date: 30th April 1979 Revocation Date: 8th March 1994 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A15NE (N)	870	2	337950 349530
15	**Discharge Consents** Operator: Wrexham Borough Council Property Type: Sewerage Network - Sewers - Water Company Location: Five Fords Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0005701 Permit Version: 1 Effective Date: 25th November 1968 Issued Date: 25th November 1968 Revocation Date: 5th March 1986 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A6NW (W)	888	2	336900 348400
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Five Fords Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0005702 Permit Version: 1 Effective Date: 25th November 1968 Issued Date: 25th November 1968 Revocation Date: 17th November 2003 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A6NW (W)	888	2	336900 348400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind Estate Factory/Coedaben, Factory/Coedaben Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0064501 Permit Version: 1 Effective Date: 27th April 1971 Issued Date: 27th April 1971 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A15SE (N)	889	2	337850 349500
17	**Discharge Consents** Operator: Welsh Development Agency Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Ro, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0149901 Permit Version: 1 Effective Date: 13th January 1987 Issued Date: 13th January 1987 Revocation Date: 27th March 1995 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A15NE (N)	988	2	338100 349700
18	**Discharge Consents** Operator: Manweb Plc Property Type: SUB-STATION/ELECTRICITY/GAS/AIR CONDITIONING SUPPLY Location: Marchwiel Abbey Rd 33kv Sub-Station Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: CM0015701 Permit Version: Not Supplied Effective Date: 16th April 1963 Issued Date: 16th April 1963 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib.Of Redwither Bro **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A16NE (NE)	988	2	338500 349700
19	**Prosecutions Relating to Controlled Waters** Location: Red Wither Brook, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, Ll13 9 Prosecution Text: Liquid Waste Collected And Flushed Into A Septic Tank Designed For Domestic Waste Prosecution Act: Wra91 S85(1) & S85(6) Hearing Date: 14th February 2003 Verdict: Guilty Fine: 100000 Cost: 114818 Positional Accuracy: Manually positioned within the geographical locality	A16SW (N)	747	3	338172 349469
20	**Enforcement and Prohibition Notices** Location: Clinical Waste incinerator, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Sm43/01kc Enforcement Date: 18th February 2001 Details: Company Served Notice Following Disposal Of Liquid Waster By Methods Other Than Incineration. The Notice Requires The Company To Only Dispose Of Liquid Waste As Per Their Authorisation. Positional Accuracy: Manually positioned to the road within the address or location	A16NE (NE)	978	3	338529 349683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Enforcement and Prohibition Notices** Location: Clinical Waste Incinerator, Malborough Road, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Not Supplied Enforcement Date: 22nd September 2000 Details: Enforcement Notice Sreved Following The Identification Of Actual And Potential Contraventions Of The Authorisation With Regard To Monitoring Of Emissions. The Notice Requires A Programme Of Improvements To Ensure Compliance With Monitoring Requirements. Positional Accuracy: Manually positioned to the road within the address or location	A16NE (NE)	983	3	338535 349687
21	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Wrexham, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: BD8312 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Revoked - Now IPPC** Positional Accuracy: Automatically positioned to the address	A15SW (N)	851	3	337624 349263
21	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: AX6443 Dated: 1st May 1997 Process Type: IPC major (substantial) variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A15SW (N)	854	3	337619 349263
21	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9SQ Authority: Environment Agency, Welsh Region Permit Reference: AS4117 Dated: 4th December 1995 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A15SW (N)	858	3	337619 349268
22	**Integrated Pollution Controls** Name: Stadex Industries Ltd Location: Coed Aben Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9UH Authority: Environment Agency, Welsh Region Permit Reference: BF1220 Dated: 8th June 1999 Process Type: IPC new application Description: 6.2 A (D) Di-isocyanate processes within Miscellaneous Industries **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A15NW (N)	998	3	337720 349546
23	**Integrated Pollution Prevention And Control** Name: Cott Wrexham (Calypso) Manufacturing Site Location: Wrexham Soft Drinks, Unit D-F, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9QA Authority: Natural Resources Wales Permit Reference: AB3094FQ Original Permit Ref: Not Supplied Effective Date: 22nd May 2018 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 PART A (1) D) (II) Activity Description: Not Supplied Primary Activity: Y	A16SW (N)	448	2	338233 349176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Integrated Pollution Prevention And Control** Name: Wrexham Aluminium Works Epr/Bk3638if Location: Wrexham Aluminium Processing Ea/Epr/Bk3638if/V002, Bridge Road, Wrexham Industrial Estate,,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: Bk3638if Original Permit Ref: Not Supplied Effective Date: 21st October 2020 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 PART A (1) B) (II) Activity Description: Not Supplied Primary Activity: Y Activity Code: 2.2 PART A (1) B) (I) Activity Description: Not Supplied Primary Activity: N	A15SW (N)	858	2	337619 349268
24	**Integrated Pollution Prevention And Control** Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing Ea/Epr/Bk3638if/V002, Bridge Road, Wrexham Industrial Estate,,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: HP3338VH Original Permit Ref: Bk3638if Effective Date: 20th June 2014 **Status: Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A15SW (N)	858	2	337619 349268
24	**Integrated Pollution Prevention And Control** Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing Ea/Epr/Bk3638if/V002, Bridge Road, Wrexham Industrial Estate,,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: BP3934LJ Original Permit Ref: Bk3638if Effective Date: 14th July 2009 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A15SW (N)	858	2	337619 349268
24	**Integrated Pollution Prevention And Control** Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing Ea/Epr/Bk3638if/V002, Bridge Road, Wrexham Industrial Estate,,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: FP3836WE Original Permit Ref: Bk3638if Effective Date: Not Supplied **Status: Valid** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A15SW (N)	858	2	337619 349268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Integrated Pollution Prevention And Control** Name: Black Rock Farm Poultry Unit Location: Black Rock Farm, Sesswick Way, Cross Lanes, Wrexham, Wrexham, LL13 0SQ Authority: Natural Resources Wales Permit Reference: AB3190ZZ Original Permit Ref: Not Supplied Effective Date: 2nd July 2021 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 6.9 A(1) (A) (I) Activity Description: Not Supplied Primary Activity: Y	A2NE (SW)	875	2	337343 347526
26	**Integrated Pollution Prevention And Control** Name: Wrexham Mill Location: Bridge Rd North, Wrexham Ind Est, Wrexham, Wrexham Cbc, LL13 3PS Authority: Natural Resources Wales Permit Reference: AB3492ZQ Original Permit Ref: Not Supplied Effective Date: 26th January 2022 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 6.8 PART A (1) D) (II) Activity Description: Not Supplied Primary Activity: Y	A16NW (N)	940	2	338345 349671
27	**Integrated Pollution Prevention And Control** Name: Polkacrest Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcaste) Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: VP3739XC Original Permit Ref: Ap3538sm Effective Date: 21st January 2008 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A16NE (NE)	991	2	338544 349693
28	**Local Authority Integrated Pollution Prevention And Control** Name: Lloyds Animal Feeds (Western) Ltd Location: Bridge Road North, Wrexham Industrial Estate, Wrexham, Ll13 9ps Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/26(1)V2 Dated: Not Supplied Process Type: Production and Processing of Metals Description: 6/26 **Status: Permit Issued** Positional Accuracy: Manually positioned to the address or location	A10SE (W)	622	4	337268 348641
29	**Local Authority Integrated Pollution Prevention And Control** Name: Animal Waste Services Ltd Location: Tyddyn Daniel, Bedwell Road, Marchwiel, Wrexham, Ll13 0ts Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/07/AWS Dated: Not Supplied Process Type: Waste Management Description: Incinerator **Status: Permit Issued** Positional Accuracy: Manually positioned to the address or location	A2NE (SW)	640	4	337371 347795
30	**Local Authority Pollution Prevention and Controls** Name: Wales & West Utilities Location: Maelor Office, Marchwiel, Wrexham, Ll13 0uw Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Dcl/01/00 Dated: 20th April 1998 Process Type: Local Authority Air Pollution Control Description: PG1/15 Odourising natural gas & liquified petroleum gas **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A7SE (SE)	233	4	338109 348133

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Local Authority Pollution Prevention and Controls** Name: Tetra Pak (Wrexham) Limited Location: Bedwell Road, Cross Lanes, WREXHAM, Clwyd, LL13 0UT Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG6-17-TP(V3) Dated: 13th January 1994 Process Type: Local Authority Air Pollution Control Description: PG6/17 Printing of flexible packaging **Status:** **Authorised** Positional Accuracy: Manually positioned to the address or location	A6NE (W)	381	4	337400 348300
32	**Local Authority Pollution Prevention and Controls** Name: Animal Waste Services Ltd Location: Tyddyn Daniel, Marchwiel, WREXHAM, Clwyd, LL13 0TS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/07/AWS Dated: 3rd October 1996 Process Type: Local Authority Air Pollution Control Description: PG5/3 Animal carcase incineration processes under 1 tonne an hour **Status:** **Application exempt from APC** Positional Accuracy: Automatically positioned to the address	A2NE (SW)	640	4	337372 347796
33	**Local Authority Pollution Prevention and Controls** Name: R C Motors Wrexham Ltd Location: Redwither Road Garage, Wrexham Industrial Estate, Ll13 9rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1RCM Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A16NE (NE)	841	4	338512 349547
34	**Local Authority Pollution Prevention and Controls** Name: Deeside Aluminium Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9SQ Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: AE8267 Dated: 23rd March 1992 Process Type: Application under SI 318, 1989 The Control of Industrial Air Pollution (Registration of Works) Regulations 1989 Description: Processes registered under S. 9 of the Alkali Act 1906 and S. 5 of the Health & Safety at Work Act 1974 **Status:** **Authorised** Positional Accuracy: Automatically positioned to the address	A15SW (N)	858	4	337619 349268
35	**Local Authority Pollution Prevention and Controls** Name: Williams Service & Steve Williams Transport Location: Unit 11 Bridge Way Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/WST Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A15SW (N)	890	4	337701 349392
36	**Local Authority Pollution Prevention and Controls** Name: Lloyds Animal Feeds (Western) Ltd Location: Bridge Road North, Wrexham Industrial Estate, Wrexham, Ll13 9ps Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/26(1)V2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/28 Rubber processes **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A16NW (N)	918	4	338320 349650
37	**Local Authority Pollution Prevention and Control Enforcements** Location: Tyddyn Daniel, Bedwell Road, Marchwiel, Wrexham, Ll13 0ts Type: Air Pollution Control Enforcement Notice Reference: WCBC/IPPC/07/AWS Date Issued: 26th March 2007 Enforcement Date: Not Supplied Details: Not Supplied Positional Accuracy: Manually positioned to the address or location	A2NE (SW)	640	4	337371 347795
	Nearest Surface Water Feature	A7NE (NE)	0	-	337934 348435

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Parkey Lodge Farm, Pickhill, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Pond; Natural Occurrence Incident Date: 22nd August 1997 Incident Reference: 33287 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	A8NE (E)	150	3	338550 348200
39	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Redwither, Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 21st June 1996 Incident Reference: 28800 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	A12NE (NE)	363	3	338500 349050
40	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Not Supplied Incident Date: 14th May 1996 Incident Reference: 28418 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	A3NE (S)	477	3	337900 347800
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Tetra, Pac Factory Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 6th June 1996 Incident Reference: 28661 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	A6NE (W)	481	3	337300 348300
41	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Tetrapak Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Mechanical Failure Incident Date: 28th August 1995 Incident Reference: 25516 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	484	3	337300 348345
41	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Tetrapak Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Mechanical Failure Incident Date: 27th August 1995 Incident Reference: 25515 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	485	3	337300 348350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Grounds Of Tetra Pak, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blockage; Afon Clywedog Incident Date: 25th June 1998 Incident Reference: 36160 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	531	3	337250 348300
42	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Bedwell Road Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 26th February 1996 Incident Reference: 27898 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	A6SE (SW)	517	3	337300 348100
43	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Blocked Sewer Incident Date: 10th October 1994 Incident Reference: 21384 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	542	3	338600 349200
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Upstream Of, Teif Terrace Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Blocked Sewer Incident Date: 17th June 1996 Incident Reference: 28685 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	553	3	337250 348445
44	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Other Location: Up Stream Of, Tetrapack Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Blocked Sewer Incident Date: 17th June 1996 Incident Reference: 28685 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	555	3	337250 348450
45	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Other Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Mechanical Failure Incident Date: 25th August 1994 Incident Reference: 20996 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Bypass Of Treatment Facilities Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NE)	593	3	338800 349100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Fairfield Meat Factory Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 4th April 1996 Incident Reference: 27804 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	A3NE (S)	598	3	338000 347700
47	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adj To Bluestone Chemicals, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Afon Clywedog; Leakage Incident Date: 16th July 1997 Incident Reference: 33040 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A16SW (N)	617	3	338300 349350
48	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Bedwell Road Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Poor Management Incident Date: 21st April 1997 Incident Reference: 31934 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	652	3	337300 347850
49	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Management Control Incident Date: 7th June 1996 Incident Reference: 28624 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	A16SW (N)	675	3	338200 349400
50	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Weather Incident Date: 1st May 1996 Incident Reference: 28101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	690	3	338500 349395
50	**Pollution Incidents to Controlled Waters** Property Type: Cess Pit Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Weather Incident Date: 1st May 1996 Incident Reference: 28101 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	A16SE (NE)	695	3	338500 349400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Pollution Incidents to Controlled Waters** Property Type: Process Location: Bestoy Unit, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 15th March 1995 Incident Reference: 22827 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	A16SW (N)	724	3	338200 349450
51	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Treated Water Distribution System Location: 50 Metres Down Stream Of, Redwither Pub Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 13th December 1995 Incident Reference: 26907 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A16SW (N)	774	3	338200 349500
52	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Surface Runoff Location: Clywedog, Road Wrexham Industrial Estate, Marchwi Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 3rd November 1995 Incident Reference: 26678 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	A10SE (NW)	742	3	337200 348750
53	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: By Redwither Inn, Wrexham Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Redwither Brook Incident Date: 11th September 1997 Incident Reference: 33595 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	A15SE (N)	807	3	338050 349500
54	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Marchwiel At, Side Of Layby, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Accidental Spillage/Leakage Incident Date: 20th September 1996 Incident Reference: 29996 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	833	3	337000 348000
55	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Other Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Inadequate Design/Capacity Incident Date: 14th August 1991 Incident Reference: 3123 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A3SW (S)	877	3	337700 347400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 29th August 1991 Incident Reference: 3198 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A15SW (N)	915	3	337800 349500
57	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Continental Can, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 6th December 1991 Incident Reference: 1790 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A15NE (N)	917	3	338000 349600
58	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Bridge Road, Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Not Supplied Incident Date: 7th November 1995 Incident Reference: 26679 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	A3SW (SW)	924	3	337500 347400
59	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Surface Runoff Location: Trib From N E Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Not Supplied Incident Date: 15th December 1995 Incident Reference: 26908 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A16NW (N)	967	3	338300 349700
59	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Oldacres Wrexham, Industrial Estate, Marchwie Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 28th July 1995 Incident Reference: 25692 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	A16NW (N)	969	3	338350 349700
60	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 16th September 1994 Incident Reference: 21092 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	A15SW (N)	967	3	337650 349450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Redwither Brook Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 15th December 1995 Incident Reference: 26909 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	A16NW (N)	972	3	338200 349700
61	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Wxm Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 24th January 1996 Incident Reference: 27506 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	A16NW (N)	979	3	338150 349700
62	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Wrexham Industrial Estate, Dolphin Cottage Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 24th January 1996 Incident Reference: 27506 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	A16NW (N)	974	3	338150 349695
62	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Redwither Brook Incident Date: 17th September 1997 Incident Reference: 33591 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	A16NW (N)	1000	3	338140 349720
63	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Engineering Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 22nd February 1995 Incident Reference: 22665 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (N)	996	3	337800 349595
63	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Down Stream Of Stadex Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 15th March 1995 Incident Reference: 23047 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	A15NW (N)	1000	3	337800 349600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	**Prosecutions Relating to Authorised Processes** Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Prosecution Text: Press Release HM389, Failure to comply with an improvement notice to prevent emissions of smoke from the factory vents. Prosecution Act: HSWA74 Hearing Date: 15th March 1996 Verdict: Guilty Fine: 10000 Costs: 9882 Positional Accuracy: Manually positioned to the road within the address or location	A15SW (N)	762	3	337692 349205
65	**Registered Radioactive Substances** Name: National Grid Transco Ltd Location: North East Wales District Office, Marchwiel, WREXHAM, Clwyd, LL13 0UW Authority: Natural Resources Wales Permit Reference: AY8590 Dated: 15th July 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Initial variation to an authorisation under RSA **Status: Authorisation either revoked or cancelled** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	233	2	338109 348133
65	**Registered Radioactive Substances** Name: National Grid Transco Ltd Location: North East Wales District Office, Marchwiel, WREXHAM, Clwyd, LL13 0UW Authority: Natural Resources Wales Permit Reference: AW9498 Dated: 13th March 1997 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: Automatically positioned to the address	A7SE (SE)	233	2	338109 348133
66	**Registered Radioactive Substances** Name: Eurocare Environmental Services Ltd (Dissolved) Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Bi3024 Dated: 21st June 2000 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	A16NE (NE)	979	2	338531 349684
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: Conf.Redwither Bk. - O/F Five Fords Stw Estimated Distance (km): 4.8 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A7NE (E)	0	3	337955 348425
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: Conf.Dee - Conf.Red'R Bk. Estimated Distance (km): 4 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	(NE)	465	3	338831 348819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**River Quality Biology Sampling Points** Name: Clywedog (Dee) Reach: Confluence River Dee To Confluence Red'R Brook Estimated Distance: 4.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A12NE (NE)	535	3	338800 349000
68	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 28th July 2004 Incident Reference: 254208 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A7NW (W)	239	2	337560 348380
69	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 20th May 2004 Incident Reference: 238220 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A6NE (W)	404	2	337410 348450
70	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 23rd May 2020 Incident Reference: 2003572 Water Impact: Category 2 - Significant Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Firefighting Run-Off	A16SW (NE)	571	2	338347 349301
70	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 25th May 2007 Incident Reference: 497621 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Firefighting Run-Off	A16SW (NE)	572	2	338338 349303
71	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 10th December 2010 Incident Reference: 843517 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Other Agricultural Material Or Waste	A6NE (W)	634	2	337152 348369

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 19th July 2006 Incident Reference: 418682 Water Impact: Category 1 - Major Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A16SW (N)	646	2	338242 349376
73	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 26th June 2009 Incident Reference: 691429 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Vegetable Washings	A16NW (N)	791	2	338152 349510
74	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 14th July 2002 Incident Reference: 91450 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 100m Pollutant: Atmospheric Pollutants and Effects: Smoke	A16SE (NE)	793	2	338500 349500
75	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	234	2	338190 348940
75	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	234	3	338190 348940
75	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 150mm Diameter Borehole Aw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (NE)	234	3	338190 348940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**Water Abstractions** Operator: Cott Beverages Limited Licence Number: Wa/067/0007/006 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	234	2	338190 348940
75	**Water Abstractions** Operator: Cott Beverages Limited Licence Number: Wa/067/0007/006 Permit Version: Not Supplied Location: Spectrum Business Park, Wrexham, Calypso Soft Drinks Ltd, Unit D-F, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Wrexham, Ll13 9qa Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	234	2	338190 348940
76	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: 144m Deep, 150mm Dia., Ob1 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	362	2	338240 349090
76	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144m Deep, 150mm Dia., Ob1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	362	3	338240 349090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144m Deep, 150mm Dia., Ob1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 150mm Diameter Ob1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (NE)	362	3	338240 349090
77	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: Spectrum Business Park Borehole Aw2 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	450	2	338350 349180
77	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144 M Deep, 200mm Dia Bh Aw2 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	462	3	338360 349190
77	**Water Abstractions** Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144 M Deep, 200mm Dia Bh Aw2 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 200mm Diameter Borehole Aw2 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (NE)	462	3	338360 349190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**Water Abstractions** Operator: Elliot (Agriculture) Ltd Licence Number: Wa/067/0007/0019 Permit Version: Not Supplied Location: Black Rock Farm, Bedwell Road, Cross Lanes, Ll13 0tr Authority: Natural Resources Wales Abstraction: General Agriculture: Heat Pump Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (SW)	979	2	337452 347358
	Water Abstractions Operator: Maelor Foods Limited Licence Number: Wa/067/0007/0015 Permit Version: Not Supplied Location: Maelor Poultry, Pickhill Lane, Cross Lanes, Bangor On Dee, Ll13 0ue Authority: Natural Resources Wales Abstraction: Slaughtering: Process Water Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1530	2	338673 346737
	Water Abstractions Operator: Dairy Crest Dairies Licence Number: 24/67/7/0199 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: River Daily Rate (m3): 8092 Yearly Rate (m3): 1136500 Details: River Dee Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1691	3	338800 346600
	Water Abstractions Operator: Caparo Wire Ltd Licence Number: 24/67/7/0178 Permit Version: 100 Location: Tributary Of Redwither Brook Authority: Natural Resources Wales Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tributary Of Redwither Brook Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1834	2	337810 350500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Caparo Wire Ltd Licence Number: 24/67/7/0178 Permit Version: Not Supplied Location: Abstraction From A Tributary Of The Redwither Brook, Wrexham Ind. Est. Authority: Natural Resources Wales Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1834	2	337810 350500
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0182 Permit Version: 100 Location: River Dee At Twll, Bangor Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Dee At Bangor Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th October 1975 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1897	3	338630 346360
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0005 Permit Version: 100 Location: River Dee At Twll, Bangor Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Dee At Twll; Bangor Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th January 1974 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1902	3	338630 346355
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0221 Permit Version: 2 Location: River Dee At Twll, Bangor Authority: Natural Resources Wales Abstraction: Public Water Supply: Potable Water Supply - Direct 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: 18th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1909	2	338650 346350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0220 Permit Version: 2 Location: River Dee At Twll, Bangor Authority: Natural Resources Wales Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Dee At Sesswick Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1909	2	338650 346350
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0221 Permit Version: 1 Location: River Dee At Twll, Bangor Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct 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: 17th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1909	3	338650 346350
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0220 Permit Version: 1 Location: River Dee At Twll, Bangor Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Dee At Sesswick Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1909	3	338650 346350
	Water Abstractions Operator: Hafren Dyfrdwy Cyfyngedig Licence Number: 24/67/7/0220 Permit Version: Not Supplied Location: Abstraction From The River Dee At Twll Near Bangor-On-Dee - 'Off-Peak', Caia Park, Cross Lanes, Ll13 0tn Authority: Natural Resources Wales Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1909	2	338650 346350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A7NE (NW)	0	2	337927 348421
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A7NE (E)	0	2	338000 348421
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A7NE (S)	0	2	337971 348311
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A7NE (SE)	0	2	338000 348323
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A7NE (NW)	0	2	337927 348421
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NE (NW)	0	2	337927 348421
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A7NE (S)	0	2	337971 348311

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**Source Protection Zones** Name: Not Supplied Source: Natural Resources Wales Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A7NE (NW)	0	2	337927 348421
80	**Source Protection Zones** Name: Not Supplied Source: Natural Resources Wales Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A7NE (NW)	0	2	337927 348421
81	**Source Protection Zones** Name: Not Supplied Source: Natural Resources Wales Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A12NW (NE)	308	2	338208 349046
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (NW)	0	2	337927 348421
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (NW)	0	2	337927 348421
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8SW (SE)	199	2	338250 347970
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (NE)	1	5	338386 348654
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1632.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A7NE (NE)	4	5	337934 348431
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12SW (NE)	4	5	338269 348577
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12SW (NE)	7	5	338236 348605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 2	A12SW (NE)	8	5	338269 348577
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 583.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12SW (NE)	18	5	338160 348616
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 2	A12SW (NE)	37	5	338211 348617
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12SW (NE)	38	5	338215 348608
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12NW (NE)	164	5	338292 348897
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 2	A12NW (NE)	164	5	338292 348897
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (NE)	183	5	338063 348744
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 459.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12NW (NE)	195	5	338299 348932
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	212	5	338366 348032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (NE)	218	5	338597 348734
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (N)	223	5	338040 348784
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (NE)	224	5	338593 348743
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12NE (NE)	225	5	338525 348854
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	226	5	338345 348017
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (N)	226	5	338038 348787
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	232	5	338261 347965
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (NE)	246	5	338575 348813
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NE)	266	5	338574 348853

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 422.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12NE (NE)	269	5	338575 348856
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (SE)	282	5	338557 348007
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 550.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SE (SE)	282	5	338563 348011
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	311	5	338251 347953
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	364	5	338219 347907
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A12NE (NE)	373	5	338557 349028
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 2	A12NE (NE)	373	5	338557 349028
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	404	5	338182 347879
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 698.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	421	5	338172 347864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	421	5	338172 347864
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 809.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A12NE (NE)	436	5	338530 349118
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NW (SE)	480	5	338192 347795
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (W)	531	5	337252 348241
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A4NW (S)	551	5	338217 347714
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (W)	592	5	337202 348410
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A6NE (W)	592	5	337202 348410
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A6NE (W)	599	5	337193 348406
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 255.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A6NE (W)	603	5	337188 348401

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SE (W)	679	5	337182 348609
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11NW (NW)	688	5	337478 348952
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 278.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SE (W)	689	5	337141 348546
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (N)	702	5	338156 349433
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A16SW (N)	704	5	338190 349428
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (N)	715	5	338149 349434
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (N)	717	5	338149 349434
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NE (SW)	719	5	337411 347668
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NE (SW)	727	5	337402 347664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NE (SW)	731	5	337398 347662
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A16SW (N)	737	5	338174 349459
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (N)	737	5	338174 349459
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A16SW (N)	746	5	338165 349466
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (N)	748	5	338169 349469
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	763	5	338721 349385
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 2	A6NW (W)	798	5	336989 348392
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A6NW (W)	799	5	336988 348400
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1127.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Clywedog Catchment Name: Dee Primacy: 1	A6NW (W)	801	5	336988 348400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A2NE (SW)	808	5	337321 347621
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SE (N)	811	5	337978 349477
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SW (S)	817	5	337689 347462
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 223.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SW (S)	820	5	337688 347460
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SW (W)	840	5	337077 348747
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SW (W)	847	5	337075 348756
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A15NE (N)	851	5	338038 349543
147	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	878	5	338135 349595
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	883	5	338135 349600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	886	5	338134 349603
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 204.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Redwither Brook Catchment Name: Dee Primacy: 1	A15NE (N)	889	5	337890 349539
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	893	5	338134 349610
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SE (N)	899	5	337801 349481
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	901	5	337693 349432
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SE (N)	902	5	337805 349487
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	909	5	337110 348903
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	910	5	337075 348863
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	918	5	337053 348848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 74.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	924	5	338125 349640
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A15SW (N)	937	5	337674 349431
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	938	5	337673 349431
161	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16NW (N)	948	5	338170 349672
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SW (S)	951	5	337529 347362
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3SW (S)	952	5	337530 347361
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (NW)	957	5	337521 349318
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	963	5	337575 349381
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	967	5	337552 349355

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	969	5	337574 349380
168	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	970	5	337571 349378
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	971	5	337607 349414
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	971	5	337037 348914
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	971	5	337037 348914
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	972	5	337551 349371
173	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 34.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16NW (N)	975	5	338149 349696
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	977	5	337627 349442
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	978	5	337628 349445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (NW)	987	5	337524 349362
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 111.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	990	5	337429 349306
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	993	5	337429 349306
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	994	5	337426 349304
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 94.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SW (N)	996	5	337611 349454
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	997	5	337379 349276
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	997	5	337379 349276
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 266.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	998	5	337260 349172

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	**Integrated Pollution Control Registered Waste Sites** Name: Sterile Technologies (Newcastle) Ltd Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, WREXHAM, CLWYD, LL13 9RJ Authority: Environment Agency, Welsh Region Permit Reference: Bi1595 Dated: 19th September 2000 Process Type: IPC new application Description: 5.1 A (A) Incineration within the Waste Disposal Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Manually positioned to the road within the address or location	A16NE (NE)	979	3	338531 349684
184	**Integrated Pollution Control Registered Waste Sites** Name: Sterile Technologies (Newcastle) Ltd Location: Wrexham Plant,Marlborough Road,Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Environment Agency, Welsh Region Permit Reference: Bm2349 Dated: 19th May 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 5.1 A (A) Incineration within the Waste Disposal Industry **Status: Revoked - Now IPPC** Positional Accuracy: Manually positioned to the road within the address or location	A16NE (NE)	985	3	338538 349688
185	**Licensed Waste Management Facilities (Locations)** Licence Number: WP3094FB Location: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Alan's Skip Hire (Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Effective** Issued: 3rd October 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	511	2	338386 349236
185	**Licensed Waste Management Facilities (Locations)** Licence Number: WP3094FB Location: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Alan's Skip Hire (Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities **Licence Status: Effective** Issued: 3rd October 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	511	2	338386 349236
186	**Licensed Waste Management Facilities (Locations)** Licence Number: 37211 Location: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Alan's Skip Hire (Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Modified** Issued: 9th March 2000 Last Modified: 15th April 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	674	2	338244 349404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	**Licensed Waste Management Facilities (Locations)** Licence Number: YP3994FY Location: Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Entrec Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Effective** Issued: 2nd December 2020 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	A16SW (N)	715	2	338251 349446
186	**Licensed Waste Management Facilities (Locations)** Licence Number: 37267 Location: Entrec Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Entrec Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Modified** Issued: 8th September 2004 Last Modified: 7th May 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	715	2	338251 349446
187	**Licensed Waste Management Facilities (Locations)** Licence Number: AP3394FT Location: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, Wrexham, LL13 9RD Operator Name: North Western Insulation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Expired** Issued: 19th February 2001 Last Modified: Not Supplied Expires: 1st May 2012 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	717	2	338150 349434
187	**Licensed Waste Management Facilities (Locations)** Licence Number: AP3394FT Location: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, Wrexham, LL13 9RD Operator Name: North Western Insulation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Expired** Issued: 19th February 2001 Last Modified: Not Supplied Expires: 1st May 2012 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	717	2	338150 349434

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	**Licensed Waste Management Facilities (Locations)** Licence Number: 37221 Location: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Operator Name: North Western Insulation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Expired** Issued: 19th February 2001 Last Modified: 17th March 2006 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	717	2	338150 349434
188	**Licensed Waste Management Facilities (Locations)** Licence Number: TP3594FK Location: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Clwyd, Wrexham, LL13 9RD Operator Name: Bluestone Chemicals Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Chemical treatment facility **Licence Status: Expired** Issued: 17th January 1994 Last Modified: Not Supplied Expires: 13th September 1999 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	729	2	338340 349460
188	**Licensed Waste Management Facilities (Locations)** Licence Number: 37094 Location: Bluestone Chemicals, Redwither Rd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Operator Name: Bluestone Chemicals Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Treatment - Chemical **Licence Status: Expired** Issued: 17th January 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SW (N)	729	2	338340 349460
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	337927 348421
189	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8NW (E)	0	11	338339 348295
190	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8NW (SE)	69	11	338281 348207
191	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (NE)	89	11	338481 348667
192	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11SE (N)	192	11	338042 348732
193	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11SE (N)	237	11	337872 348690
194	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7SW (S)	307	11	337761 347968

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (NE)	375	11	338385 349098
196	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (NE)	407	11	338394 349128
197	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NE (N)	450	11	337976 349047
198	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (N)	470	11	337764 348896
199	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NW)	507	11	337687 348893
200	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NW)	548	11	337579 348853
201	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A6SE (SW)	580	11	337347 347905
202	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NW)	589	11	337508 348834
203	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (N)	600	11	337778 349061
204	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NW)	618	11	337467 348827
205	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A6SE (SW)	635	11	337311 347862
206	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A16SE (NE)	636	11	338702 349248
207	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A2NE (SW)	664	11	337396 347745
208	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15SE (N)	666	11	337988 349321
209	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10SE (NW)	689	11	337285 348767
210	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10SE (NW)	716	11	337284 348805
211	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NE (NW)	748	11	337372 348918
212	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A16SE (NE)	750	11	338479 349461
213	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NE (NW)	807	11	337212 348860
214	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A16SE (NE)	809	11	338786 349399
215	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NE (NW)	857	11	337398 349109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NE (NW)	863	11	337313 349029
217	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15SW (NW)	869	11	337528 349221
218	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15SW (N)	873	11	337797 349448
219	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15SW (NW)	892	11	337482 349220
220	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15SW (NW)	893	11	337536 349253
221	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NE (NW)	916	11	337134 348937
222	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A15NW (N)	984	11	337702 349516
223	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A16NW (N)	989	11	338253 349720
224	**Registered Waste Transfer Sites** Licence Holder: Reynolds Services - North Western Insul' Licence Reference: EAWML37221 Site Location: Redwither Road Transfer Station, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Operator Location: Redwither Road Transfer Station, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Site not yet started Dated: 19th February 2001 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Asbestos Maximum Waste Permitted By Licence Prohibited Waste: Liquid Wastes Other Waste / Waste Not Otherwise Specified Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified	A16SW (N)	711	3	338160 349430
225	**Registered Waste Treatment or Disposal Sites** Licence Holder: E Clutton & Sons Licence Reference: L54A Site Location: Maelor Abattoir Tyddyn Daniel, Bedwell Road, Marchwiel, Wrexham, Clwyd Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Incineration Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Site now IPC authorisedAuthorised Dated: 1st July 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Small Pets, Farm Animals & Offal	A6SE (SW)	547	3	337450 347850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	**Registered Waste Treatment or Disposal Sites** Licence Holder: North Western Insulation Licence Reference: L81 Site Location: Wrexham Industrial Estate, Wrexham, Clwyd Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Storage Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Bonded Asbestos Fibrous Asbestos,Chrysotile & Amosite Prohibited Waste: Slurried Or Otherwise Mobile Waste	A16SW (N)	675	3	338200 349400
226	**Registered Waste Treatment or Disposal Sites** Licence Holder: Alpha Environmental Management Ltd Licence Reference: EAWML37211 Site Location: Site 1 Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Operator Location: Singret Cottage, Singret Hill, Llay, WREXHAM, Clwyd, LL12 0NS Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 9th March 2000 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Maximum Waste Permitted By Licence Solid, Dry Non-Haz. Degradable Commercial Waste Solid, Dry Non-Haz. Degradable Household Waste Solid, Dry Non-Haz. Degradable Industrialwaste Solid, Dry Non-Haz. Inert Waste Solid, Dry Non-Haz. Metal Waste With Annual Maximum Prohibited Waste: Liquid Wastes Other Waste/Waste Not Otherwise Specified Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs)	A16SW (N)	683	3	338180 349405
227	**Registered Waste Treatment or Disposal Sites** Licence Holder: Bluestone Chemicals Ltd Licence Reference: NOW-524-L (L76) Site Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd Operator Location: Coniston, Wynnstay Lane, Marford, WREXHAM, Clwyd, LL12 8YA Authority: Environment Agency Wales, North Area Site Category: Transfer - with treatment Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 17th January 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Chromium Hydroxide Filter Cake Maximum Quantity Storage Other Class.Spent Catalysts-Agreed Wra Spent Copper Chromite Catalysts Spent Nickel Catalyst	A16SW (N)	717	3	338300 349450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	**Registered Waste Treatment or Disposal Sites** Licence Holder: Aggregates & Equipment Ltd Licence Reference: L52A Site Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, Ll13 9rj Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Transfer - with Baling(compaction) Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: House, Com + Ind.Waste Metal Paper/Cardboard/Packaging Waste Timber	A16NE (NE)	999	3	338550 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	**Control of Major Accident Hazards Sites (COMAH)** Name: British Gas Location: Mealor Works, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 0UW Reference: Not Supplied Type: Upper Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	233	7	338109 348133
229	**Control of Major Accident Hazards Sites (COMAH)** Name: Flogas Britain Limited Location: Maelor Works, Marchwiel, Wrexham, Clwyd, LL13 0UW Reference: Not Supplied Type: Lower Tier **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	233	7	338109 348133
230	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: British Gas (Wales) PLC Location: Maelor Gas Works, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 0UW **Status: Not Active** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	237	7	338109 348128
231	**Planning Hazardous Substance Consents** Name: British Gas Plc Location: Maelor Gas Works, Marchwiel Authority: Wrexham County Borough Council, Planning Department Application Ref: 6/0002/0934 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 51.4 Application date: 30th November 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A7SE (S)	220	8	338043 348106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A7NE (NW)	0	1	337927 348421
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (NW)	0	1	337927 348421
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (NE)	0	1	338000 348500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (E)	0	1	338320 348551
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	(NE)	517	1	338851 348883
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A7NE (NW)	0	9	337927 348421
	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	A7NE (NW)	0	1	337927 348421
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	0	1	337971 348311
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (NW)	71	1	337879 348502

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8SW (SE)	211	1	338372 348026
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	337879 348502
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SE (S)	177	1	337838 348080
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A8SW (SE)	211	1	338375 348027
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	338068 348372
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (NW)	0	1	337879 348502
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SE (S)	13	1	337838 348080
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	73	1	338083 348620
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8SW (SE)	211	1	338375 348027
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	0	1	338320 348551
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (NE)	58	1	338402 348735
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337925 348425
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337927 348421
	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	A7NE (S)	0	1	337975 348300
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NE (NW)	0	1	337925 348425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A7NE (NW)	0	1	337927 348421
	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	A7NE (S)	0	1	337975 348300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	**Contemporary Trade Directory Entries** Name: Flo Gas Plc Location: Maelor Works, Marchwiel, Wrexham, LL13 0UW Classification: Gas Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	233	-	338109 348133
233	**Contemporary Trade Directory Entries** Name: Mita Logistics Location: Wrexham Industrial Estate, Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A6NE (W)	327	-	337455 348309
233	**Contemporary Trade Directory Entries** Name: Tetra Pak Ltd Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging Materials Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NE (W)	327	-	337455 348309
233	**Contemporary Trade Directory Entries** Name: Tetra-Pak Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NE (W)	327	-	337455 348309
233	**Contemporary Trade Directory Entries** Name: Tetra Pak Ltd Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NE (W)	327	-	337455 348309
234	**Contemporary Trade Directory Entries** Name: Refresco Location: Refresco, Spectrum Business Park, Wrexham, LL13 9QA Classification: Soft Drinks - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (NE)	335	-	338291 349068
235	**Contemporary Trade Directory Entries** Name: Bright Steel Wire Ltd Location: Unit D, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Wire Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (N)	485	-	338195 349206
236	**Contemporary Trade Directory Entries** Name: W & J Tod Ltd Location: Unit R1 Bridge Rd,Wrexham Indust Est, Wrexham, Clwyd, LL13 9PS Classification: Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A11SW (NW)	541	-	337522 348770
237	**Contemporary Trade Directory Entries** Name: Farmers Fresh Wales Location: Maelor Abattoir, Bedwell Road, Cross Lanes, Wrexham, LL13 0TS Classification: Abattoirs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	555	-	337445 347844
237	**Contemporary Trade Directory Entries** Name: Fairfield Meat Company Location: Maelor Abattoir, Bedwell Road, Cross Lanes, Wrexham, LL13 0TS Classification: Abattoirs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	555	-	337445 347844
238	**Contemporary Trade Directory Entries** Name: Secanim Location: Bedwell Road, Cross Lanes, Wrexham, LL13 0TS Classification: Animal By-Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	586	-	337336 347909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
238	**Contemporary Trade Directory Entries** Name: Secanim Ltd Location: BEDWELL ROAD, CROSS LANES, WREXHAM, LL13 0TS Classification: Animal By-Products **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SE (SW)	586	-	337336 347909
239	**Contemporary Trade Directory Entries** Name: Lloyds Warehousing Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9SQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	600	-	337397 348750
240	**Contemporary Trade Directory Entries** Name: Multi Packaging Solutions Location: Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A16SW (N)	609	-	338267 349341
241	**Contemporary Trade Directory Entries** Name: S P I Global Play Ltd Location: Unit C,Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Toys, Games & Sporting Goods - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (N)	622	-	338067 349310
242	**Contemporary Trade Directory Entries** Name: Lloyds Western Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (W)	622	-	337268 348641
243	**Contemporary Trade Directory Entries** Name: Terrier Tools Location: Five Fords Gate,Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Builders' Tools & Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A6NE (W)	630	-	337163 348413
244	**Contemporary Trade Directory Entries** Name: Bostock Air Conditioning Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Air Conditioning Equipment & Systems **Status: Active** Positional Accuracy: Automatically positioned to the address	A16SW (N)	635	-	338193 349359
245	**Contemporary Trade Directory Entries** Name: Mita Logistics Ltd Location: It Room First Floor Tetra Pak, Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0TS Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A2NE (SW)	642	-	337412 347760
246	**Contemporary Trade Directory Entries** Name: Lloyds Warehousing Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	648	-	337383 348801
246	**Contemporary Trade Directory Entries** Name: F Lloyd Penley Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	648	-	337383 348801
247	**Contemporary Trade Directory Entries** Name: Clwyd Precision Engineering & Plastics Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS Classification: Polythene & Plastic Sheeting Supplies **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	656	-	337307 348743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	**Contemporary Trade Directory Entries** Name: Clwyd Plastics Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS Classification: Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	656	-	337307 348743
247	**Contemporary Trade Directory Entries** Name: Clwyd Precision Engineering Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	659	-	337301 348742
248	**Contemporary Trade Directory Entries** Name: Kannon 2000 Location: Spectrum Business Pk, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QA Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15SE (N)	658	-	338026 349332
248	**Contemporary Trade Directory Entries** Name: Genice Foods Ltd Location: Unit B, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	686	-	338014 349357
248	**Contemporary Trade Directory Entries** Name: Hi-Mark Automotive Ltd Location: Unit A, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Plastics - Injection Moulding **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	722	-	337979 349380
249	**Contemporary Trade Directory Entries** Name: Ash Waste Services Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (N)	662	-	338307 349395
249	**Contemporary Trade Directory Entries** Name: Ash Waste Services Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (N)	662	-	338307 349395
250	**Contemporary Trade Directory Entries** Name: H T C Management Services Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Engineering Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	722	-	338110 349430
250	**Contemporary Trade Directory Entries** Name: Johnny'S Garage Ltd Location: WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (N)	722	-	338110 349430
250	**Contemporary Trade Directory Entries** Name: D & G Automotive Ltd Location: WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SE (N)	722	-	338110 349430
251	**Contemporary Trade Directory Entries** Name: Brake Engineering Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Car Component Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	734	-	338413 349458

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
251	**Contemporary Trade Directory Entries** Name: Z F Services Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Brake & Clutch Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	734	-	338413 349458
251	**Contemporary Trade Directory Entries** Name: Brake Engineering Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16SW (NE)	734	-	338413 349458
251	**Contemporary Trade Directory Entries** Name: A C F Joinery Location: Redwither Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RD Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A16SW (NE)	776	-	338425 349498
252	**Contemporary Trade Directory Entries** Name: Cool Point Location: Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9PS Classification: Refrigeration Equipment - Commercial **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A15SW (N)	746	-	337756 349246
252	**Contemporary Trade Directory Entries** Name: Ocs Support Services Ltd Location: Bridge Rd,Wrexham Indust Est, Wrexham, Clwyd, LL13 9PS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A15SW (N)	746	-	337750 349240
253	**Contemporary Trade Directory Entries** Name: Entrec Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Scrap Metal Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A16NW (N)	781	-	338289 349513
254	**Contemporary Trade Directory Entries** Name: Maly Ltd Location: The Bridgeway Centre,Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QS Classification: Glass Fibre Moulding, Materials & Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	800	-	337773 349336
254	**Contemporary Trade Directory Entries** Name: Hannah Services Location: Unit 1, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	801	-	337777 349340
254	**Contemporary Trade Directory Entries** Name: M G Engineering Ltd Location: Unit 3, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	814	-	337734 349319
254	**Contemporary Trade Directory Entries** Name: Williams Services Location: Unit 3, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	814	-	337734 349319
254	**Contemporary Trade Directory Entries** Name: Colour Definitions Location: Unit 13, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Powder Coatings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	848	-	337728 349360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
254	**Contemporary Trade Directory Entries** Name: R J Scott & Son Ltd Location: Unit 13, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	851	-	337724 349360
255	**Contemporary Trade Directory Entries** Name: Nutrafeed Location: Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9PS Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A15SE (N)	813	-	337935 349460
256	**Contemporary Trade Directory Entries** Name: Nutrafeed Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Reclaiming - Waste Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16NW (N)	815	-	338185 349539
257	**Contemporary Trade Directory Entries** Name: S M Shepherd C V R Location: Unit R2, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Active** Positional Accuracy: Automatically positioned to the address	A16NW (N)	819	-	338374 349548
258	**Contemporary Trade Directory Entries** Name: Bridgeway Garage Location: Unit 5, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	831	-	337698 349308
258	**Contemporary Trade Directory Entries** Name: Dragon Pallets Ltd Location: Unit 6, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Pallets, Crates & Packing Cases **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	843	-	337684 349311
258	**Contemporary Trade Directory Entries** Name: Motofix Location: Unit 7, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Motor Cycle Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	848	-	337682 349315
258	**Contemporary Trade Directory Entries** Name: B J M Euromac Location: Unit 9, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	856	-	337676 349322
259	**Contemporary Trade Directory Entries** Name: Technical Engineering Polymers Ltd Location: Unit 15, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Rubber & Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	836	-	337761 349372
259	**Contemporary Trade Directory Entries** Name: Associated Toolmakers Ltd Location: Unit 16, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Tool Design, Manufacturers & Makers **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	840	-	337766 349382

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
260	**Contemporary Trade Directory Entries** Name: Bonaprene Fluidpower Location: Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Hydraulic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	838	-	337052 348702
260	**Contemporary Trade Directory Entries** Name: Bonaprene Products Ltd Location: Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	838	-	337052 348702
260	**Contemporary Trade Directory Entries** Name: Polybush Location: Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Plastics - Injection Moulding **Status: Active** Positional Accuracy: Manually positioned to the address or location	A10SW (W)	838	-	337052 348702
260	**Contemporary Trade Directory Entries** Name: Bonaprene Products Ltd Location: Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Hydraulic Equipment & Accessories - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	838	-	337052 348702
260	**Contemporary Trade Directory Entries** Name: Bonaprene Products Ltd Location: Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Hydraulic Equipment & Accessories - Sales & Service **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SW (W)	838	-	337052 348702
261	**Contemporary Trade Directory Entries** Name: R C Motors Wrexham Ltd Location: Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Classification: Car Breakdown & Recovery Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A16NE (NE)	841	-	338512 349547
261	**Contemporary Trade Directory Entries** Name: Automation Support Services Location: Dunster rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RE Classification: Automation Systems & Equipment **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A16NE (NE)	881	-	338495 349591
262	**Contemporary Trade Directory Entries** Name: Gallion Ltd Location: Unit 30, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	846	-	337864 349458
262	**Contemporary Trade Directory Entries** Name: Try Thai Shop Location: Unit 27-28, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A15SE (N)	850	-	337889 349478
262	**Contemporary Trade Directory Entries** Name: Intawood Location: Unit 21, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	854	-	337856 349463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
262	**Contemporary Trade Directory Entries** Name: Help Save Our Planet Recycled Goods Location: Unit 25,The Bridgeway Centre,Coed Aben Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QS Classification: Recycling Centres **Status:** **Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15SE (N)	872	-	337860 349486
262	**Contemporary Trade Directory Entries** Name: Rascals Petfood Centre Location: Unit 24, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Pet Foods & Animal Feeds **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	879	-	337867 349498
263	**Contemporary Trade Directory Entries** Name: Williams Location: Dunster Road, Wrexham Industrial Estate, Wrexham, LL13 9RE Classification: Vehicle Inspection Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16NW (NE)	848	-	338426 349571
263	**Contemporary Trade Directory Entries** Name: Barrons Location: Dunster Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RE Classification: Caravan Dealers & Manufacturers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16NW (NE)	851	-	338424 349574
264	**Contemporary Trade Directory Entries** Name: Tritech Location: BRIDGE ROAD FACTORY, BRIDGE ROAD NORTH, WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9PS Classification: Die-Casting Equipment & Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A16NW (N)	855	-	338234 349586
264	**Contemporary Trade Directory Entries** Name: Tritech Group Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Precision Engineers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A16NW (N)	856	-	338242 349587
265	**Contemporary Trade Directory Entries** Name: Hydro Location: Bridge Road, Wrexham, LL13 9PS Classification: Aluminium Fabricators **Status:** **Active** Positional Accuracy: Manually positioned within the geographical locality	A15SW (N)	858	-	337619 349268
266	**Contemporary Trade Directory Entries** Name: Auto Rallye Prep Location: Unit 20, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Car Engine Tuning & Diagnostic Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SE (N)	879	-	337812 349465
267	**Contemporary Trade Directory Entries** Name: Riva Location: Unit 11, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	884	-	337700 349384
267	**Contemporary Trade Directory Entries** Name: Williams Services Location: Unit 11, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Classification: Garage Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	884	-	337701 349383
267	**Contemporary Trade Directory Entries** Name: Silverlining Workshops Location: Unit 12, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Cabinet Makers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	893	-	337731 349423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
268	**Contemporary Trade Directory Entries** Name: J B Fabrication (Wrexham) Ltd Location: Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16NE (NE)	903	-	338746 349531
269	**Contemporary Trade Directory Entries** Name: Sita Uk Location: Marlborough Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Classification: Medical Waste Disposal **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A16NE (NE)	908	-	338481 349622
270	**Contemporary Trade Directory Entries** Name: Apex Auto Centre Location: Unit 2, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	922	-	337030 348824
270	**Contemporary Trade Directory Entries** Name: Riverside Office Furniture Location: Unit 3, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	931	-	337016 348820
270	**Contemporary Trade Directory Entries** Name: Britewater Ltd Location: Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Ventilators & Ventilation Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	932	-	337025 348835
270	**Contemporary Trade Directory Entries** Name: W R Refrigeration Ltd Location: Unit 3, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Refrigeration Equipment - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	934	-	337013 348820
270	**Contemporary Trade Directory Entries** Name: Signature Kitchen Location: Unit 3, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Kitchen Furniture Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A10SW (NW)	934	-	337013 348820
270	**Contemporary Trade Directory Entries** Name: R G Engineering Services Location: Unit 4, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	941	-	337002 348816
270	**Contemporary Trade Directory Entries** Name: Wilsons Accident Repair Centre Ltd Location: Unit 7, Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	946	-	337003 348828
271	**Contemporary Trade Directory Entries** Name: B D Automotive Location: Unit 101, Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NE (N)	934	-	337813 349531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
272	**Contemporary Trade Directory Entries** Name: B D Performance Location: Unit 102, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	940	-	337761 349504
273	**Contemporary Trade Directory Entries** Name: D H D Location: Unit 107, Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH Classification: Machine Shops **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	947	-	337679 349449
273	**Contemporary Trade Directory Entries** Name: G Evans Holding Co Ltd Location: Unit 107, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	947	-	337680 349449
273	**Contemporary Trade Directory Entries** Name: Dhd Part Of G Evans Holding Co Ltd Location: Unit 107, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Engineering Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	947	-	337680 349449
274	**Contemporary Trade Directory Entries** Name: Rawson Digital Location: UNIT 4 ROOM 1, BRIDGE BUSINESS CENTRE, ASH ROAD SOUTH, WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9UG Classification: Copying & Duplicating Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A16NW (N)	982	-	338234 349713
274	**Contemporary Trade Directory Entries** Name: Duct Hygiene Location: Unit 4 Office 3, Bridge Business Centre, Ash Road South, Wrexham, LL13 9UG Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A16NW (N)	982	-	338234 349713
275	**Contemporary Trade Directory Entries** Name: Barlow World Handling Ltd Location: Unit 103-104, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Materials Handling Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	990	-	337704 349525
275	**Contemporary Trade Directory Entries** Name: A P T Coatings Ltd Location: Unit 106, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Paint Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	991	-	337690 349515
275	**Contemporary Trade Directory Entries** Name: Diamond Domestics Location: Unit 104, Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	994	-	337701 349527
276	**Points of Interest - Commercial Services** Name: F Lloyd (Penley) Ltd Location: Five Fords Cottage Cefn Road, Abenbury, Wrexham, LL13 0PA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (W)	597	10	337191 348374
277	**Points of Interest - Commercial Services** Name: Ash Waste Services Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A16SW (N)	661	10	338307 349394

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
277	**Points of Interest - Commercial Services** Name: Ash Waste Services Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A16SW (N)	662	10	338307 349395
278	**Points of Interest - Commercial Services** Name: North Western Insulations Ltd Location: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A16SW (N)	687	10	338155 349404
278	**Points of Interest - Commercial Services** Name: Johnny's Garage Ltd Location: Unit 2a Redwither Works, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (N)	722	10	338110 349430
278	**Points of Interest - Commercial Services** Name: D & G Automotive Ltd Location: Unit 1 Redwither Works, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SE (N)	722	10	338110 349430
279	**Points of Interest - Commercial Services** Name: Entrec Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A16NW (N)	781	10	338288 349513
280	**Points of Interest - Commercial Services** Name: Nutrafeed Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A16NW (N)	815	10	338185 349539
281	**Points of Interest - Commercial Services** Name: Bridgeway Garage Location: Unit 5 The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (N)	831	10	337697 349307
281	**Points of Interest - Commercial Services** Name: Motofix Motorcycle Services Location: Unit 7 The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (N)	848	10	337682 349315
281	**Points of Interest - Commercial Services** Name: R J Scott & Son Ltd Location: Unit 13 The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (N)	851	10	337723 349360
281	**Points of Interest - Commercial Services** Name: Hydro Location: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9PS Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A15SW (N)	857	10	337619 349267
281	**Points of Interest - Commercial Services** Name: Stephen Williams Transport Ltd Location: Unit 11 The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A15SW (N)	884	10	337700 349384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
281	**Points of Interest - Commercial Services** Name: Williams Services Location: Rear of Unit 11 The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15SW (N)	884	10	337700 349383
282	**Points of Interest - Commercial Services** Name: S M Shepherd C V R Location: Unit 1 and 2, Dunster Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16NE (NE)	861	10	338492 349572
283	**Points of Interest - Commercial Services** Name: Apex Auto Centre Location: Unit 2 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10SW (NW)	922	10	337029 348823
283	**Points of Interest - Commercial Services** Name: Apex Auto Centre Location: Unit 2 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10SW (NW)	926	10	337026 348825
283	**Points of Interest - Commercial Services** Name: Wilsons Location: Unit 7 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (NW)	946	10	337003 348828
283	**Points of Interest - Commercial Services** Name: Wilsons Accident Repair Centre Ltd Location: Unit 7 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A10NW (NW)	946	10	337003 348828
284	**Points of Interest - Commercial Services** Name: B D Automotive Location: Unit 101, Coed Aben Road, Wrexham Industrial Estate, Wrexham, LL13 9UH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NE (N)	938	10	337815 349536
285	**Points of Interest - Manufacturing and Production** Name: Williams Farm - Solar Photovoltaics (BEIS) Location: Williams Farm, Maelor Gas Works, Marchwiel, Wrexham, LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A7NE (SE)	47	10	338006 348290
285	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	116	10	338055 348238
286	**Points of Interest - Manufacturing and Production** Name: Solar Panels Location: LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8NW (E)	53	10	338285 348291
287	**Points of Interest - Manufacturing and Production** Name: Pickhill Solar Farm Location: LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8NW (E)	54	10	338162 348399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	**Points of Interest - Manufacturing and Production** Name: Solar Panels Location: LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	122	10	337746 348164
289	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	203	10	337987 348105
289	**Points of Interest - Manufacturing and Production** Name: Works Location: LL13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	203	10	337978 348103
290	**Points of Interest - Manufacturing and Production** Name: Tanks Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (W)	294	10	337487 348279
291	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (S)	315	10	337956 347981
291	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (S)	324	10	337961 347973
291	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (S)	331	10	337969 347968
291	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SE (S)	333	10	337977 347968
291	**Points of Interest - Manufacturing and Production** Name: Tanks Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	338	10	337952 347956
292	**Points of Interest - Manufacturing and Production** Name: Land NW of Pickhill Bridge Farm - Solar Photovoltaics (BEIS) Location: Pickhill Bridge Farm, Holt Road, Cross Lanes, Wrexham, LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A12SE (E)	315	10	338740 348686
293	**Points of Interest - Manufacturing and Production** Name: G N Jones Location: Parkey Farm, Cross Lanes, Wrexham, LL13 0UA Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A7SE (S)	478	10	338023 347831
294	**Points of Interest - Manufacturing and Production** Name: Spectrum Industrial Estate Location: LL13 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A15SE (N)	538	10	338056 349213

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
295	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A6SE (SW)	553	10	337377 347912
295	**Points of Interest - Manufacturing and Production** Name: Tanks Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	553	10	337372 347917
295	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A6SE (SW)	556	10	337375 347910
296	**Points of Interest - Manufacturing and Production** Name: Wrexham Industrial Estate Location: LL13 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A11SW (NW)	567	10	337528 348824
297	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A16SW (NE)	692	10	338411 349415
297	**Points of Interest - Manufacturing and Production** Name: Works Location: LL13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A16SW (NE)	734	10	338453 349450
298	**Points of Interest - Manufacturing and Production** Name: Power Station Location: LL13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A16NE (NE)	856	10	338678 349510
299	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A16NW (N)	942	10	338403 349669
300	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A15NE (N)	945	10	337992 349627
301	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	593	10	337275 347980
301	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	610	10	337257 347977
301	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	619	10	337248 347974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	659	10	337208 347965
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	683	10	337182 347961
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	709	10	337156 347955
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	723	10	337142 347952
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	733	10	337133 347948
302	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	746	10	337170 347862
303	**Points of Interest - Public Infrastructure** Name: Ash Waste Services Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A16SW (N)	662	10	338307 349395
304	**Points of Interest - Public Infrastructure** Name: Waste Processing Location: LL13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A16SW (N)	684	10	338285 349416
304	**Points of Interest - Public Infrastructure** Name: Entrec Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A16NW (N)	781	10	338289 349513
304	**Points of Interest - Public Infrastructure** Name: Entrec Location: Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A16NW (N)	781	10	338289 349513
305	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6NW (W)	817	10	336971 348180
306	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A2NE (SW)	838	10	337130 347762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
307	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6NW (W)	895	10	336886 348308
307	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6NW (W)	902	10	336879 348308
308	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	908	10	336970 347881
309	**Points of Interest - Public Infrastructure** Name: Water Clean Ltd Location: Unit 4, Marlborough Road, Wrexham, LL13 9RJ Category: Water Class Code: Rivers and Canal Organisations and Infrastructure Positional Accuracy: Positioned to address or location	A16NE (NE)	924	10	338496 349635
310	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SW (W)	946	10	336878 348008
311	**Points of Interest - Public Infrastructure** Name: Sluice Location: LL13 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A2NW (SW)	998	10	336986 347687
312	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Maes Brenin), LL13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10NE (NW)	871	10	337278 349000
313	**Gas Pipelines** Name: SHOCKLACH - MAELOR Nat Grid: Owned By National Grid Diameter (mm): 450 Building Proximity Distance (m): Not Supplied Status: Active Pipe Length (m): 6406.96 Pipe Number: Not Supplied	A8SW (SE)	104	11	338323 348148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
314	**Ancient Woodland** Name: Not Supplied Reference: 33342 Area(m²): 3117.23 Type: Ancient and Semi-Natural Woodland	A8SW (SE)	215	2	338422 348029
315	**Ancient Woodland** Name: Not Supplied Reference: 33343 Area(m²): 13754.76 Type: Ancient and Semi-Natural Woodland	A8SE (SE)	311	2	338664 348074
316	**Ancient Woodland** Name: Not Supplied Reference: 30644 Area(m²): 4673.51 Type: Ancient and Semi-Natural Woodland	A8SW (SE)	382	2	338179 347878
317	**Ancient Woodland** Name: Not Supplied Reference: 30643 Area(m²): 6475.94 Type: Ancient and Semi-Natural Woodland	A3NE (S)	537	2	338047 347776
318	**Ancient Woodland** Name: Not Supplied Reference: 33344 Area(m²): 4355.22 Type: Ancient and Semi-Natural Woodland	(E)	615	2	339092 348212
319	**Ancient Woodland** Name: Not Supplied Reference: 37158 Area(m²): 2562.42 Type: Restored Ancient Woodland Site	A3NE (S)	707	2	337857 347564
320	**Ancient Woodland** Name: Not Supplied Reference: 33412 Area(m²): 4211.83 Type: Ancient and Semi-Natural Woodland	A14SE (NW)	966	2	337421 349267

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

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Natural Resources Wales Environment Agency - Head Office	 July 2022 September 2022	 Annual Rolling Update Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	 September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	 September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	 November 2019	 Quarterly
Flood Water Storage Areas Natural Resources Wales	 August 2019	 Quarterly
Flood Defences Natural Resources Wales	 November 2019	 Quarterly
OS Water Network Lines Ordnance Survey	 October 2023	 Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	 May 2018	 Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	 May 2018	 Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	 May 2018	 Annually
Surface Water Suitability Natural Resources Wales	 February 2016	 Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	 May 2013	 As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - North Area Natural Resources Wales	January 2023 October 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - North Area	August 2023 July 2021	Quarterly Quarterly
Local Authority Landfill Coverage Wrexham County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Wrexham County Borough Council	October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - North Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	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 Wrexham County Borough Council - Planning Department	February 2016	Variable
Planning Hazardous Substance Consents Wrexham County Borough Council - Planning Department	February 2016	Variable

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	September 2023	Quarterly
Points of Interest - Education and Health PointX	September 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2023	Quarterly
Points of Interest - Public Infrastructure PointX	September 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2023	Bi-Annually
Areas of Adopted Green Belt Wrexham County Borough Council	August 2023	Quarterly
Areas of Unadopted Green Belt Wrexham County Borough Council	August 2023	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	November 2023	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 Wrexham County Borough Council	August 2023	Bi-Annually
Marine Nature Reserves Natural Resources Wales	October 2023	Bi-Annually
National Nature Reserves Natural Resources Wales	September 2023	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural Resources Wales	October 2023	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	October 2023	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2023	Bi-Annually
Special Protection Areas Natural Resources Wales	October 2023	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	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Wrexham County Borough Council - Environmental Health Department** Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Wrexham County Borough Council** Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
7	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	**Wrexham County Borough Council - Planning Department** Guildhall, Wrexham, LL11 1AY	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
9	**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
10	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.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** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	KNSF	Kinnerton Sandstone Formation	Sandstone	Not Supplied - Early Triassic
	SAL	Salop Formation	Mudstone, Sandstone and Conglomerate	Not Supplied - Westphalian
		Faults		

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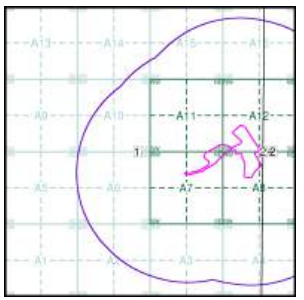
Geology 1:50,000 Maps

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 ID:**	**2**
Map Sheet No:	**121**	**Map Sheet No:**	**122**
Map Name:	**Wrexham**	**Map Name:**	**Nantwich**
Map Date:	**1993**	**Map Date:**	**1967**
Bedrock Geology:	**Available**	**Bedrock Geology:**	**Available**
Superficial Geology:	**Available**	**Superficial Geology:**	**Available**
Artificial Geology:	**Available**	**Artificial Geology:**	**Not Available**
Faults:	**Not Supplied**	**Faults:**	**Not Supplied**
Landslip:	**Available**	**Landslip:**	**Available**
Rock Segments:	**Not Supplied**	**Rock Segments:**	**Not Supplied**

Geology 1:50,000 Maps - Slice A

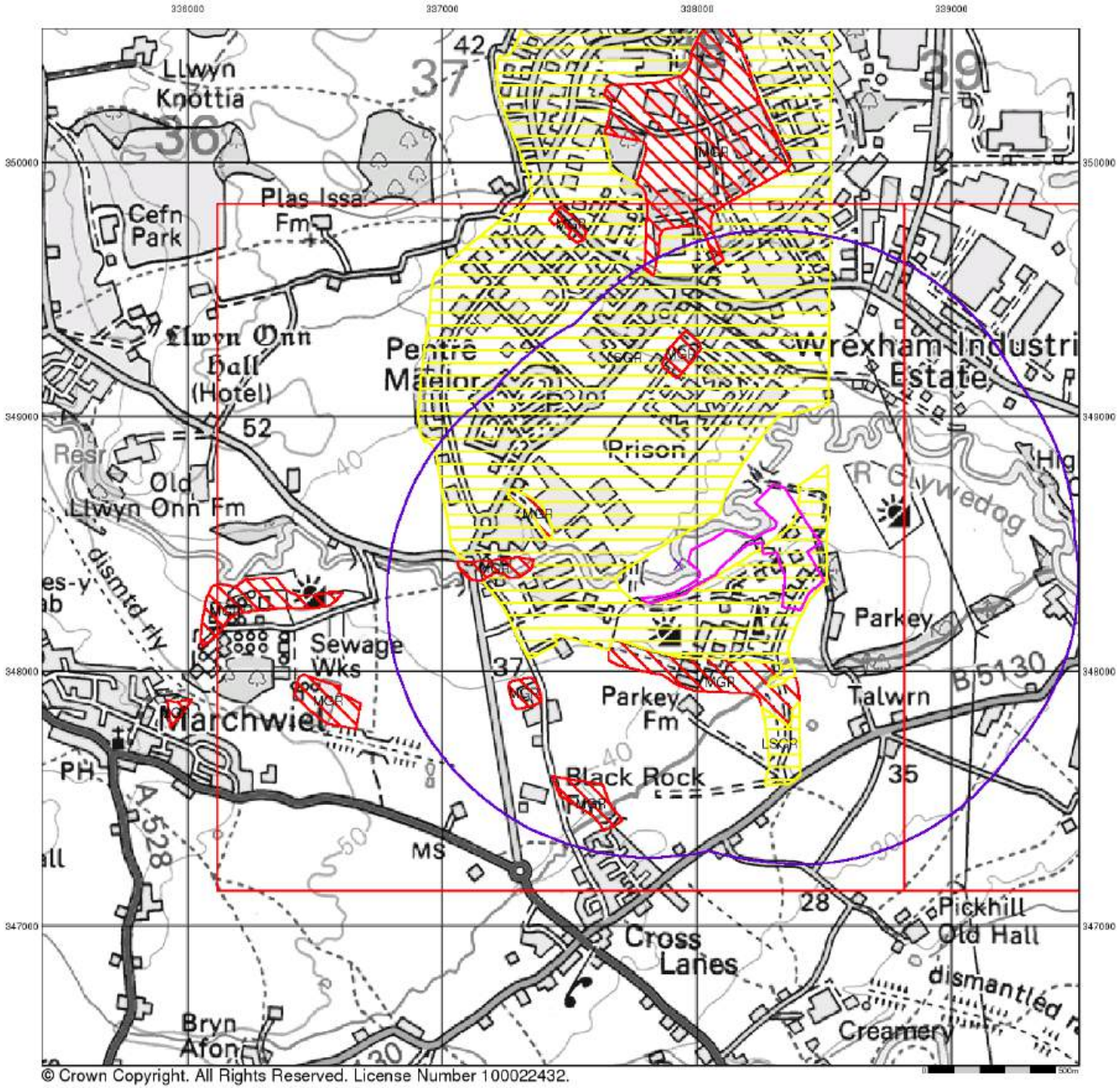


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Customer Reference: GSI 2006
National Grid Reference: 337930, 348420
Slice: A
Site Area (Ha): 9.63
Search Buffer (m): 1000

Site Details:

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Artificial Ground and Landslip

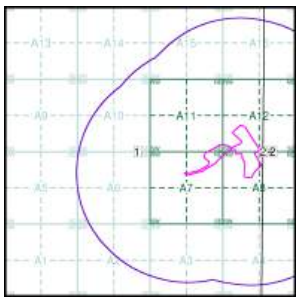
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

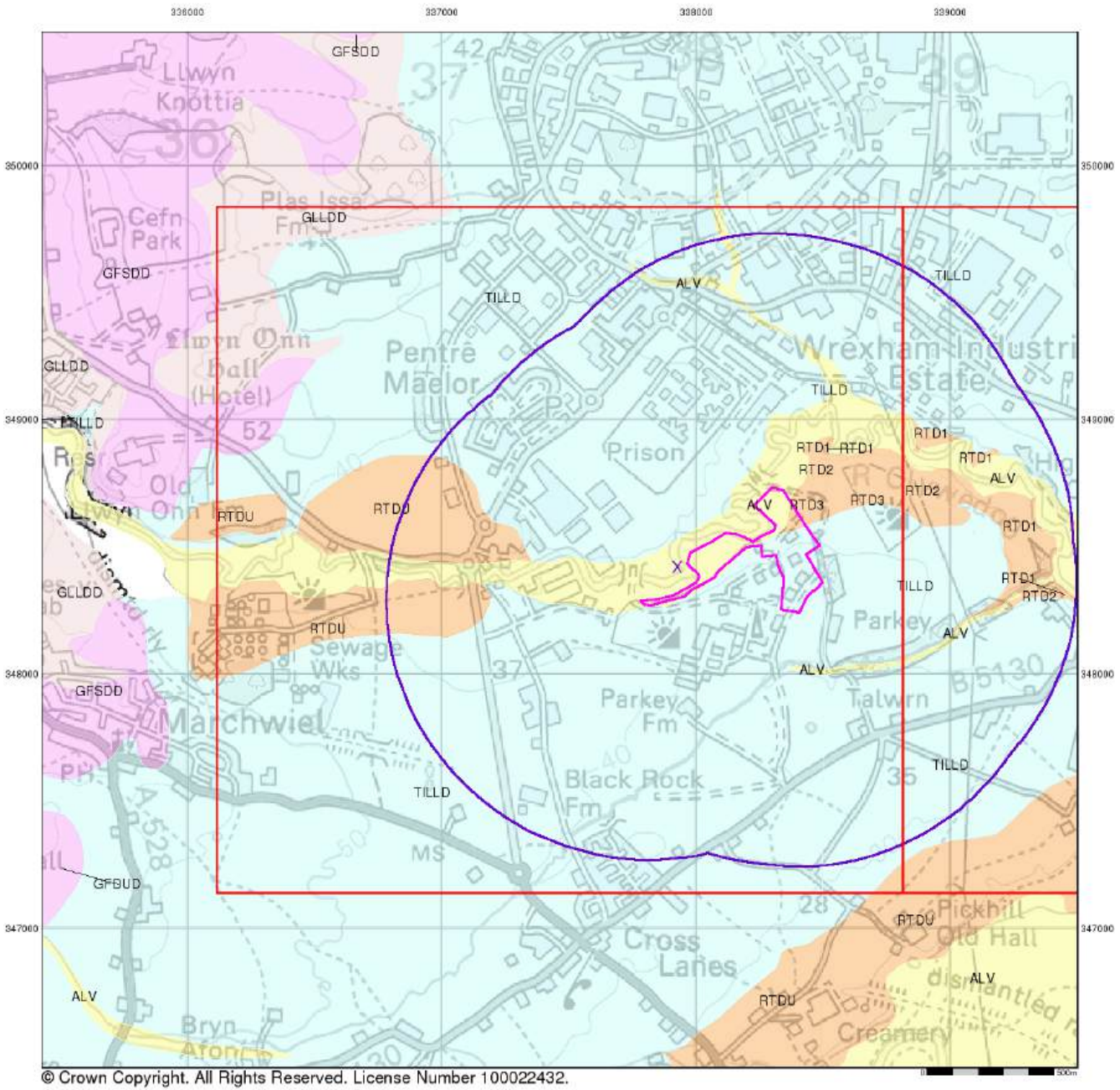


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Site Details:

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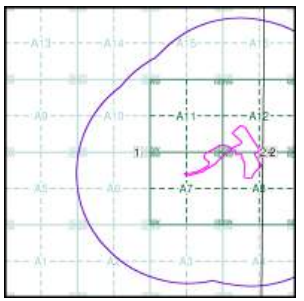
Superficial Geology

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

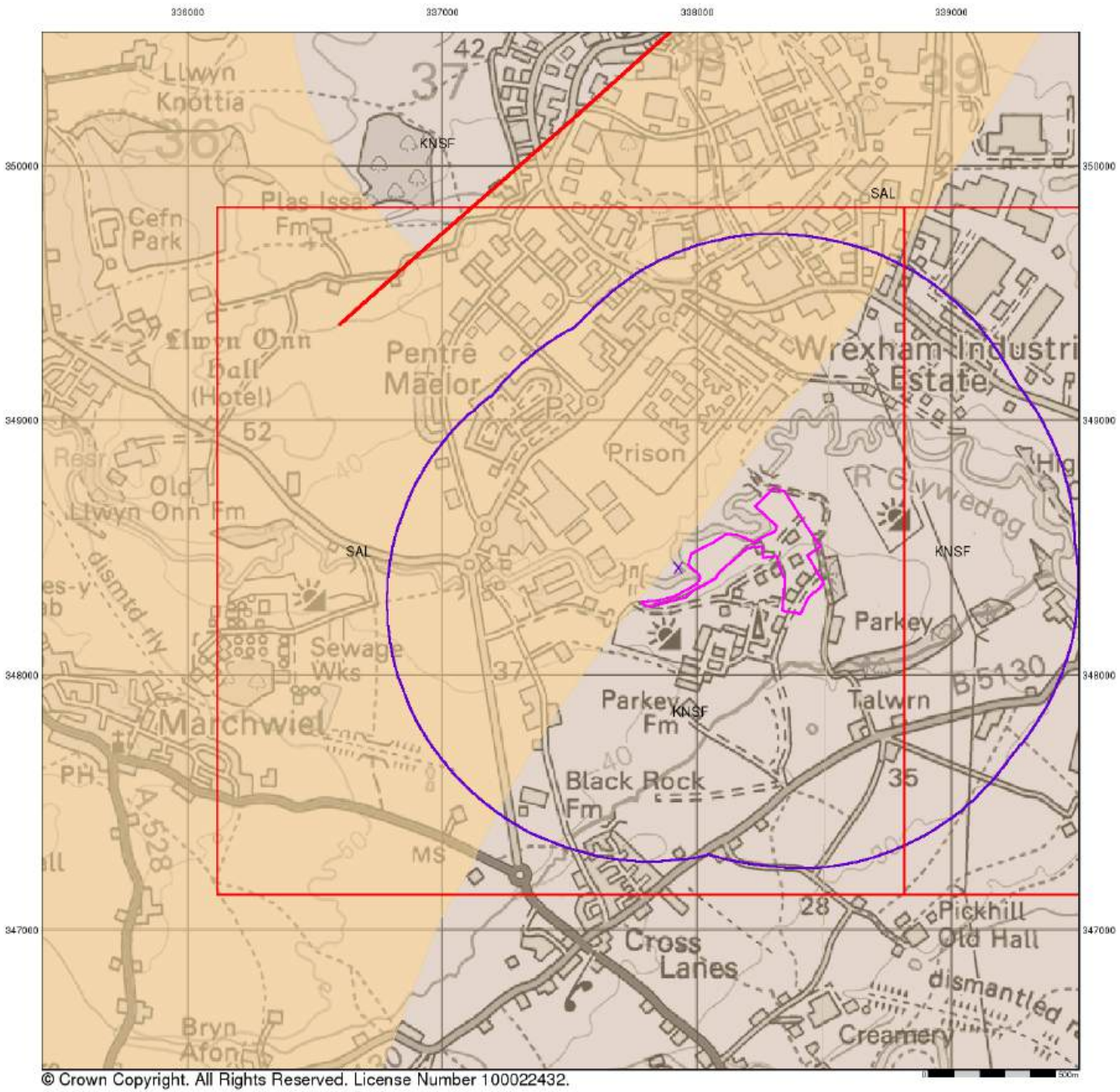


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Bedrock and Faults

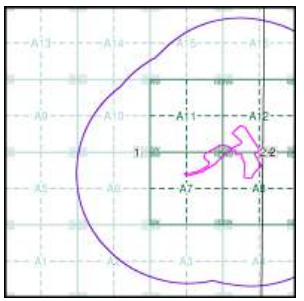
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



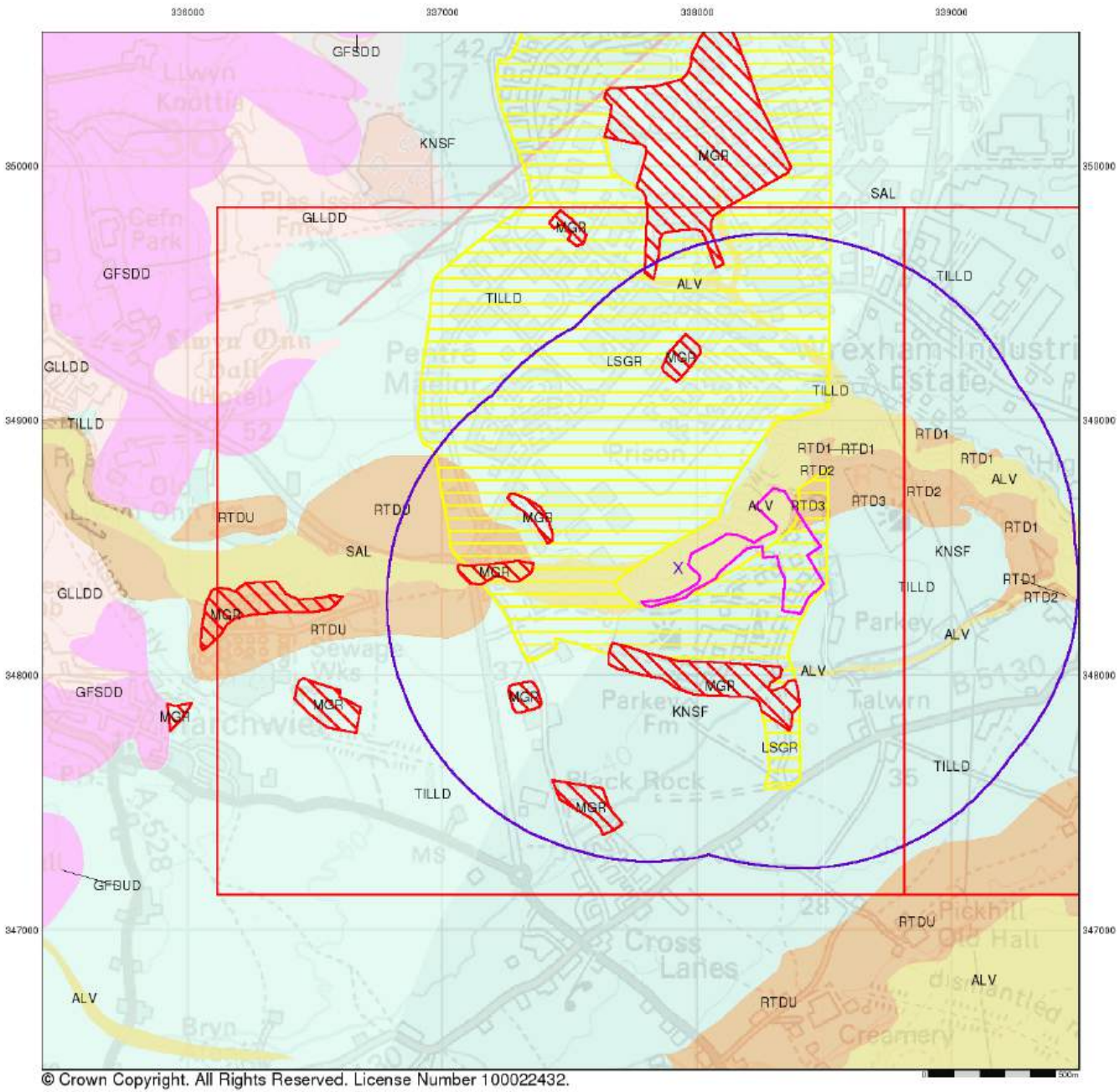
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Combined Surface Geology

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.

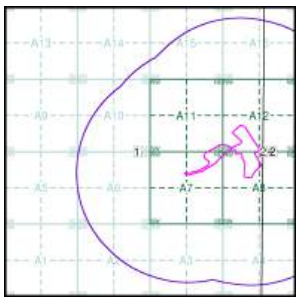
Additional Information

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

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

Combined Geology Map - Slice A

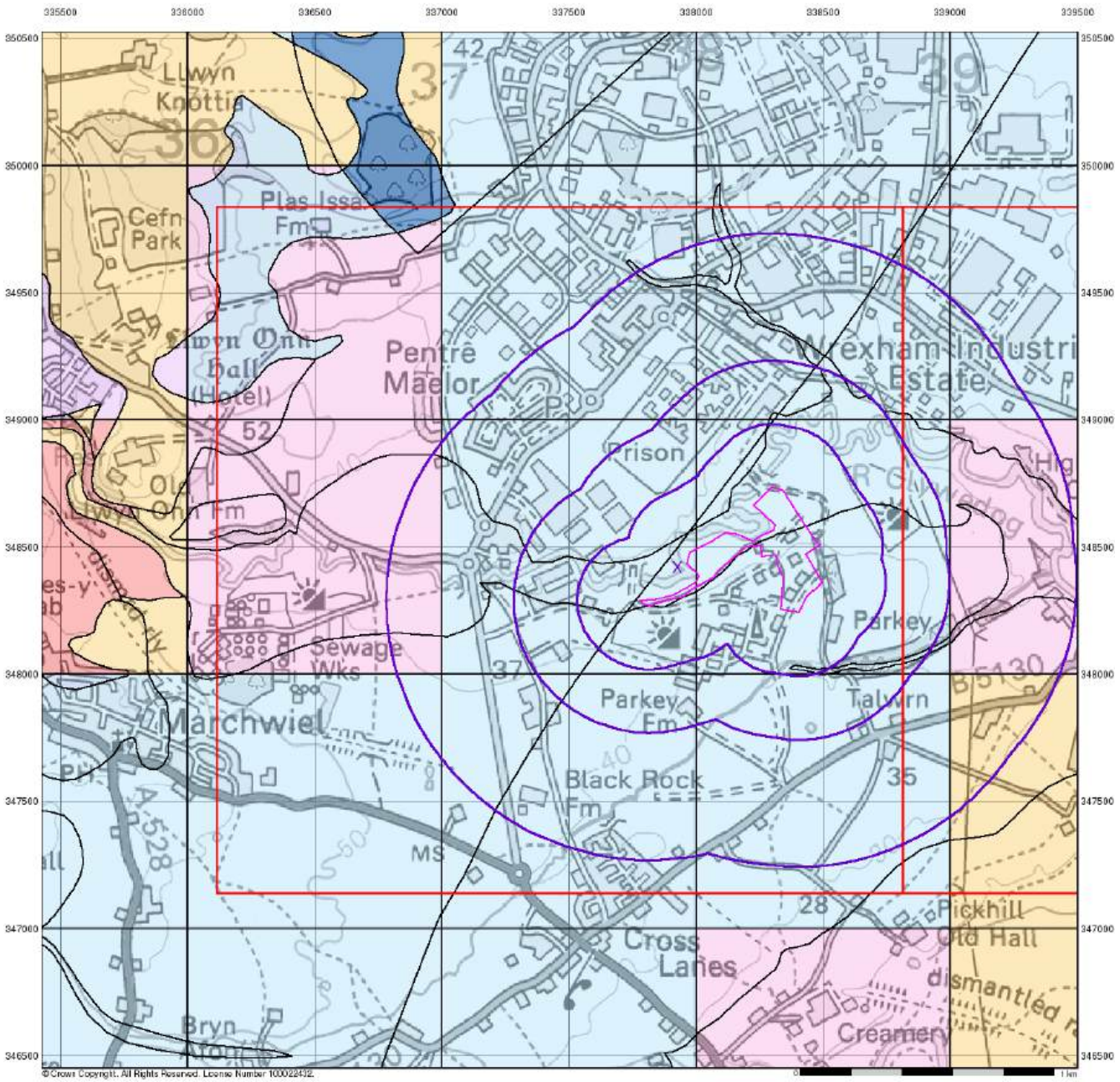


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Groundwater Vulnerability

General

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

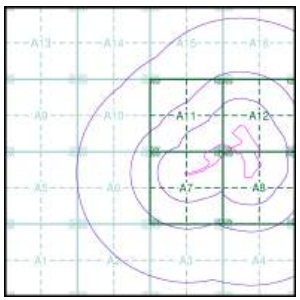
Agency and Hydrological

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



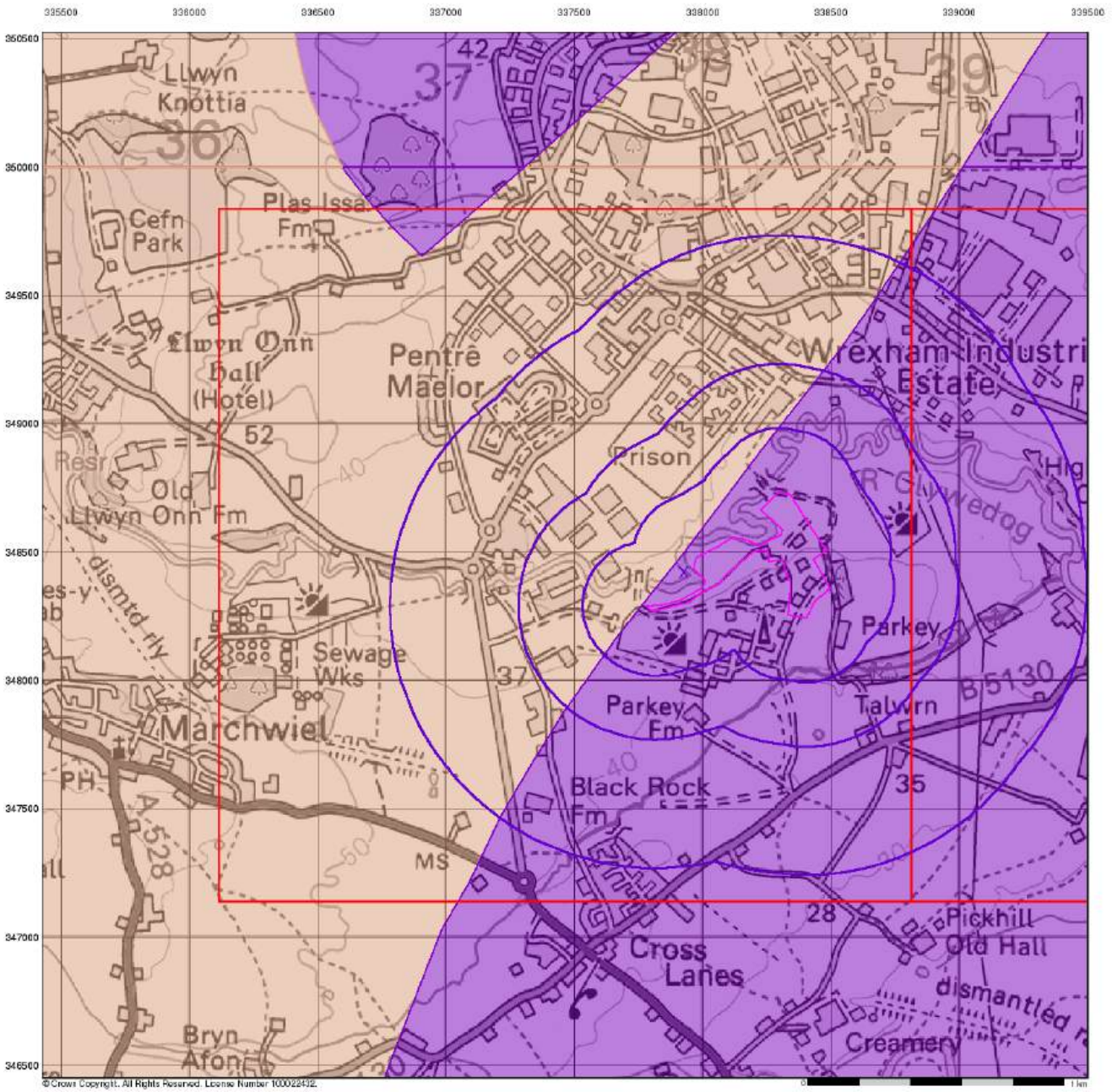
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Site Details

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Bedrock Aquifer Designation

General

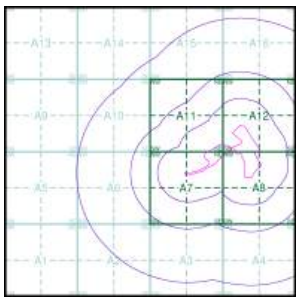
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



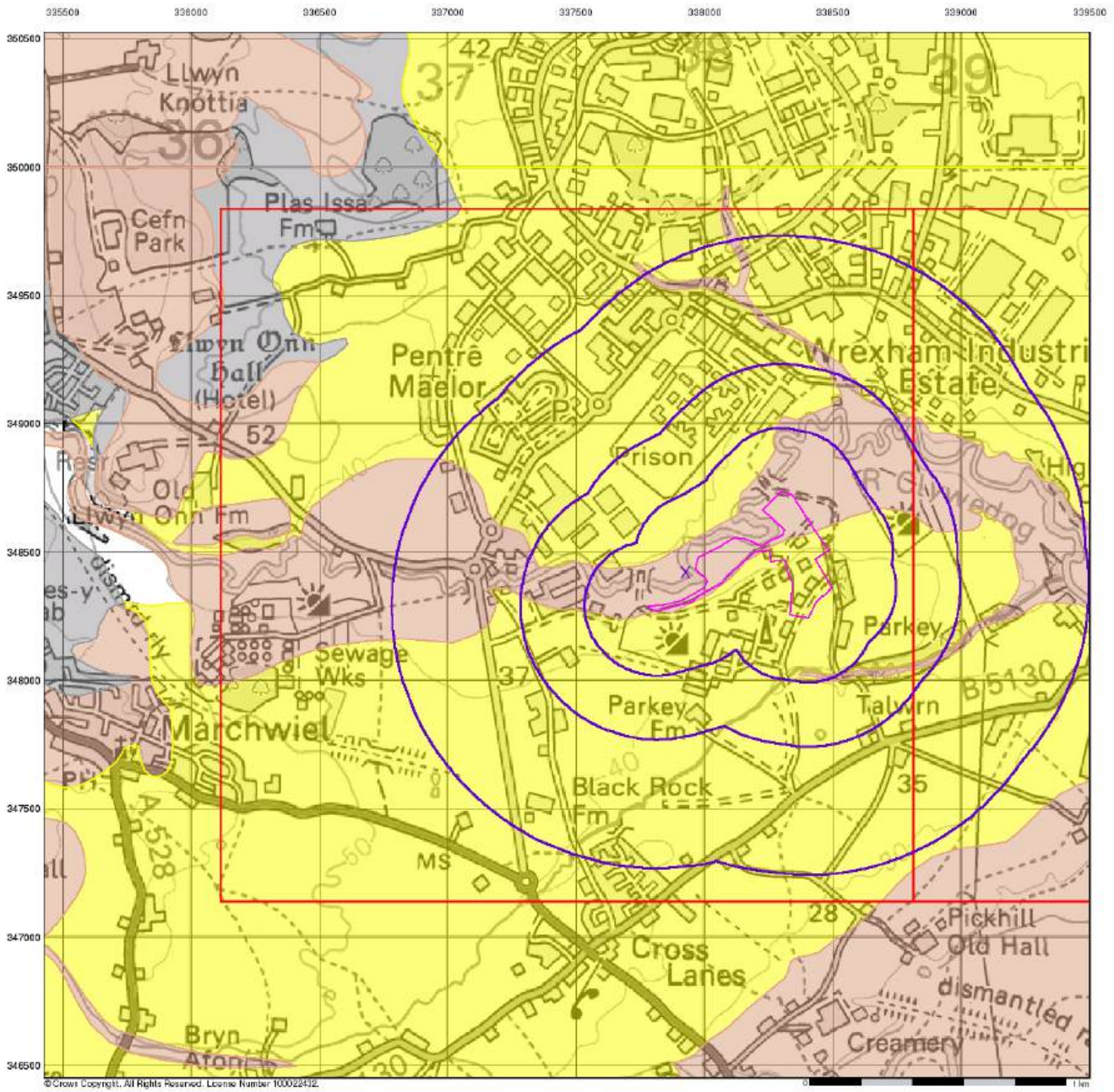
N

Order Details

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Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

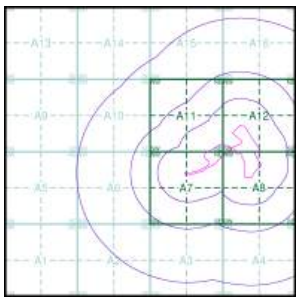
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

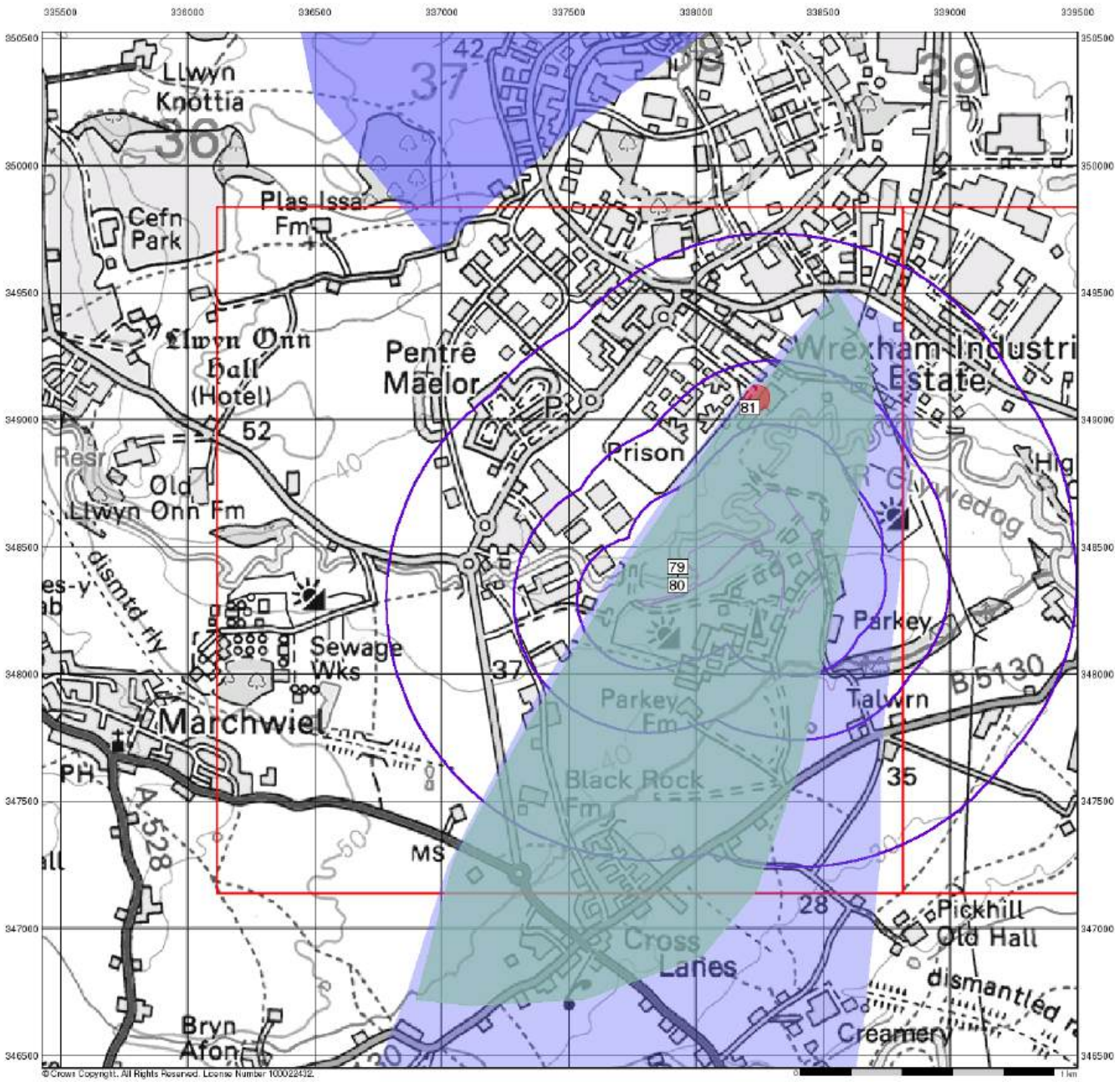


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Site Details

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Source Protection Zones

General

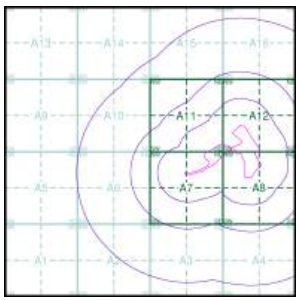
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



N

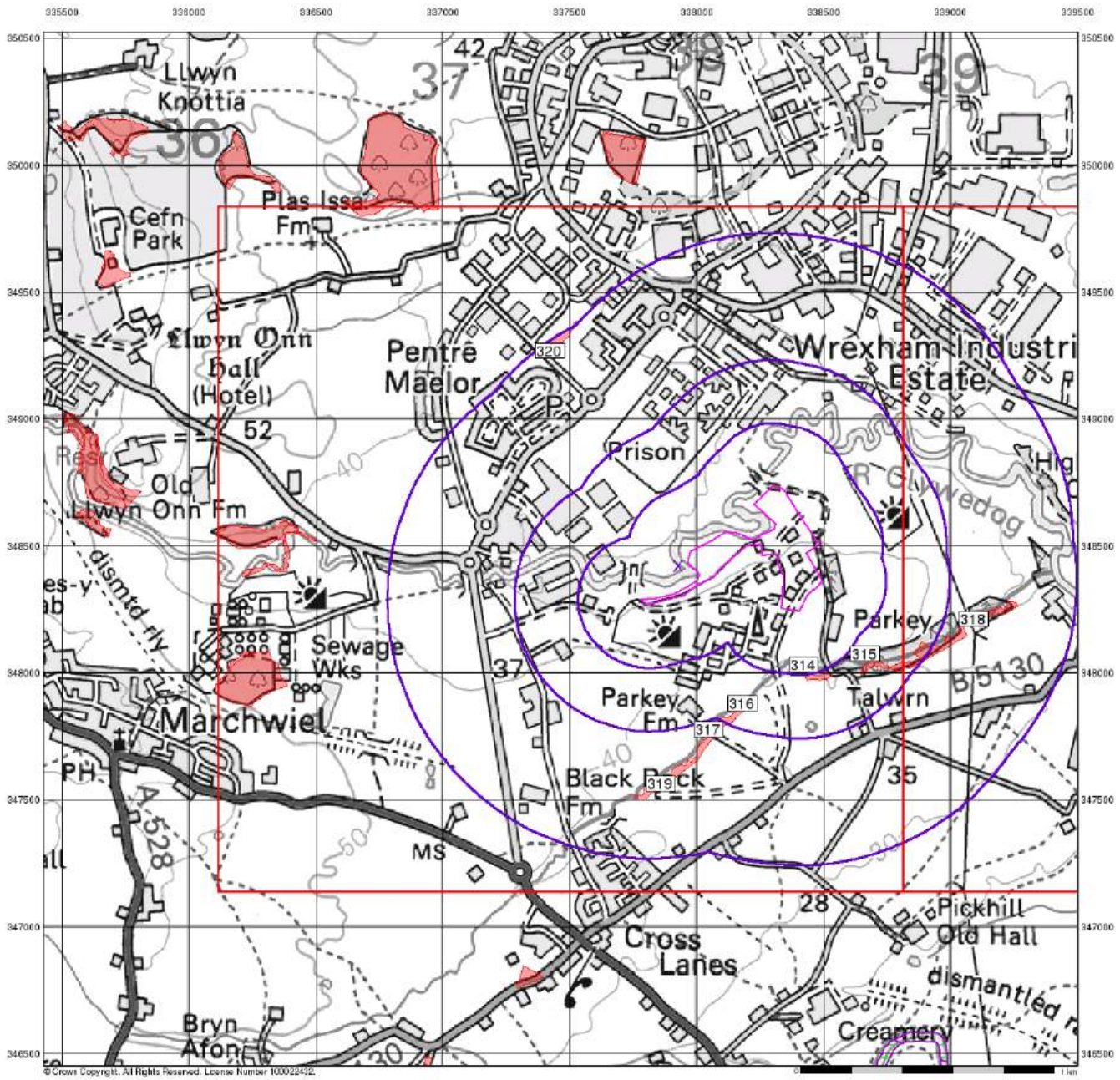
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Site Details

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Sensitive Land Uses

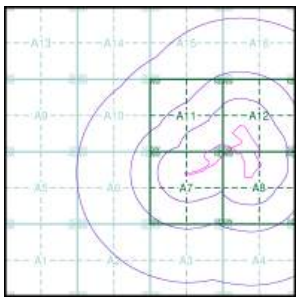
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

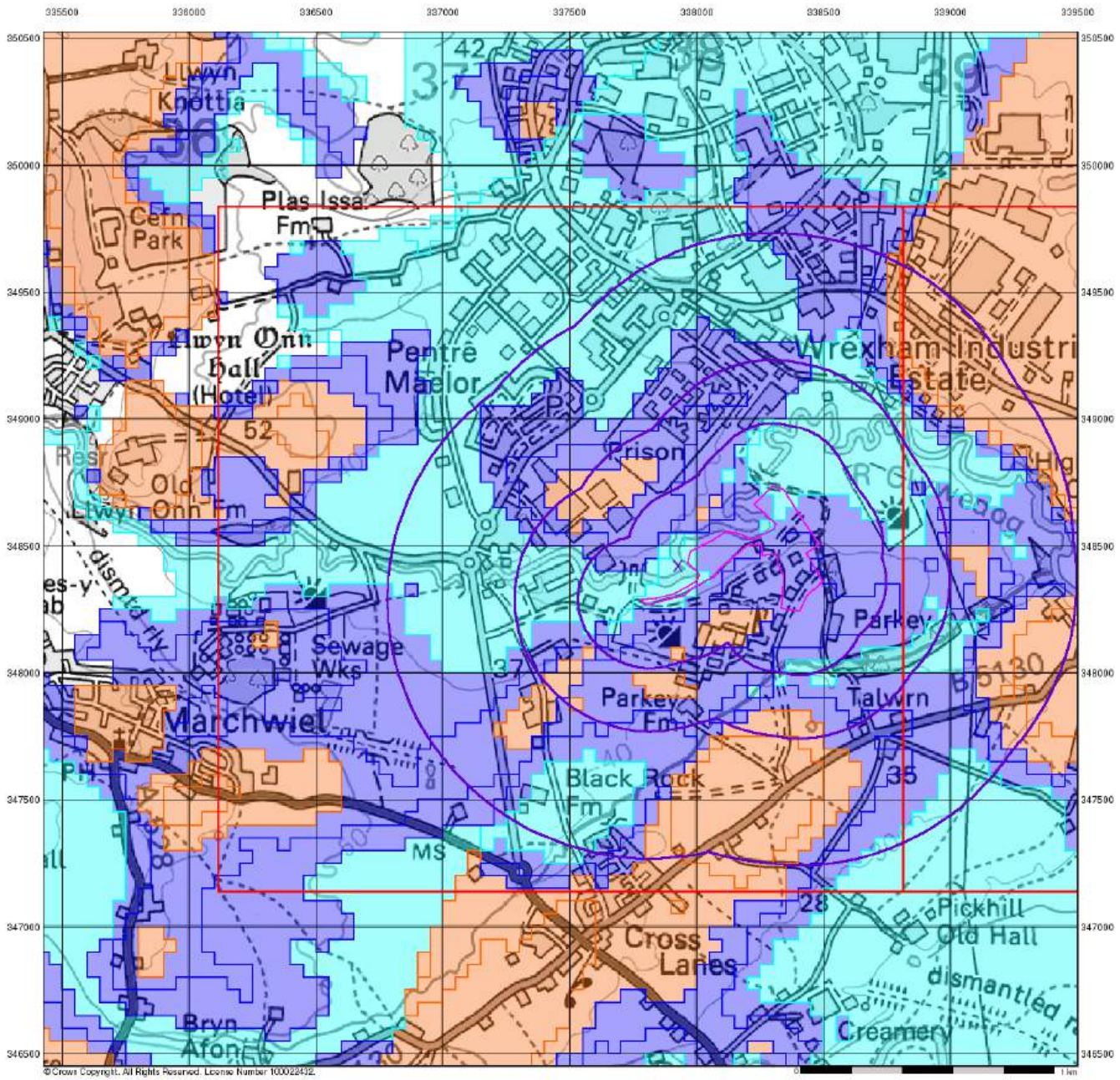


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Site Details

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BGS Flood GFS Data

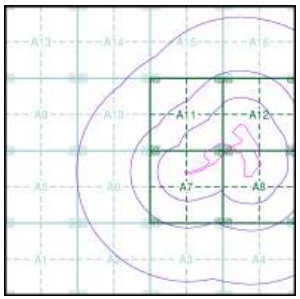
General

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

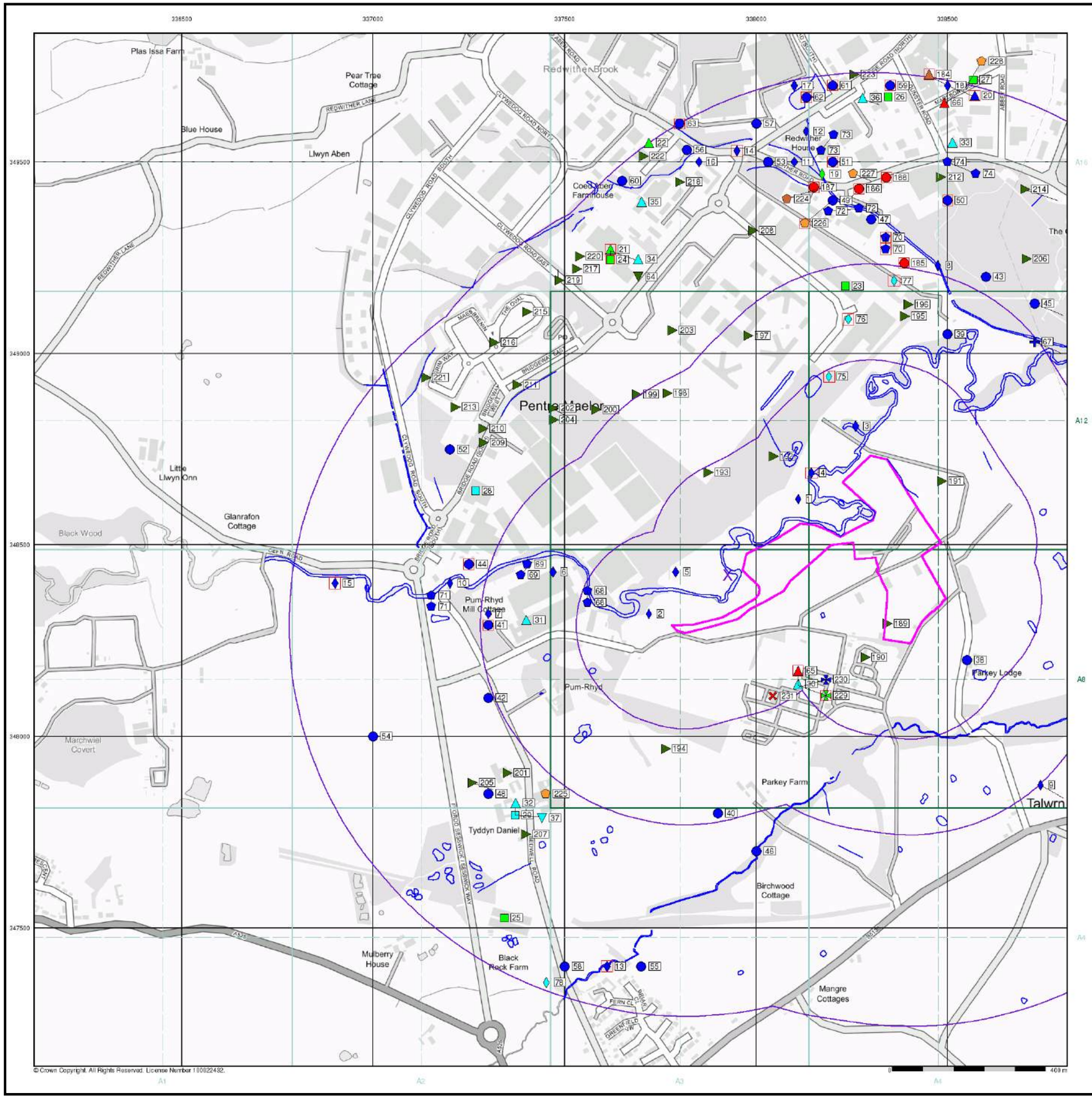


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Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

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

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

Hazardous Substances

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

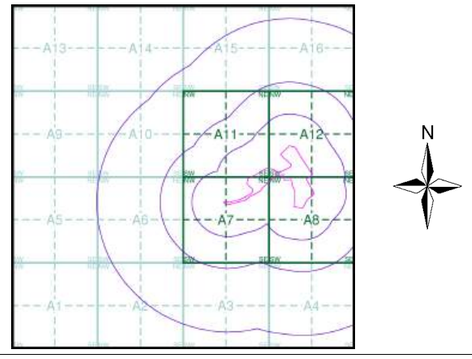
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A



Order Details

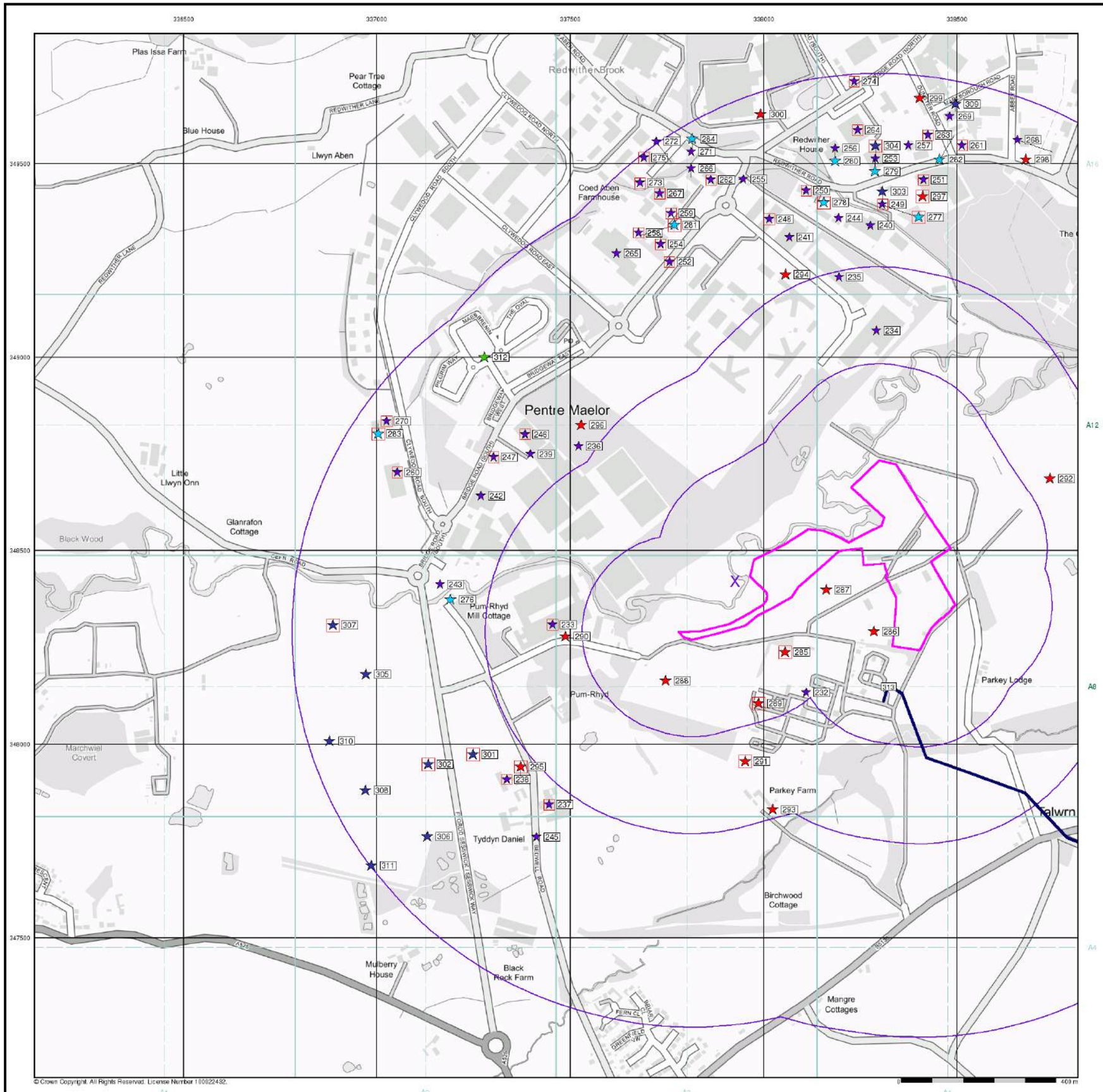
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Search Buffer (m):	1000

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Industrial Land Use Map

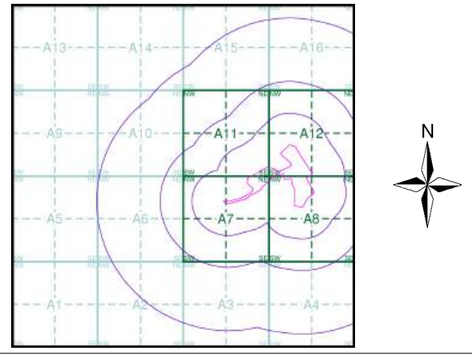
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



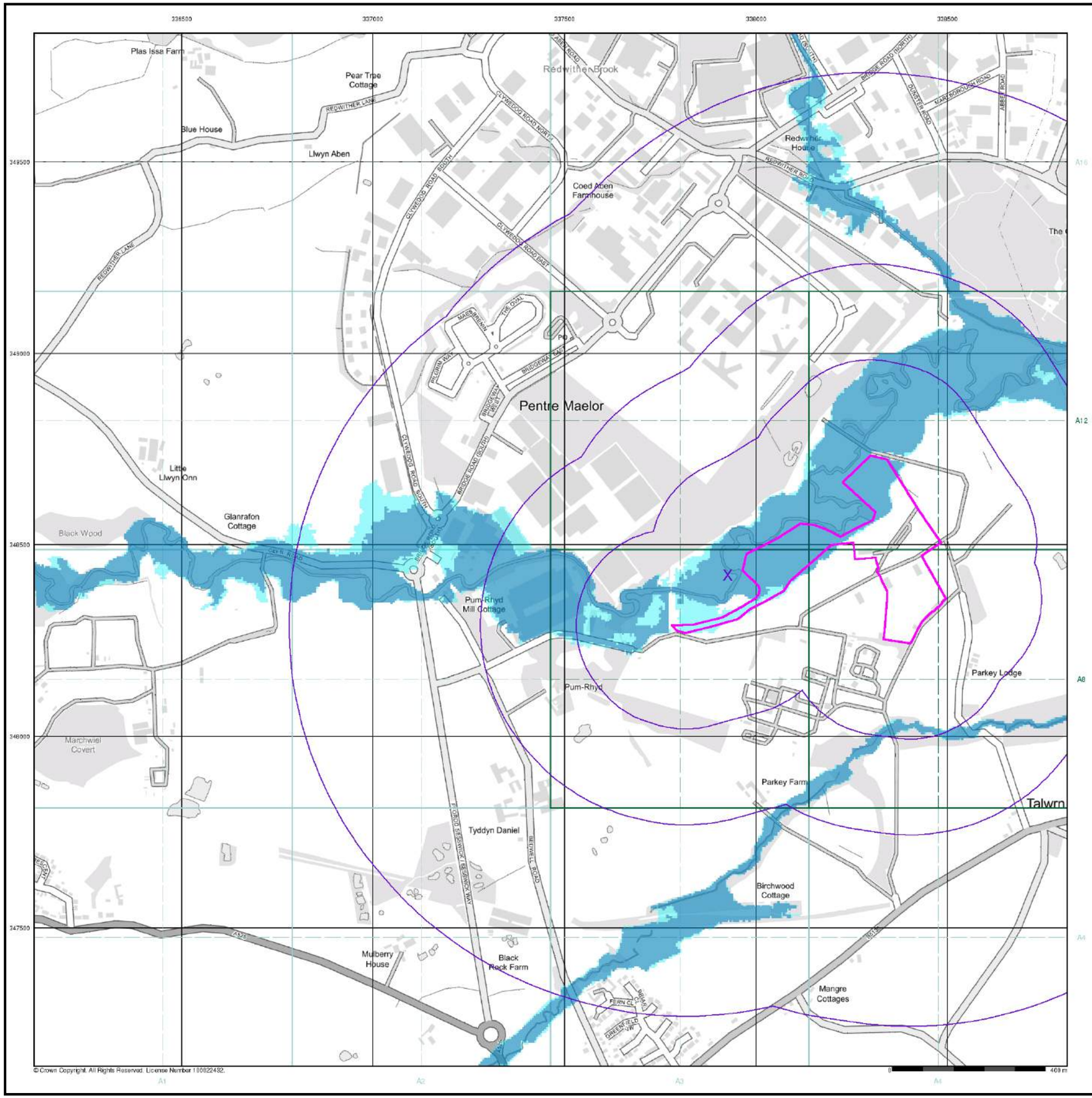
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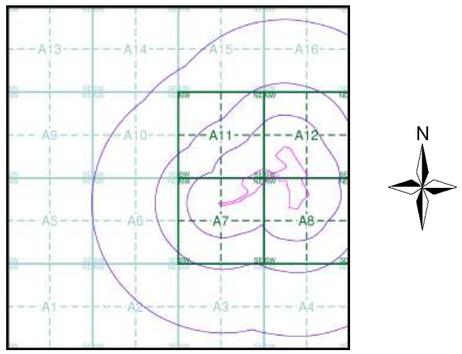
General

- Specified Site
- Specified Buffer(s)
- X 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



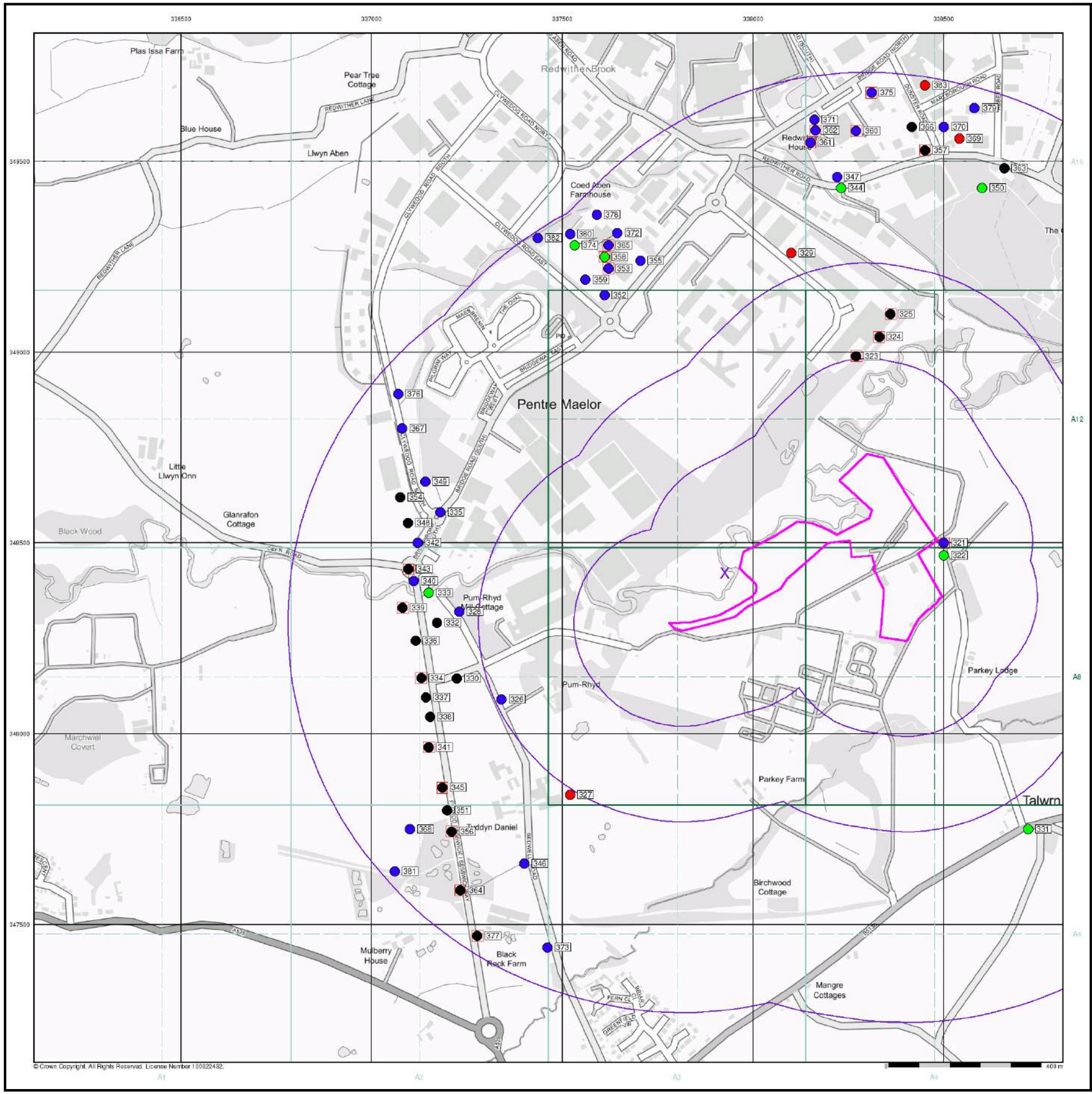
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General

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

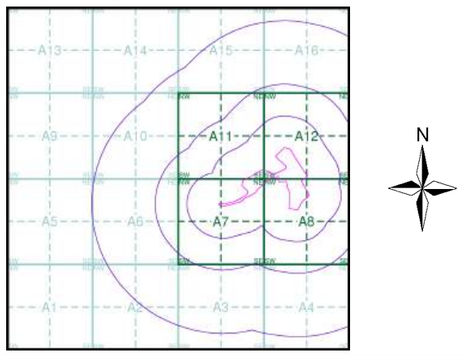
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



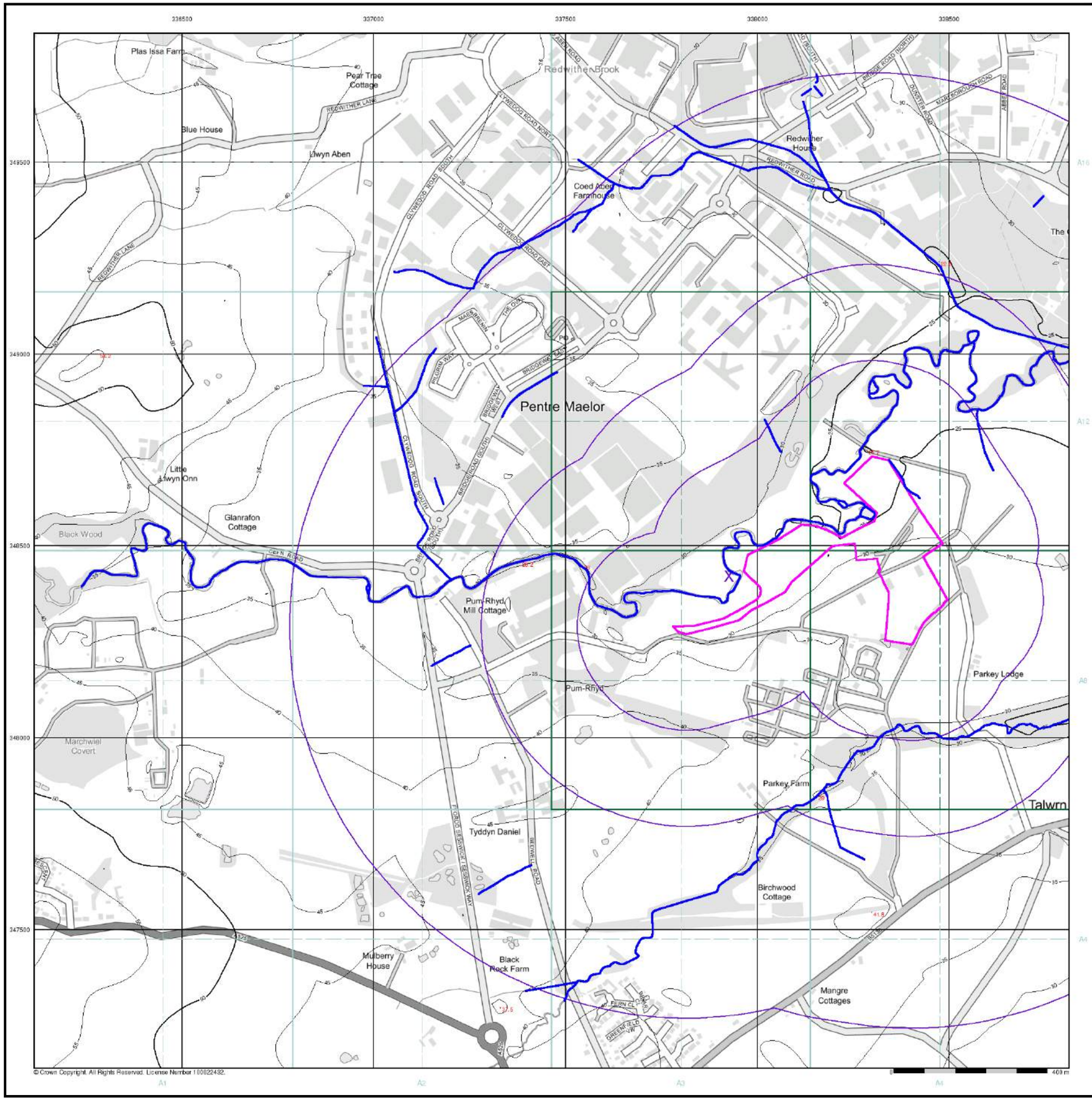
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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



GEOCON®

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

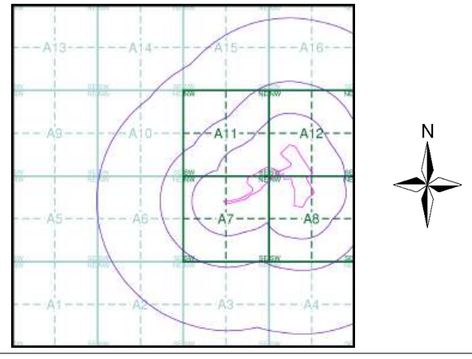
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

OS Water Network Map - Slice A



Order Details

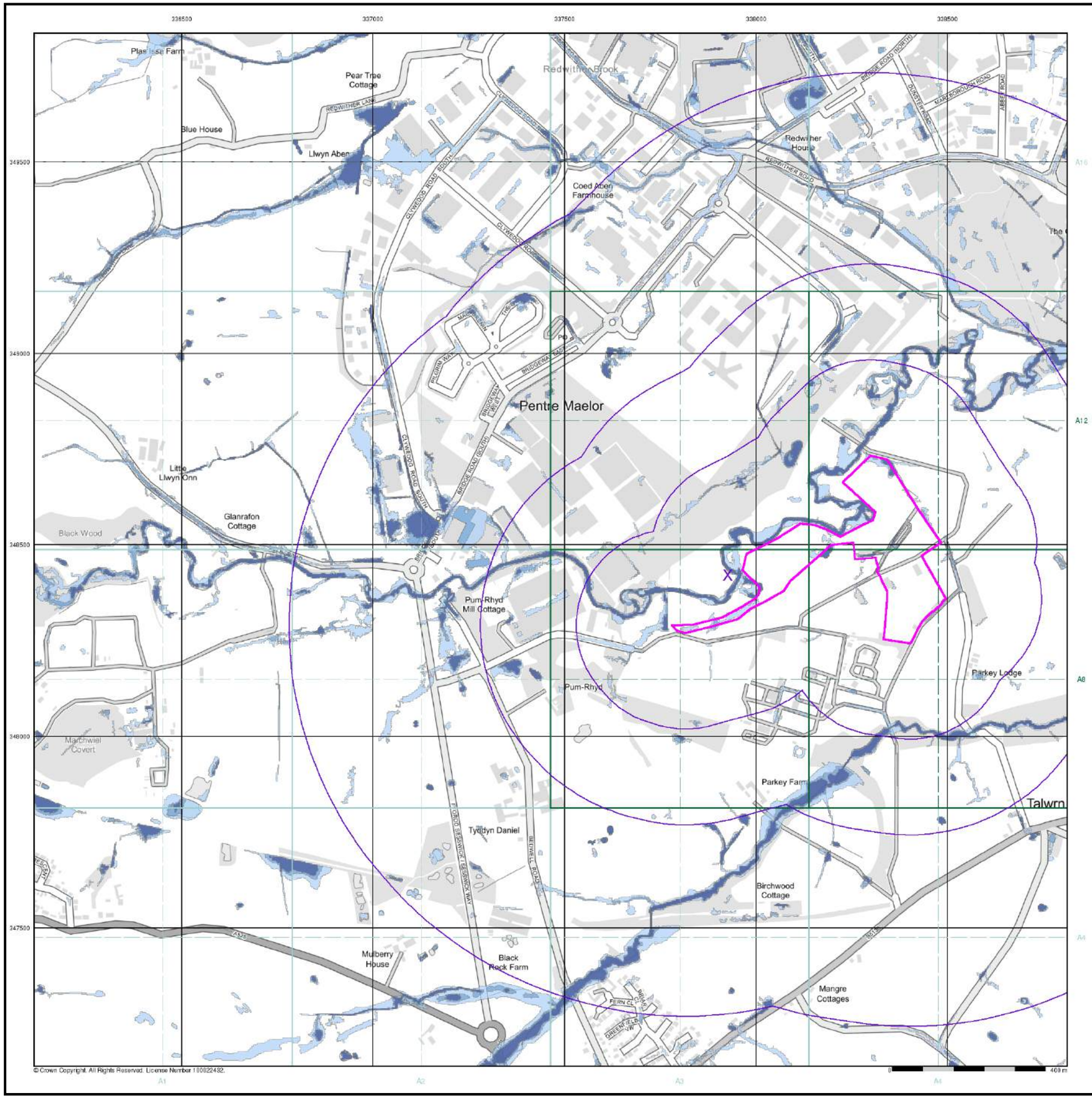
Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

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- Specified Buffer(s)
- X Bearing Reference Point

Risk of Flooding from Surface Water

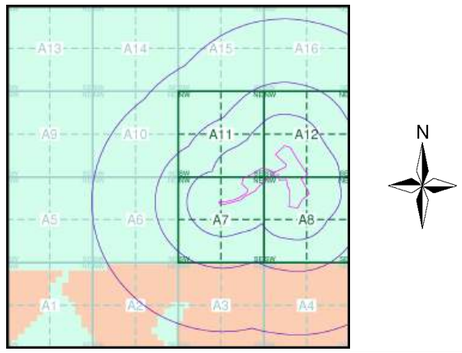
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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

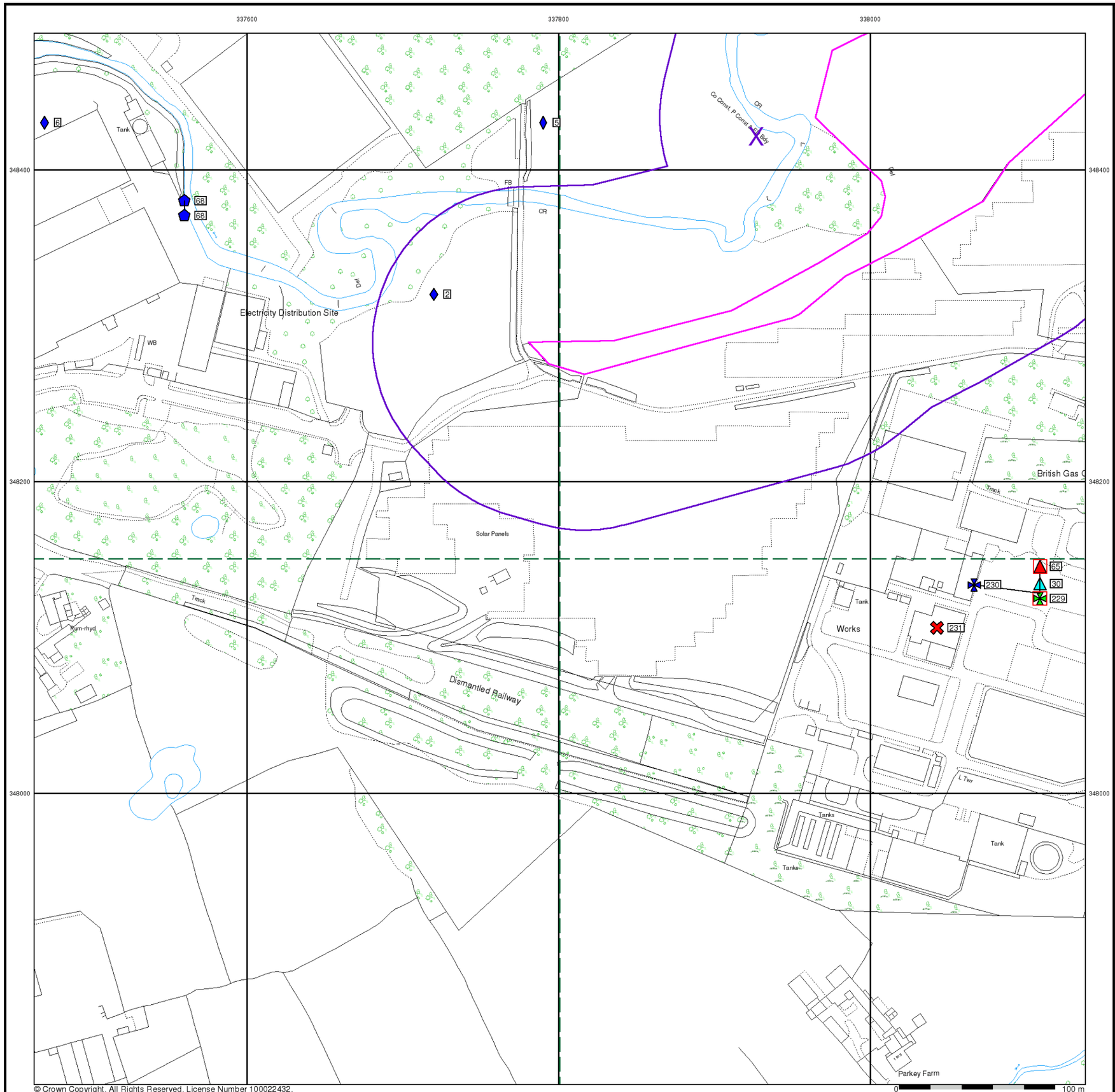
Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

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GEOCON®

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
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

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

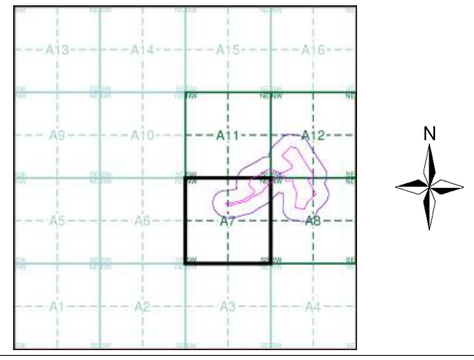
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A7



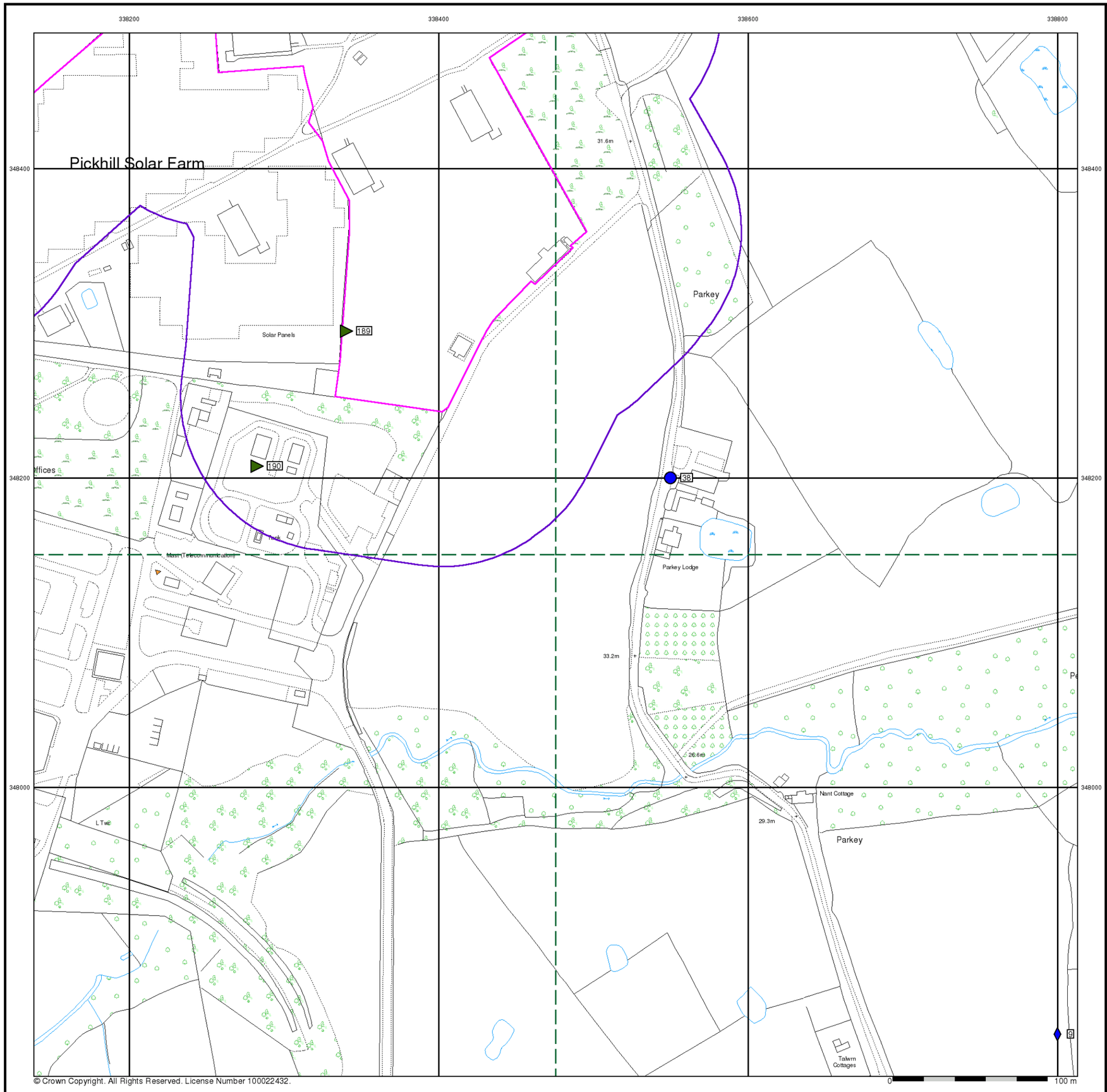
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Plot Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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



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GEOCON®

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
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

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

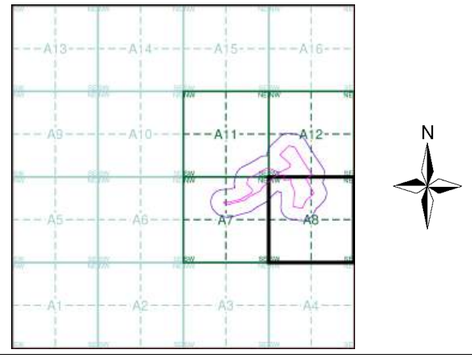
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A8



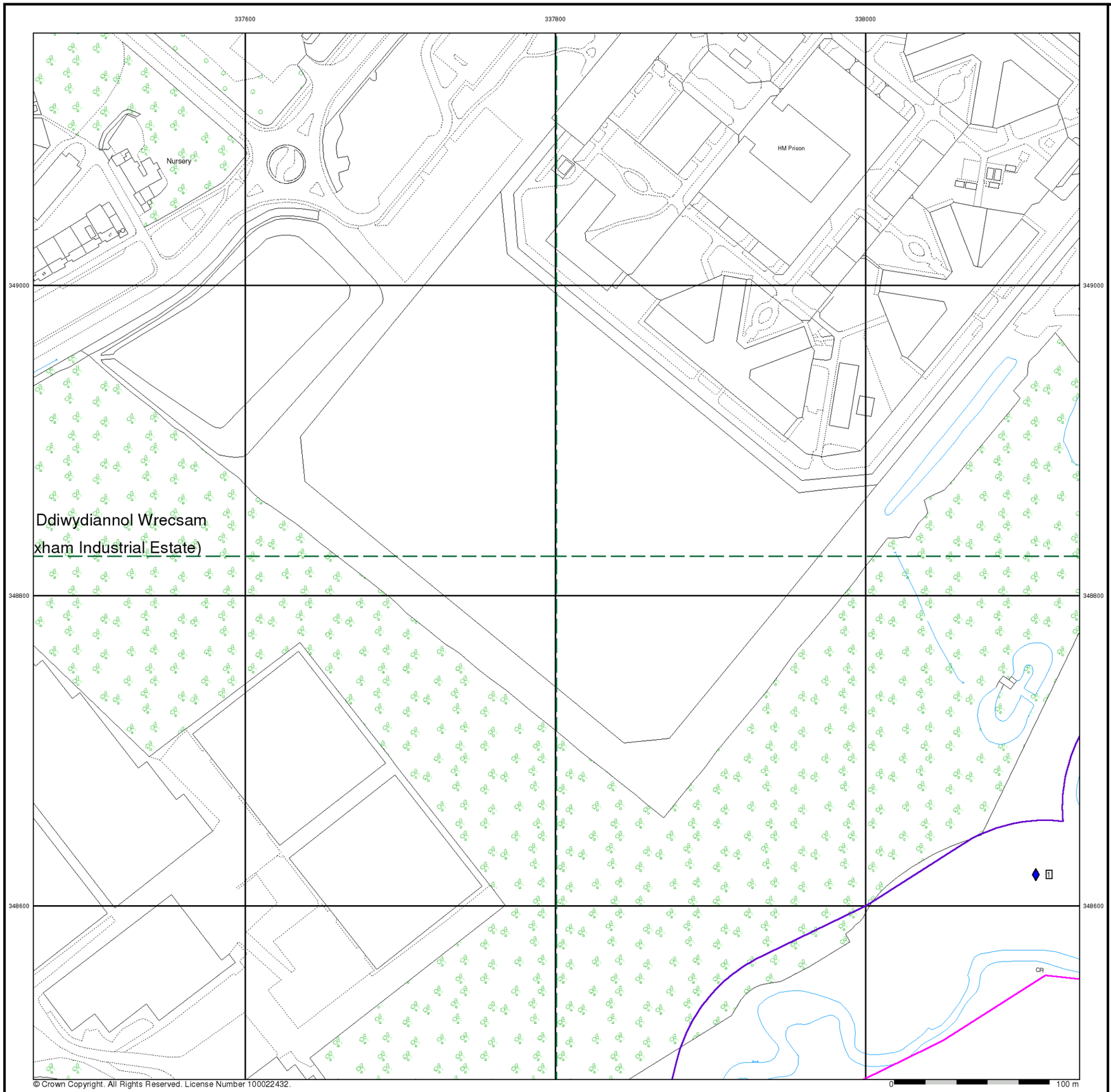
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Plot Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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



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GEOCON®

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
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- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
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- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

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

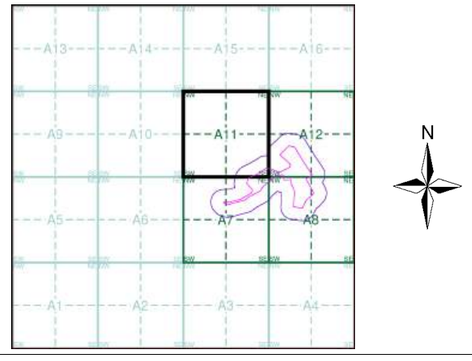
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
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- 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

Site Sensitivity Map - Segment A11



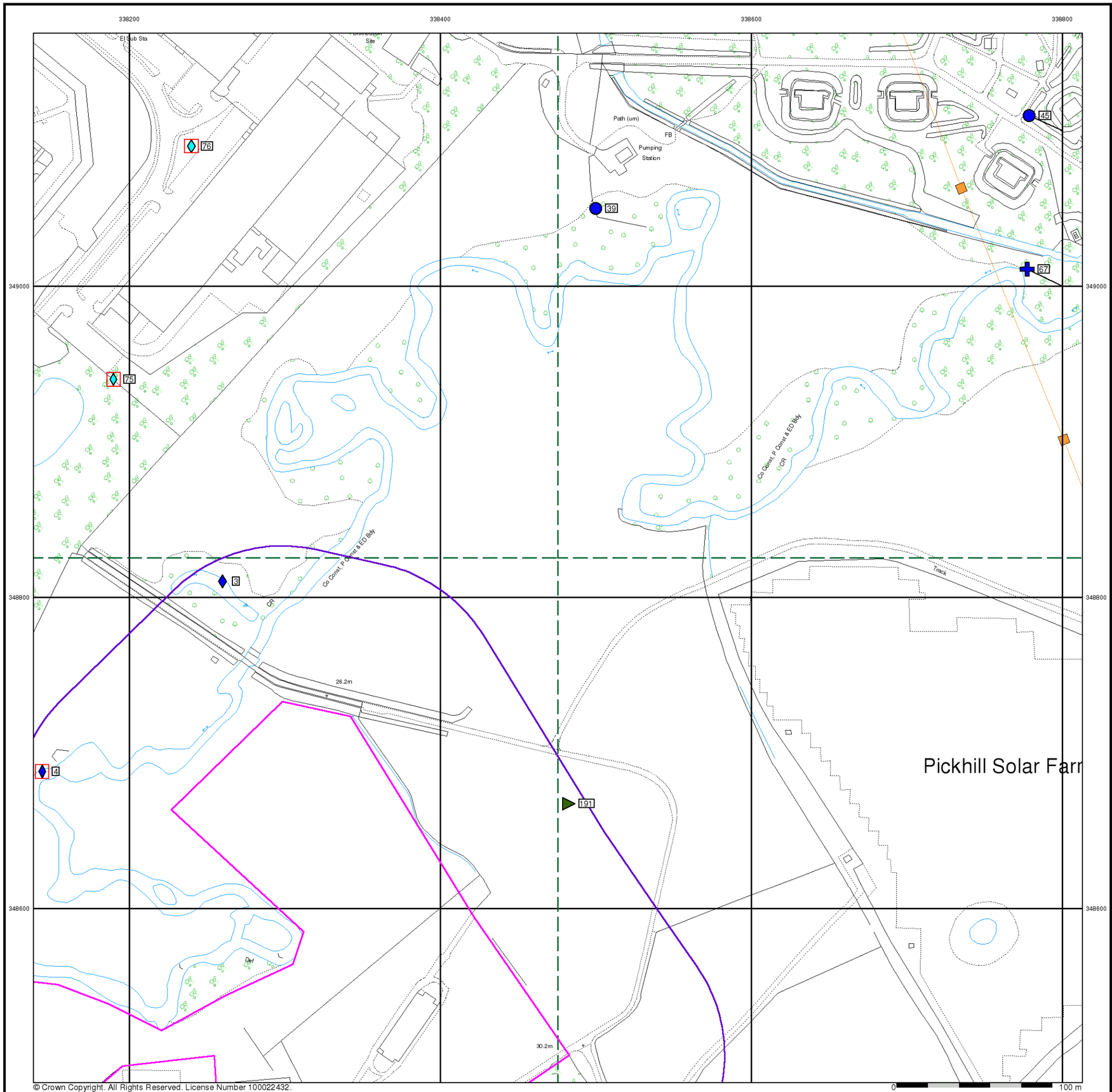
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Plot Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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Web: www.envirocheck.co.uk



GEOCON®

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
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- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

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

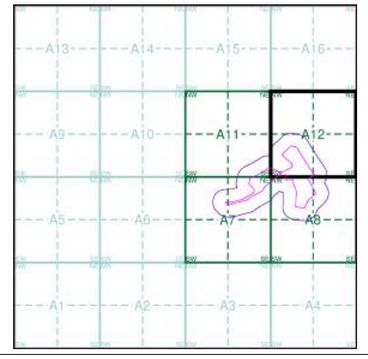
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A12



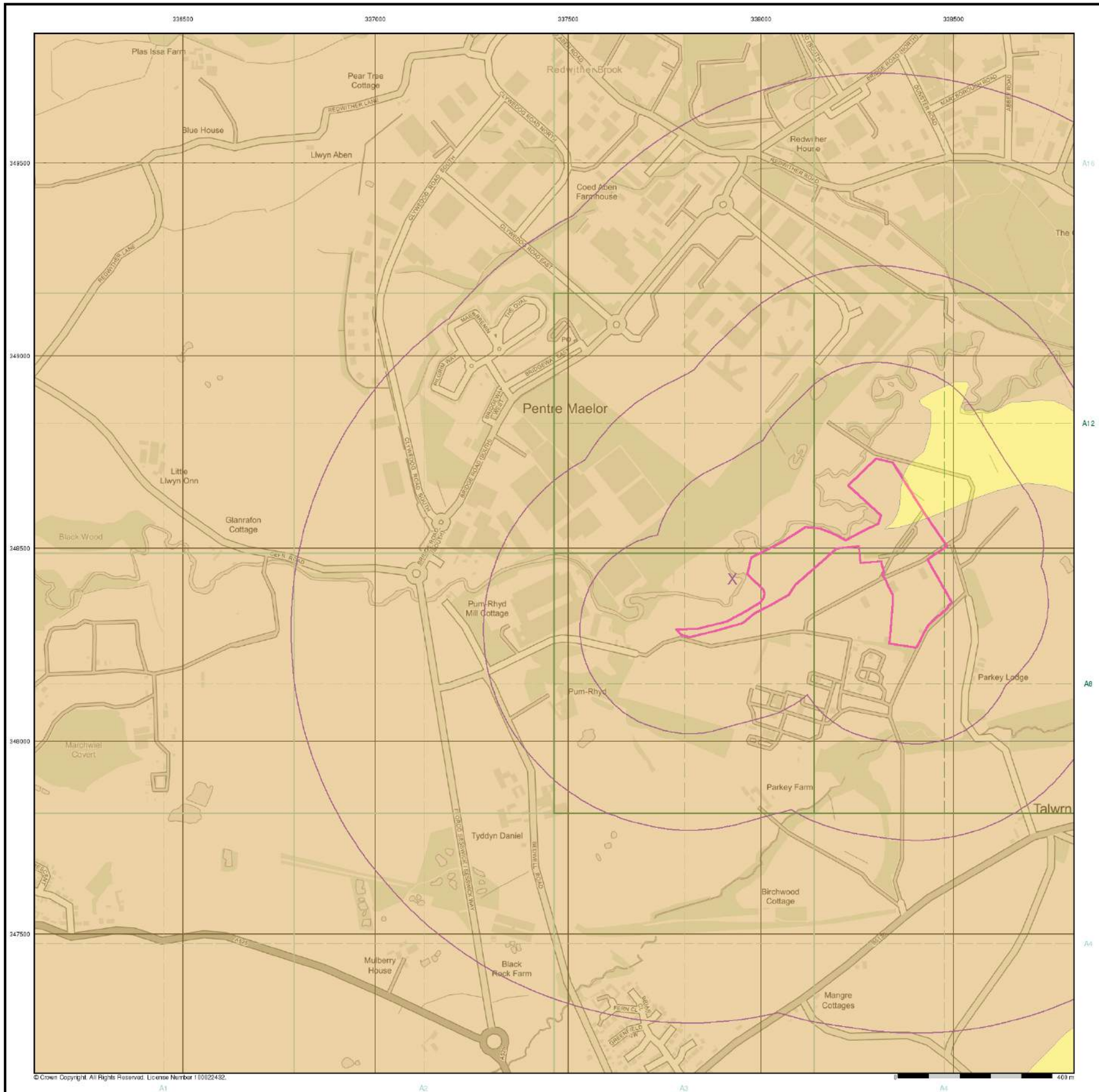
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Plot Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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Web: www.envirocheck.co.uk



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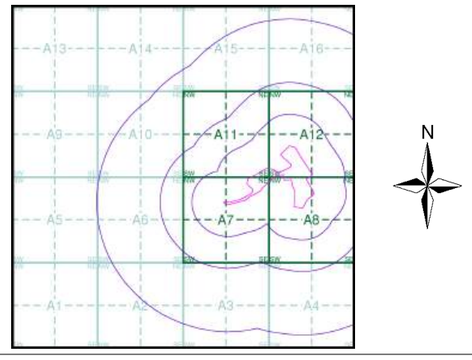
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

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General

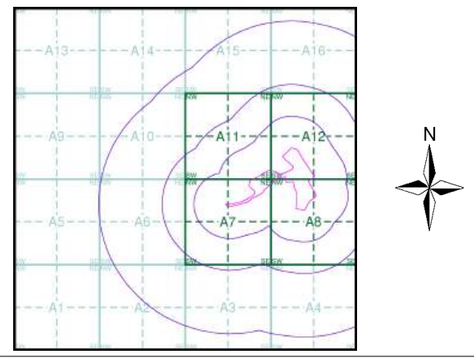
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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

Order Details:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
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Search Buffer (m):	1000

Site Details

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



General

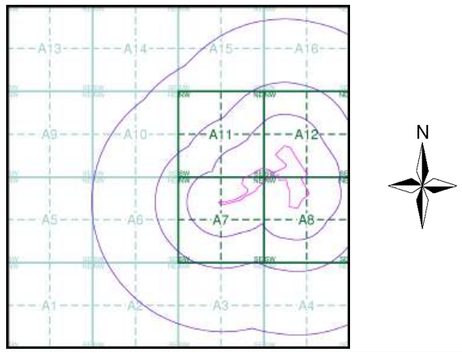
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



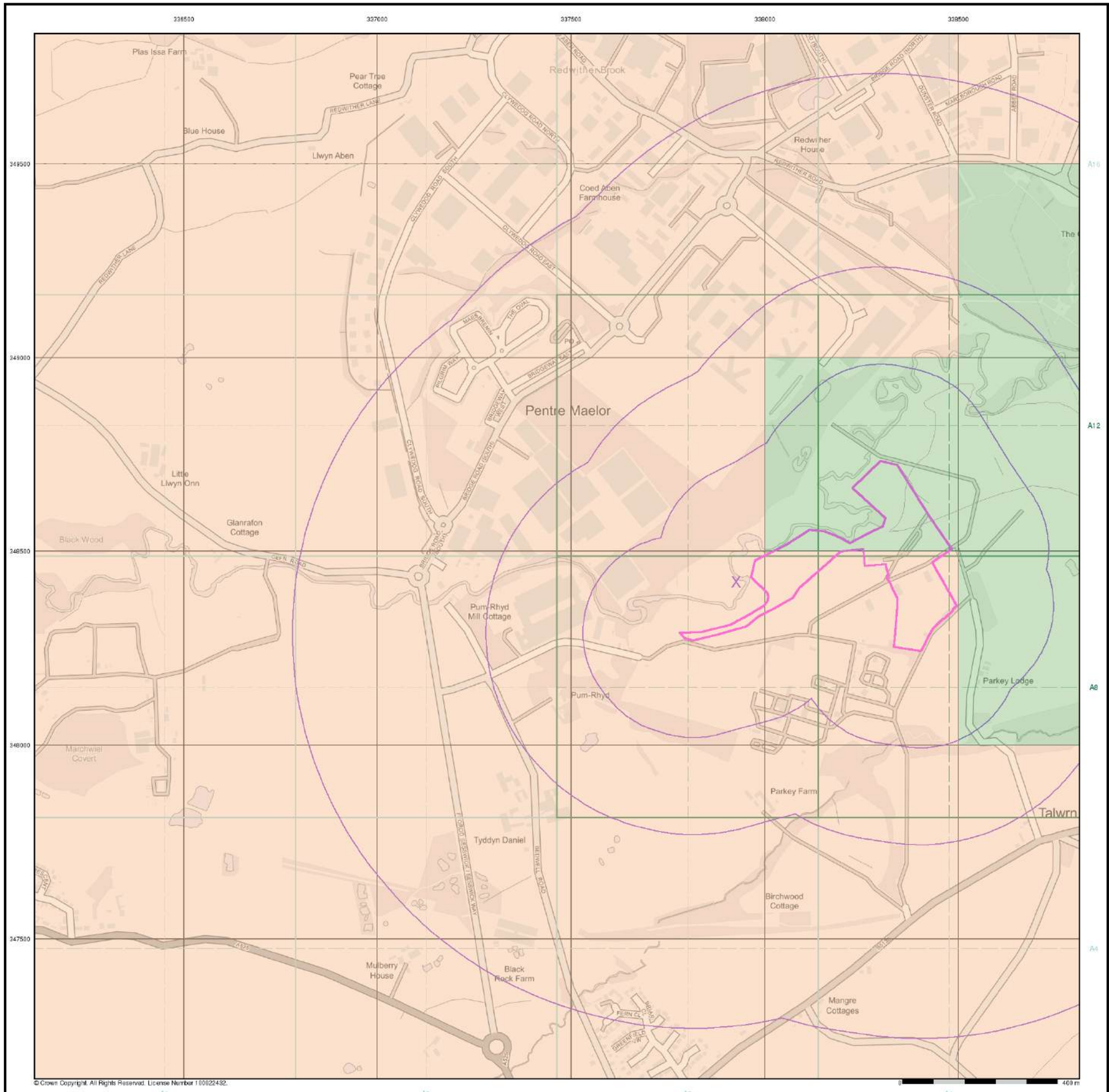
Order Details

Order Details:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

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General

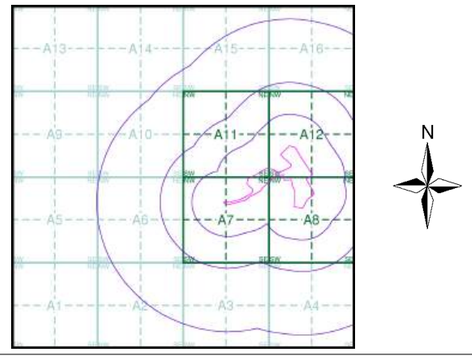
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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

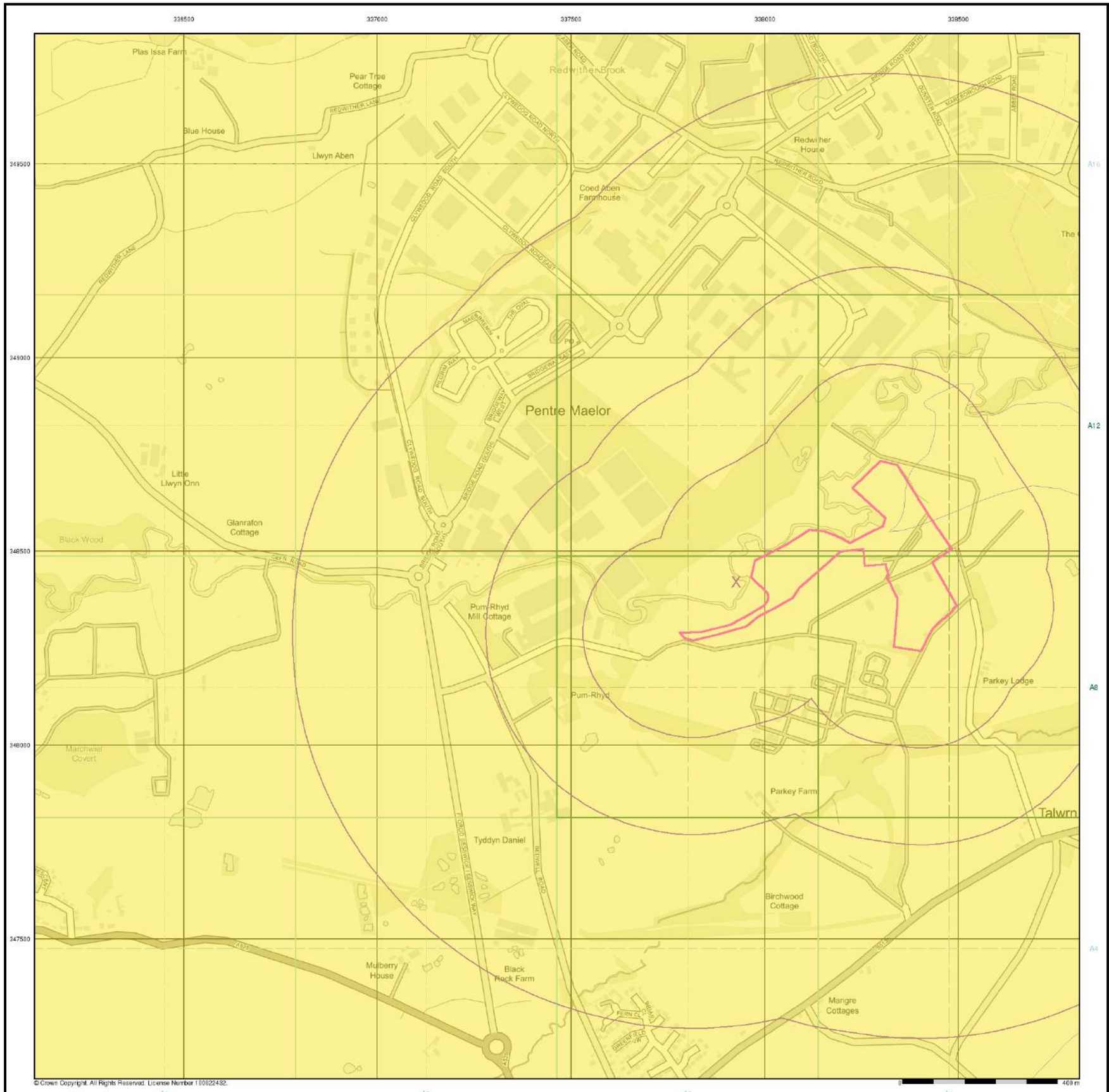
Order Details:	325490765_1_1
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National Grid Reference:	337930, 348420
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General

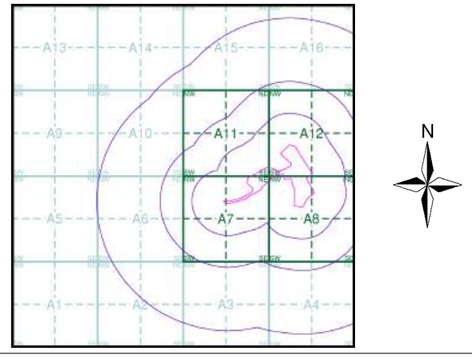
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

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
Pylon
Electricity Transmission Line
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

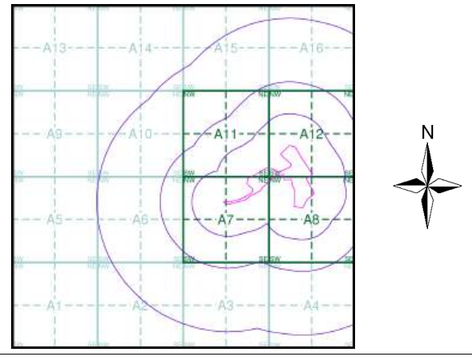
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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
Denbighshire	1:10,560	1879	2
Flintshire	1:10,560	1879	3
Cheshire	1:10,560	1881	4
Denbighshire	1:10,560	1899	5
Flintshire	1:10,560	1900	6
Denbighshire	1:10,560	1914	7
Denbighshire	1:10,560	1938 - 1954	8
Denbighshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964	10
Ordnance Survey Plan	1:10,000	1979	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2023	15

Historical Map - Slice A



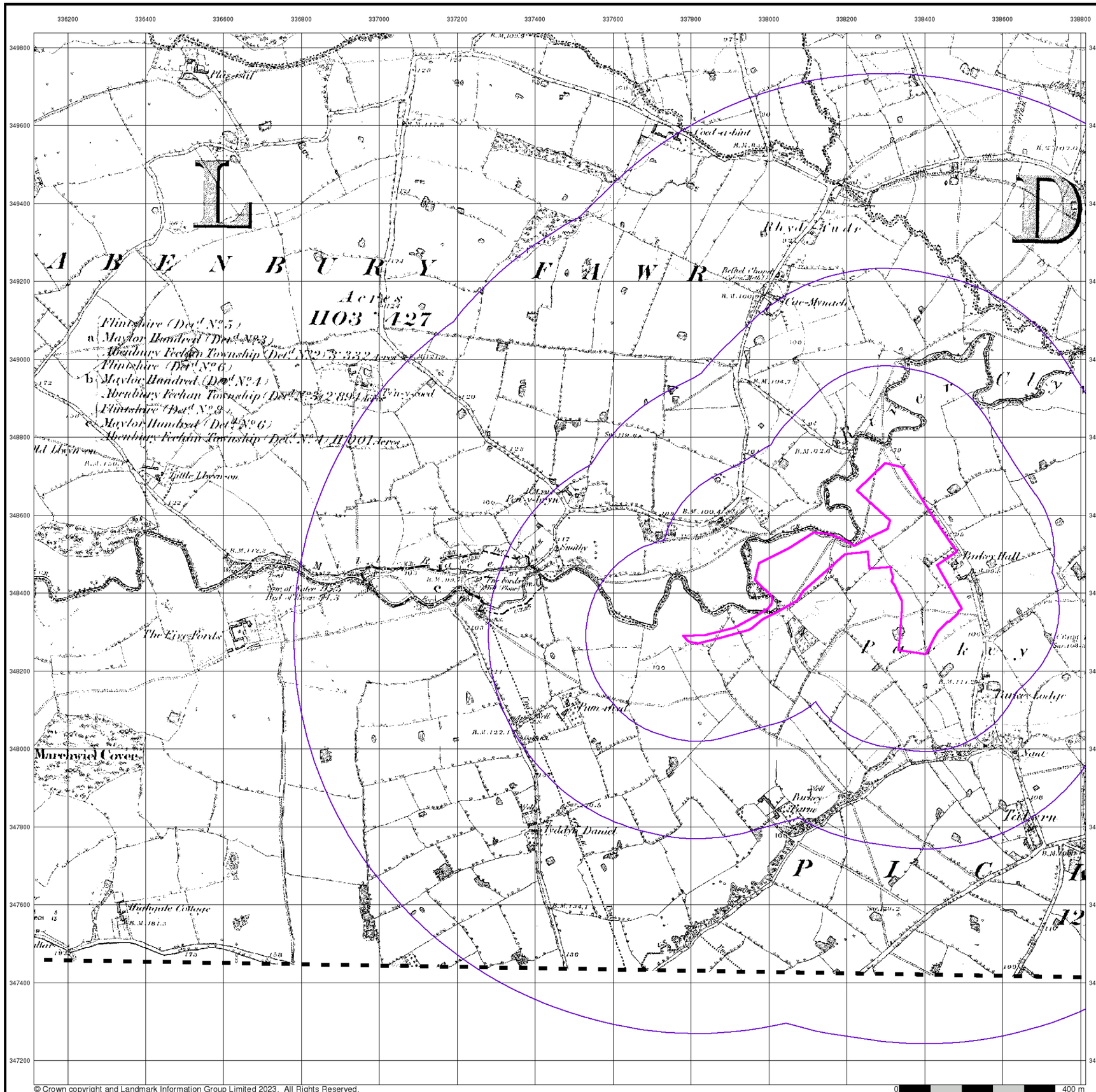
Order Details

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Customer Ref: GSI 2006
National Grid Reference: 337930, 348420
Slice: A
Site Area (Ha): 9.63
Search Buffer (m): 1000

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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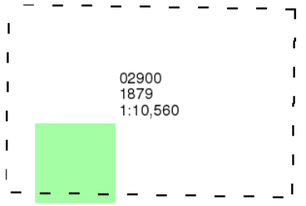
Denbighshire

Published 1879

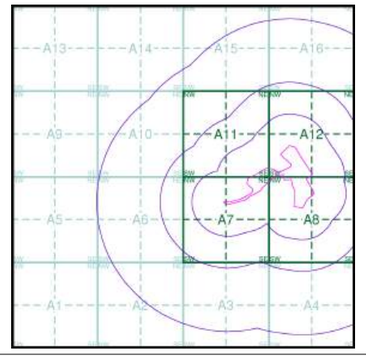
Source map scale - 1:10,560

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



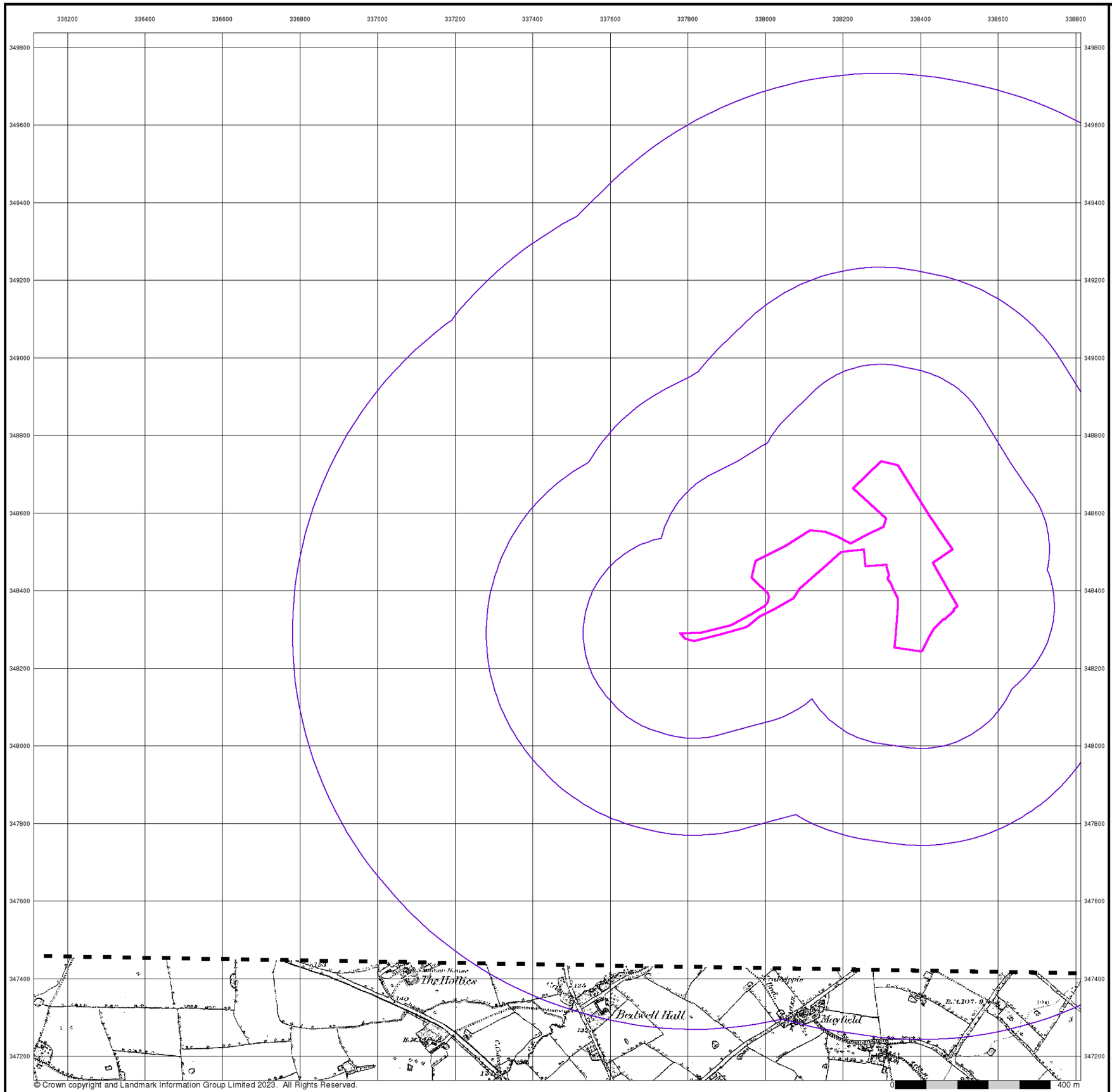
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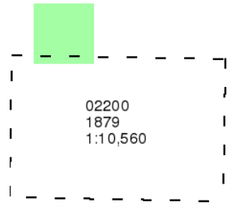
Flintshire

Published 1879

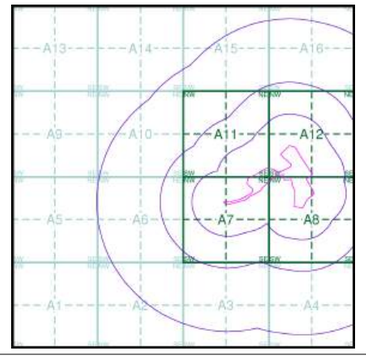
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



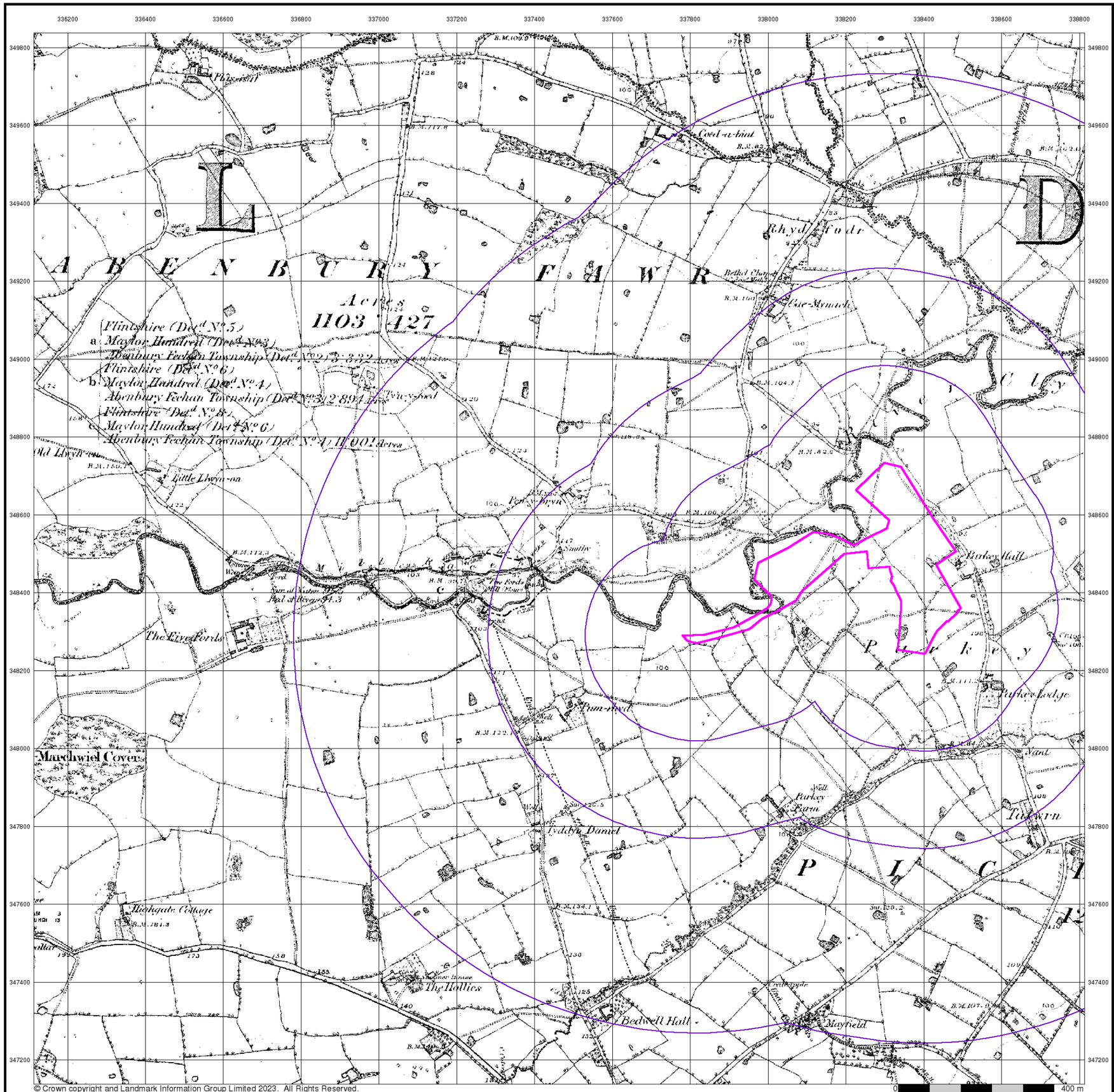
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Cheshire

Published 1881

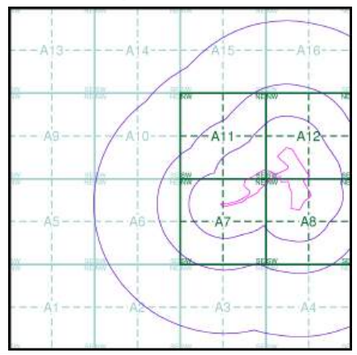
Source map scale - 1:10,560

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)

05900
1881
1:10,560

Historical Map - Slice A



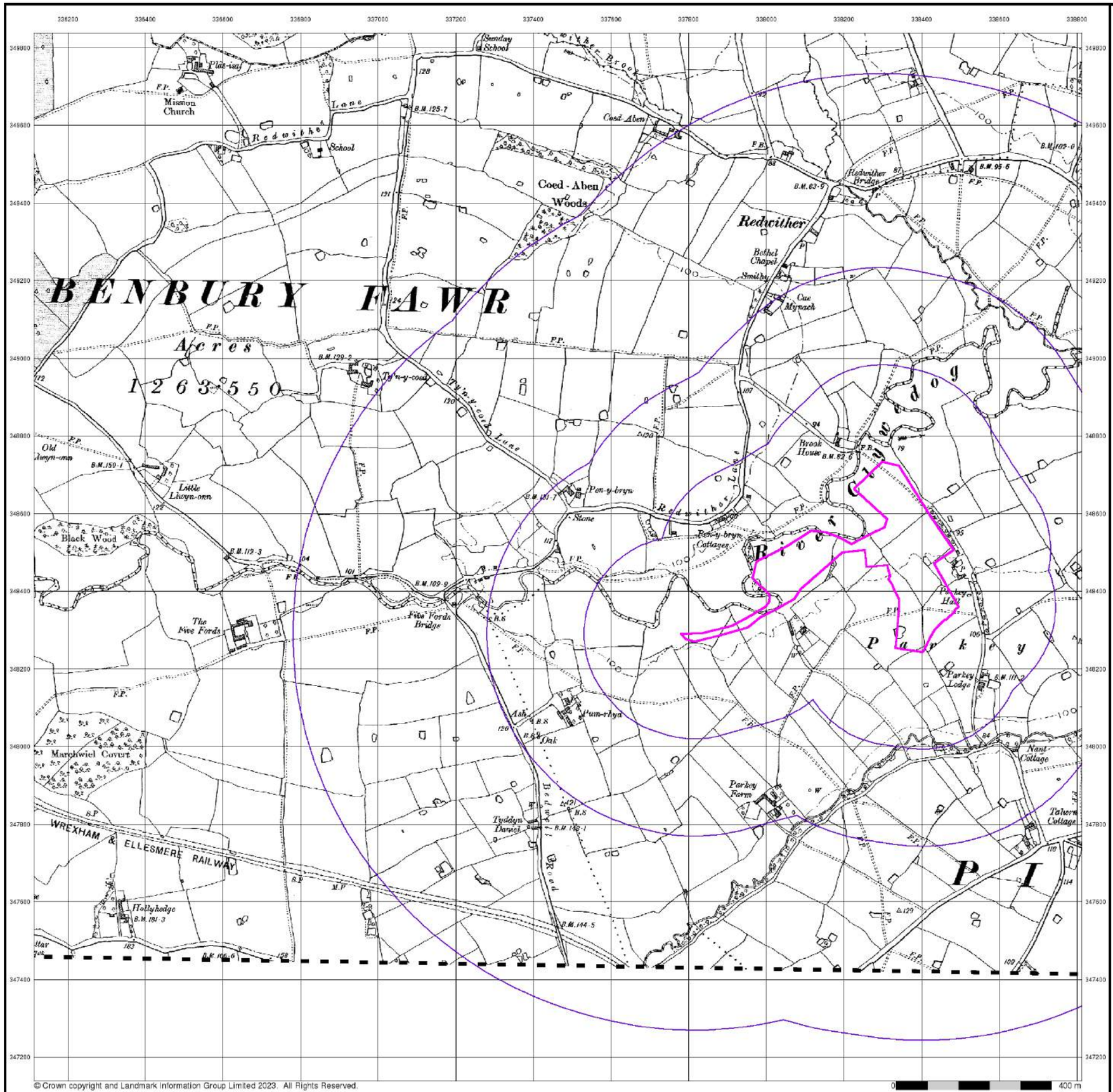
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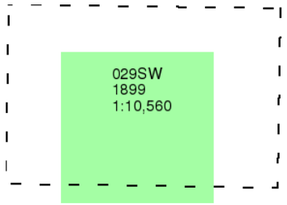
Denbighshire

Published 1899

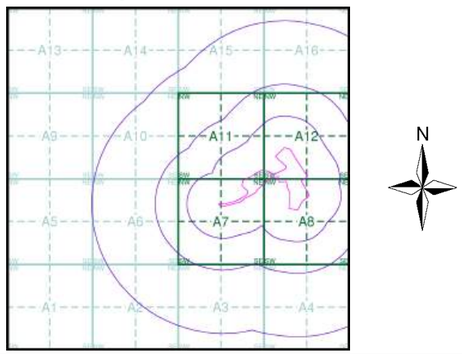
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

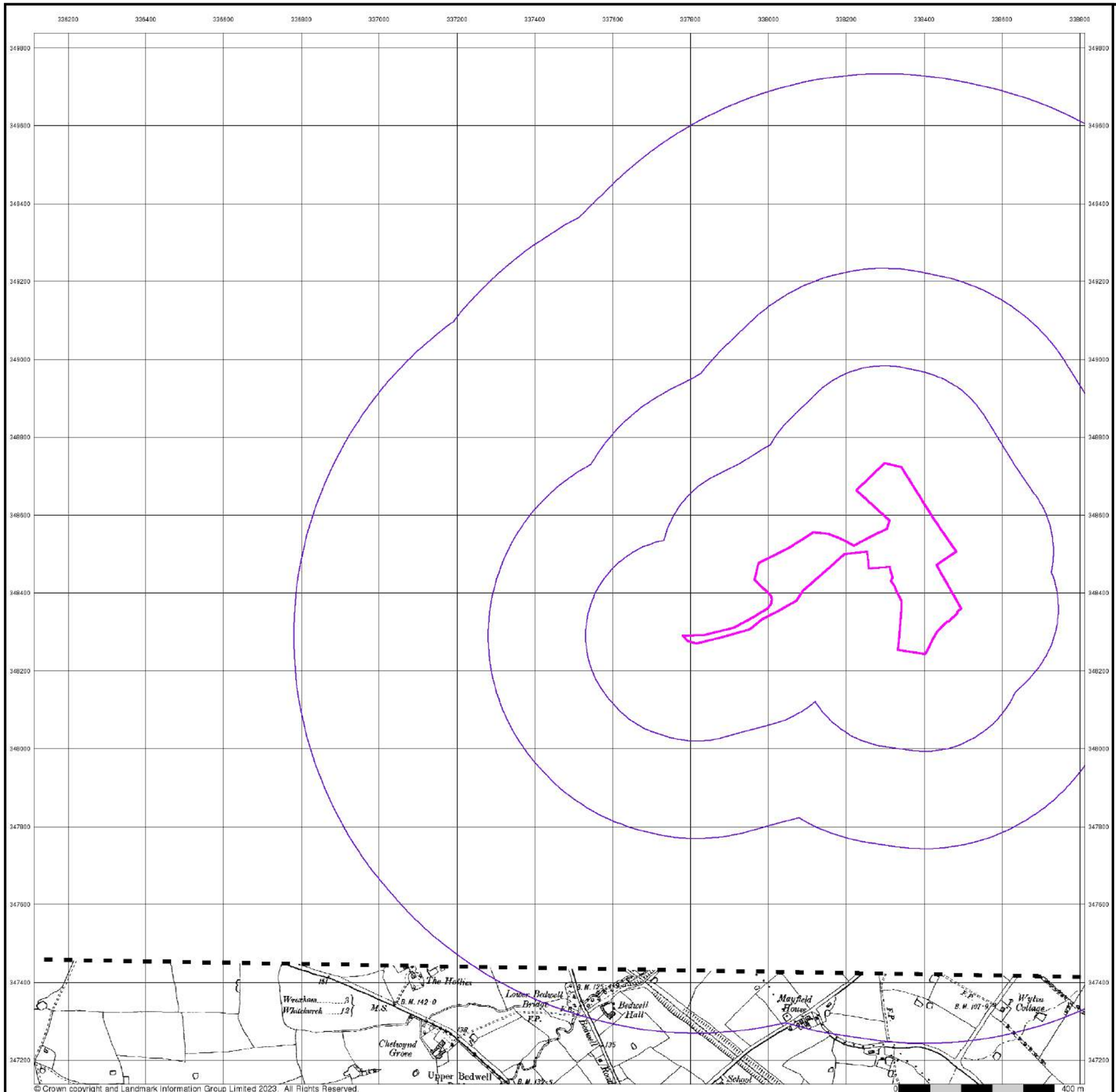


Order Details

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National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
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Site Details

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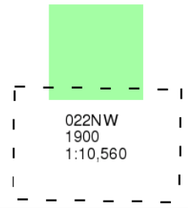
Flintshire

Published 1900

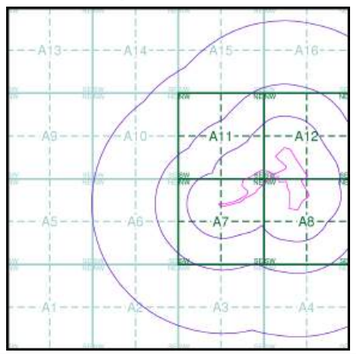
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A

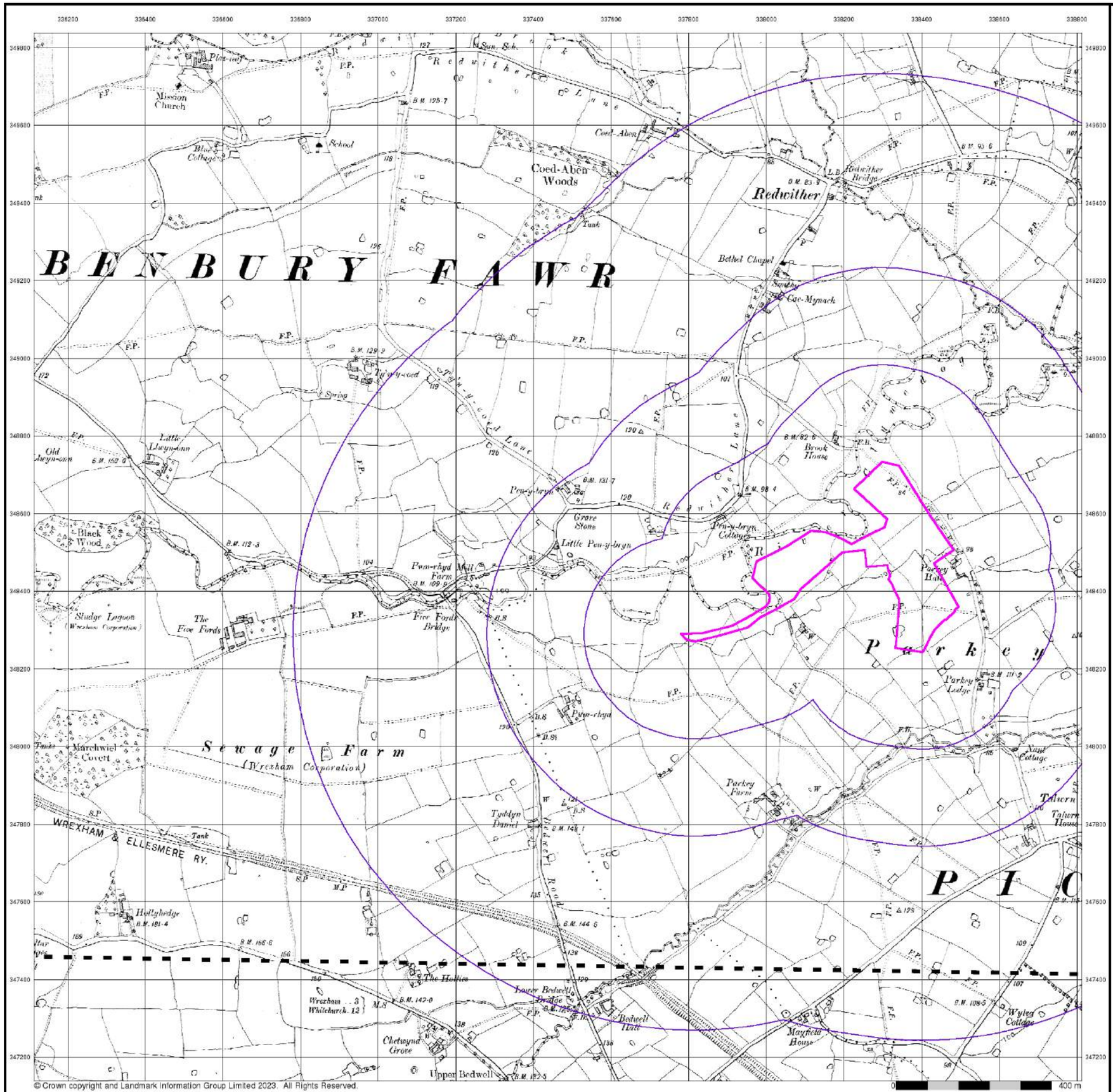


Order Details

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National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT



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Denbighshire

Published 1914

Source map scale - 1:10,560

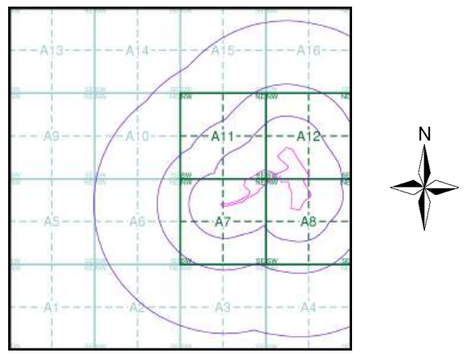
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Map Name(s) and Date(s)

029SW
1914
1:10,560

036NW
1914
1:10,560

Historical Map - Slice A

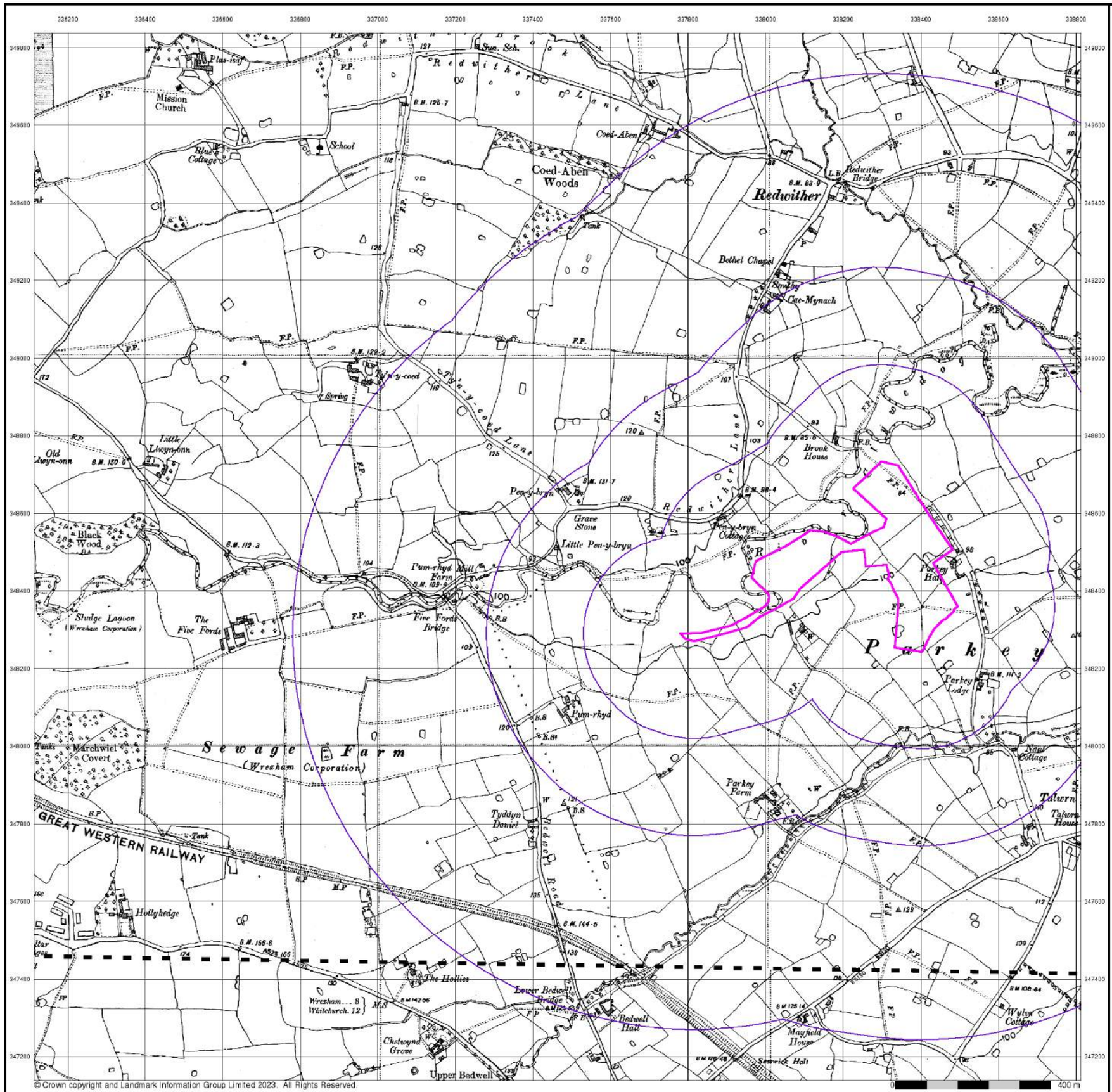


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National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
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Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT



GEOCON

Denbighshire

Published 1938 - 1954

Source map scale - 1:10,560

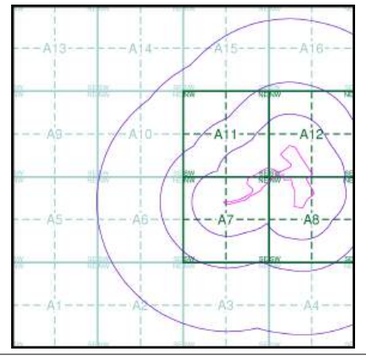
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Map Name(s) and Date(s)

029SW
1938
1:10,560

036NW
1954
1:10,560

Historical Map - Slice A

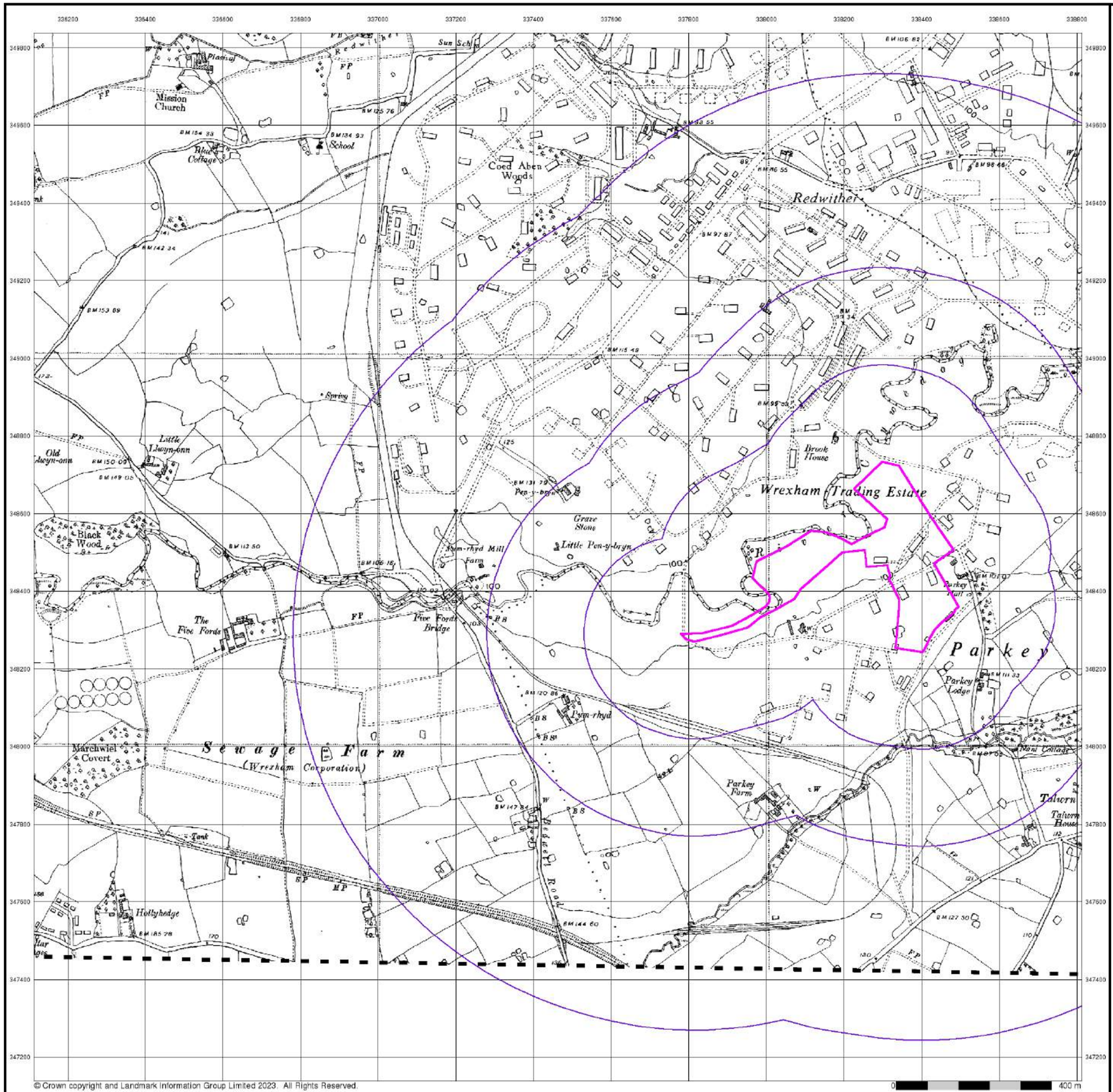


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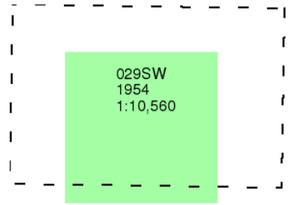
Denbighshire

Published 1954

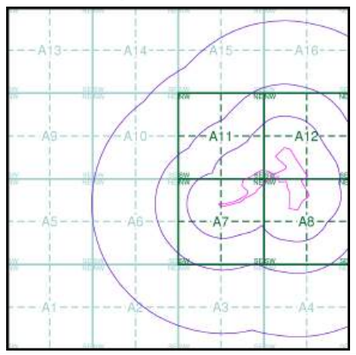
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Map Name(s) and Date(s)



Historical Map - Slice A

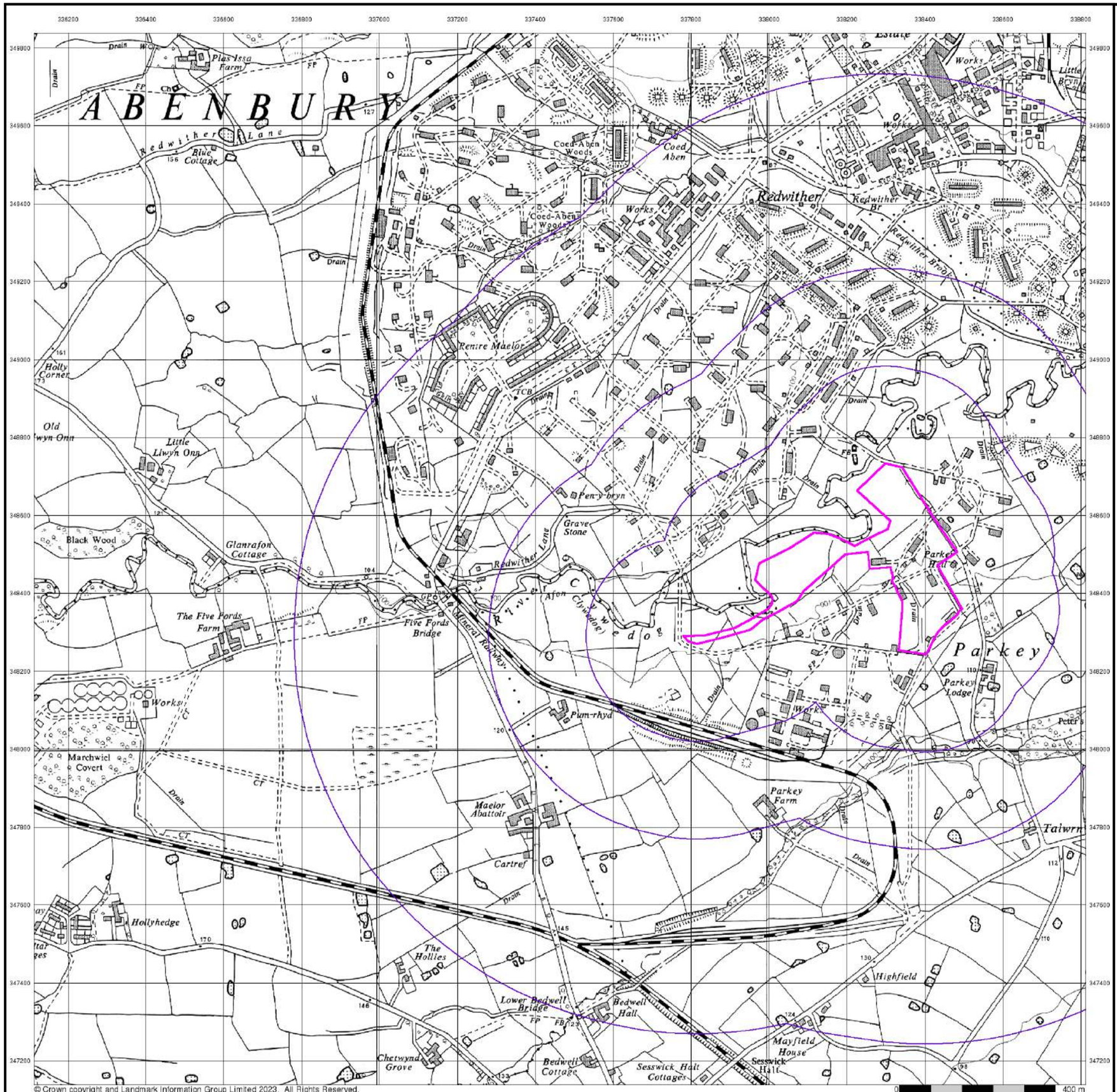


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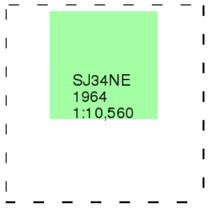
Ordnance Survey Plan

Published 1964

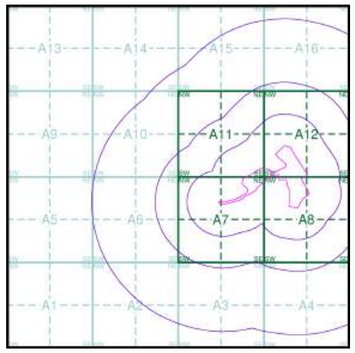
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

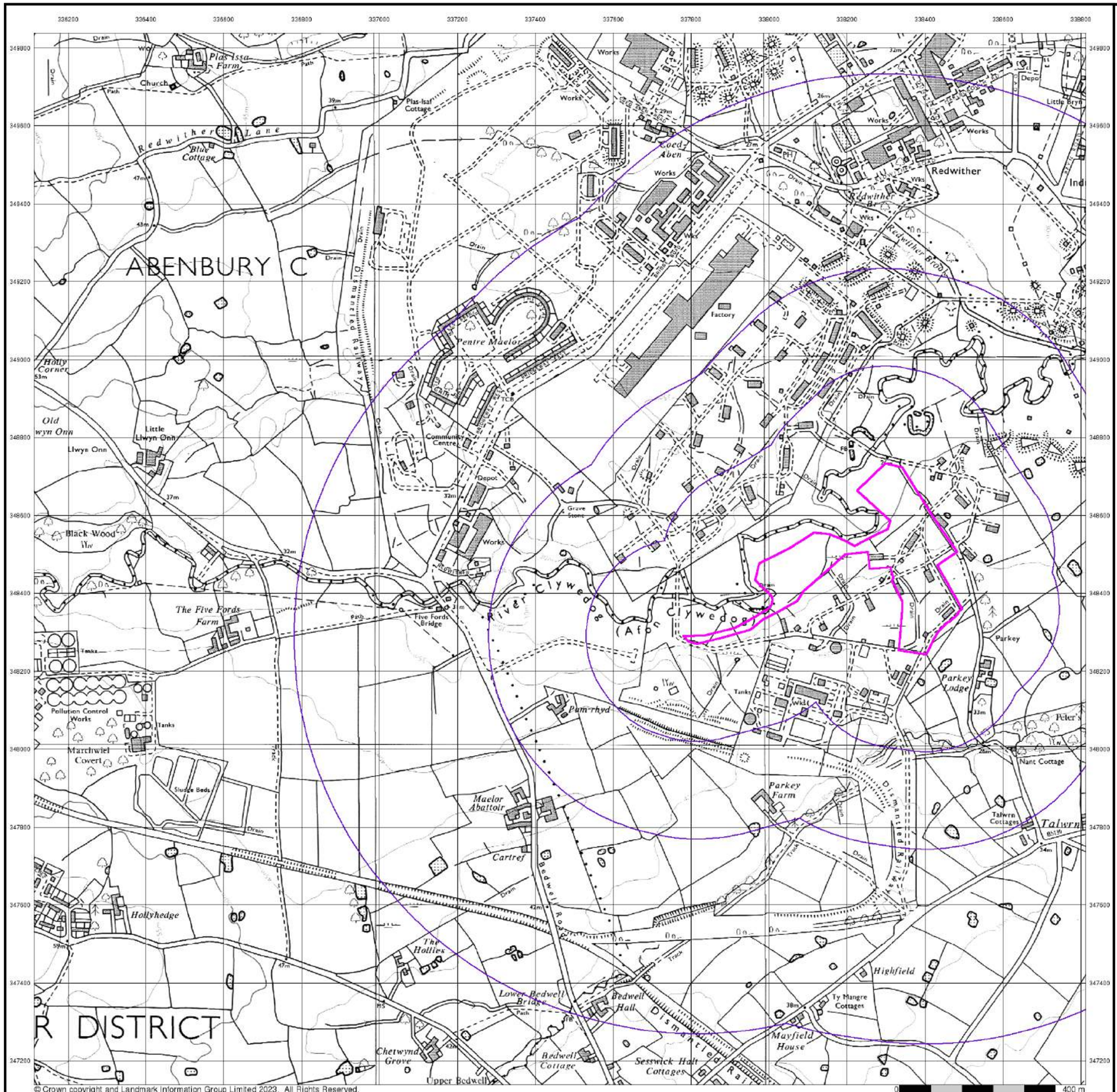
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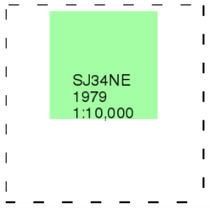
Ordnance Survey Plan

Published 1979

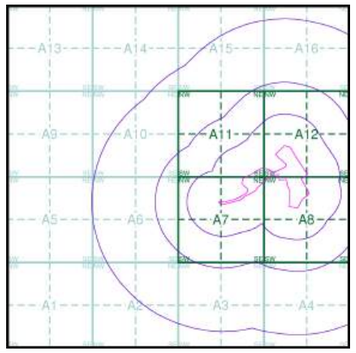
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

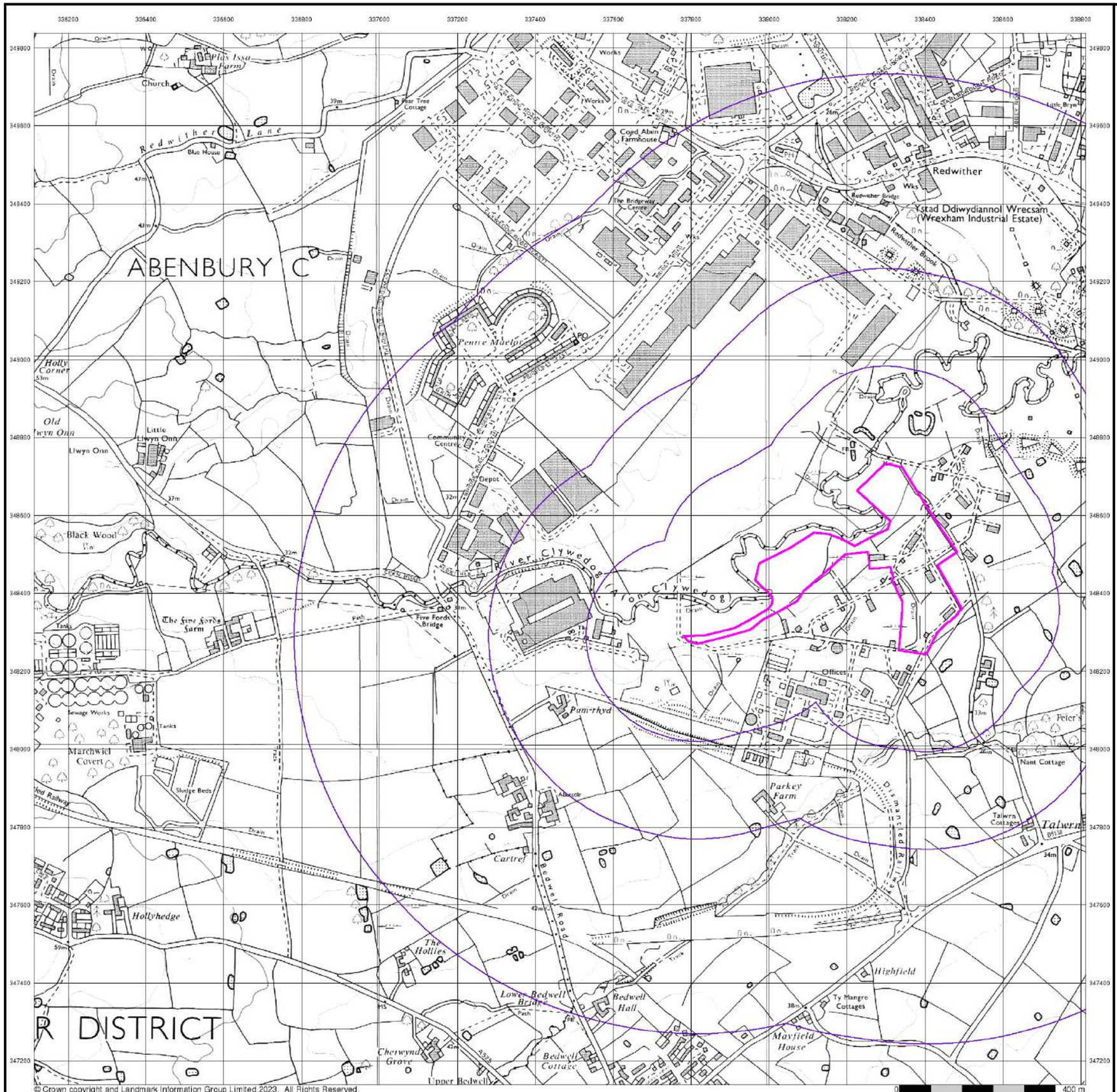
Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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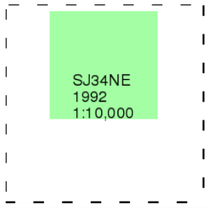
Ordnance Survey Plan

Published 1992

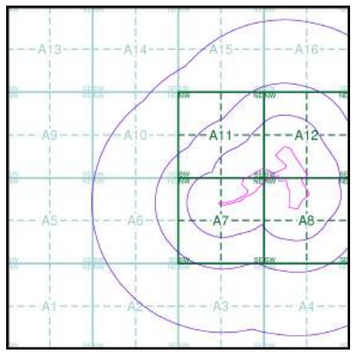
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



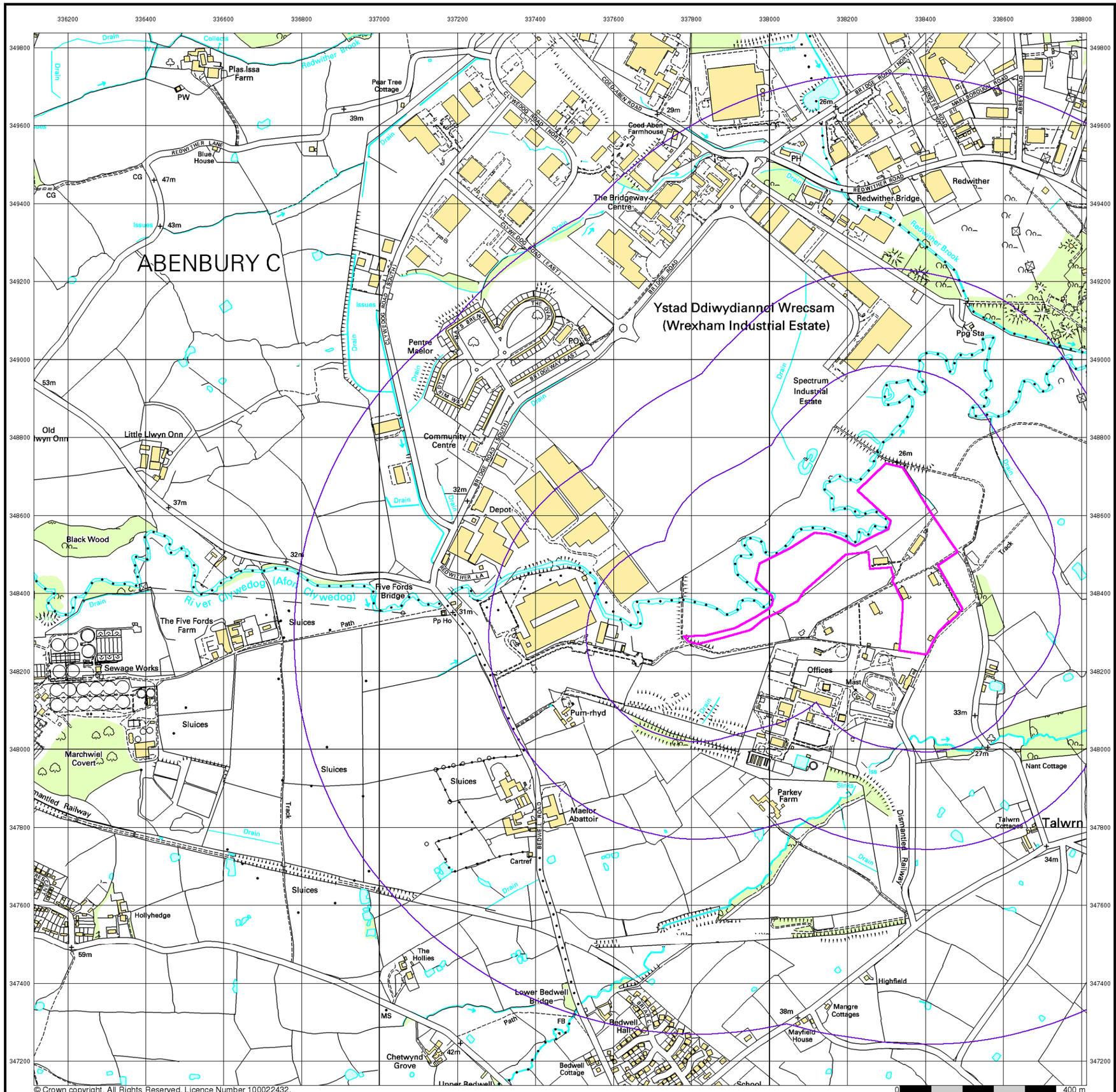
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10k Raster Mapping

Published 2000

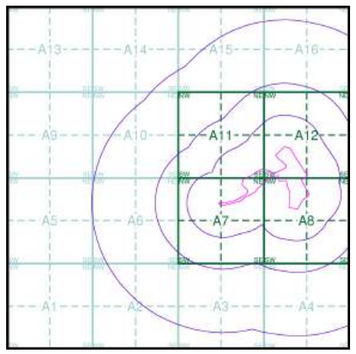
Source map scale - 1:10,000

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)

SJ34NE
2000
1:10,000

Historical Map - Slice A



Order Details

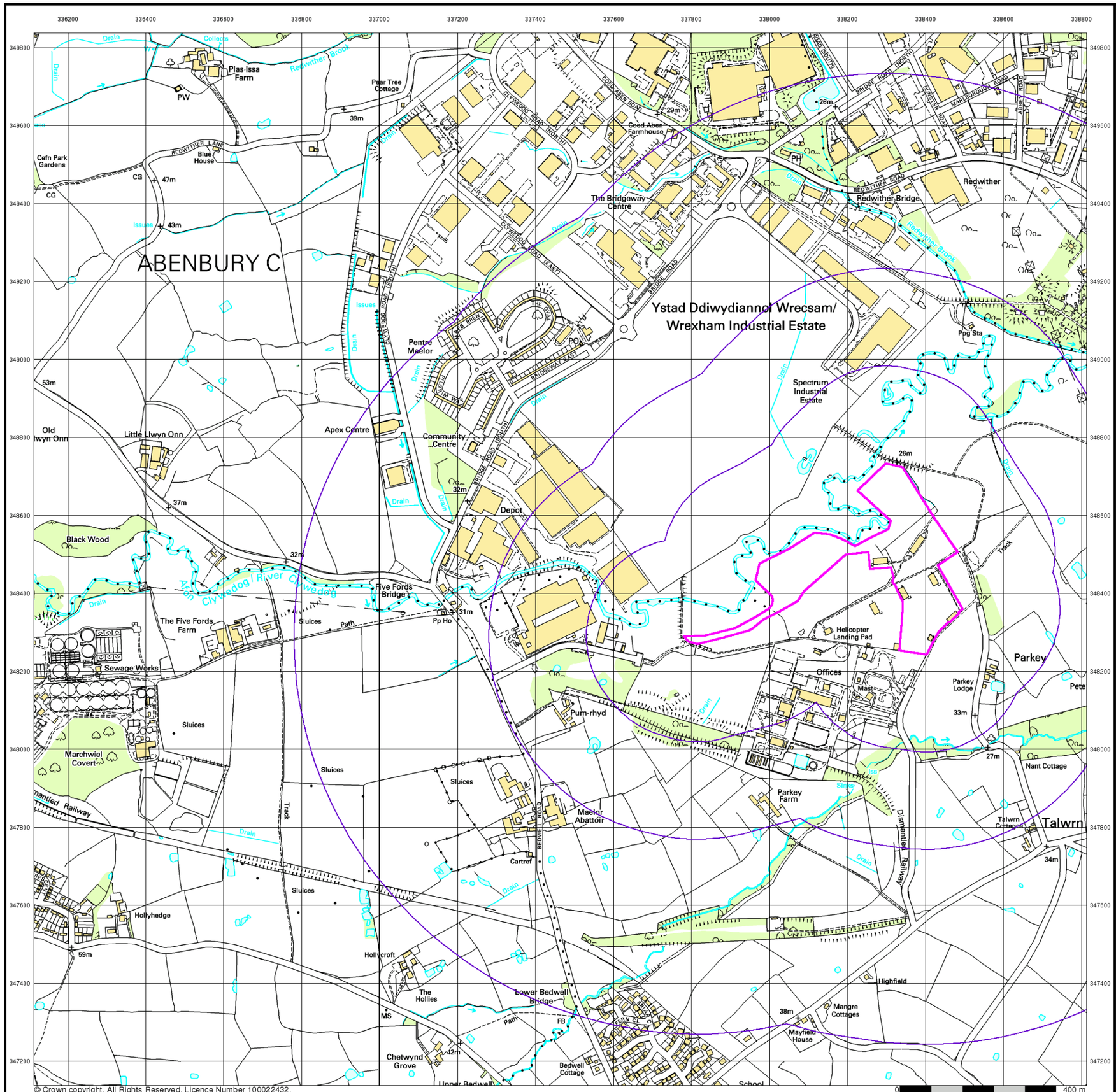
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10k Raster Mapping

Published 2006

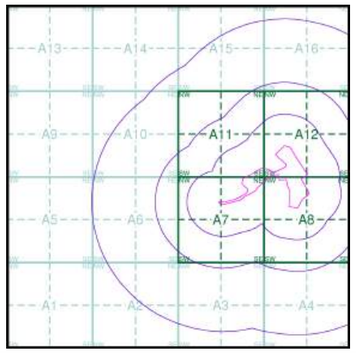
Source map scale - 1:10,000

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)

SJ34NE
2006
1:10,000

Historical Map - Slice A



N

Order Details

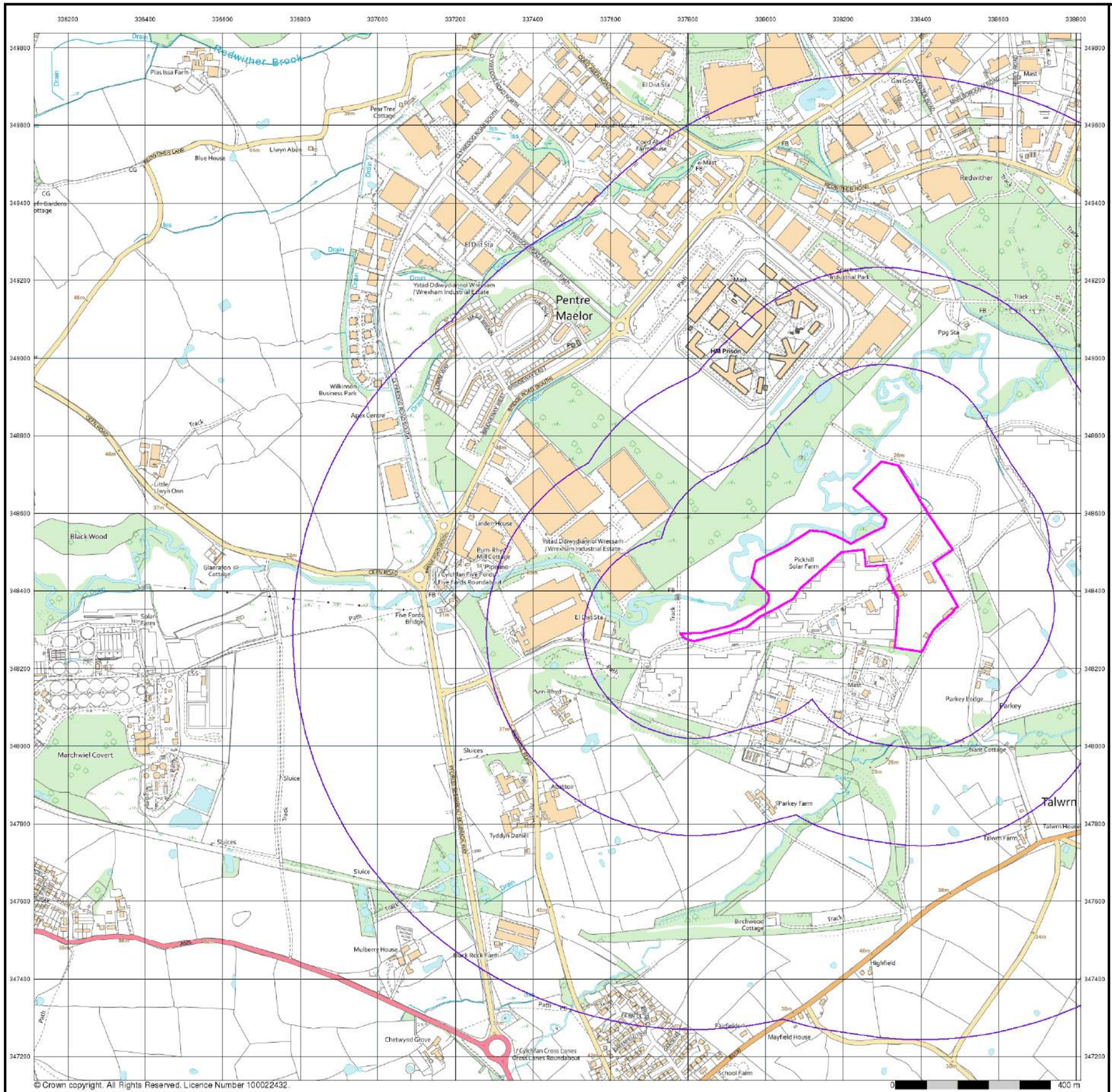
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VectorMap Local

Published 2023

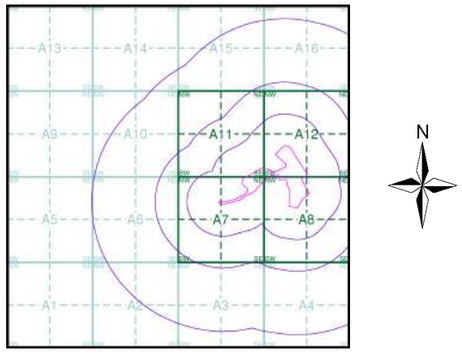
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	1000

Site Details

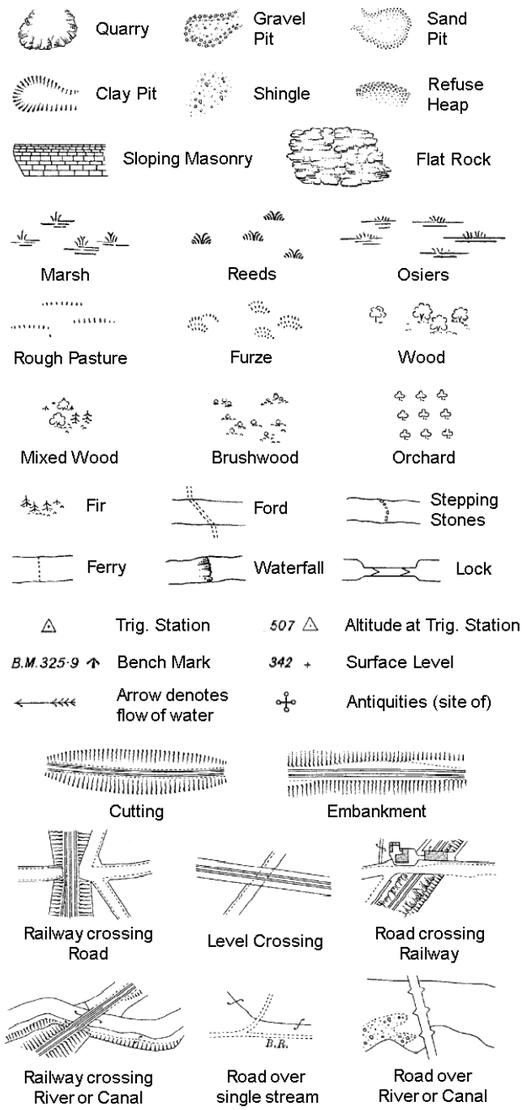
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Historical Mapping Legends

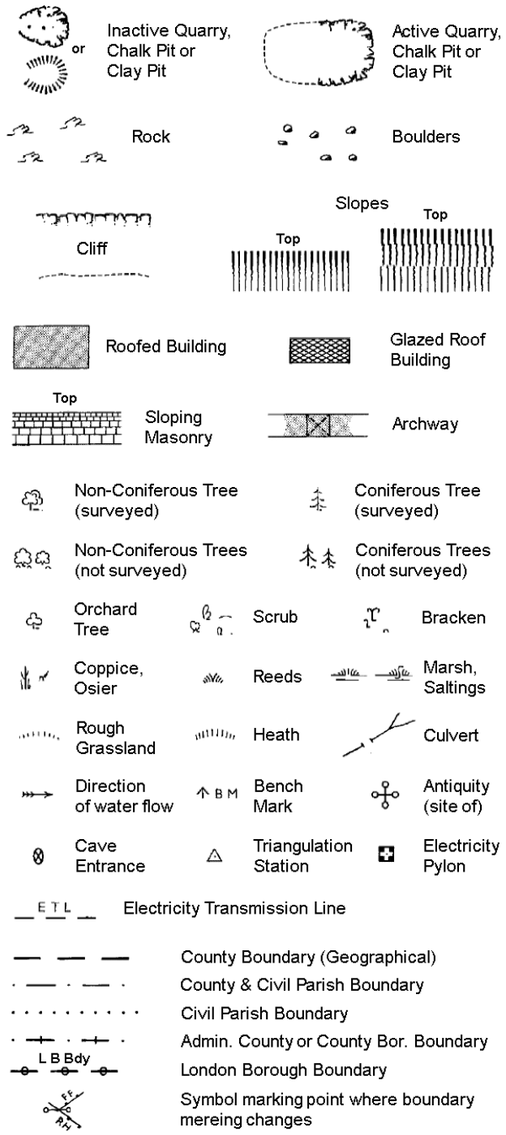
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

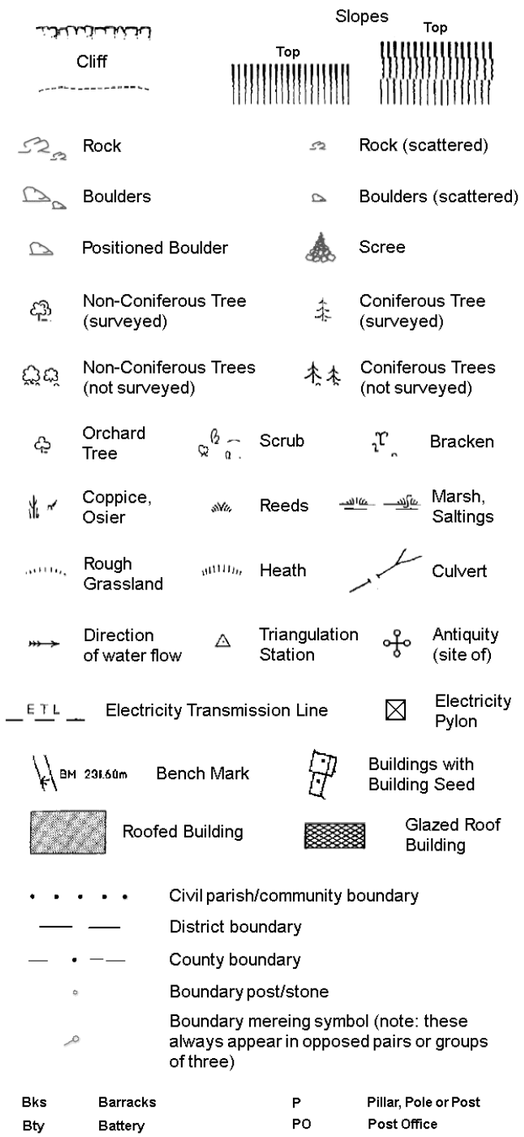
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

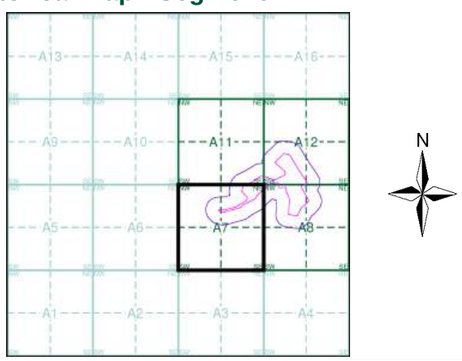
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1961 - 1987	6
Additional SIMs	1:2,500	1982 - 1992	7
Additional SIMs	1:2,500	1984	8
Additional SIMs	1:2,500	1989	9
Large-Scale National Grid Data	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1994	11
Historical Aerial Photography	1:2,500	2003	12

Historical Map - Segment A7



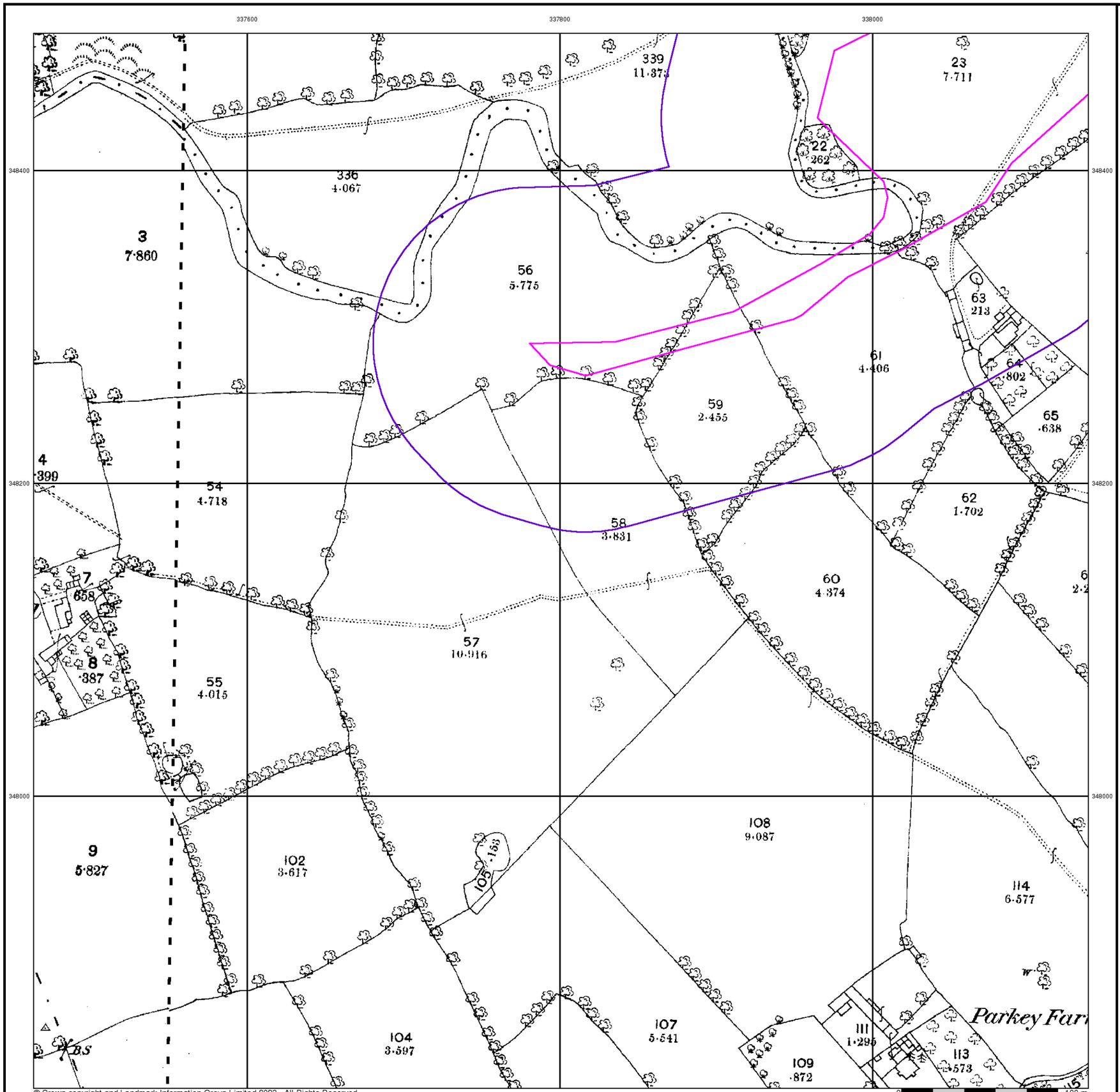
Order Details

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Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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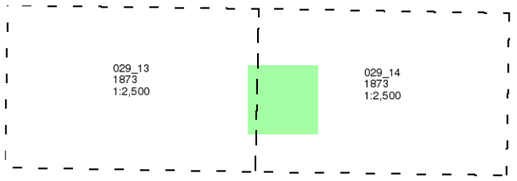
Denbighshire

Published 1873

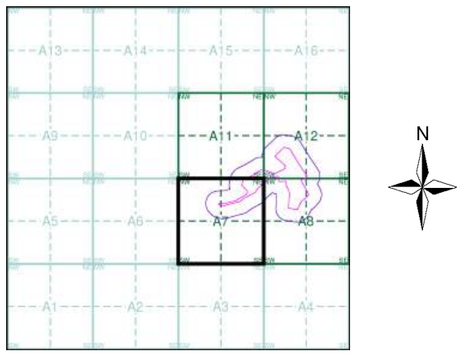
Source map scale - 1:2,500

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 A7



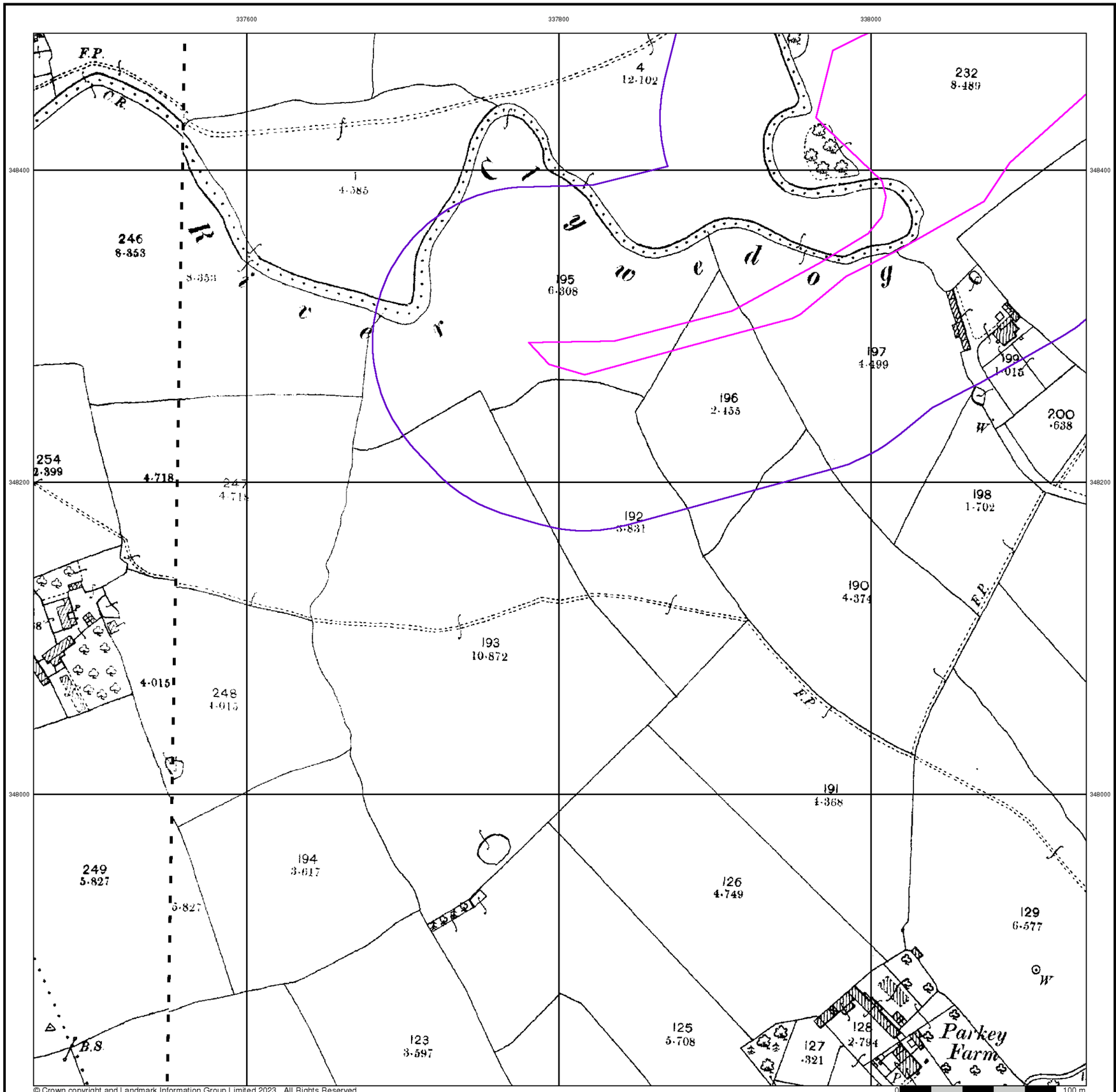
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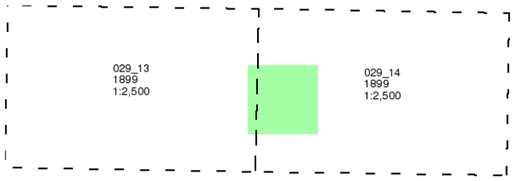
Denbighshire

Published 1899

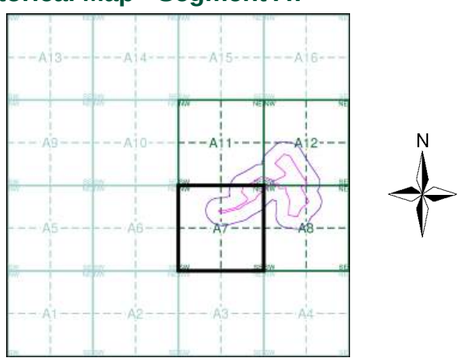
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



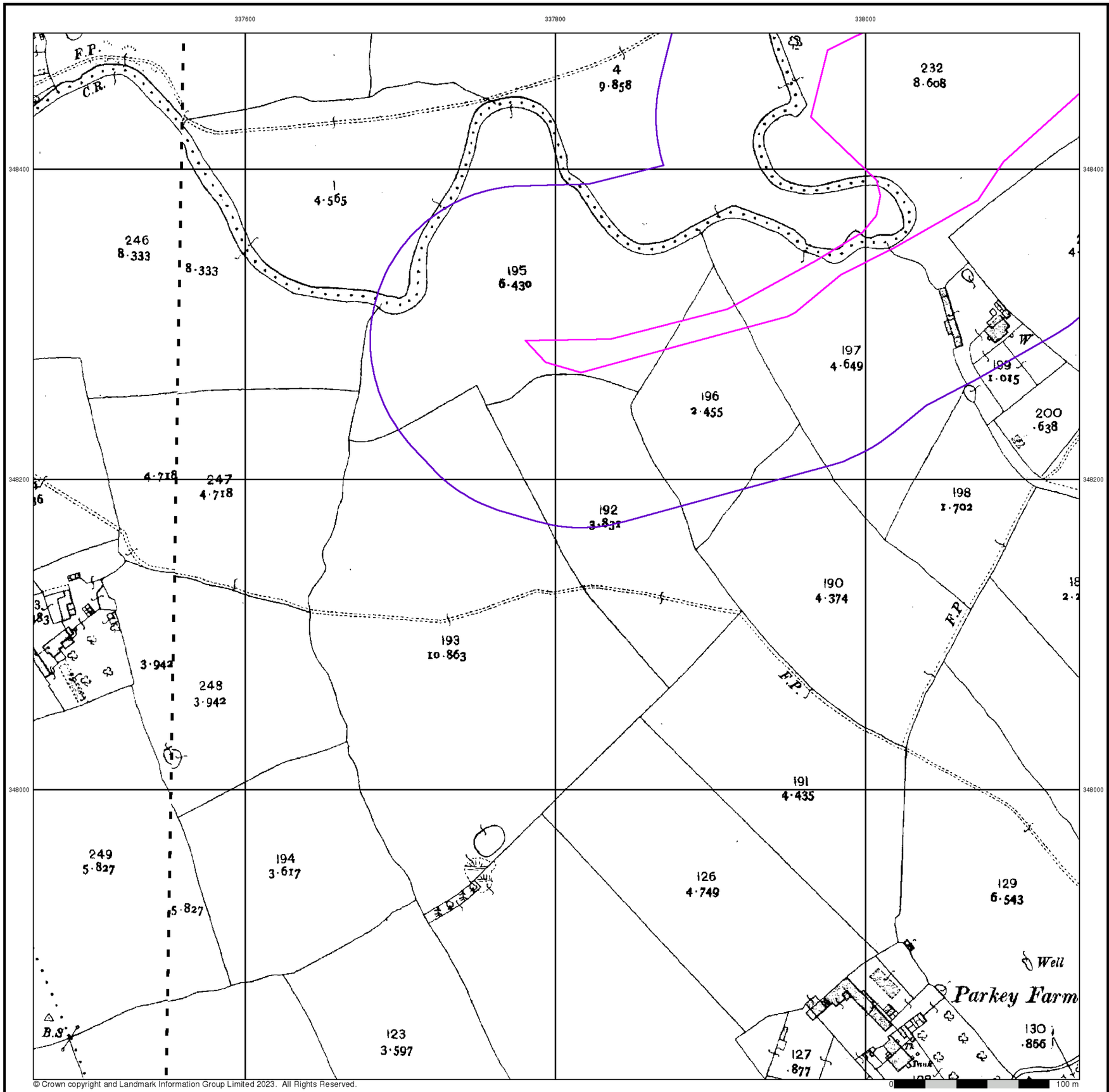
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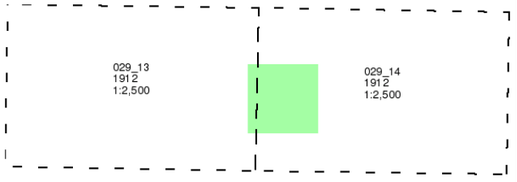
Denbighshire

Published 1912

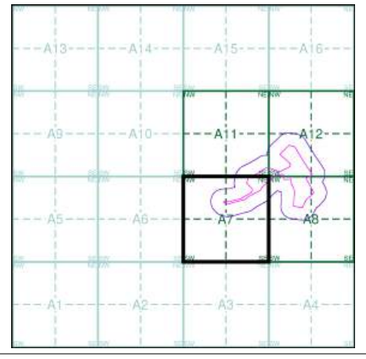
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



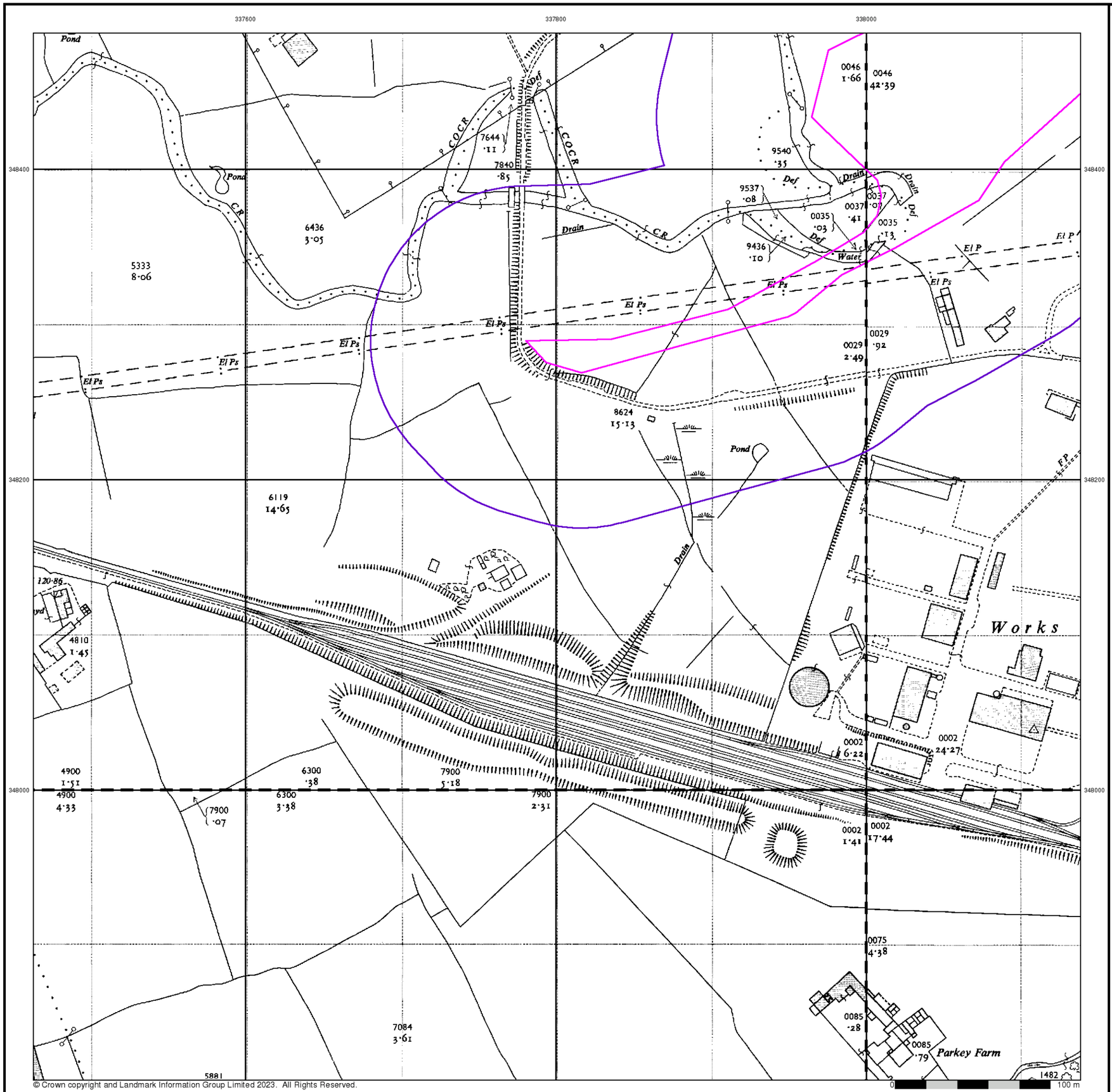
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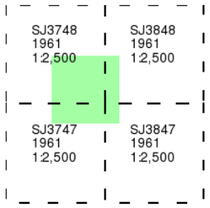
Ordnance Survey Plan

Published 1961

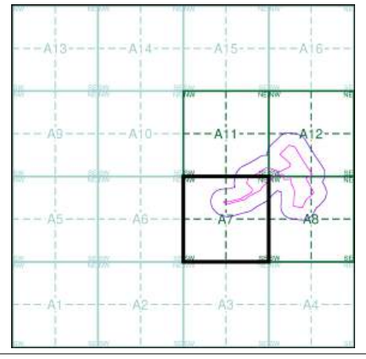
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



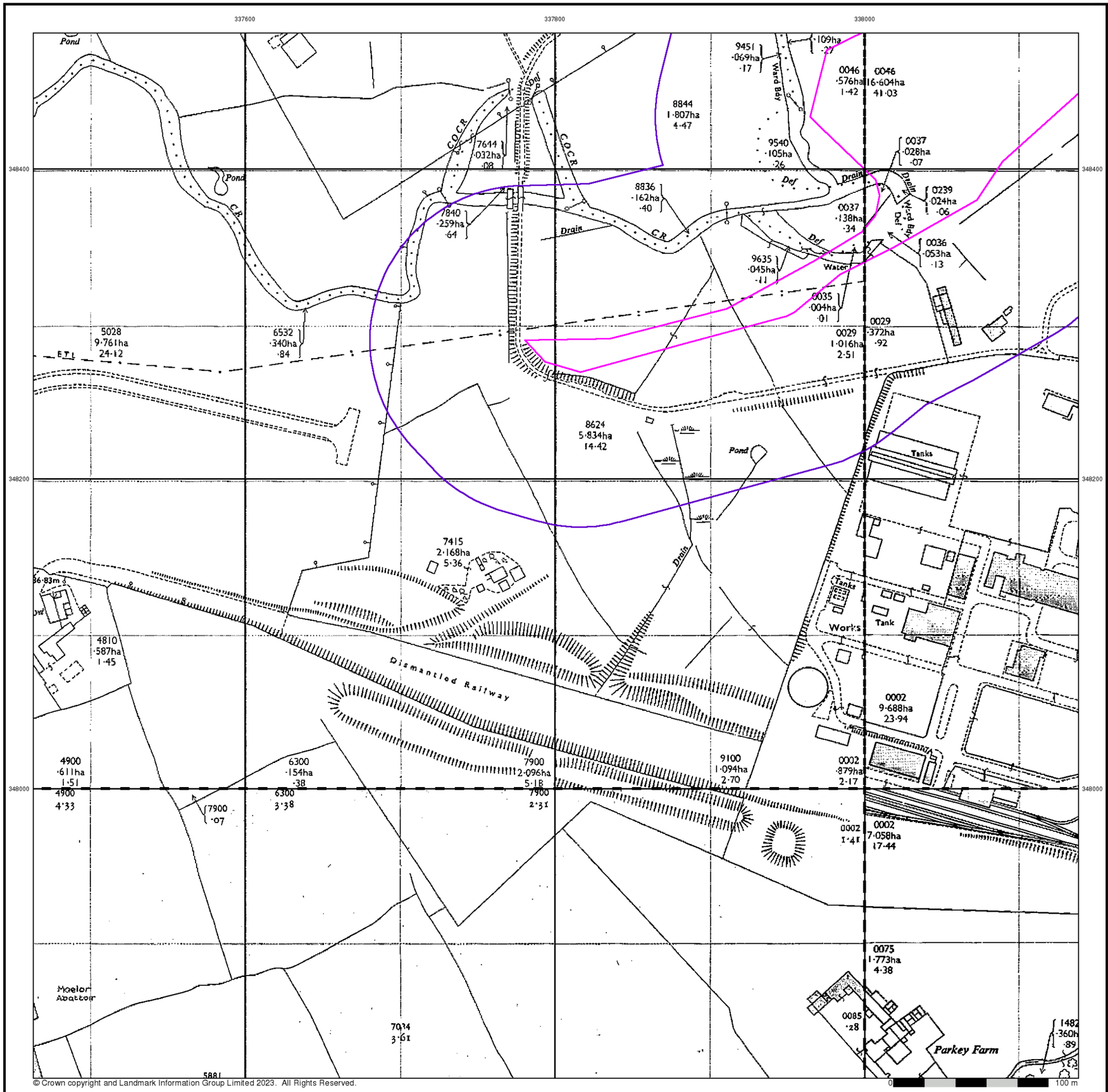
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Additional SIMs

Published 1961 - 1987

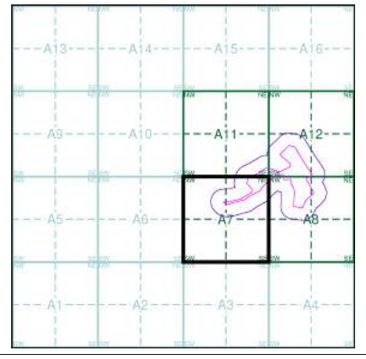
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3748 1961 1:2,500	SJ3848 1961 1:2,500
SJ3747 1987 1:2,500	SJ3847 1961 1:2,500

Historical Map - Segment A7



Order Details

Order Number:	325490765_1_1
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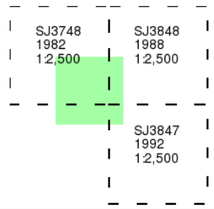
Additional SIMs

Published 1982 - 1992

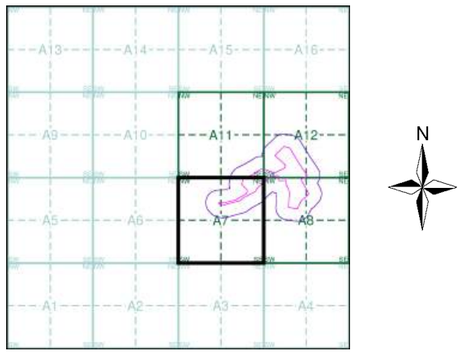
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT



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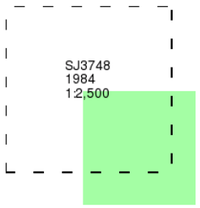
Additional SIMs

Published 1984

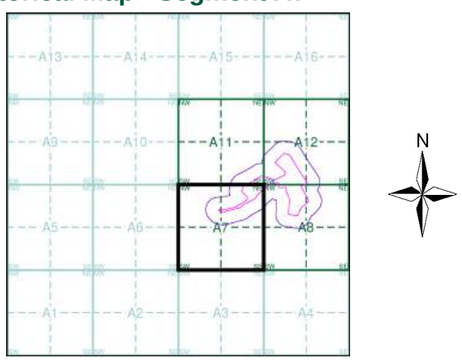
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



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Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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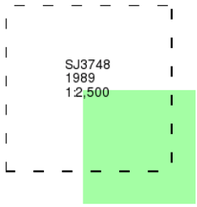
Additional SIMs

Published 1989

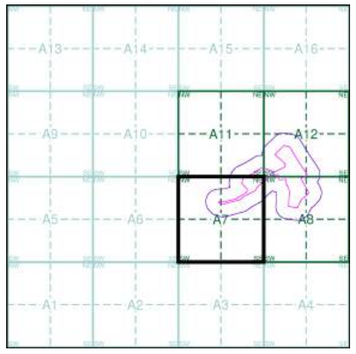
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



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Large-Scale National Grid Data

Published 1992

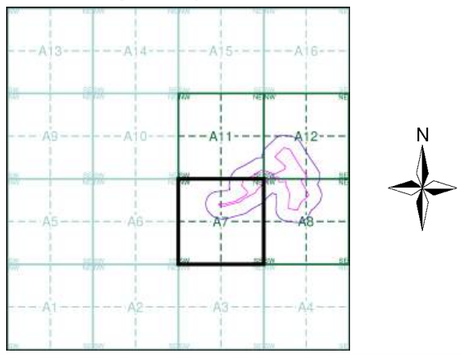
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3748 1992 1:2,500	SJ3848 1992 1:2,500
SJ3747 1992 1:2,500	SJ3847 1992 1:2,500

Historical Map - Segment A7



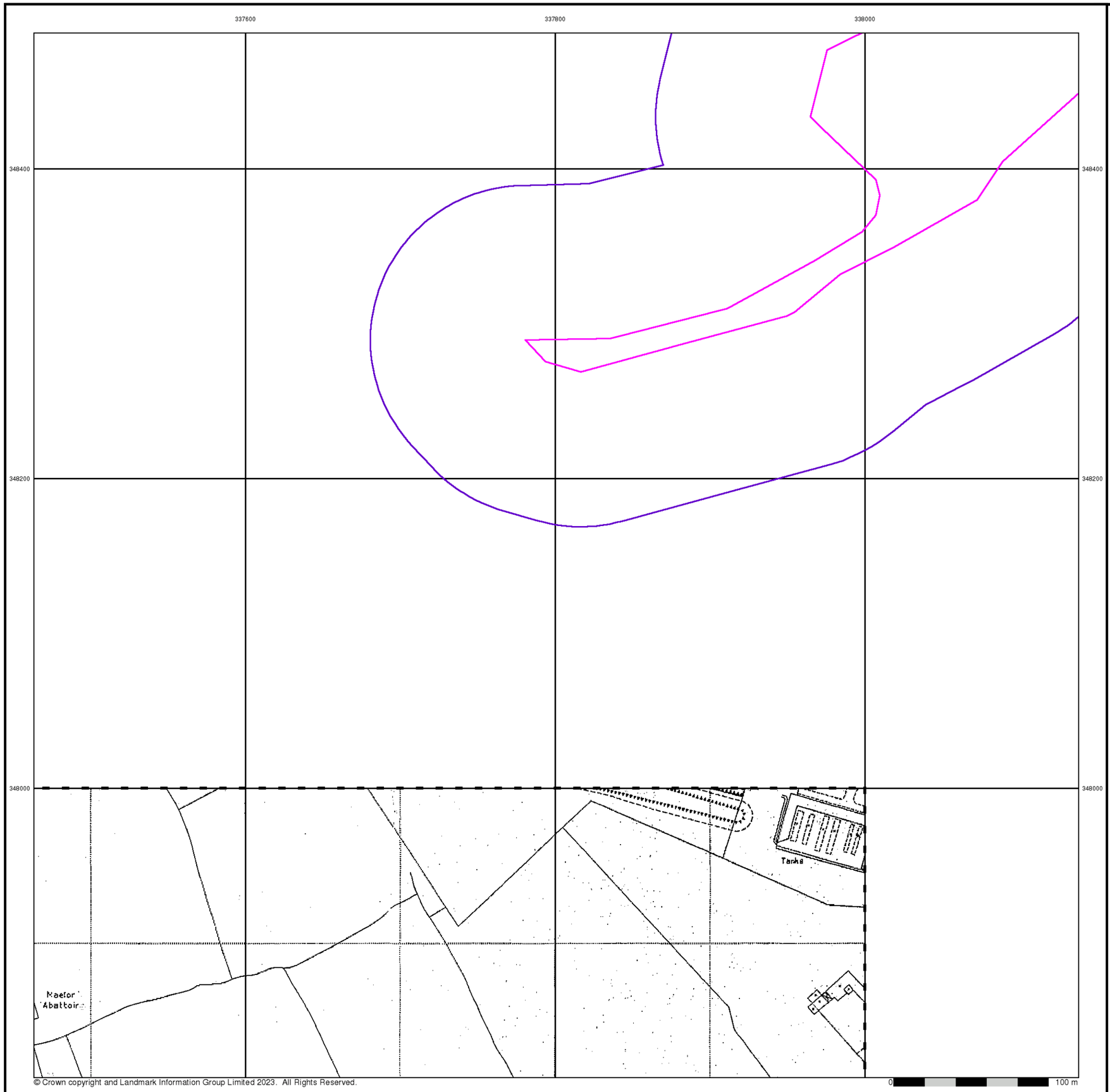
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0 100 m

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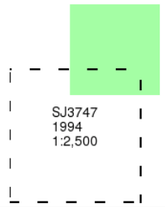
Large-Scale National Grid Data

Published 1994

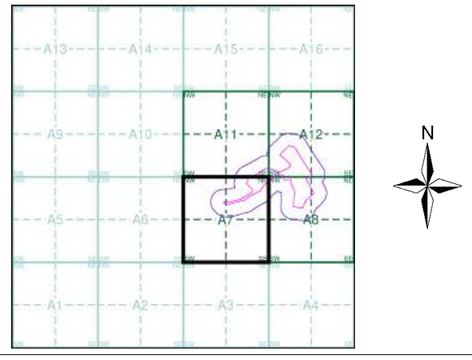
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



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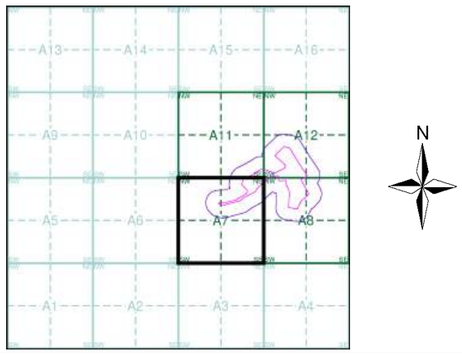
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Historical Aerial Photography

Published 2003

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 A7



Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

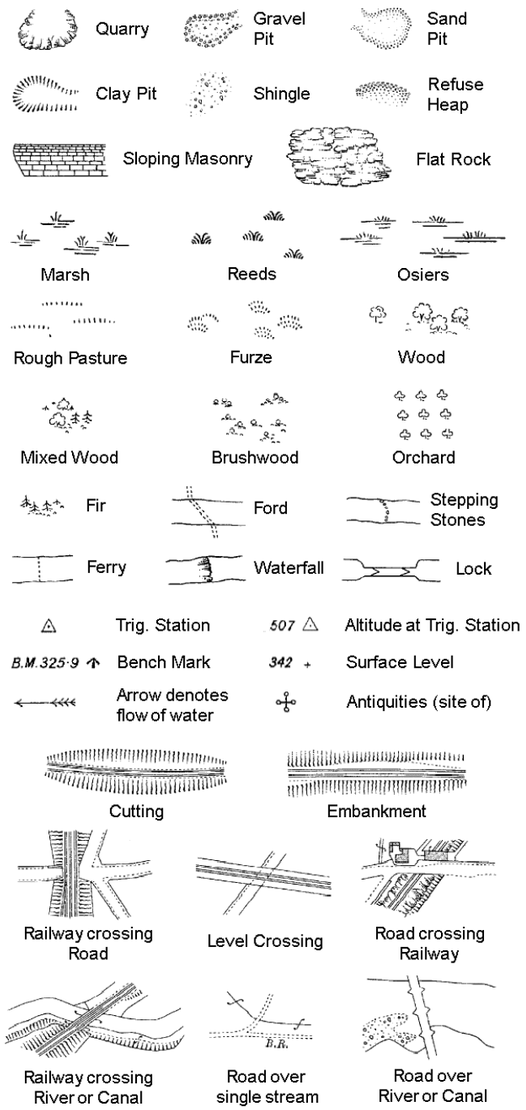
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Historical Mapping Legends

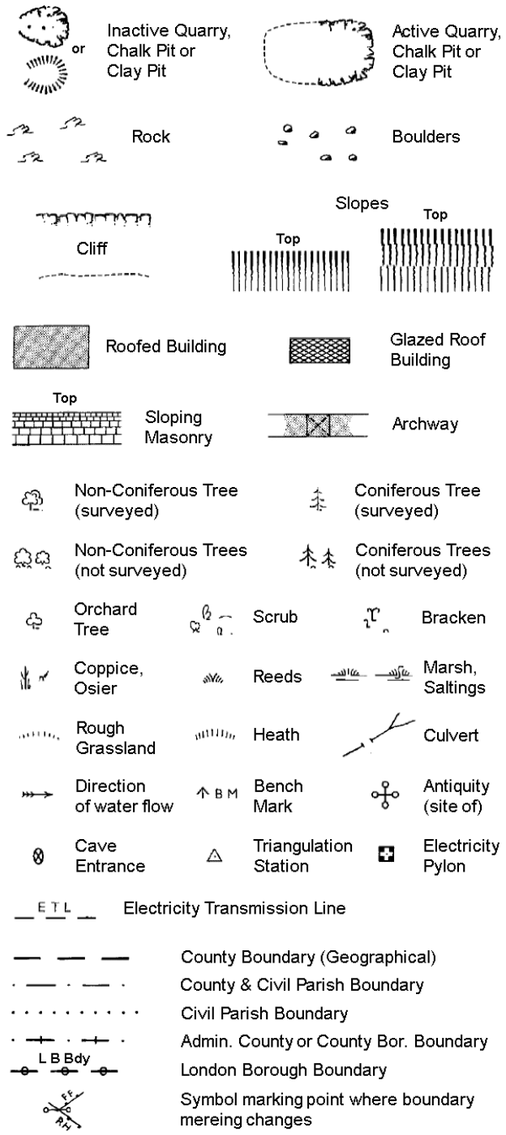
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

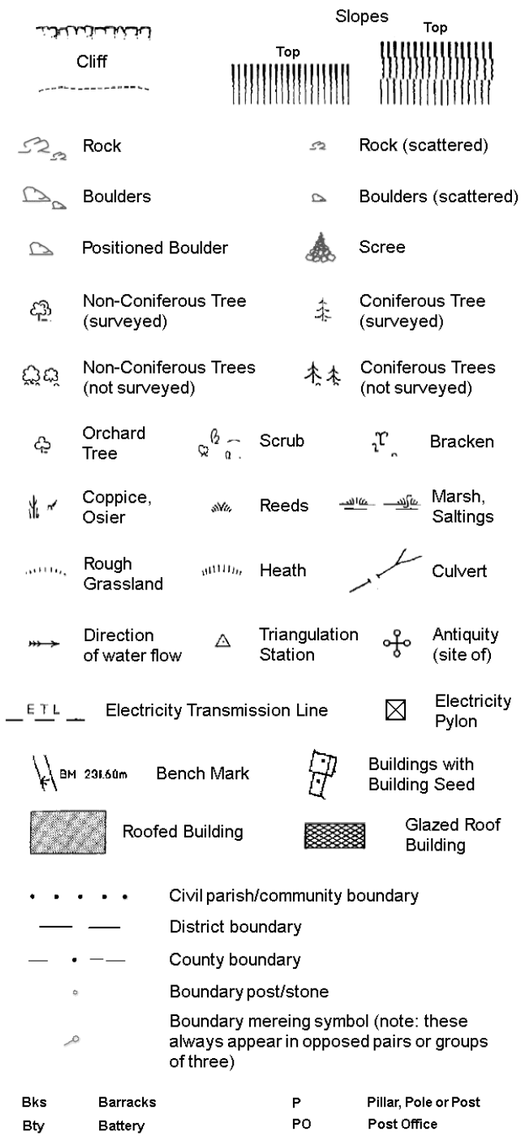
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

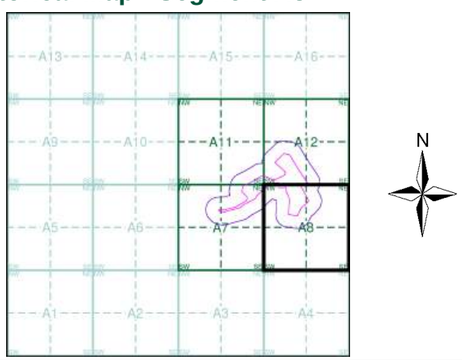
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1961	6
Additional SIMs	1:2,500	1988 - 1992	7
Large-Scale National Grid Data	1:2,500	1992	8
Historical Aerial Photography	1:2,500	2003	9

Historical Map - Segment A8



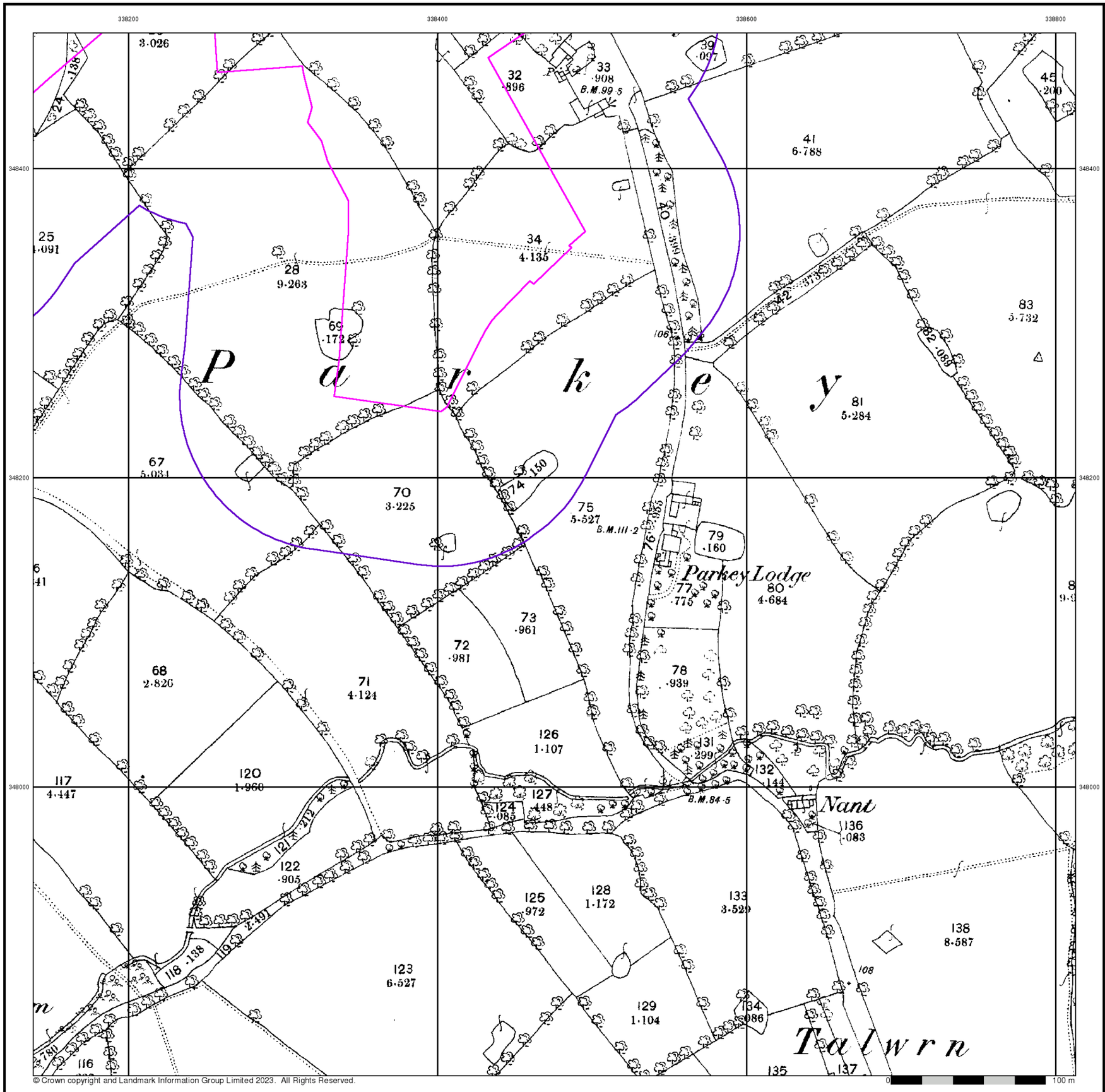
Order Details

Order Number: 325490765_1_1
Customer Ref: GSI 2006
National Grid Reference: 337930, 348420
Slice: A
Site Area (Ha): 9.63
Search Buffer (m): 100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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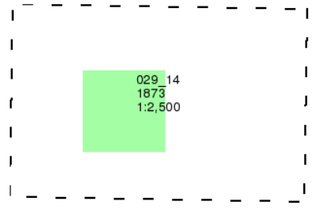
Denbighshire

Published 1873

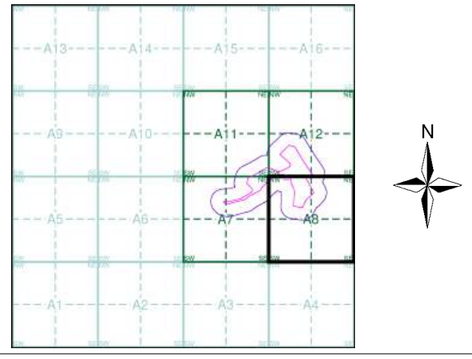
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



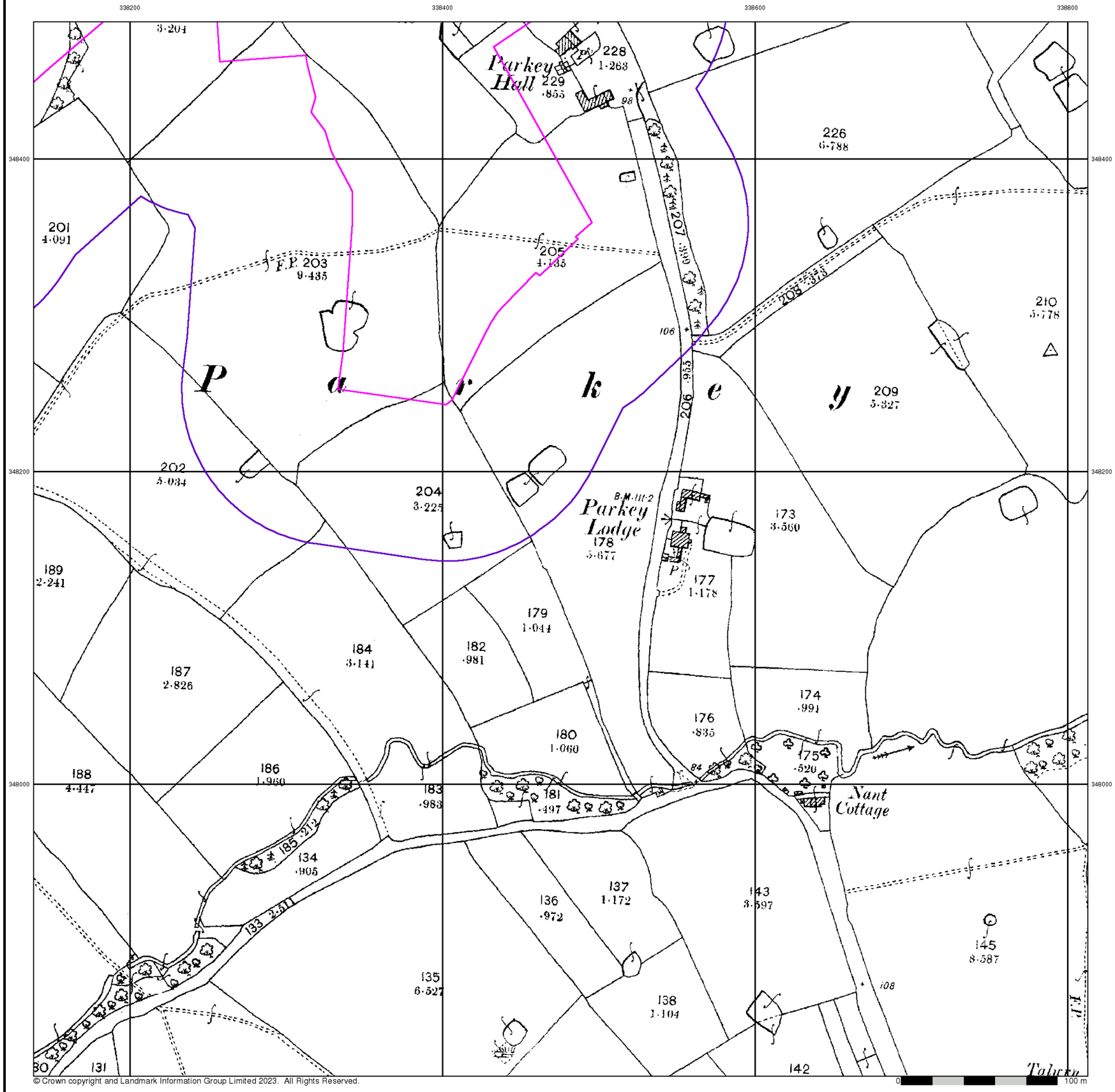
Order Details

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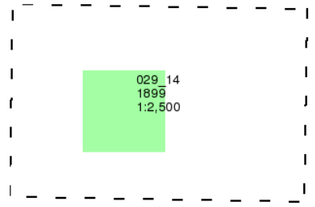
Denbighshire

Published 1899

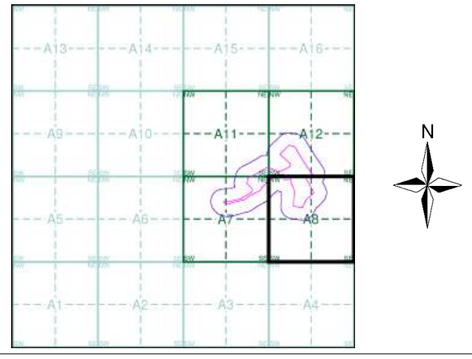
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



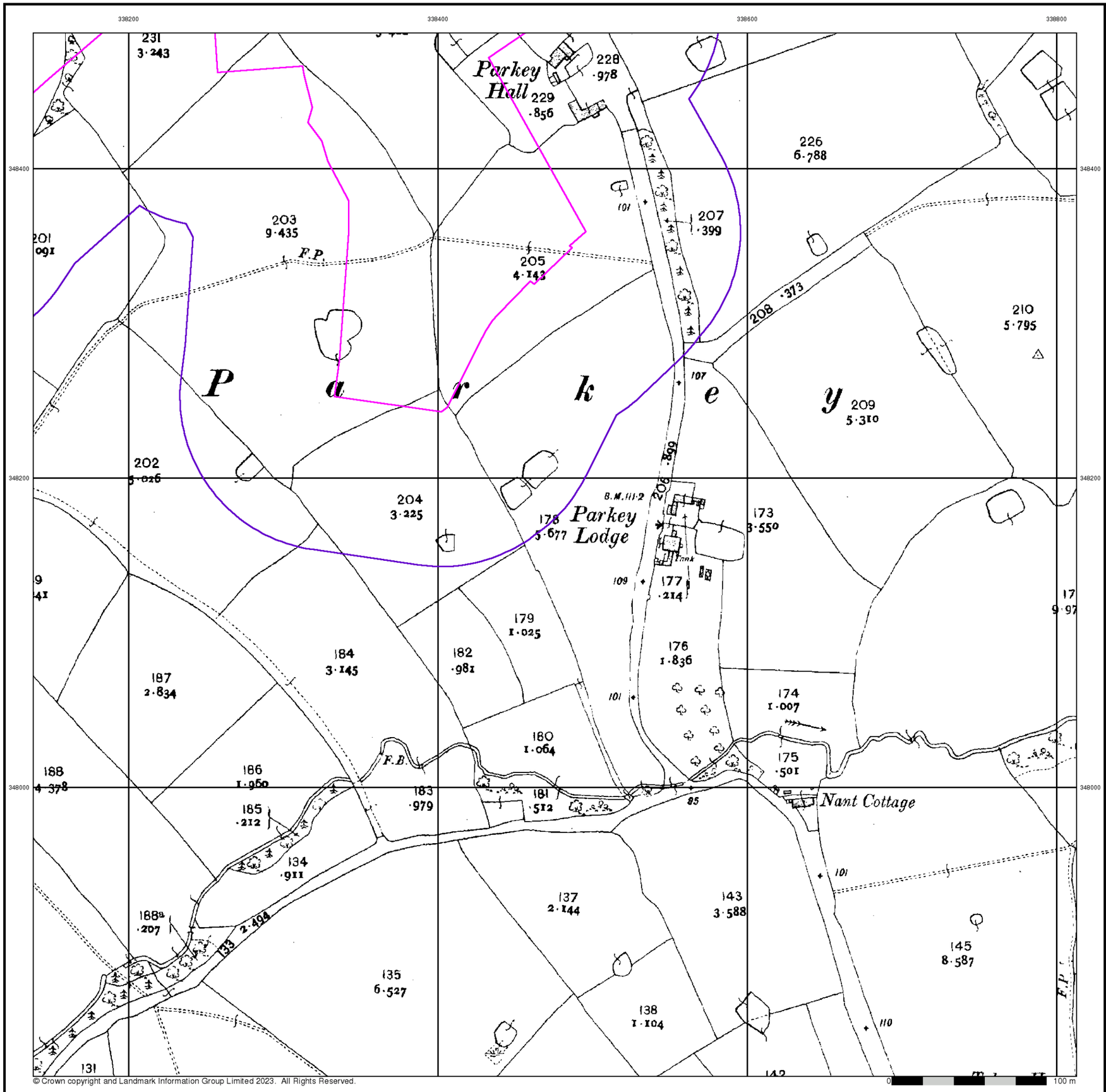
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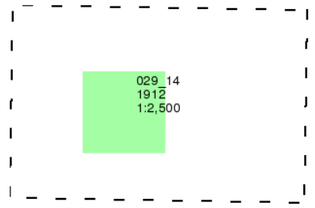
Denbighshire

Published 1912

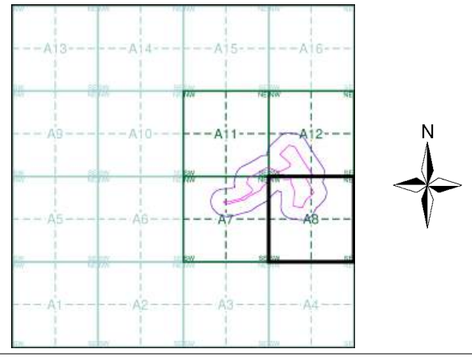
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



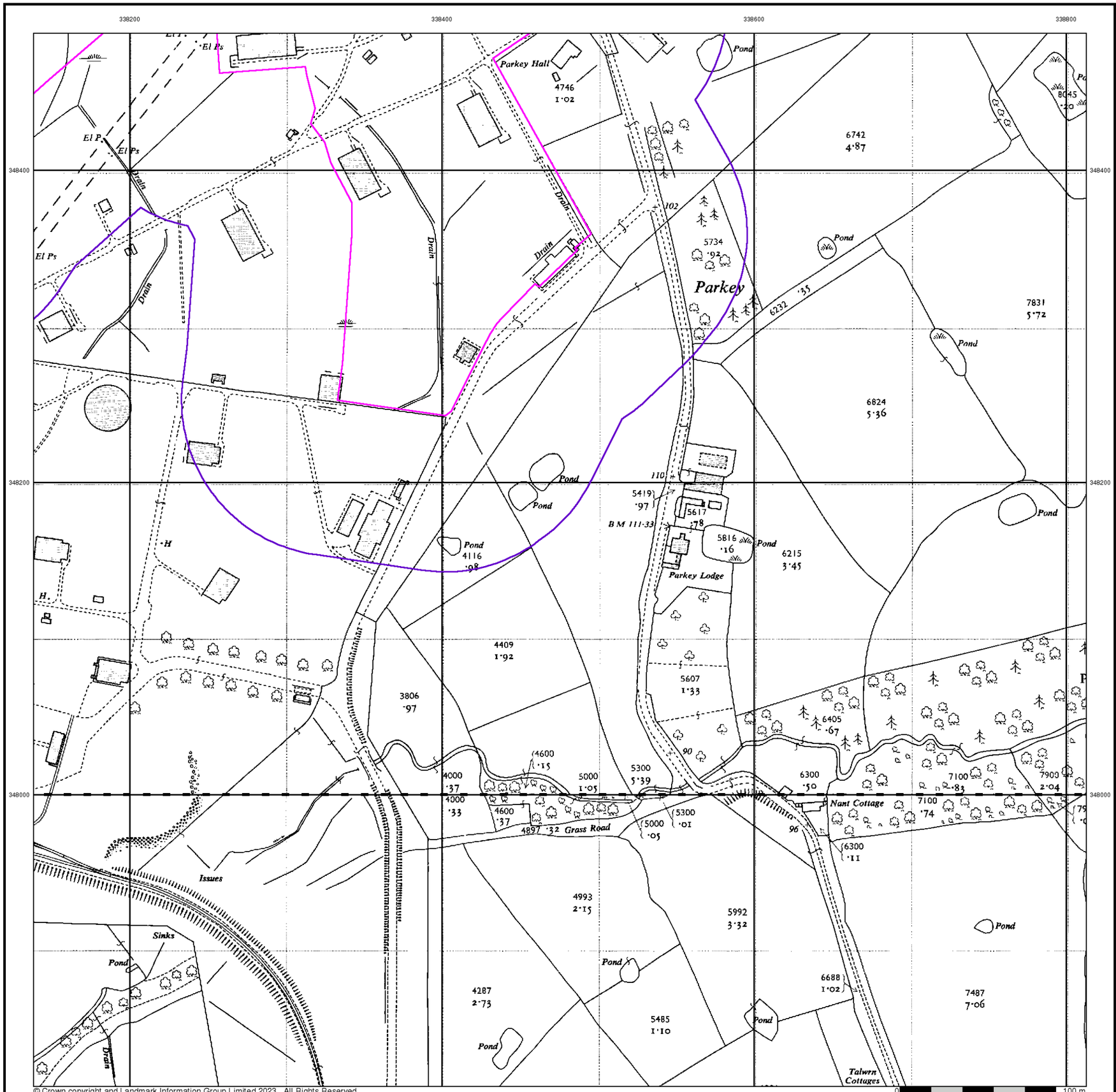
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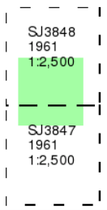
Ordnance Survey Plan

Published 1961

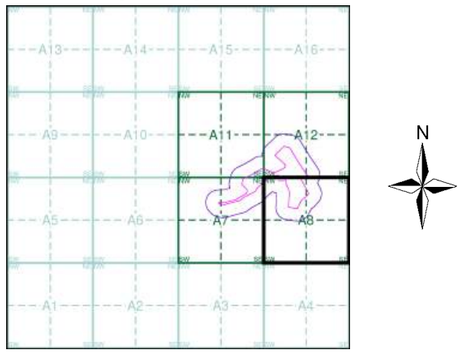
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



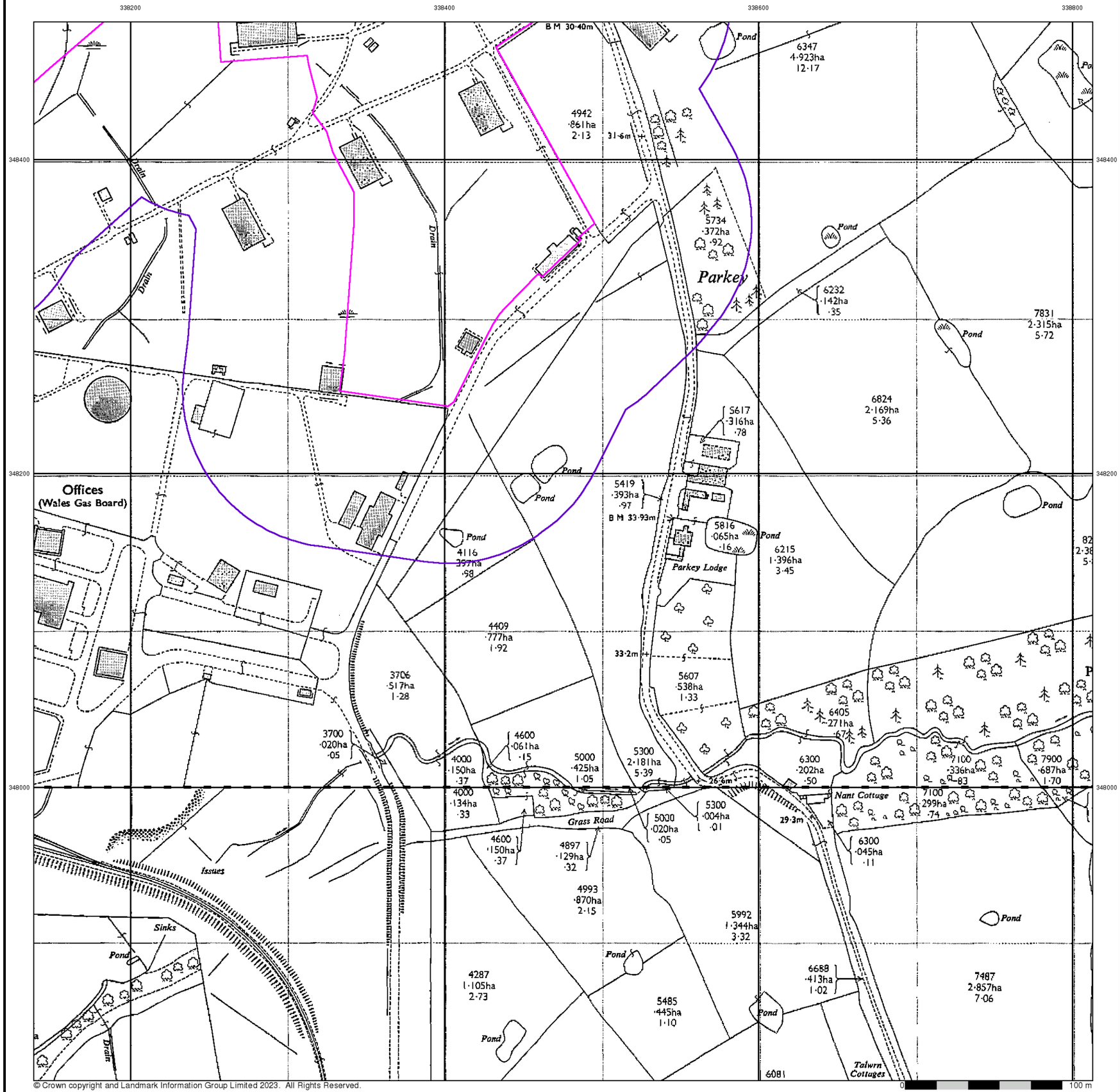
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Additional SIMs

Published 1961

Source map scale - 1:2,500

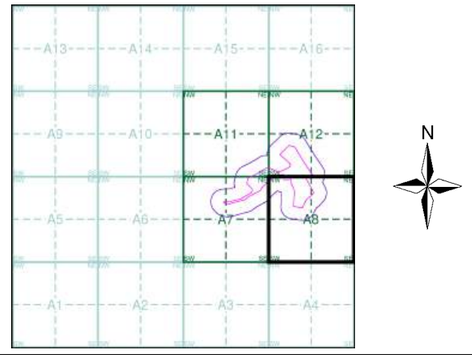
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Map Name(s) and Date(s)

SJ3848
1961
1:2,500

SJ3847
1961
1:2,500

Historical Map - Segment A8



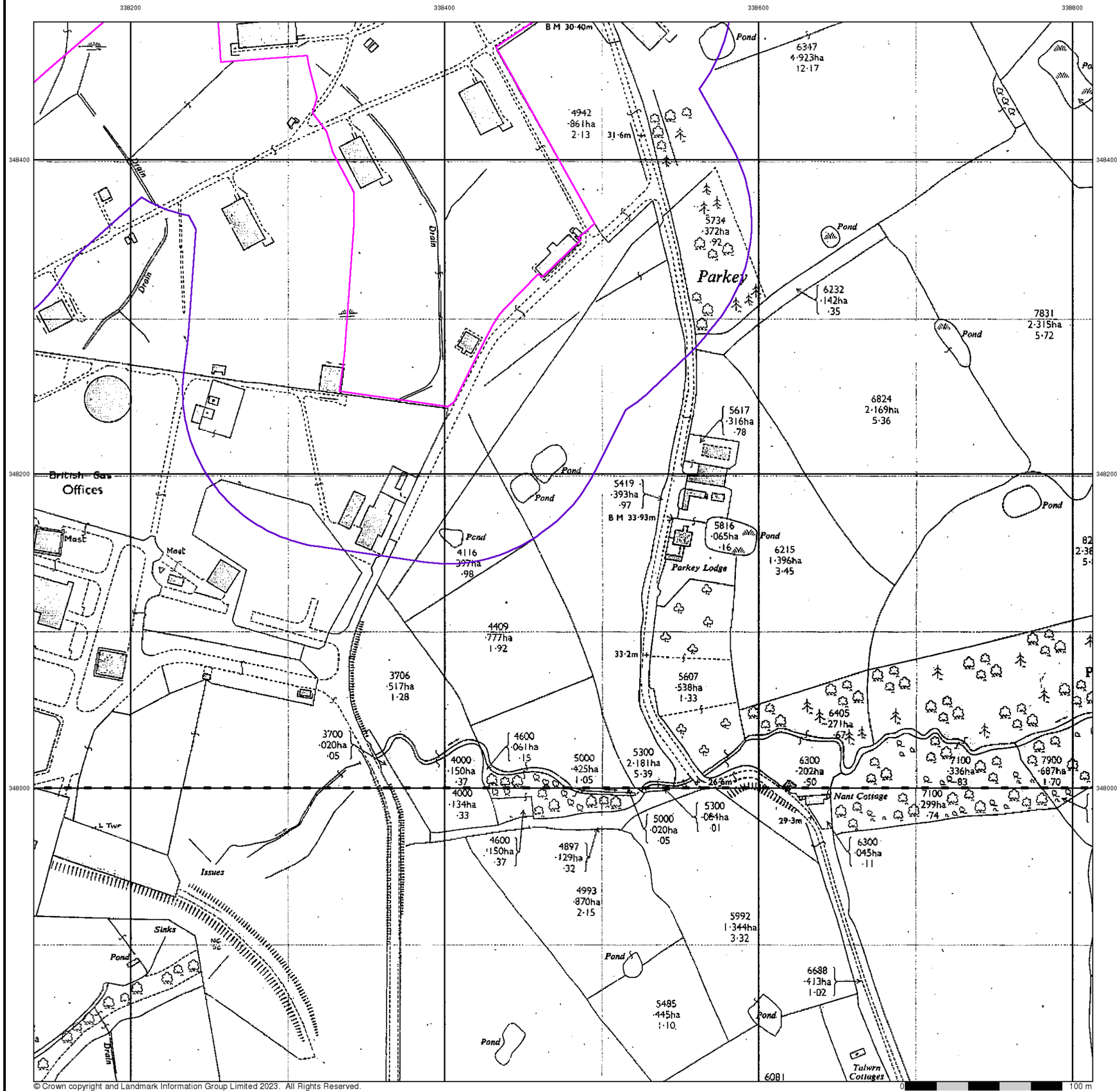
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Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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Additional SIMs

Published 1988 - 1992

Source map scale - 1:2,500

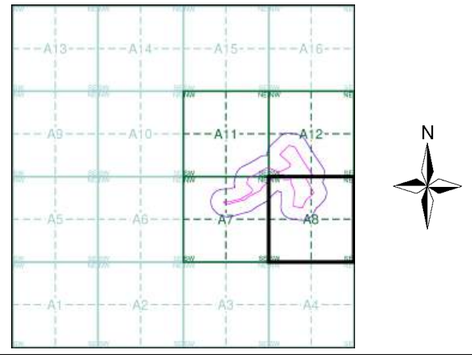
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ3848
1988
1:2,500

SJ3847
1992
1:2,500

Historical Map - Segment A8



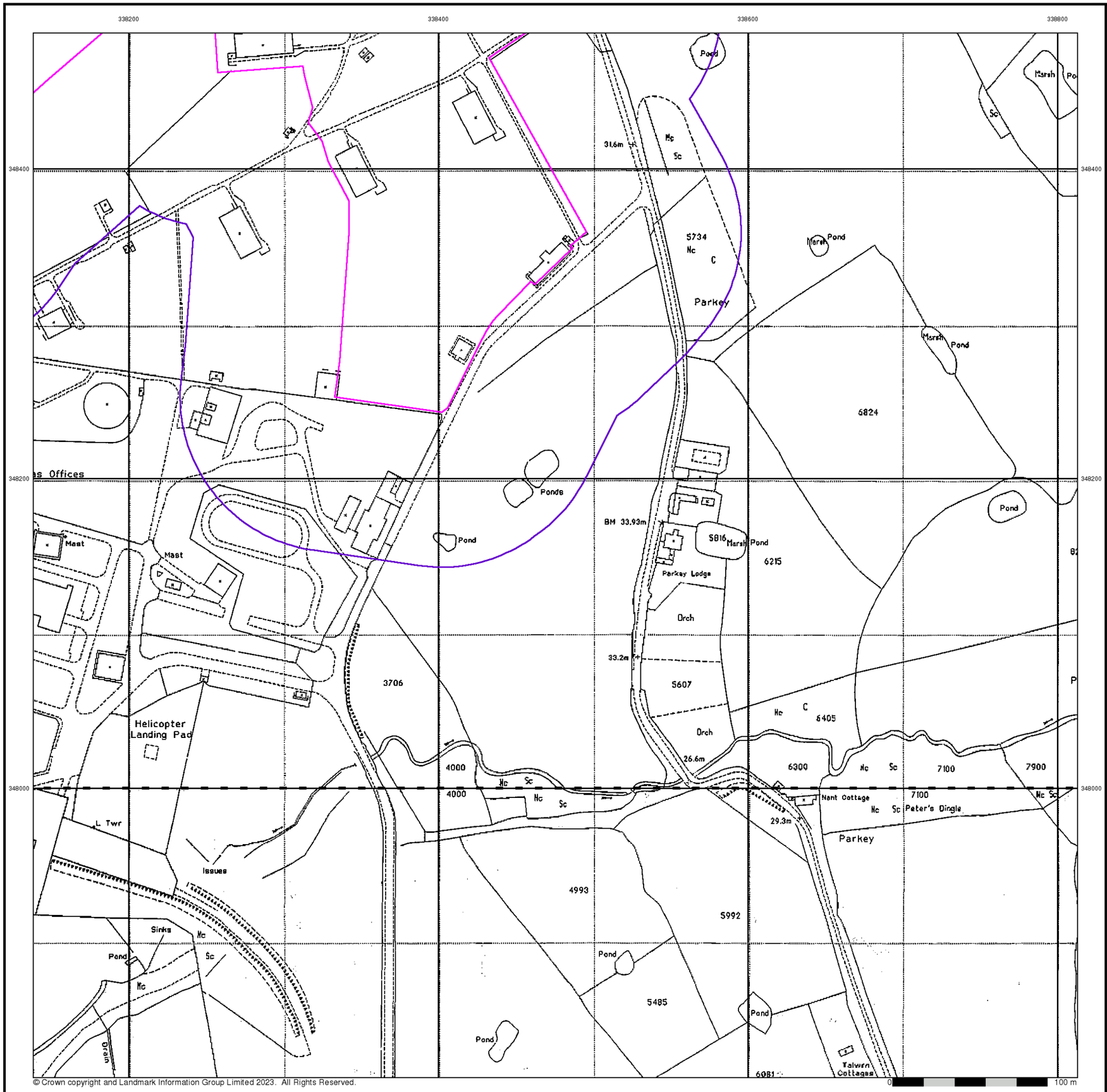
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

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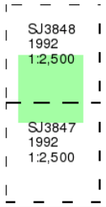
Large-Scale National Grid Data

Published 1992

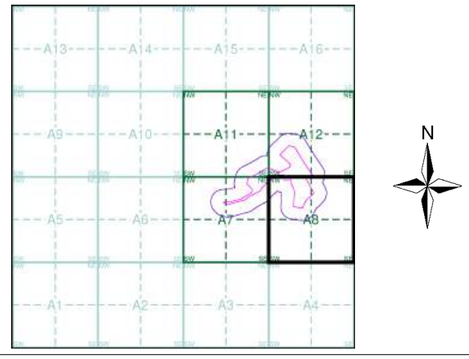
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
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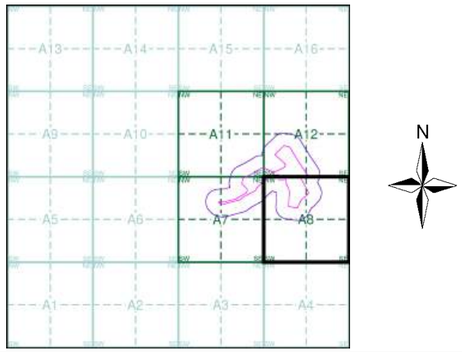


Historical Aerial Photography

Published 2003

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 A8



Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

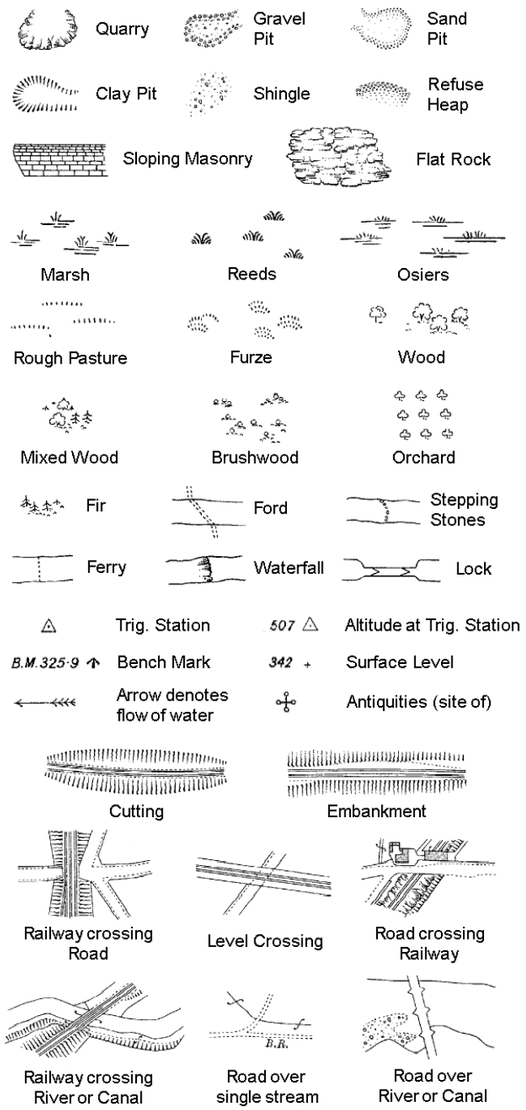
Site Details

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Historical Mapping Legends

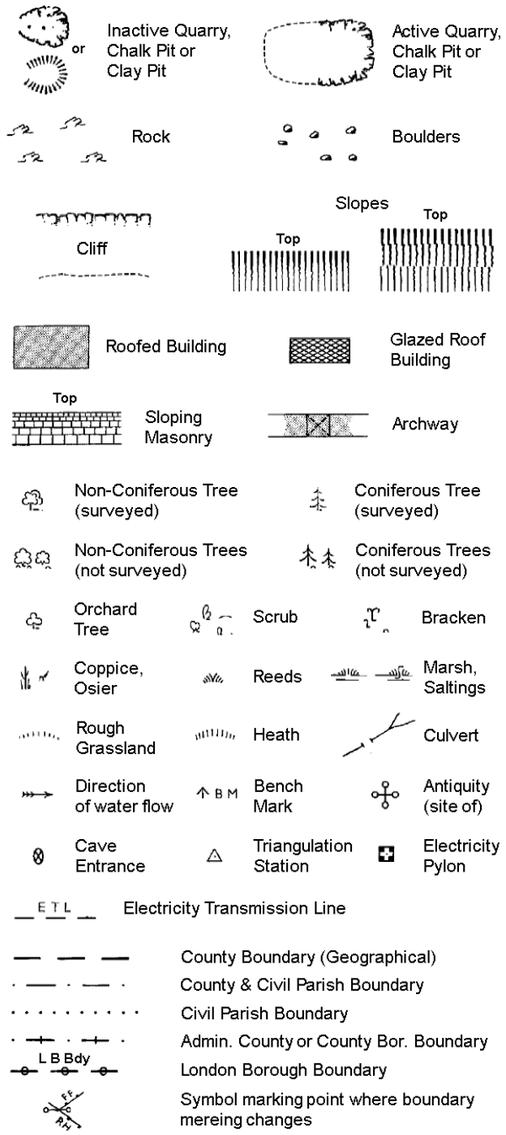
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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	Sl.	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

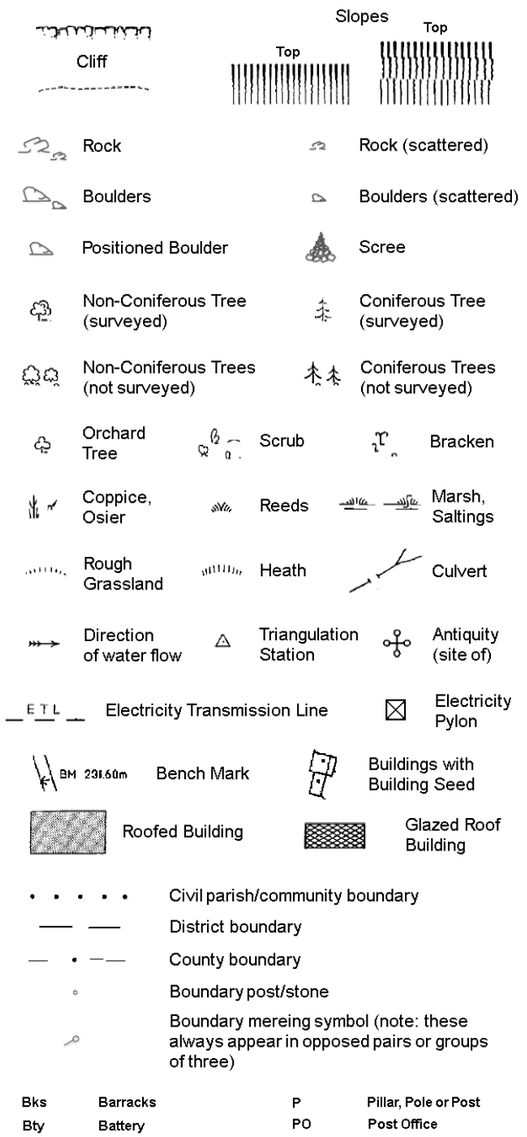
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

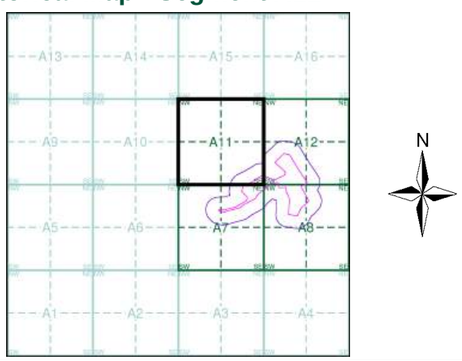
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1911 - 1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1961 - 1982	6
Ordnance Survey Plan	1:2,500	1972 - 1985	7
Additional SIMs	1:2,500	1982 - 1988	8
Additional SIMs	1:2,500	1984 - 1989	9
Additional SIMs	1:2,500	1986 - 1990	10
Additional SIMs	1:2,500	1989	11
Ordnance Survey Plan	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1992	13
Large-Scale National Grid Data	1:2,500	1993 - 1994	14
Large-Scale National Grid Data	1:2,500	1994	15
Historical Aerial Photography	1:2,500	2003	16

Historical Map - Segment A11

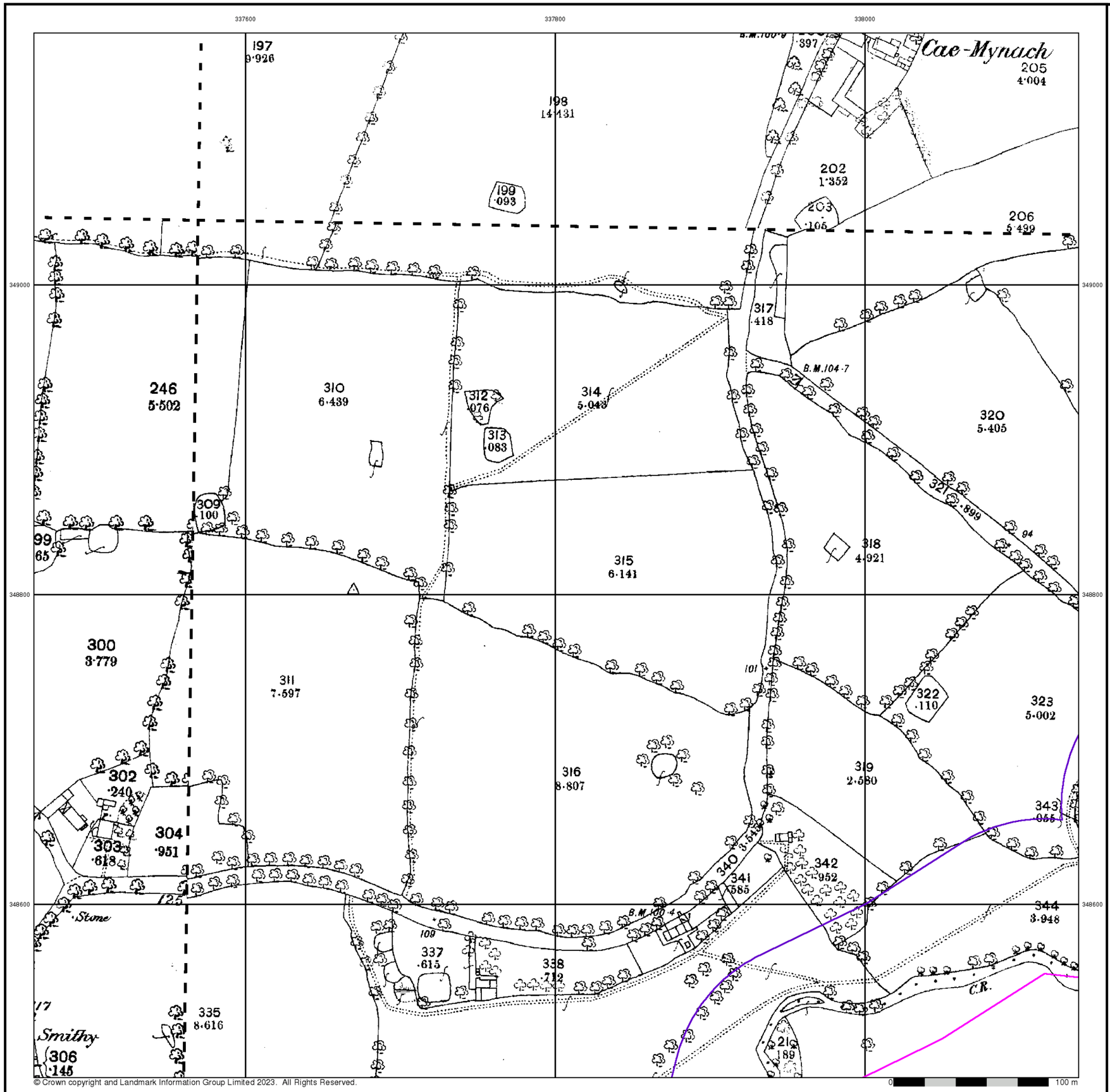


Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT



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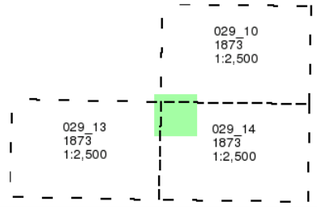
Denbighshire

Published 1873

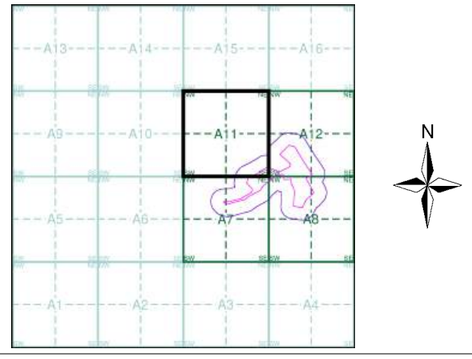
Source map scale - 1:2,500

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 A11



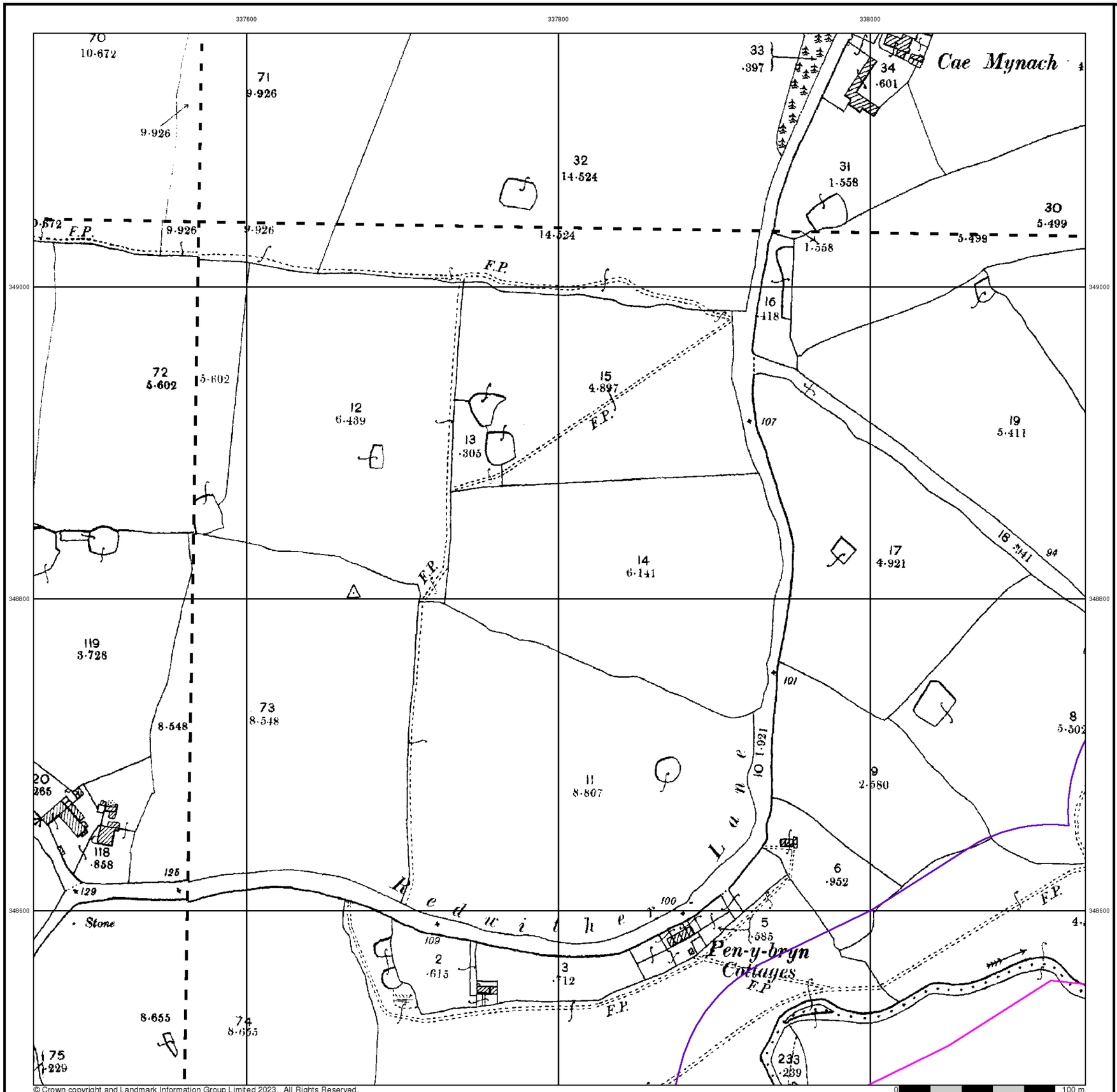
Order Details

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Slice:	A
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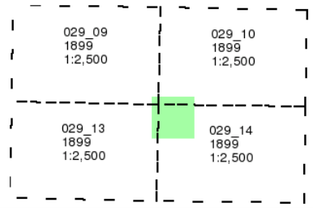
Denbighshire

Published 1899

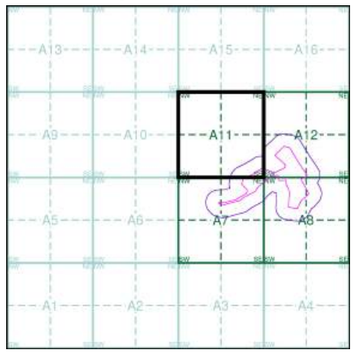
Source map scale - 1:2,500

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 A11



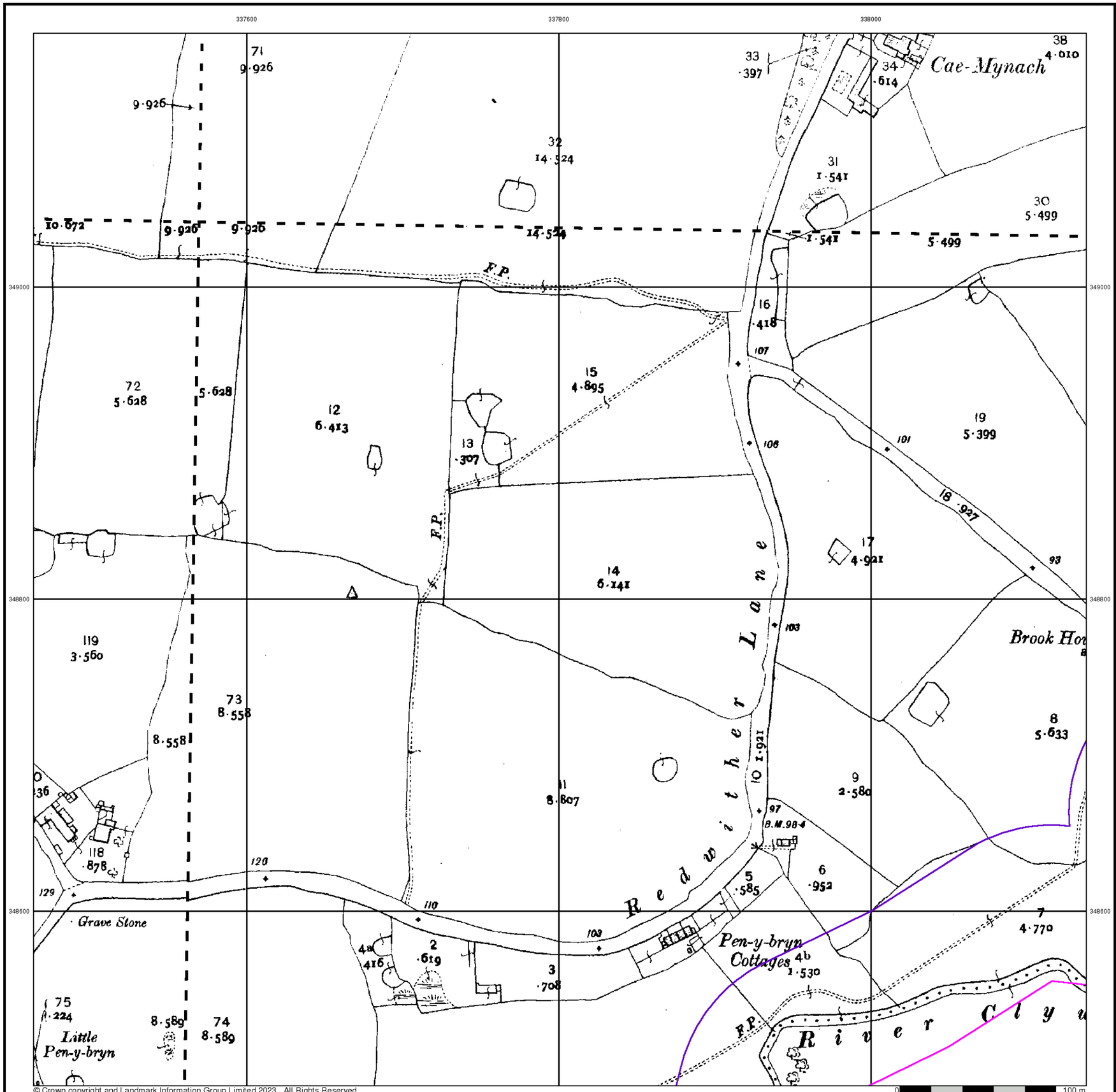
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Customer Ref:	GSI 2006
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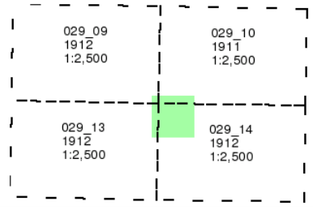
Denbighshire

Published 1911 - 1912

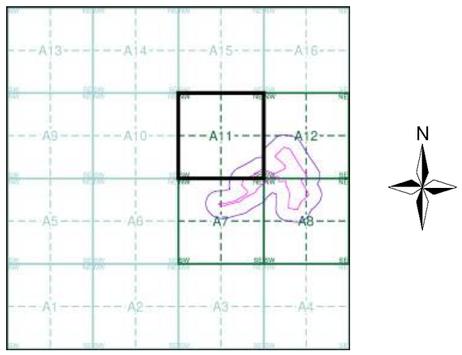
Source map scale - 1:2,500

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 A11



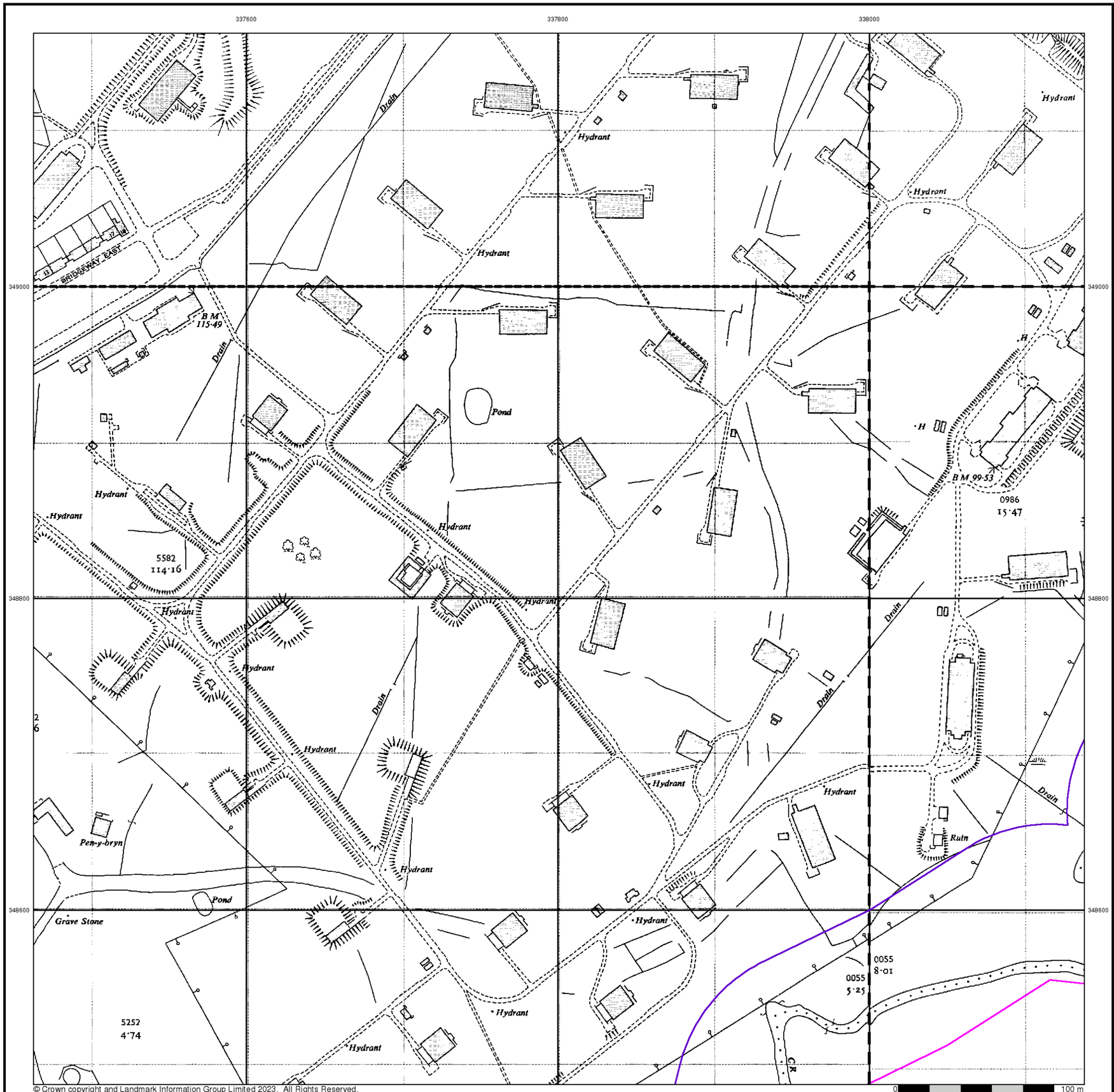
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Ordnance Survey Plan

Published 1961

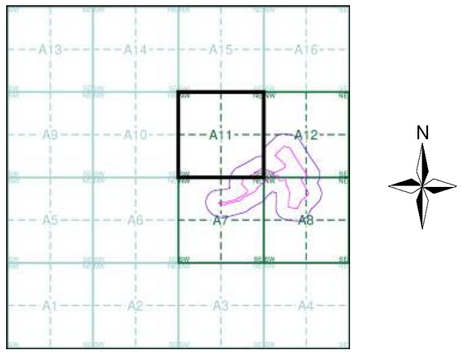
Source map scale - 1:2,500

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)

SJ3749 1961 1:2,500	SJ3849 1961 1:2,500
SJ3748 1961 1:2,500	SJ3848 1961 1:2,500

Historical Map - Segment A11



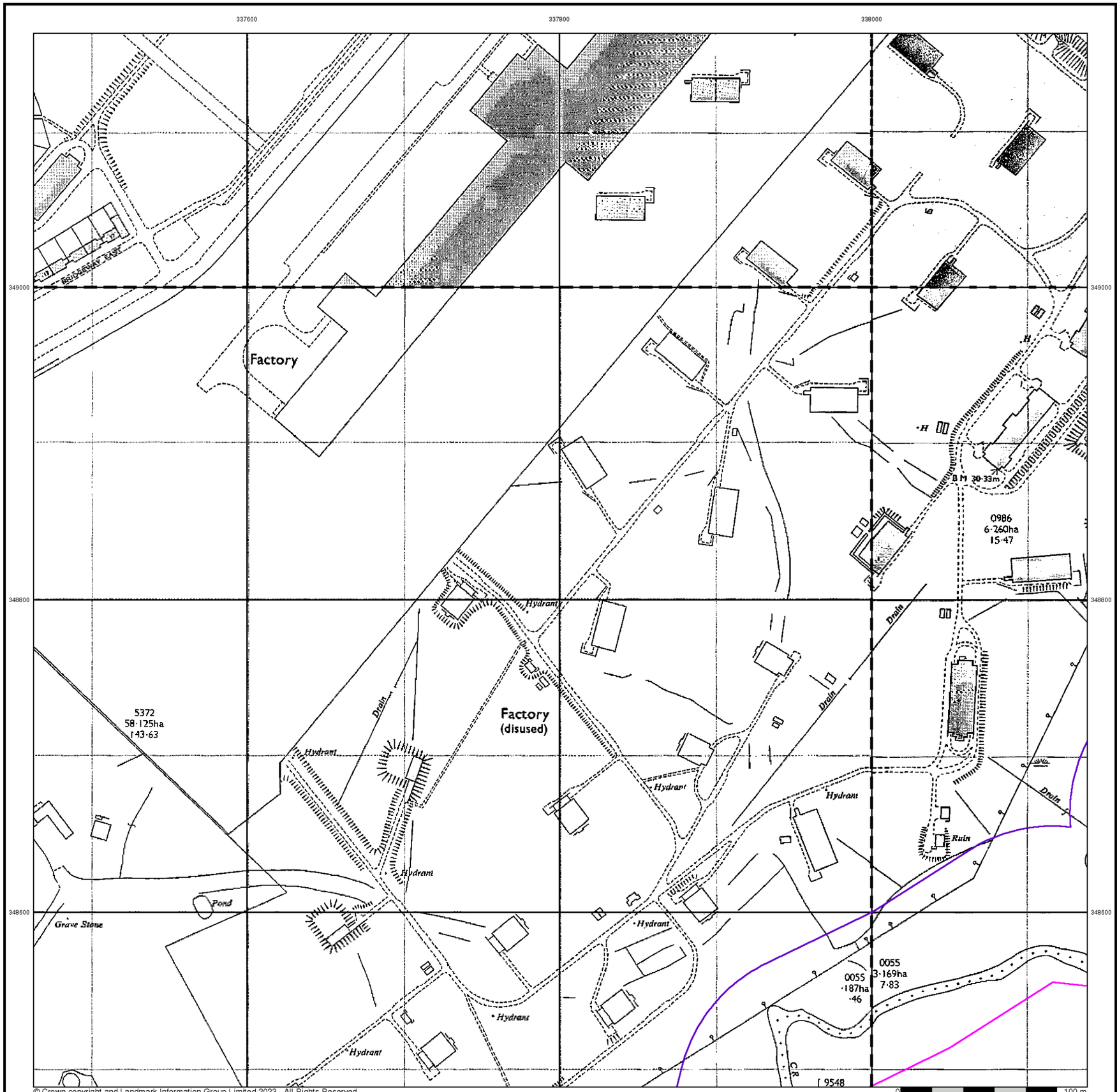
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
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Site Details

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Additional SIMs

Published 1961 - 1982

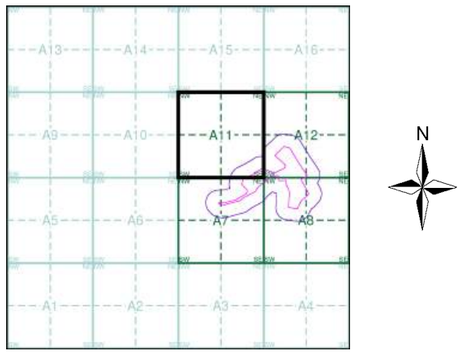
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3749 1961 1:2,500	SJ3849 1982 1:2,500
SJ3748 1961 1:2,500	SJ3848 1961 1:2,500

Historical Map - Segment A11



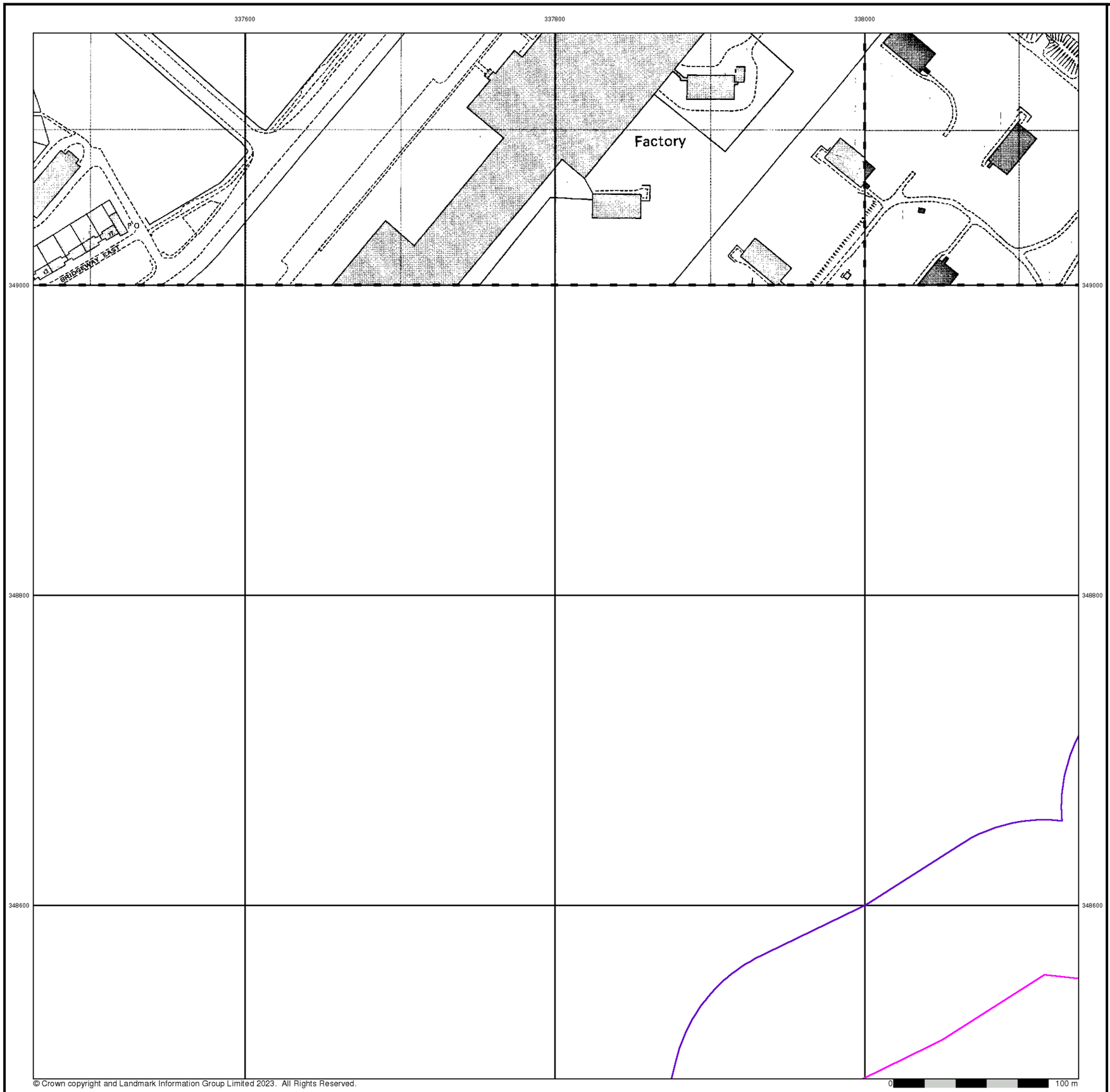
Order Details

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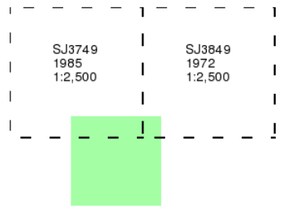
Ordnance Survey Plan

Published 1972 - 1985

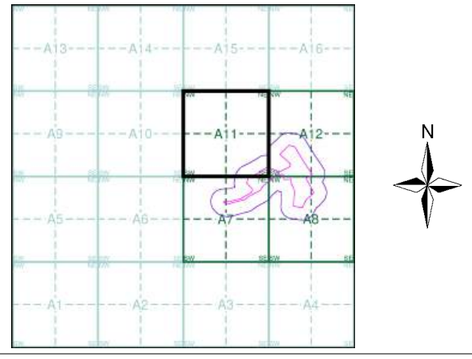
Source map scale - 1:2,500

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 A11



Order Details

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337600
337800
338000
349000
348800
348600
Factory
BRIDGEWAY EAST
Factory
B M 30·33m
0936
6·260ha
15·47
Hydrant
Drain
5372
58·125ha
143·63
Factory
(disused)
Hydrant
Hydrant
Pond
Grave Stone
Hydrant
Hydrant
Hydrant
Ruin
Drain
0055
187ha
·46
1 9548
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0
100 m

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Additional SIMs

Published 1982 - 1988

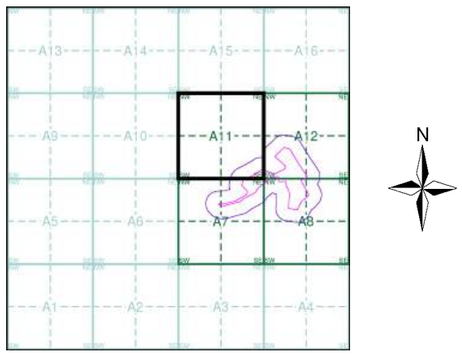
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3749 1982 1:2,500	SJ3849 1988 1:2,500
SJ3748 1982 1:2,500	SJ3848 1988 1:2,500

Historical Map - Segment A11



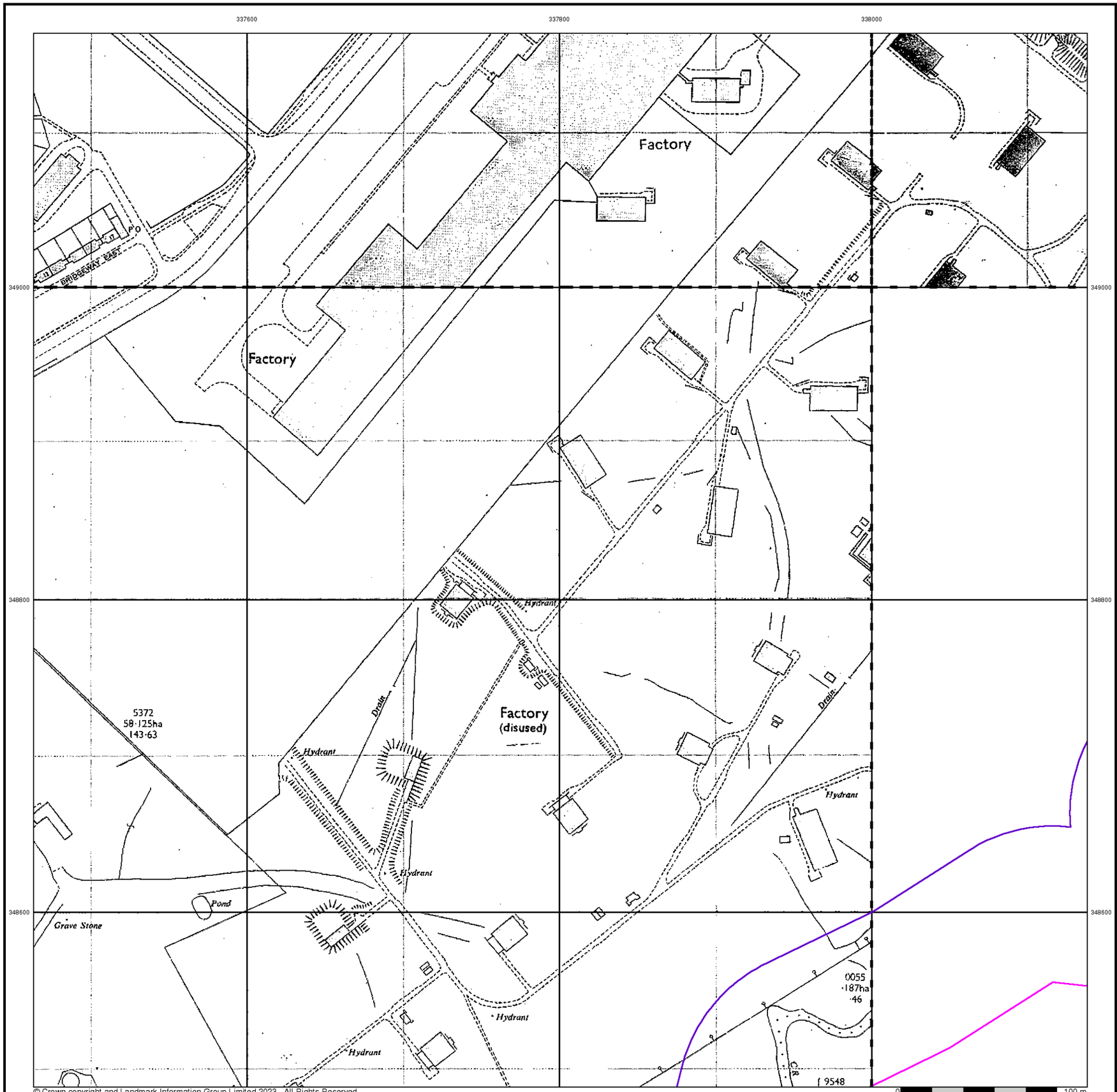
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
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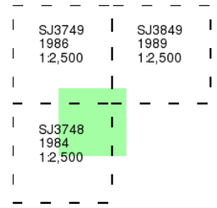
Additional SIMs

Published 1984 - 1989

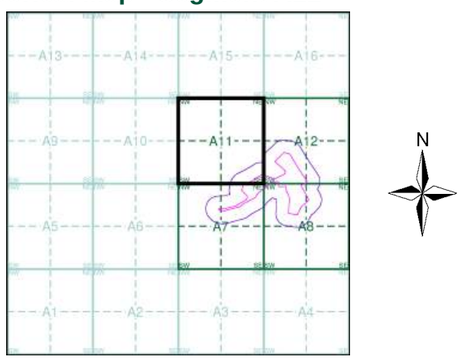
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



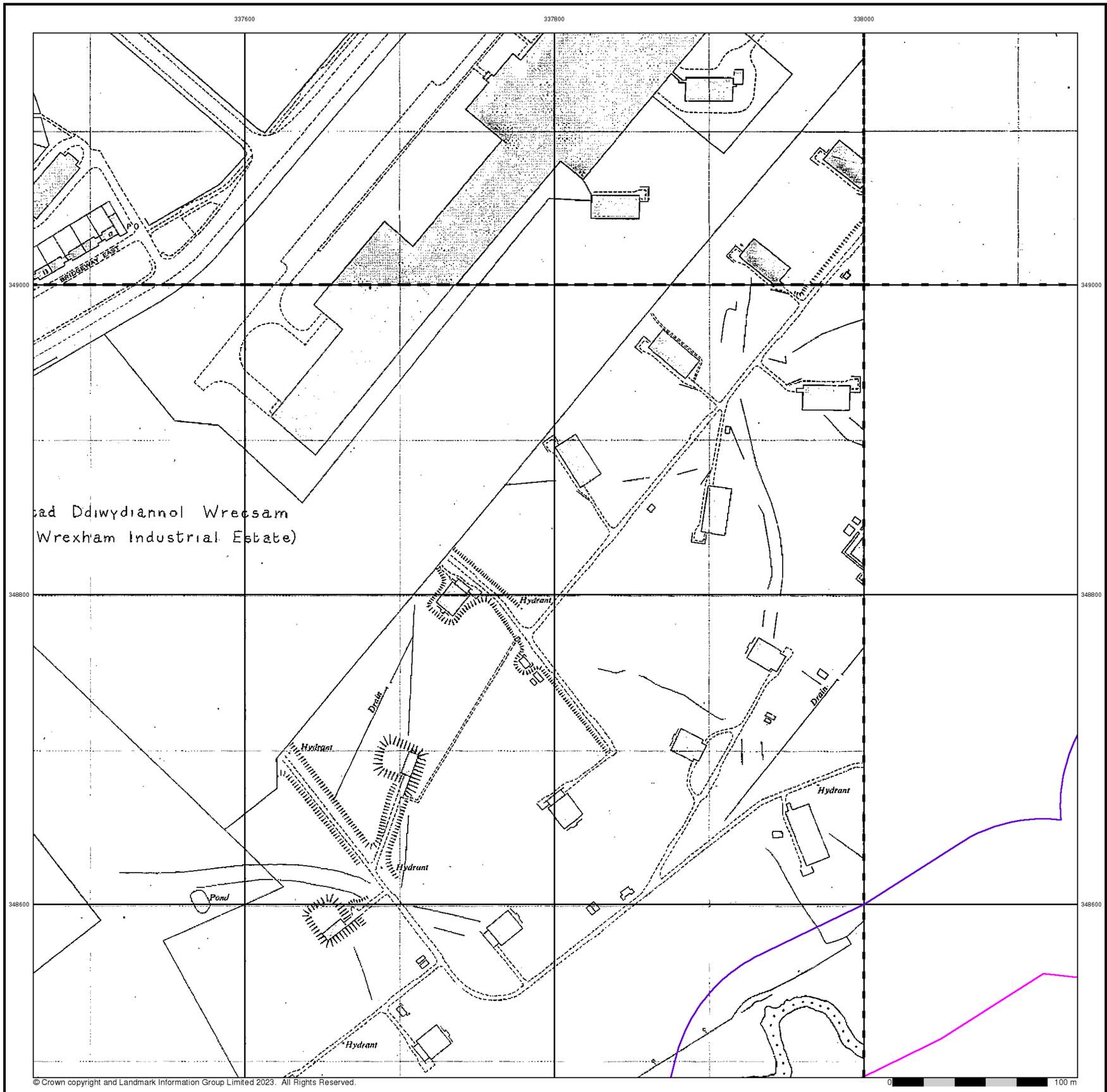
Order Details

Order Number:	325490765_1_1
Customer Ref:	GSI 2006
National Grid Reference:	337930, 348420
Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT

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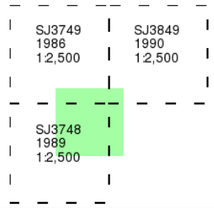
Additional SIMs

Published 1986 - 1990

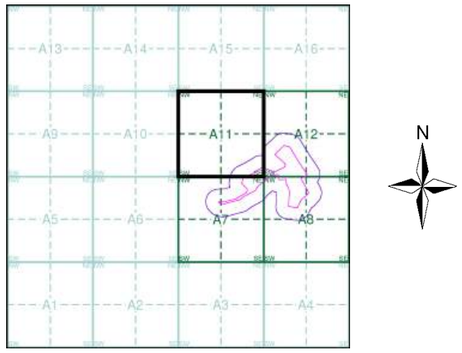
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

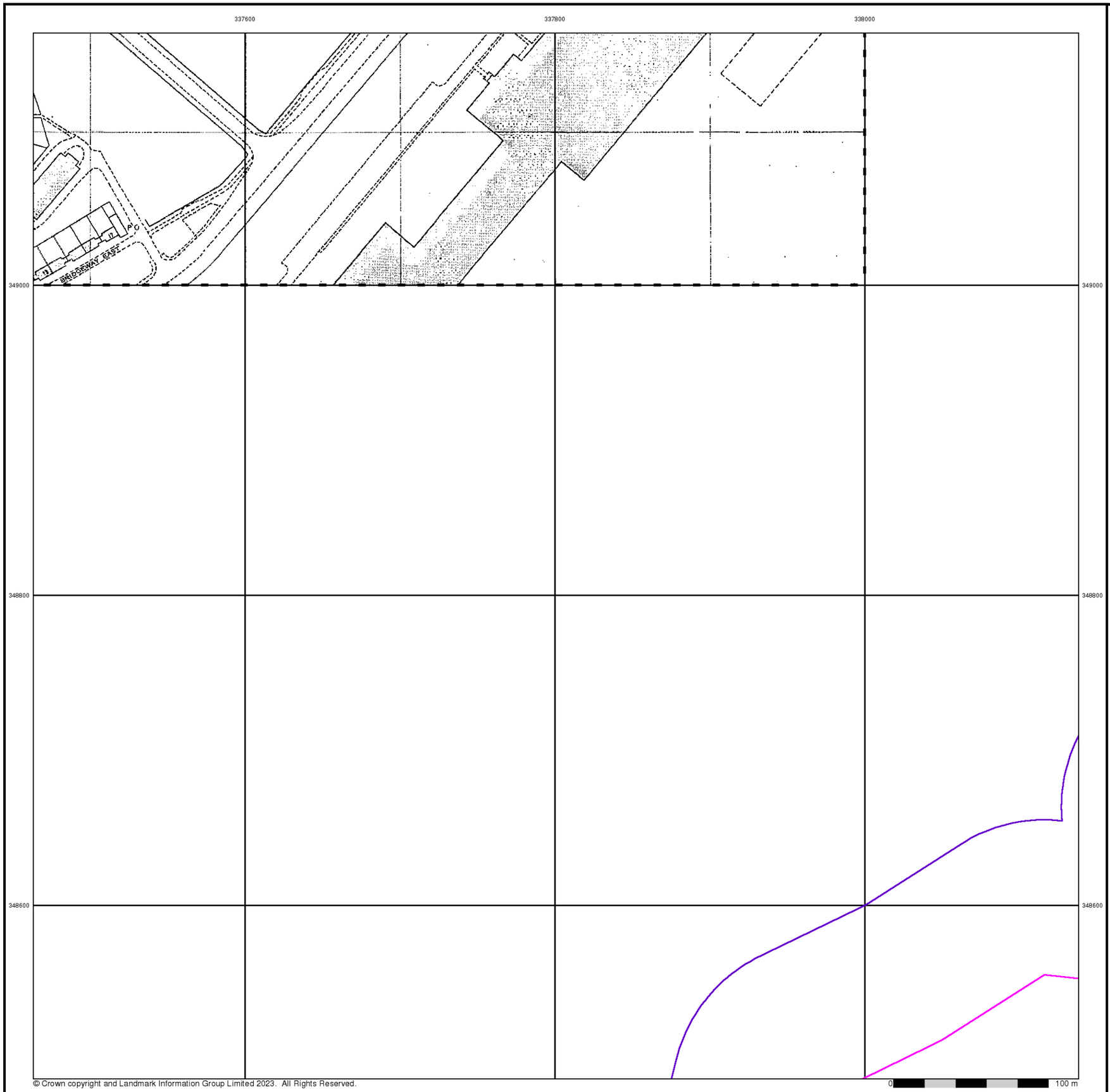
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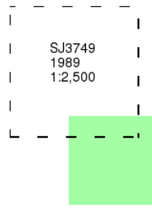
Additional SIMs

Published 1989

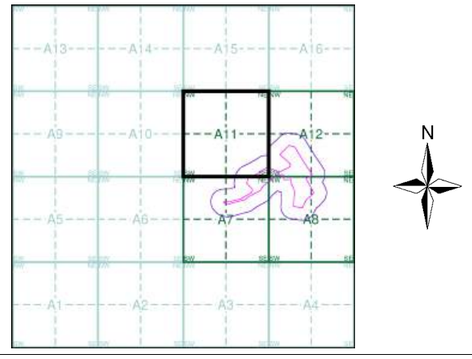
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



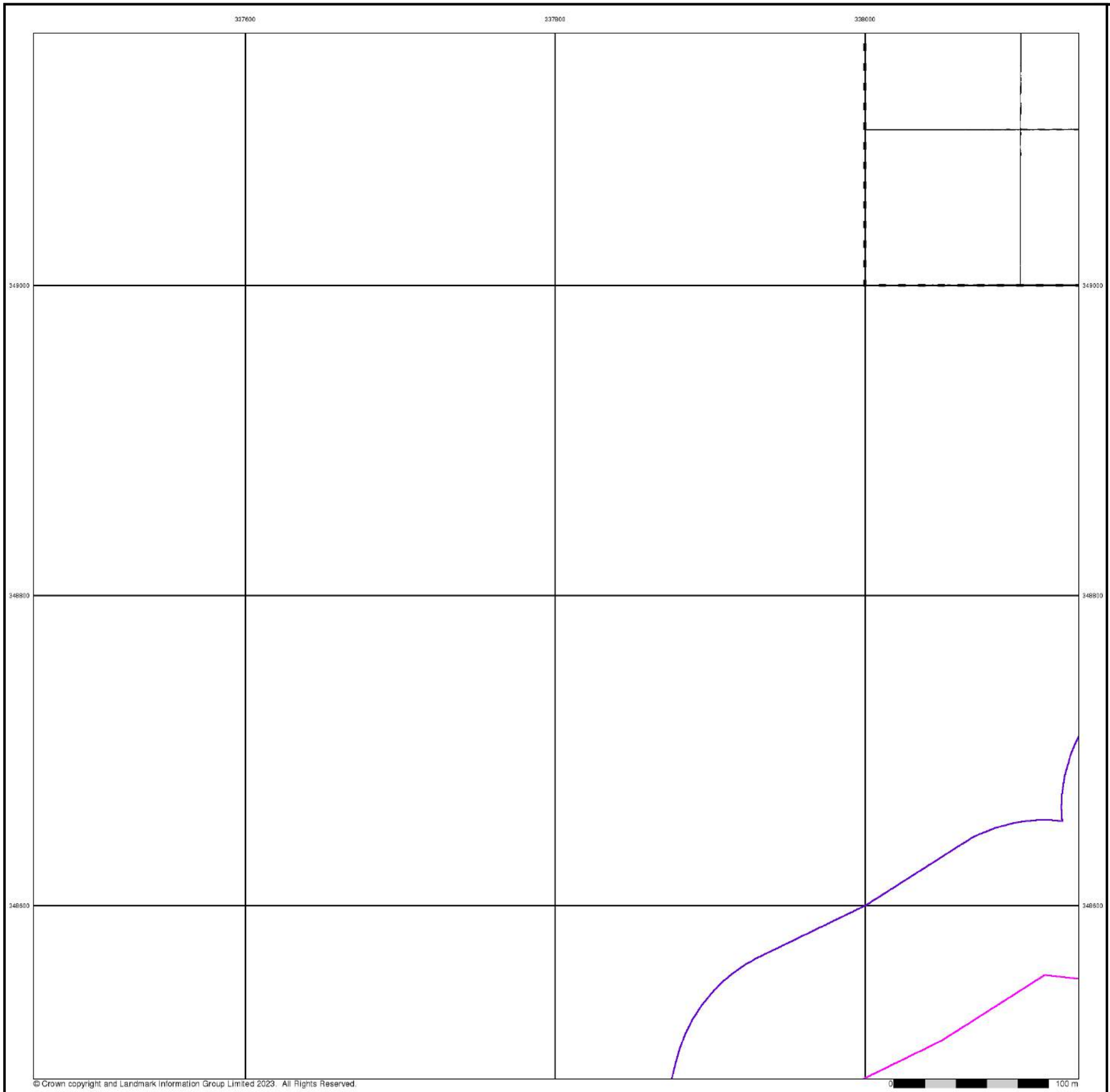
Order Details

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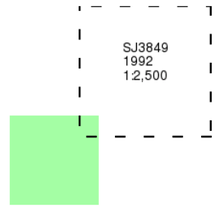
Ordnance Survey Plan

Published 1992

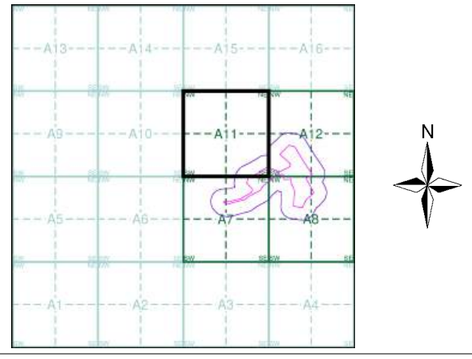
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



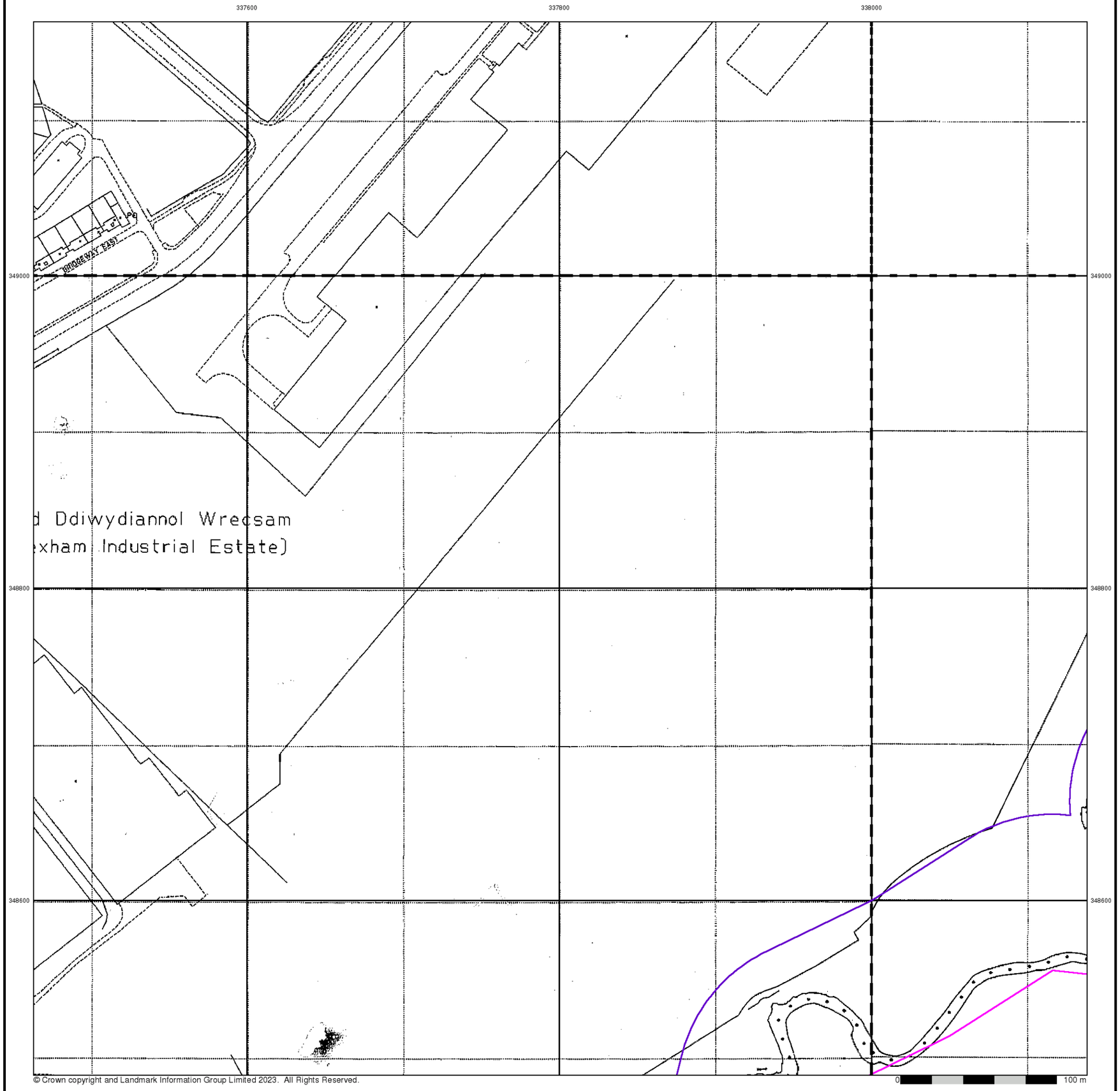
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Large-Scale National Grid Data

Published 1992

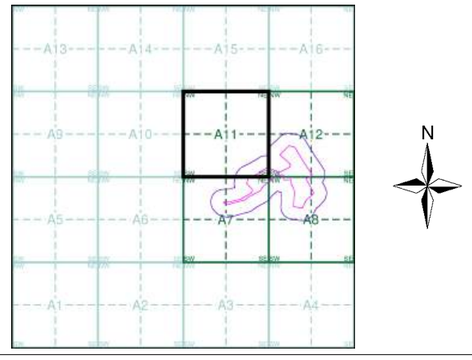
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SJ3749 1992 1:2,500
SJ3849 1992 1:2,500
SJ3748 1992 1:2,500
SJ3848 1992 1:2,500

Historical Map - Segment A11



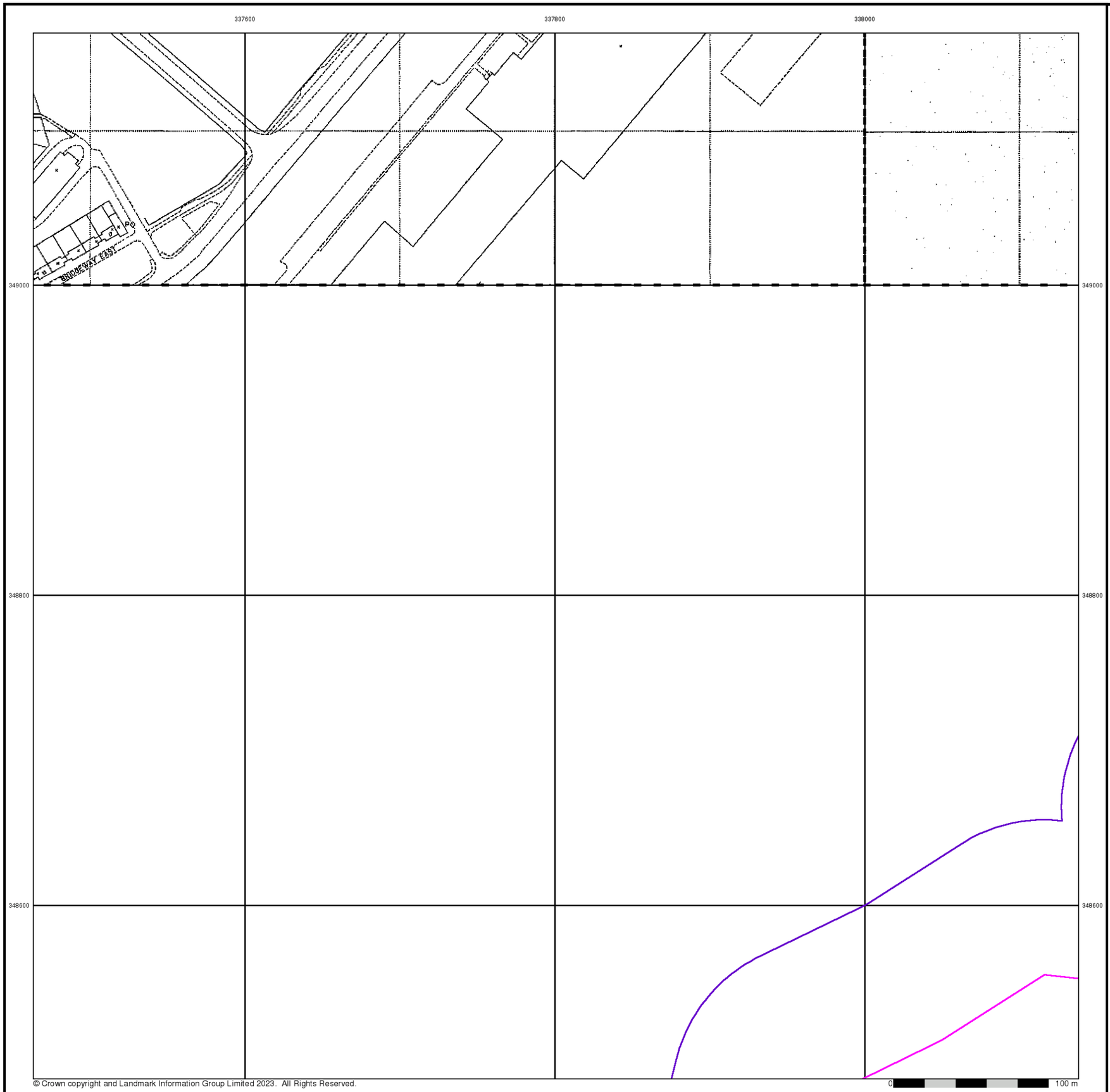
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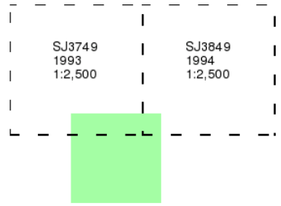
Large-Scale National Grid Data

Published 1993 - 1994

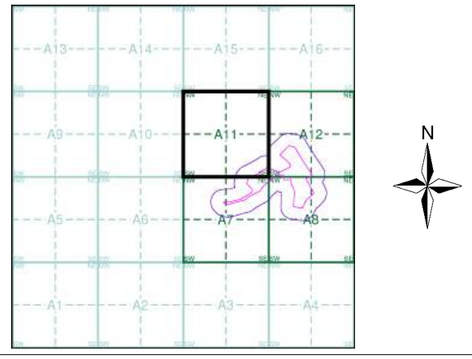
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



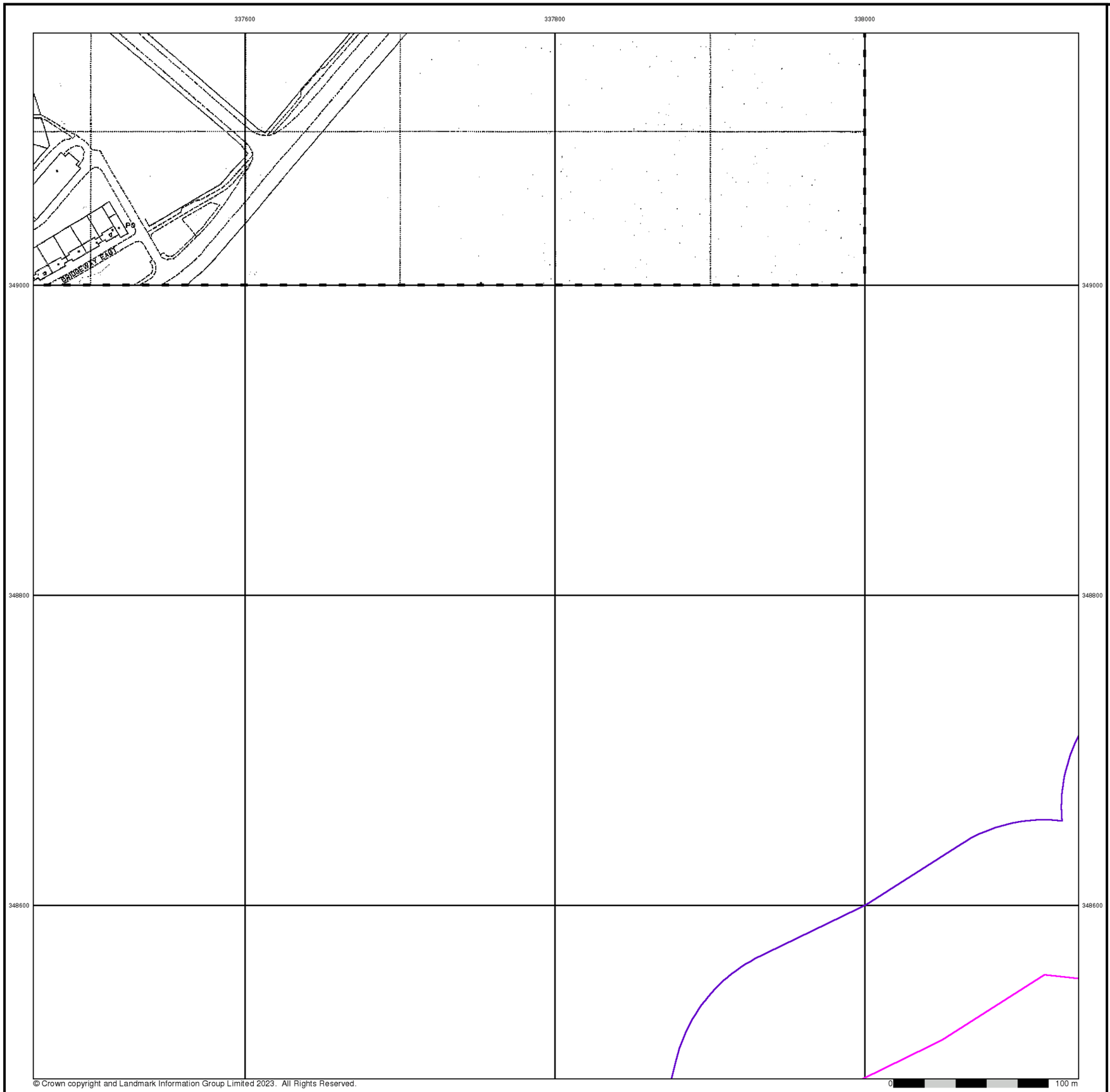
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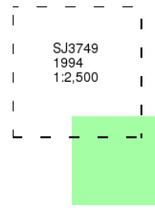
Large-Scale National Grid Data

Published 1994

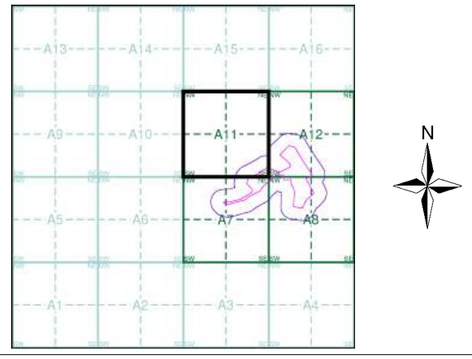
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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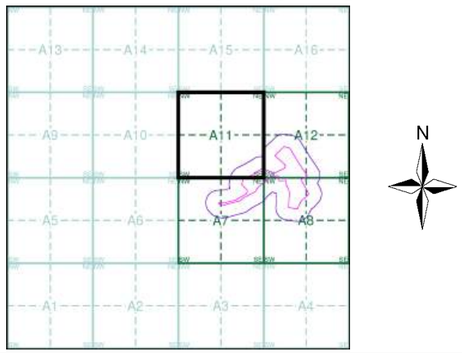
337600
337800
338000
349000
348800
348600
© Copyright Getmapping plc
0
100 m

Historical Aerial Photography

Published 2003

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 A11



Order Details

Order Number:	325490765_1_1
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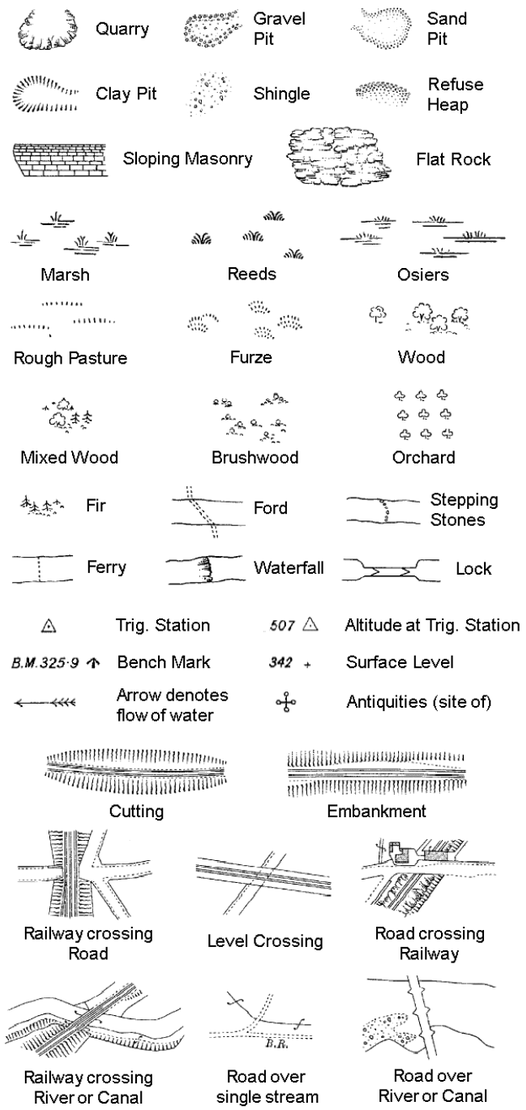
Site Details

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Historical Mapping Legends

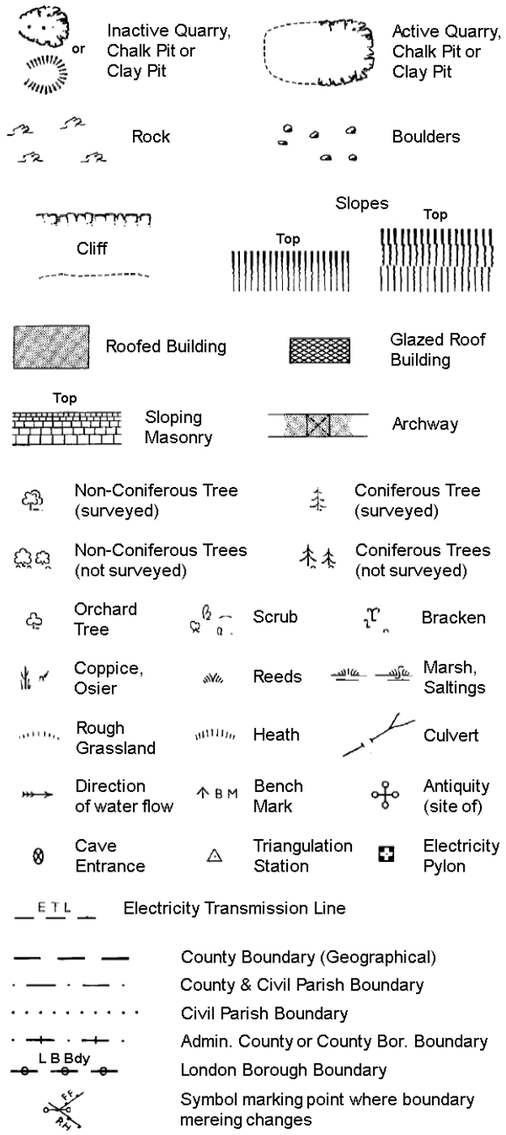
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

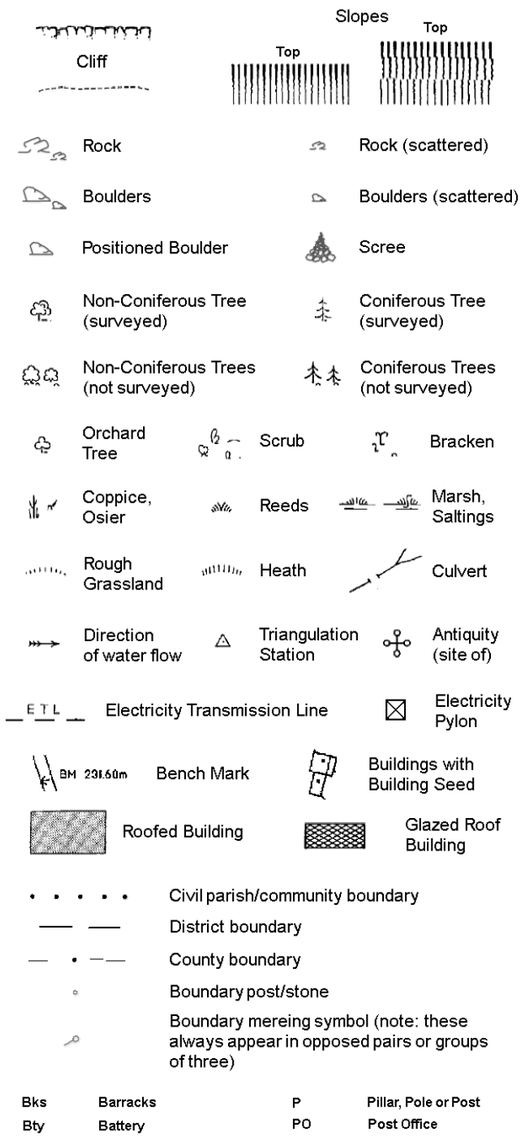
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

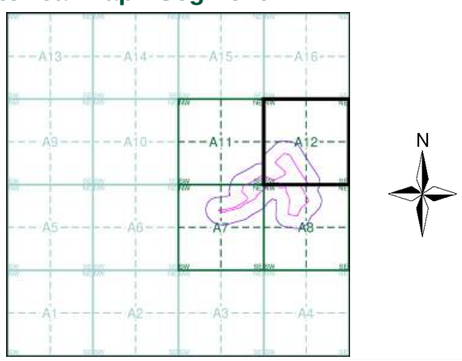
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1911 - 1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1961 - 1982	6
Ordnance Survey Plan	1:2,500	1972	7
Additional SIMs	1:2,500	1988	8
Additional SIMs	1:2,500	1989	9
Additional SIMs	1:2,500	1990	10
Ordnance Survey Plan	1:2,500	1992	11
Large-Scale National Grid Data	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1994	13
Historical Aerial Photography	1:2,500	2003	14

Historical Map - Segment A12

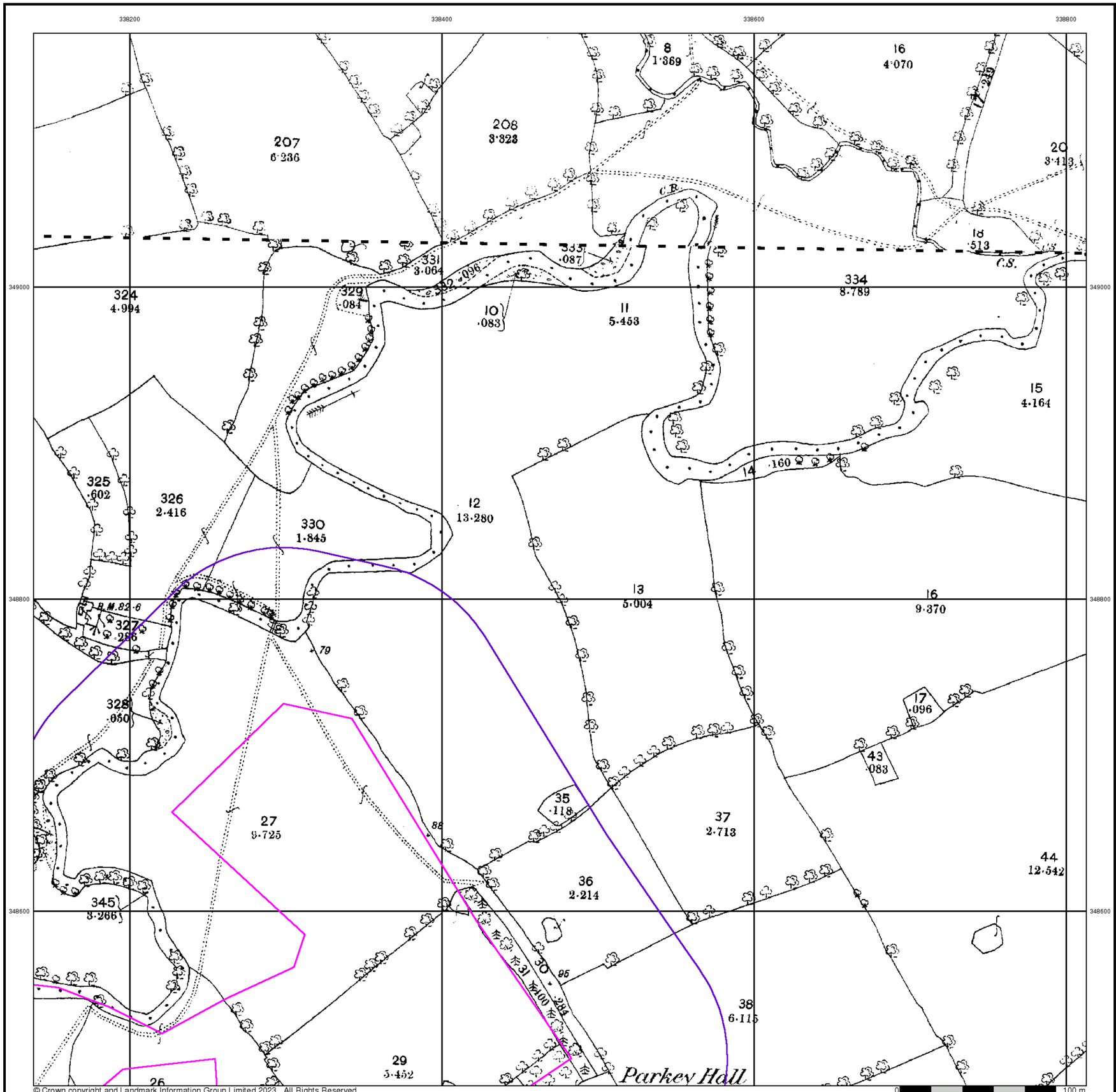


Order Details

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Site Details

Solar Farm, Wrexham, Sesswick, Wrexham, LL13 0UT



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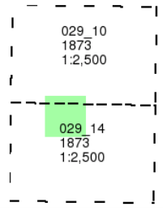
Denbighshire

Published 1873

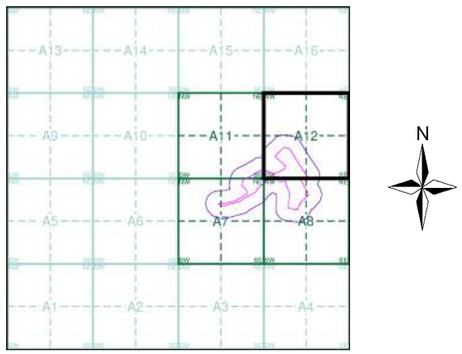
Source map scale - 1:2,500

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 A12



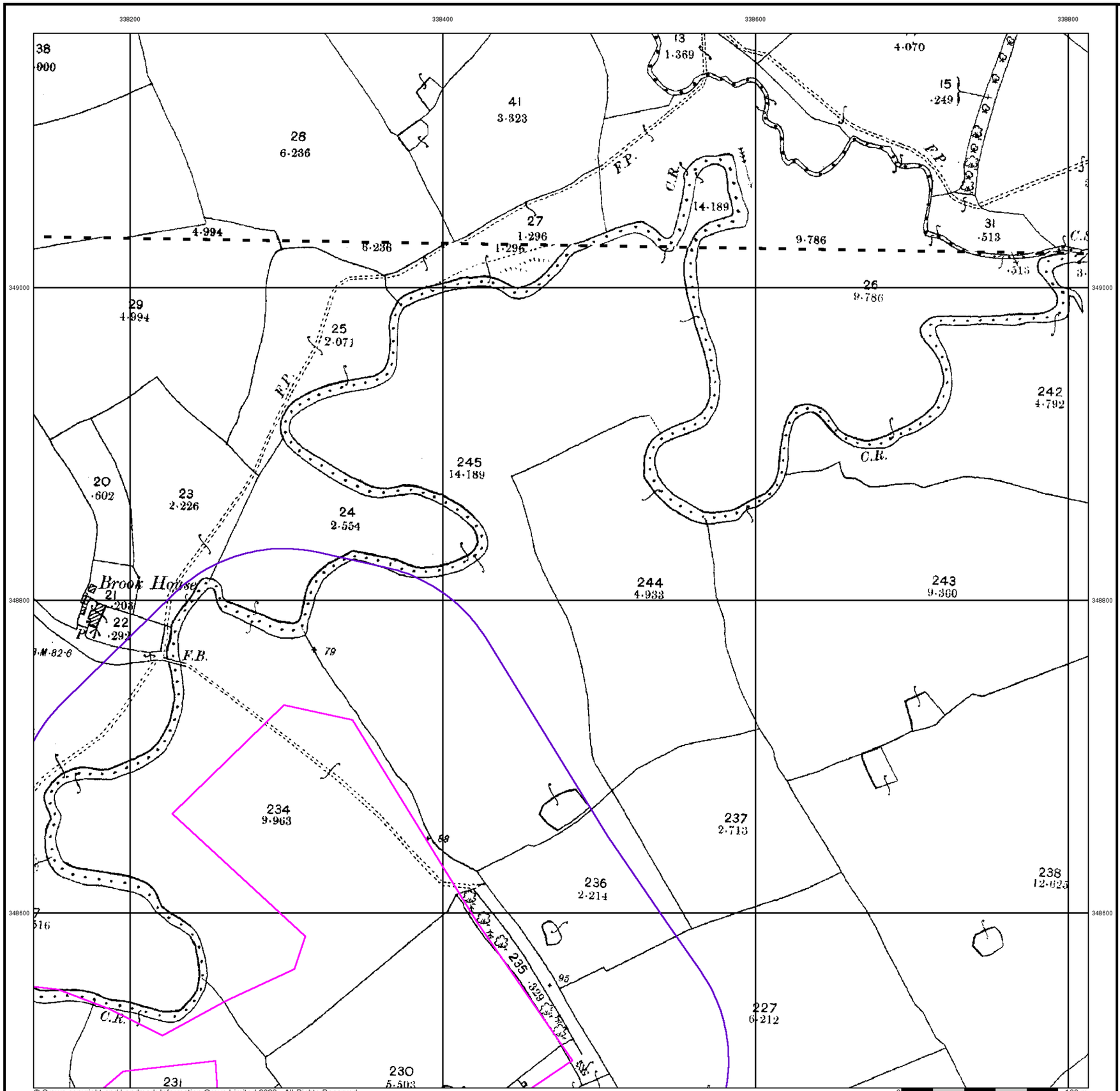
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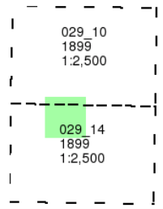
Denbighshire

Published 1899

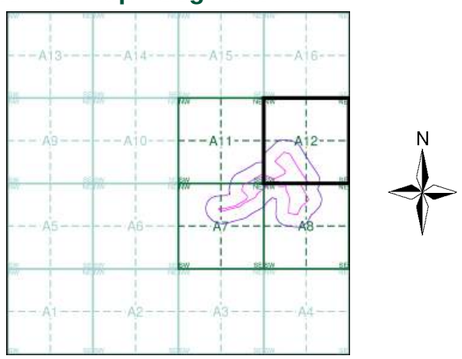
Source map scale - 1:2,500

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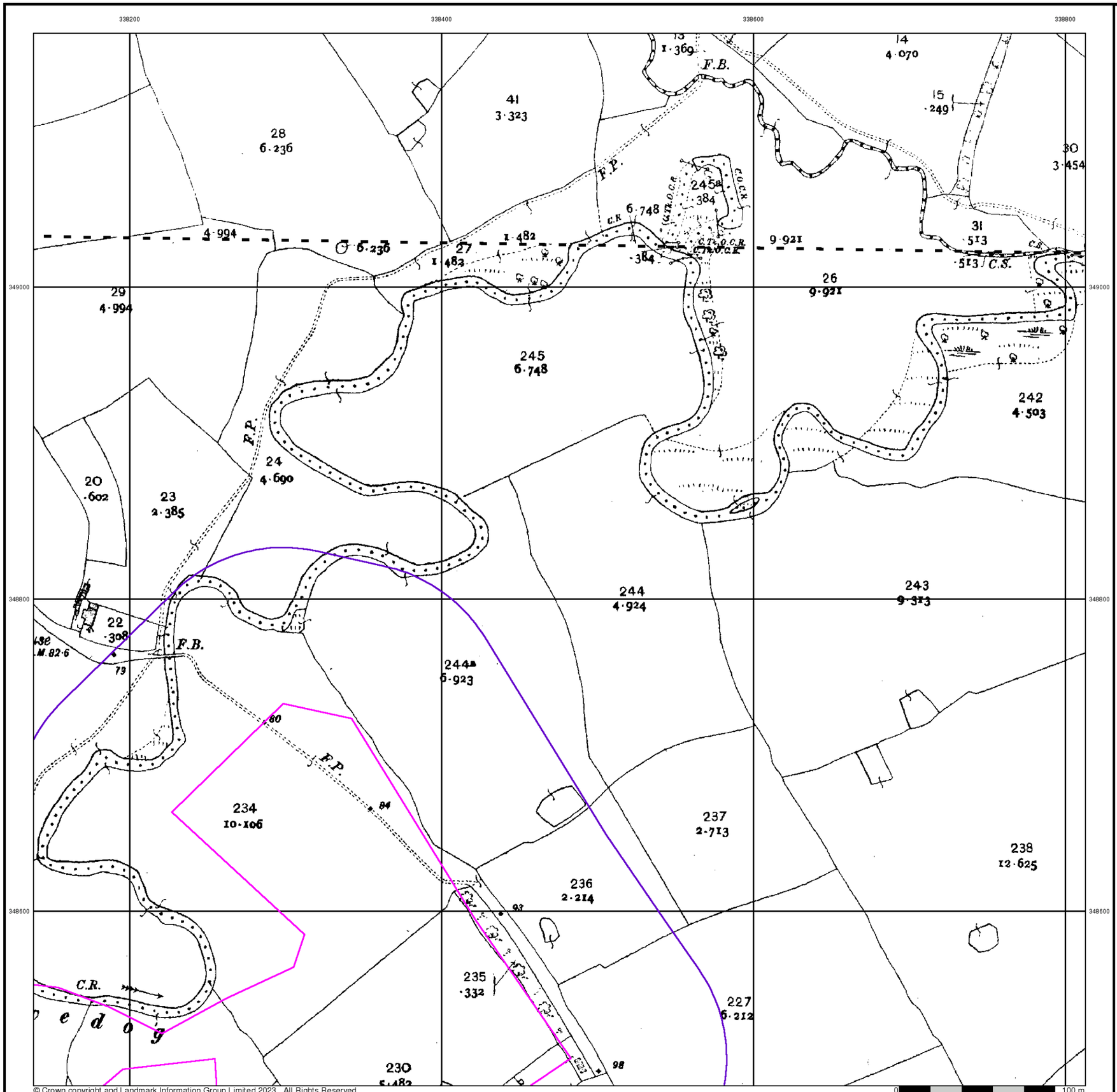
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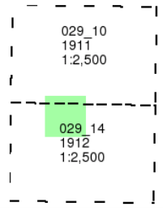
Denbighshire

Published 1911 - 1912

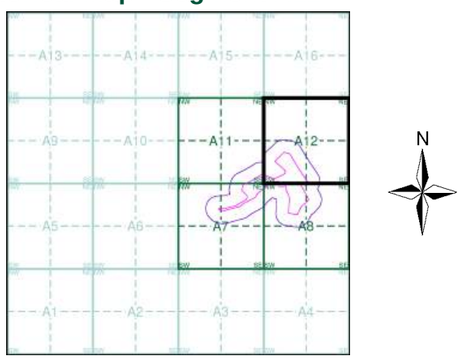
Source map scale - 1:2,500

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 A12

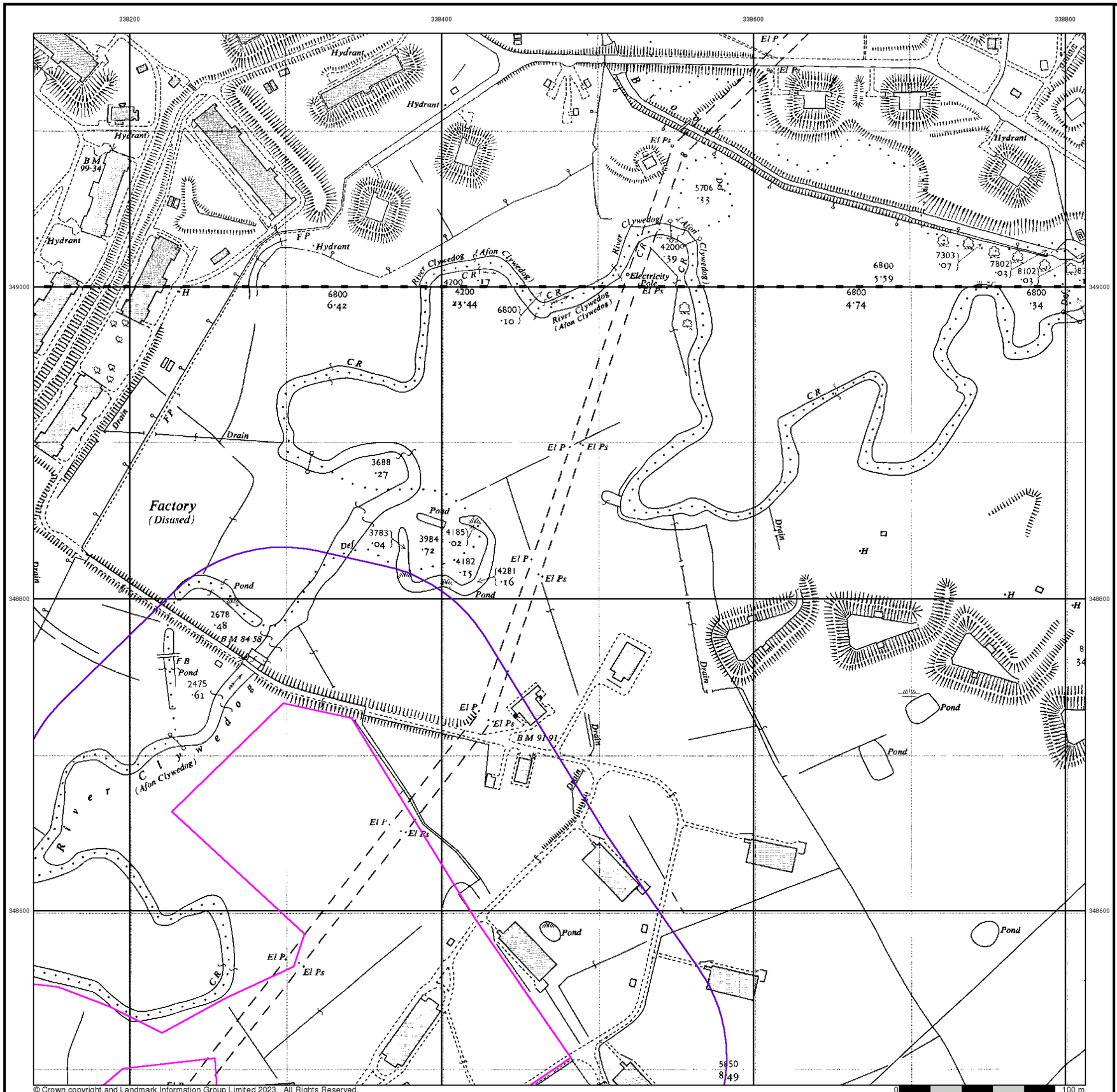


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Slice:	A
Site Area (Ha):	9.63
Search Buffer (m):	100

Site Details

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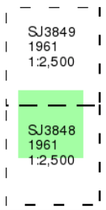
Ordnance Survey Plan

Published 1961

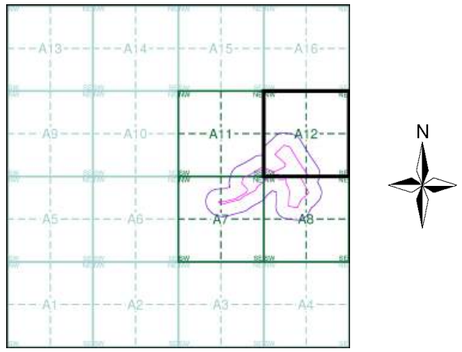
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Map Name(s) and Date(s)



Historical Map - Segment A12

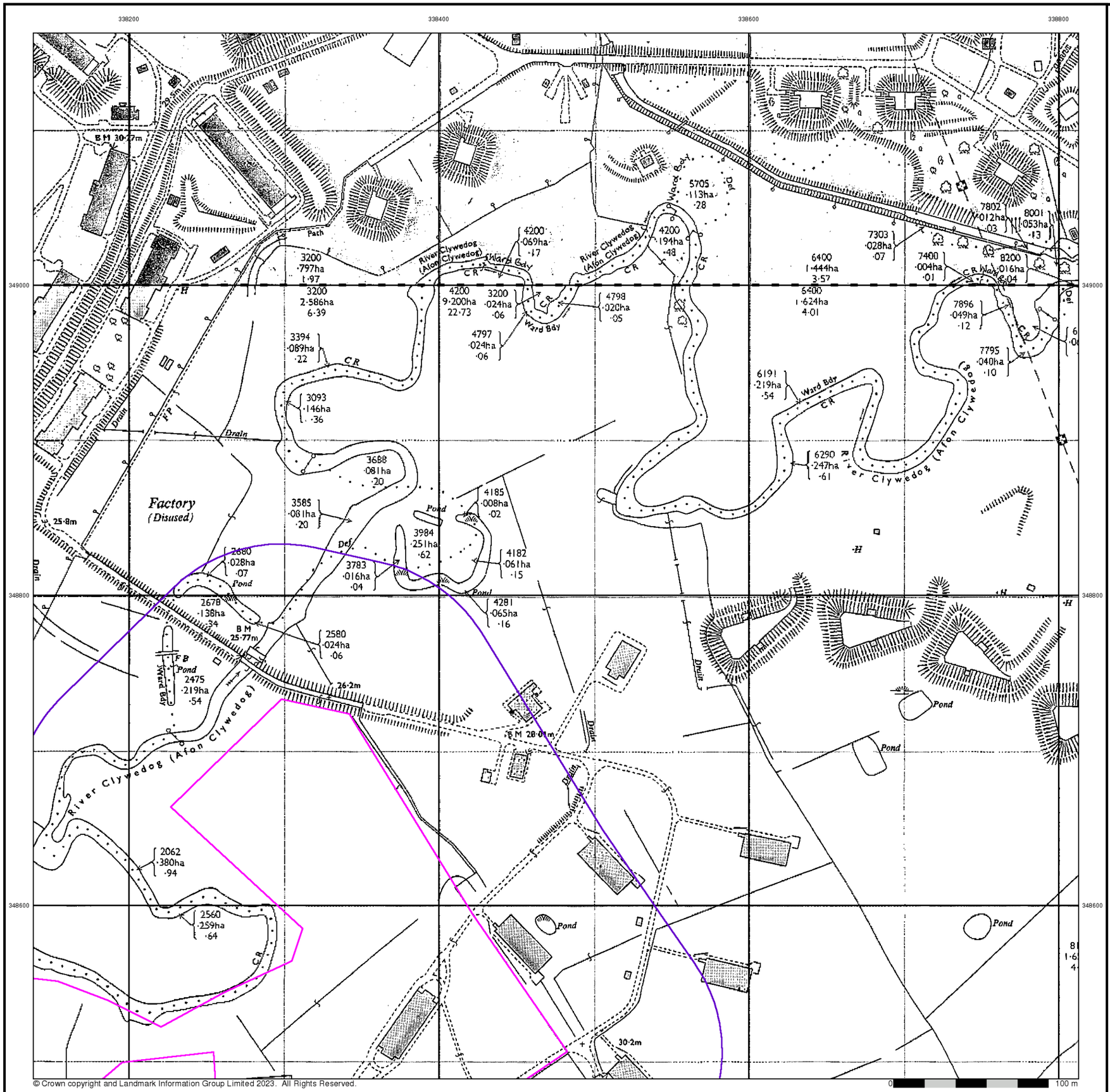


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Additional SIMs

Published 1961 - 1982

Source map scale - 1:2,500

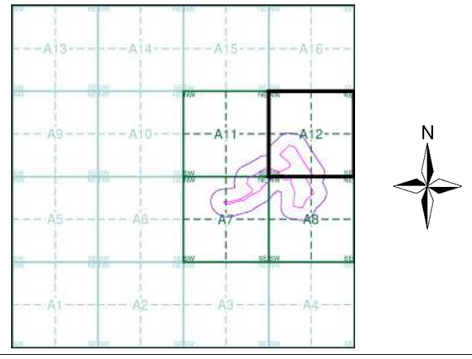
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ3849
1982
1:2,500

SJ3848
1961
1:2,500

Historical Map - Segment A12



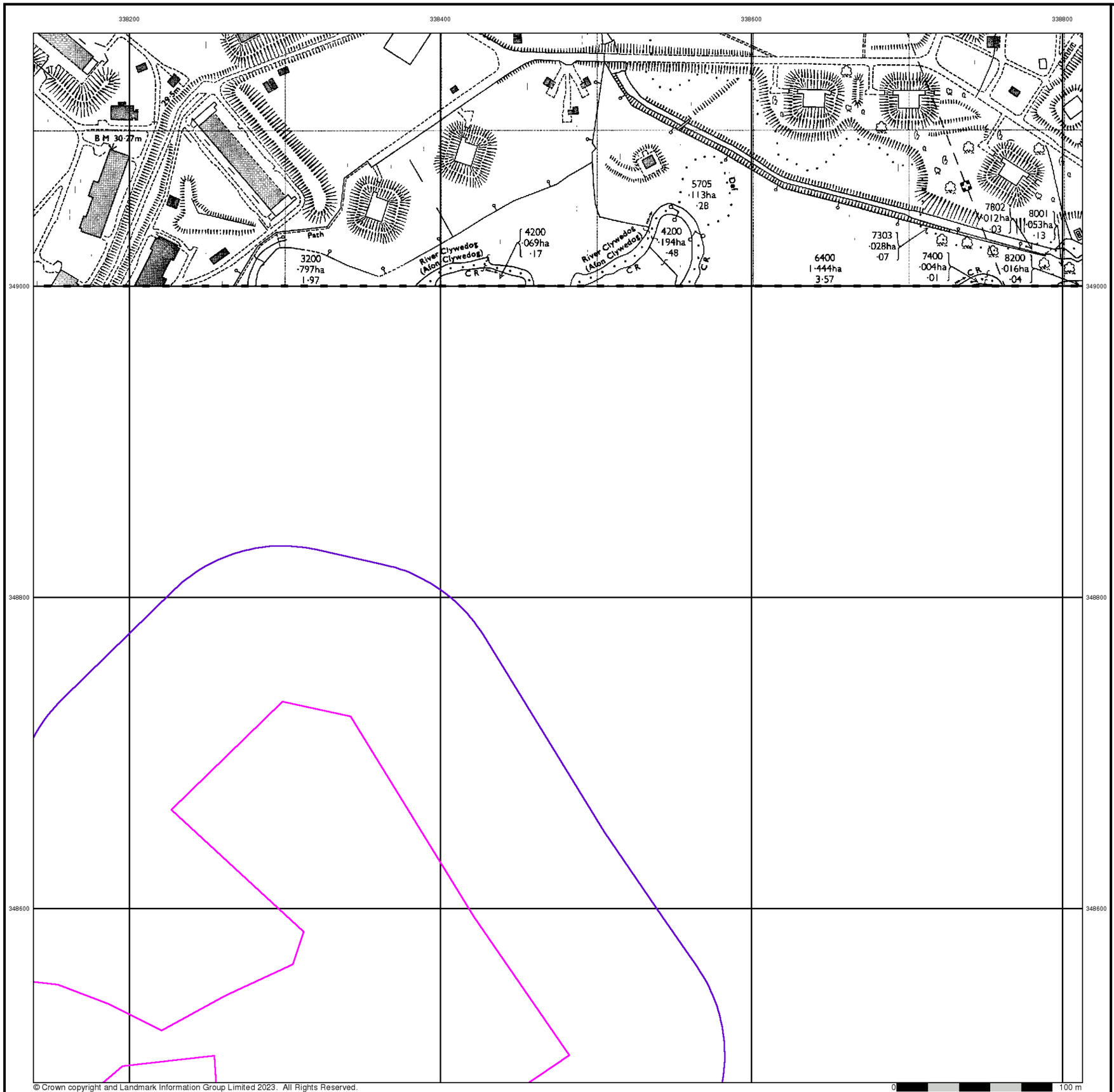
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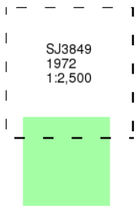
Ordnance Survey Plan

Published 1972

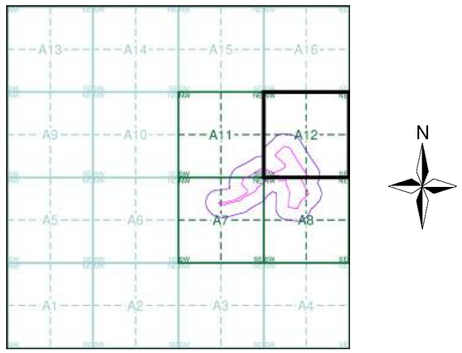
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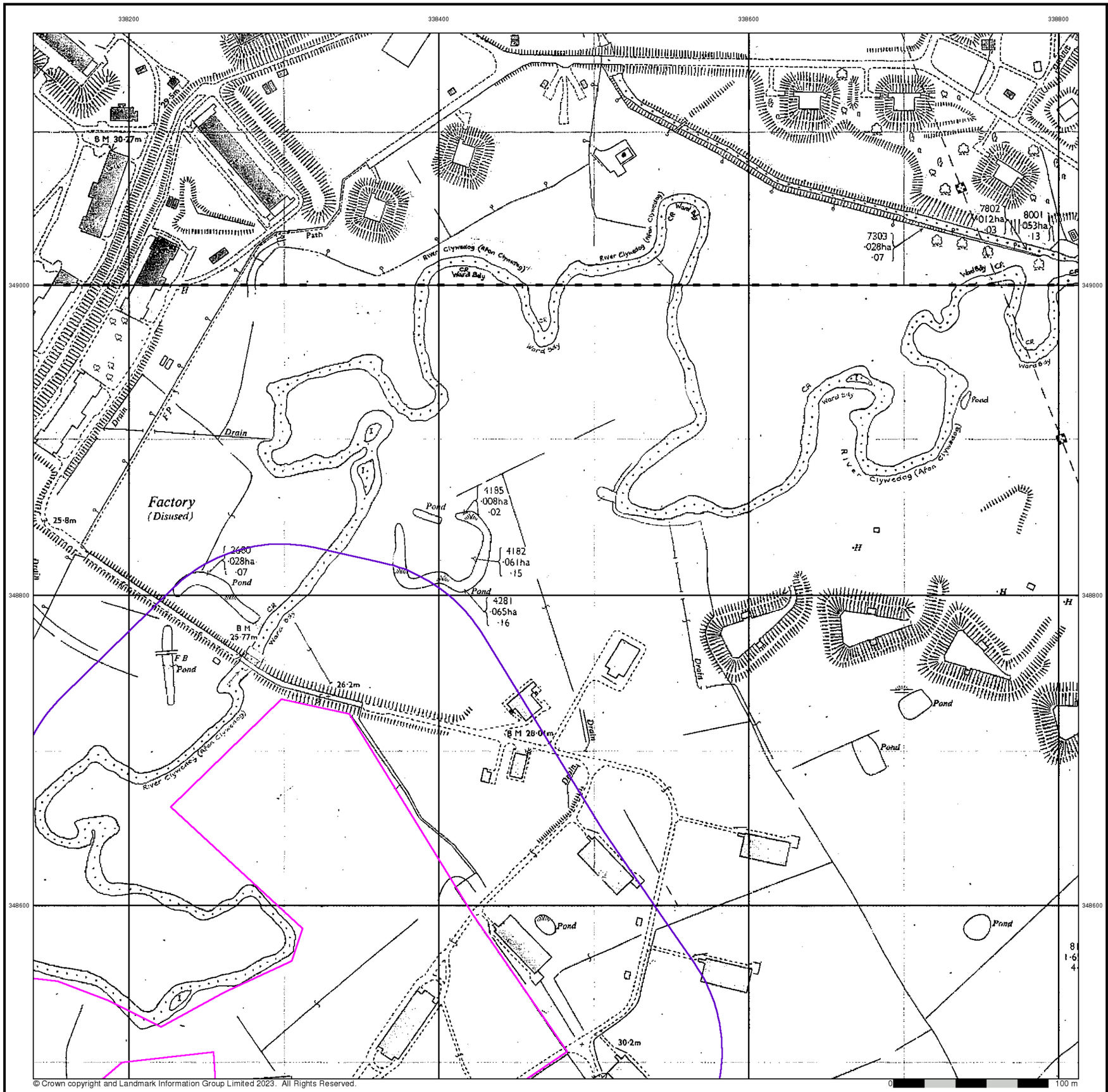
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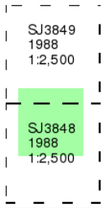
Additional SIMs

Published 1988

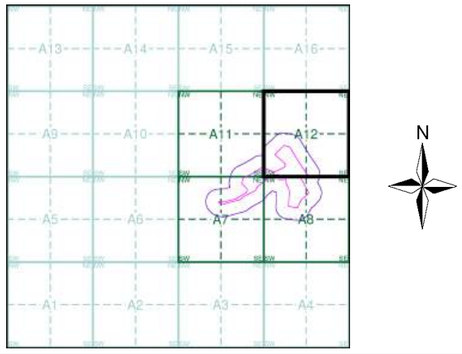
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



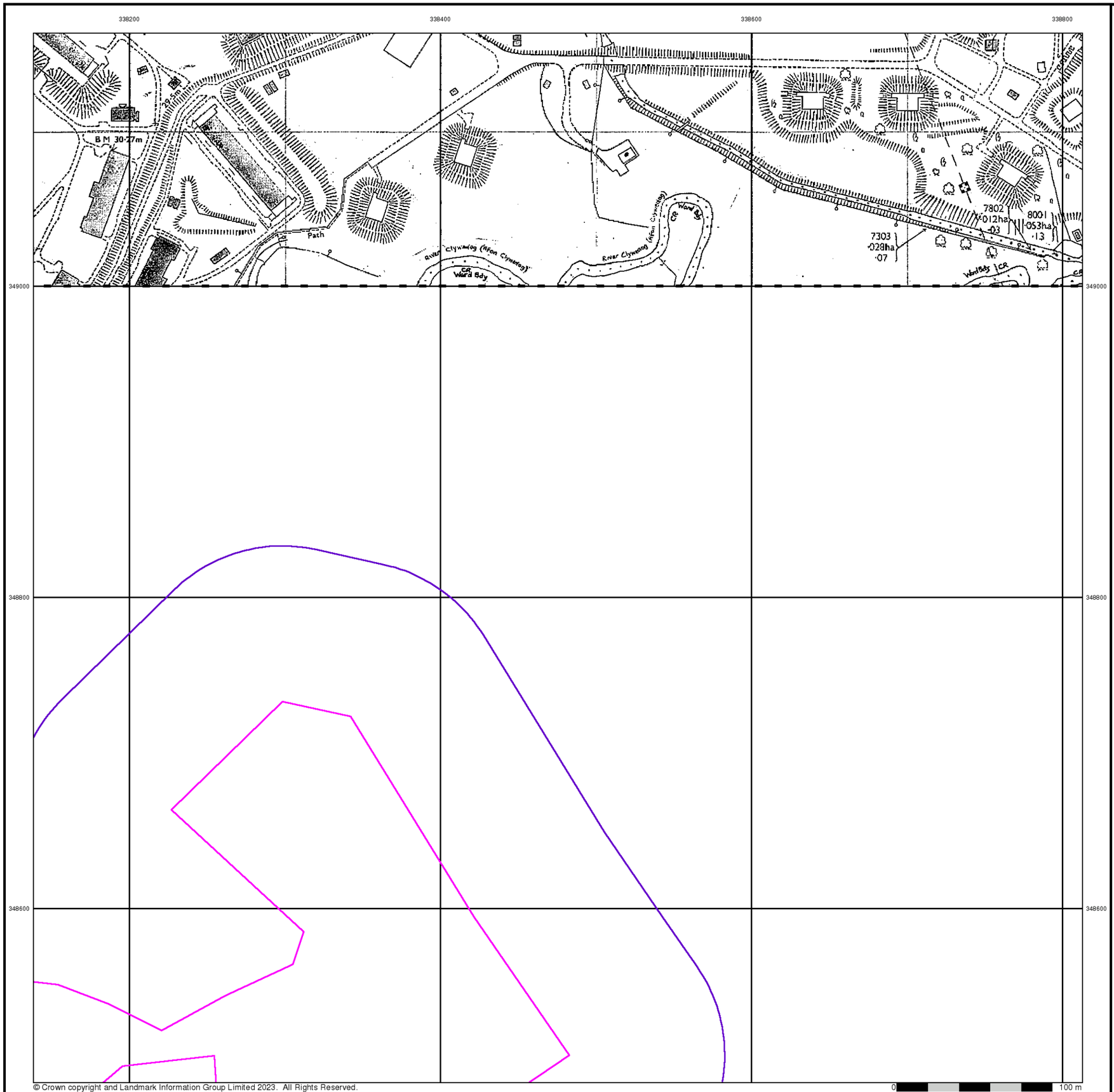
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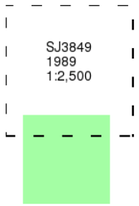
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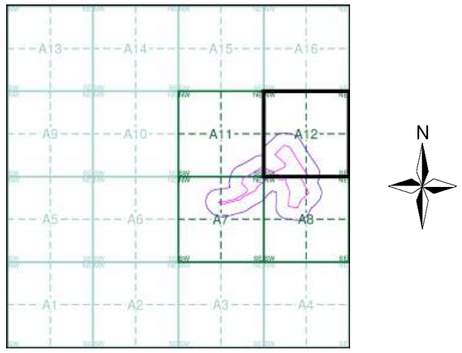
Source map scale - 1:2,500

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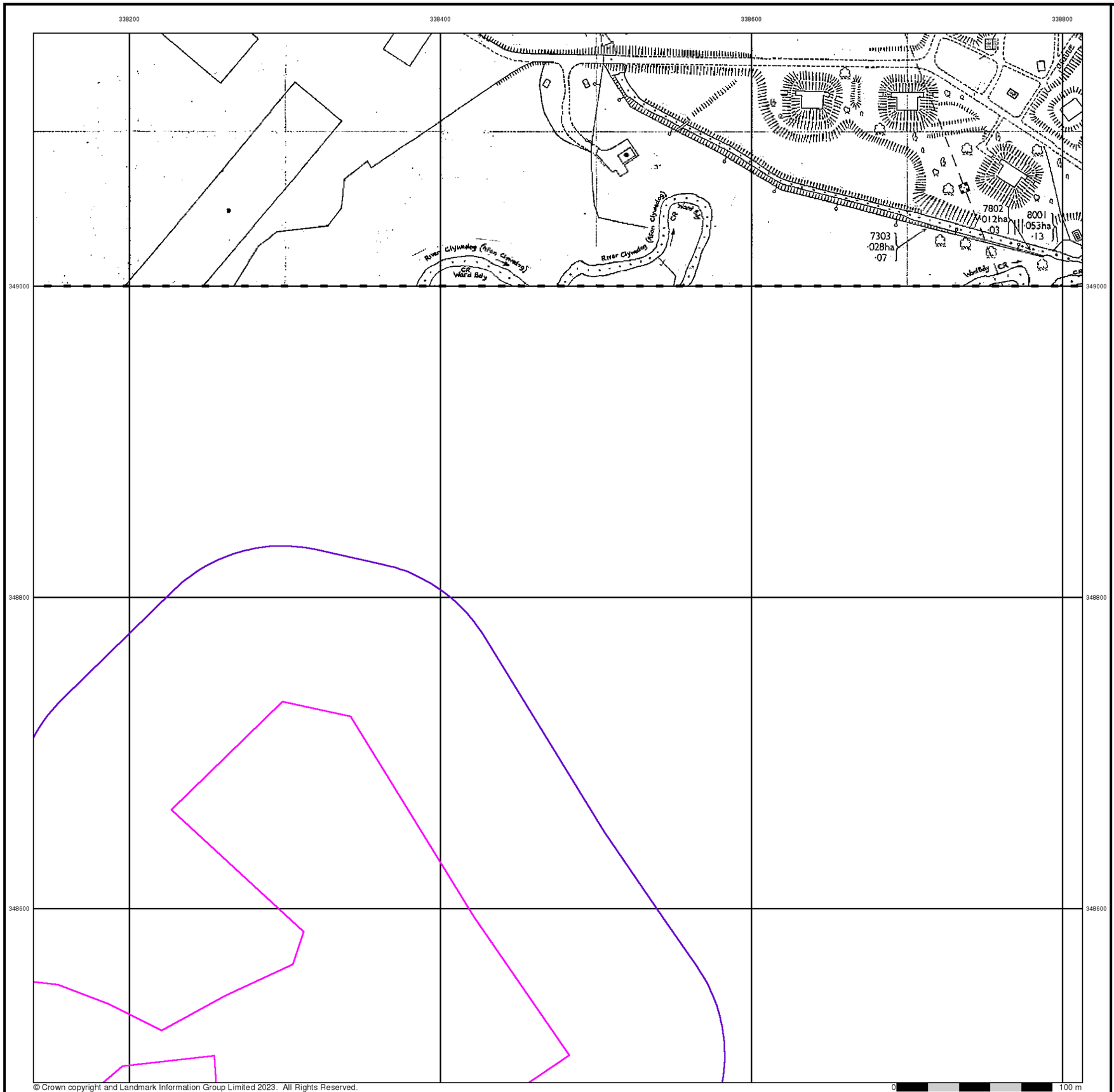
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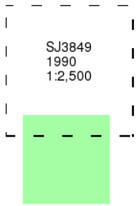
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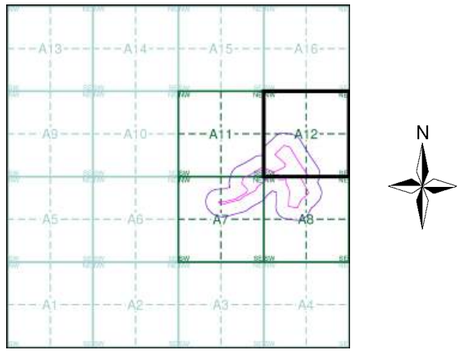
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

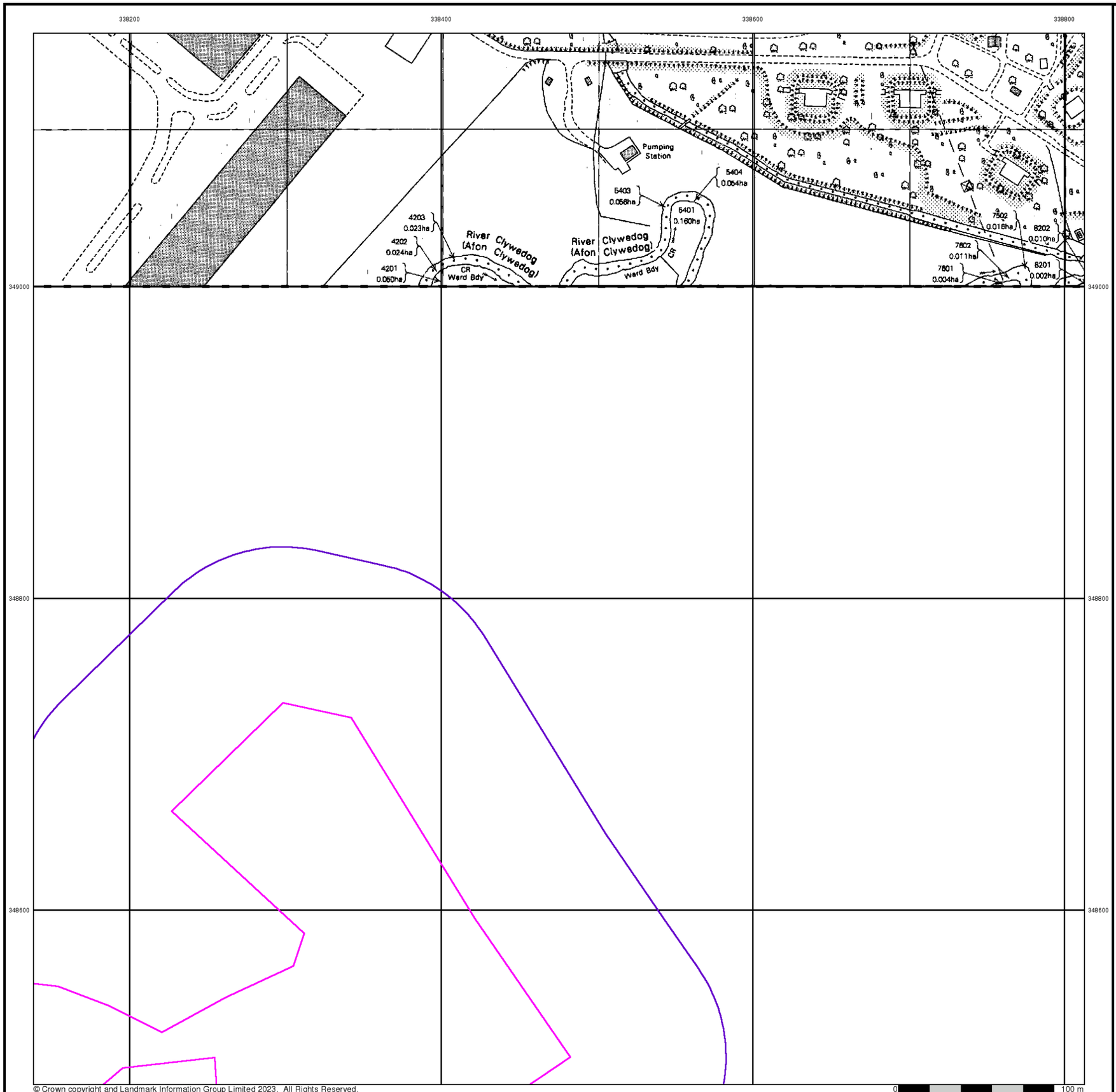
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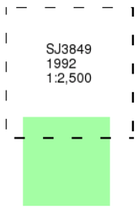
Ordnance Survey Plan

Published 1992

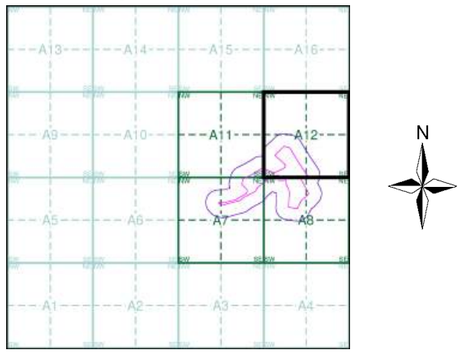
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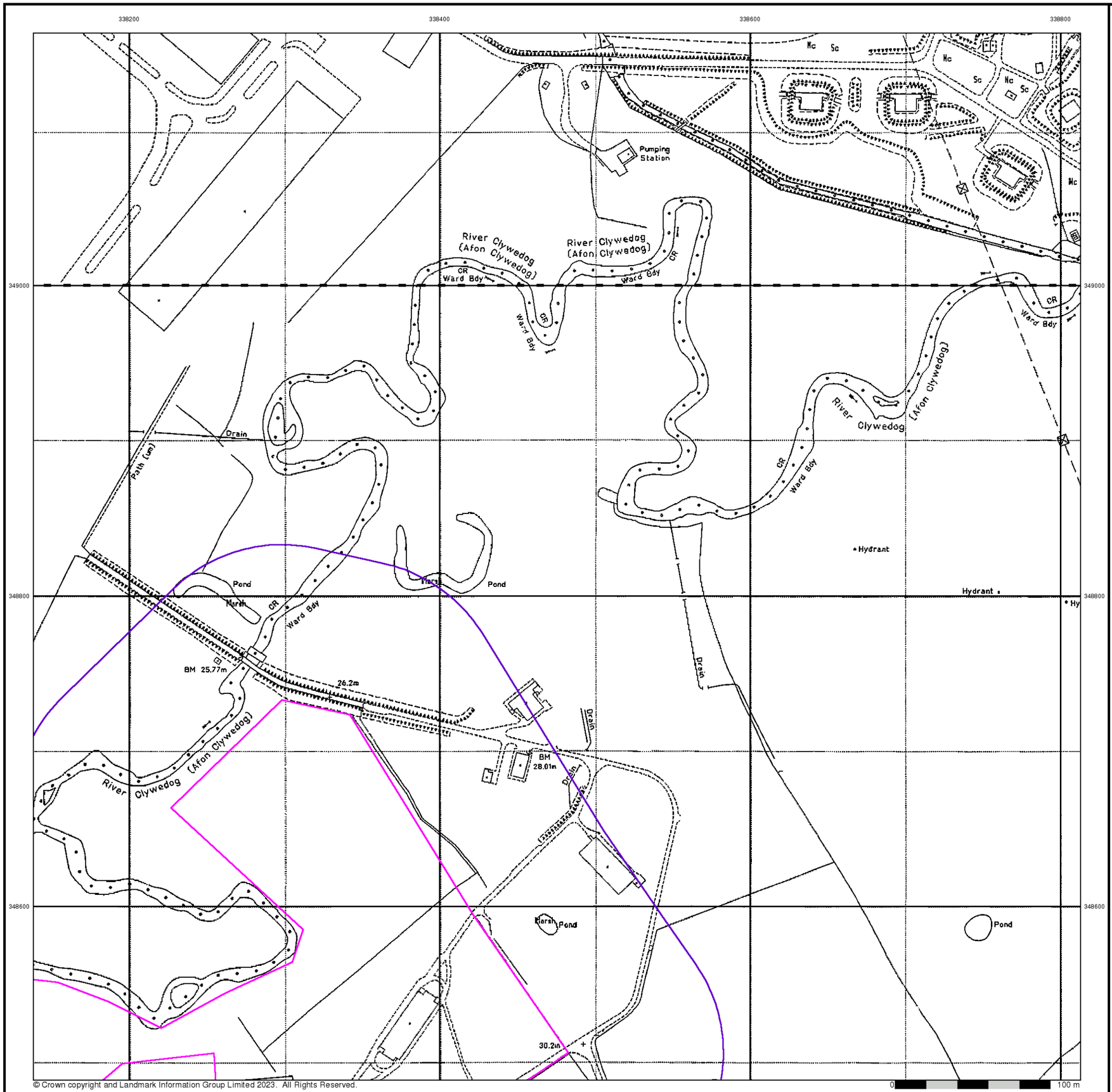
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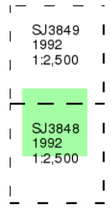
Large-Scale National Grid Data

Published 1992

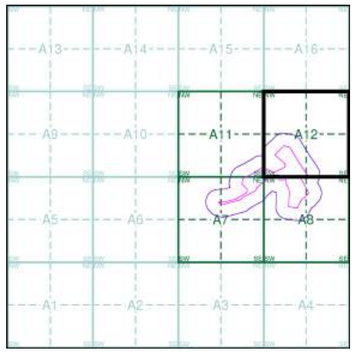
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



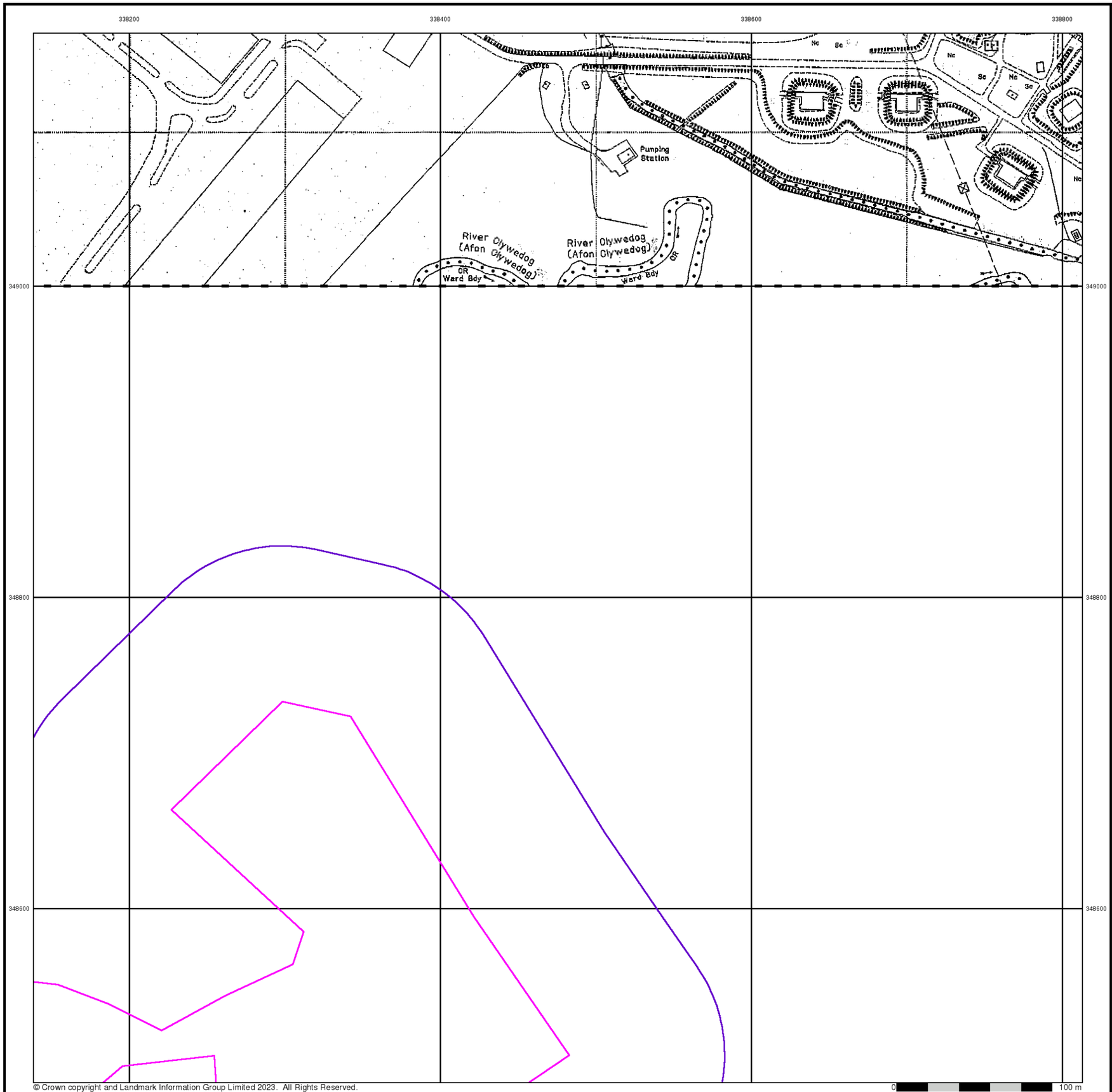
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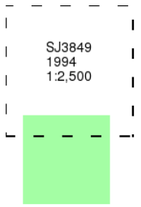
Large-Scale National Grid Data

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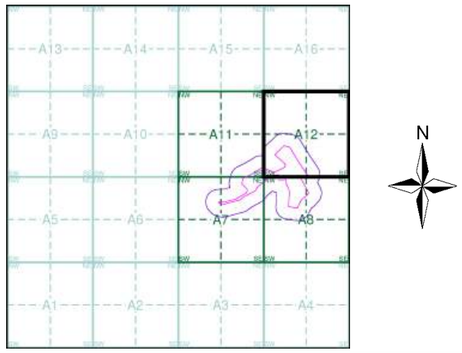
Source map scale - 1:2,500

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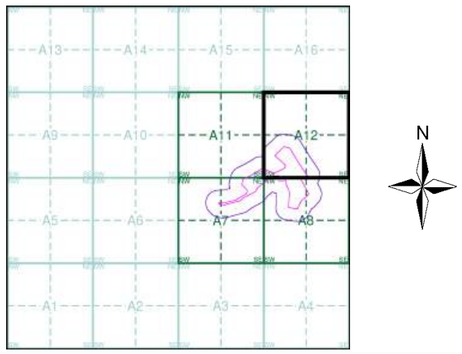


Historical Aerial Photography

Published 2003

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 A12



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APPENDIX C

RISK ASSESSMENT MATRIX

Preliminary Risk Assessment Methodology (After NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008))

NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008) sets out a methodology for the estimation of risk.

At Phase I the risk estimation will take the form of a qualitative risk assessment, which will be entirely based on the conceptual model for each potential end-use of the site. Comments on level of uncertainty will also need to be included for each source-pathway-target linkage to allow the confidence in the assessed risks to be understood. The results of the qualitative risk assessment will allow the risk evaluation to be concisely described in the following chapters.

The methodology for risk evaluation is a qualitative method for interpreting the output for the risk estimation stage of the assessment. It involves the classification of the:

The magnitude of probability (i.e. likelihood).
[takes into account both the presence of the hazard and receptor and the integrity of the pathway]

The magnitude of the potential consequence (i.e. severity).
[takes into account both the potential severity of the hazard and the sensitivity of the receptor]

Classification of Probability

Classification	Definition	Examples
High likelihood (Hi)	There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor or harm or pollution.	*Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden.* *Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years*
Likely (Li)	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.	*Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space.* *Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.*
Low likelihood (Lw)	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.	*Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space.* *Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.*
Unlikely (Ul)	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long term.	*Elevated concentrations of toxic contaminants are present below hardstanding.* *Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.*

Preliminary Risk Assessment Methodology (After NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008))

Classification of Consequence

	Definition	Examples
Severe (Sv)	Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs. A Category 1: Human Health risk is present. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long - term maintenance of the population. Catastrophic damage to crops, buildings or property.	*Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.* *Major fish kill in surface water from large spillage of contaminants from site.* *Highly elevated concentrations of List I and substances present in groundwater close to small potable abstraction (high sensitivity).* *Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).*
Medium (Md)	Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs. A Category 2: Human Health risk is present. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.	*Significant harm to humans is defined in circular 01/2006 as death, disease* serious injury, genetic mutation, birth defects or the impairment of reproductive functions.* *Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability.* *Ingress of contaminants through plastic potable water pipes.*
Mild (Ml)	Exposure to human health unlikely to lead to "significant harm". A Category 3 Human Health risk is present. Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population Minor damage to crops, buildings or property.	*Exposure could lead to slight short - term effects (e.g. mild skin rash).* *Surface spalling of concrete.*
Minor (Mr)	No measurable effect on humans.A Category 4: Human Health risk is present. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.	*The presence of contaminants at such concentrations that protective equipment is required during site works.* *The loss of plants in a landscaping scheme.* *Discolouration of concrete.*

* For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.

The classification of consequence does not take into account the probability of the consequence being realized. Therefore, there may be more than one consequence for a particular pollutant linkage. Both a severe and medium classification can result in death. Severe relates to short term (acute) risk while medium relates to long

term (chronic) risk. Mild relates to significant harm but to less sensitive receptors. Minor classification relates to harm which is not significant but could have a financial cost.

The classification gives a guide as to the severity and consequence of identified risk when compared with other risk presented on the site. It should be noted that if a risk is identified it cannot be classified as "no risk" but as "very low risk". Differing stakeholders may have a different view on the acceptability of a risk.

Risk Evaluation Matrix

		Consequence			
		Severe (Sv)	Medium (Md)	Mild (Mi)	Minor (Mr)
Probability	High likelihood (Hi)	Very high risk (VH)	High Risk (H)	Moderate Risk (M)	Mod/low risk (M/L)
	Likely (Li)	High risk (H)	Moderate risk (M)	Mod/low risk (M/L)	Low risk (L)
	Low likelihood (Lw)	Moderate risk (M)	Mod/low risk (M/L)	Low risk (L)	Very low risk (VL)
	Unlikely (Ul)	Mod/low risk (M/L)	Low risk (L)	Very low risk (VL)	Very low risk (VL)

Risk Categorizations

Very high risk (VH)	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realized, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High risk (H)	Harm is likely to arise to a designated receptor from an identified hazard. Realization of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate risk (M)	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term.
Low risk (L)	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Very low risk (VL)	There is a low possibility that harm could arise to a receptor. In the event of such harm being realized it is not likely to be severe.

Reference

Rudland, D J, Lancefield, R M, Mayell, P N; 2001; Contaminated land Risk Assessment. A guide to Good Practice; CIRIA Report C552.

The NHBC (National House-Building Council) the Environment Agency and the Chartered Institute of Environmental Health, 2008, Guidance for the Safe Development of Housing on Land Affected by Contamination R&D66.

APPENDIX D

COAL AUTHORITY MINING REPORT

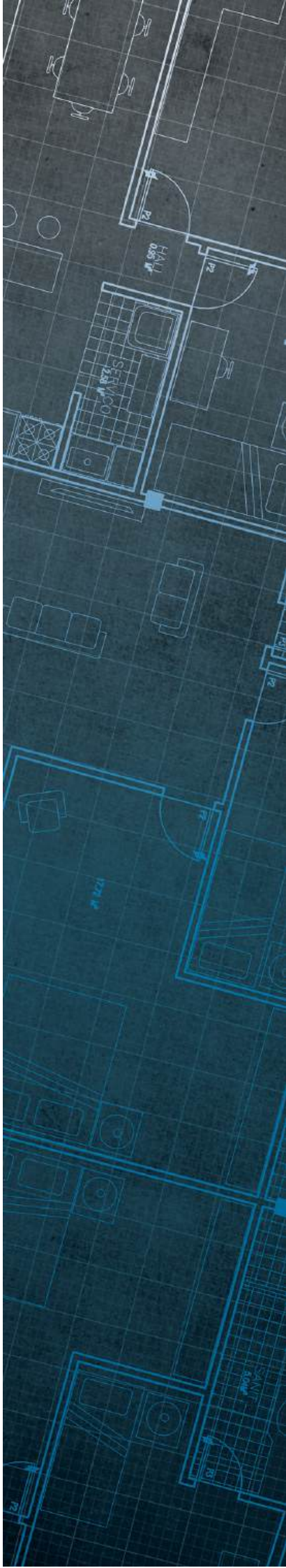
The Coal Authority

Consultants

Coal Mining Report

Solar Farm, Wrexham
Sesswick
Wrexham
LL13 0UT

Date of enquiry:	**29 November 2023**
Date enquiry received:	**29 November 2023**
Issue date:	**29 November 2023**
Our reference:	**51003392243001**
Your reference:	**326693727_1**



Consultants

Coal Mining Report

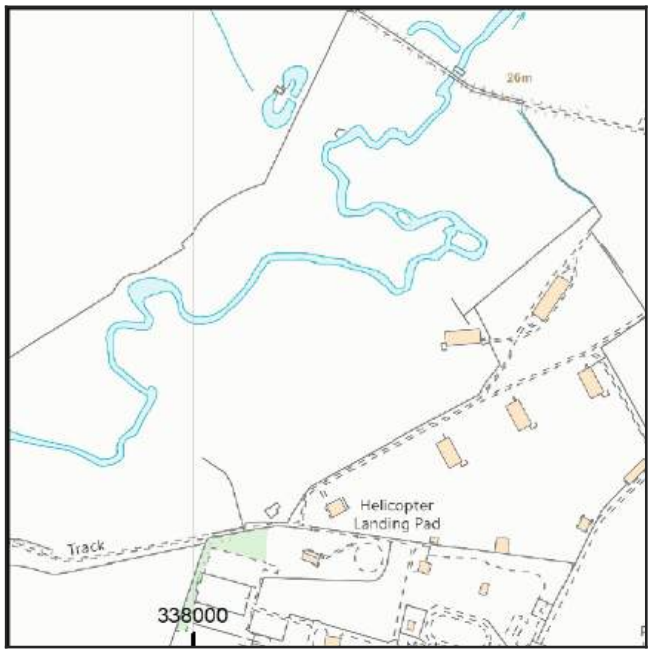
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Solar Farm, Wrexham
Sesswick
Wrexham
LL13 0UT



Approximate position of property

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/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
None.

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

Mine entries
None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers
None available.

Outcrops
No outcrops recorded.

Geological faults, fissures and breaklines
No faults, fissures or breaklines recorded.

Opencast mines
None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips
None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

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

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

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

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

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

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

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

Court orders
None recorded.

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

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1967 and 1968.

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

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

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Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

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

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

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Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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