

Castle Cement Limited

Carbon Capture and Storage Project-Padeswood, North Wales

Volume 4, Draft Technical Appendix 12.2

Coal Mining Risk Assessment





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1 INTRODUCTION

- 1.1.1 RSK was commissioned by Castle Cement Limited, operating under the trading name of Heidelberg Materials UK (hereafter referred to as the 'Applicant') to complete a Coal Mining Risk Assessment (CMRA) of the existing Padeswood Cement Works (the 'Site'), as part of the Environmental Impact Assessment process for the development of a Carbon Capture and Storage (CCS) Project (hereafter referred to as the 'Proposed Development').
- 1.1.2 The Site is located to the south of Chester Road, to the west of the village of Penyffordd and to the east of Padeswood. It is currently occupied by a cement works. **Figure 1** shows the site location.
- 1.1.3 The Proposed Development will primarily incorporate a Combined Heat and Power (CHP) plant and a Post Combustion Carbon Capture and Compression (PCCCC) plant, as well as associated amendments to the existing Site infrastructure. Full details of the proposals are provided in Section 2 of the Information to Support a Scoping Opinion Request document¹.
- 1.1.4 This assessment has been prepared in response to the Scoping Direction issued by Planning and Environment Decisions Wales (PEDW) (Ref. DNS CAS-02009-W1R1ZT). The Scoping Direction was issued based on the Scoping Report submitted to PEDW on 04 November 2022 and states at ID 1.3:

'Based on information obtained from NRW and Coal Authority contained at Appendix 1 that the site is located within a Development High Risk Area, as well as the site's history as a landfill site, along with current site investigation work being undertaken in connection with another planning application at the same site, PEDW is of the same opinion as the consultees and disagrees that Land and Soil can be scoped out of the ES.

A full assessment of the potential risk associated with the mine entries and potential for land contamination on site should be included in the ES and the significance of impacts on land and soil (including human health) should be reported along with mitigation measures. The Applicant is also reminded that the construction of the connection pipeline between the proposed development and HyNet should be part of the assessment.'

- 1.1.5 The assessment provided in this report is required due to some sections of the Site being situated within an area defined by the Coal Authority as a Coal Mining Development High Risk Area. The full site area is within a Coal Mining Reporting Area.
- 1.1.6 The Coal Authority, in common with other statutory consultees, utilises a risk-based approach for the advice that they offer on proposed developments in relation to coal

¹ See Information to Support a Scoping Opinion Request dates 04 November 2022. RSK reference: 663575 Castle Cement Limited



- mining legacy issues. It is a requirement for High-Risk areas to prepare a desk-based CMRA to support planning applications.
- 1.1.7 A CMRA needs to consider a number of sources of information to determine coal mining issues relevant to a site. It then needs to identify and assess the site-specific coal mining risks and propose an appropriate mitigation strategy (if required) relevant for the site end-use. This approach has been followed in the current assessment.
- 1.1.8 Guidance from the Coal Authority outlines the assessment stages required for a CMRA, which are included in the following sections of this report:
- 1.1.9 Stage 1 Sources of information:
 - Sections 1 and 2 provide background information; and
 - Section 3 presents available desk-based information.
- 1.1.10 Stage 2 Assessment of site-specific coal mining risks:
 - Section 4 presents an assessment of the site-specific coal mining risks.
- 1.1.11 Stage 3 Proposed mitigation strategy:
 - Section 5 presents the required mitigation measures to address the identified risks.

1.2 Scope of Coal Mining Risk Assessment

- 1.2.1 The scope of this CMRA is to:
 - Present a review of all available information on the coal mining issues which are relevant to the Site;
 - Use that information to identify and assess potential risks to any proposed redevelopment of the Site due to the coal mining legacy; and
 - Identify any required mitigation measures to address the site-specific coal mining risks.
- 1.2.2 It should be noted that this assessment covers the full boundary of the Site. However, as the locations for specific elements of the Proposed Development have been agreed within the boundary, specific comments and conclusions relate to the development areas (as detailed within the relevant sections, with the area boundaries depicted on **Figure 2**).

1.3 Limitations

1.3.1 The comments given in this report and the opinions expressed are based on information gained in the desk study, the sources of which are presented within the report for reference. This report is subject to the RSK service constraints given in **Appendix A**.



2 THE SITE

2.1.1 Site location details are presented in **Table 2.1** and a site location plan is provided on **Figure 1**.

Table 2.1 Site location details

Site name	Padeswood Cement Works
Full site address and postcode	Chester Road, Mold, CH7 4HB
National Grid reference (centre of site)	329130 362257

- 2.1.2 The Site boundary, current site layout and Proposed Development are shown on **Figure 2**. The Site covers an area of approximately 70.9ha and is currently predominantly occupied by a cement works.
- 2.1.3 The main cement works buildings and infrastructure are located in the central area of the Site, with some areas of the Site used as fields and sports pitches, with wooded areas present in some parts. A row of residential houses is present along Padeswood Drive within the north eastern section of the Site and Padeswood Hall is located in the north west section (formerly used as offices, but currently derelict). The Site boundaries are defined to the east by the Wrexham to Connah's Quay railway line, to the north by Chester Road, to the south by a former railway line (L&NWR Chester and Mold Branch) and to the west by agricultural land.

2.2 Geology

2.2.1 Geological records for the area and available historical borehole logs taken from the British Geological Survey (BGS) (2023) data, indicate the geology of the Site to be as detailed in **Table 2.2**. There are seven publicly available BGS historical boreholes located on or within 250m of the Site, copies of which are presented in **Appendix E**. There are also five private BGS historical records located in the central part of the Site, which were not available for review.

Table 1.2 Site geology

Strata	Description	Estimated Thickness	Permeability
Made ground	Material placed or deposited during human activity and/or development of the Site. Located along southern former railway and in three main locations within the Site (centre south, centre north and east centre), potentially	Unknown	Variable



Strata	Description	Estimated Thickness	Permeability	
	associated with former coal shafts and quarrying activity.			
Devensian Till	Consisting of a mixture of clay, sand, gravel, and boulders varying widely in size and shape. Covering majority of the Site.	Unknown	Secondary aquifer, undifferentiated	
Head deposits	Clay, silt, sand and gravel. Interpreted to be present in a small area along western half of southern Site boundary.	Unknown	Secondary aquifer, undifferentiated	
Pennine Lower Coal Measures	Mudstone, siltstone and sandstone with coal seams. Present across most of the northern and central parts of the Site, with some faulting evident.	500m+	Secondary A aquifer	
Pennine Middle Coal Measures	Interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams. Present in the northwestern, central-northern and extreme north eastern parts of the Site.	Up to 200m	Secondary A aquifer	
Gwespyr Sandstone	Fine-grained, sandstones, with some siltstone and mudstone beds. Present in the south east and south west parts of the Site.	Up to 260m	Secondary A aquifer	

- 2.2.2 Geological faulting is present across the Site, with major faults shown crossing approximately north to south on the eastern boundary and through the centre of the Site.
- 2.2.3 Coal seams are also present, sub-cropping beneath the superficial units, running roughly east to west between the fault lines, within the northern and central sections of the Site.
- 2.2.4 With reference to the historical information, there have clearly been several phases of development on the Site, including mineral extraction and coal mining and therefore the presence of made ground should be expected.
 - A review of information provided on the borehole records from the BGS shows that most of these relate to mine shafts, with little information available beyond the actual shaft location. Data provided is summarised below for each of the seven records;
 - Borehole reference SJ26SE589, located in the north east corner of the Site, to the east of the residential properties. Listed as a coal shaft that was sunk within a fault zone. No depth or details of geology provided;
 - Borehole reference SJ26SE588, within the woodland area where the Eco Centre is located. Reported to be a shaft associated with Padeswood Hall



- Colliery. A depression was observed in this location in 1985. No other details available:
- Borehole reference SJ26SE1088, off-site to the south, close to the southeastern corner. There is a note on the record indicating that the position was not definite. The details indicate the shaft reached the Cannel coal seam (1.20m thickness) at a depth of 25.60m bgl;
- Borehole reference SJ26SE587, located within the fields to the east of the Eco Centre. This was also a mine shaft associated with Padeswood Hall Colliery, reaching possibly the Premier coal seam (or potentially a higher seam), at a depth of 45.72m;
- Borehole reference SJ26SE586 and borehole reference SJ26SE15, located close to the centre of the Site, in the woodland west of the Eco Centre. These were adjacent pits (an 'upcast' and 'downcast' shaft) reaching a total depth of 110.95m bgl. Geological information is provided on these records, indicated superficial sand and gravel deposits to 18.28m, sandstone bedrock to 104.24m and coal from 109.72m to 110.94m (two leaves of coal with an intermediate layer recorded as 'Black Bars'); and
- Borehole reference SJ26SE115, located between Padeswood Hall and Padeswood Hall Farm buildings. This indicated the presence of superficial deposits to 18.30m bgl, with bedrock classified as Coal Measures present to 330.10m.
- 2.2.5 The following BGS maps were reviewed as part of the CMRA, in addition to the data obtained as part of the PRA:
 - Map Sheet SJ 26 SE solid and drift edition, 1:10,560 scale, dated 1986, 1989 and 1993; and
 - Map Sheet 108 solid & drift edition, 1:50,000 scale, dated 1999.
- 2.2.6 **Figure 3** shows a section of 1:50,000 map sheet 108 and **Figure 4** provides a section of 1:10,000 map sheet SJ 26 SE. Additional BGS geological maps are shown in **Appendix F.** Further information taken from these maps provides the following additional details:
- 2.2.7 The geological unit within the Pennine Lower Coal Measures that underlies the majority of the Site is known as the Bettisfield Formation and comprises grey mudstones and siltstones with coals and local sandstones. Middle Pennine Coal Measures are shown to underlie the central northern, north western and extreme north eastern parts of the Site. The Gwespyr Sandstone is indicated to be present beneath the superficial units in the south western and south eastern corners of the Site.
- 2.2.8 The Coal Measures and Gwespyr Sandstone units have been subjected to extensive faulting, with north to south and west to east orientated faults present crossing the Site. To the west of the westernmost fault, coal seams are present beneath the Site which are not found in the central area due to the action of the faulting. The mapping information is ambiguous with regards the direction of faulting. In the south eastern



area, a coal seam (indicated to be the Premier coal) present on the northern side of a fault does not continue on the southern side.

- 2.2.9 The following coal seams are shown by geological maps to be present beneath the Site:
 - Black Bed (Rough) coal seam (denoted as BB on the mapping), which is recorded as 0.3m to 1.04m thick. The outcrop of this seam is present in the very far north eastern corner of the Site, orientated north west to south east;
 - Main coal seam (M), which is recorded as 1.80m to 3.66m. The outcrop crosses the north eastern Site corner, parallel to and approximately 40m south of the Black Bed seam:
 - Lower Bench coal seam (LB), which is recorded as 0.30m to 1.73m. This runs parallel to and approximately 30m south of the Main coal seam;
 - Upper Red (King) coal seam (K or UR), which is recorded as up to 1.80m thick. This runs parallel to and approximately 95m south of the Lower Bench seam; and
 - Premier coal seam (P), which is recorded as 0.99m to 1.52m. This is found in
 the south eastern section of the Site in an area identified on mapping as
 having been quarried and infilled, between the central north to south trending
 fault and the southern east to west trending fault, with the coal seam
 orientated in a north west to south east direction.
- 2.2.10 To the west of the western fault there is a series of four coal seams, the northernmost of which only outcrops on-site for a short distance. The on-site outcrop length then increases southwards. These are listed below, with the youngest (shallowest and northernmost) first:
 - Nant coal seam (N), present close to the centre of the western boundary, with a recorded thickness of 0.38m to 3.35m:
 - Ruabon Yard coal seam (Y), just south of the Nant coal seam, with a thickness of 0.76m to 2.21m;
 - Premier coal seam (P), as mentioned above, as well as being found in the south eastern area, this seam is present on the western side of the fault; and
 - Llwyneinion Half Yard (Half Yard) coal seam (1/2 Y or LL-Y), present south of and parallel to the Premier coal seam. The thickness is recorded as 0.40m to 0.50m.
- 2.2.11 The following seams are not shown on geological maps as being present within the Site boundary, but are conjectured to be present beneath the Site based on their likely presence within the sequence of the Middle Pennine Coal Measures unit in the northern part of the Site:
 - Hollin (H) conjectured to be present, thickness recorded as 1.22 to 2.44m;
 - Crank (Cr or C) conjectured to be present, thickness recorded as 0.30 to 0.61m; and
 - Quaker (or Brassey, Q or B), thickness recorded as 0.76 to 1.07m.
- 2.2.12 Coal seams are largely absent from geological mapping for a large swathe through the centre of the Site. Despite not being shown on maps, coal seams within the Lower and Middle Coal Measures are likely to be present between the mapped



Premier Coal seam (shown to be present by maps in the south of the Site) and the youngest coal seam shown on mapping to subcrop beneath the Site – the Black Bed (BB), which is present in the extreme north eastern corner. It is unclear why BGS mapping does not show potentially considerable coal seams beneath much of the Site. The conjectured coal seams and their locations beneath the Site are shown of **Figure 5.**

- 2.2.13 There is no clear indication of the dip of the geological units shown on the maps that have been reviewed, although it is assumed that coal seams largely dip towards the north east, based on the location of shafts compared to seam subcrops. The Coal Authority abandonment plan (included at **Appendix D**) includes an annotation that describes a 1 in 3 dip to the east.
- 2.2.14 The Gazetteer of North Wales Collieries (Denbighshire and Flintshire) indicates that Padeswood Colliery (or Padeswood Hall Colliery) was listed as being operational in 1880 and 1886. A local history website called Industrial Gwent provides a note that the Padeswood Hall Colliery Company was formed in 1876, and was associated with the Padeswood United Cannel Coal and Iron Company (producing bricks).
- 2.2.15 The generalised sequence of Carboniferous rocks from the area are shown within the legend on **Figure 4** (1:10,000 scale geological map).



3 COAL MINING DESK STUDY

3.1 Introduction

- 3.1.1 A review of available information has been undertaken to establish the historical development of the Site in relation to coal mining activities and to ascertain their influence on the current and proposed future site development. The following sources of information have been used within the review:
 - Historical Ordnance Survey mapping (1871-2022) available within a site-specific Environmental database report (Envirocheck report, reference 304808740 1 1, dated 07 December 2022, provided in Appendix B);
 - Coal Authority Consultants Mining Report, The Coal Authority, reference 51003330299001, dated 07 December 2022 (presented in **Appendix C**);
 - British Geological Society borehole logs (provided in Appendix E);
 - Abandonment plan reference 4215 for Hollin Coal Workings, Padeswood Hall Colliery, obtained from the Coal Authority Mining Records Office (shown in Appendix D), dated 1902;
 - BGS Map Sheet 108 solid & drift edition, 1:50,000 scale, dated 1999) (see Figure 3); and
 - BGS Map Sheet SJ 26 SE solid and drift edition sheets, 1:10,000 scale, dated 1986, '89 and '93 (see **Figure 4** for a reproduction of the 1993 map).

3.2 Site history

3.2.1 The site history based on information from historical plans (provided in **Appendix B**) is provided in this section.

Table 2.1 Site history

Date	Historical Details
1869	The Site mainly comprises small fields, with a section of railway curve (disused) crossing the south eastern corner. This appears to be on an embankment, potentially indicative of the presence of made ground. The only buildings present are around Padeswood Hall in the north west, and some smaller buildings in the north east (later marked as Bannel Farm). Just off-site along the eastern and southern boundaries are railway lines. Chester Road is present along the northern boundary. A small building (appearing to be residential) is located in the centre-south of the Site.
	An area of woodland is present in the centre east, part of which is labelled as containing disused coal shafts and two areas of water. A further coal shaft is marked on the far northern edge of the Site, towards the east.
	A stream is shown crossing the Site from the north east corner to the centre of the southern boundary (flowing southwards). A well is marked in the north eastern section of the Site.
1871	No significant changes.



Date	Historical Details
1899	The area around the coal shafts is now labelled as Padeswood Colliery, including a number of buildings, areas of spoil and a railway line entering the Site in the north eastern corner.
1912	The area of Padeswood Colliery is now shown as a spoil heap and although old shafts are shown there is no other remaining infrastructure. The rail lines from the colliery to the north east site corner have been removed.
1954	Site features already reported remain in place and a cement works is now also present in the southern central area (south and west of the colliery area). Features include an access track from Chester Road, a number of large buildings and tanks and a branch railway line entering the Site from the east and splitting into two tracks running east to west.
1961	Significant changes are evident on this map edition.
	The cement works now occupies a larger area of the Site, comprising a band across the centre from west to east. Large gravel pits are present south of the buildings.
	To the east of Padeswood Hall, Padeswood Hall Farm is now present (buildings and surfaced areas).
	Residential properties have been constructed along Chester Road, between the northerly coal shaft and Padeswood Hall Farm, with sports fields just south of the properties.
	The former colliery area is now shown as an area of spoil with two marked disused shafts. The southern section of the former colliery appears to be a spoil heap serviced by a conveyor.
	Overhead electric cables are present in the far south eastern corner of the Site and entering the Site in the north western corner, passing down the western site and exiting in the centre of the southern boundary.
1967	The western line of overhead cables is no longer shown to be present.
1970	The large gravel pits south of the cement works are no longer shown.
1977	A small square building is present in the corner of a field at the western end of the cement works buildings, which is later labelled as an electricity substation.
1999	The lagoons are no longer marked 1999 mapping.
2009	Additional cement works buildings are added on the southern extent of the cement works area within the central band of the Site. A large surface water feature appears in the centre of the southern area of the Site, with two other surface water features to the east.
2013	Additional surface water features appear in the south western corner of the Site (two ponds/reservoirs) and along the centre of the southern boundary.



- 3.2.2 The land surrounding the Site has been predominantly in agricultural usage since the earliest editions of historical mapping (1867), with little change evident on subsequent maps. The only development of significance is the sewage works present off-site to the west, approximately 500m from the Site at its closest point.
- 3.2.3 It should be noted that although reference to published historical maps provides invaluable information regarding the land use history of the Site, historical evidence may be incomplete for the period pre-dating the first edition and between successive maps.
- 3.2.4 In summary, the key features relating to coal mining that have been identified from historical maps are:
 - Coal shafts in the central and north eastern areas of the Site; and
 - A former colliery in the centre of the Site.

3.3 Identified coal mining risks

3.3.1 **Table 3.2** summarises potential risks associated with coal mining and identifies those that are applicable to the Site as identified in the Coal Authority Consultants Coal Mining Report (CCMR).

Table 3.2 Identification of site-specific coal mining risks

Coal mining issue	Present on site	Risk assessment
Underground coal mining (recorded at shallow depths)	Yes	Assessment required
Probable additional unrecorded shallow underground coal mining	No	N/A
Mine entries (shafts and adits)	Yes	Assessment required
Coal mining geology (faults and fissures)	Yes	Assessment required
Record of past mine gas emissions or potential	No	Desk based review will consider this, but not thought to be an issue
Recorded coal mining surface hazard	No	Desk based review will consider this, but not thought to be an issue
Surface mining (opencast workings)	No	N/A



3.3.2 Where risks identified in **Table 3.2** require assessment, this is provided in subsequent sections of this report.

3.4 Coal Authority mining report

- 3.4.1 A Coal Authority Consultants report for the full site boundary has been obtained as part of this CMRA and is included in **Appendix C**.
- 3.4.2 The key findings from the Coal Authority report are detailed below:
 - The Site is in an area with records of underground mining at shallow depths, with the last year of working given as 1901. Coal seams are indicated to be present beneath the Site at depths ranging from 14m to 40m bgl. These are all identified as the 'Hollin Seam', although this does not correlate to geological maps, which do not show the Hollin seam to subcrop beneath or close to the Site. It is likely that the coal identified at 14m depth represents the Premier (P) coal seam shown on geological maps in the southern part of the Site within an area of former quarrying the assumption being that this coal was encountered during quarrying activity noted to have taken place in this part of the Site;
 - There are not expected to be any unrecorded shallow workings below the Site due to the likely thickness of superficial deposits;
 - No mine spine roadways have been recorded associated with the Site;
 - There are five mine shafts located within the Site boundary, and one located off-site, within 60m of the Site boundary;
 - Geological faults are present on the Site;
 - There are no recorded opencast mines on-site or within 500m of the Site boundary;
 - There are no Coal Authority managed tips within 500m of the Site;
 - There is no current underground mining within the Site area;
 - No notices have been given, under Section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence; and
 - There are no recorded plans for future underground mining.



Coal Authority plans and information

3.4.3 Information provided by the Coal Authority is discussed in further detail in the following sections.

Mine entry data

3.4.4 Five mine shafts are present within the Site, with one further shaft located just outside the Site boundary to the south, as detailed in the Coal Authority information and OS mapping. The available information is summarised in **Table 3.3**.

Table 3.3 Summary of Coal Authority mine shaft data

Shaft reference and grid ref	Location (distance from boundary)	Construction or treatment details
329362-117 329371 362727	On-site	No information on construction and no record of treatment.
329362-118 329234 362447	On-site	No information on construction and no record of treatment.
329362-119 329267 362450	On-site	No information on construction and no record of treatment.
329362-233 329382 362442	On-site	No information on construction and no record of treatment.
329362-321 329330 362431	On-site	No information on construction and no record of treatment.
329361-278 329257 361600	Off-site to south (60 m from Site boundary)	No information on construction and no record of treatment.

3.4.5 Abandoned mine plan - 4215, Hollin Coal workings, Padeswood Hall Colliery.

The Coal Authority completed a search of the abandoned mine plans records, and identified one plan beneath the Site that relates to workings within 40m of the surface. This plan (reference 4215) is provided as **Appendix D** and is shown below as **Inset 1.**







- 3.4.6 An annotation on the plan indicates that it reflects the extent of workings up to 1901.
- 3.4.7 The approximate areas occupied by the underground workings is shown on the Mining Constraints Plan provided as **Figure 5**. A large swathe of the central part of the Site, extending from Padeswood Hall Colliery to approximately 150m from the southern Site boundary is affected by a combination of 'old' workings and pillar and stall workings associated with Padeswood Hall colliery. The abandonment plan indicates that Padeswood Hall colliery worked a coal seam comprising the 'Top Coal',



- 'Black Bass' and 'Bottom Coal' from a shaft that was sunk to a depth of approximately 111m. The depth of the 'old workings' is not indicated.
- 3.4.8 It should be noted that abandonment plans present the extent of workings at specific survey dates and workings beyond these limits may have been carried out at other times.

3.5 Other workings

3.5.1 BGS data indicates that there is a layer of fireclay associated with shallow coal subcropping across the Site and there is the potential that some fireclay was worked underground within the Site boundary.

3.6 Site borehole records

- 3.6.1 Six publicly available borehole/shaft records from within the Site boundary have been obtained from the BGS, as detailed below. Where possible, probable names of coal seams have been indicated (note that depths have been converted to metric from imperial):
 - BGS record reference SJ26SE15, located in the central-northern part of the Site is a record containing the same information as provided in the mine abandonment plan reference 4215 (dated 1901). The record references two adjacent shafts – 'No. 1 Upcast' and 'No 2. Upcast', which were associated with Padeswood Hall Colliery. The recorded geological sequence, which may apply to either shaft, is as follows:
 - Sand and gravel from surface to 18.28m bgl;
 - Sandstone bedrock from 18.28m to 104.24m bgl;
 - 'Slag' becoming darker when nearing coal from 104.24m to 109.72m bgL;
 - 'Top Coal' from 109.88m to 110.18m bgl, recorded as Hollin Coal (but corrected in annotation by BGS to the Premier Coal);
 - 'Black Bass' coal from 110.18m to 110.94m bgl, recorded as Hollin Coal (but corrected in annotation by BGS to the Premier Coal); and
 - 'Bottom Coal' from 110.94 to 111.70m bgl, recorded as Hollin Coal (but corrected in annotation by BGS to the Premier Coal).
- 3.6.2 The record indicates that strata dip to the east at an angle of around 1 in 3 (approximately 18 degrees), although it also notes that the angle of dip varies considerably.
 - SJ26SE586 Record of Padeswood Hall Colliery 'Shaft no. 1 Upcast'. No information is provided;
 - SJ26SE587 record of an unnamed shaft at Padeswood Hall Colliery and recording coal at 45.72m bgl;
 - SJ26SE588 record of an unnamed shaft at Padeswood Hall Colliery. No information is provided;
 - SJ26SE589 record of an unnamed shaft. Annotation indicates "very old pit, reputed sunk on fault" (i.e. the shaft was progressed on the location of a geological fault);



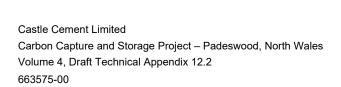
- SJ26SE1088 record of an unnamed shaft sunk to 25.60m bgl. No other information is provided; and
- SJ26SE1115 Welsh National Water Development Authority record, indicating superficial deposits to 18.3m bgl and coal measures bedrock to a drilled depth of 110m bgl. No details of coal seams are included. Groundwater was not encountered.
- 3.6.3 The BGS Onshore GeoIndex (2022) shows the majority of the Site area to be within a zone classified as having shallow coal, although the Coal Authority Coal Mining Report indicates that the Site does not lie in an area of probable unrecorded shallow coal workings.

3.7 Previous ground investigations

- 3.7.1 The following previous ground investigation reports were available for review:
 - Factual report on ground investigation in the areas of raised made ground and railway track, Golder Associates, June 2017;
 - Updated site characterisation and baseline report, WSP Golder, May 2022;
 - Ground investigation report, Hanson Cement, Padeswood, Tier Consult, October 2022; and
 - Geotechnical site investigation, Padeswood works Part B, Earth Environmental & Geotechnical, July 2023.
- 3.7.2 The 2017 Golder Associates investigation was conducted using mechanical excavator and focussed on characterising shallow made ground materials. As such, the investigation does not provide useful information with respect to coal mining issues beneath the Site.
- 3.7.3 Similarly, the 2022 WSP Golder assessment also focussed on shallow ground conditions within the operational area and comprised the drilling of nine window sampler boreholes to a maximum depth of 6.20m bgl. The assessment found exceedances of controlled water risk assessment criteria for a variety of constituents of concern, including metal compounds, ammoniacal nitrogen and hydrocarbons, primarily attributed to leaching from on-site landfills.
- 3.7.4 The Tier Consult investigation focussed on a localised area in the south eastern part of the existing cement works site and comprised four window sampler boreholes (maximum depth 4.35m bgl) three trial pits (maximum depth 2.95m bgl) and two cable percussion boreholes (maximum depth 9m bgl). Possible Gwespyr sandstone bedrock was reported in one of the cable percussion boreholes at 8.70m bgl, although it is uncertain if this was true bedrock or a boulder within the overlying Glacial Till. Coal or evidence of coal workings were not reported. Three rounds of ground gas monitoring were undertaken in installed monitoring wells. A maximum methane



- concentration of 4.4 %v/v was recorded and the report concluded a very low risk of ground gas.
- 3.7.5 Earth Environmental and Geotechnical completed a ground investigation in the area of the proposed PCCCC plant (i.e., the south western corner of the Site) area in 2023, report reference A5352/PART B/V1, dated July 2023.
- 3.7.6 The Site investigation comprised the drilling of 13 30m deep rotary boreholes in and around the proposed PCCCC area as well as five shallow window sampler boreholes along a proposed access road from the north. Data obtained were used to complete geotechnical and contamination assessments for the Proposed Development and the report concluded low risk from contamination to future site users. Ground gas monitoring was not undertaken as part of the investigation.
- 3.7.7 The exploratory holes encountered a complex sequence of alternating sand and clay underlain by a sandstone and mudstone rockhead. Rockhead, comprising sandstone (interpreted to be the Gwespyr Sandstone) and siltstone (interpreted as the Lower Coal Measures Formation) was encountered at depths ranging from 17.80m to 32.50m below ground level. Intact coal was encountered at one exploratory location only RC10, situated in the south-central part of the PCCCC area, at a depth of 17.80m to 18.40m bgl.





4 ASSESSMENT OF SITE-SPECIFIC COAL MINING RISKS

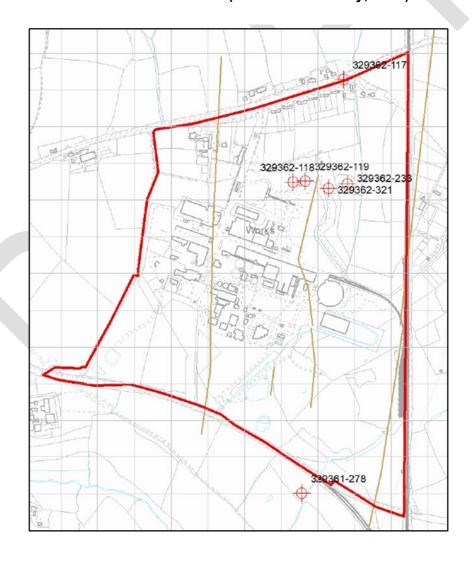
4.1 Opencast workings

4.1.1 The Site does not lie within an area of past or current surface (open cast) coal mining as identified by the Coal Authority.

4.2 Mine shafts and adits

4.2.1 As detailed in **Table 3.3**, the CMRA indicates that five mine shafts are present within the Site, with one further shaft located just outside the Site boundary to the south. The approximate shaft locations are indicated on **Inset 2**, below.

Inset 2 Mine Shaft locations (The Coal Authority, 2022)





- 4.2.2 The 1902 abandonment plan appears to indicate the recorded extent of workings from shafts referenced 329362-118 and 329362-119 (i.e., the Padeswood Hall Colliery shafts 1 and 2). It is unclear whether old workings shown on the abandonment plan were accessed from these shafts and/or from one or both of the nearby shafts to the east (referenced 329362-233 and 329362-321).
- 4.2.3 The CMRA does not include any information on the shafts, hence there is no evidence to state that that these shafts have been capped or treated. Similarly, shaft diameters are not provided.
- 4.2.4 A shaft collapse will generally form a cone of depression around the top of the shaft, with the size of the cone dependent on the shaft details including any backfilling or stowing and its dimensions and depth, thickness of made ground and superficial material present above the bedrock.
- 4.2.5 Assuming a cone of settlement will extend from the point where the shaft enters rockhead up to the surface at a 45-degree angle (a conservative, worst-case scenario), this would result in a 10m radius (or 20m diameter) zone of ground instability from the shaft perimeter where the bedrock was at 10m below the ground surface.
- 4.2.6 Available BGS borehole logs, record a variable depth of made ground and superficial deposits. Close to mine shafts 329362-119 and 118, the depth to bedrock is recorded as being approximately 18m bgl, which is consistent with rockhead depths reported by Earth Environmental during their 2023 investigation. However, shaft diameters are not known (as the information is not provided on available information), hence it is not possible to determine with certainty the cone of stability associated with these shafts. Applying the above principle to shafts 329361-118 and 119 and assuming a likely worst-case shaft diameter of 4m, a theoretical worst-case zone of ground instability of approximately 72m radius (or 144m diameter) may be assumed from the shaft's perimeter.
- 4.2.7 The depth to rockhead is not provided on the BGS record associated with shaft 329-321 and so a theoretical zone of ground instability has not been conjectured.
- 4.2.8 The recorded positions of the shafts are not close to any of the site areas that form the work areas for the Proposed Development, and therefore they are not considered to pose a risk to the Proposed Development, and do not require any further assessment. The closest area of the Proposed Development to the mine shafts is the laydown area (shaded purple on Figure 5), which is 55m distance from the nearest shaft.
- 4.2.9 BGS record SJ26SE588, which relates to shaft reference 329361-233, indicates that a surface depression was noted at this location in 1985. Whilst this shaft is not close to any of the areas where works are planned as part of the Proposed Development,



the fact that a depression has been noted illustrates the potential risk of ground instability.

4.3 Worked coal seams

- 4.3.1 As shown on the geological maps, several coal seams are shown to subcrop beneath the Site. The Coal Authority abandonment plan shows that the Premier coal seam, which is recorded at a depth of 109.88m in shafts 329361-118 and 119, has been worked beneath the central part of the Site. Where there are deeper worked seams, these are a lesser concern due to the presence of a significant thickness of intact rock above the workings, which would prevent migration of any collapses within the worked seams upwards to the surface. There is, however, considerable uncertainty concerning ground conditions beneath the Site owing to the presence several geological faults and a scarcity of detailed information for the shafts located on site.
- 4.3.2 The Coal Authority's interactive viewer indicates the extent of past shallow coal mining beneath the Site. This is limited to the centre of the Site, beneath the existing works, as shown on **Inset 3**, below.



Inset 3 Location of shallow coal workings beneath the Site (The Coal Authority, 2023)



4.3.3 The area shown in blue on **Inset 3** corresponds reasonably well with the extent of 'old workings' shown on the Coal Authority abandonment plan (shown as **Inset 1**, and also included at **Appendix D**). It should be noted that "shallow" workings are defined as anything within 30m of the surface (Coal Authority, 2017). The depth of



the 'old workings' are not known as this information is not supplied on the abandonment plan or shaft/BGS borehole records.

- 4.3.4 The Coal Authority consultants coal mining report (included at **Appendix C**) includes five references to past underground coal mining of the Hollin coal seam (which is not shown beneath the Site on available geological maps) from an unnamed colliery at depths ranging from 14m to 40m bgl. All are indicated as being situated beneath existing buildings. Again, this would appear to correlate with the 'old workings' shown on the mine abandonment plan which shows two unnamed shafts (references 329362-233 and 321) to the north east of the indicated area of shallow coal mining.
- 4.3.5 The information available shows that coal seams are expected to be present beneath much of the Site, which if worked underground, would present a potential risk to ground surface stability if the workings were to collapse and ensuing voids migrate towards the ground surface.
- 4.3.6 The historical workings beneath the central area of the site are likely to be workings accessed from the Padeswood Hall Colliery (shafts 329361-118 and 119) and as such are likely to be at sufficient depth so as not to propose a significant risk of collapse, even considering a shallowing towards the south east owing to the conjectured dip angle of the seams.

4.4 Coal mining gases

- 4.4.1 Beneath parts of the Site, coal seams are present, which are recorded to have been worked underground. These are at least partially interconnected through a series of mine entries. The Coal Measures deposits are a known source of hazardous ground gases, including carbon dioxide and methane.
- 4.4.2 The underlying Coal Measures are considered to be a potential source of hazardous ground gas. Shallow coal workings and mine entries can provide preferential migration pathways. The area of the Site potentially affected by shallow workings is within the centre of the cement works, and is not in proximity to any of the work areas for the Proposed Development. The area of the control building (shaded grey on Figure 5) is the closest feature, and is a distance of 100m from the area of recorded shallow workings. A gas assessment may be necessary if permanent buildings were going to be constructed in this area, but given the Proposed Development layout, no further assessment of ground gases is considered necessary.



5 MITIGATION REQUIREMENTS

- 5.1.1 The CMRA completed in the preceding sections of this report has concluded that the areas of the Site where the Proposed Development facilities are to be located are not at risk from hazards relating to coal mining legacy issues, therefore there is no requirement to present a mitigation element.
- 5.1.2 However, given that parts of the Site are within a Development High Risk Area, it is recommended that this CMRA document should be submitted for Coal Authority review, to ensure that they are able to consider the recommendations, and discuss the recommended approach as appropriate. It should be noted that the Development High Risk Areas are restricted to the sections of the Site where mine shafts and shallow workings are located. As determined above, these areas are not encroached on by the facilities that will be constructed as part of the Proposed Development.





6 SUMMARY AND CONCLUSIONS

- 6.1.1 This document provides an assessment of the coal mining legacy issues for the Site.
- 6.1.2 The results of the assessment indicate that there are recorded coal mine shafts on the Site. However, the location of these in comparison to the areas selected for specific features of the Proposed Development means that there is no requirement to recommend further assessment or investigation works relating to the shafts.
- 6.1.3 Coal Authority data indicates coal seams have been worked beneath the Site from 14m to 110m depth. These workings are recorded as being largely situated beneath existing structures, mainly in the central areas of the Site. The identified areas of shallow workings do not correlate to any of the areas to be affected by the Proposed Development, and therefore there are no recommendations to undertake further assessment or investigation of shallow coal workings at the Site.
- 6.1.4 It is recommended that this document should be submitted for Coal Authority, as statutory consultee, review to demonstrate that the coal mining legacy of the Site has been adequately assessed in order to allow the Proposed Development to proceed safely.



7 REFERENCES

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APPENDIX A - RSK SERVICE CONSTRAINTS

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- 8. The intrusive environmental site investigation aspects of the Services are a limited sampling of the Site at pre-determined locations based on the known historic / operational configuration of the Site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on-site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope between the Applicant and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species are not present.
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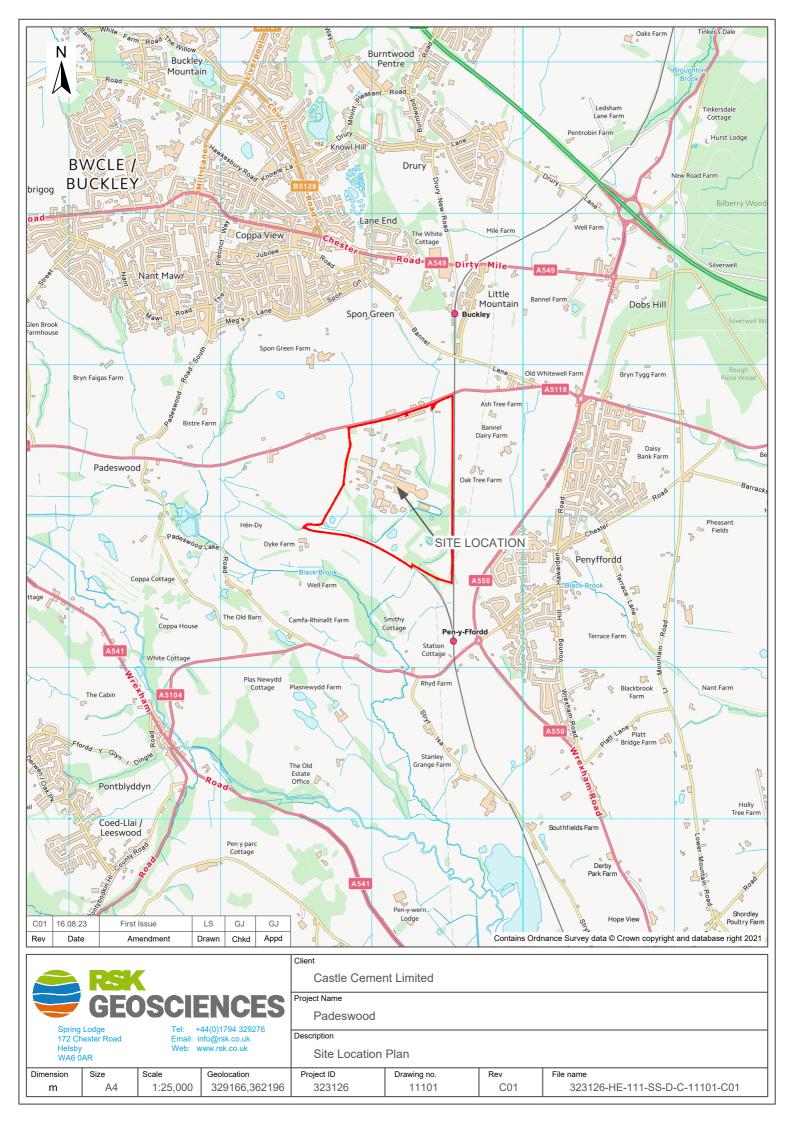
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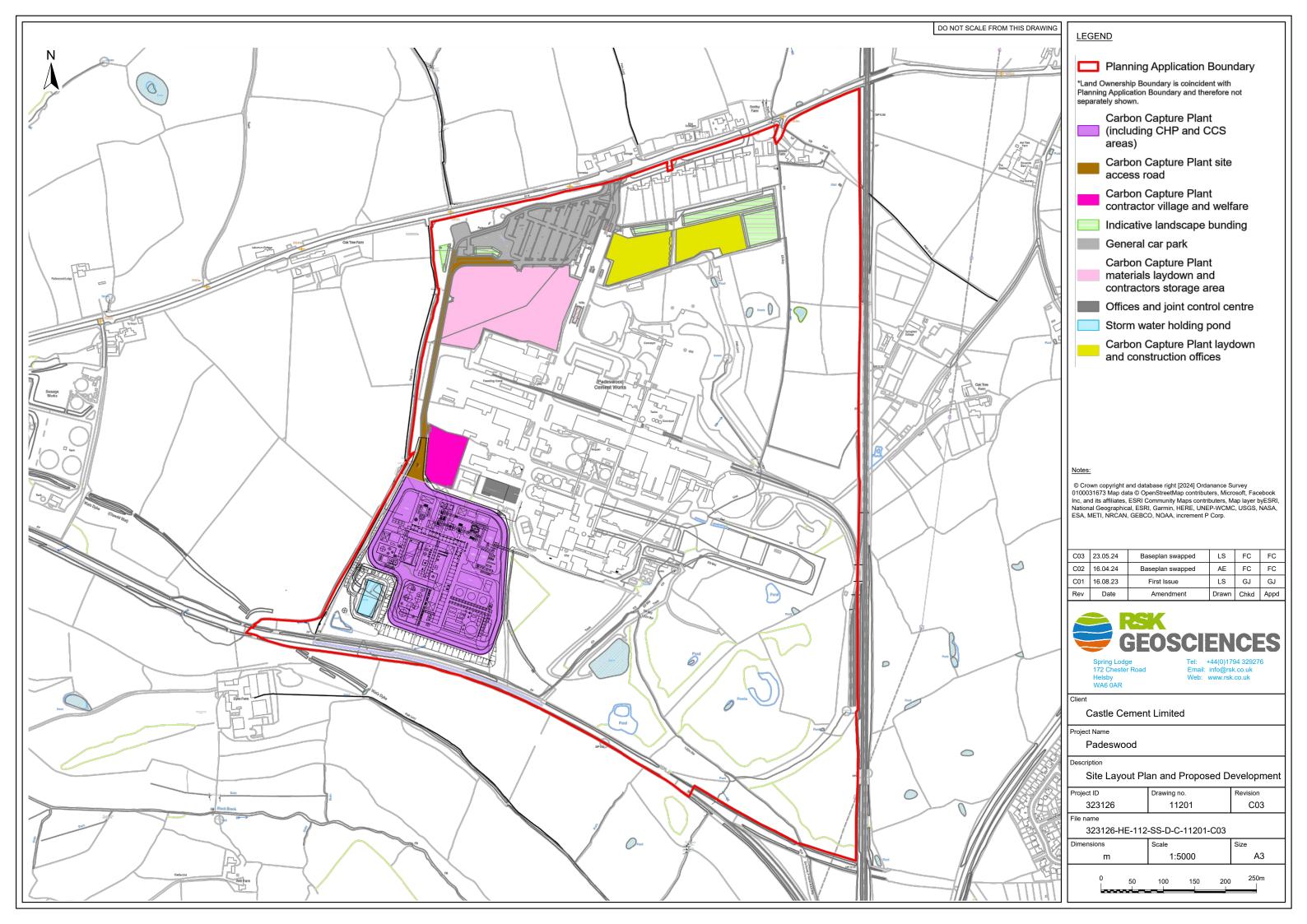




FIGURES



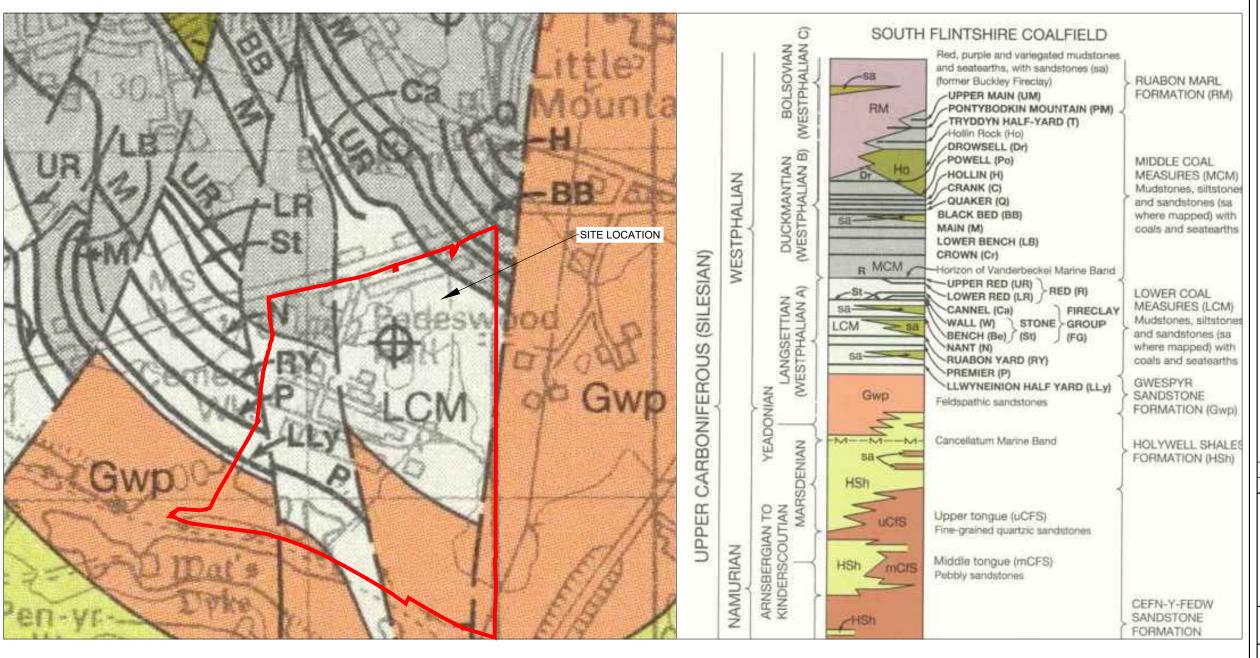




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LEGEND

Approximate site boundary



Notes:

mages source:

'Map Sheet 108 solid & drift edition, 1:50,000 scale, dated 1999'

C01	16.08.23	First Issue	LS	GJ	GJ
Rev	Date	Amendment	Drawn	Chkd	Appd



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Client

Castle Cement Limited

Project Name

Padeswood

Descriptio

Geological Map (1:50.000 scale) - 1999

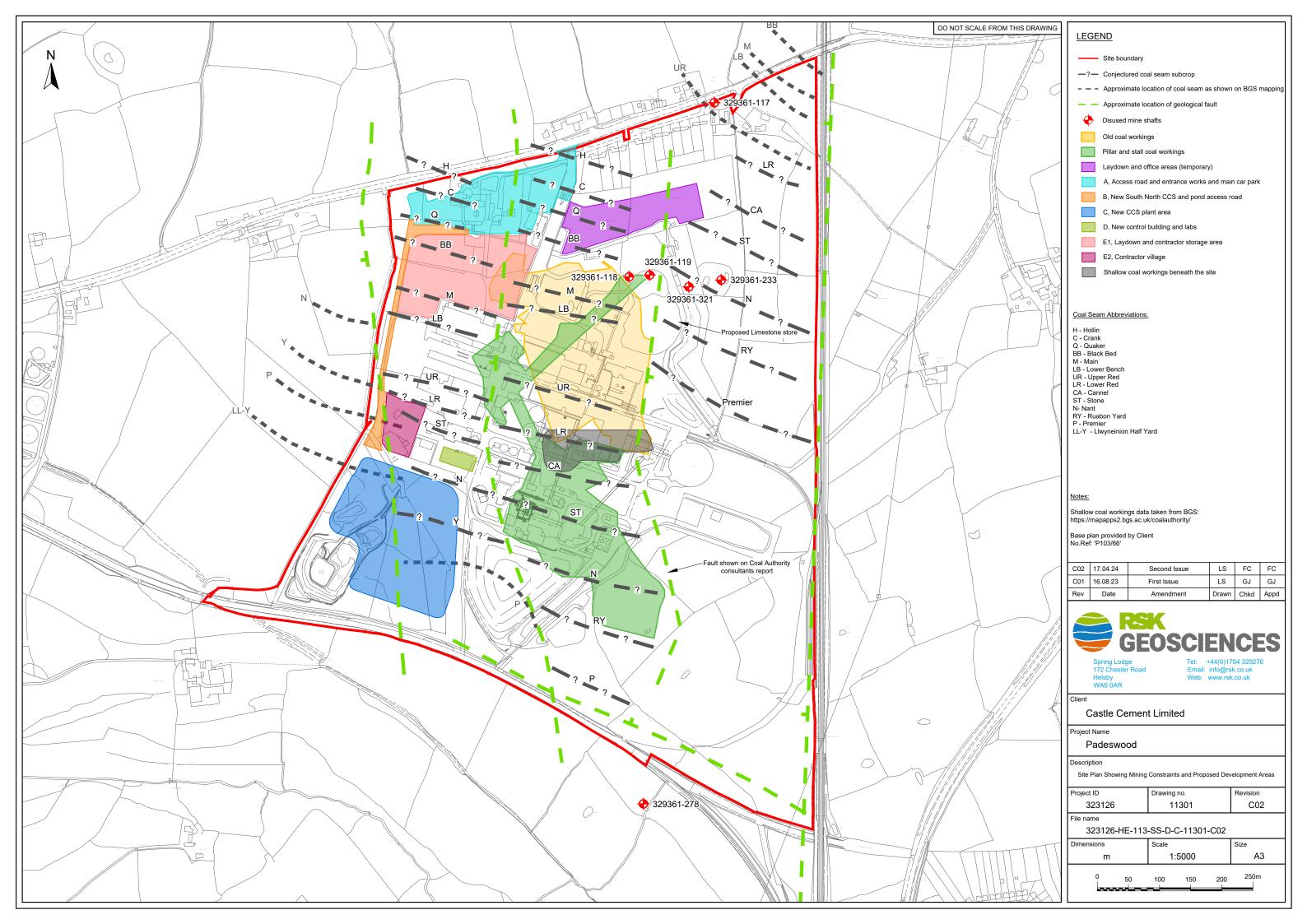
 Project ID
 Drawing no.
 Revision

 323126
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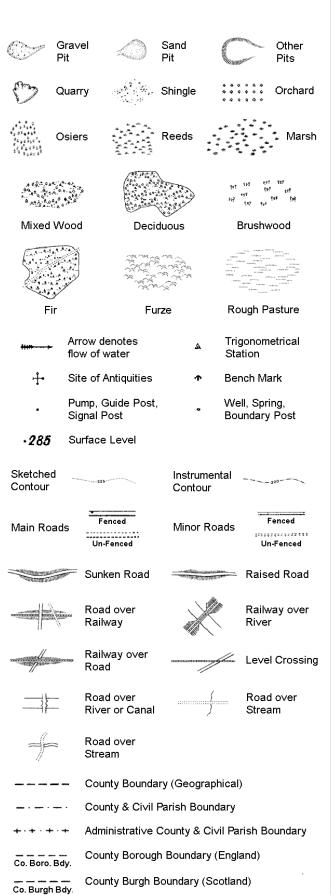


APPENDIX B- HISTORICAL PLANS



Historical Mapping Legends

Ordnance Survey County Series 1:10,560



Rural District Boundary

····· Civil Parish Boundary

R.D. Bdy.

Ordnance Survey Plan 1:10,000

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		Sand Pit	(Disused Pit or Quarry
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		Dunes		Boulders
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		Borough, Burgh of Shown only when no		
		Civil Parish Shown alternately w	hen coincidence	of boundaries occurs
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		Church	PO Sta	Police Station Post Office
		Club House	PC	Public Convenience
		rire Engine Station	PH	Public House
		oot Bridge	SB	Signal Box
		ountain	Spr	Spring
		Guide Post	тсв	Telephone Call Box
		Alla Poet	TCB	Telephone Call Post

Mile Post

TCP

Telephone Call Post

1:10,000 Raster Mapping

(EB)	Gravel Pit		Refuse tip or slag heap
	Rock	3 3	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) District, Unitary,	• • • • • •	Ci∨il, parish or community boundary
	Metropolitan, London Borough boundary		Constituency boundary
۵ ⁰	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
<i>۵</i>	Non-coniferous trees (scattered)	** **	Coniferous trees
*	Coniferous trees (scattered)	Ö	Positioned tree
ф ф ф ф	Orchard	* *	Coppice or Osiers
aTr,	Rough Grassland	www.	Heath
On_	Scrub	7 <u>₩</u> ۲	Marsh, Salt Marsh or Reeds
6	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)	Δ	Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare stac or lighting tower
+	Site of (antiquity)		Glasshouse
	General Building		Important

General Building

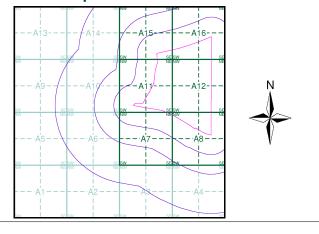
Building

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1871	2
Flintshire	1:10,560	1881	3
Flintshire	1:10,560	1900	4
Flintshire	1:10,560	1914	5
Flintshire	1:10,560	1938	6
Flintshire	1:10,560	1954	7
Ordnance Survey Plan	1:10,000	1964	8
Ordnance Survey Plan	1:10,000	1968	9
Ordnance Survey Plan	1:10,000	1975	10
Ordnance Survey Plan	1:10,000	1991	11
10K Raster Mapping	1:10,000	2000	12
Street View	Variable		13

Historical Map - Slice A



Order Details

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970
Slice: A

Site Area (Ha): 71.96 Search Buffer (m): 1000

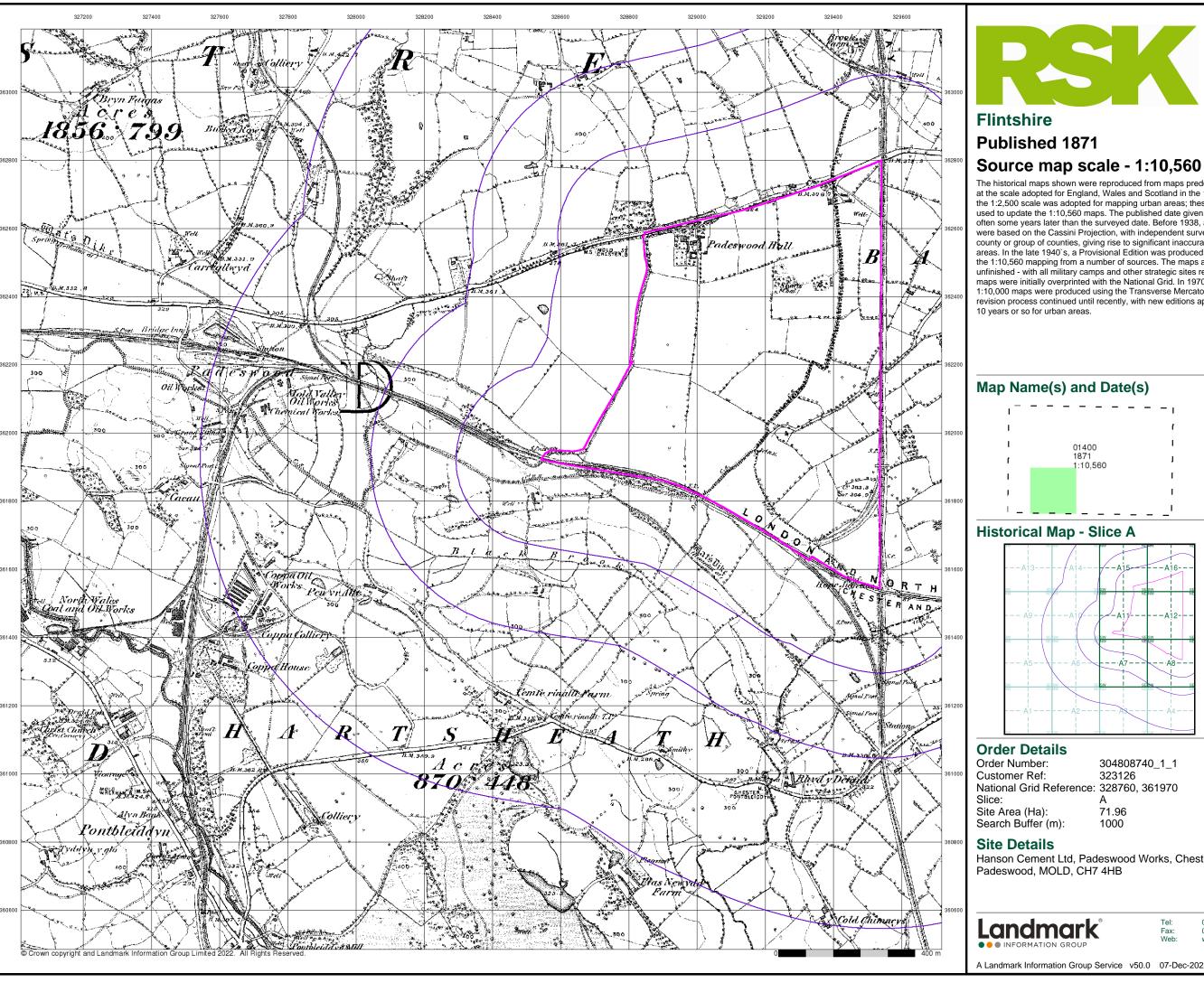
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

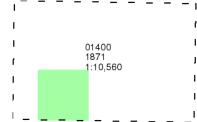


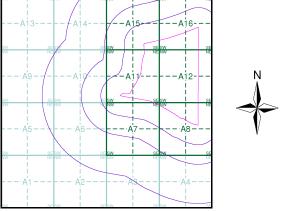
Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirocheck

A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 13



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



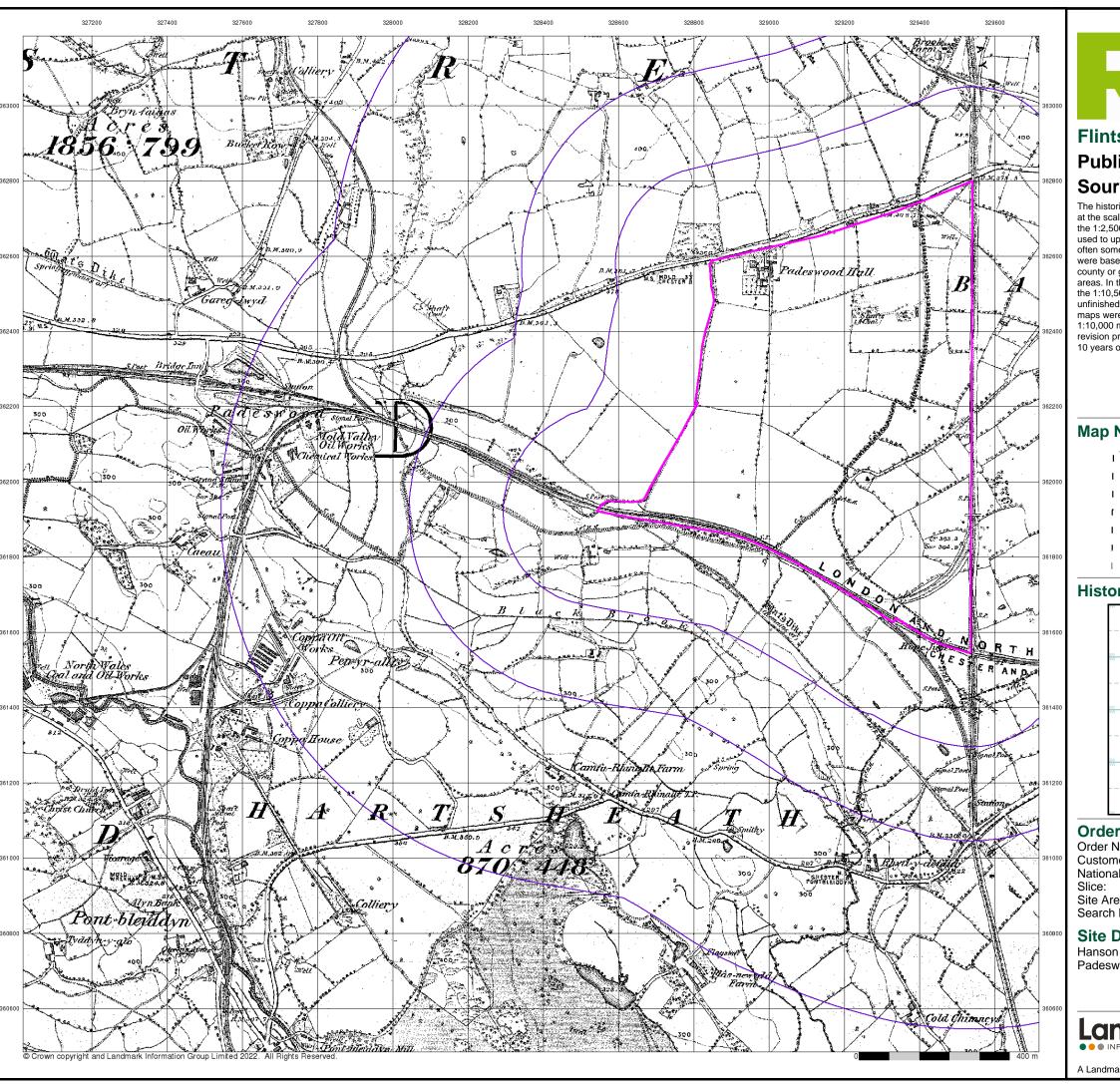


National Grid Reference: 328760, 361970

Hanson Cement Ltd, Padeswood Works, Chester Road,

0844 844 9952 0844 844 9951

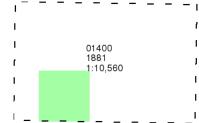
A Landmark Information Group Service v50.0 07-Dec-2022 Page 2 of 13



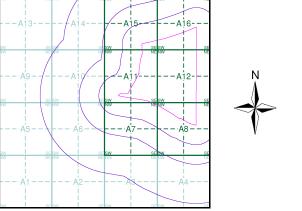
Published 1881 Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): 71.96 Search Buffer (m): 1000

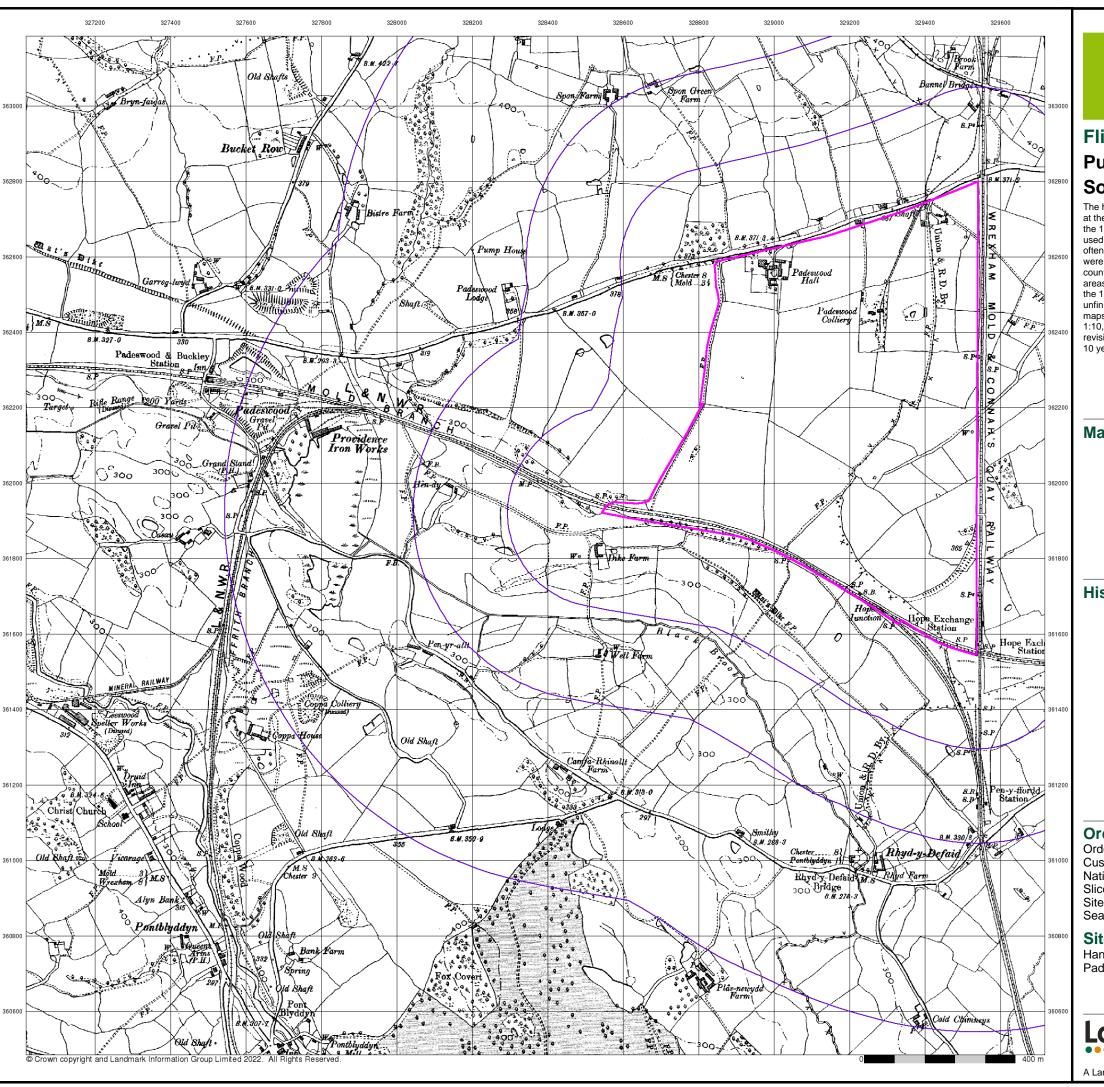
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

0844 844 9952

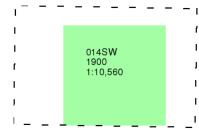
A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 13



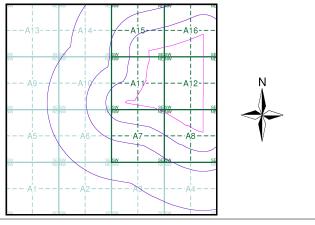
Published 1900 Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 1000

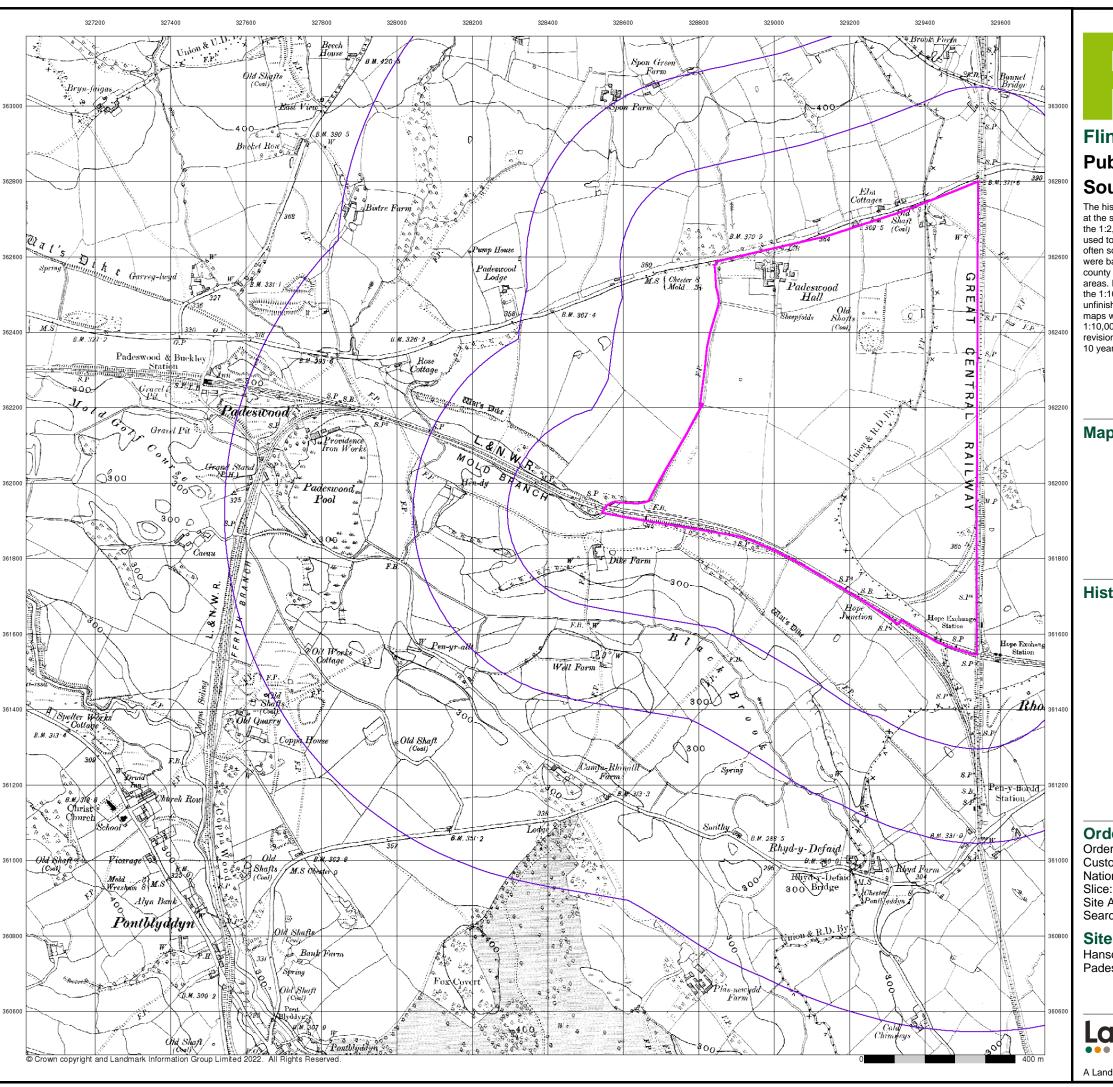
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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A Landmark Information Group Service v50.0 07-Dec-2022 Page 4 of 13



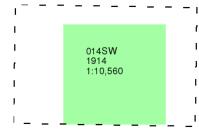


Published 1914

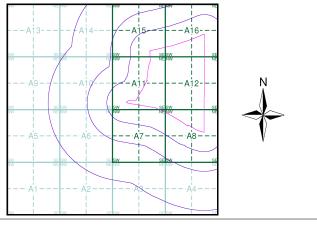
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): 71.96 Search Buffer (m): 1000

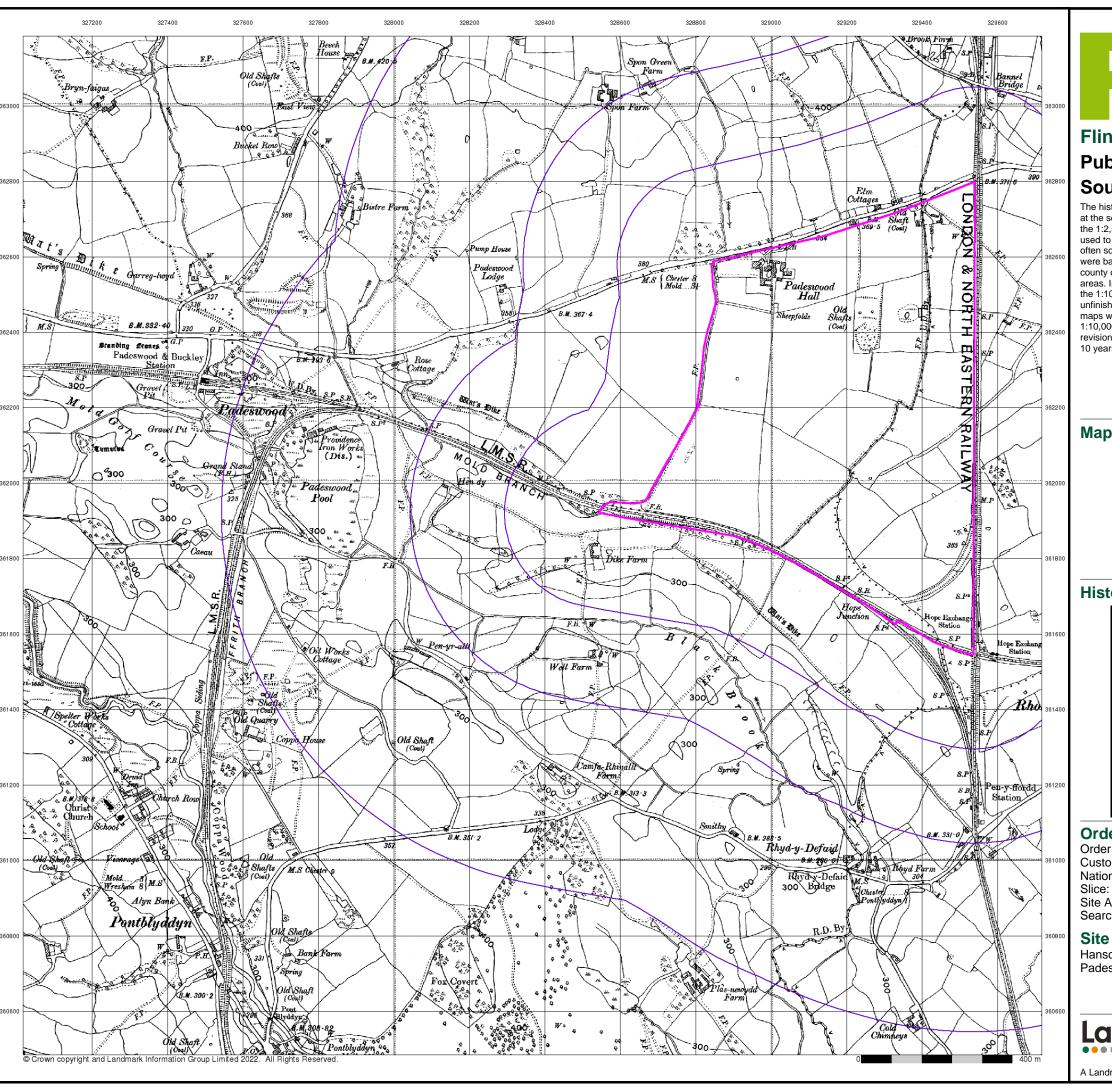
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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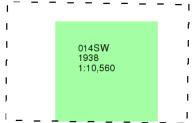
A Landmark Information Group Service v50.0 07-Dec-2022 Page 5 of 13



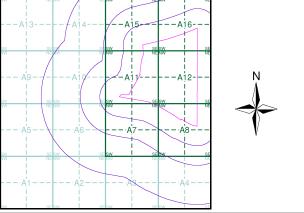
Published 1938 Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): 71.96 Search Buffer (m): 1000

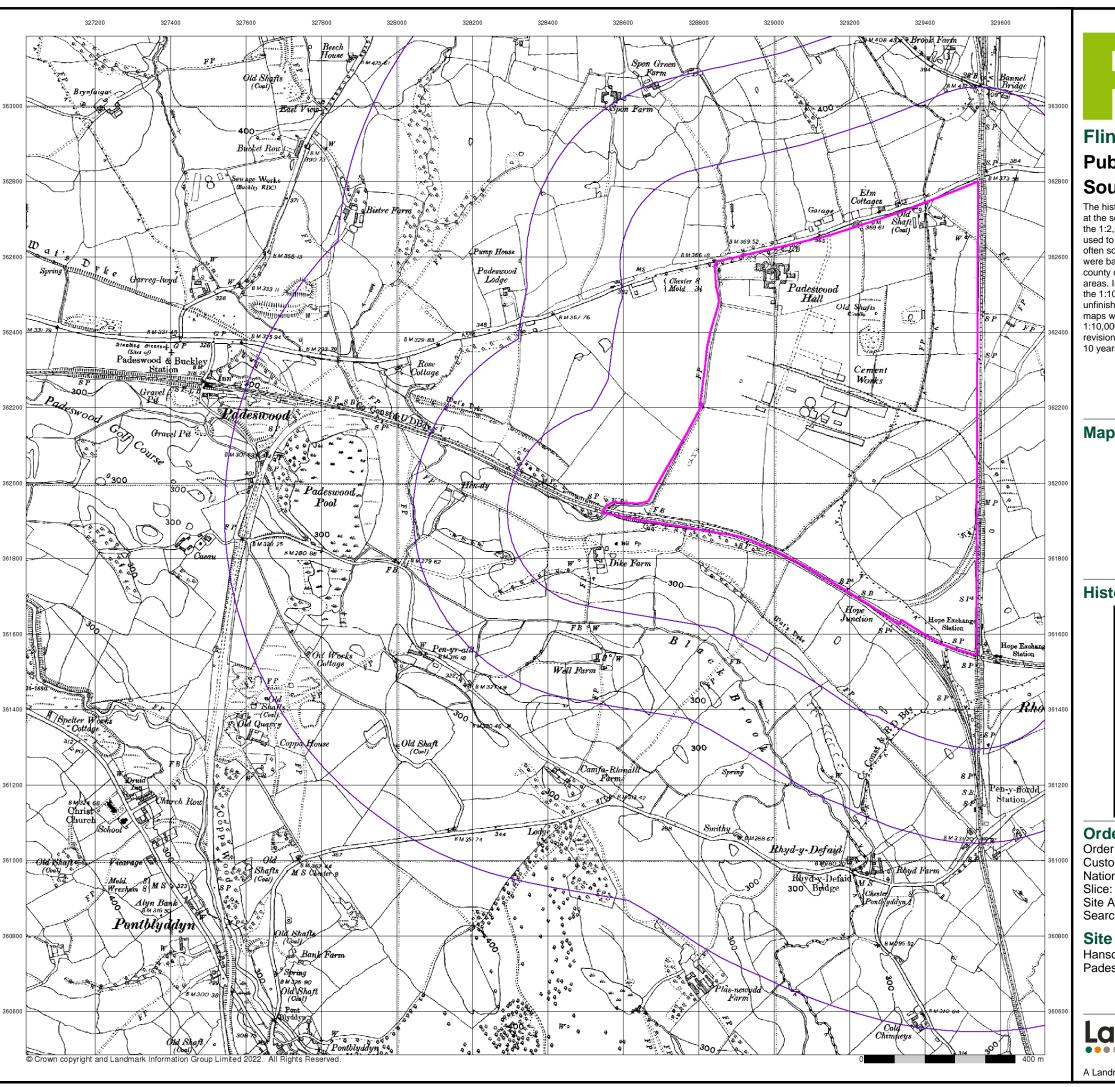
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 6 of 13



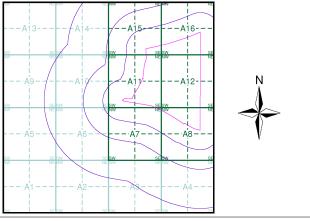
Published 1954 Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): 71.96 Search Buffer (m): 1000

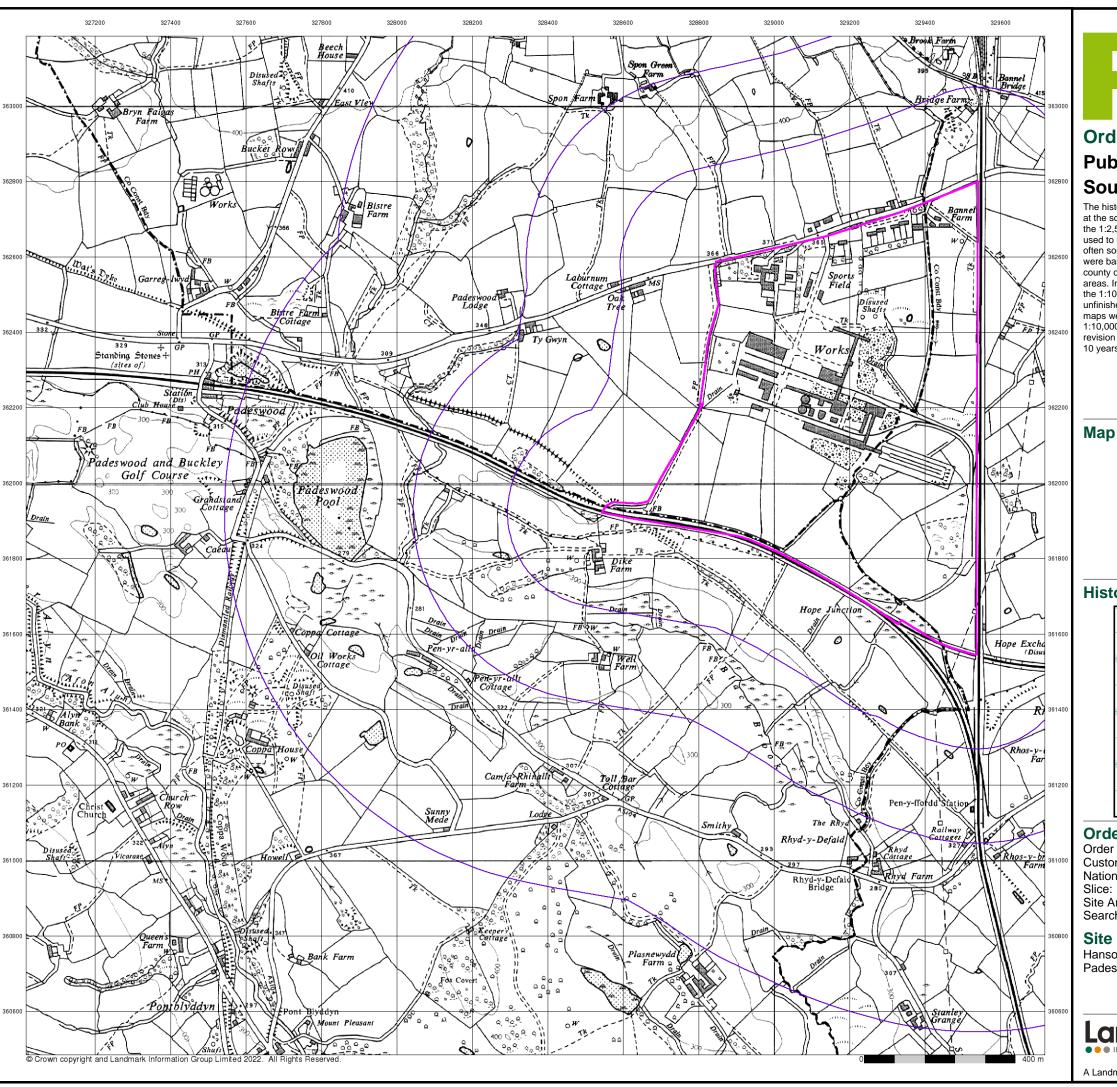
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 7 of 13



Ordnance Survey Plan

Published 1964

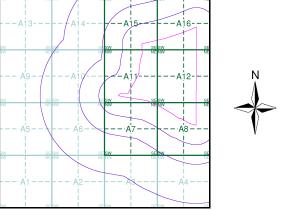
Source map scale - 1:10,000

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: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

National Grid Referen

Site Area (Ha): 71.96 Search Buffer (m): 1000

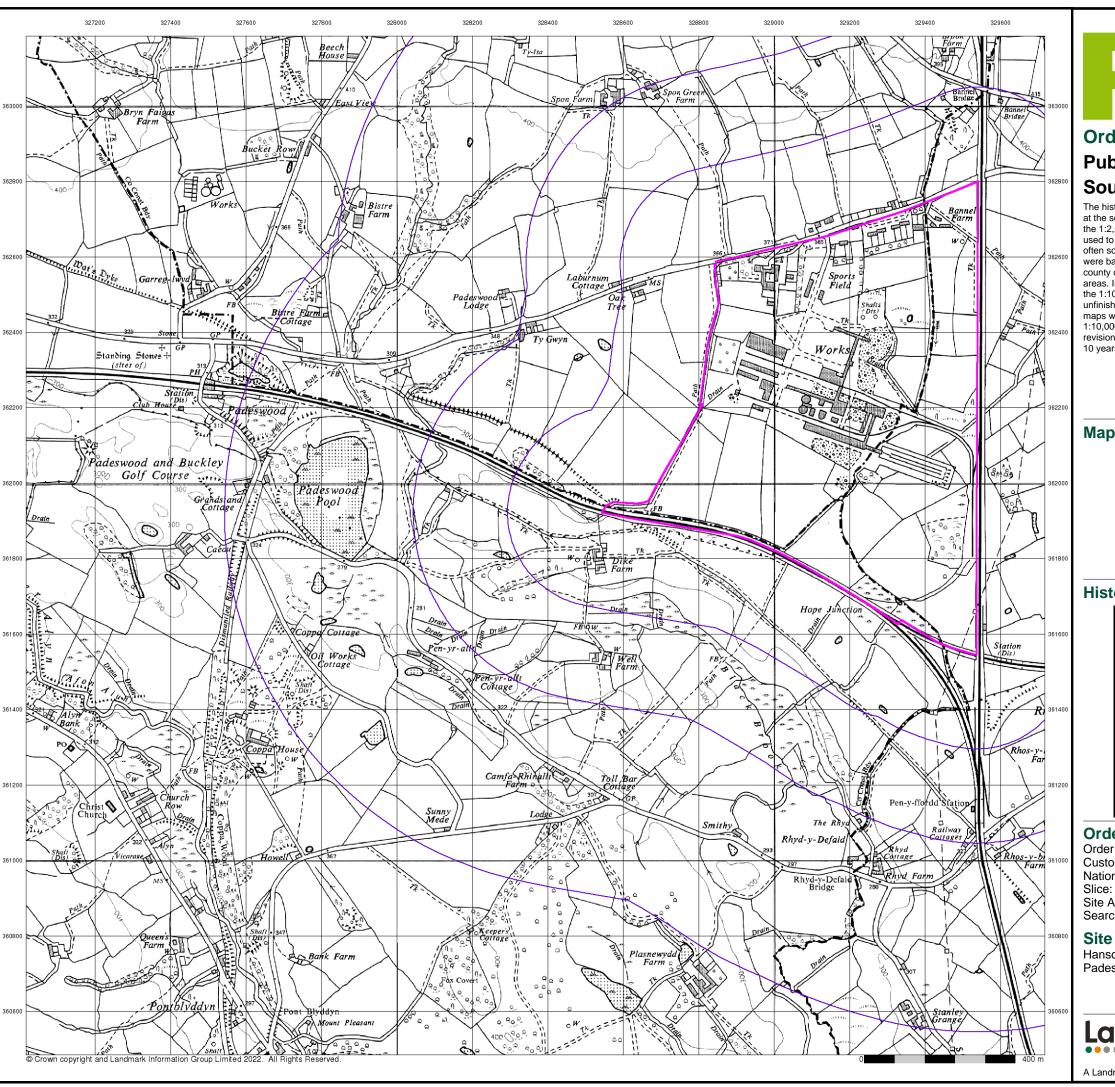
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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

A Landmark Information Group Service v50.0 07-Dec-2022 Page 8 of 13



Ordnance Survey Plan

Published 1968

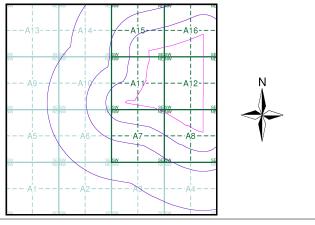
Source map scale - 1:10,000

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: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

lice:

Site Area (Ha): 71.96 Search Buffer (m): 1000

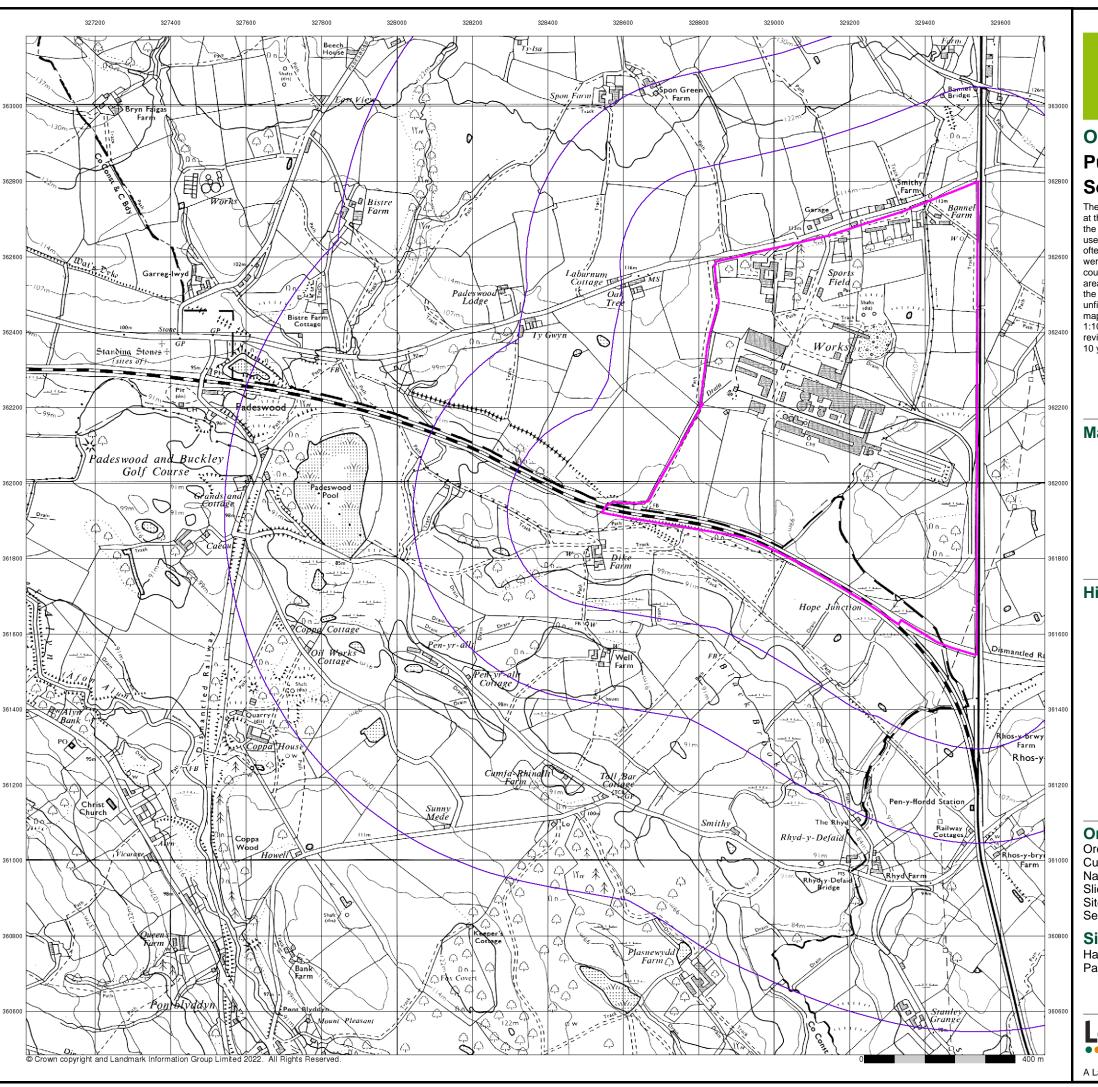
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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

A Landmark Information Group Service v50.0 07-Dec-2022 Page 9 of 13



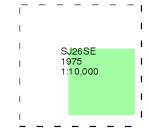


Ordnance Survey Plan Published 1975

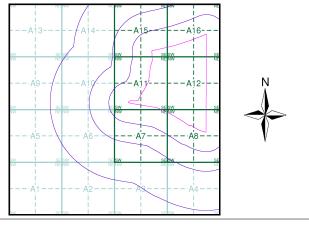
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 1000

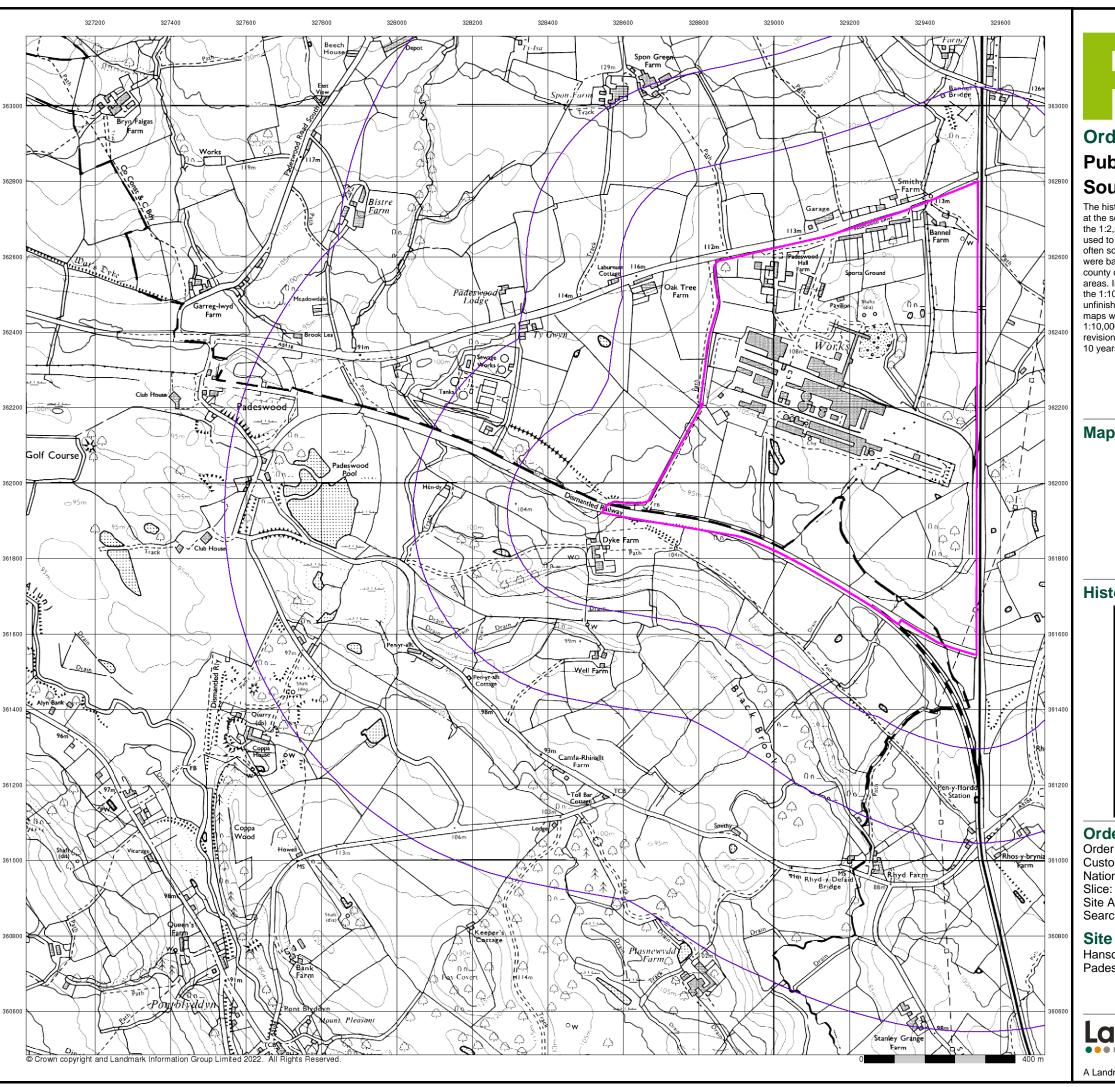
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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

A Landmark Information Group Service v50.0 07-Dec-2022 Page 10 of 13





Ordnance Survey Plan Published 1991

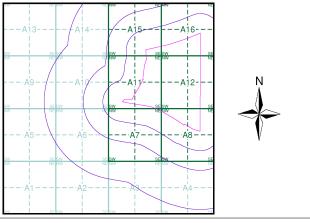
Source map scale - 1:10,000

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: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): 71.96 Search Buffer (m): 1000

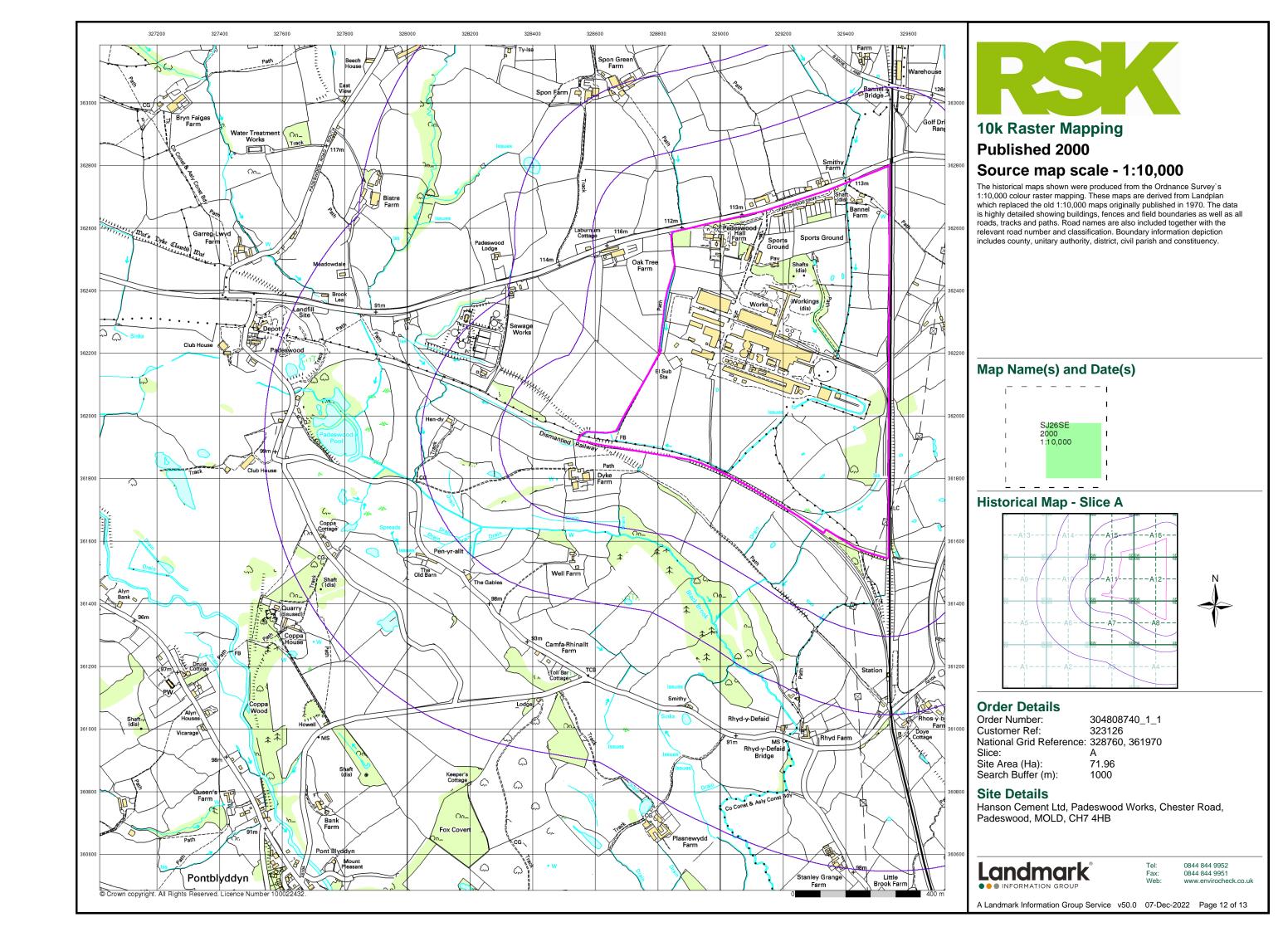
Site Details

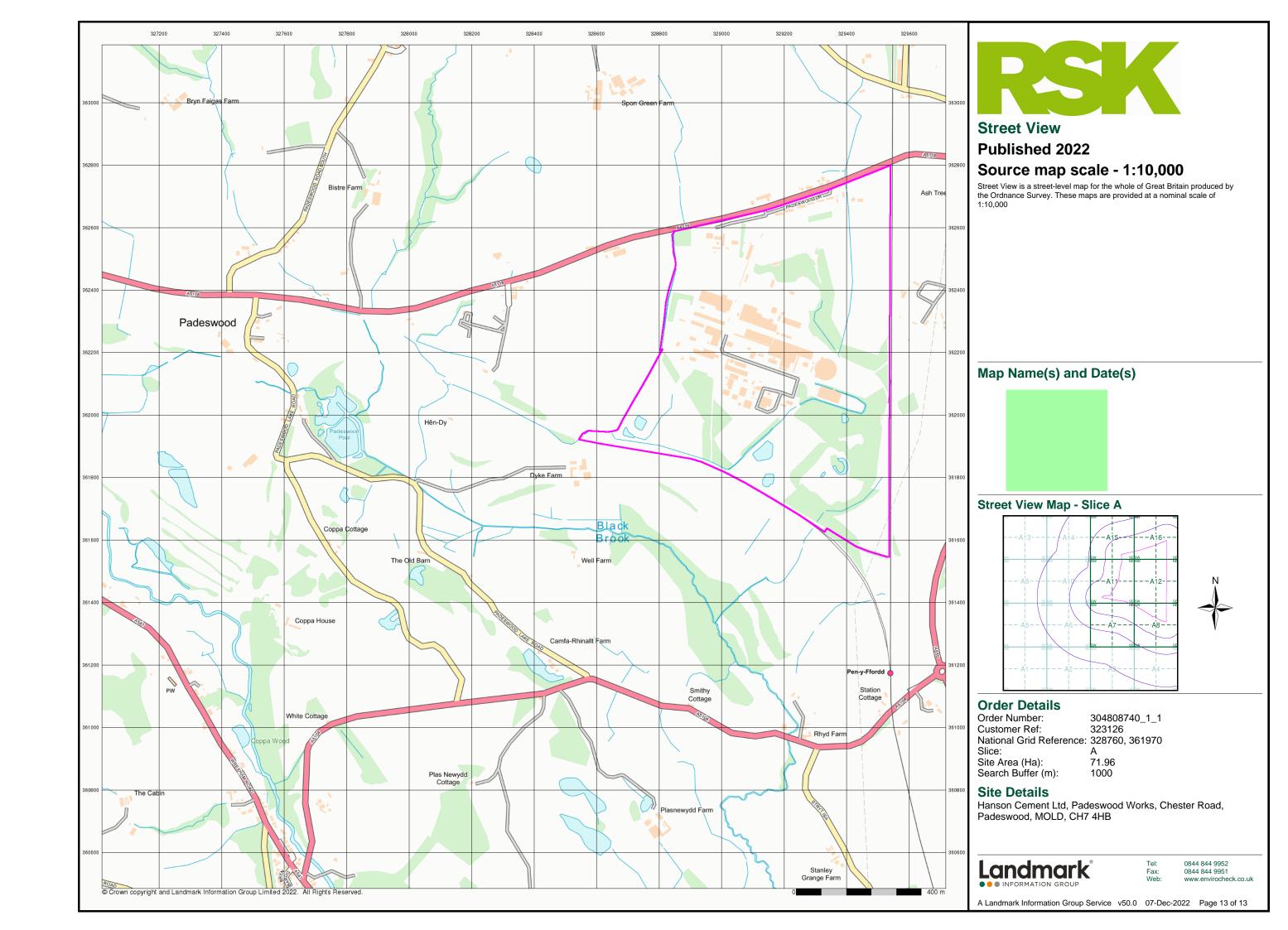
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



0844 844 9952

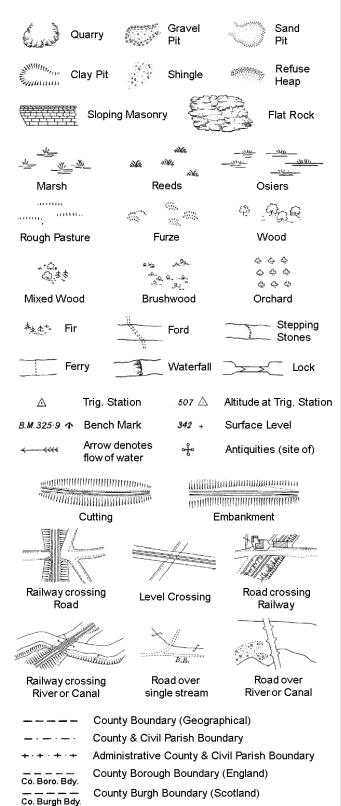
A Landmark Information Group Service v50.0 07-Dec-2022 Page 11 of 13





Historical Mapping Legends

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



B.R.

EP

F.B.

M.S

Bridle Road

Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

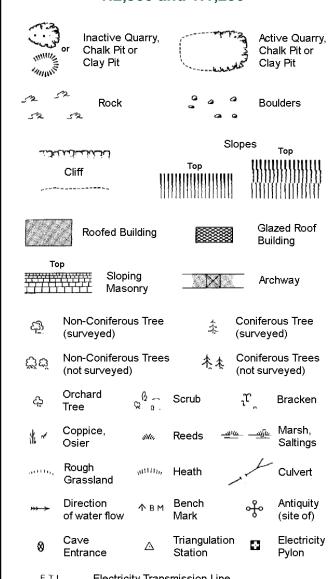
Trough Well

S.P

Sl.

Tr:

Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



Electricity Transmission Line

	,
	County Boundary (Geographical)
	County & Civil Parish Boundary
	Civil Parish Boundary
· -	Admin. County or County Bor. Boundary
L B Bdy	London Borough Boundary
24	Symbol marking point where boundary mereing changes

вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

1:1,250

			Slopes			
لكنابياني			_		Top	
ļ	Cliff	1111	Top 	13313	\$\$\$\$\$\$\$\$\$\$\$\$	
				M		
52	Rock		23	Rock (s	cattered)	
\Box_{a}	Boulders		<i>△</i>	Boulder	rs (scattered)	
\triangle	Positioned	Boulder		Scree		
දමු	Non-Conif (surveyed	erous Tree)	*	Conifer (surve)	rous Tree yed)	
స్తోల్	Non-Conif (not surve	erous Trees yed)	* **		rous Trees rveyed)	
දා	Orchard Tree	Q a.	Scrub	T,	Bracken	
* ~	Coppice, Osier	sHu,	Reeds -=	10c — 20](c	Marsh, Saltings	
arm,	Rough Grassland	1411111 ₁₁	Heath	1	Culvert	
>>>	Direction of water flo	Δ ow	Triangulation Station	, &	Antiquity (site of)	
ETL	_ Electric	ity Transmis	ssion Line	\boxtimes	Electricity Pylon	
\ € \	231.60m E	Bench Mark			ngs with ng Seed	
	Roofe	ed Building		259	Blazed Roof Building	
		Civil parieb	/community b	oundars	,	
		District bo	-	ouriuar y	,	
			-			
_ •		County box	undary			
٥		Boundary	ost/stone			
٥	,	-	mereing symb pear in oppose	,		
Bks	Barracks		Р	Pillar, P	ole or Post	
Bty	Battery		PO	Post Of	fice	
Cemy	Cemetery		PC	Public (Convenience	
Chy	Chimney		Pp	Pump		
Cis	Cistern		Ppg Sta	Pumpin	g Station	
Dismtd R	dy Disman	tled Railway	PW	Place o	fWorship	
El Gen S	ta Electric Station	ity Generating	Sewage F		Sewage Pumping Station	
EIP		Pole, Pillar	SB, S Br		Box or Bridge	
	ta Electricity		SP, SL	_	Post or Light	
FB	Filter Bed		Spr	Spring	ostor Light	
	to: Dea		Opi	Shiniñ		

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

GVC

Gas Valve Compound

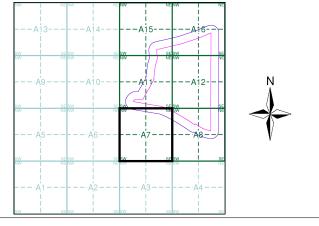
Mile Post or Mile Stone



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1872	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1977 - 1989	6
Additional SIMs	1:2,500	1981	7
Additional SIMs	1:2,500	1988	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10
	•	•	

Historical Map - Segment A7



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970 Slice: Site Area (Ha):

71.96 Search Buffer (m): 100

Site Details

Tank or Track

Works (building or area)

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

Tr

Wd Pp

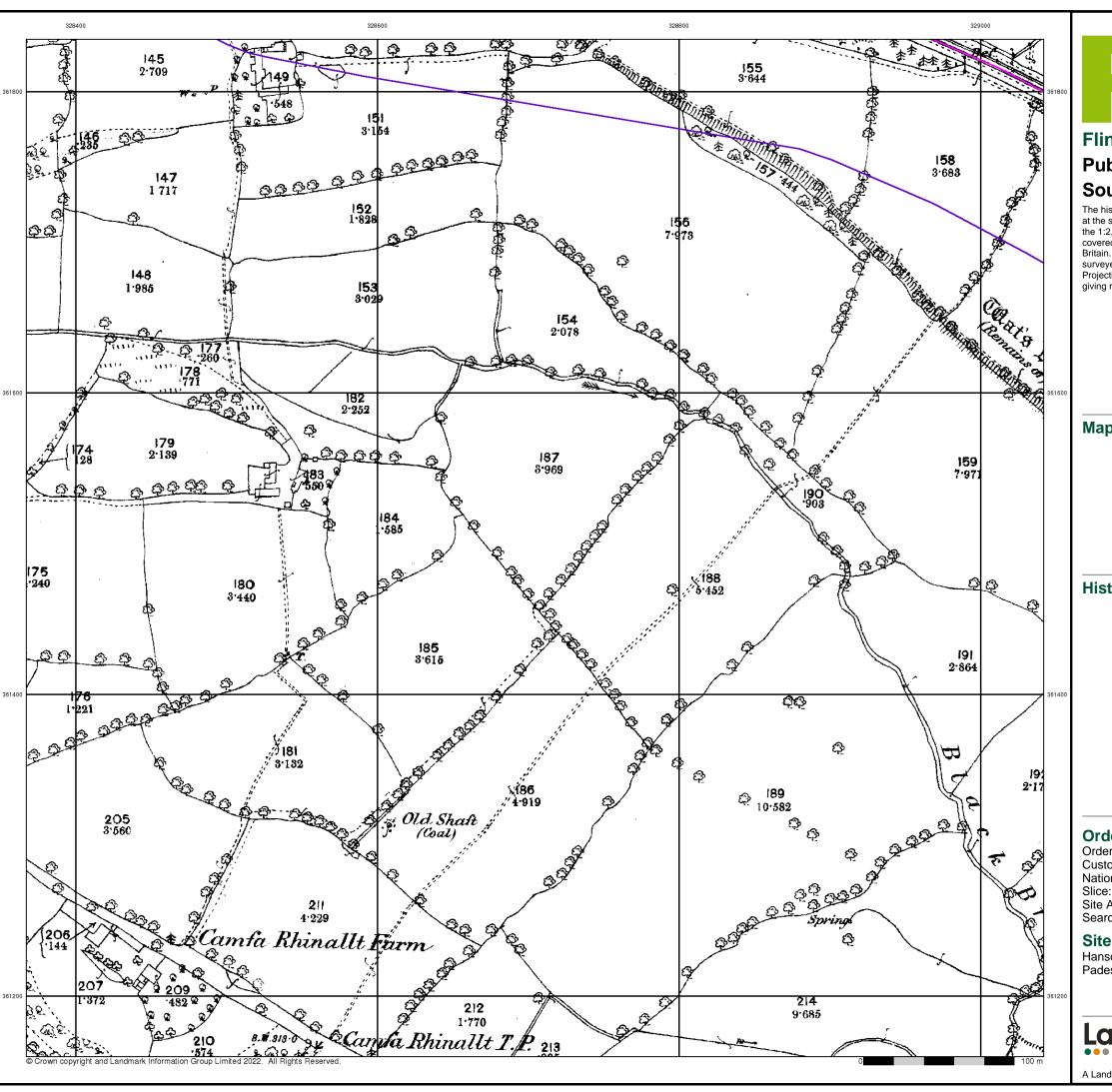
Wks

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



0844 844 9952

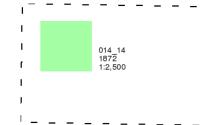
A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 10



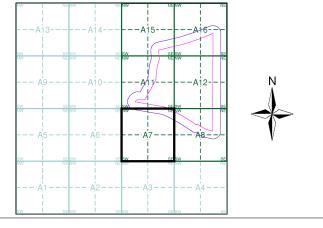
Published 1872 Source map scale - 1:2,500

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



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

71.96 Site Area (Ha): Search Buffer (m): 100

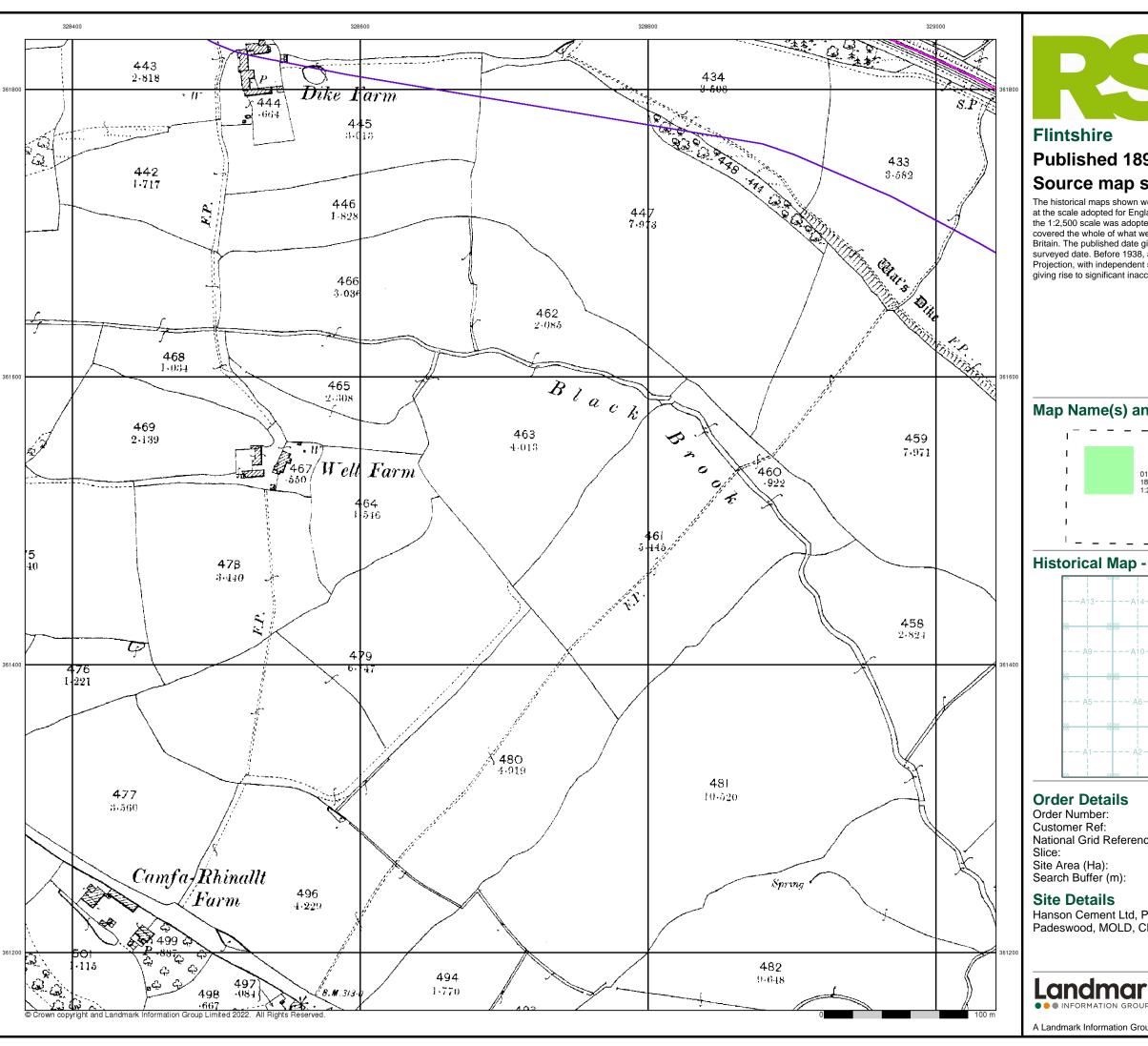
Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

0844 844 9952 0844 844 9951

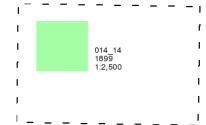
A Landmark Information Group Service v50.0 07-Dec-2022 Page 2 of 10



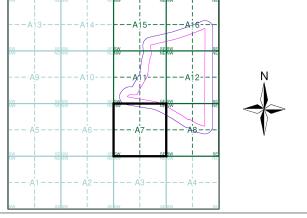
Published 1899 Source map scale - 1:2,500

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 A7



304808740_1_1 323126 National Grid Reference: 328760, 361970

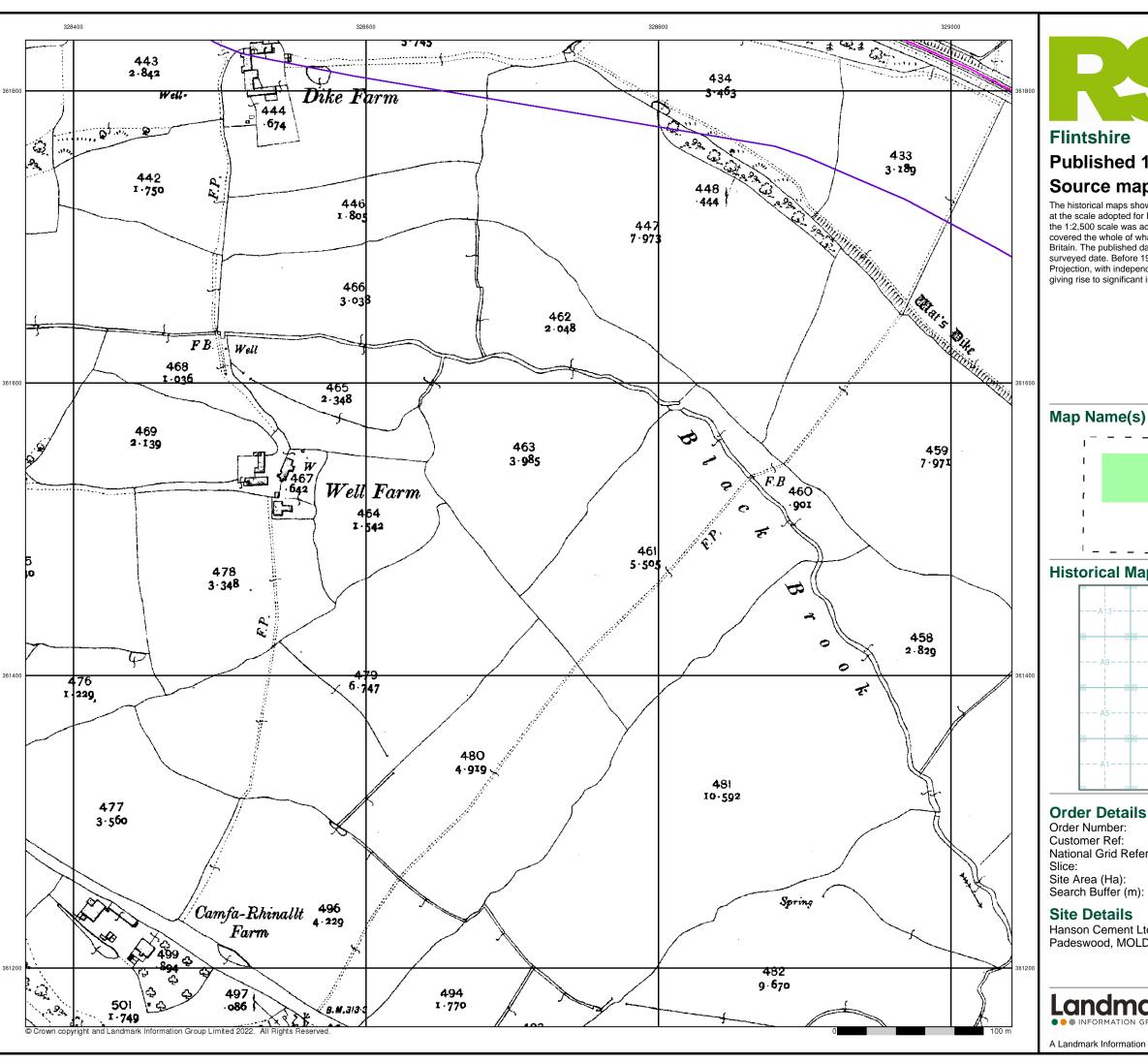
71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

0844 844 9952

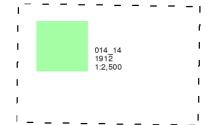
A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 10



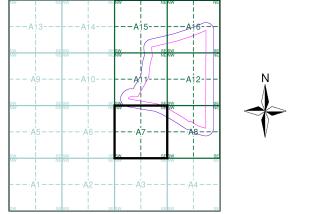
Published 1912 Source map scale - 1:2,500

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 A7



304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

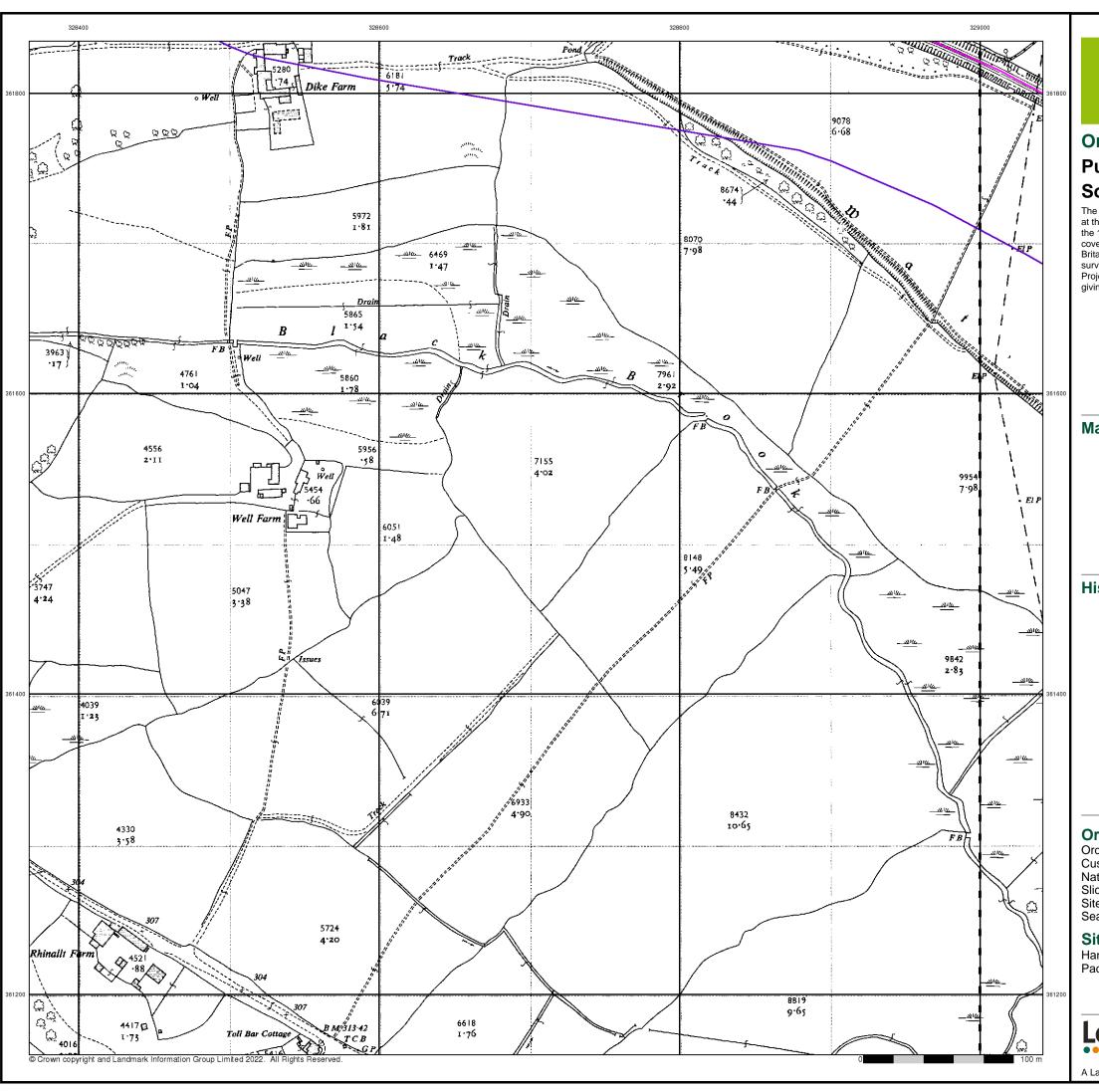
71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

0844 844 9952

A Landmark Information Group Service v50.0 07-Dec-2022 Page 4 of 10





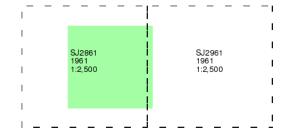
Ordnance Survey Plan

Published 1961

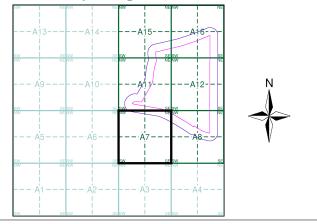
Source map scale - 1:2,500

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)



Historical Map - Segment A7



Order Details

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

Site Details

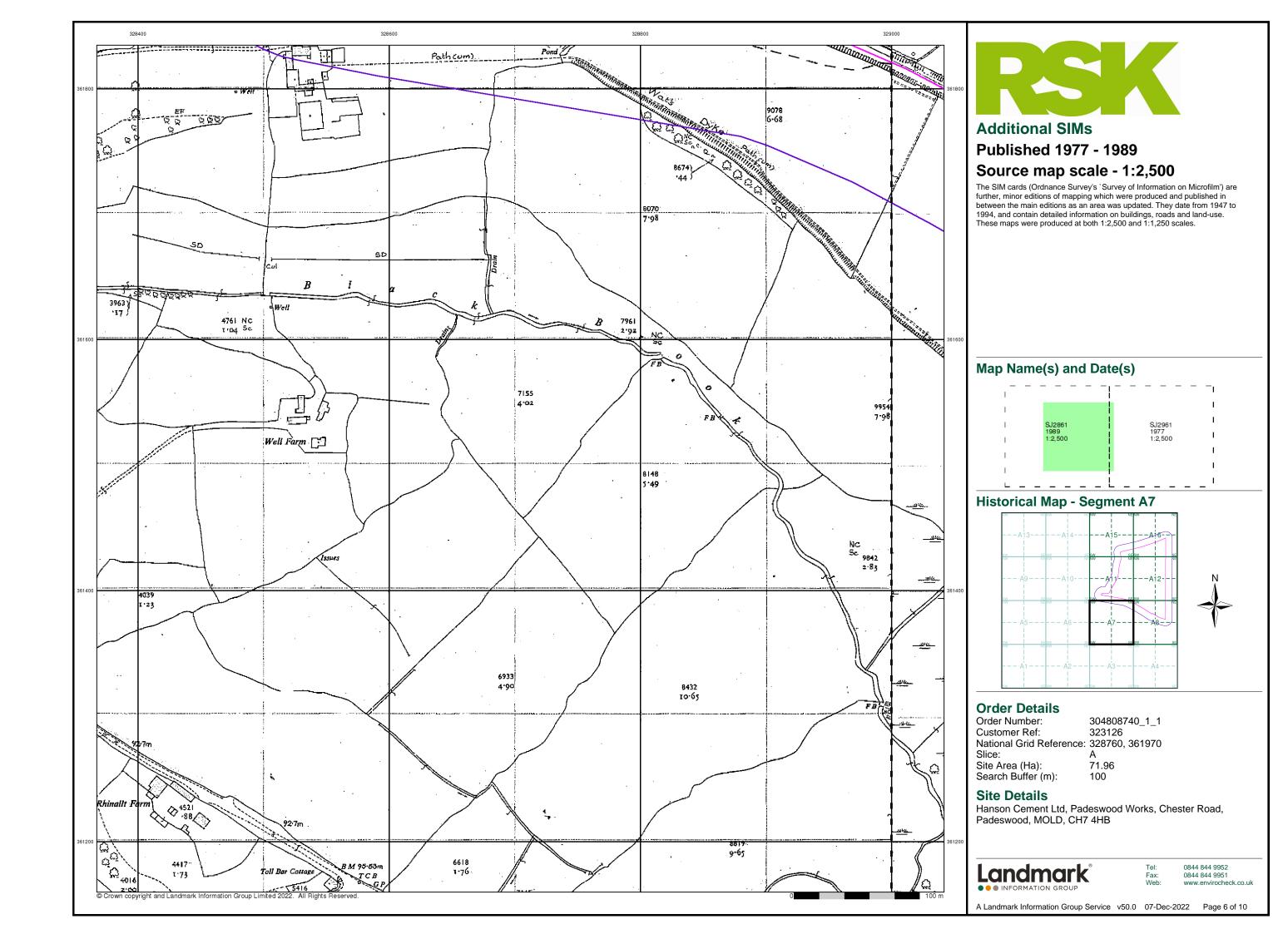
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

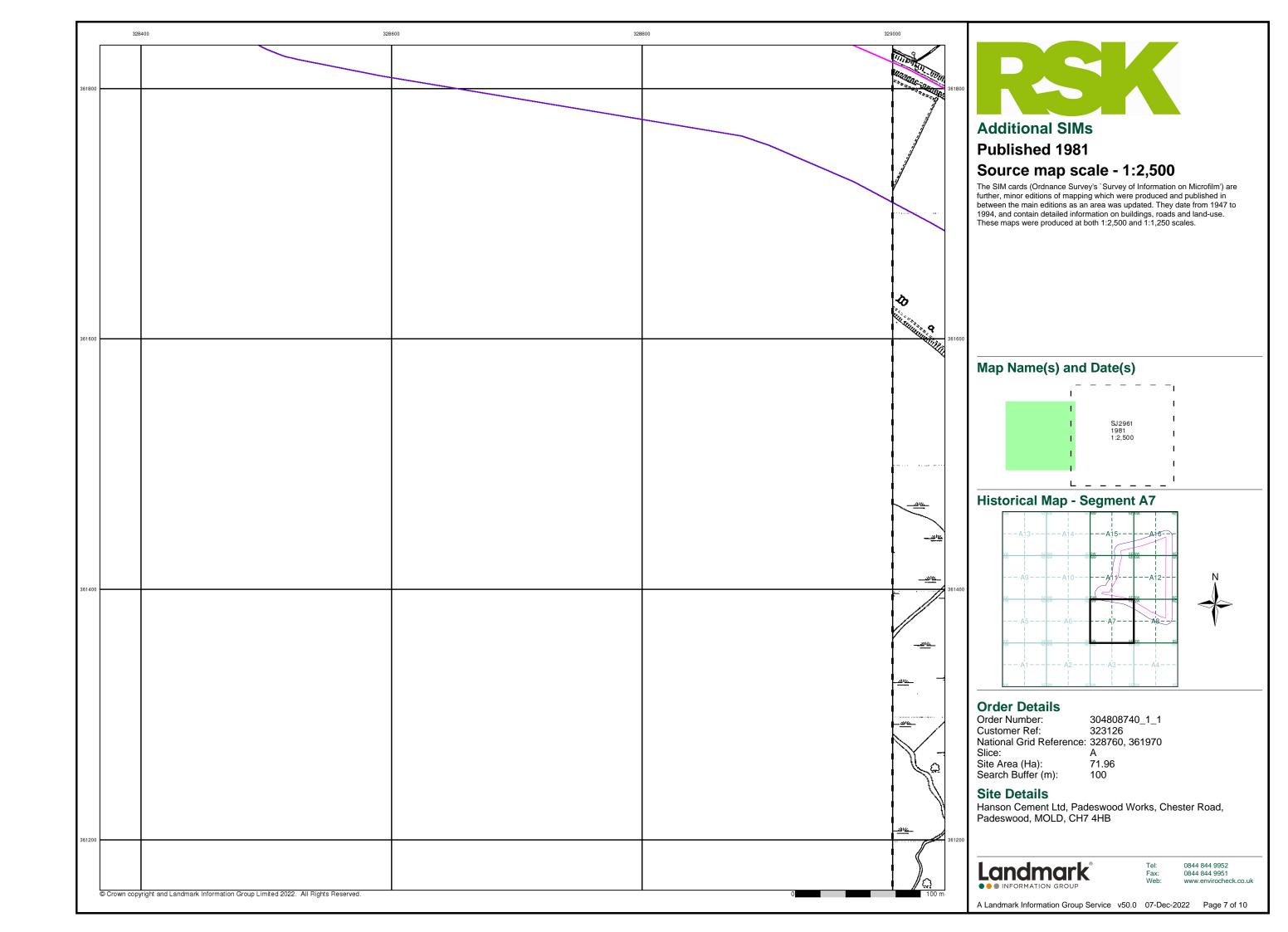
Landmark

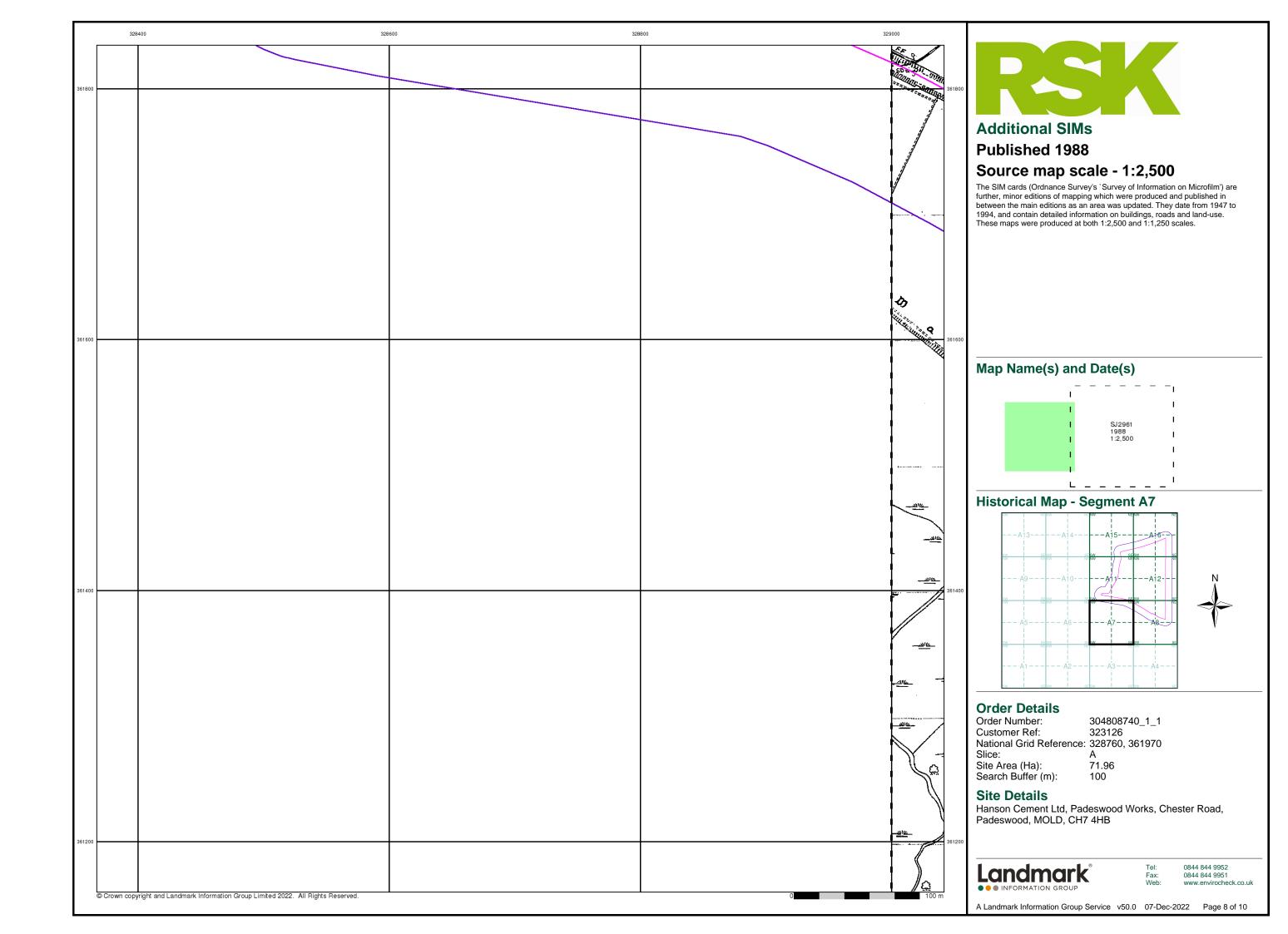
INFORMATION GROUP

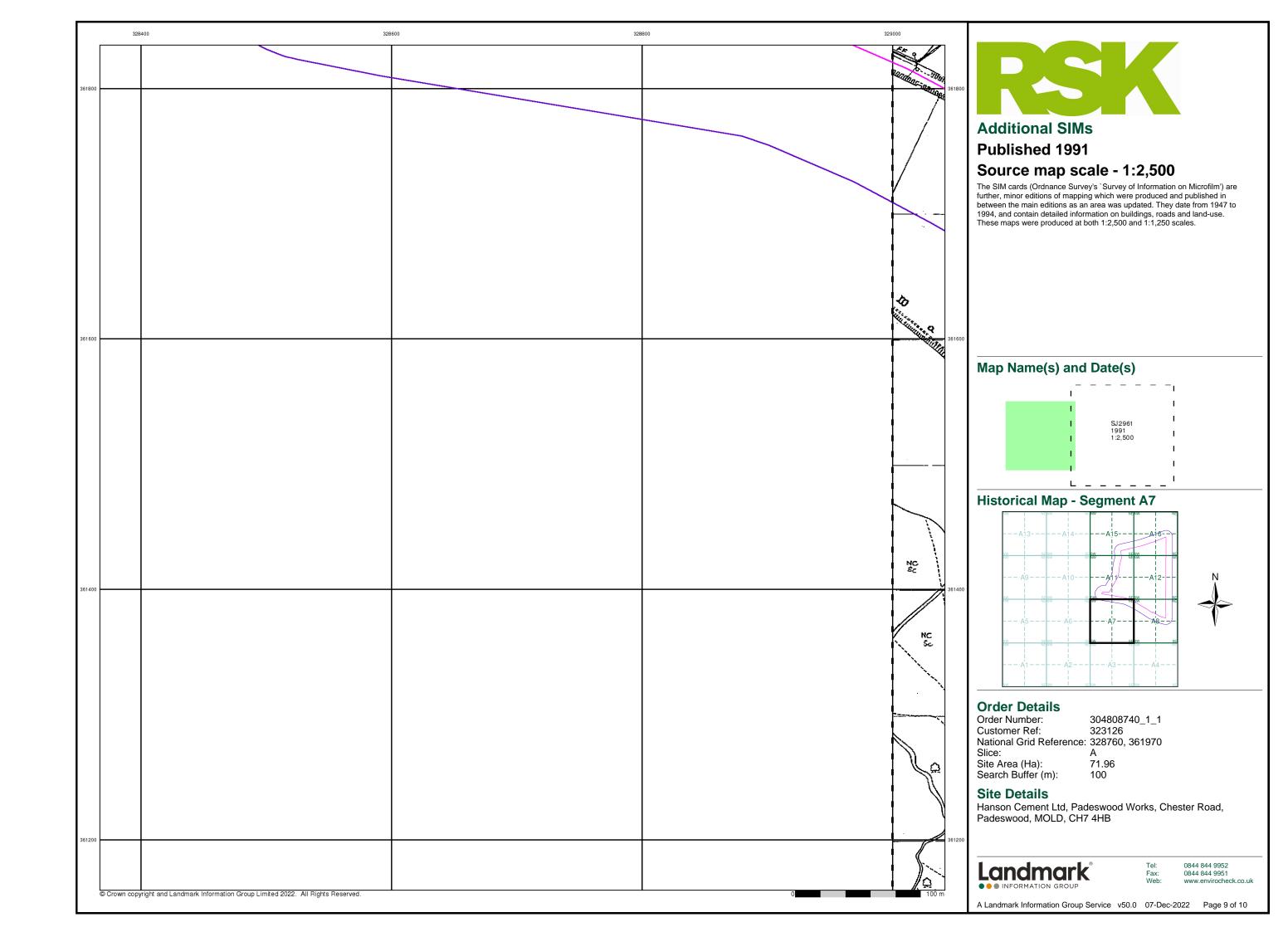
Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirocheck

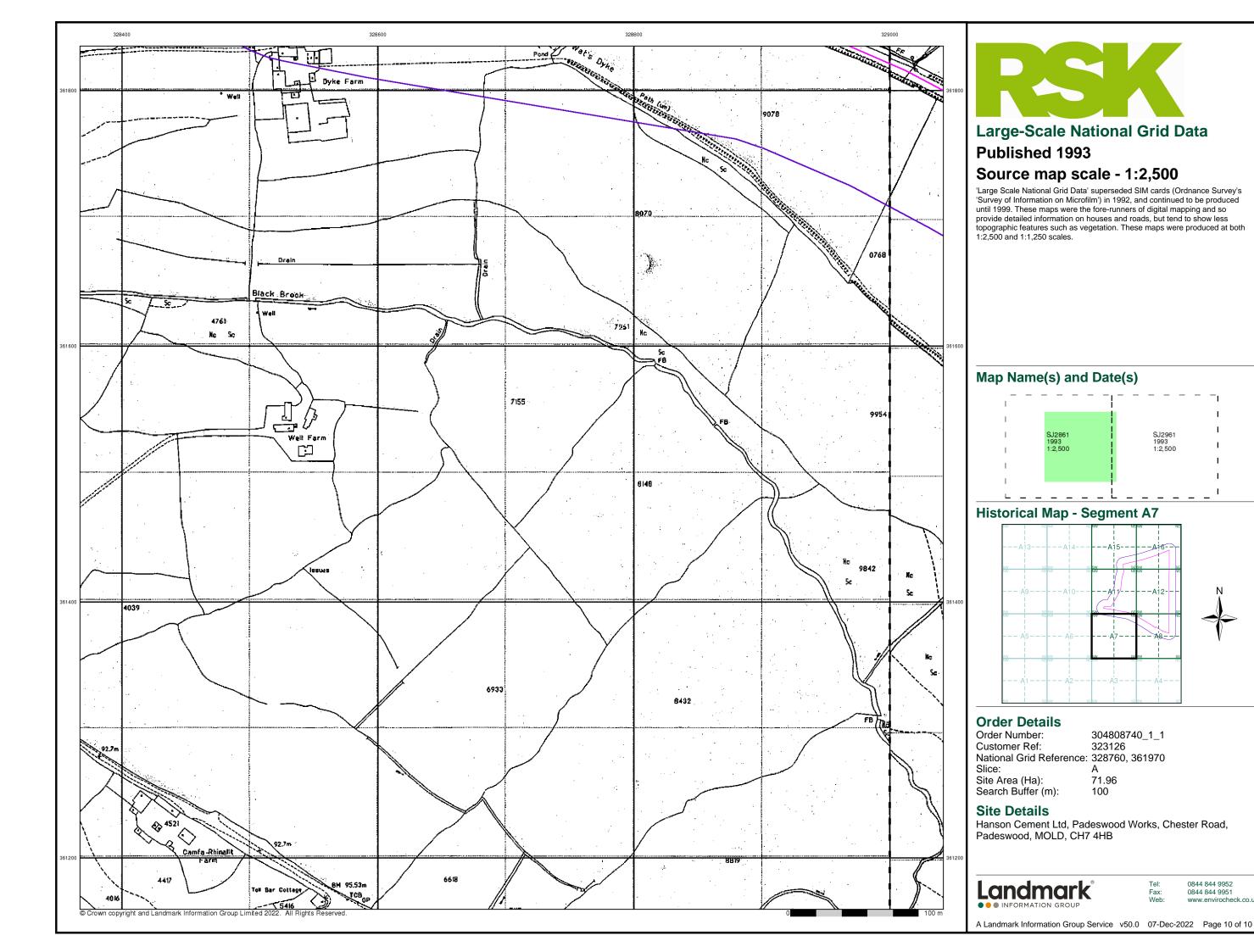
A Landmark Information Group Service v50.0 07-Dec-2022 Page 5 of 10





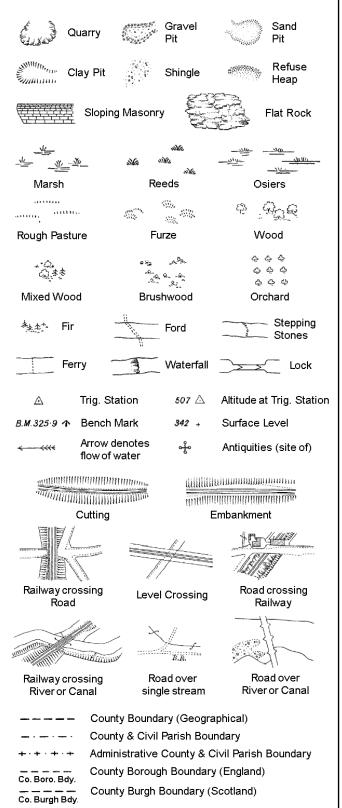






Historical Mapping Legends

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



B.R.

EP

F.B.

Bridle Road

Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

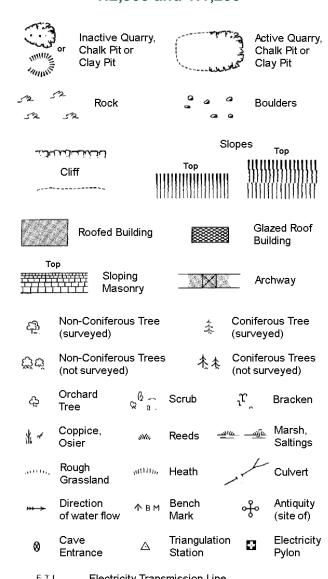
Trough Well

S.P

Sl.

Tr:

Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 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

,			
вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

1:1,250

المارين Slopes Top					Тор
Cliff		T	ор	1111111	<u> </u>
~~~ <del>~</del>					
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25	Rock		23	Rock (so	attered)
$\triangle$	Boulders		<u>a</u>	Boulders	(scattered)
	Positioned Boul	der		Scree	
<u>ක</u> ු	Non-Coniferous (surveyed)	Tree	\$	Conifero (surveye	
స్టోచ	Non-Coniferous (not surveyed)	Trees	<del></del>	Conifero (not surv	ous Trees /eyed)
දා	Orchard Tree	g ^{lo} Ω. Scr	ub	ıμ,	Bracken
* ~	Coppice, Osier	.w. Re∈	eds <u></u>	<u> </u>	Marsh, Saltings
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rough Grassland	aum, Hea	ath	1	Culvert
<del>»» &gt;-</del>	Direction of water flow		ıngulation tion	ું જે	Antiquity (site of)
ETL_	_ Electricity Tr	ansmissior	n Line	$\boxtimes$	Electricity Pylon
\ <del>-</del> \ ■₩	231.6úm Bench	Mark		Building Building	gs with g Seed
	Roofed Bu	ilding		81	azed Roof ilding
• •		parish/con	-	oundary	
		nty bounda	-		
		ndary post/			
<i>,</i>	Bou	ndary mere lys appear	ing symb		
Bks	Barracks		Р	Pillar, Pol	e or Post
Bty	Battery		PO	Post Offic	
Cemy	Cemetery		PC	Public Co	onvenience
Chy	Chimney		Pp	Pump	
Cis	Cistern		Ppg Sta	Pumping	Station
Dismtd F	Rly Dismantled Ra	ailway	PW	Place of\	Vorship
El Gen S	ta Electricity Ger Station	nerating	Sewage P		wage Imping Station
EIP	Electricity Pole, F	Pillar	SB, S Br	Signal B	ox or Bridge
El Sub S	ta Electricity Sub S	tation	SP, SL	Signal Po	ost or Light
ED	Eilter Ded		e	Carina	

Filter Bed

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

**Guide Post** 

Manhole

GVC

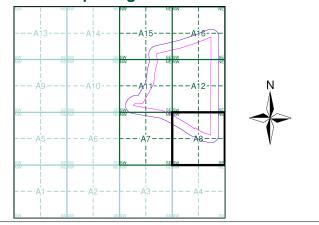
Gas Valve Compound

Mile Post or Mile Stone

#### **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1872	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1977	6
Additional SIMs	1:2,500	1981	7
Additional SIMs	1:2,500	1988	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10

### **Historical Map - Segment A8**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970 Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

#### **Site Details**

Tank or Track

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

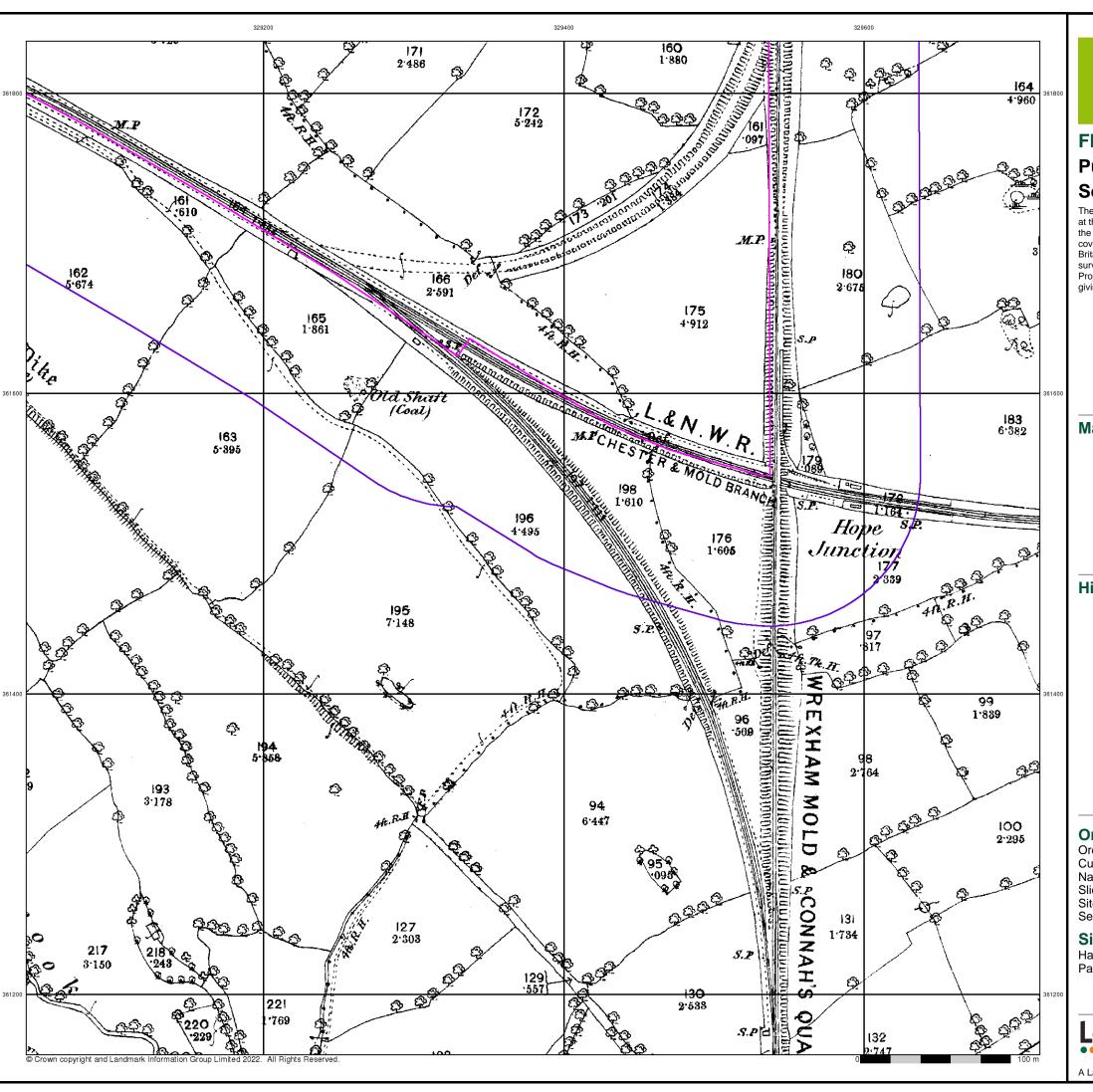
Wks

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 10

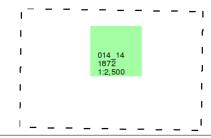




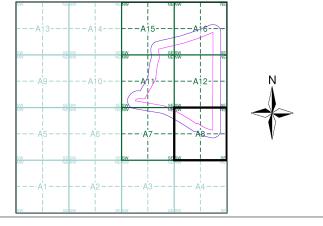
### **Published 1872** Source map scale - 1:2,500

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**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): Search Buffer (m): 71.96 100

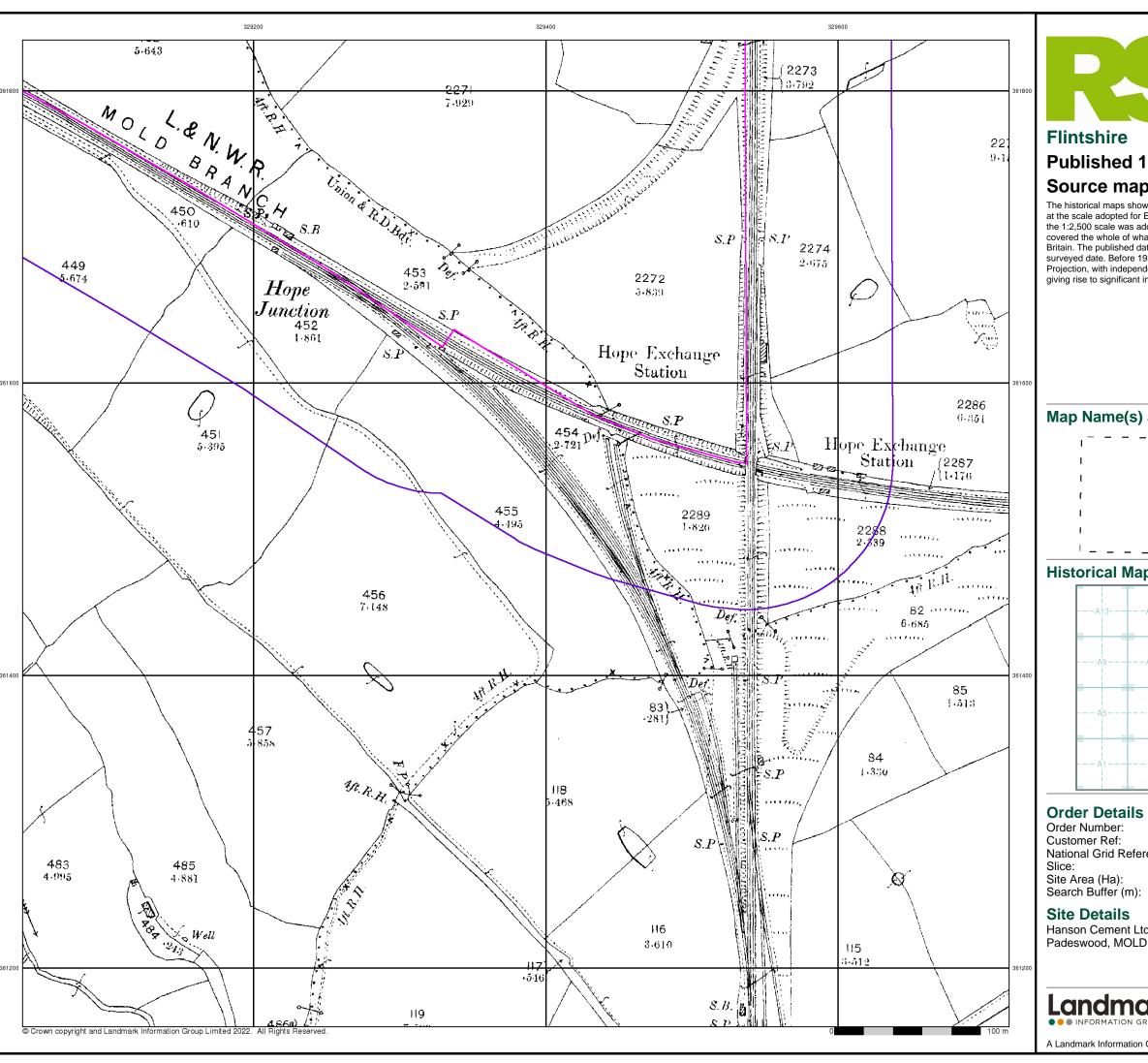
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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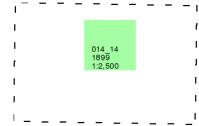
A Landmark Information Group Service v50.0 07-Dec-2022 Page 2 of 10



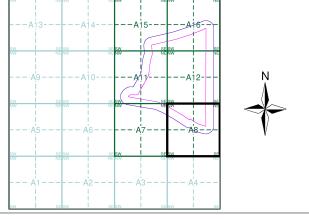
## **Published 1899** Source map scale - 1:2,500

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 A8**



304808740_1_1 323126 National Grid Reference: 328760, 361970

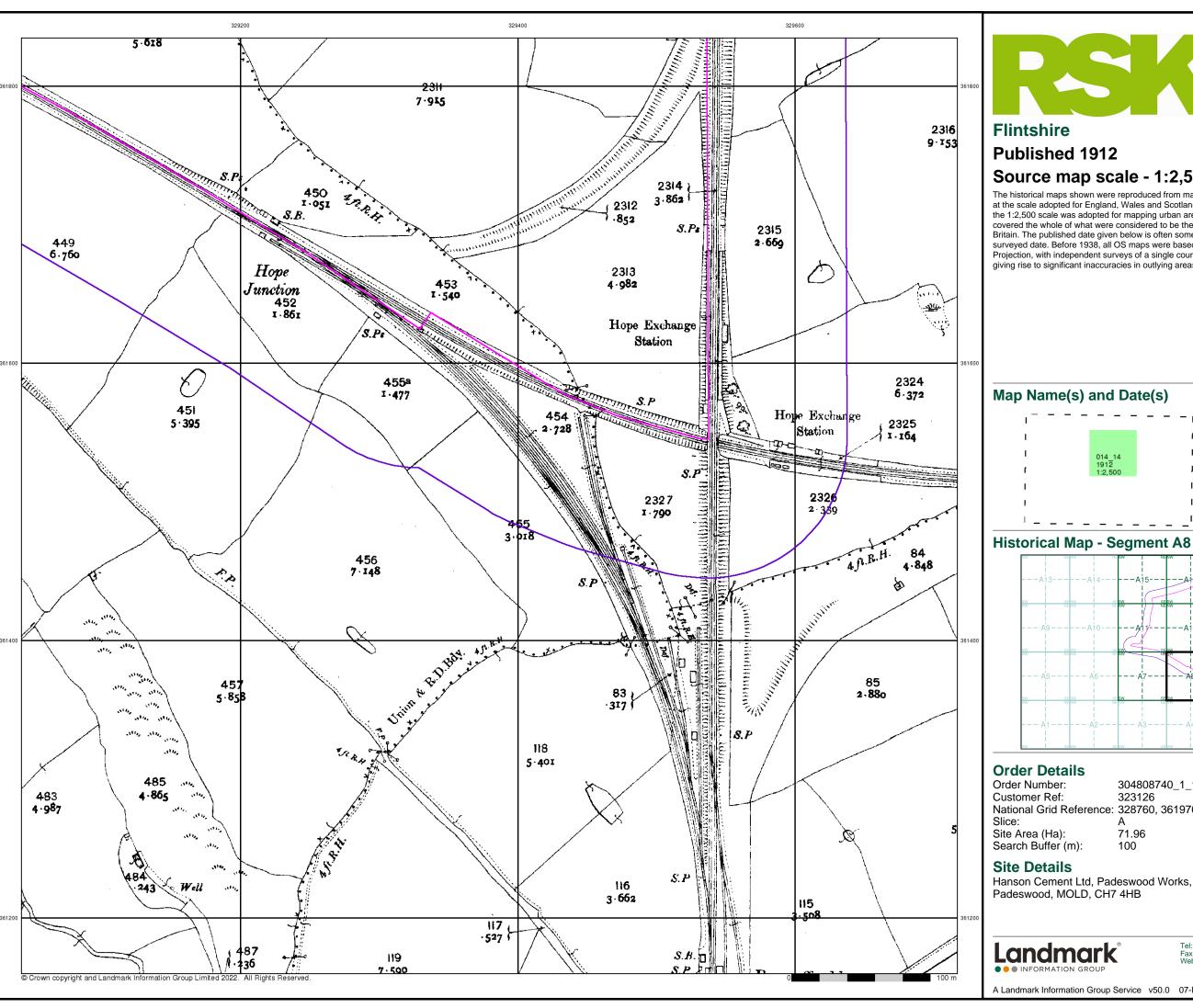
71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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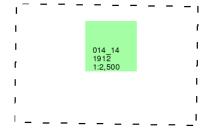
A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 10

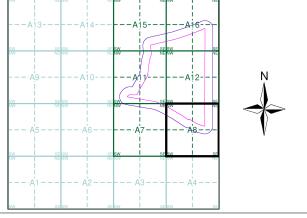


## Source map scale - 1:2,500

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)





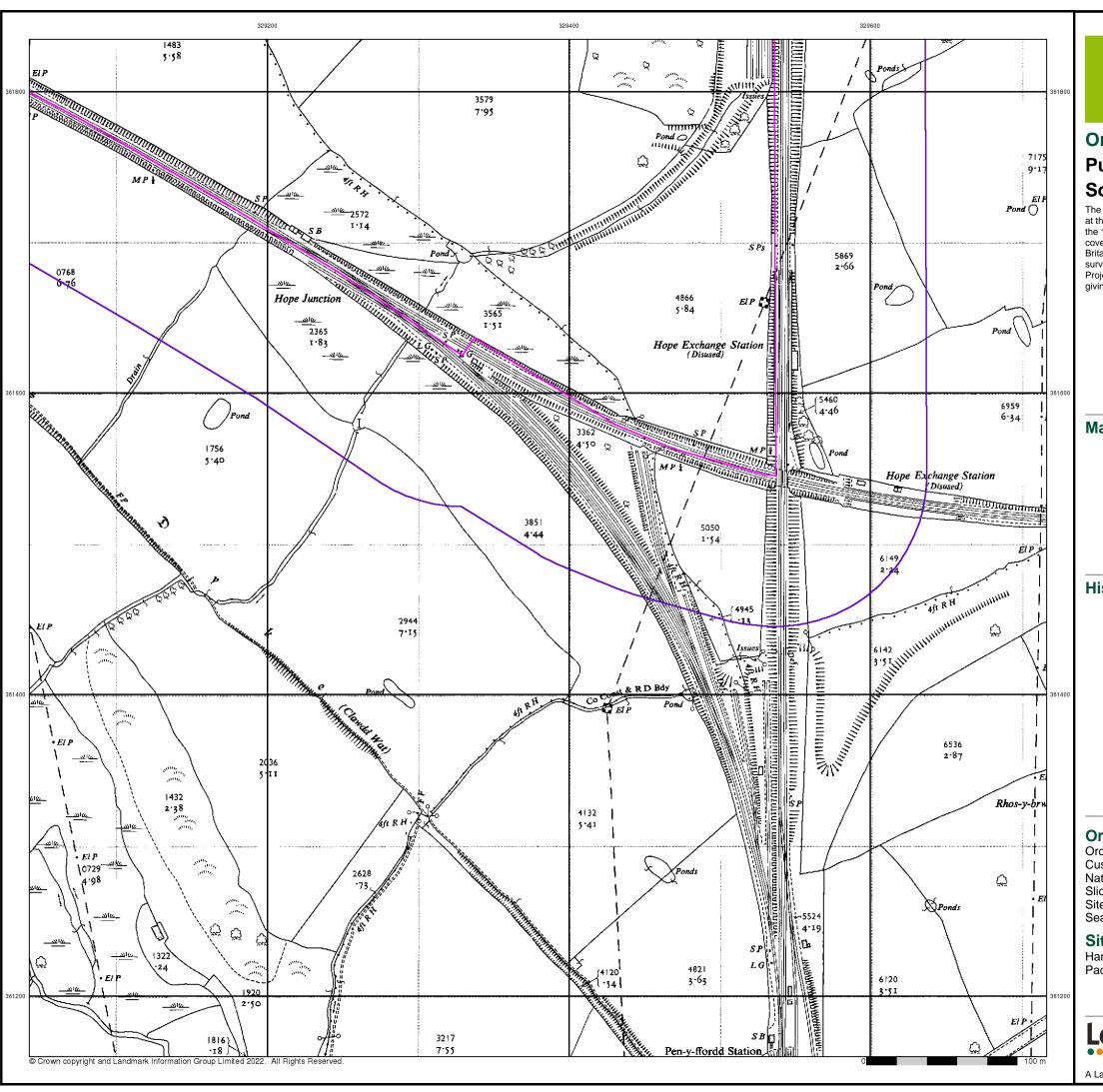
304808740_1_1 323126 National Grid Reference: 328760, 361970

71.96

Hanson Cement Ltd, Padeswood Works, Chester Road,

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 4 of 10





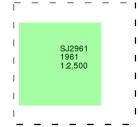
## **Ordnance Survey Plan**

## Published 1961

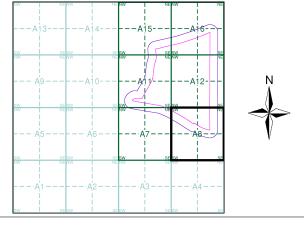
### Source map scale - 1:2,500

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)



#### **Historical Map - Segment A8**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

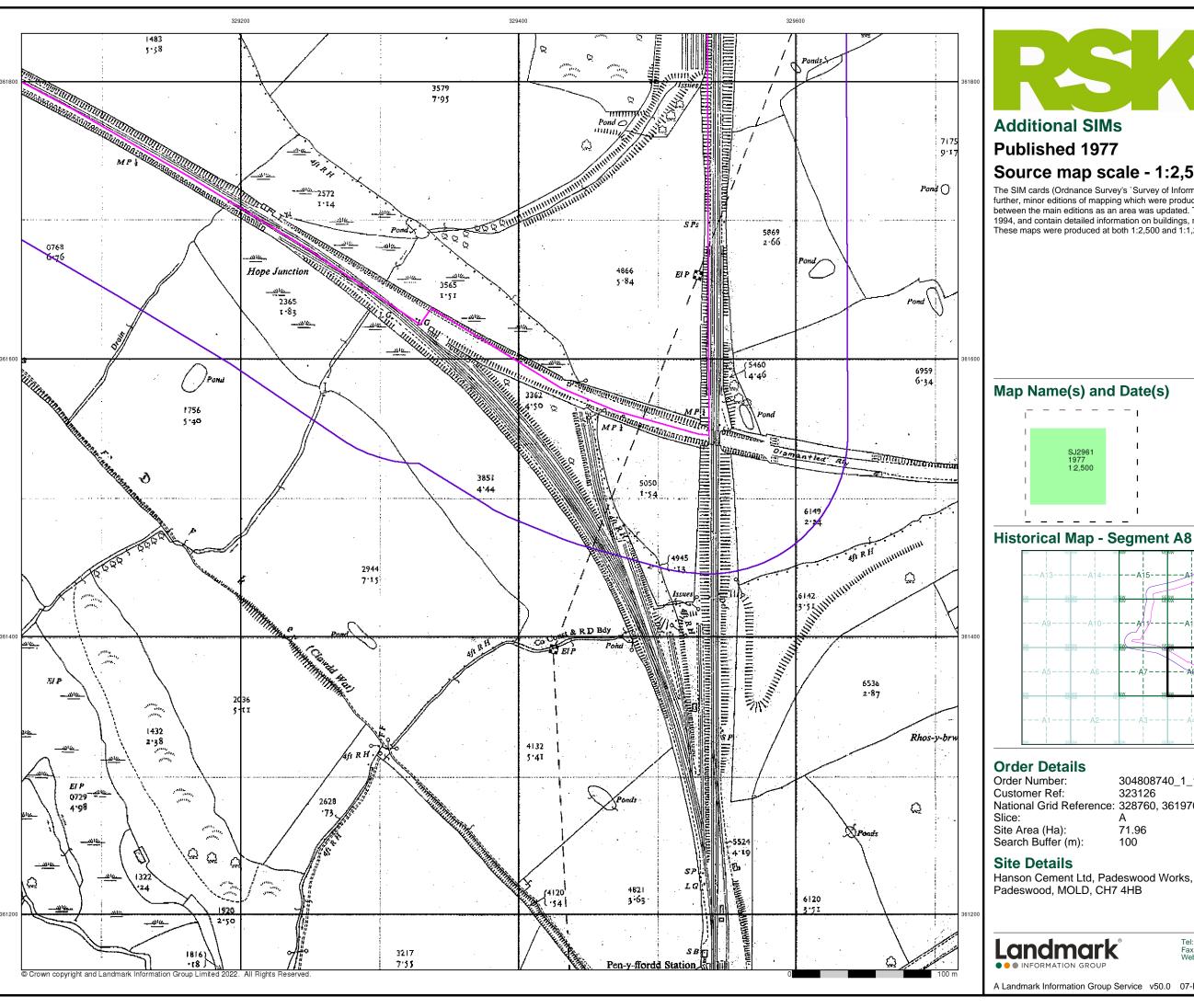
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



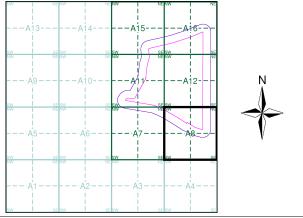
el: 0844 844 9952 ax: 0844 844 9951 'eb: www.envirocheck.co.uk

A Landmark Information Group Service v50.0 07-Dec-2022 Page 5 of 10



### 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.



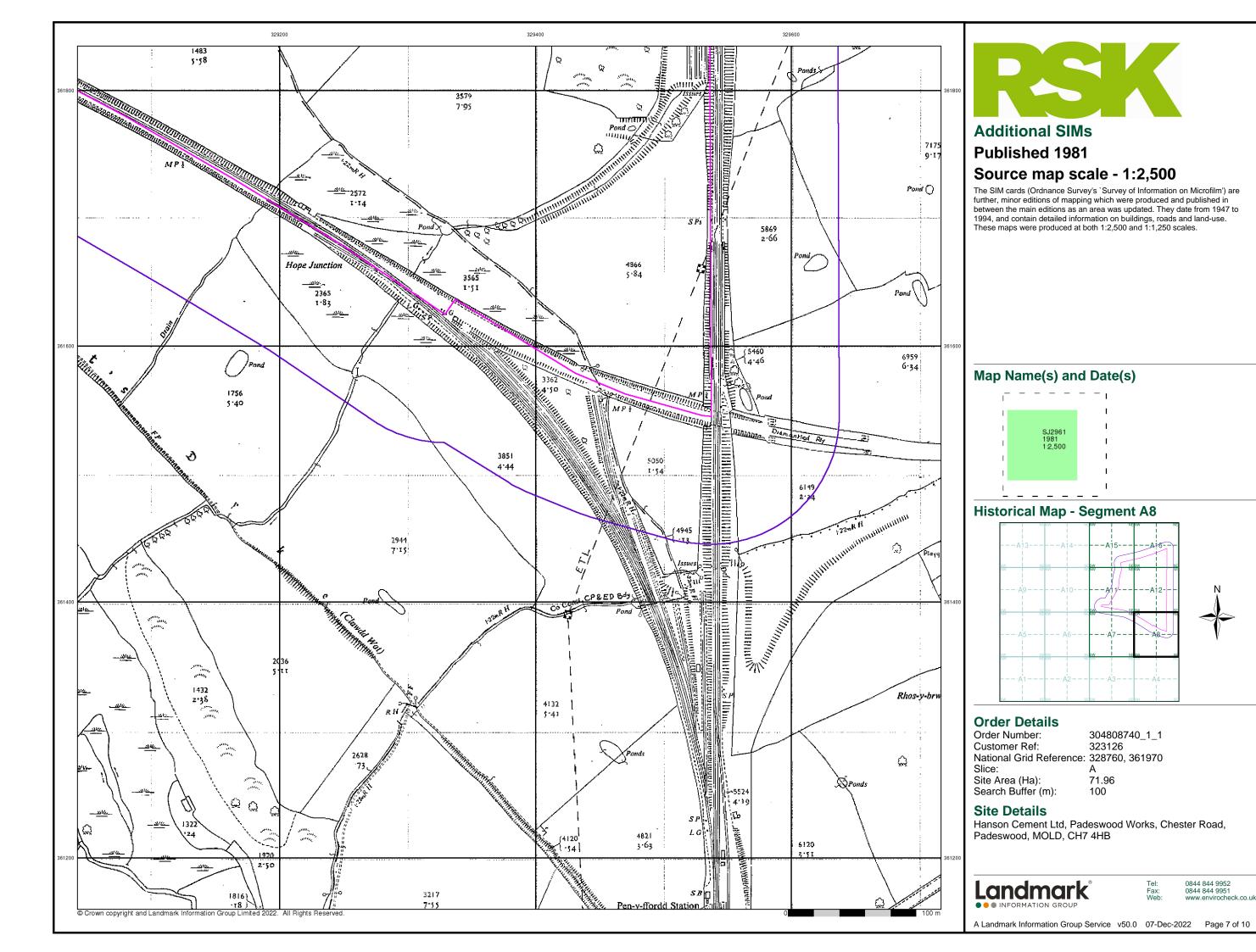
304808740_1_1 323126 National Grid Reference: 328760, 361970

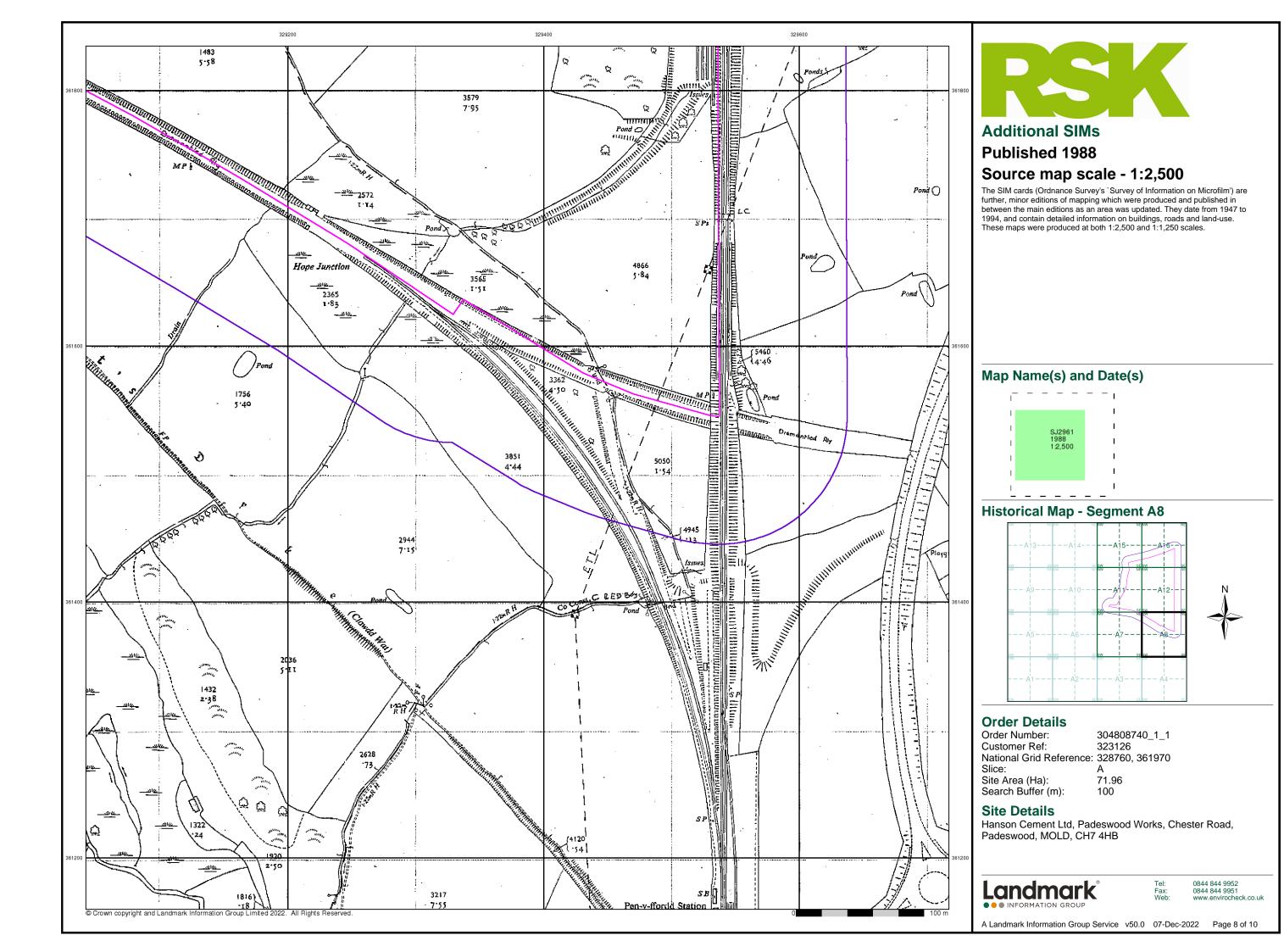
71.96

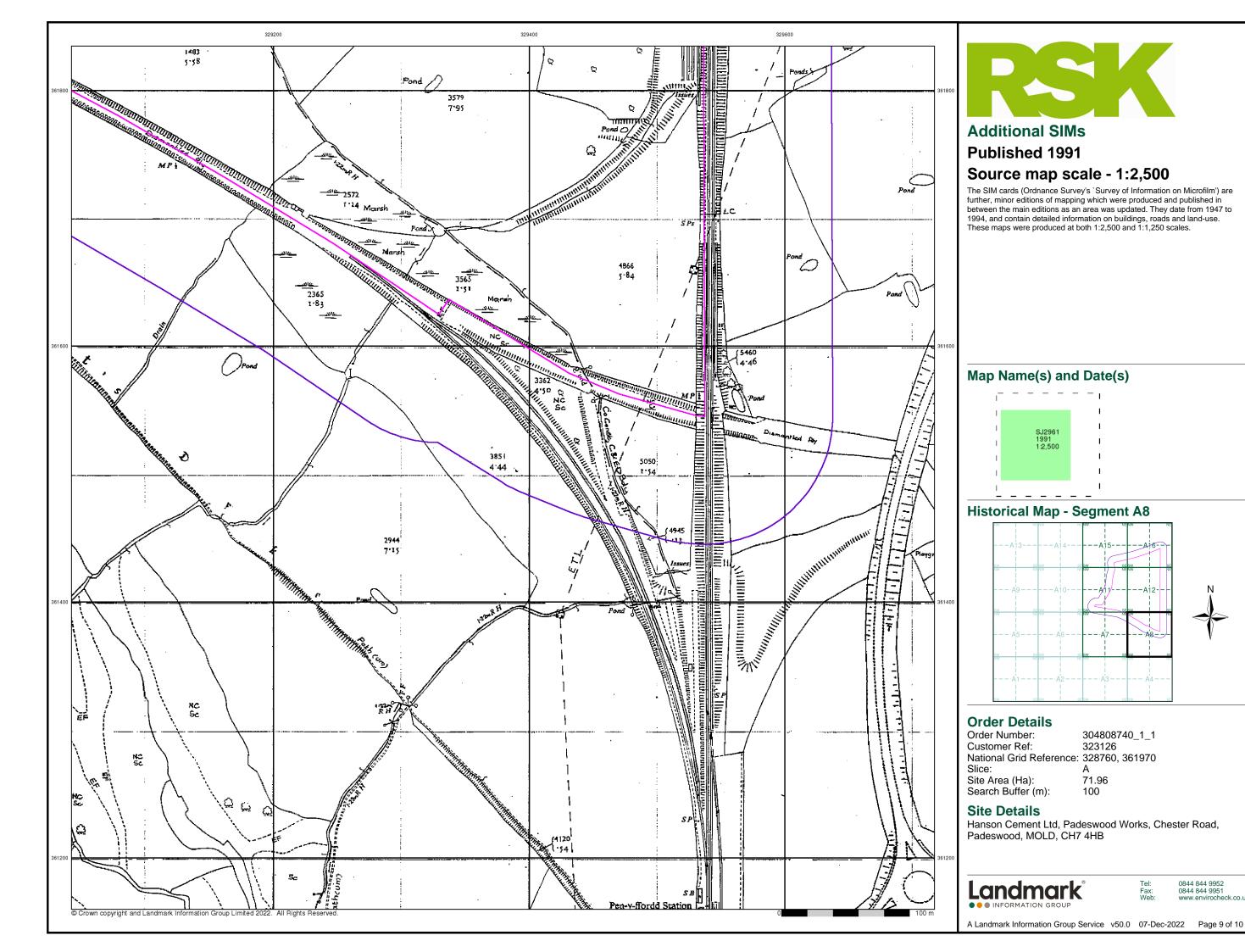
Hanson Cement Ltd, Padeswood Works, Chester Road,

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 6 of 10

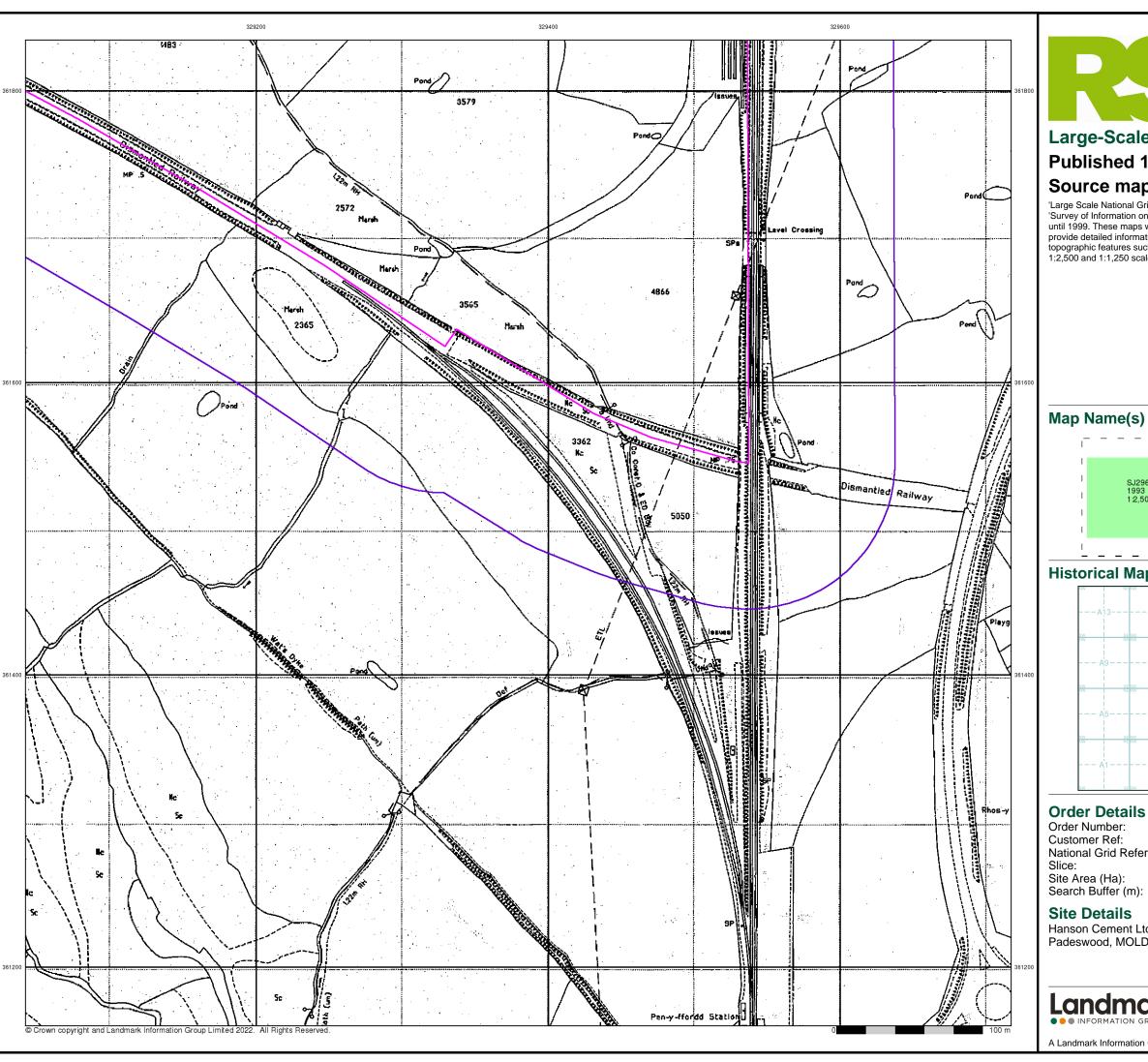






0844 844 9952

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## **Large-Scale National Grid Data**

### **Published 1993**

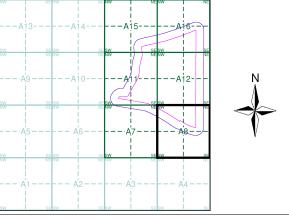
### Source map scale - 1:2,500

'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**

304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

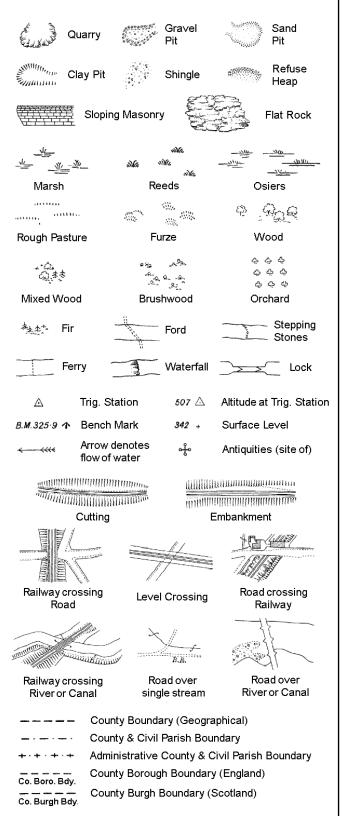
Landmark

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 07-Dec-2022 Page 10 of 10

# **Historical Mapping Legends**

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



B.R.

E.P

F.B.

M.S

Bridle Road

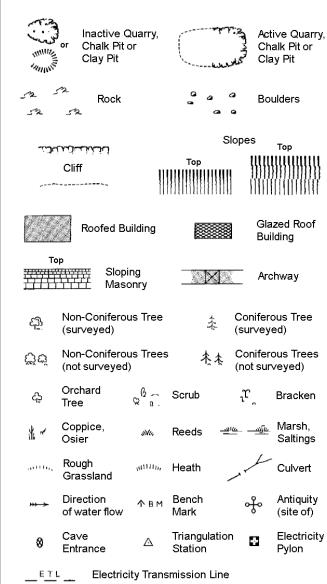
Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

# Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

County Boundary (Geographical) County & Civil Parish Boundary

Admin. County or County Bor. Boundary

Symbol marking point where boundary

Civil Parish Boundary

mereing changes

London Borough Boundary

L B Bdy

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

Trough Well

S.P

Sl.

Tr:

# 1:1,250

			SI	opes Top
	لكنيسات		Тор	Mannin Mannin
	Cliff			
		[]]	111111111111111111111111111111111111111	111111111111111111111
23	Rock		7,3	Rock (scattered)
$\triangle_{a}$	Boulders		Δ	Boulders (scattered)
	Positioned	Boulder		Scree
<u>කු</u>	Non-Conif (surveyed	erous Tree )	*	Coniferous Tree (surveyed)
ਨੁੱਖ	Non-Conif (not surve	erous Trees yed)	大大	Coniferous Trees (not surveyed)
දා	Orchard Tree	Q a.	Scrub	_າ ຕຸ Bracken
* ~	Coppice, Osier	sHu,	Reeds ÷	<u>வடி அட</u> ி Marsh, Saltings
actilia,	Rough Grassland	$uuu_{t_0}$	Heath	Culvert
<del>»» &gt;</del>	Direction of water flo	Δ	Triangulatio Station	n Antiquity (site of)
E_TL	_ Electric	ity Transmi	ssion Line	Electricity Pylon
/ <del>/</del> / BM	291.60m E	Bench Mark		Buildings with Building Seed
	Roofe	ed Building		Glazed Roof Building
		Civil pariet	ı/community l	houndary
		District bo	=	oodildal y
		County box	-	
٥				
٥			mereing syml	ool (note: these ed pairs or groups
Bks	Barracks		Р	Pillar, Pole or Post
Bty	Battery		PO	Post Office
Cemy	Cemetery		PC	Public Convenience
Chy	Chimney		Pp	Pump
Cis	Cistern	tlad Daikvas	Ppg Sta PW	Pumping Station Place of Worship
Dismtd R El Gen Si	-	tled Railway ity Generating		
EIP		Pole, Pillar	SB, S Br	Signal Box or Bridge
	ta Electricity		SP, SL	Signal Post or Light
FB	Filter Bed		Spr	Spring

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

**Guide Post** 

Manhole

GVC

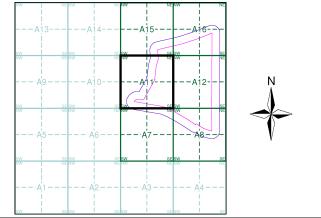
Gas Valve Compound

Mile Post or Mile Stone

# **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1872	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1977 - 1989	6
Additional SIMs	1:2,500	1981 - 1989	7
Additional SIMs	1:2,500	1988 - 1989	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10

# **Historical Map - Segment A11**



#### **Order Details**

Order Number: 304808740_1_1 323126 Customer Ref: National Grid Reference: 328760, 361970 Slice:

Tank or Track

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

Wks

71.96 Site Area (Ha): Search Buffer (m): 100

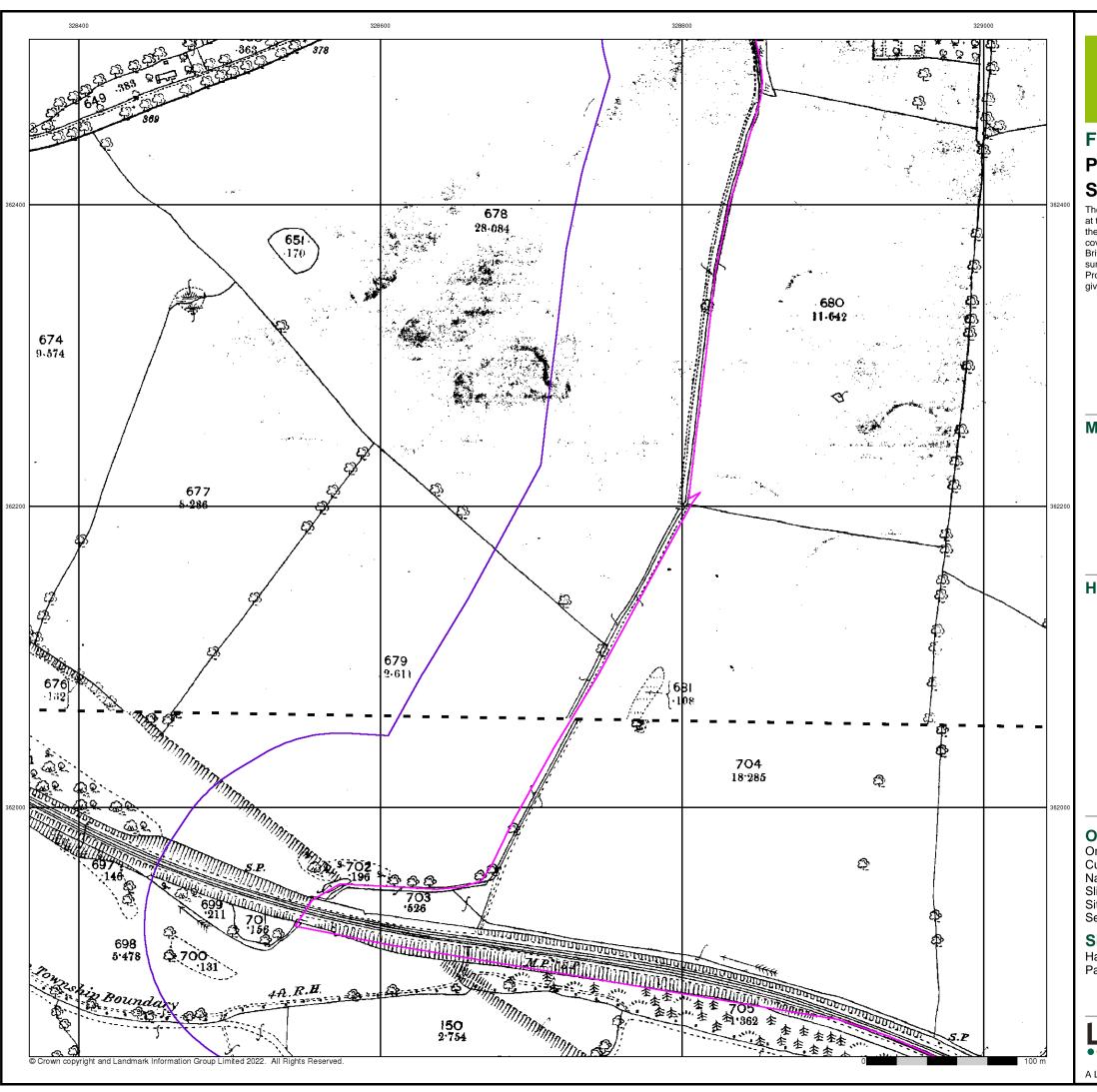
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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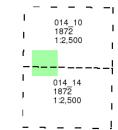
A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 10



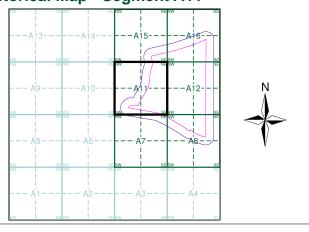
# **Published 1872** Source map scale - 1:2,500

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**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970 Slice:

Site Area (Ha): Search Buffer (m): 71.96 100

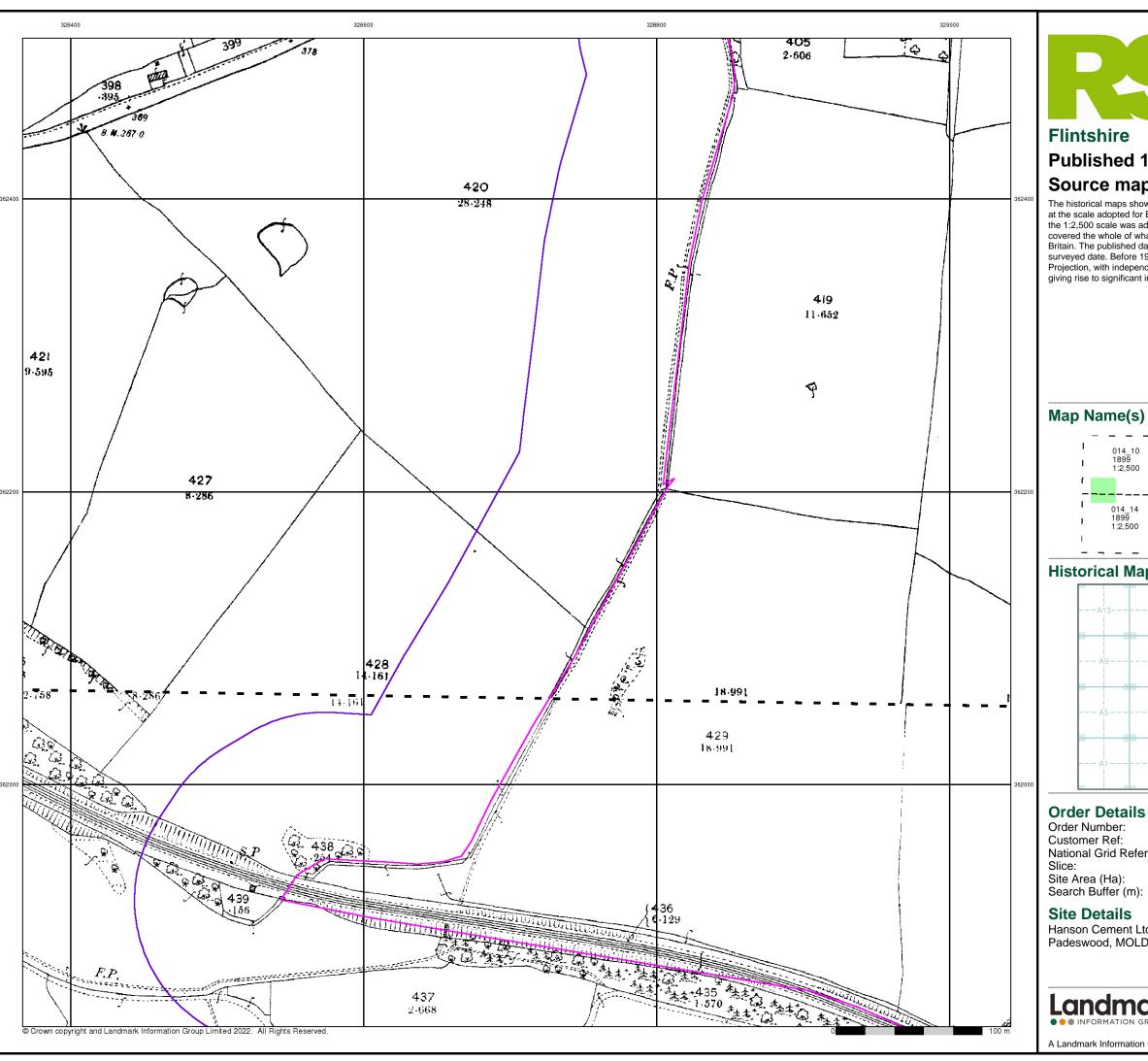
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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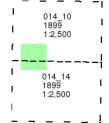
A Landmark Information Group Service v50.0 07-Dec-2022 Page 2 of 10



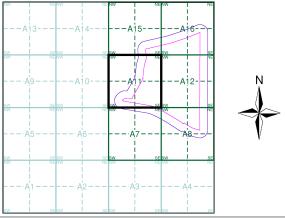
# Published 1899 Source map scale - 1:2,500

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**



304808740_1_1 323126 National Grid Reference: 328760, 361970

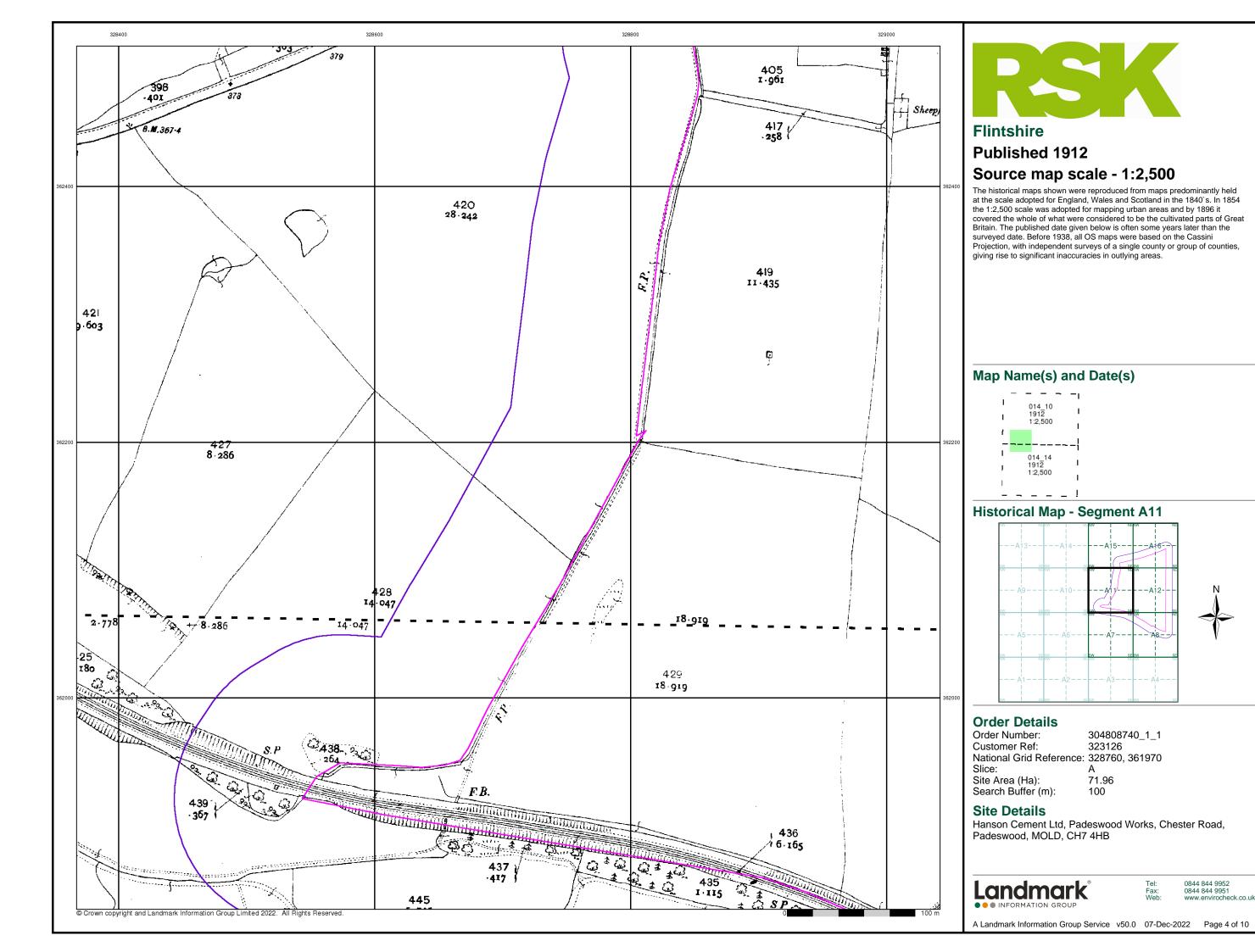
71.96 100

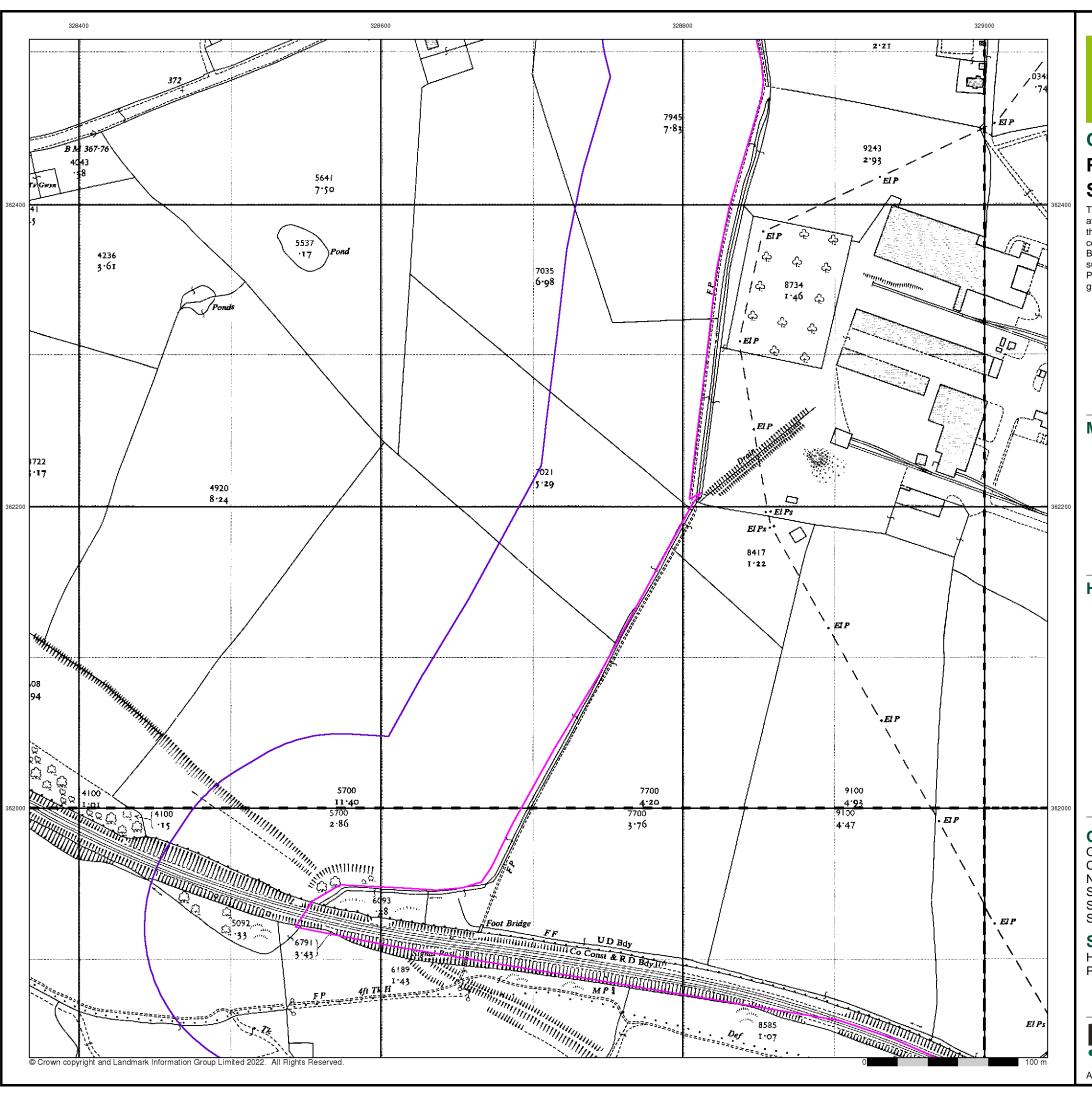
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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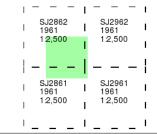
# Ordnance Survey Plan

# Published 1961

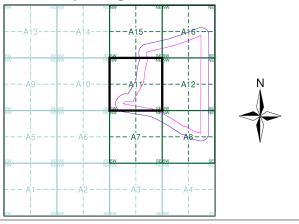
# Source map scale - 1:2,500

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)



# **Historical Map - Segment A11**



### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

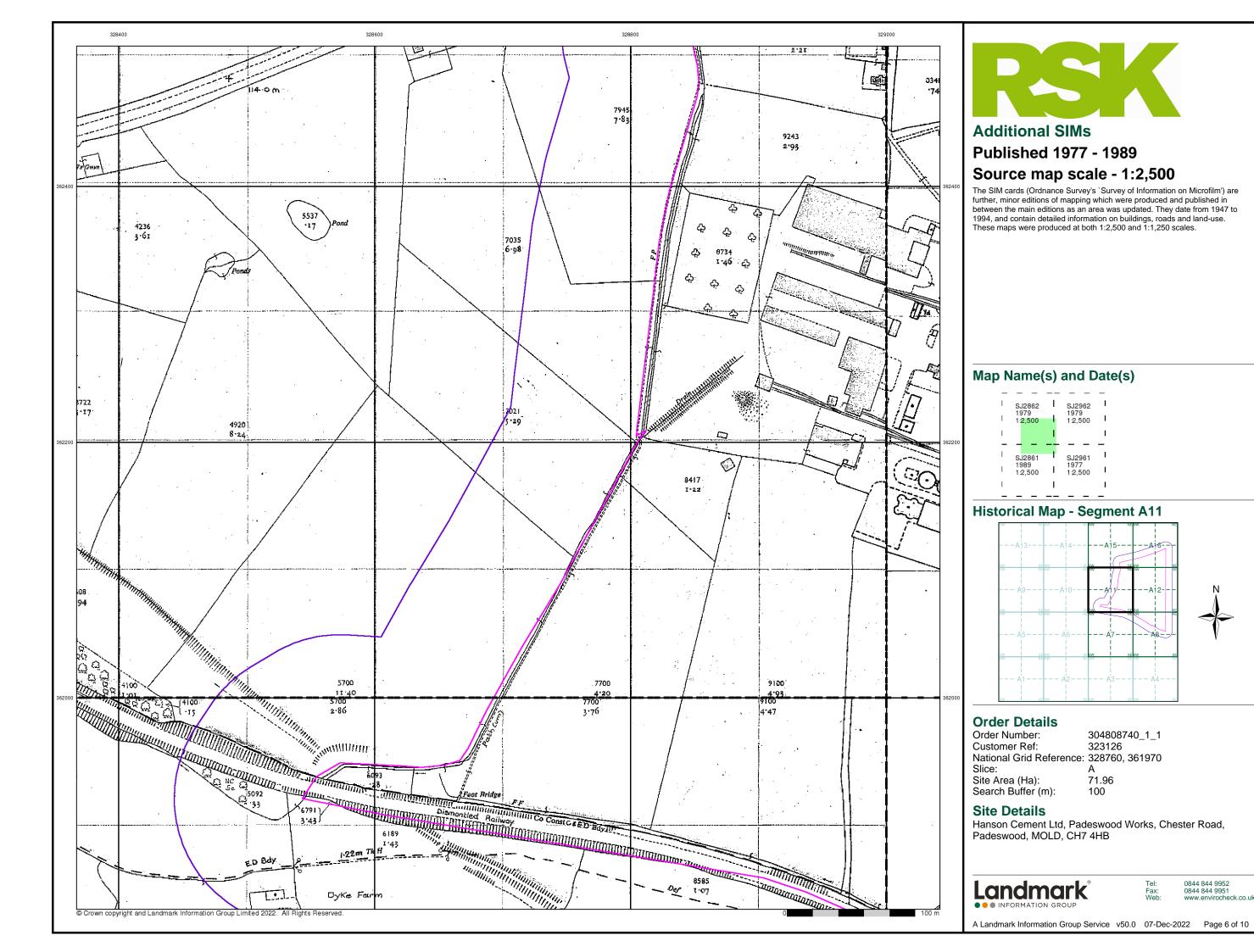
#### **Site Details**

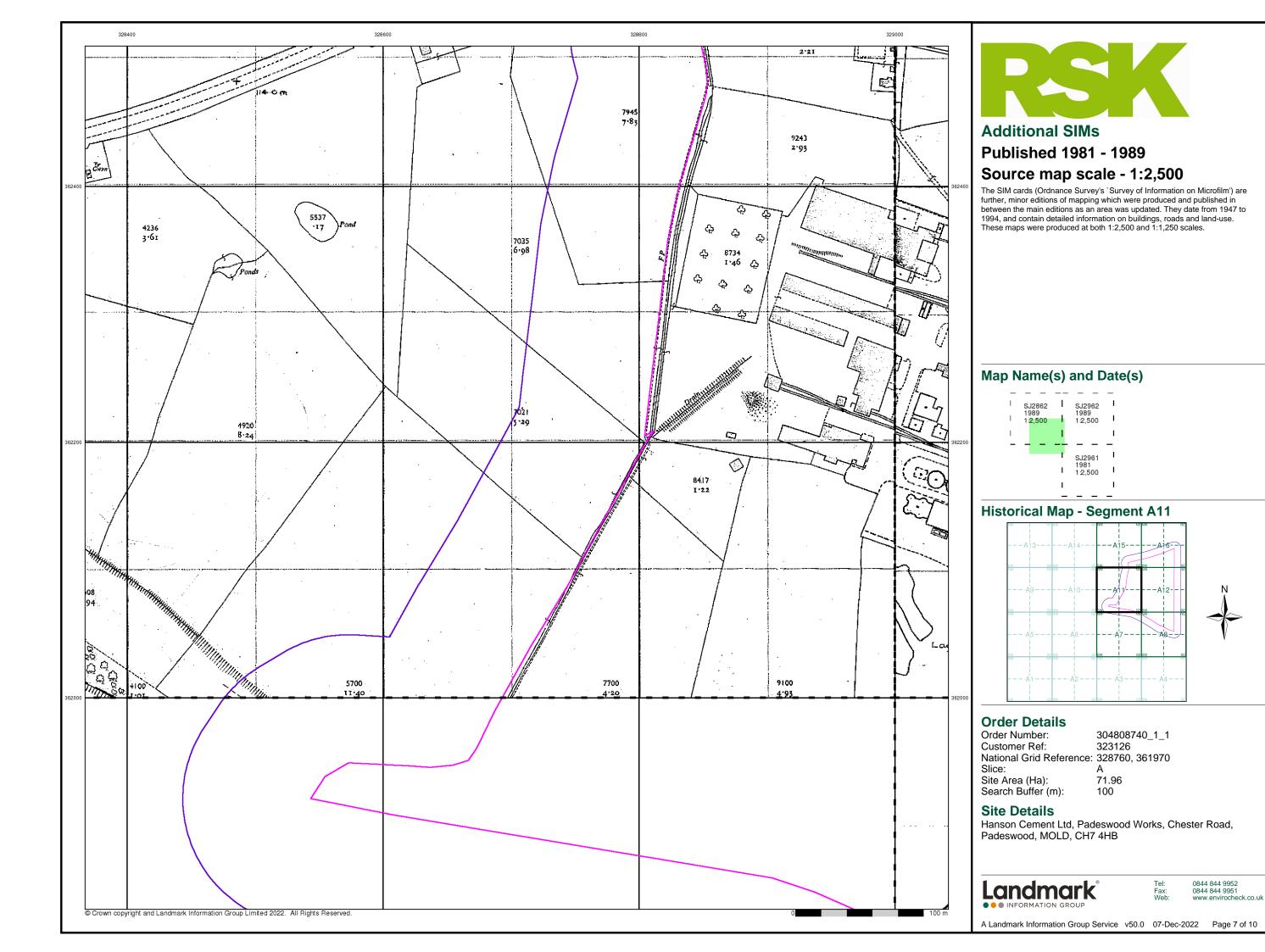
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

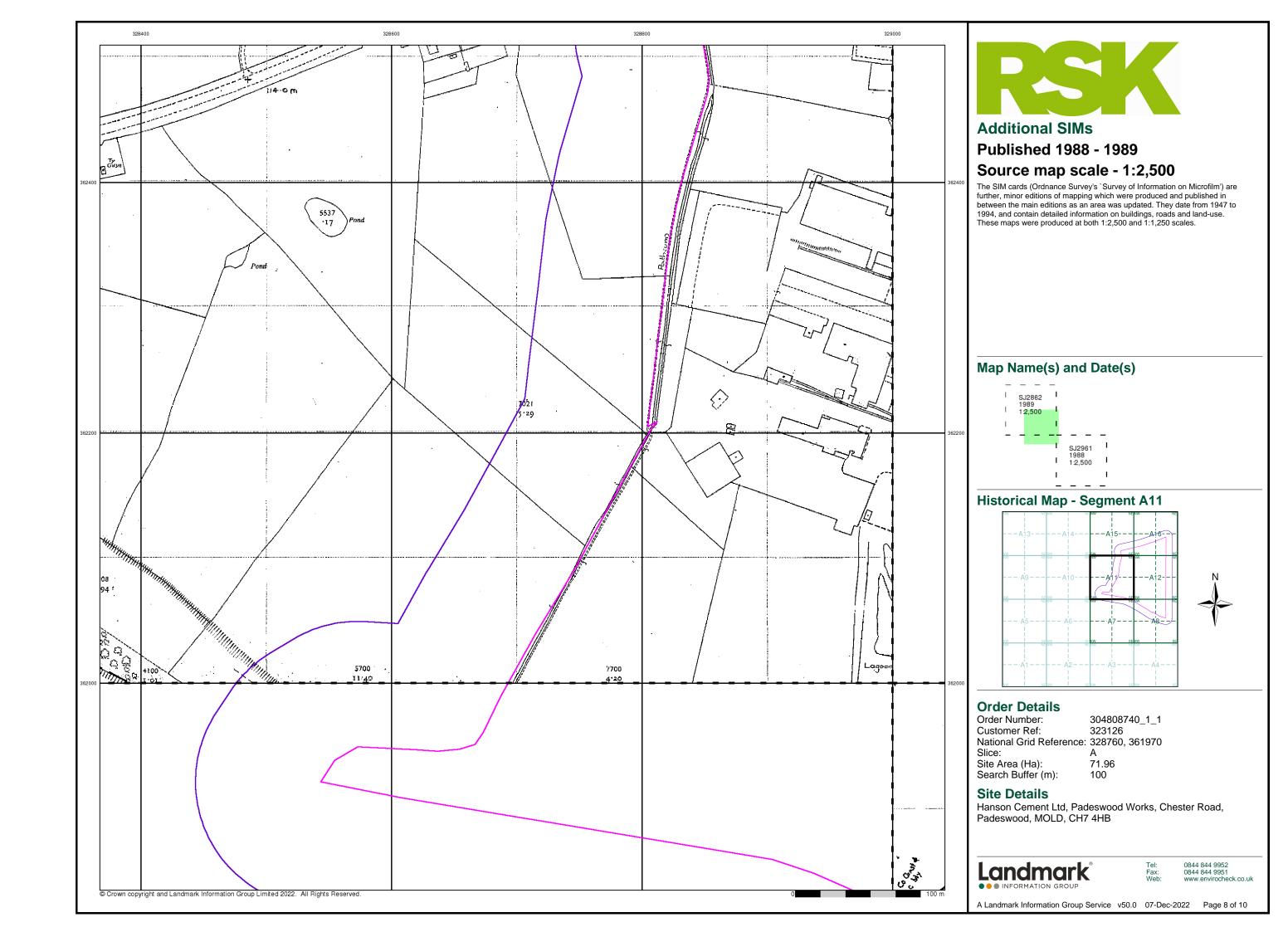


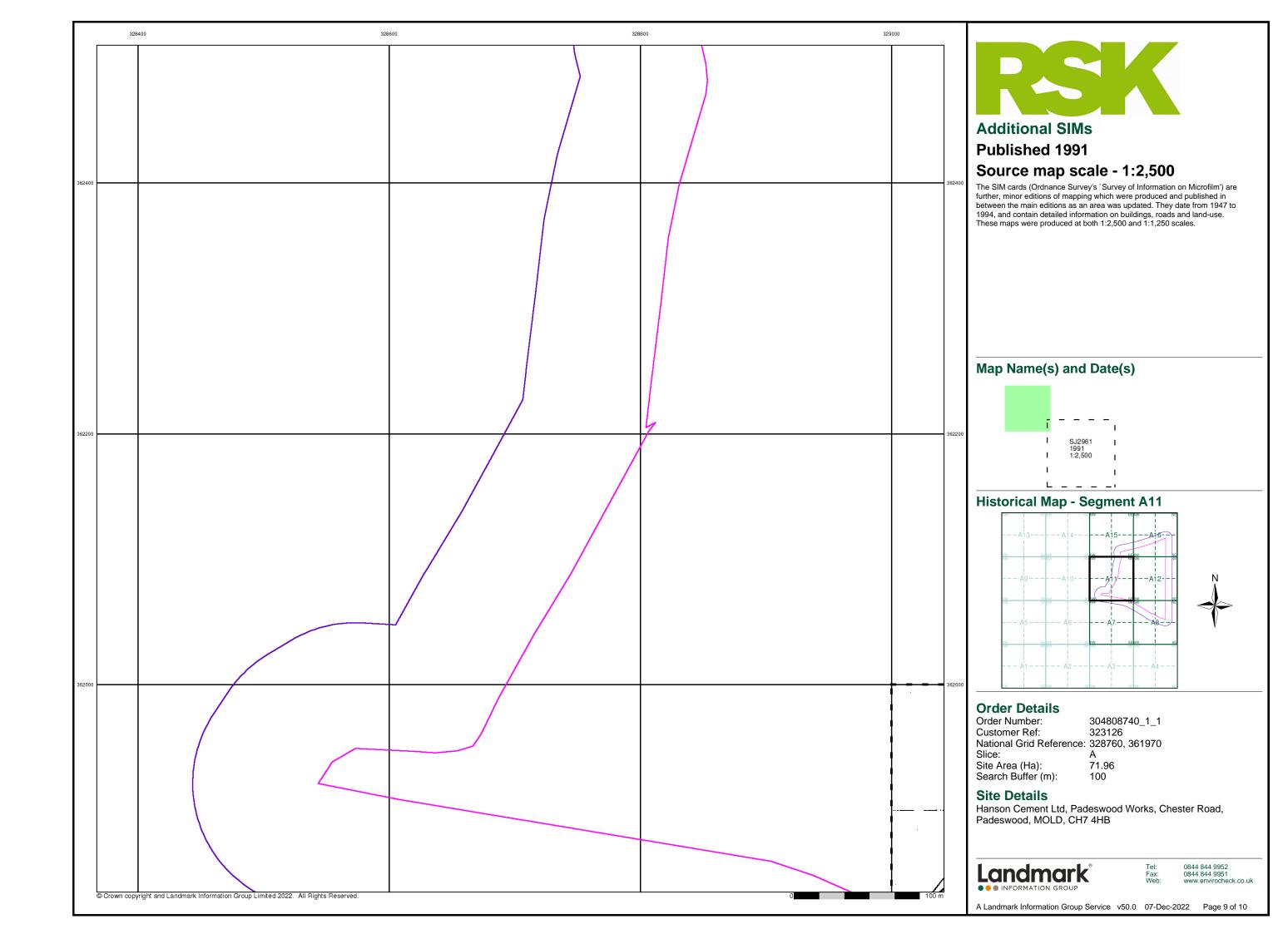
Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirocheck.co.uk

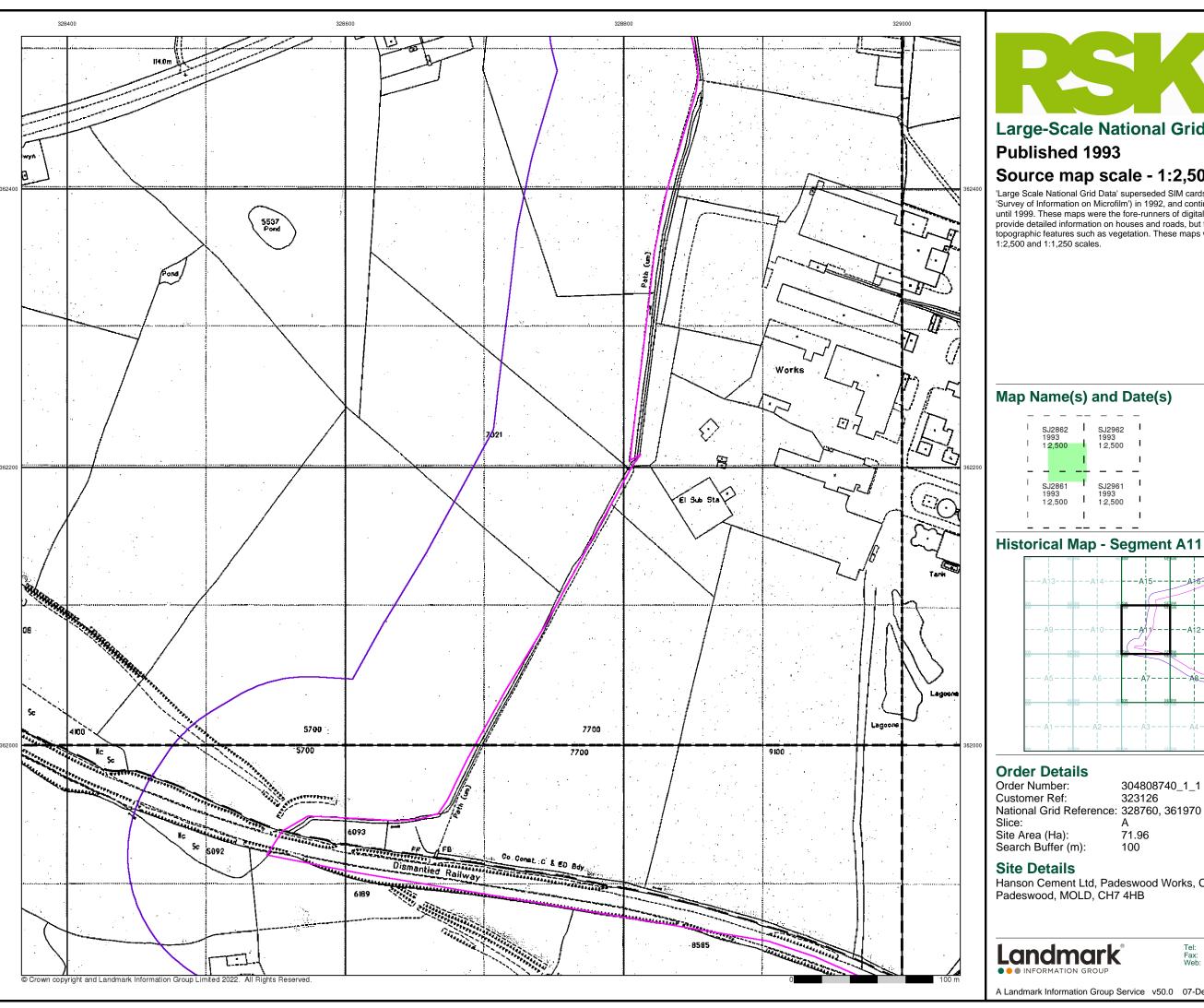
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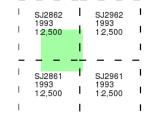


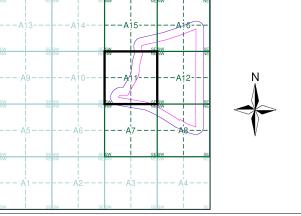


# **Large-Scale National Grid Data**

# 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.





304808740_1_1 323126 National Grid Reference: 328760, 361970

71.96 100

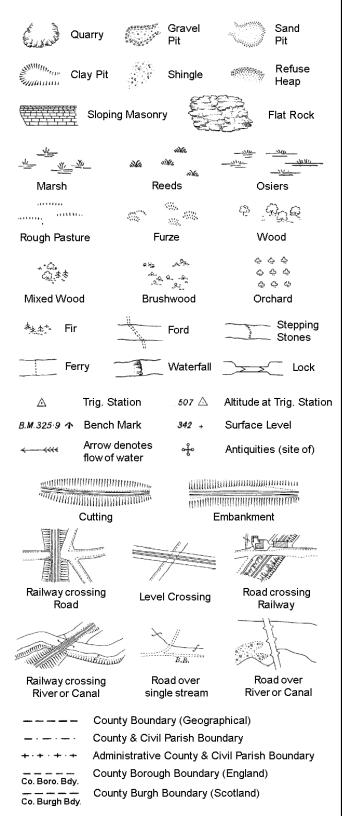
Hanson Cement Ltd, Padeswood Works, Chester Road,

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# **Historical Mapping Legends**

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



B.R.

E.P

F.B.

M.S

Bridle Road

Foot Bridge

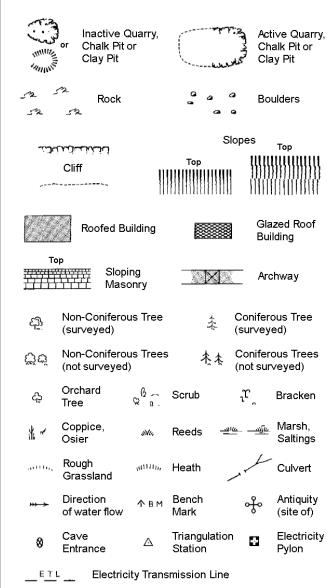
Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Guide Post or Board

# Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



O PA	mereing cha	nges	
вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	тсв	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

County Boundary (Geographical)

Admin. County or County Bor. Boundary

Symbol marking point where boundary

Fn/DFn

GVC

Fountain / Drinking Ftn.

Gas Valve Compound

Mile Post or Mile Stone

Gas Governer

**Guide Post** 

Manhole

Tank or Track

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

Wks

County & Civil Parish Boundary

Civil Parish Boundary

London Borough Boundary

L B Bdy

34,0

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

Trough

Well

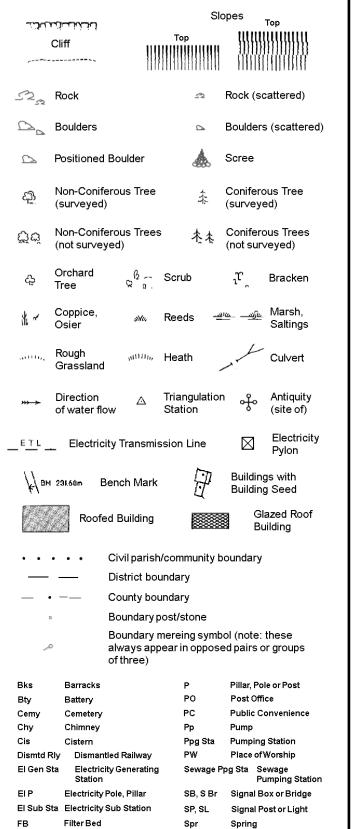
S.P

T.C.B

Sl.

 $T_T$ 

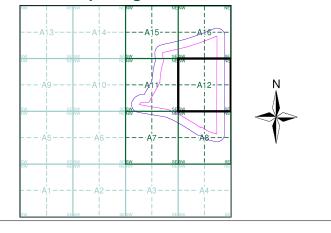
# 1:1,250



# **Historical Mapping & Photography included:**

Scale	Date	Pg
1:2,500	1872	2
1:2,500	1899	3
1:2,500	1912	4
1:2,500	1961	5
1:2,500	1977 - 1979	6
1:2,500	1981 - 1989	7
1:2,500	1988	8
1:2,500	1991	9
1:2,500	1993	10
	1:2,500 1:2,500 1:2,500 1:2,500 1:2,500 1:2,500 1:2,500 1:2,500	1:2,500     1872       1:2,500     1899       1:2,500     1912       1:2,500     1961       1:2,500     1977 - 1979       1:2,500     1981 - 1989       1:2,500     1988       1:2,500     1991

# **Historical Map - Segment A12**



#### **Order Details**

Order Number: 304808740_1_1 323126 Customer Ref: National Grid Reference: 328760, 361970 Slice: 71.96 Site Area (Ha):

Search Buffer (m):

100

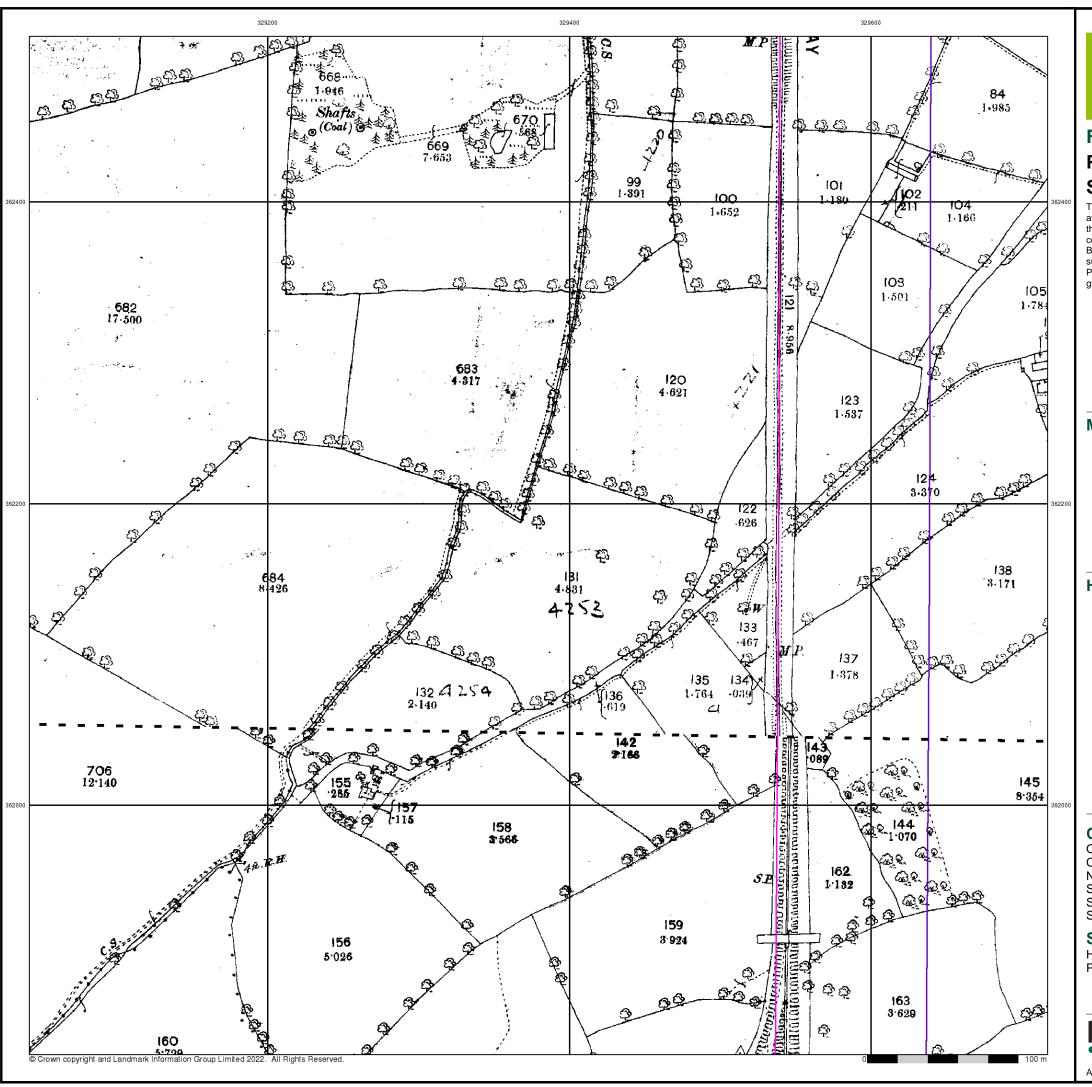
#### Site Details

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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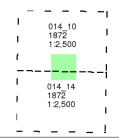
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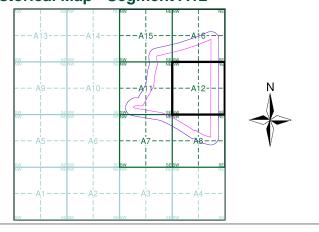
# **Published 1872** Source map scale - 1:2,500

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**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): Search Buffer (m): 71.96 100

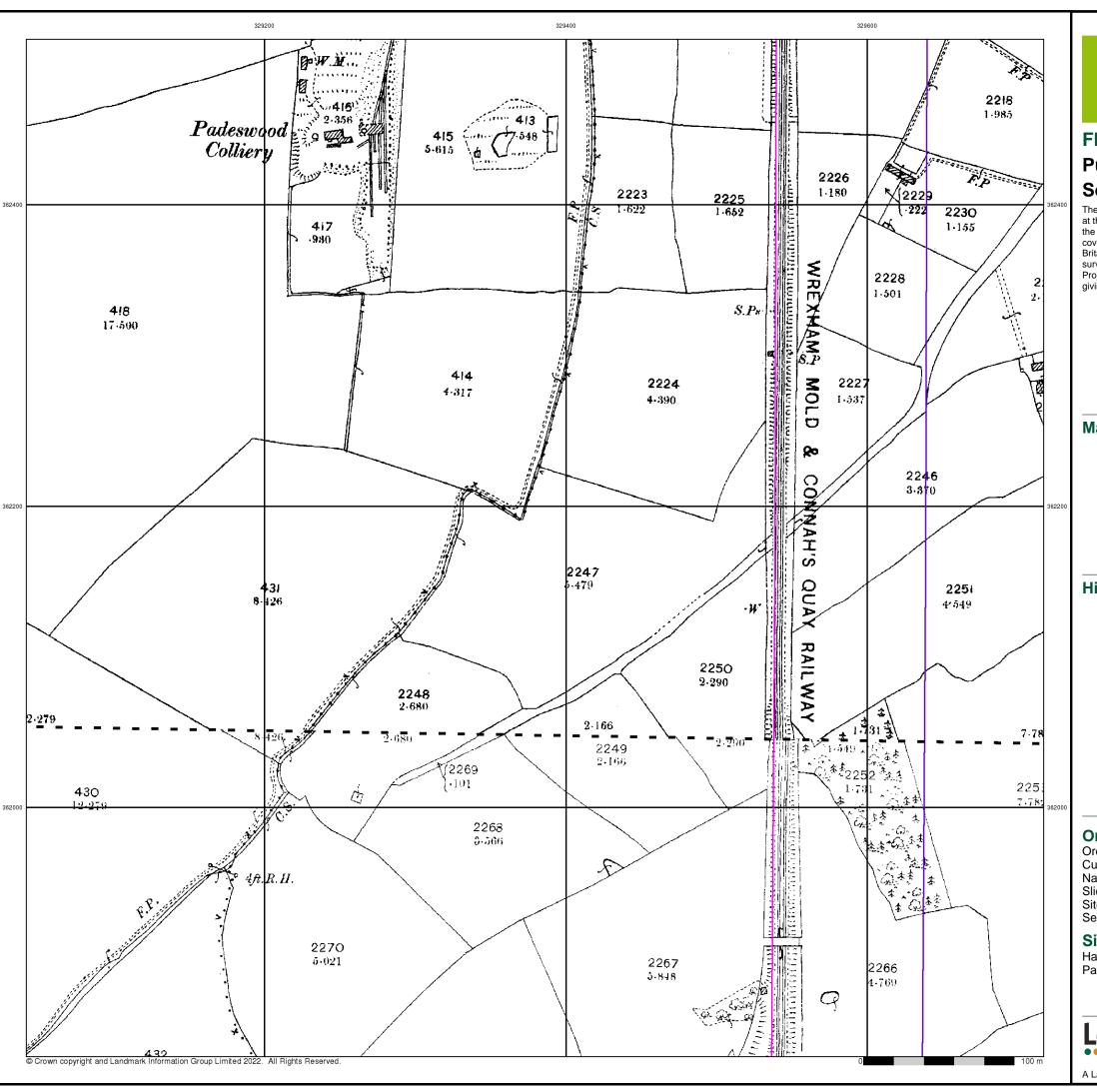
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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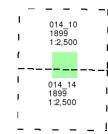
# RSK

# **Flintshire**

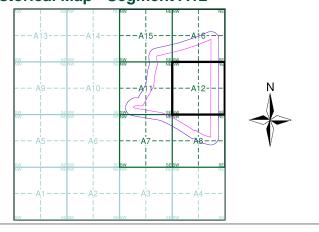
# Published 1899 Source map scale - 1:2,500

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 A12**



# **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

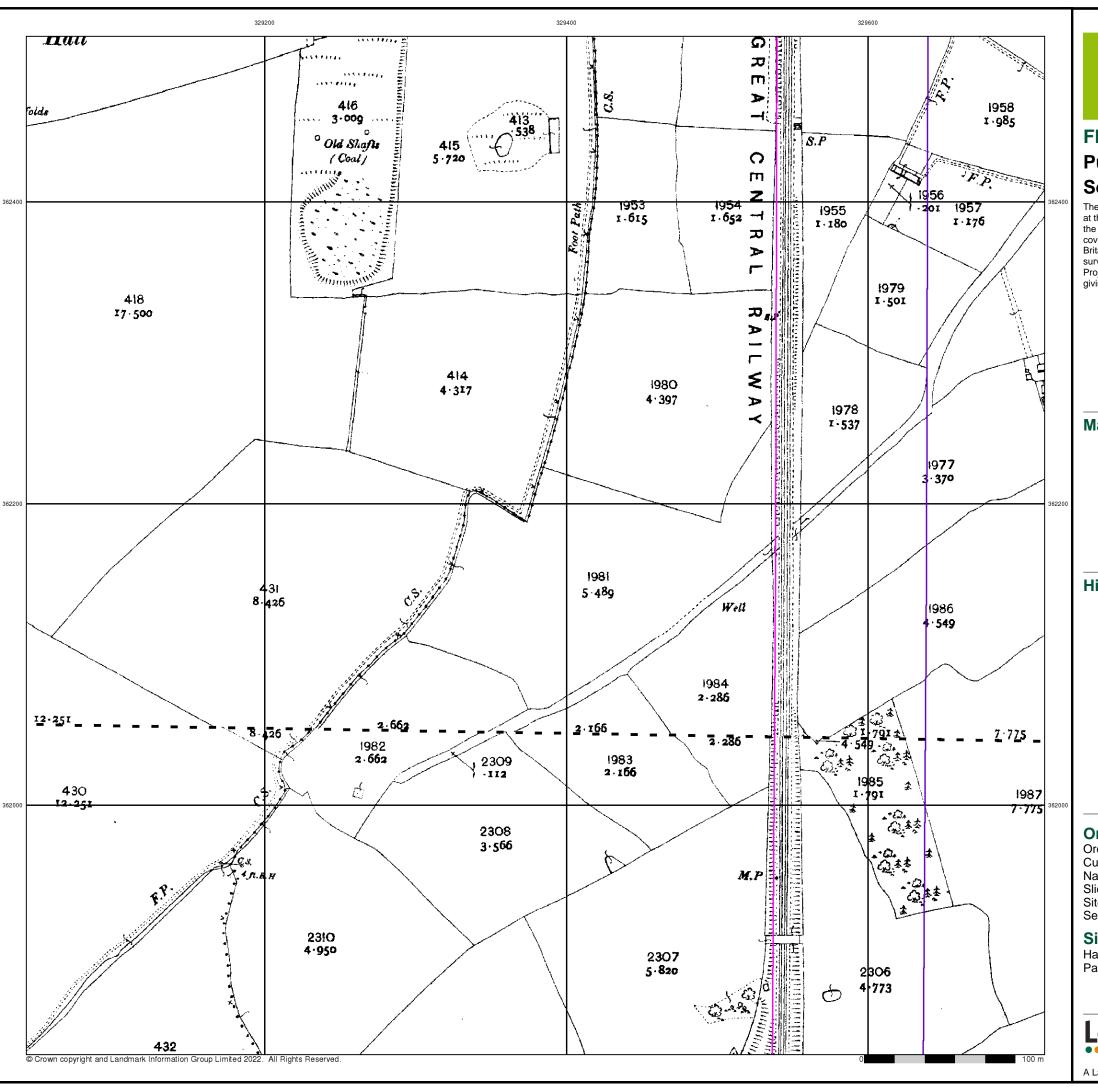
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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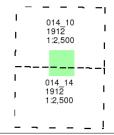
A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 10



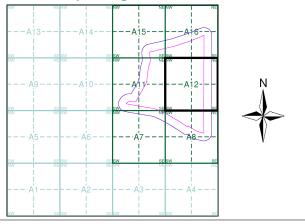
# **Published 1912** Source map scale - 1:2,500

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**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970 Α

Slice:

Site Area (Ha): Search Buffer (m): 71.96 100

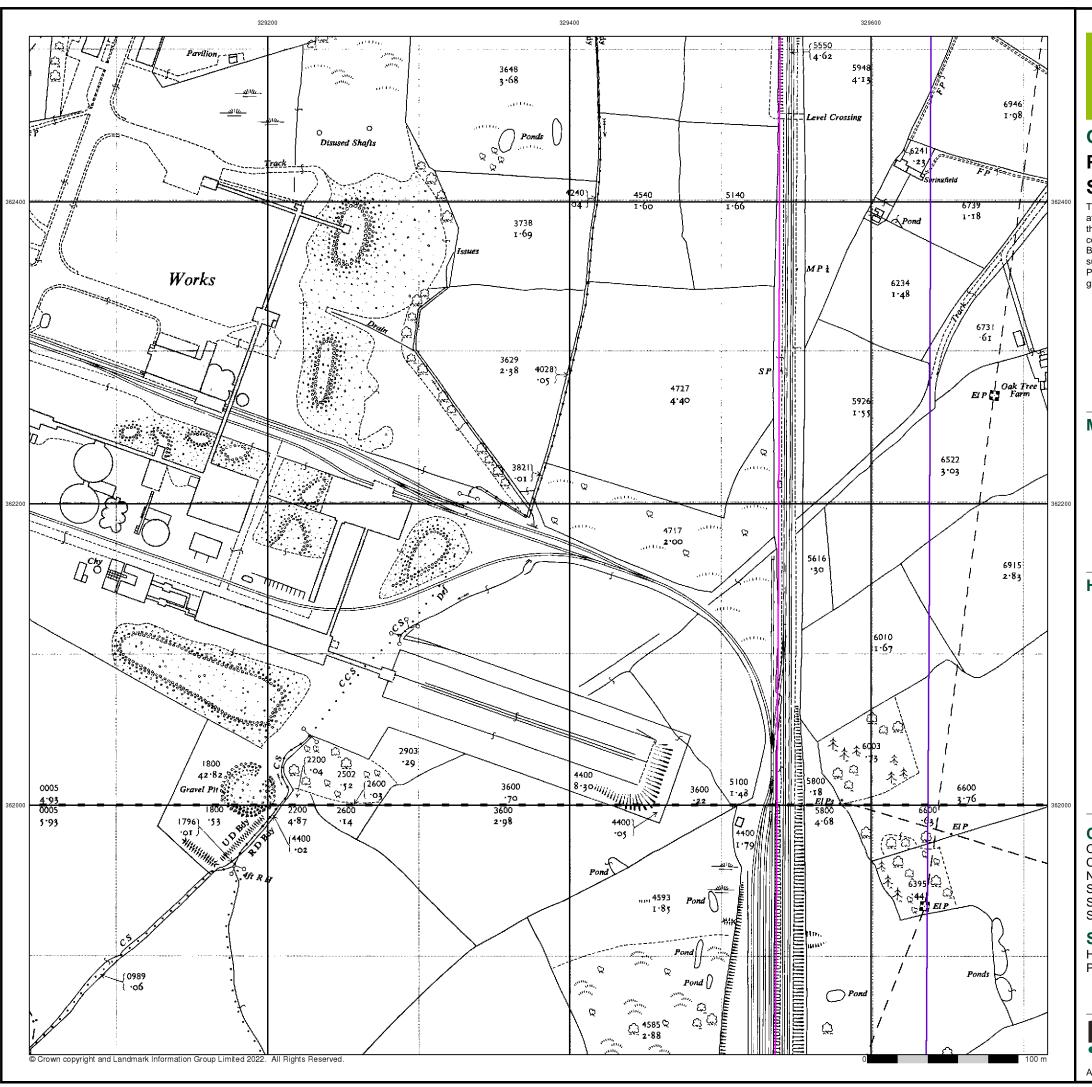
### **Site Details**

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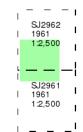
# Ordnance Survey Plan

# Published 1961

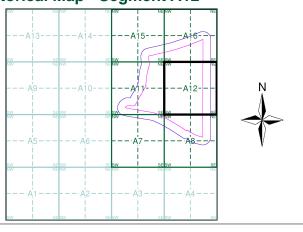
# Source map scale - 1:2,500

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)



# **Historical Map - Segment A12**



### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

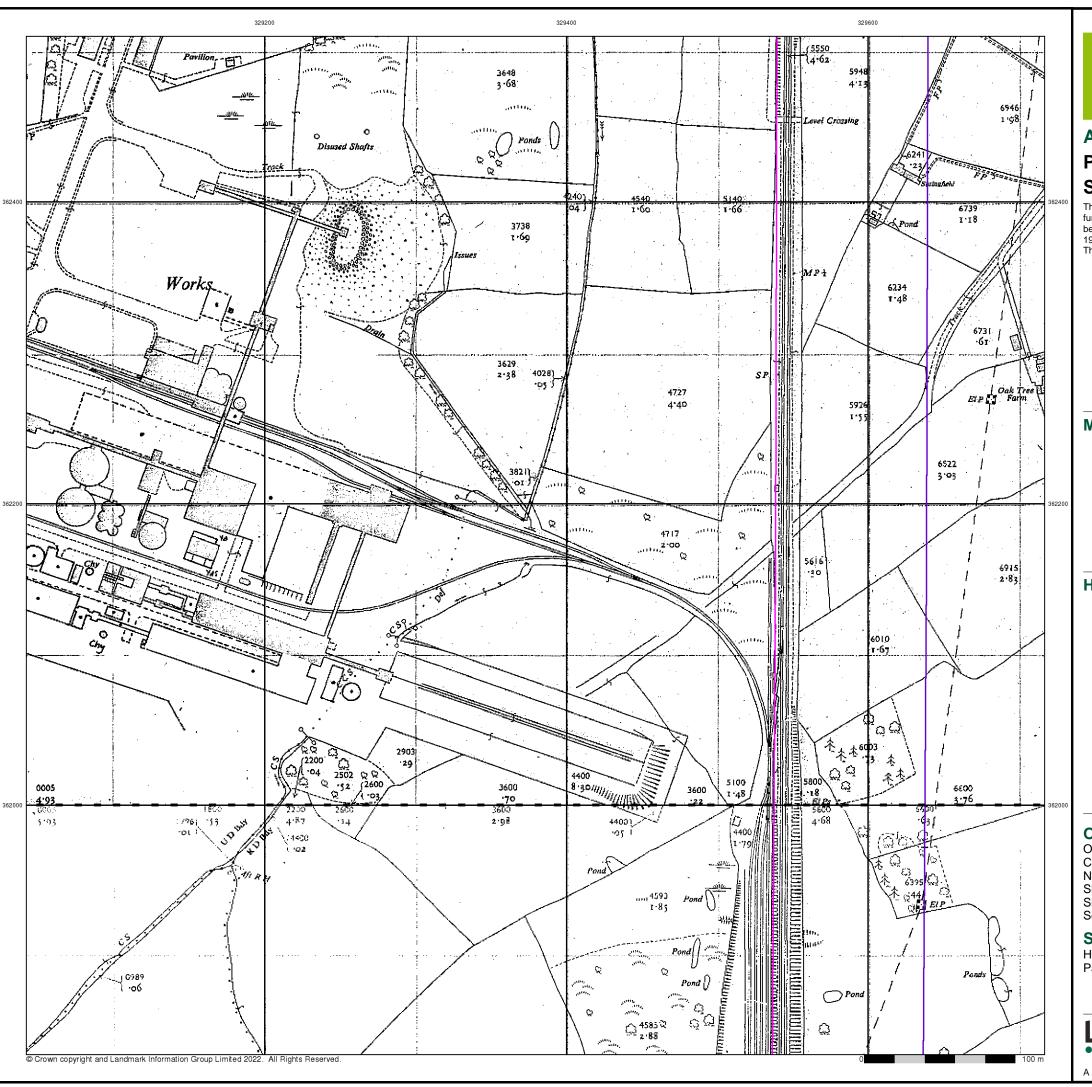
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

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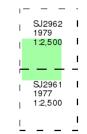
# RSK

# **Additional SIMs**

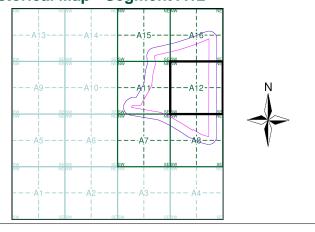
# **Published 1977 - 1979 Source map scale - 1:2,500**

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 A12**



## **Order Details**

 Order Number:
 304808740_1_1

 Customer Ref:
 323126

 National Grid Reference:
 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

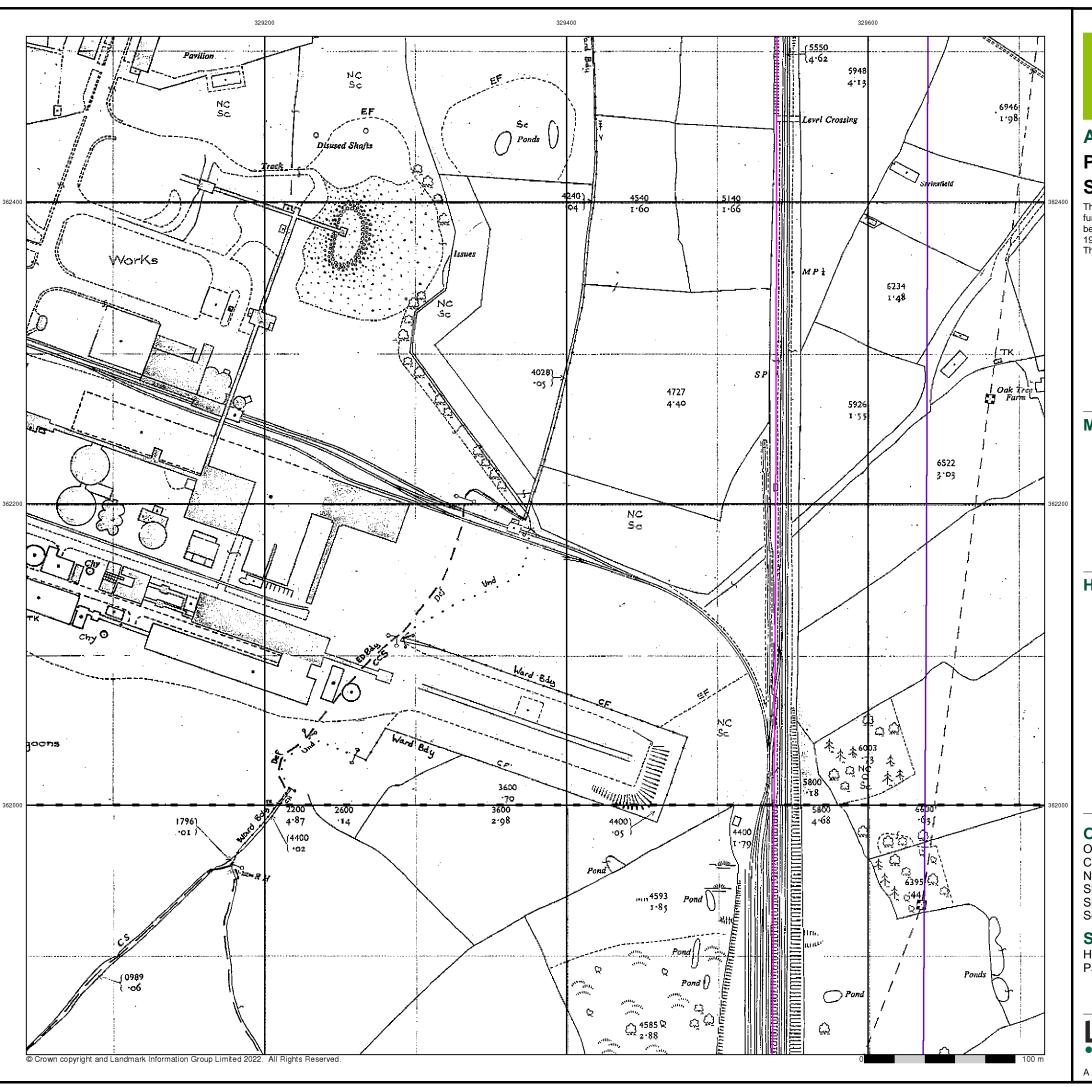
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

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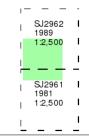


# **Additional SIMs**

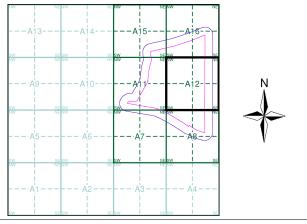
# **Published 1981 - 1989** Source map scale - 1:2,500

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 A12**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): Search Buffer (m): 71.96 100

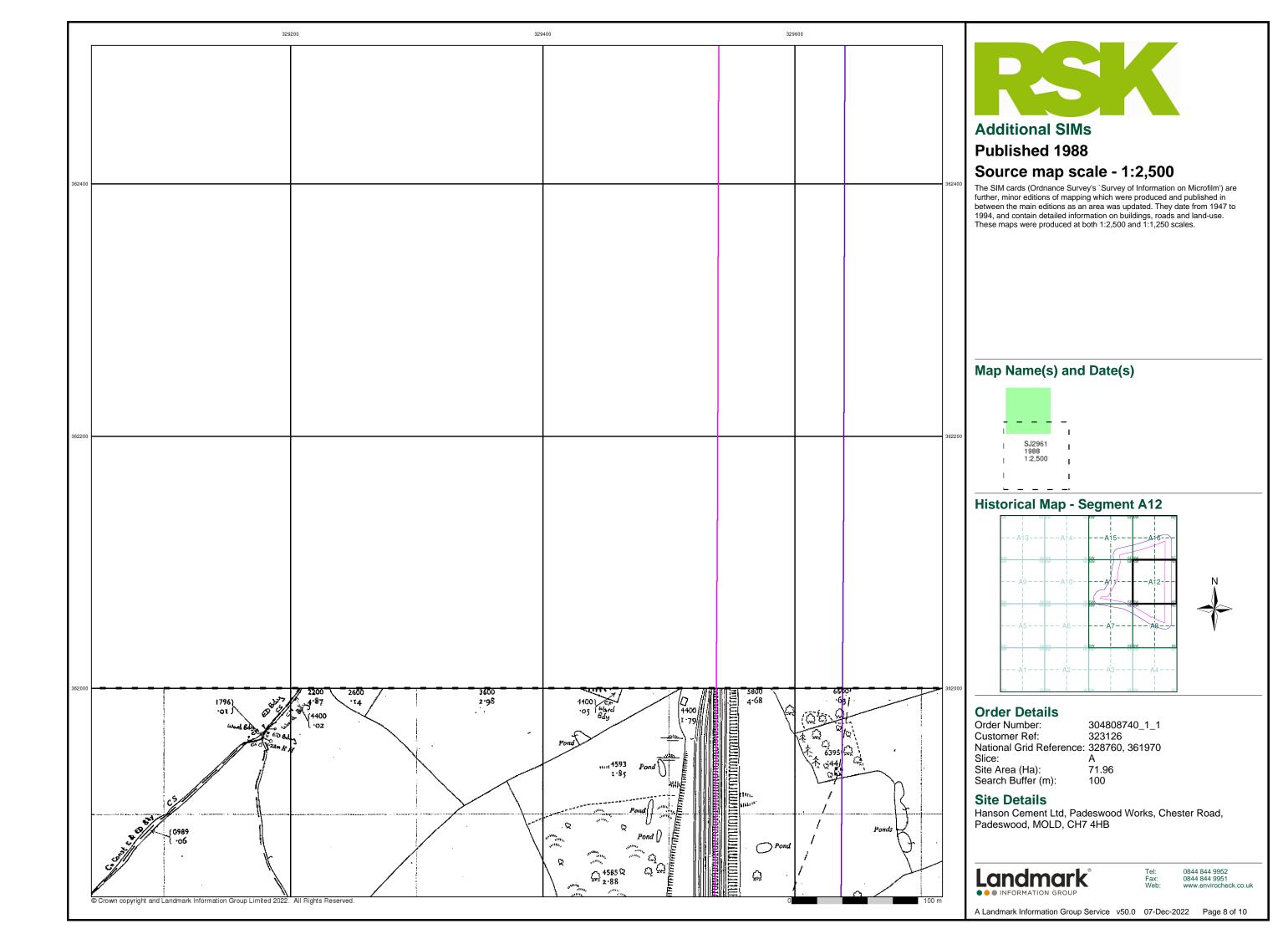
### **Site Details**

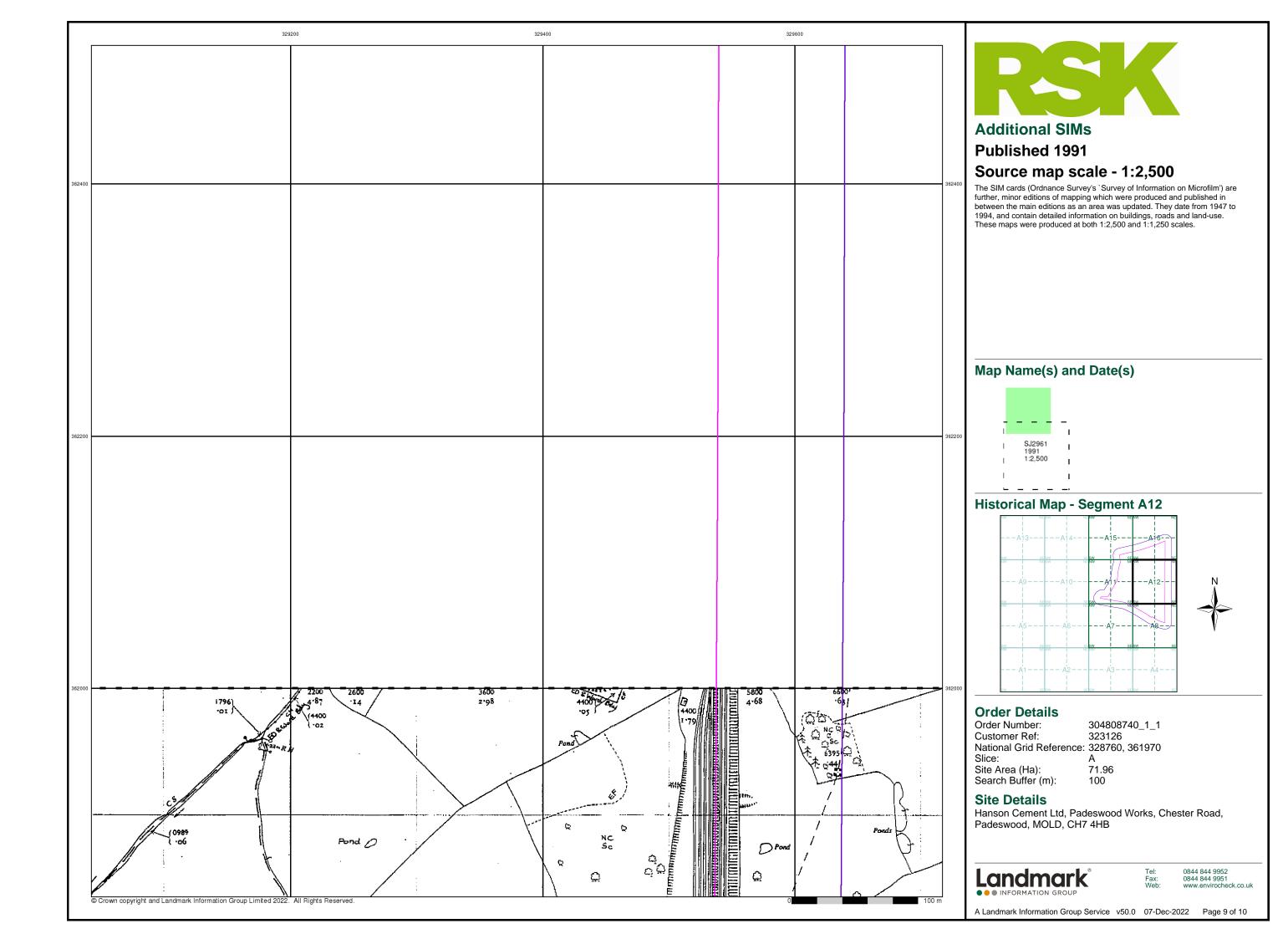
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

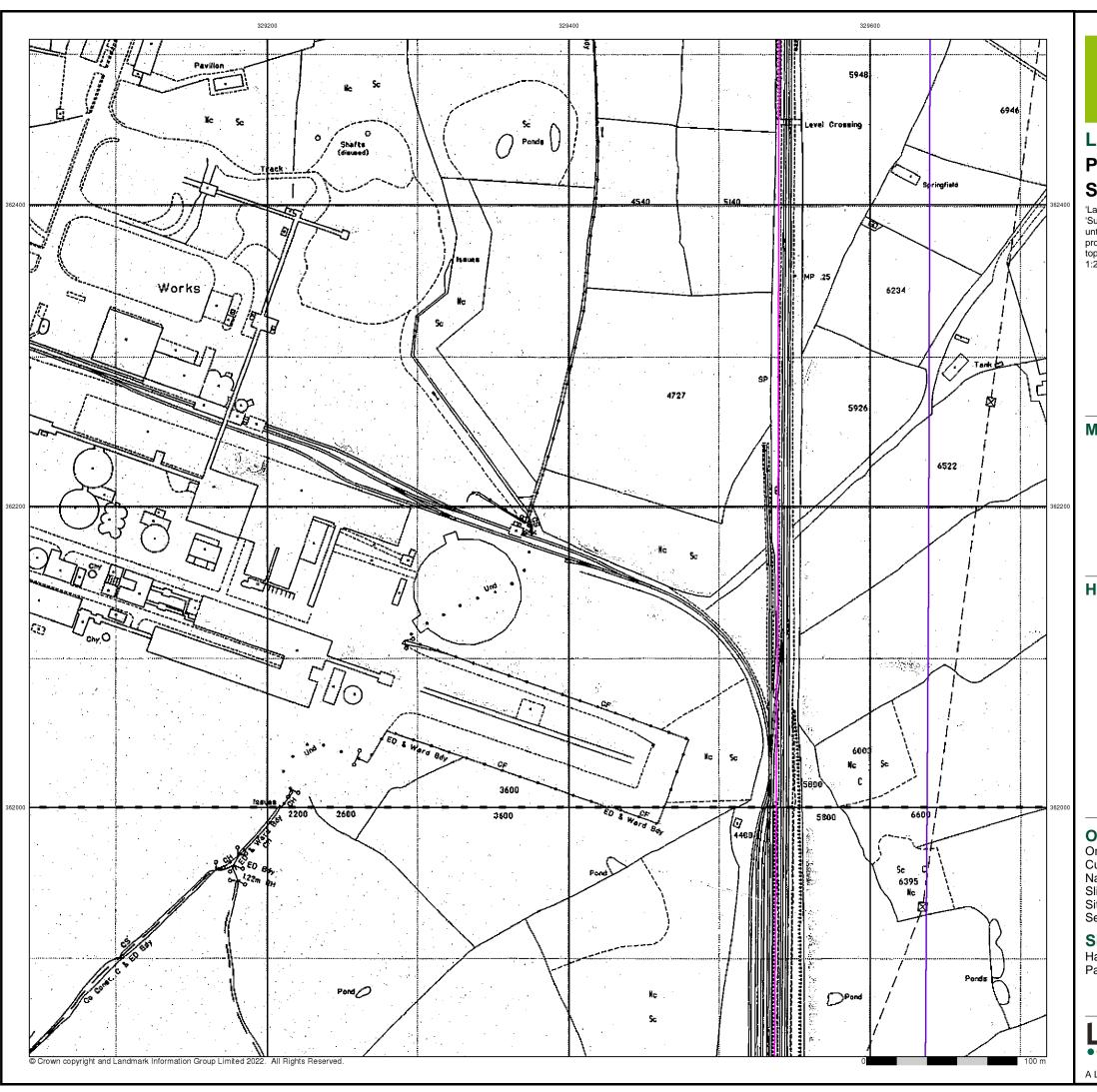
Landmark

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# RSK

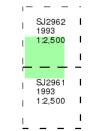
# **Large-Scale National Grid Data**

# Published 1993

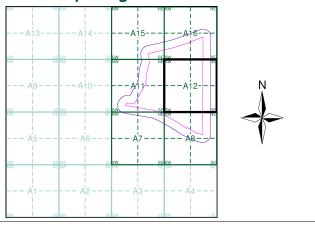
# Source map scale - 1:2,500

'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**



## **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 100

### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

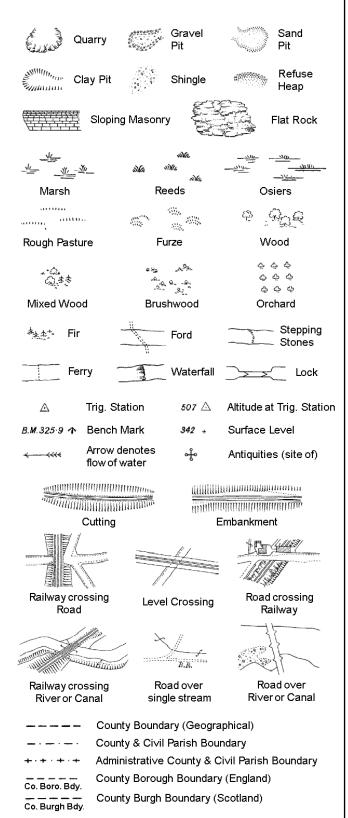
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# **Historical Mapping Legends**

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



B.R.

EP

F.B.

M.S

Bridle Road

Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

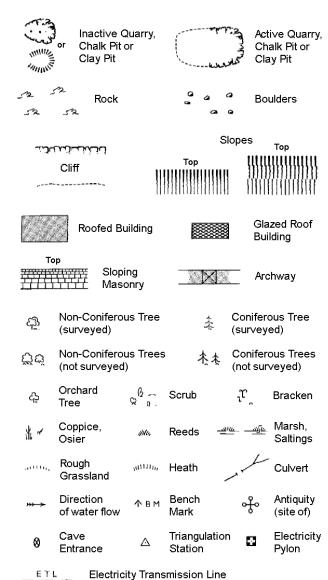
Trough Well

S.P

Sl.

Tr:

# Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



		County Boundary	(Geographical)	
· — ·		County & Civil Par	ish Boundary	
		Civil Parish Bound	lary	
· -+- · -+- · L B Bdy 		Admin. County or County Bor. Boundary		
		London Borough Boundary		
	•	Symbol marking po mereing changes	oint where boundary	
вн	Beer House	Р	Pillar, Pole or Post	

вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

# 1:1,250

			Sle	opes .	Гор
ر نظری	لكناب		Тор	1111111	11111111111
ļ	Cliff	1111	101110111011	11111111	11111111111
~				111111	1411111111
500	Rock		7,3	Rock (sc	attered)
$\triangle$	Boulders		Δ	Boulders	(scattered)
$\triangle$	Positioned	Boulder		Scree	
දවු	Non-Conif (surveyed	erous Tree )	丰	Conifero (surveye	
ర్లోల్	Non-Conif (not surve	erous Trees yed)	<b>木</b> 木	Conifero (not surv	us Trees eyed)
දා	Orchard Tree	Q a.	Scrub	Tr .	Bracken
* ~	Coppice, Osier	sNa,	Reeds 🛥	110c <u>– 11</u> 0c	Marsh, Saltings
astiliz,	Rough Grassland	mun,	Heath	1	Culvert
<del>*** &gt;</del>	Direction of water flo	ow $ riangle$	Triangulation Station	J &	Antiquity (site of)
E_TL	_ Electric	ity Transmis	sion Line	$\boxtimes$	Electricity Pylon
\ <del>\</del>	231.60m E	Bench Mark		Building Building	
	Roofe	ed Building		25	azed Roof ilding
		Civil parieb	/community b	oundary	
		•	<del>-</del>	. Januar y	
	<del></del>	District bou	-		
_ ·		County bou	indary		
٥		Boundary p	ost/stone		
٥			nereing symb ear in oppose		
Bks	Barracks		Р	Pillar, Pol	e or Post
Bty	Battery		PO	Post Offic	
Cemy	Cemetery		PC	Public Co	nvenience
Chy	Chimney		Pp	Pump	
Cis	Cistern		Ppg Sta	Pumping	Station
Dismtd R	Rly Disman	tled Railway	PW	Place of V	Vorship
El Gen S	ta Electric Station	ity Generating	Sewage F		wage mping Station
EIP		Pole, Pillar	SB, S Br		ox or Bridge
	ta Electricity		SP, SL	_	est or Light
FB	Filter Bed		Spr	Spring	or or Eight
	Dou		Op.	- h	

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

**Guide Post** 

Manhole

GVC

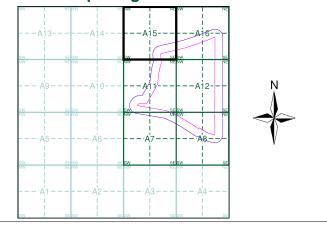
Gas Valve Compound

Mile Post or Mile Stone

# **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1872	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961 - 1965	5
Ordnance Survey Plan	1:2,500	1969	6
Ordnance Survey Plan	1:2,500	1975	7
Additional SIMs	1:2,500	1977 - 1989	8
Additional SIMs	1:2,500	1989	9
Additional SIMs	1:2,500	1989	10
Ordnance Survey Plan	1:2,500	1991	11
Large-Scale National Grid Data	1:2,500	1993	12

# **Historical Map - Segment A15**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970 Slice: Site Area (Ha): 71.96

# Search Buffer (m): **Site Details**

Tank or Track

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

Wks

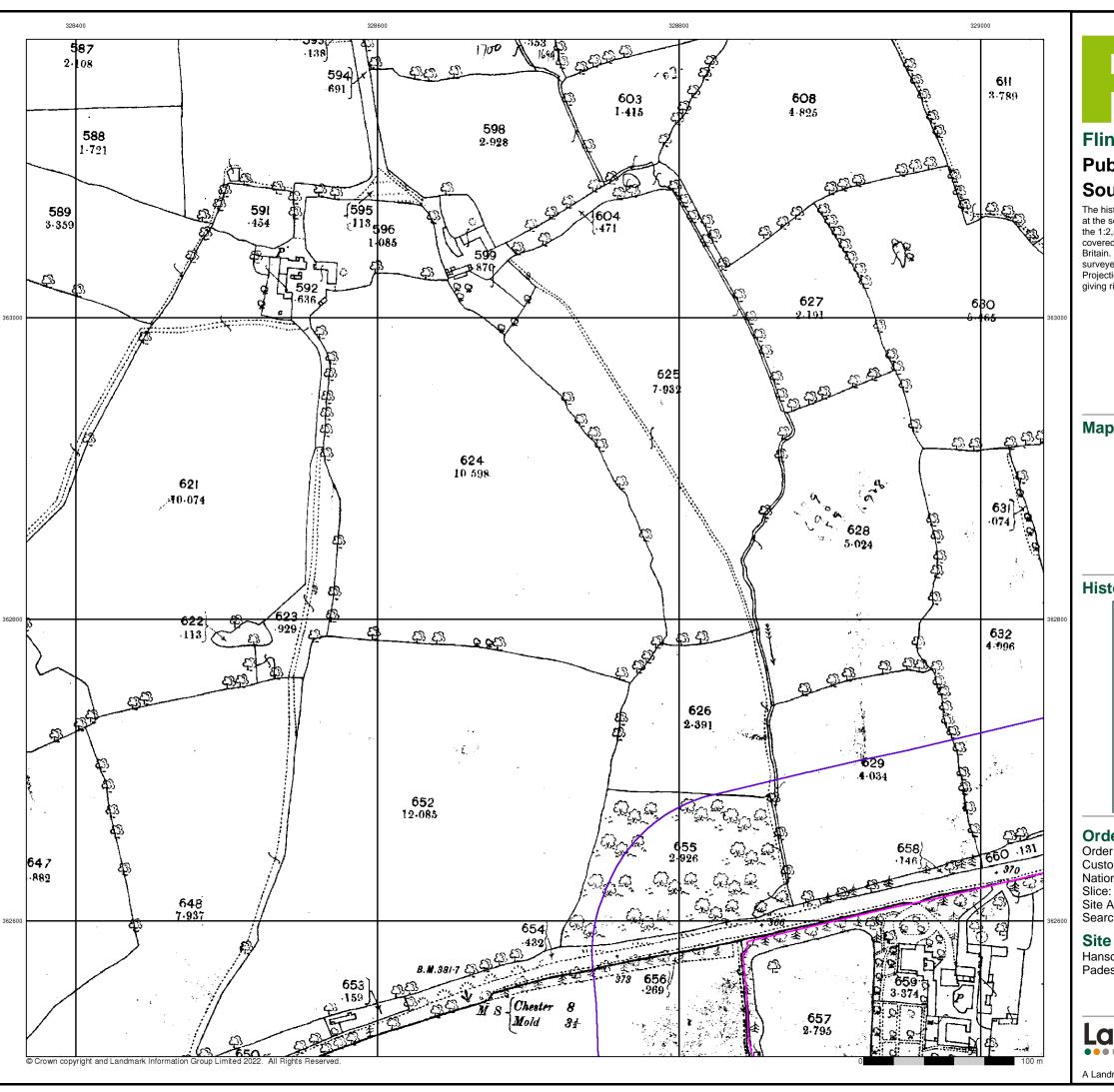
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

100



0844 844 9952 0844 844 9951

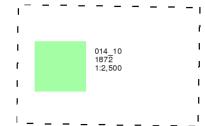
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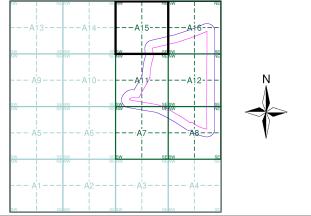
# **Published 1872** Source map scale - 1:2,500

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 A15**



# **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

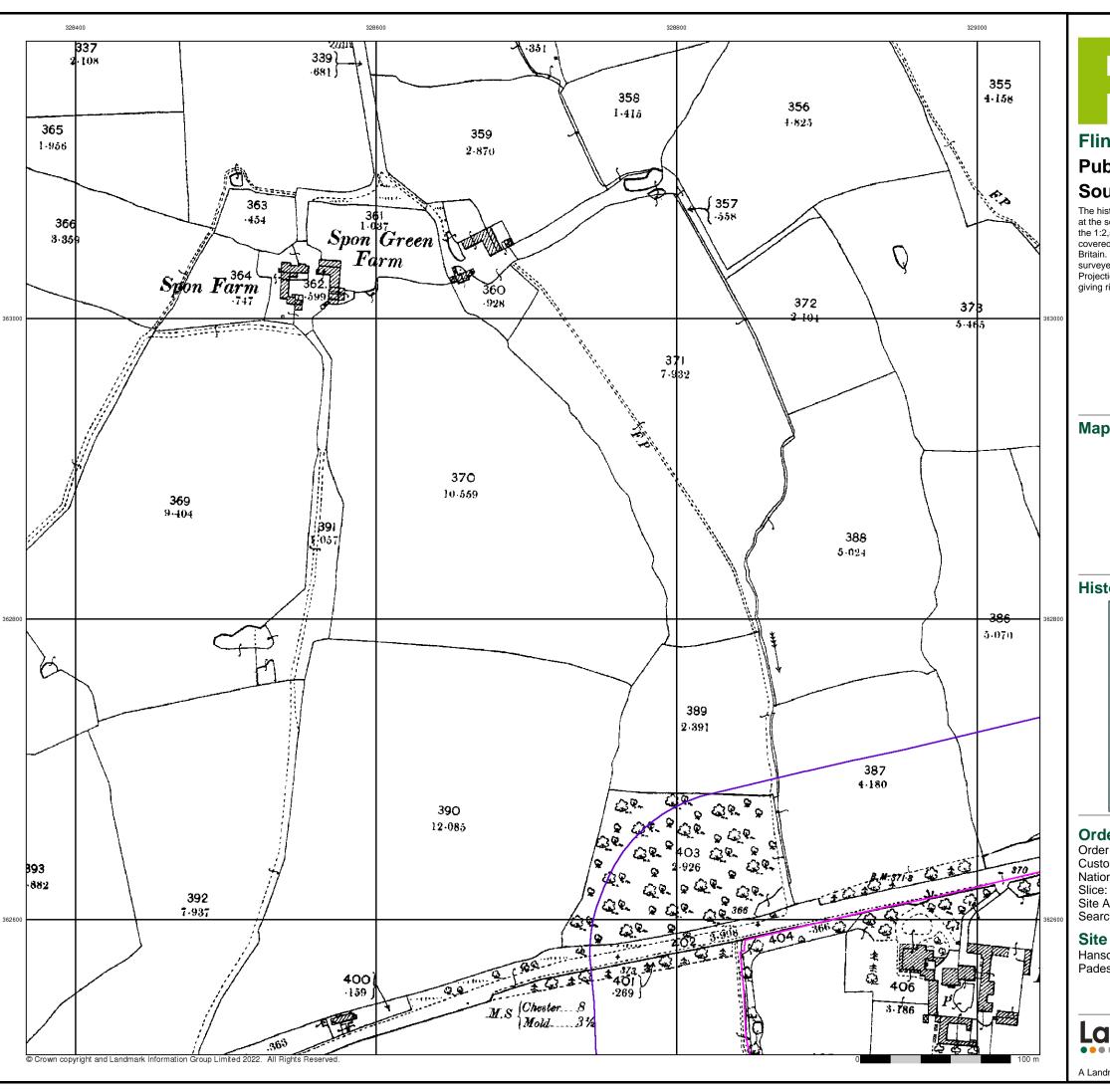
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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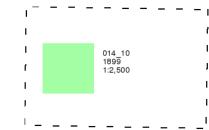
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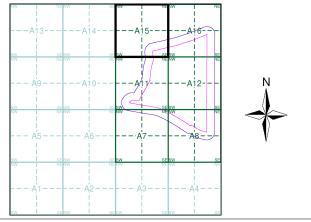
# **Published 1899** Source map scale - 1:2,500

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 A15**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

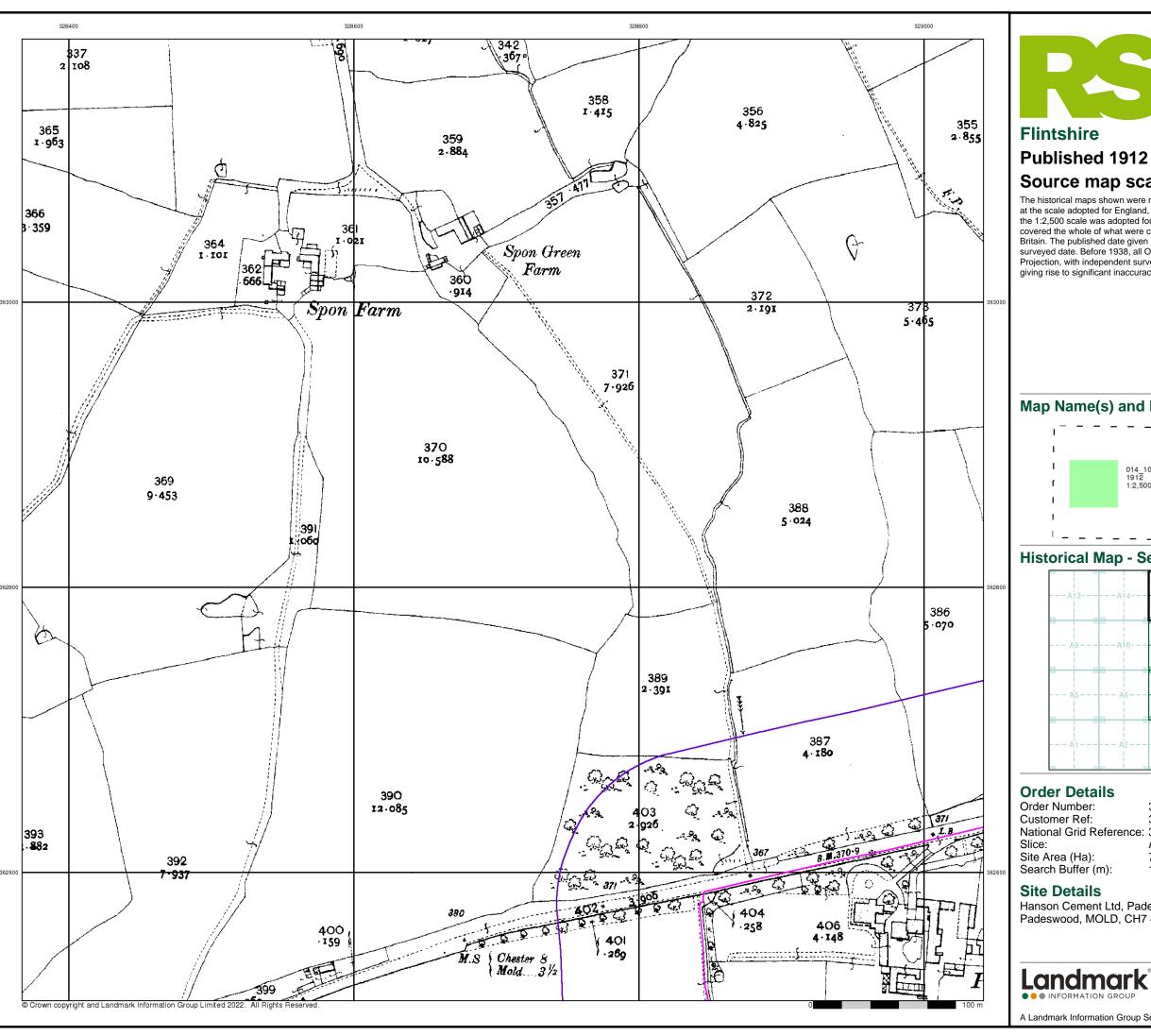
### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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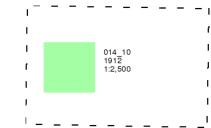
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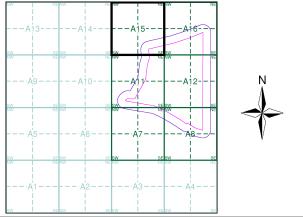
# Source map scale - 1:2,500

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 A15**



304808740_1_1 323126 National Grid Reference: 328760, 361970

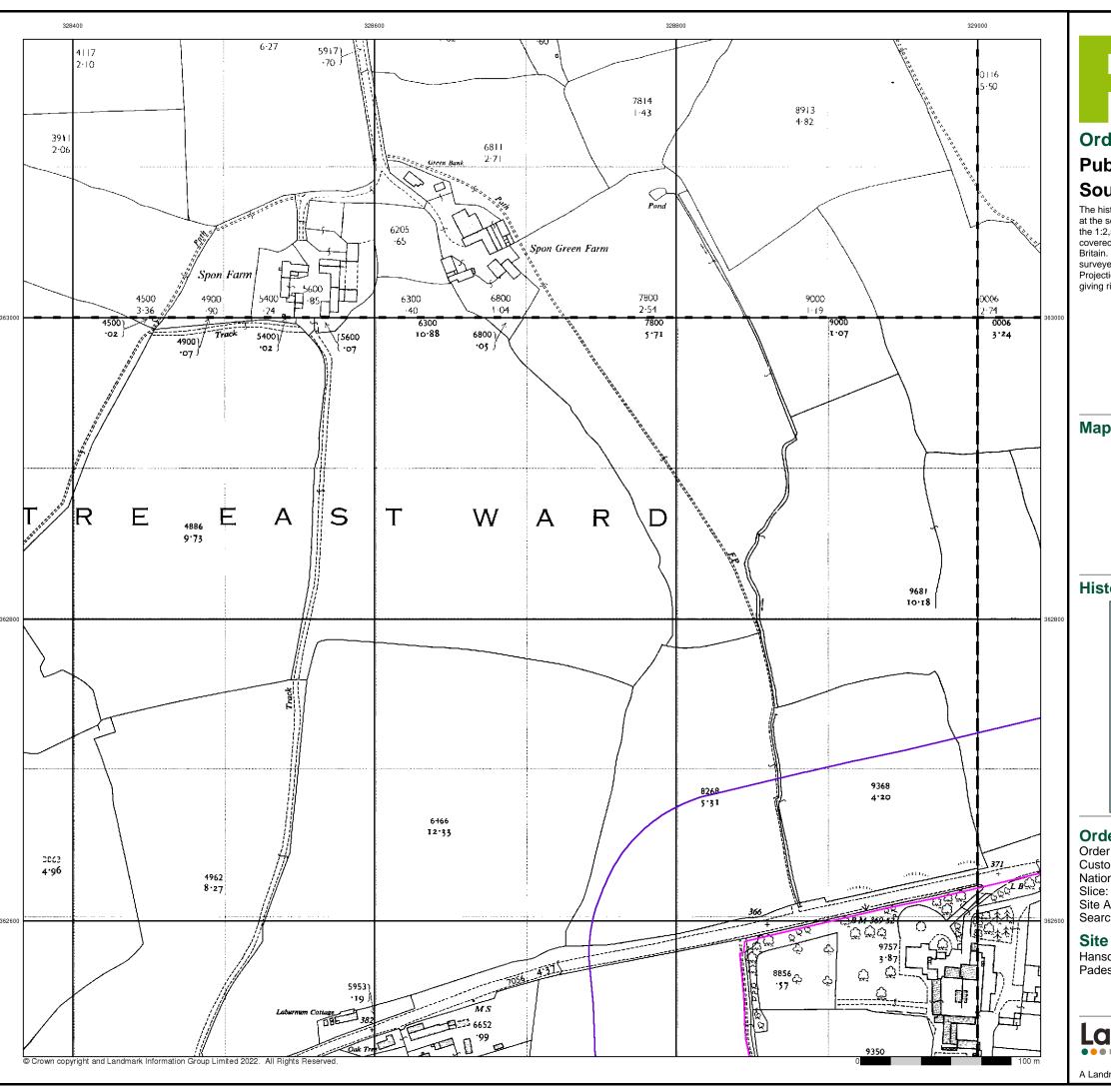
71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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# **Ordnance Survey Plan**

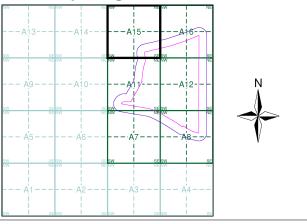
# **Published 1961 - 1965** Source map scale - 1:2,500

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)

	SJ2863 1965 1:2,500	SJ2963 I 1965 1:2,500	
		<b>-</b>	
1	SJ2862 1961	SJ2962 1961	
1	1:2,500	1:2,500	
- 1		1	

# **Historical Map - Segment A15**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

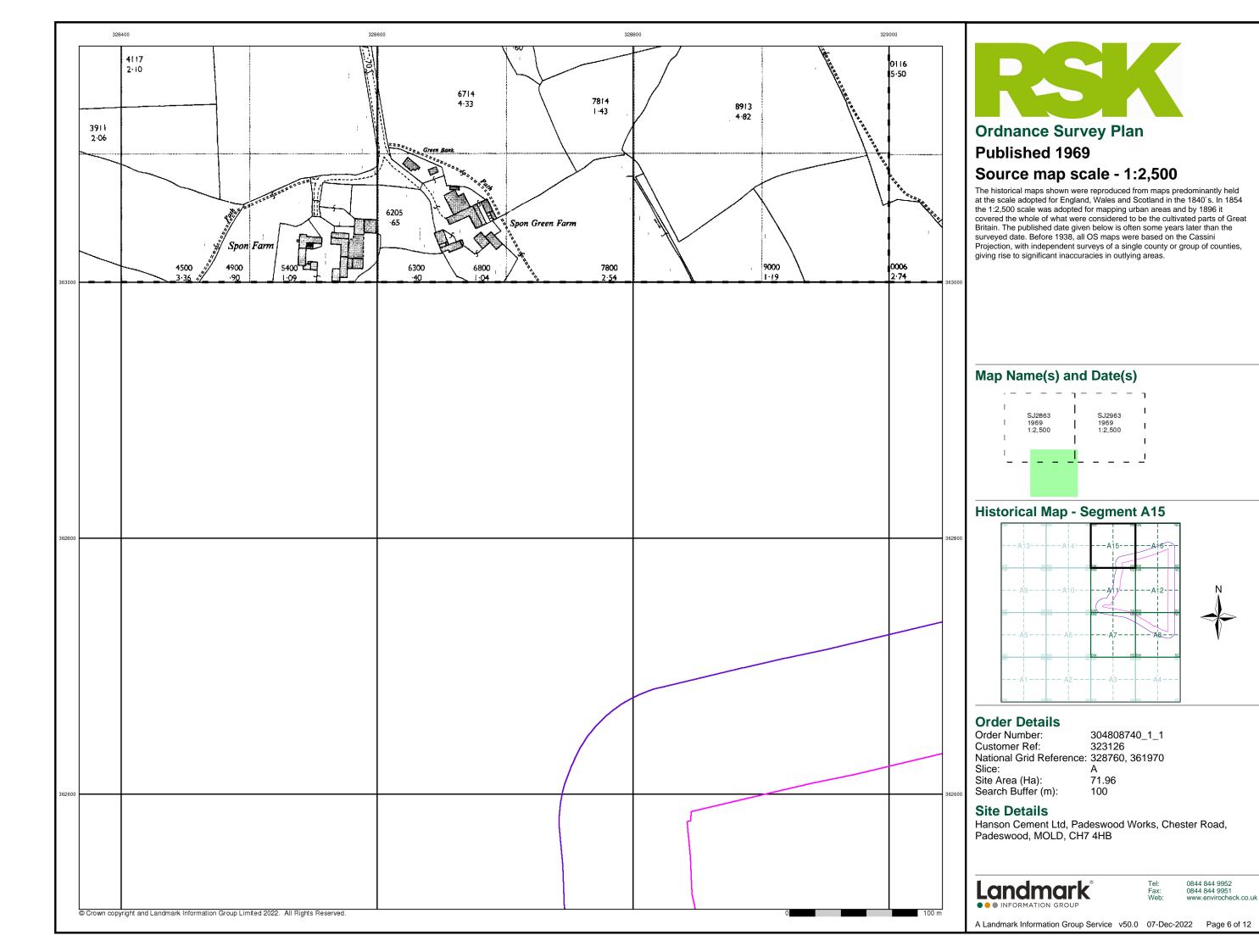
### **Site Details**

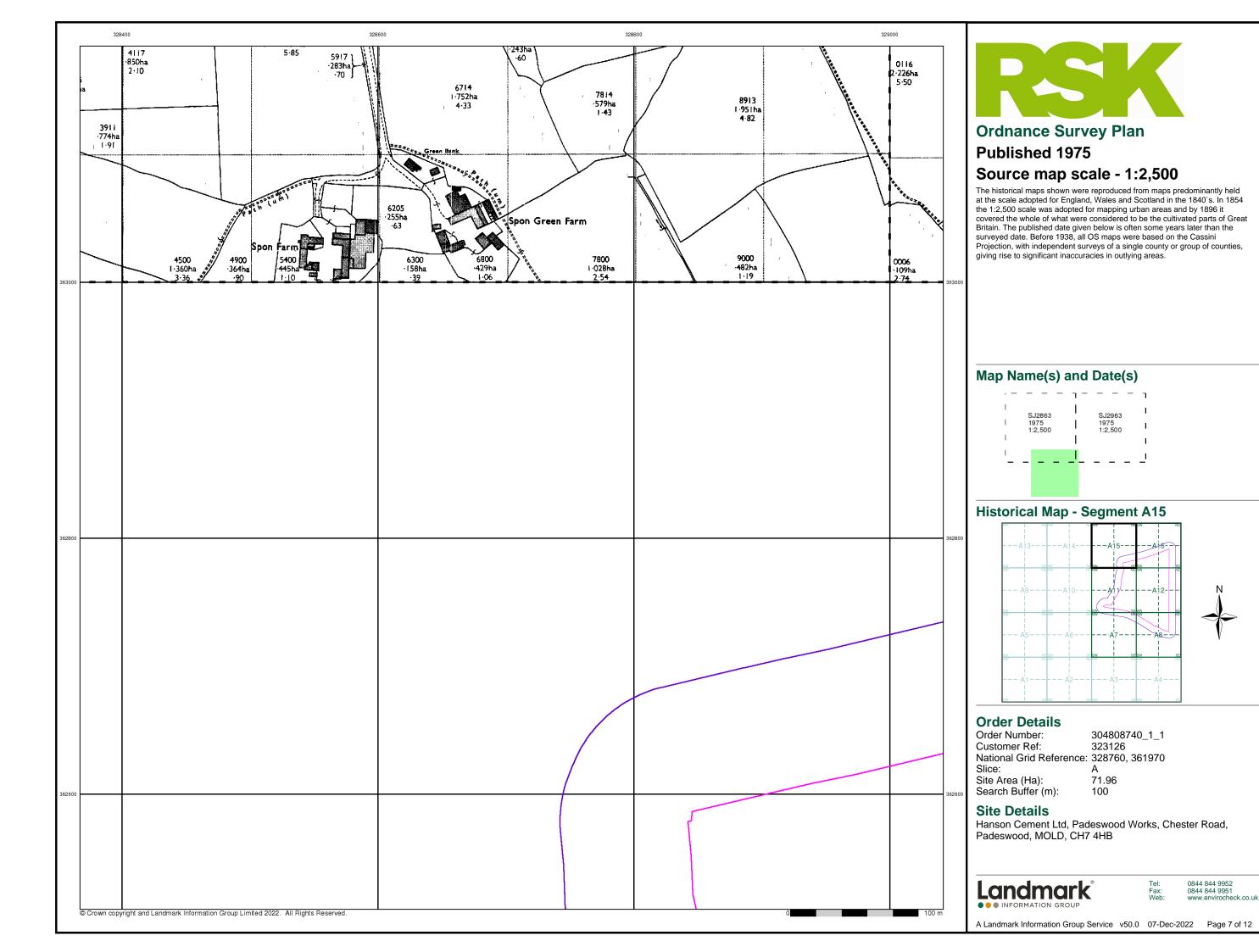
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

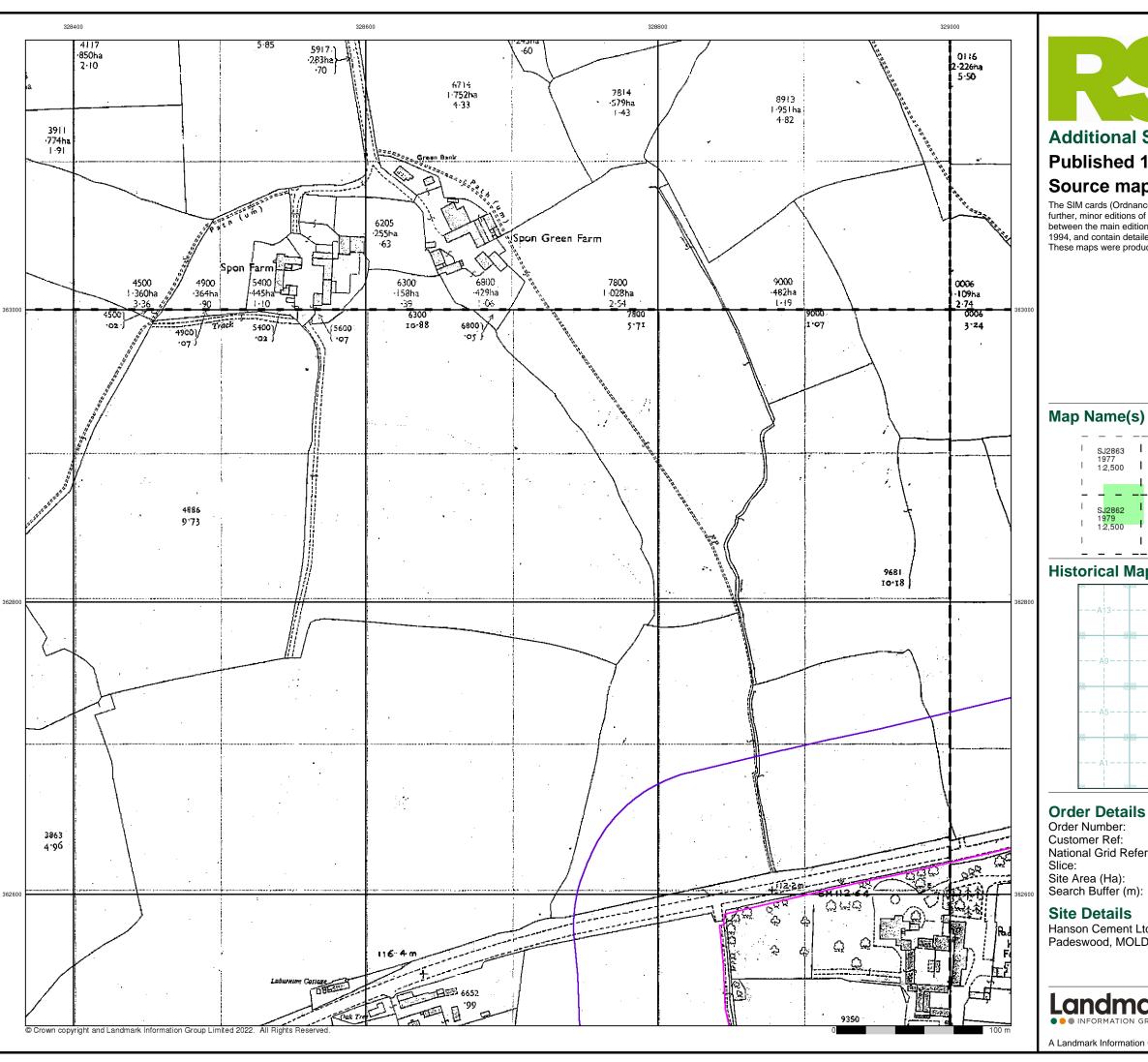


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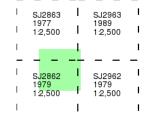


# **Additional SIMs**

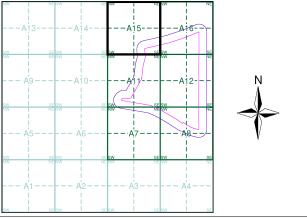
# **Published 1977 - 1989** Source map scale - 1:2,500

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 A15**



304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

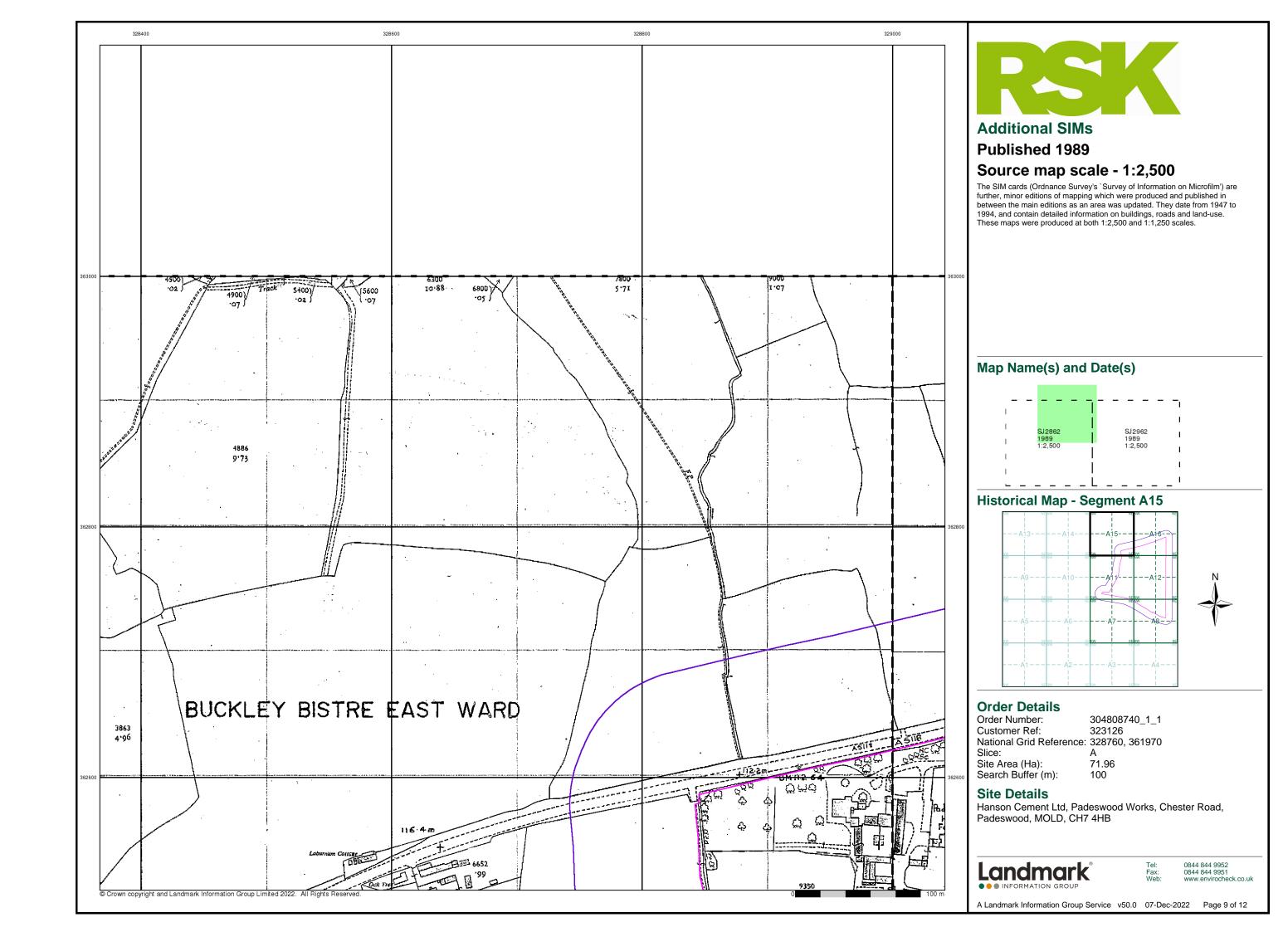
Site Area (Ha): Search Buffer (m): 71.96 100

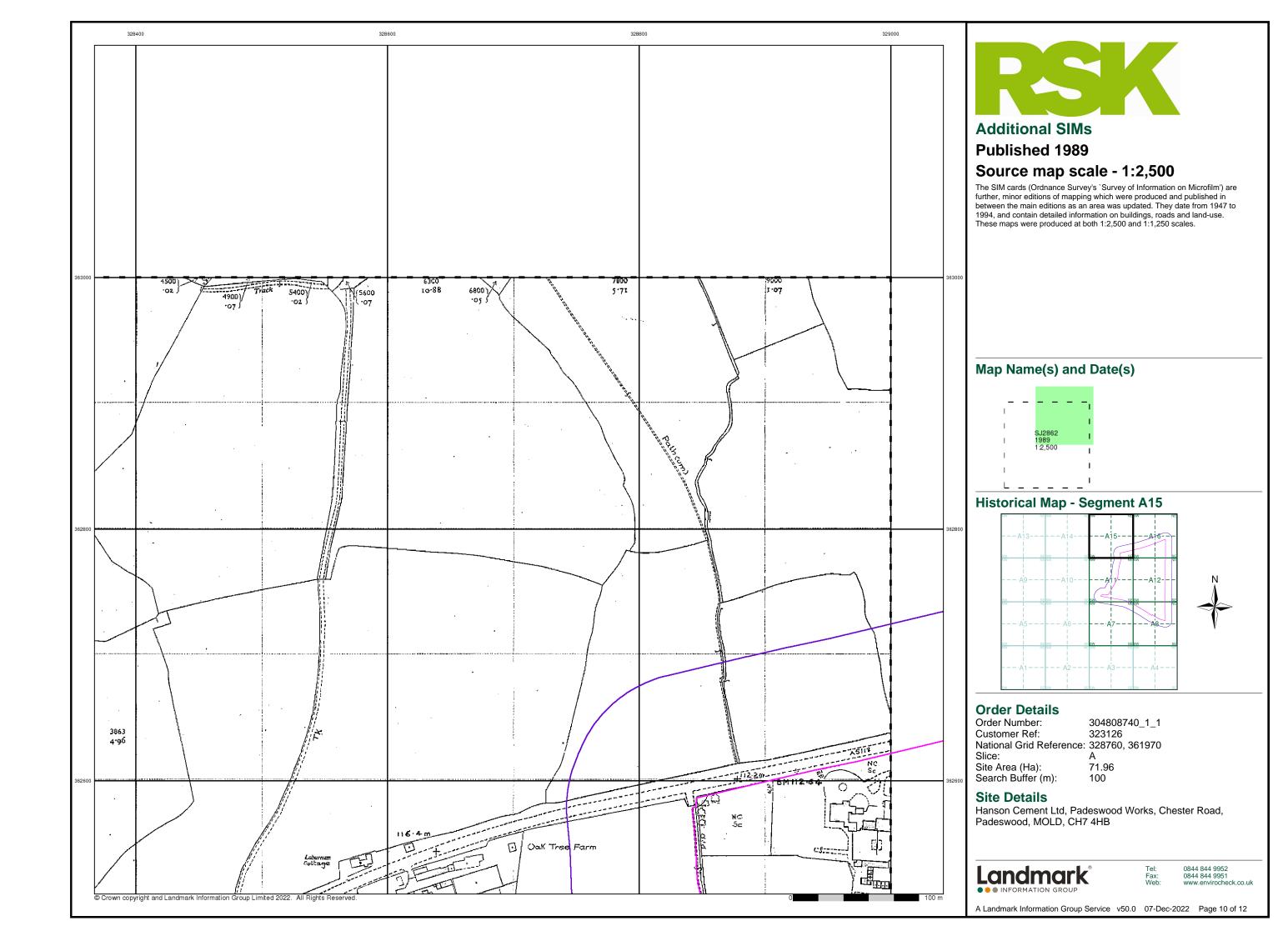
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

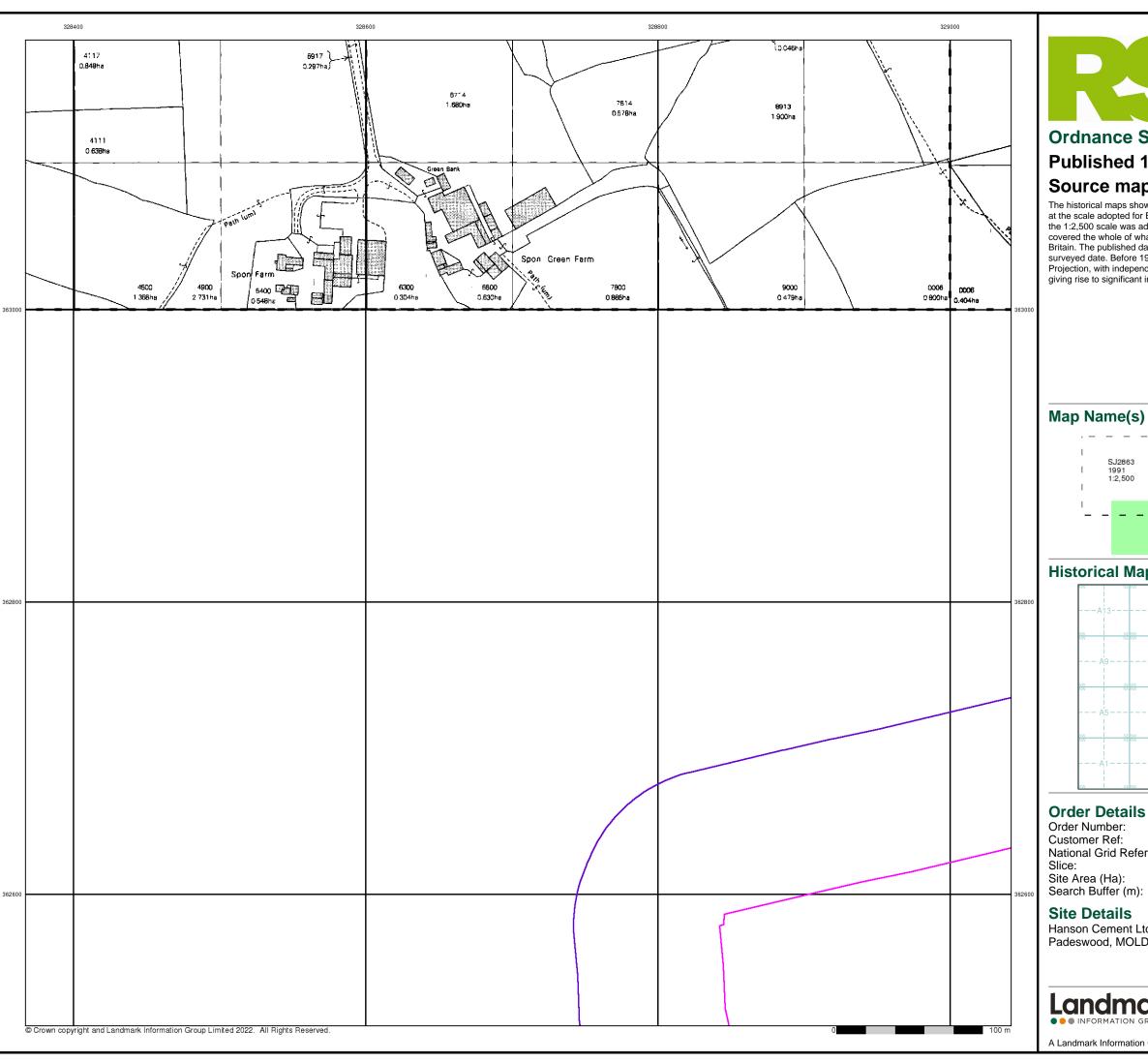
Landmark

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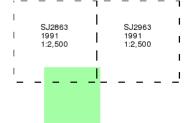
# **Ordnance Survey Plan**

# **Published 1991**

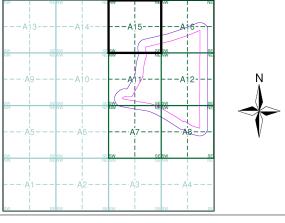
# Source map scale - 1:2,500

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 A15**



304808740_1_1 323126 National Grid Reference: 328760, 361970

71.96 100

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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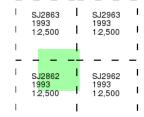
# **Large-Scale National Grid Data**

# Published 1993

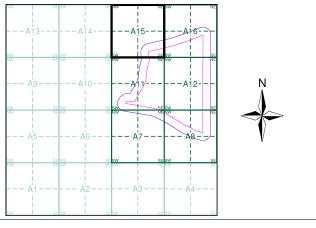
# Source map scale - 1:2,500

'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 A15**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

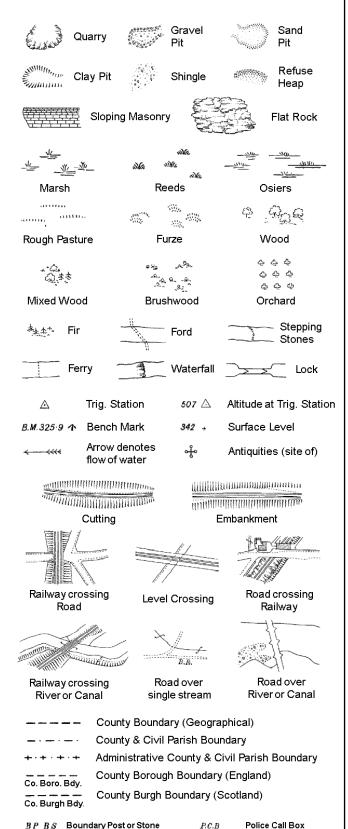
Landmark

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# **Historical Mapping Legends**

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



Pump

Sluice

Spring

Trough Well

Signal Post

Telephone Call Box

S.P

Sl.

Tr:

B.R.

E.P

F.B.

M.S

Bridle Road

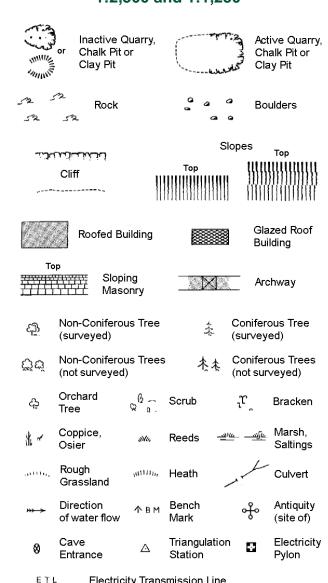
Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

# Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



**Electricity Transmission Line** 

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

вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump
	BP, BS Cn, C Chy D Fn EI P FAP FB GP H LC MH MP MS	BP, BS Boundary Post or Stone Cn, C Capstan, Crane Chy Chimney DFn Drinking Fountain EI P Electricity Pillar or Post FAP Fire Alarm Pillar FB Foot Bridge GP Guide Post H Hydrant or Hydraulic LC Level Crossing MH Manhole MP Mile Post or Mooring Post MS Mile Stone	BP, BS         Boundary Post or Stone         PO           Cn, C         Capstan, Crane         PC           Chy         Chimney         PH           D Fn         Drinking Fountain         Pp           EI P         Electricity Pillar or Post         SB, S Br           FAP         Fire Alarm Pillar         SP, SL           FB         Foot Bridge         Spr           GP         Guide Post         Tk           H         Hydrant or Hydraulic         TCB           LC         Level Crossing         TCP           MH         Manhole         Tr           MP         Mile Post or Mooring Post         Wr Pt, Wr T           MS         Mile Stone         W

# 1:1,250

		Slopes _{Top}			
لخناب	т	ор	Mannan		
Cliff	111111111	11111111111	101111111111111111111111111111111111111		
,	[[]]]][[]]	111111111111111111111111111111111111111	111111111111111111111111111111111111111		
≤2 ₅₂ Rock		52	Rock (scattered)		
△ Boulders		<i>\triangle</i>	Boulders (scattered)		
○ Positione	d Boulder		Scree		
মূল Non-Con (surveye	iferous Tree d)	-1-	Coniferous Tree (surveyed)		
్లో ద్ల Non-Con (not surv	iferous Trees eyed)	A A	Coniferous Trees (not surveyed)		
රු Orchard Tree	Q ⁰ Ω. Sci	rub	_ໃ ໃ Bracken		
Coppice, Osier	<i>≫</i> . Re	eds 🗝	<u>سرس</u> Marsh, Saltings		
, Rough Grasslan	d "mm, He	ath	Culvert		
Direction of water		angulation ition	Antiquity (site of)		
E_TL Electri	city Transmissio	n Line	⊠ Electricity Pylon		
BM 231.60m	Bench Mark		Buildings with Building Seed		
Roo	fed Building		Glazed Roof Building		
	Ci∨il parish/cor	nmunity bo	oundary		
	District bounda	=	<b>-</b>		
_ •	County bounda	-			
۰	Boundary post				
	Boundary mere		ol (note: these		
P			d pairs or groups		
Bks Barracks	:	Р	Pillar, Pole or Post		
Bty Battery		PO	Post Office		
Cemy Cemeter Chy Chimney	-	PC Pp	Public Convenience		
Chy Chimney Cis Cistern		Pp Ppg Sta	Pump Pumping Station		
	ntled Railway	PW	Place of Worship		
•	icity Generating	Sewage Pp	•		
	y Pole, Pillar	SB, S Br	Signal Box or Bridge		
El Sub Sta Electricit		SP, SL	Signal Post or Light		
FB Filter Be		Spr	Spring		
	/ Drinking Ftn.	Tk	Tank or Track		

Gas Valve Compound

Mile Post or Mile Stone

Gas Governer

**Guide Post** 

Manhole

Tr

Wd Pp

Wks

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

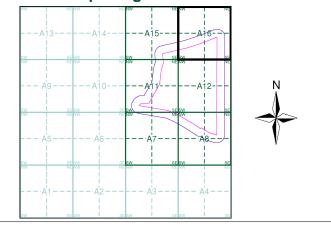
Works (building or area)



# **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1872	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1961 - 1965	5
Ordnance Survey Plan	1:2,500	1969	6
Ordnance Survey Plan	1:2,500	1975	7
Additional SIMs	1:2,500	1979 - 1989	8
Additional SIMs	1:2,500	1989	9
Ordnance Survey Plan	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1993	11

# **Historical Map - Segment A16**



#### **Order Details**

Order Number: 304808740_1_1 323126 Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): 71.96

# Search Buffer (m): **Site Details**

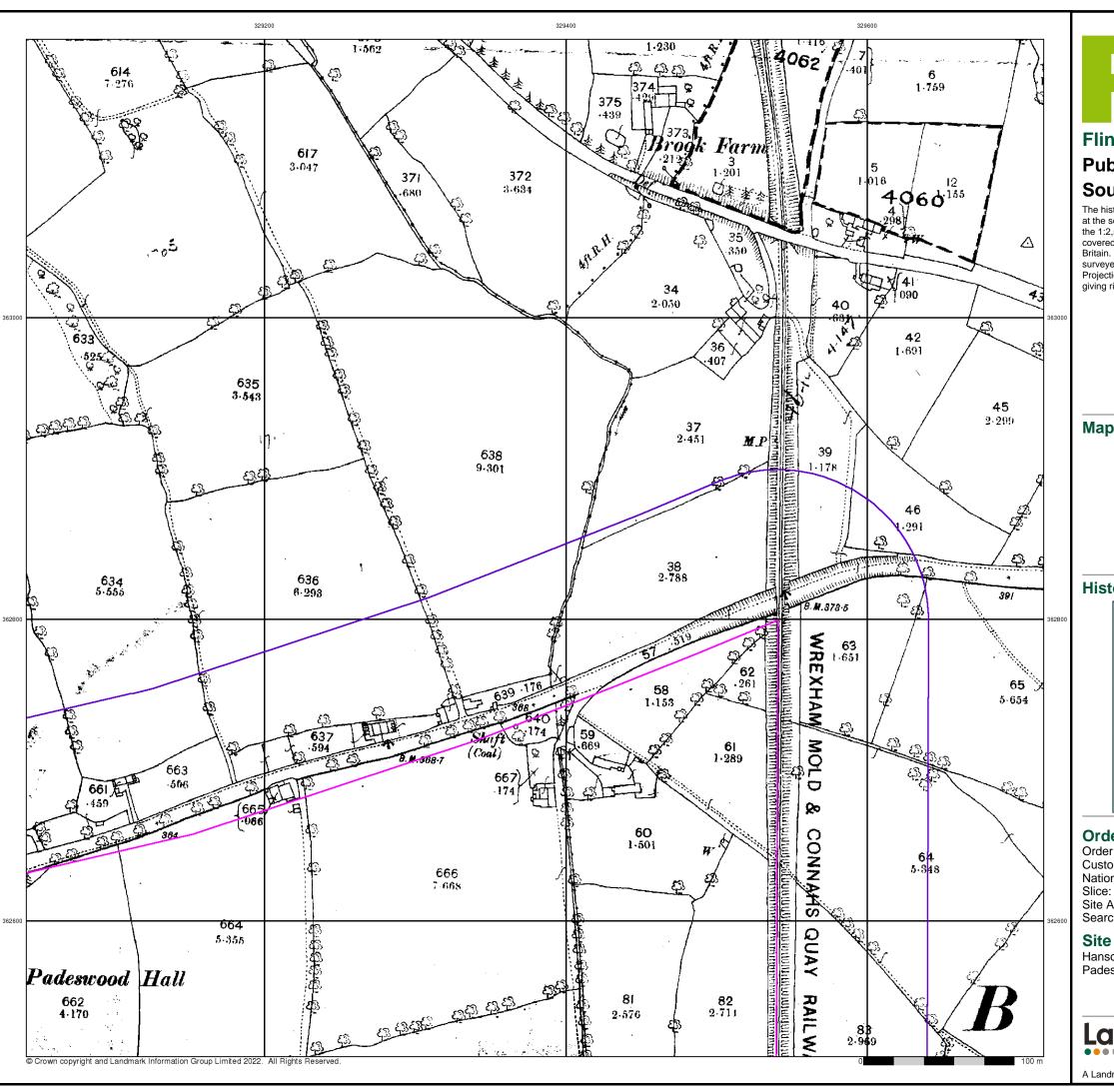
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

100



0844 844 9952 0844 844 9951

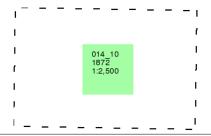
A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 11



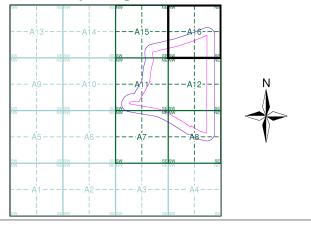
# **Published 1872** Source map scale - 1:2,500

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 A16**



## **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

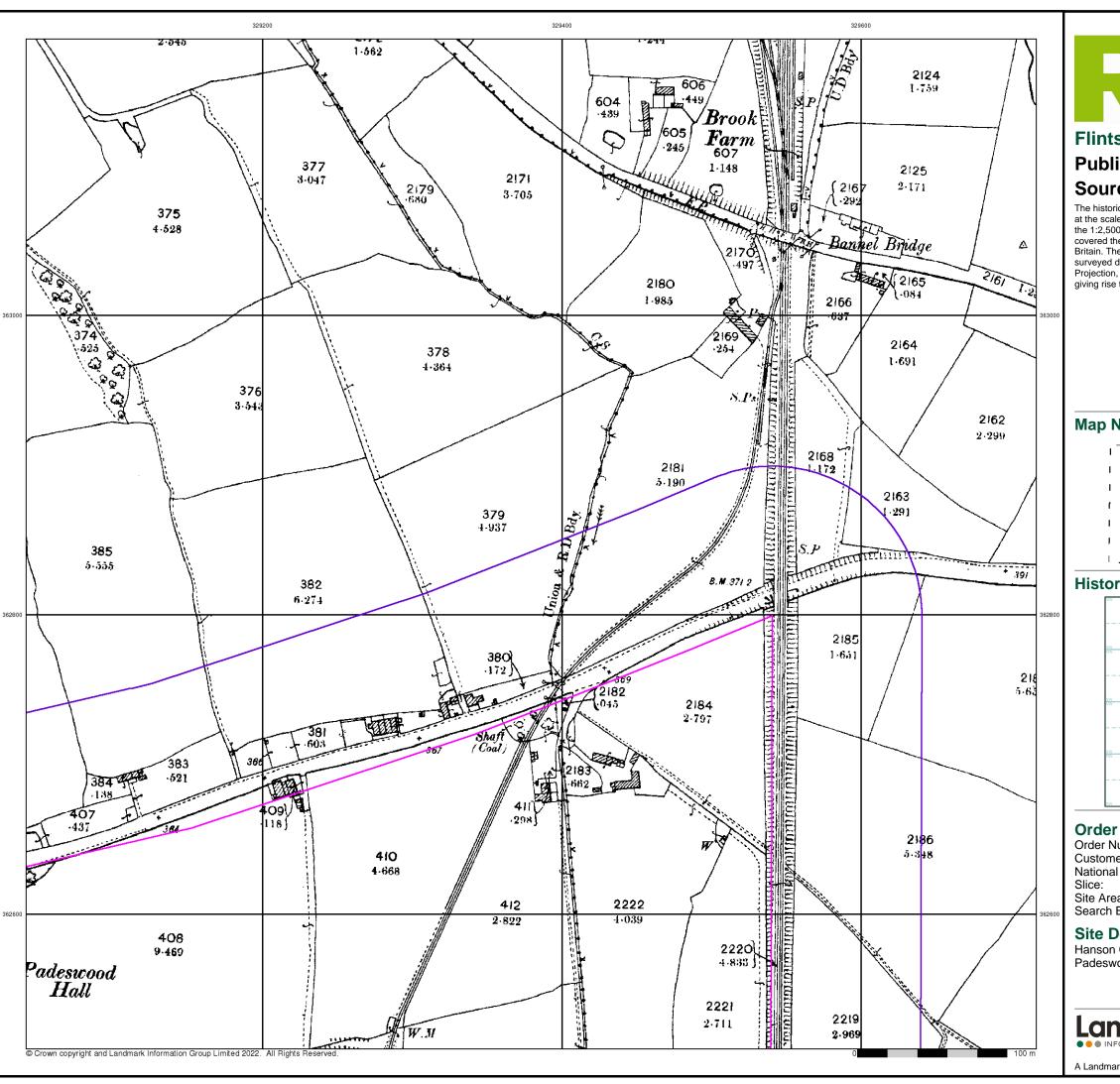
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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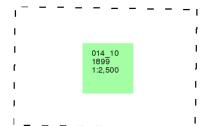
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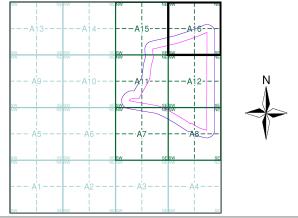
# **Published 1899** Source map scale - 1:2,500

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 A16**



### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

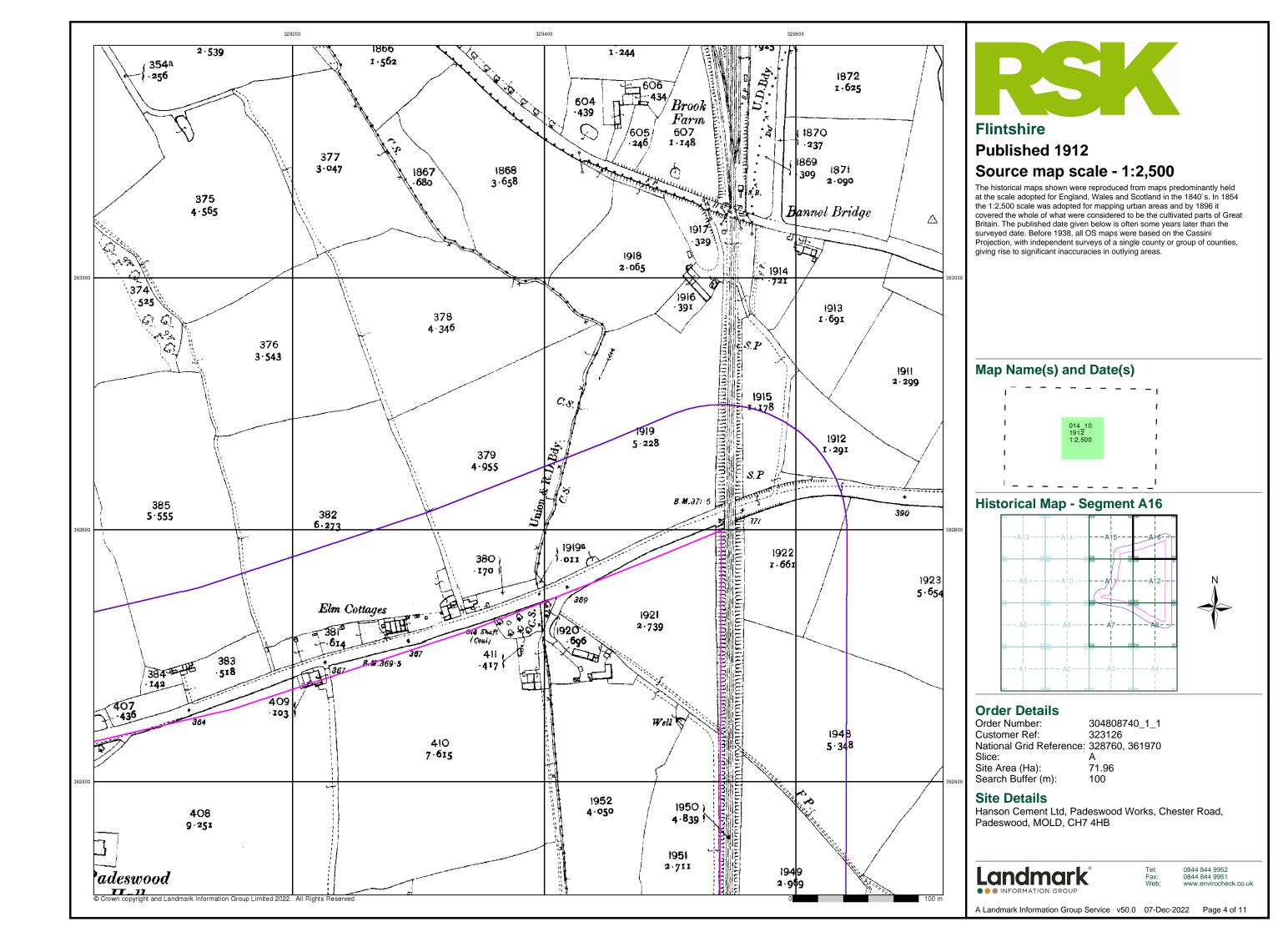
#### **Site Details**

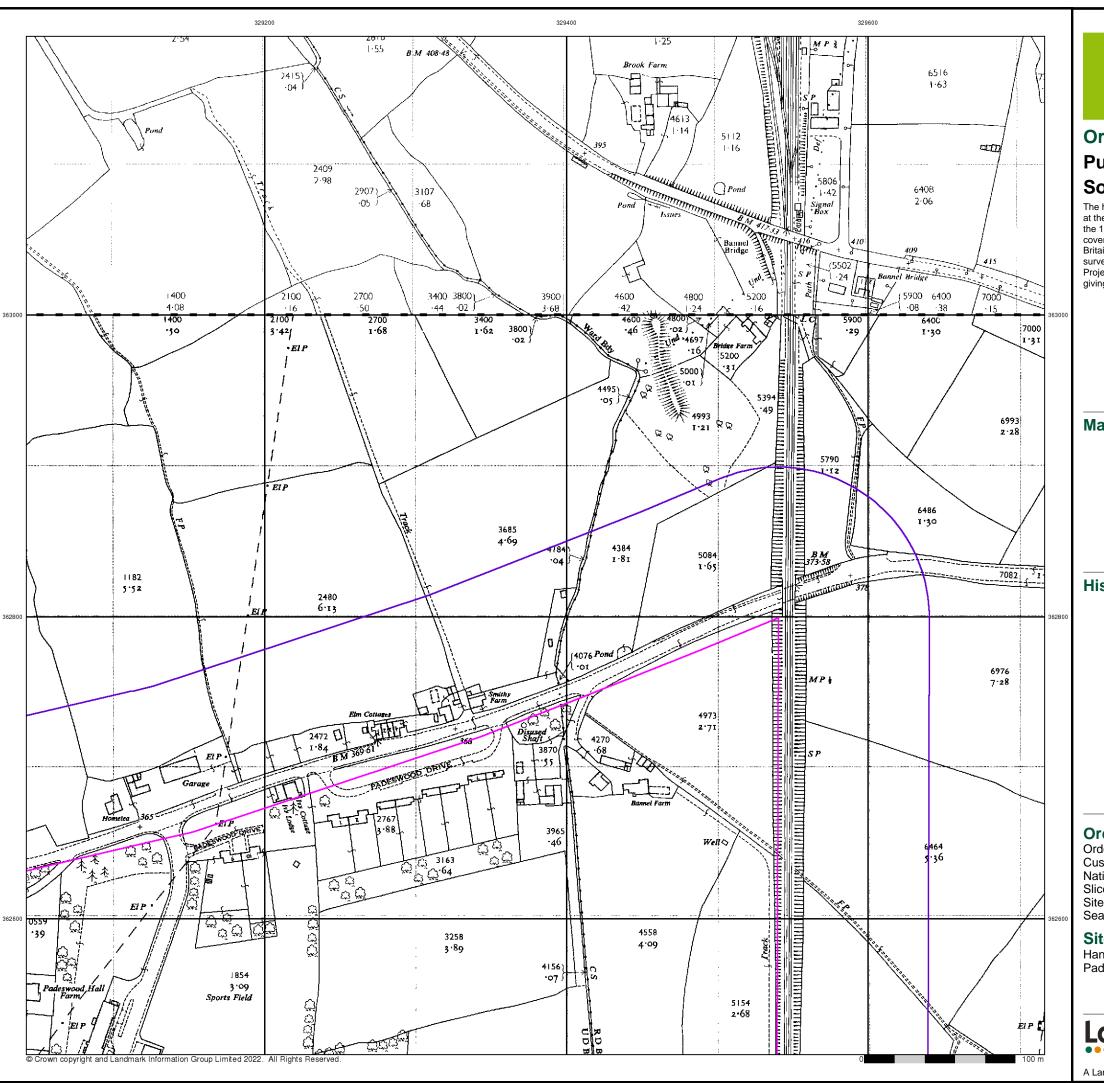
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A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 11



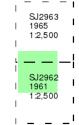




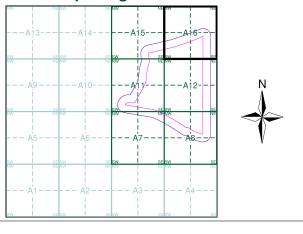
# **Published 1961 - 1965 Source map scale - 1:2,500**

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 A16**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 328760, 361970
Slice: A

Site Area (Ha): 71.96 Search Buffer (m): 100

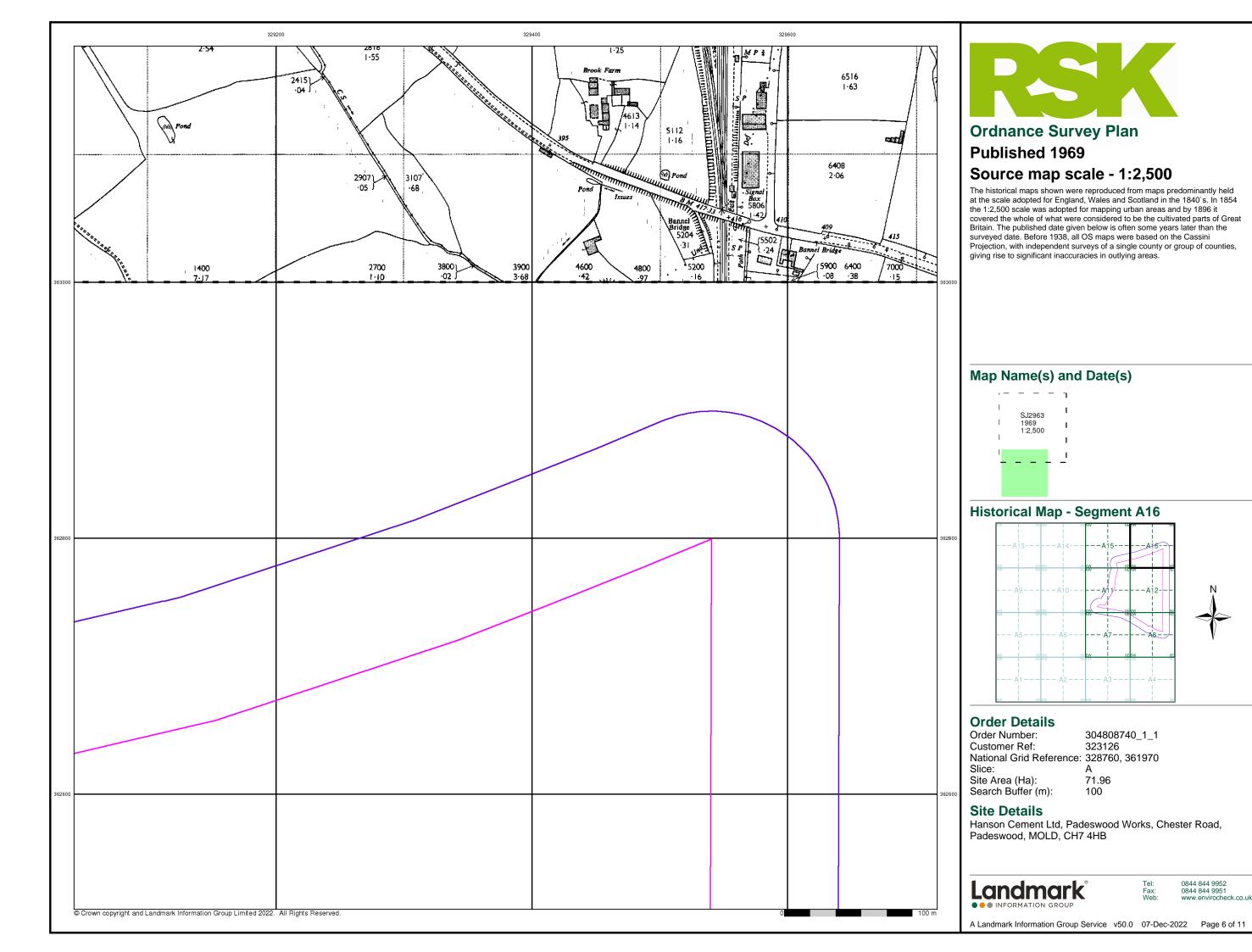
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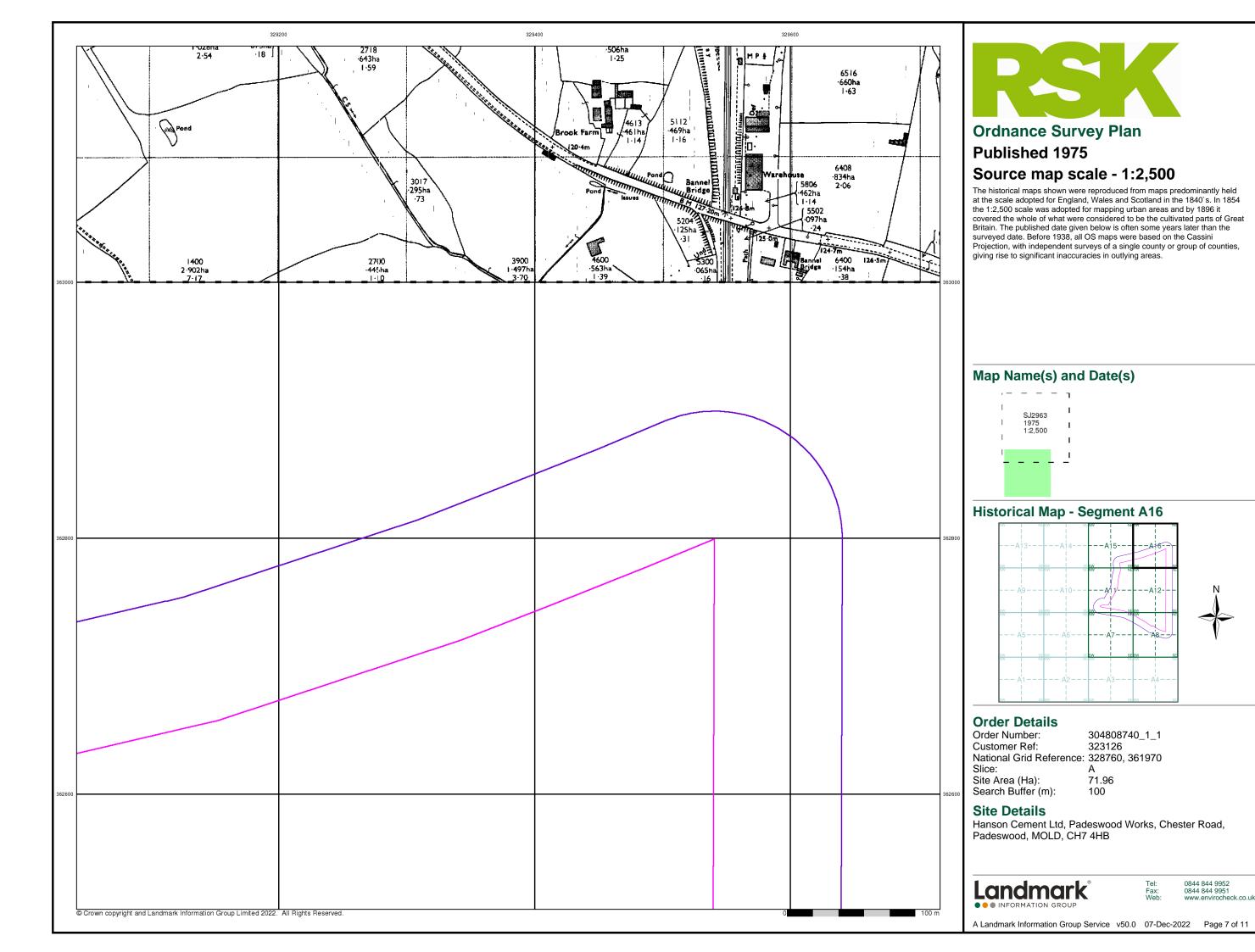
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

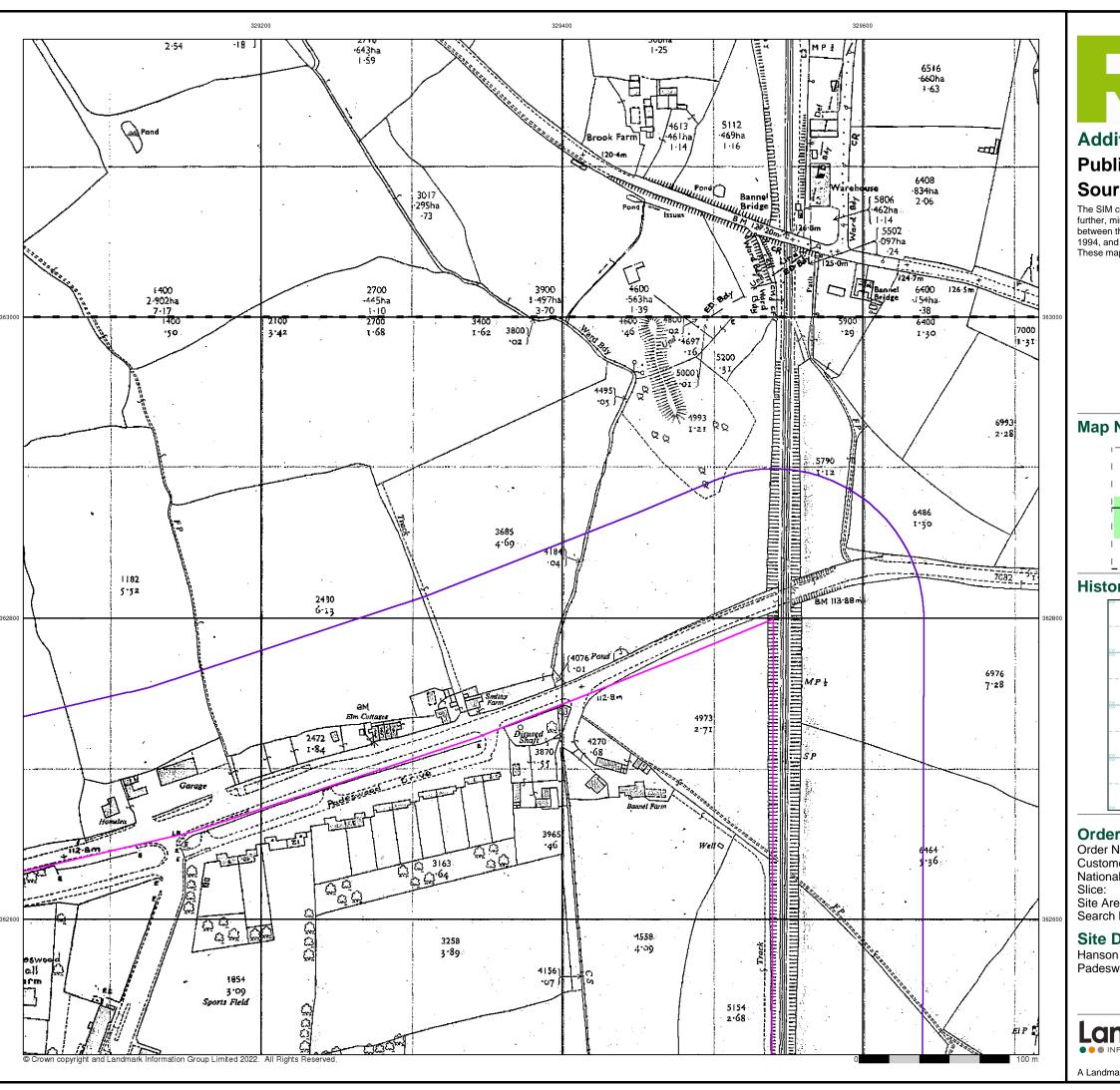


el: 0844 844 9952 tx: 0844 844 9951 eb: www.envirocheck.co.uk

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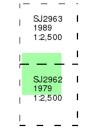


# **Additional SIMs**

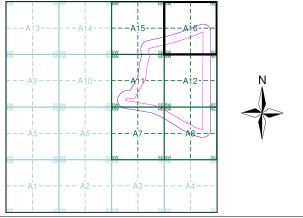
# Published 1979 - 1989 Source map scale - 1:2,500

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 A16**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

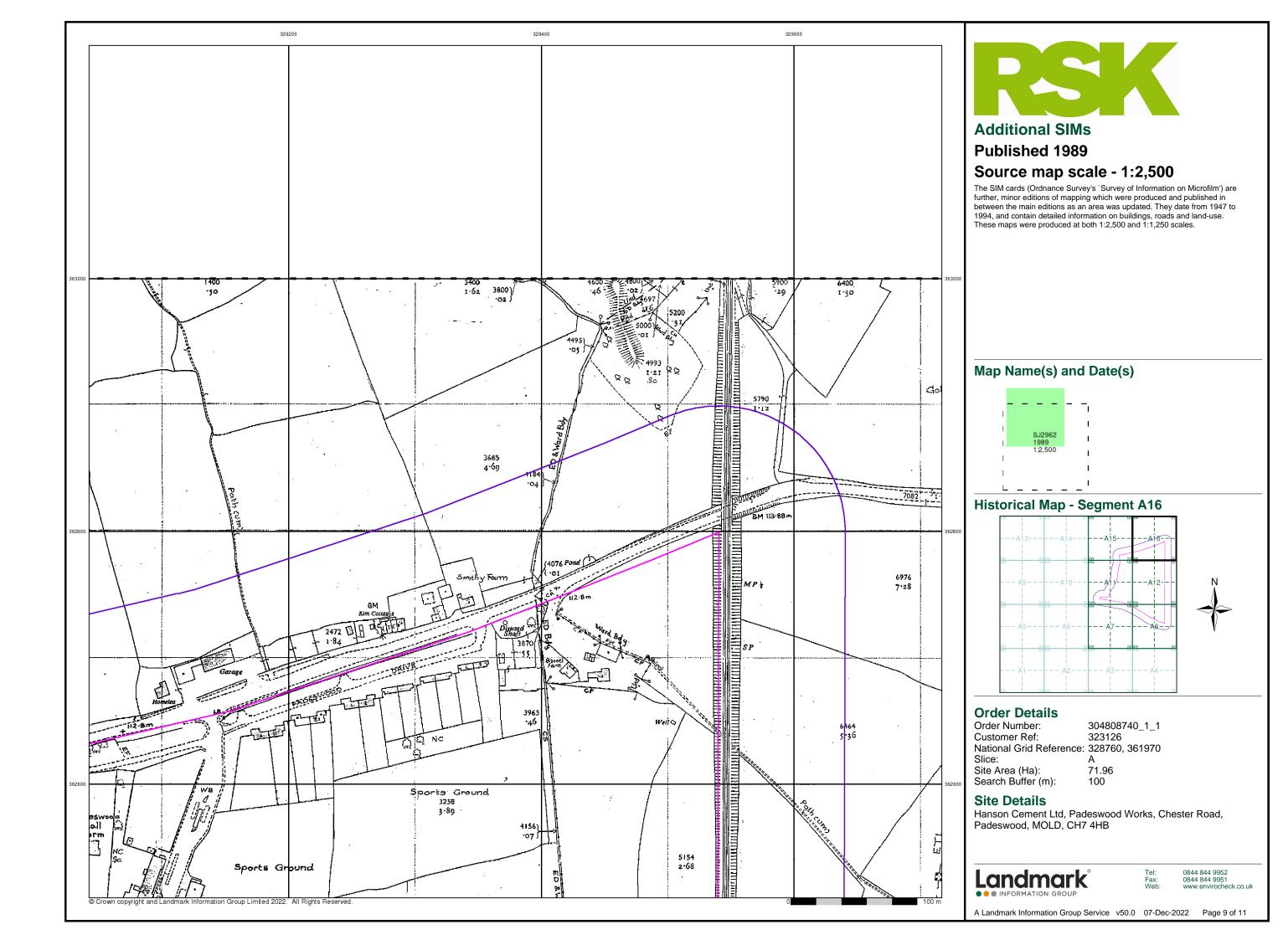
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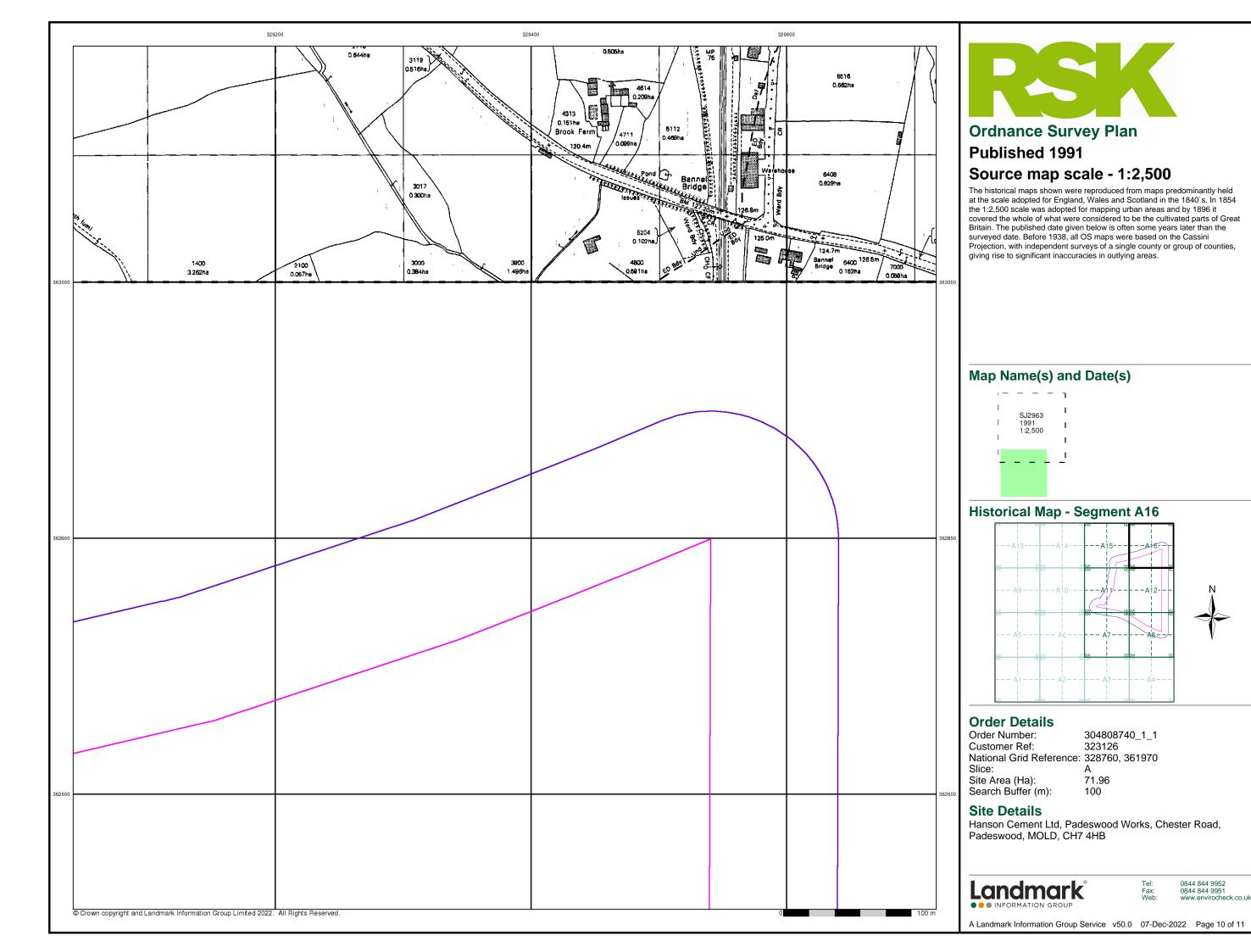
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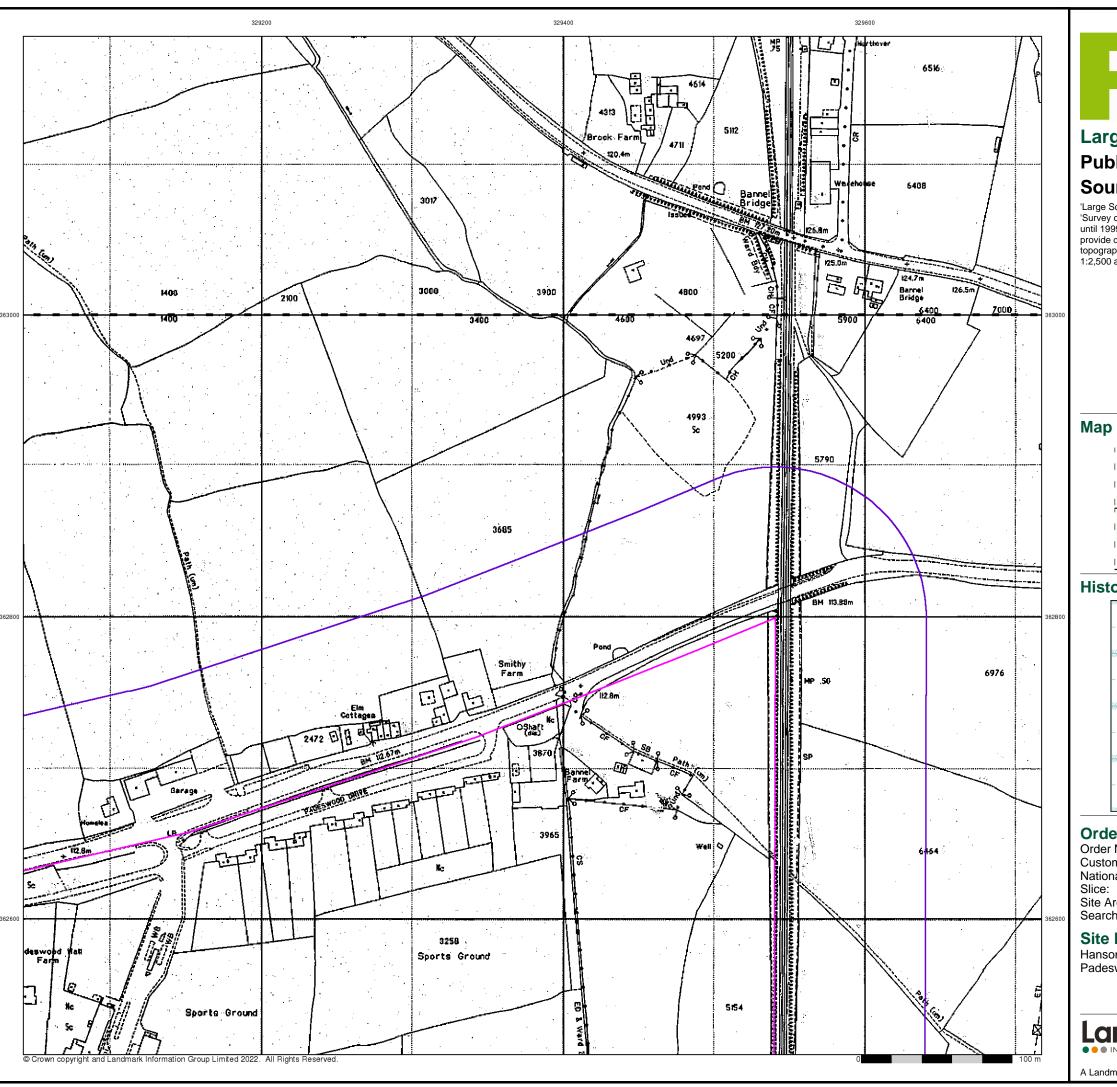
Landmark

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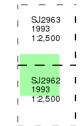
# **Large-Scale National Grid Data**

# Published 1993

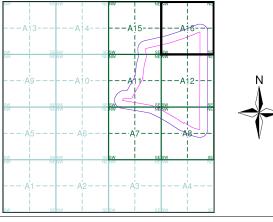
# Source map scale - 1:2,500

'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 A16**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 328760, 361970

Site Area (Ha): Search Buffer (m): 71.96 100

#### **Site Details**

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# **Historical Mapping Legends**

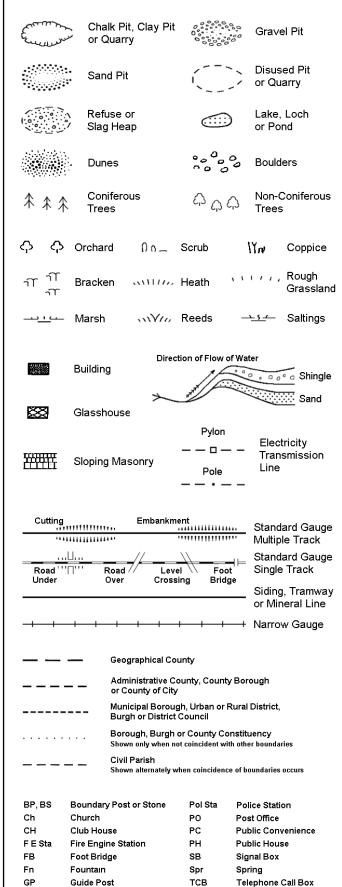
#### **Ordnance Survey County Series 1:10,560** Gravel Other Orchard Osiers Mixed Wood Deciduous Brushwood Furze Rough Pasture Arrow denotes Trigonometrical flow of water Station Site of Antiquities Bench Mark Pump, Guide Post, Well, Spring, Signal Post **Boundary Post** ·285 Surface Level Sketched Instrumental Contour Contour Fenced Fenced Main Roads Minor Roads Un-Fenced Sunken Road Raised Road Railway over Road over Ri∨er Railway Railway over Level Crossing Road Road over Road over Road over County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England) Co. Boro. Bdy. County Burgh Boundary (Scotland) Co. Burgh Bdy.

Rural District Boundary

····· Civil Parish Boundary

RD. Bdy.

## Ordnance Survey Plan 1:10,000



TCP

Telephone Call Post

Mile Post

#### 1:10,000 Raster Mapping

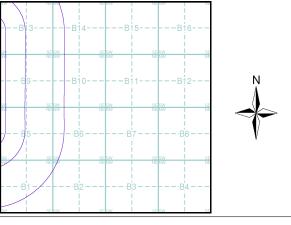
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
********	Slopes		Top of cliff
	General detail		Underground detail
	- Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)	• • • • •	Ci∨il, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
۵ ⁰	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
<i>۵</i>	Non-coniferous trees (scattered)	**	Coniferous trees
*	Coniferous trees (scattered)	Ċ̄	Positioned tree
4 4 4 4	Orchard	* *	Coppice or Osiers
्रार्गेत स्रोतित	Rough Grassland	www.	Heath
On_	Scrub	7 <u>₩</u> ۲	Marsh, Salt Marsh or Reeds
6	Water feature	← ←	Flow arrows
MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs)
-••-	Telephone line (where shown)	<b></b>	Electricity transmission line (with poles)
← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)	$\boxtimes$	Pylon, flare stac or lighting tower
+	Site of (antiquity)		Glasshouse
	General Building		Important Building



### **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1871	2
Flintshire	1:10,560	1881	3
Cheshire	1:10,560	1900	4
Flintshire	1:10,560	1900	5
Cheshire	1:10,560	1914	6
Flintshire	1:10,560	1914	7
Flintshire	1:10,560	1938	8
Flintshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1954	10
Ordnance Survey Plan	1:10,000	1964 - 1966	11
Ordnance Survey Plan	1:10,000	1968 - 1969	12
Ordnance Survey Plan	1:10,000	1975	13
Ordnance Survey Plan	1:10,000	1983	14
Ordnance Survey Plan	1:10,000	1991	15
10K Raster Mapping	1:10,000	1999 - 2000	16
Street View	Variable		17

# **Historical Map - Slice B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980 Slice: В

Site Area (Ha): 71.96 Search Buffer (m): 1000

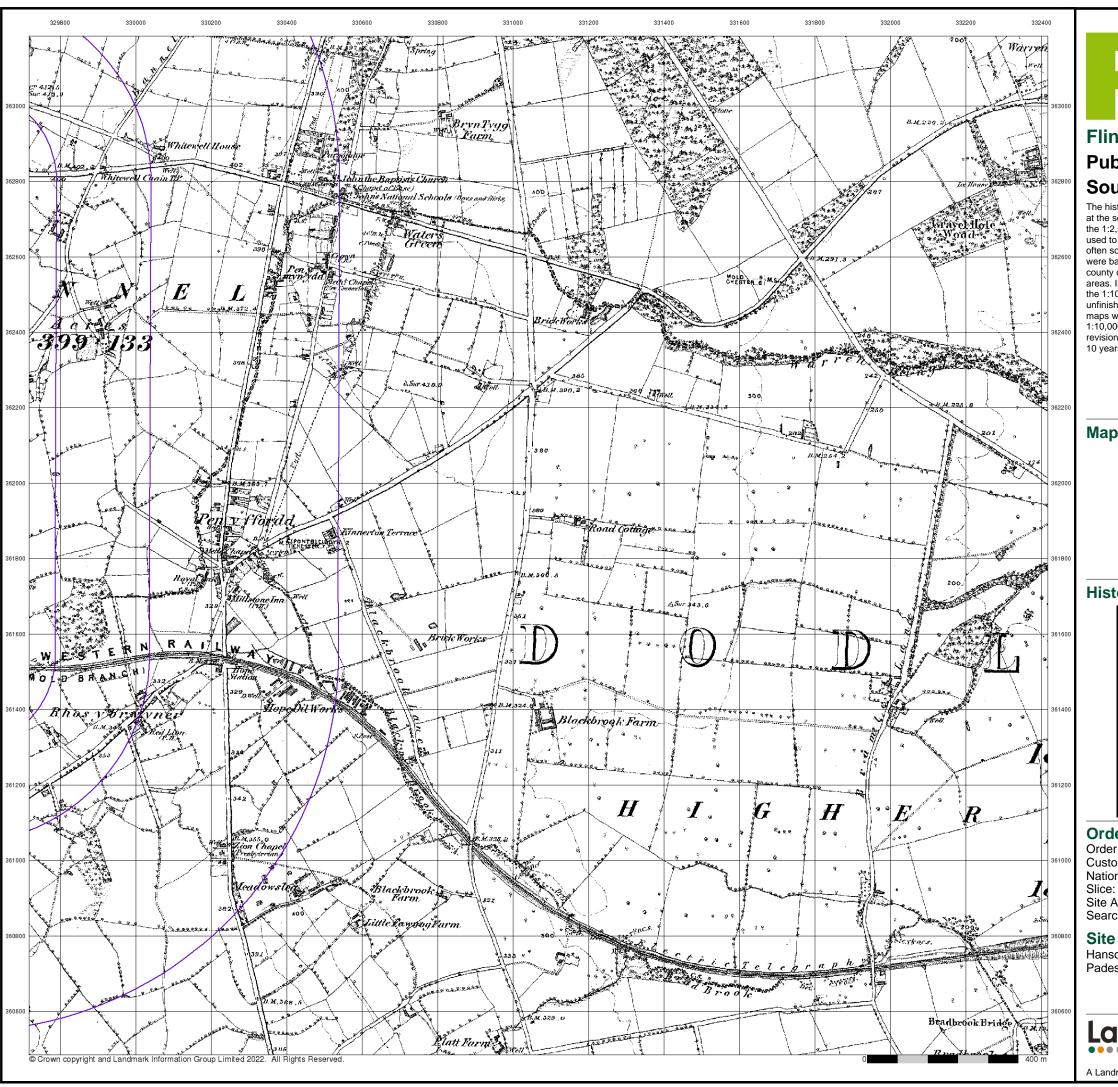
#### **Site Details**

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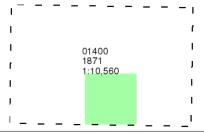
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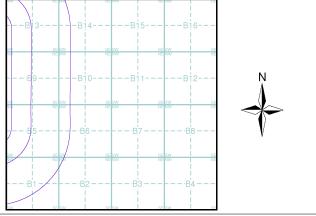
# **Published 1871** Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980 В

Site Area (Ha): 71.96 Search Buffer (m): 1000

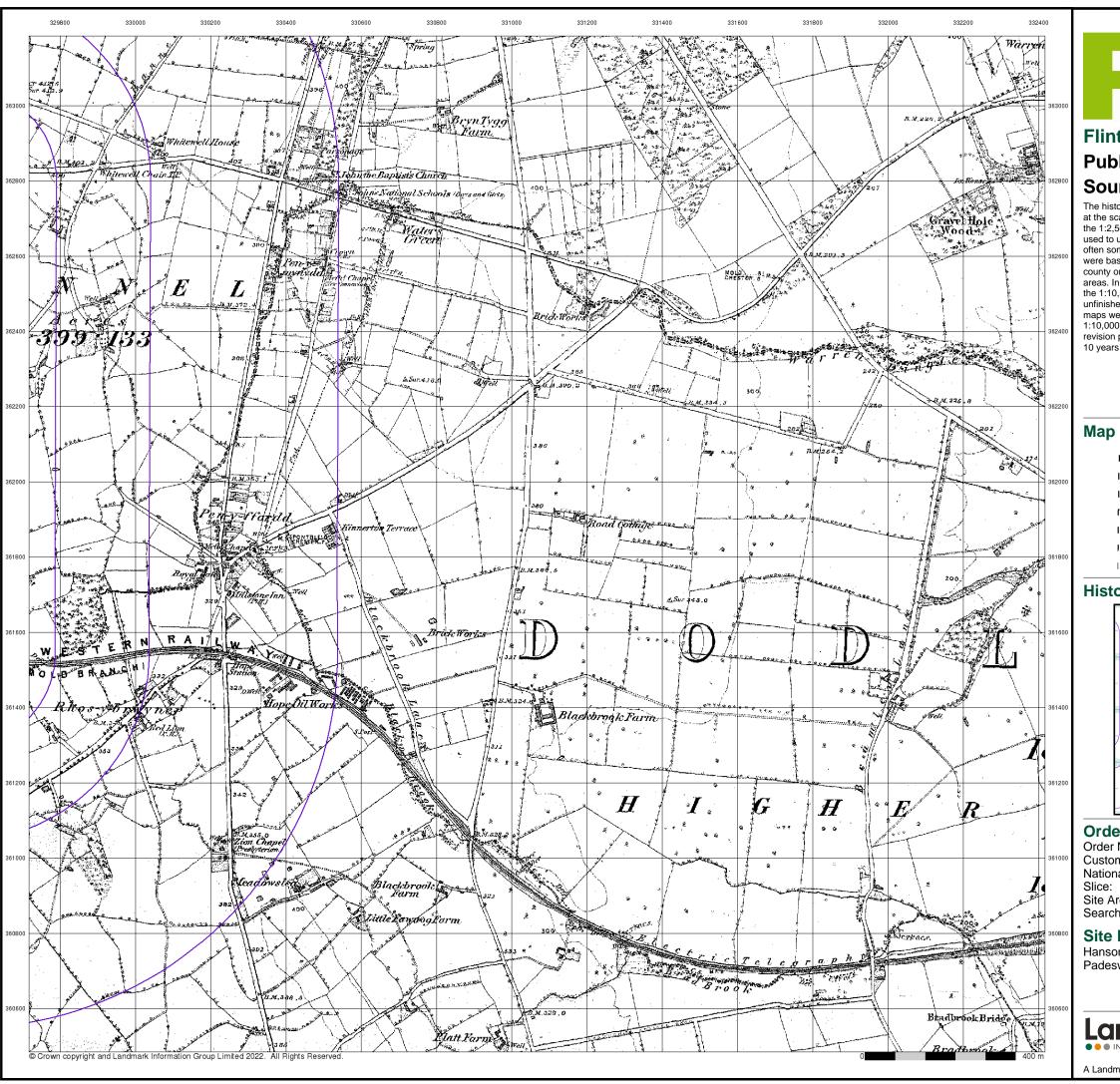
#### **Site Details**

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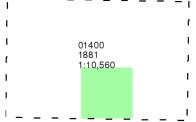
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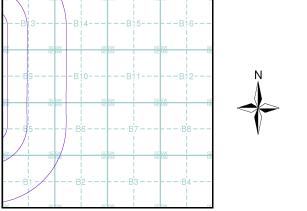
# **Published 1881** Source map scale - 1:10,560

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)



#### **Historical Map - Slice B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980

В Site Area (Ha): 71.96 Search Buffer (m): 1000

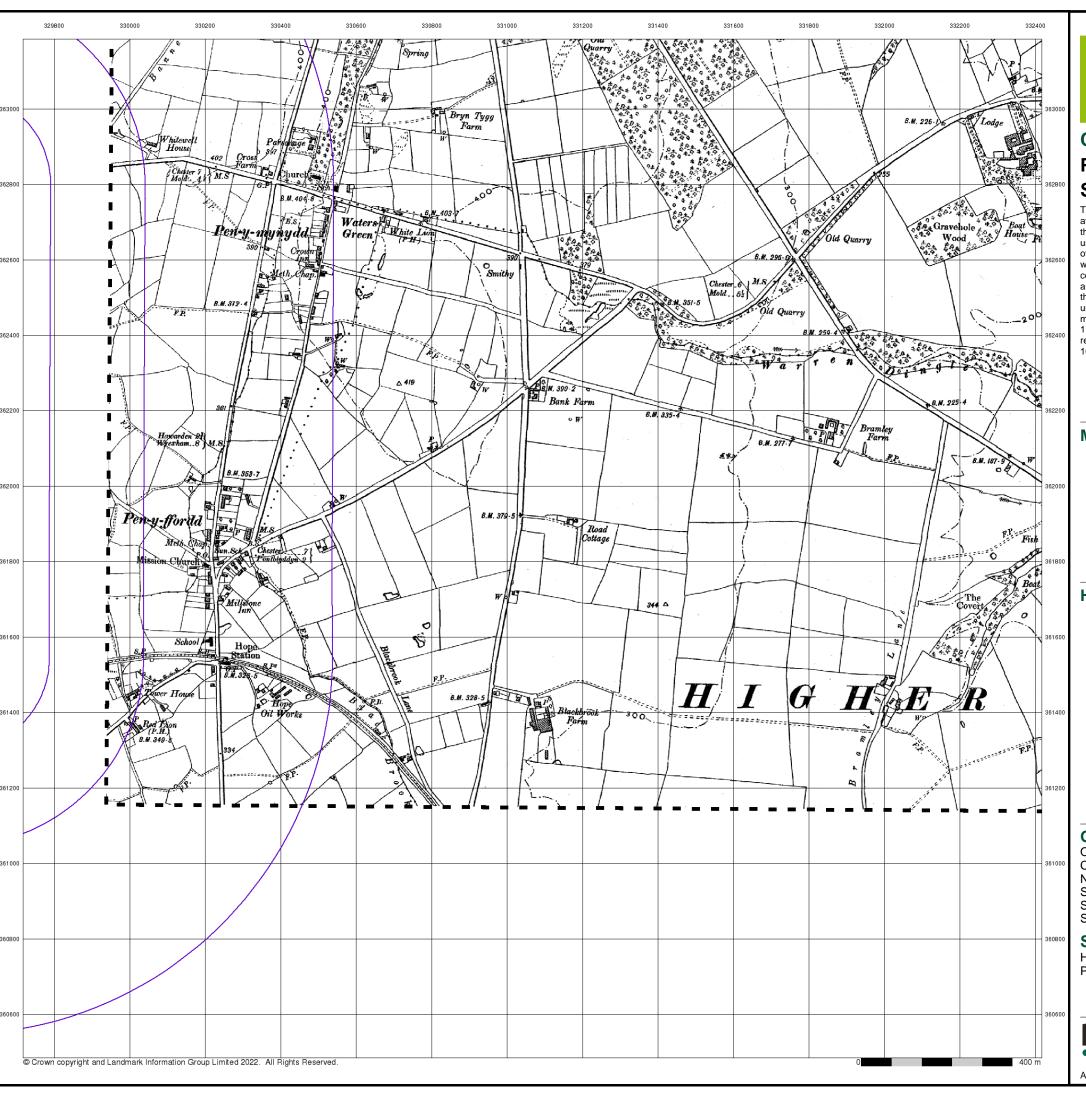
#### **Site Details**

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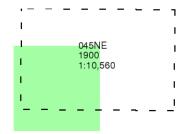
# RSK

#### Cheshire

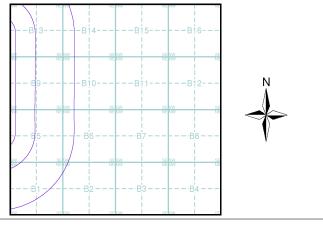
# Published 1900 Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330100, 361980
Slice: B

Site Area (Ha): 71.96 Search Buffer (m): 1000

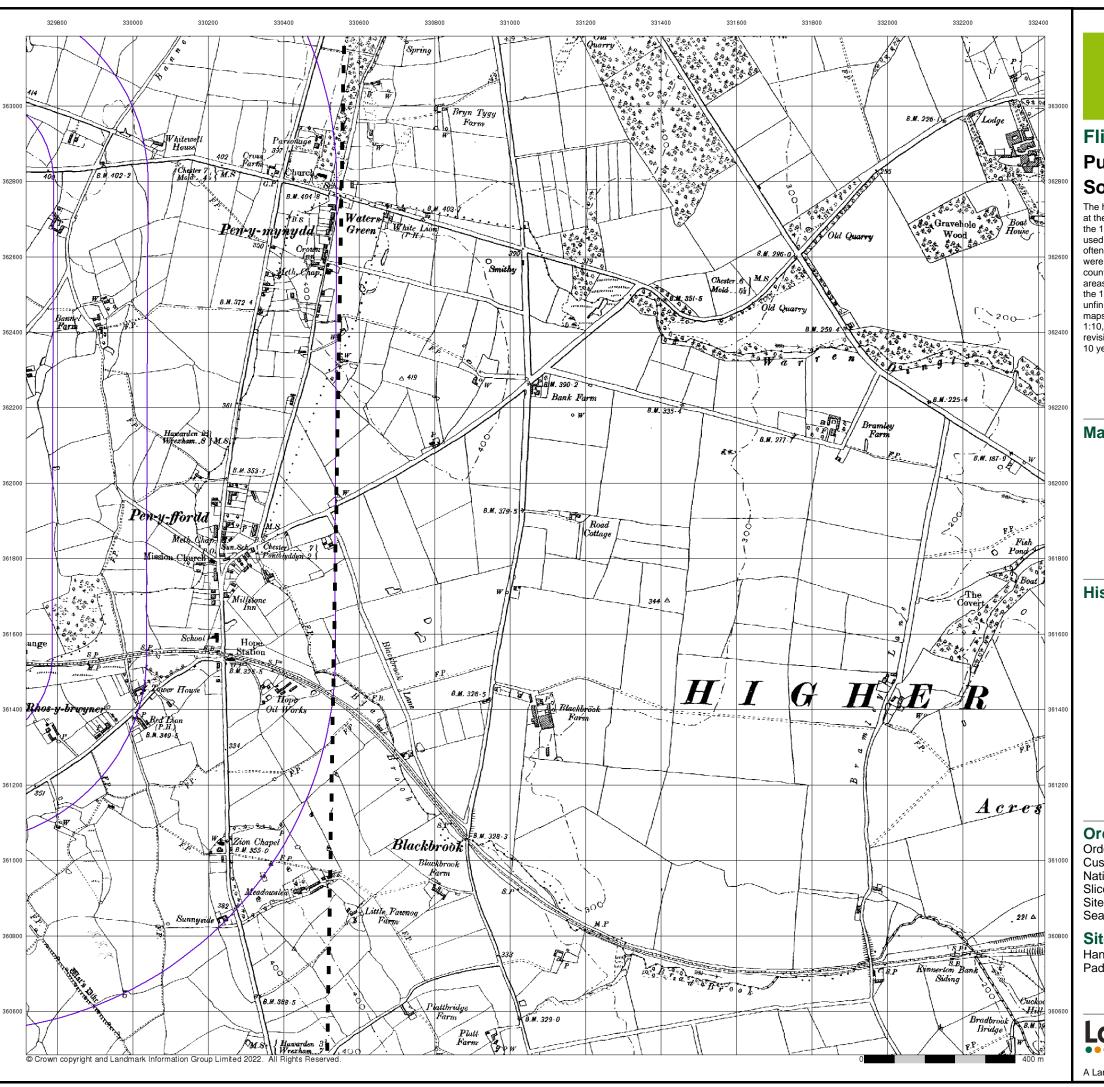
#### **Site Details**

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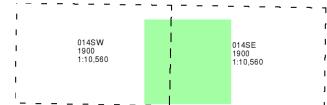
# RS

#### **Flintshire**

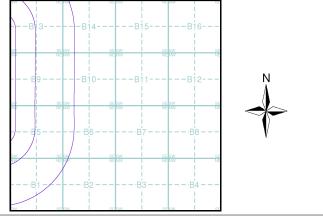
# Published 1900 Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330100, 361980
Slice: B

: B Area (Ha): 71 !

Site Area (Ha): 71.96 Search Buffer (m): 1000

#### **Site Details**

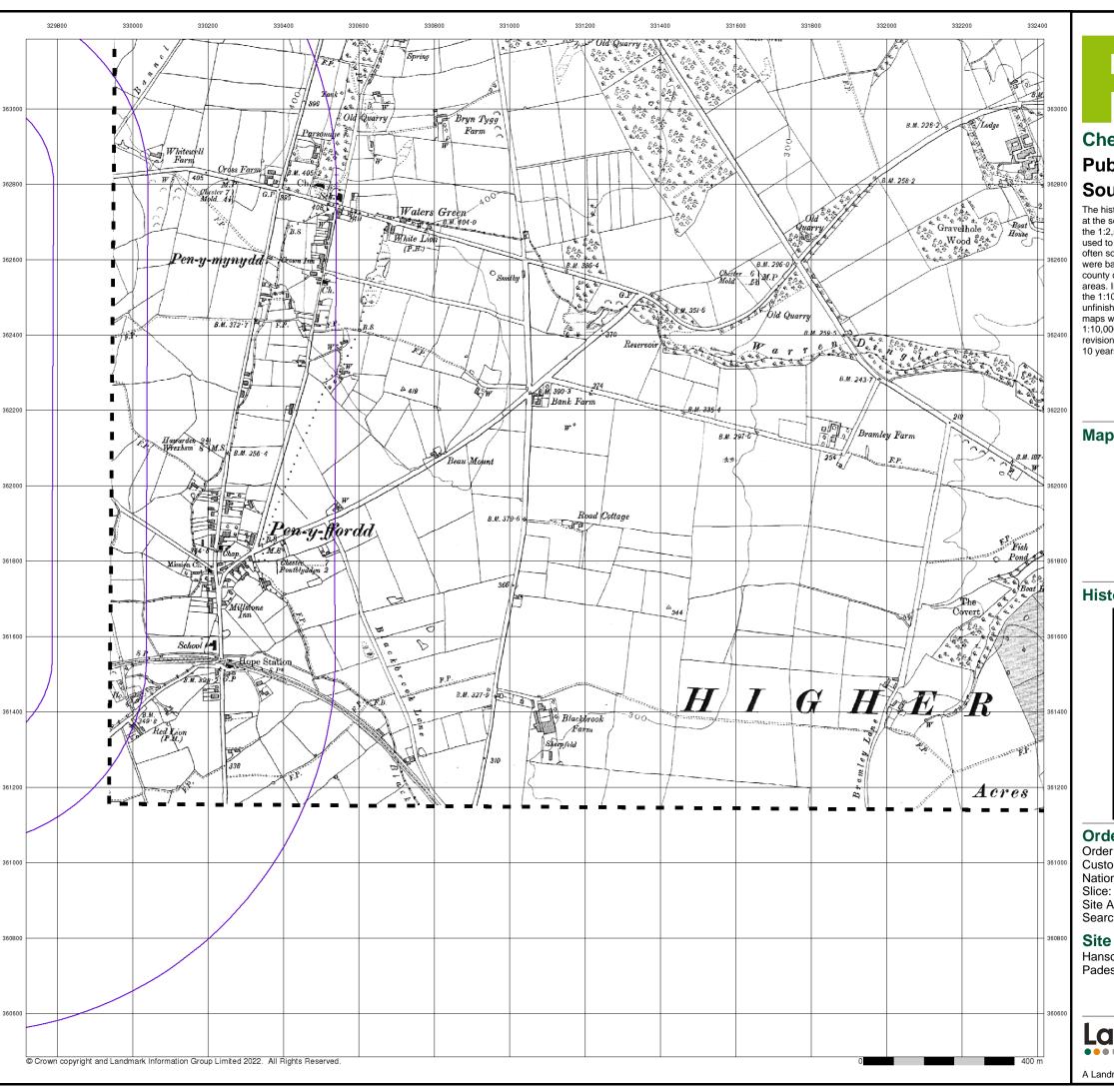
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

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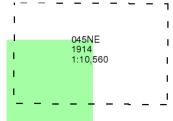
## Cheshire

# **Published 1914**

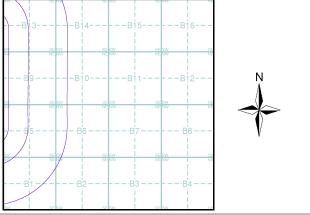
#### Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980 В

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

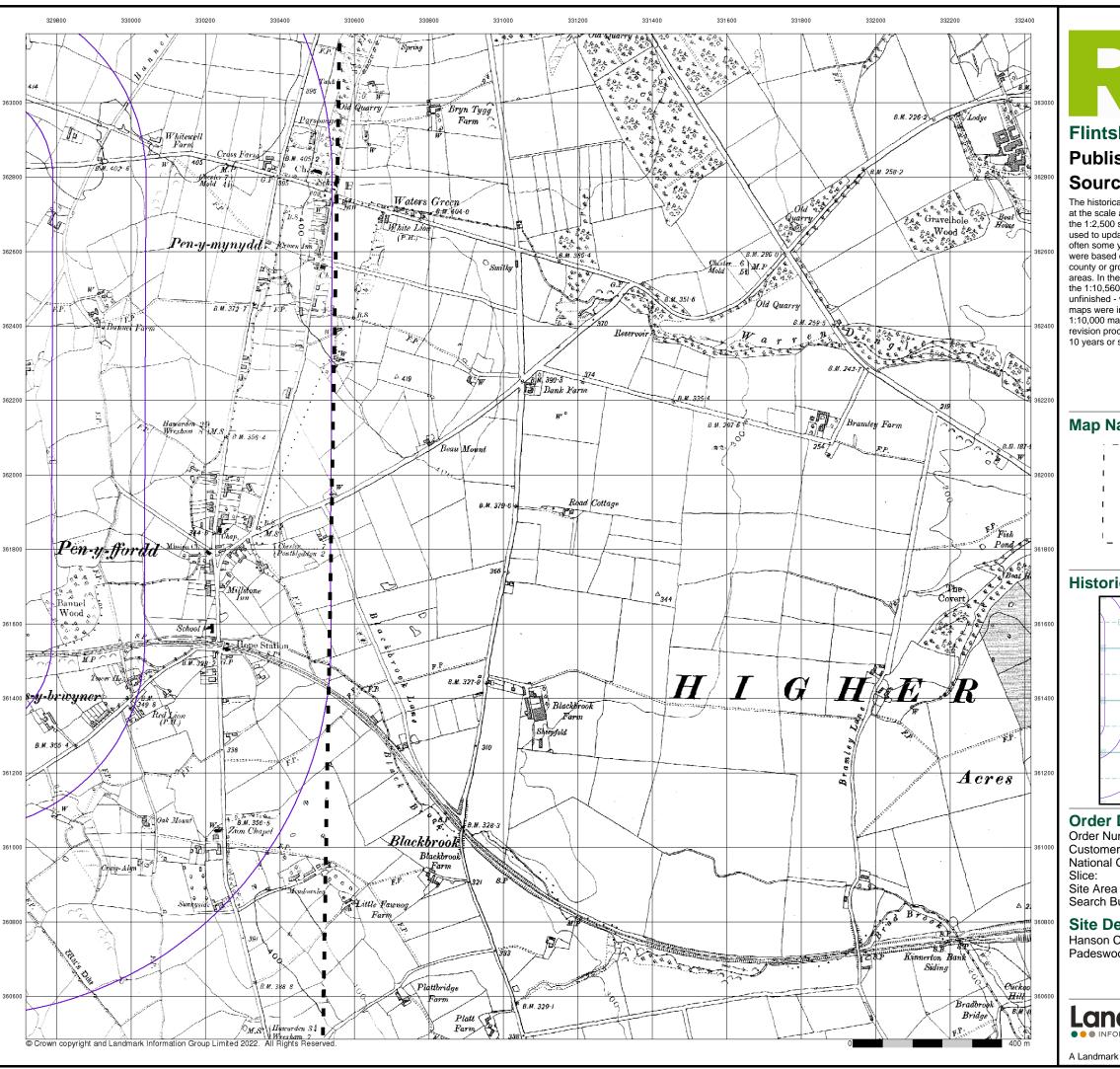
#### **Site Details**

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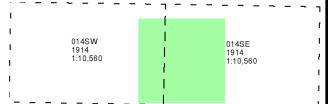


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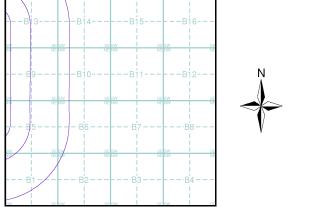
# Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980 В

Site Area (Ha): 71.96 Search Buffer (m): 1000

#### **Site Details**

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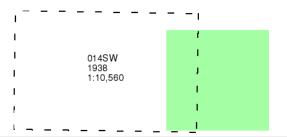




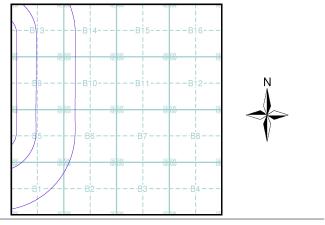
# **Published 1938** Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 330100, 361980 Slice: В

Site Area (Ha): 71.96 Search Buffer (m): 1000

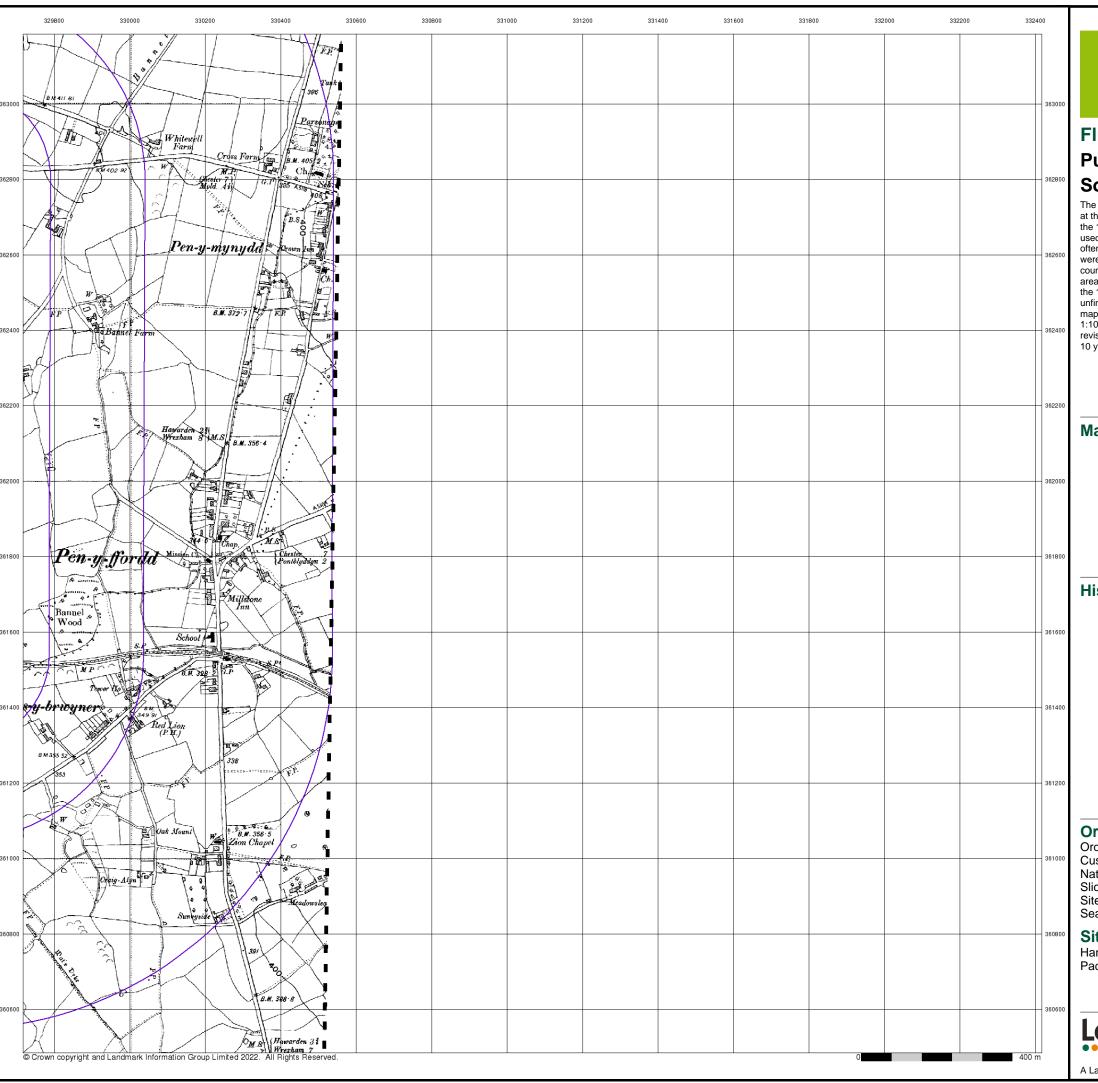
#### **Site Details**

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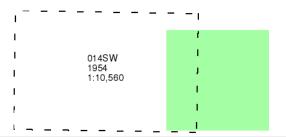




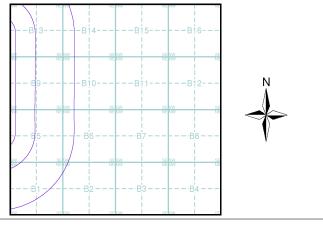
# **Published 1954** Source map scale - 1:10,560

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 B**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 330100, 361980 Slice: В

Site Area (Ha): 71.96 Search Buffer (m): 1000

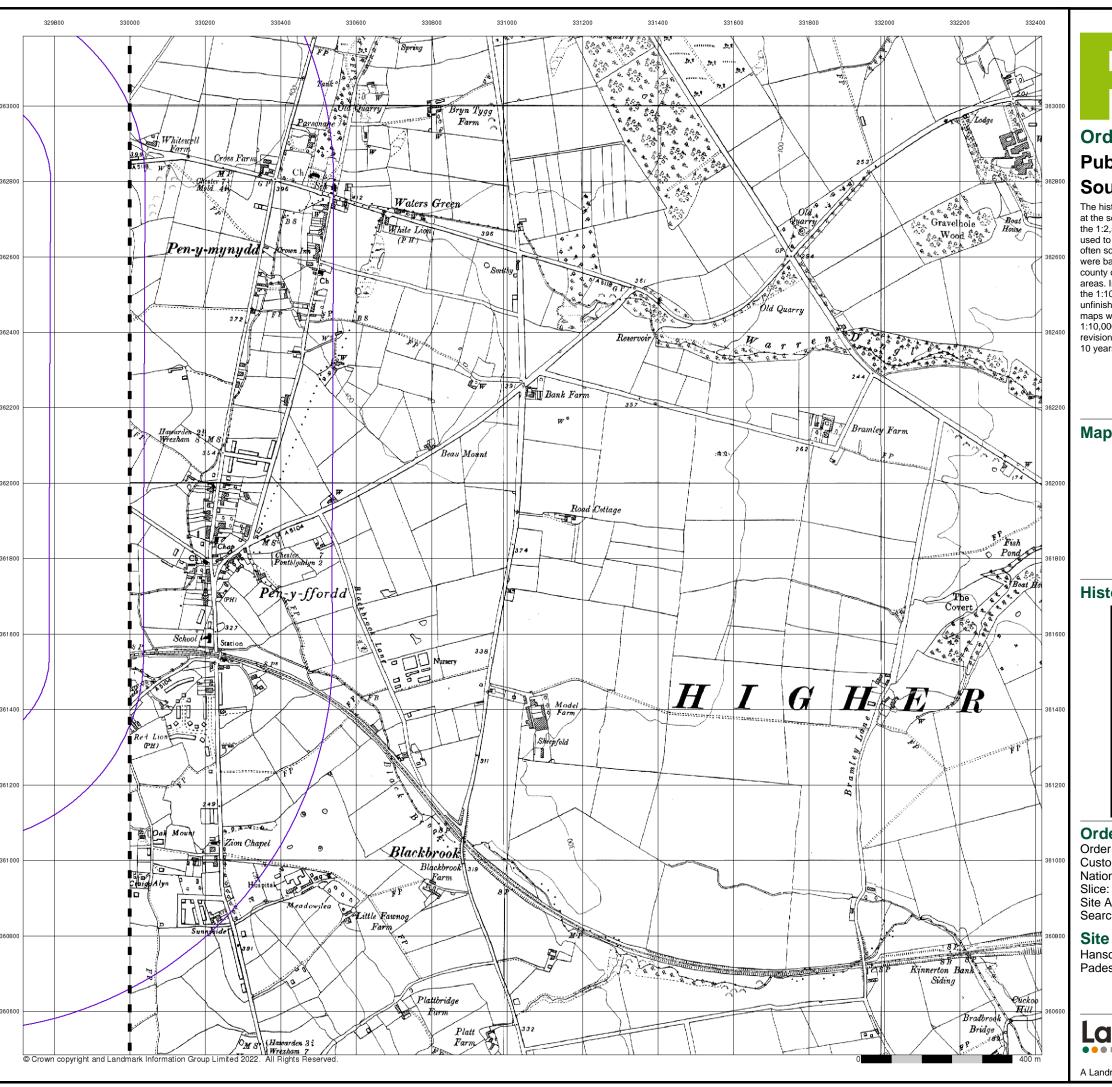
#### **Site Details**

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Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 9 of 17



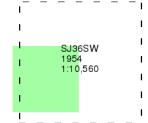


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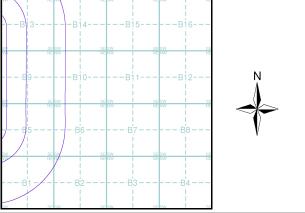
# Source map scale - 1:10,000

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 B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980

В

Site Area (Ha): 71.96 Search Buffer (m): 1000

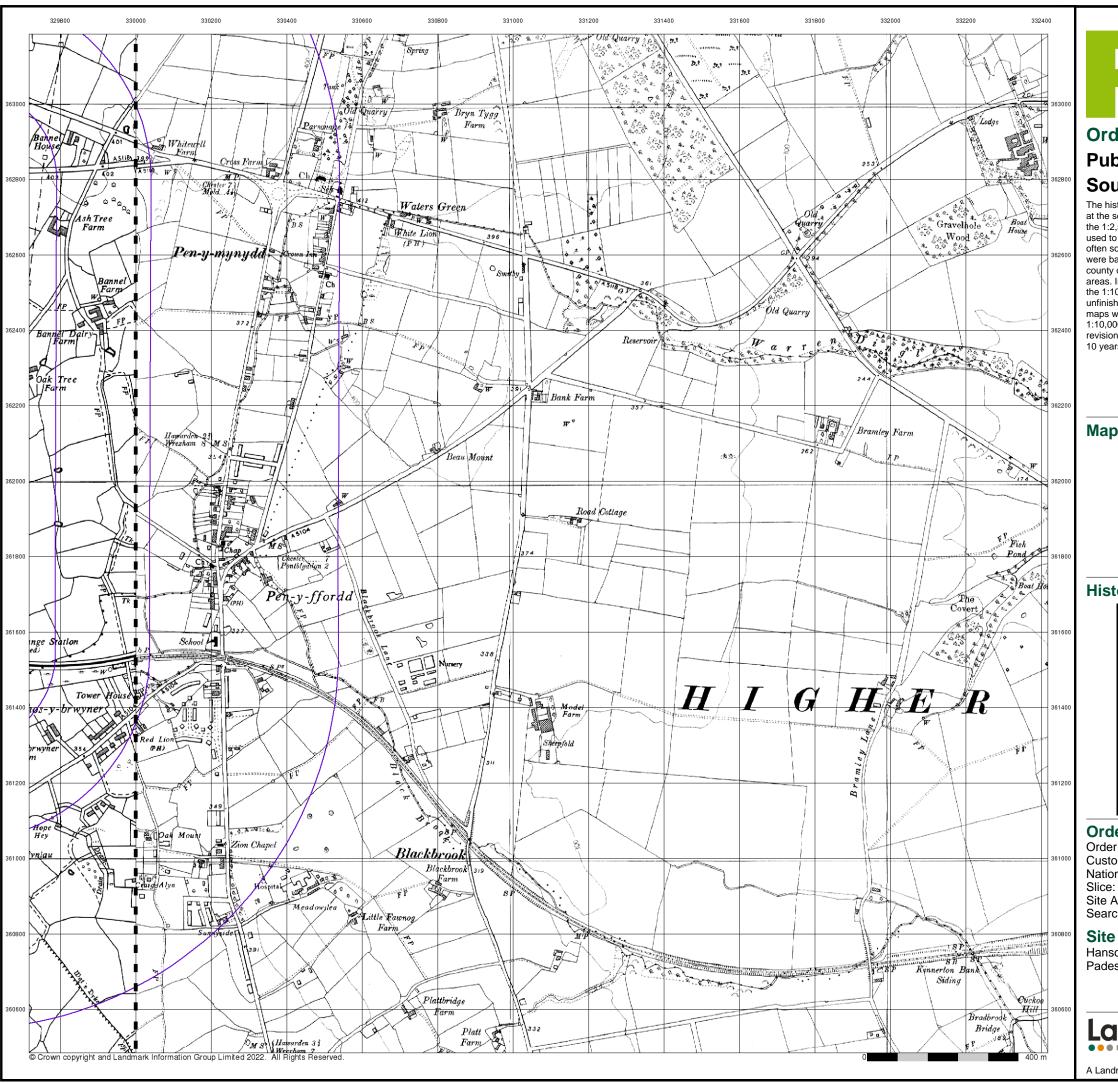
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

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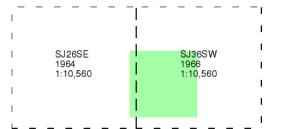
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# Ordnance Survey Plan Published 1964 - 1966

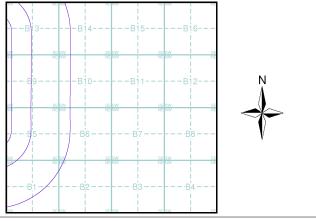
# Source map scale - 1:10,000

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 B**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330100, 361980

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 1000

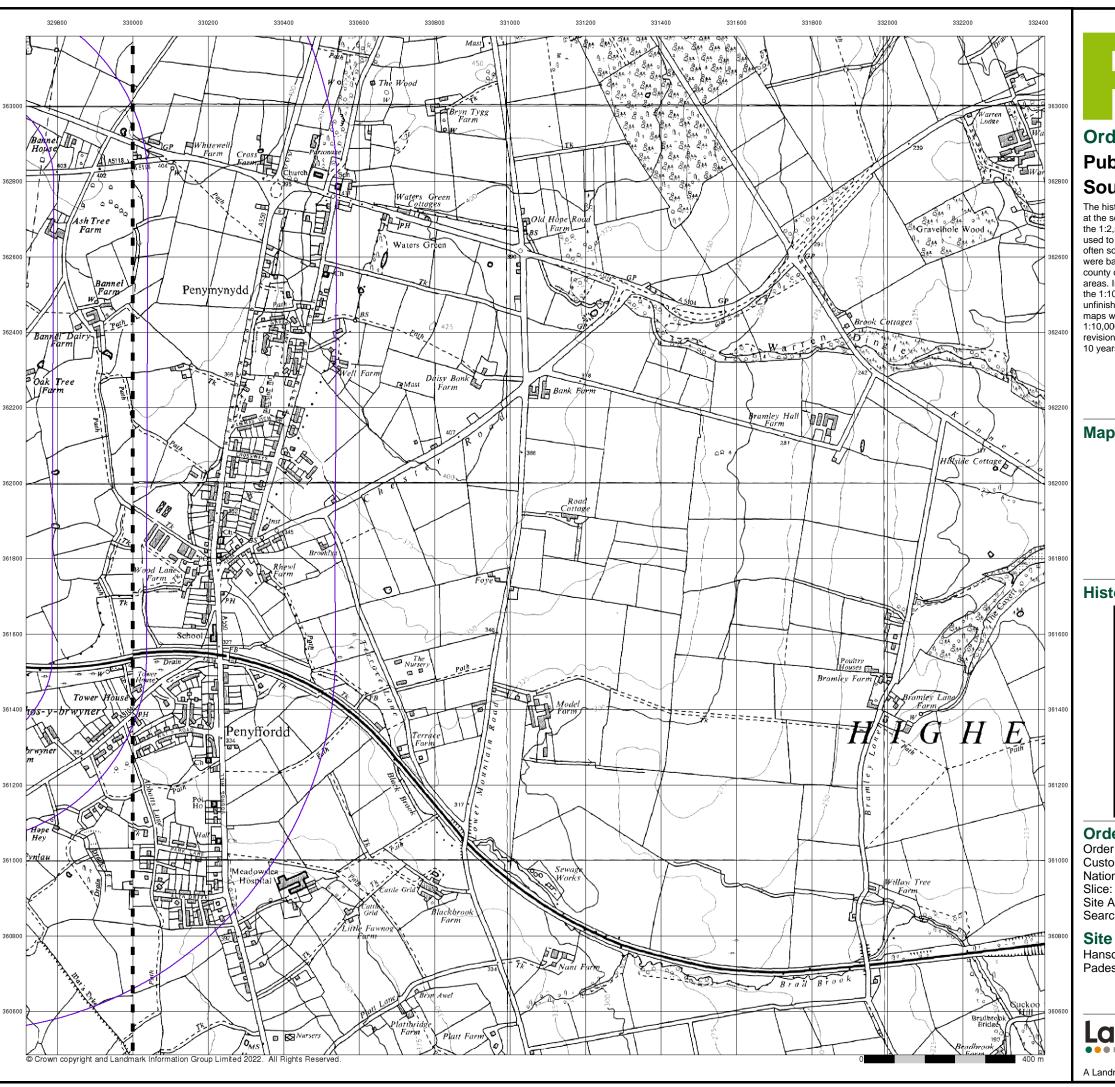
#### **Site Details**

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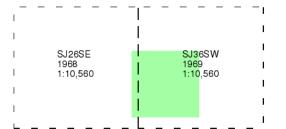


# Ordnance Survey Plan Published 1968 - 1969

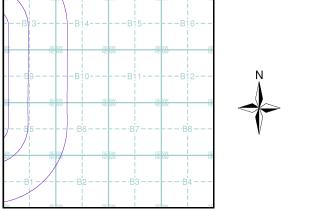
# Source map scale - 1:10,000

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 B**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330100, 361980

Slice:

Site Area (Ha): 71.96 Search Buffer (m): 1000

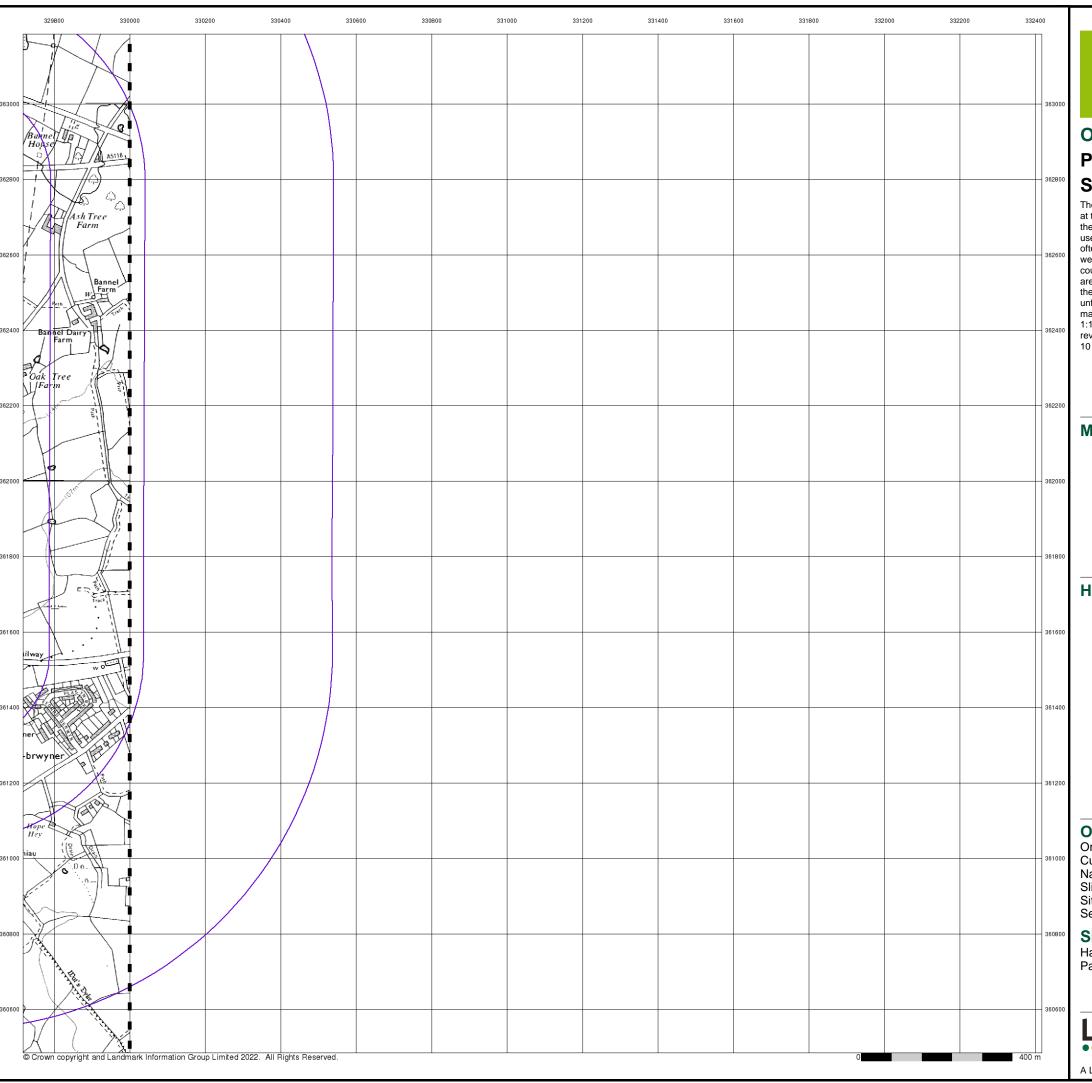
#### **Site Details**

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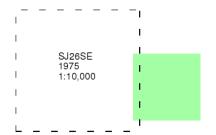


# Published 1975

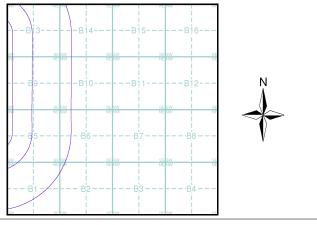
# Source map scale - 1:10,000

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

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



## Historical Map - Slice B



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330100, 361980
Slice: B
Site Area (Ha): 71.96

Search Buffer (m):

### Site Details

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1000



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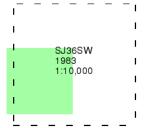


# **Ordnance Survey Plan Published 1983**

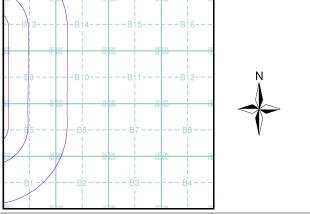
## Source map scale - 1:10,000

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

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



#### **Historical Map - Slice B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980

Site Area (Ha): 71.96 Search Buffer (m): 1000

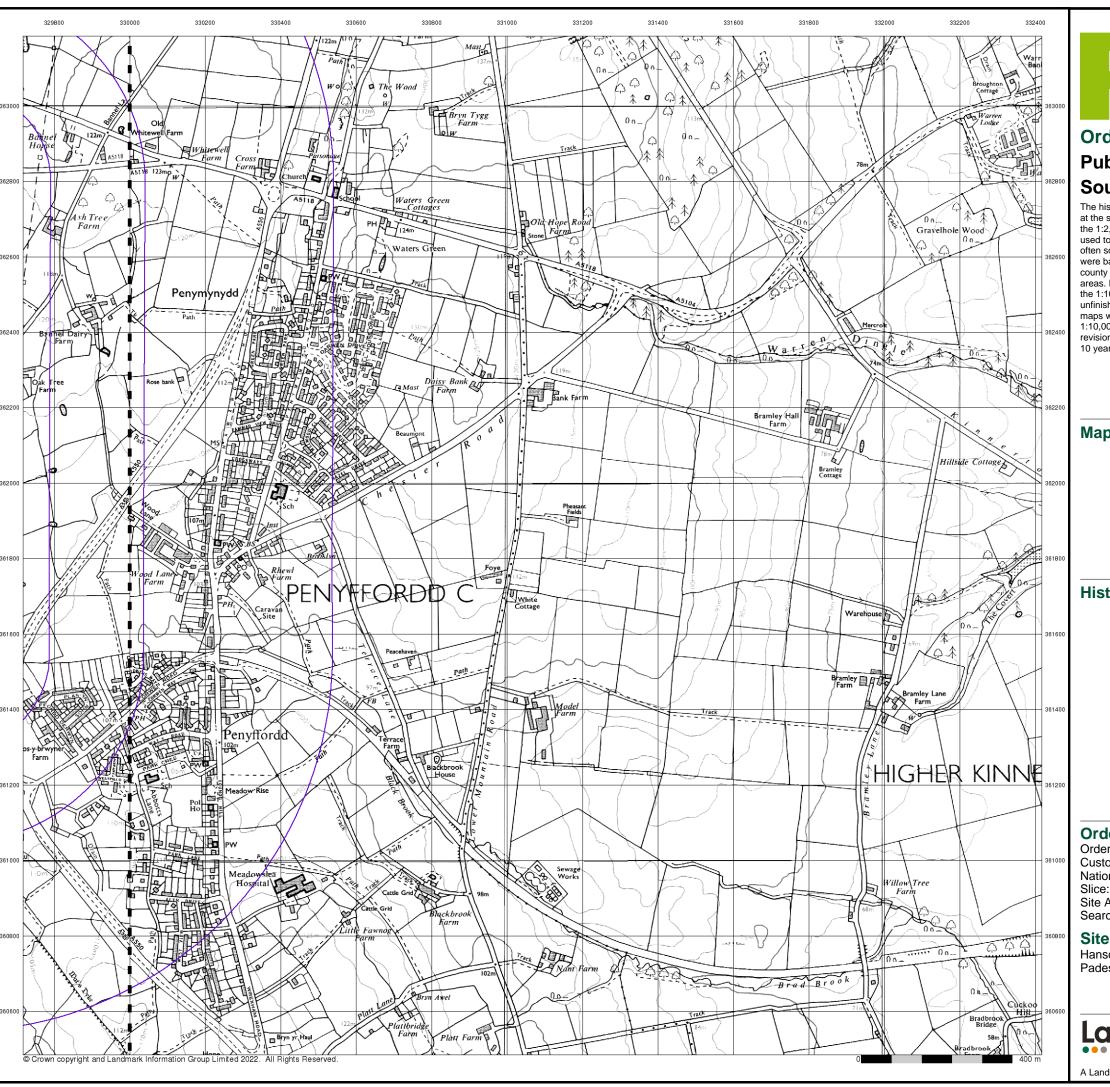
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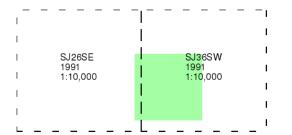


# **Ordnance Survey Plan Published 1991**

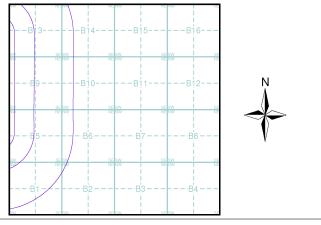
## Source map scale - 1:10,000

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 B**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330100, 361980

В Site Area (Ha): 71.96 Search Buffer (m): 1000

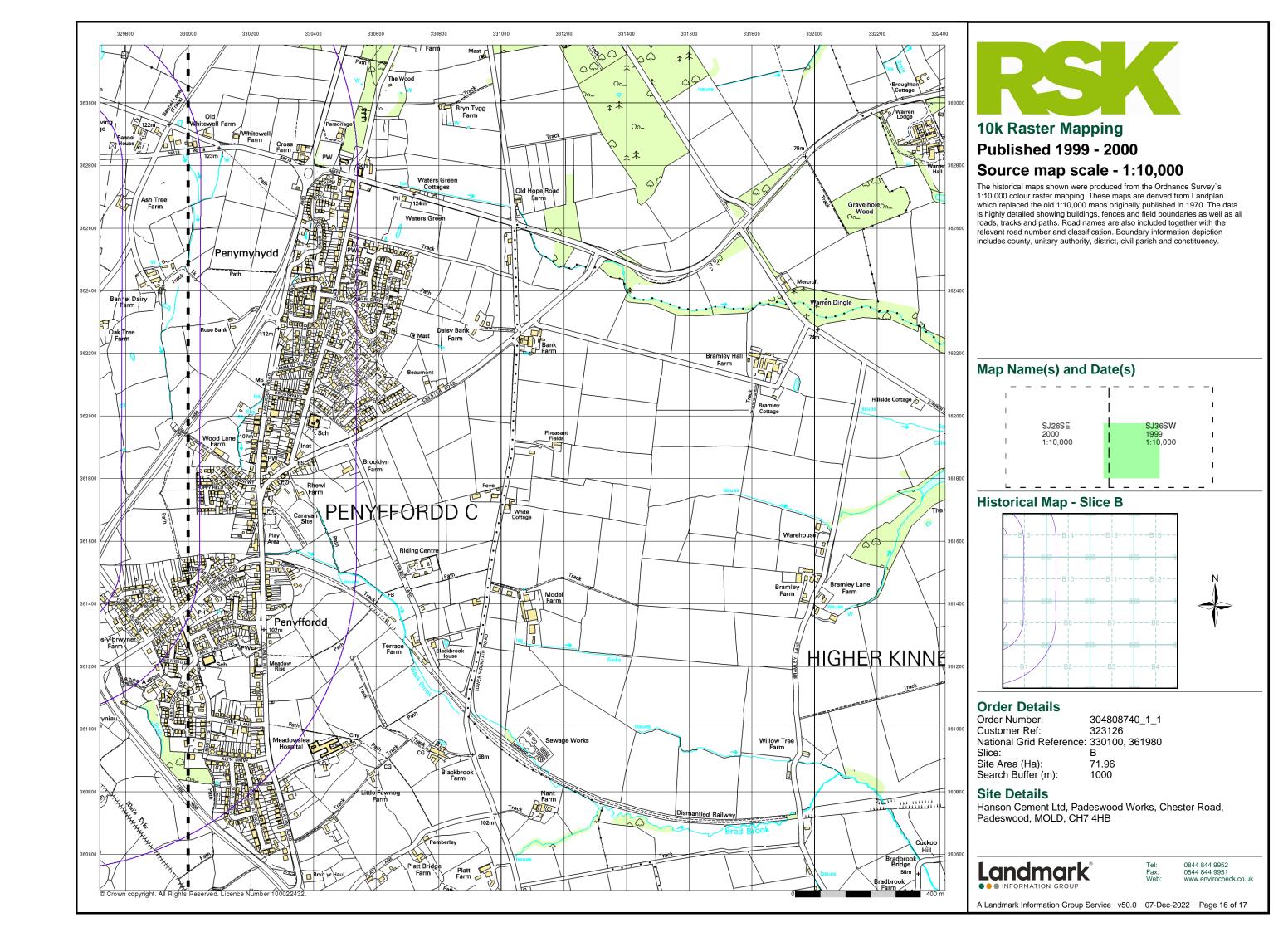
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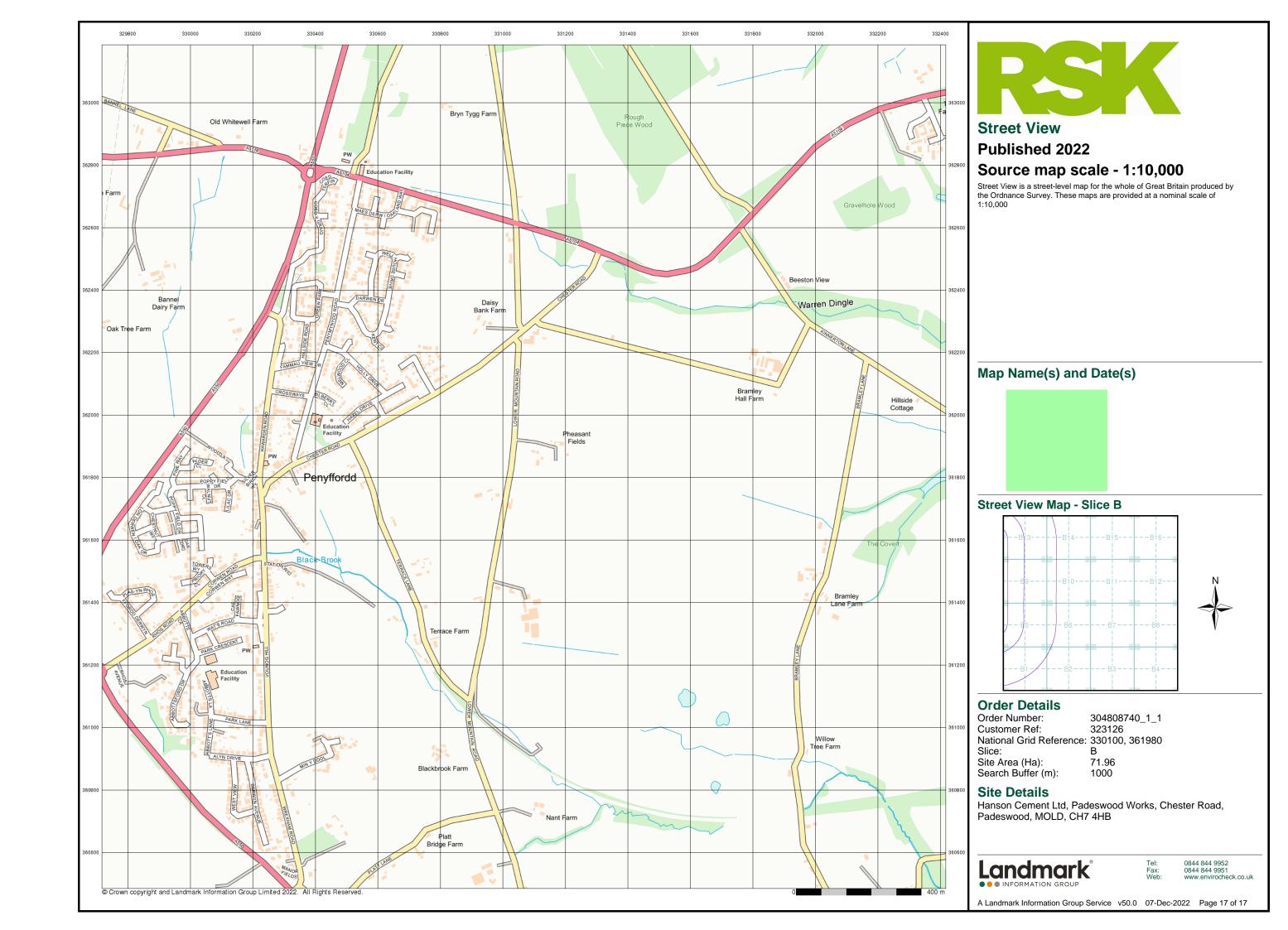
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# **Historical Mapping Legends**

## Gravel Pit Other Orchard Mixed Wood Deciduous Brushwood Furze Rough Pasture Arrow denotes Trigonometrical flow of water Station Site of Antiquities Bench Mark Pump, Guide Post, Well, Spring, Signal Post **Boundary Post** · 285 Surface Level Sketched Instrumental Contour Contour Fenced Main Roads Minor Roads Un-Fenced Raised Road Sunken Road Railway over Road over Railway Ri∨er Railway over Level Crossing Road over Road over Road over County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England) Co. Boro. Bdy. County Burgh Boundary (Scotland) Rural District Boundary

R.D. Bdy.

····· Civil Parish Boundary

**Ordnance Survey County Series 1:10,560** 

### Ordnance Survey Plan 1:10,000

E CHAINS	Chalk Pit, Clay Pit	000000	Gravel Pit
	Sand Pit		、 Disused Pit ✓ or Quarry
(:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0	Refuse or Slag Heap		Lake, Loch or Pond
	. Dunes		Boulders
* * *	Coniferous Trees	6 6	Non-Coniferous Trees
ф ф	Orchard 0 n _	Scrub	∖Y₁v Coppice
ਜ ਜ	Bracken SMIIII	Heath '	、 , , , , Rough Grassland
<u> </u>	MarshV///	Reeds	<u>়-১-</u> Saltings
	Dive	ction of Flow of	18/-4
W. W. W. W.	Building	# C	
	-		Shingle
	>_	**//	Sand
BSS	Glasshouse		
		Pylon	
		-	Electricity
toomto	01 : 14		- Transmission
	Sloping Masonry	Pole	Line
		:-	_
Cutting	Embankm	nent 	Standard Gauge
****			' Multiple Track
	Ц //	\\	, Standard Gauge
Road'''	∏''' Road / Lev	el Foot	Single Track
Under	Over Cross	sing Bridge	Cidina Transcore
			Siding, Tramway or Mineral Line
			Or Willieral Line
<del> </del>	<del></del>	<del></del>	→ Narrow Gauge
	Geographical Co	ounty	
	Administrative C or County of City		Borough
	Municipal Borou Burgh or District	Council	,
	Borough, Burgh Shown only when n		
	Civil Parish Shown alternately v	when coincidence	of boundaries occurs
BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch 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	тсв	Telephone Call Box

Mile Post

TCP

Telephone Call Post

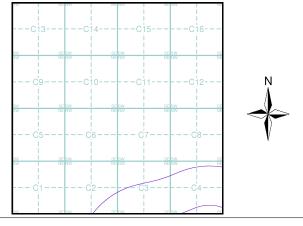
## 1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock	3 3 3	Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
*********	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railwa <u>y</u>
	Multi-track railway		Single track railway
-•-•	County boundary (England only)	• • • • • •	Ci∨il, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
۵ ⁰	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
$\Box$	Non-coniferous trees (scattered)	** **	Coniferous trees
<b>*</b>	Coniferous trees (scattered)	Ċ	Positioned tree
ፉ	Orchard	* *	Coppice or Osiers
affr,	Rough Grassland	www.	Heath
On_	Scrub	7 <u>√</u> /۲	Marsh, Salt Marsh or Reeds
5	Water feature	<b>←</b>	Flow arrows
MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs)
<b></b>	Telephone line (where shown)	<b></b>	Electricity transmission line (with poles)
← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)	$\boxtimes$	Pylon, flare stac or lighting tower
•‡•	Site of (antiquity)		Glasshouse
	General Building		Important Building

### **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1871	2
Flintshire	1:10,560	1881	3
Flintshire	1:10,560	1900	4
Flintshire	1:10,560	1914	5
Flintshire	1:10,560	1938	6
Flintshire	1:10,560	1954	7
Ordnance Survey Plan	1:10,000	1963 - 1964	8
Ordnance Survey Plan	1:10,000	1968	9
Ordnance Survey Plan	1:10,000	1970 - 1975	10
Ordnance Survey Plan	1:10,000	1982	11
Ordnance Survey Plan	1:10,000	1988	12
Ordnance Survey Plan	1:10,000	1991 - 1992	13
10K Raster Mapping	1:10,000	2000	14
Street View	Variable		15

## **Historical Map - Slice C**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 329060, 363430 Slice: С

Site Area (Ha): 71.96 Search Buffer (m): 1000

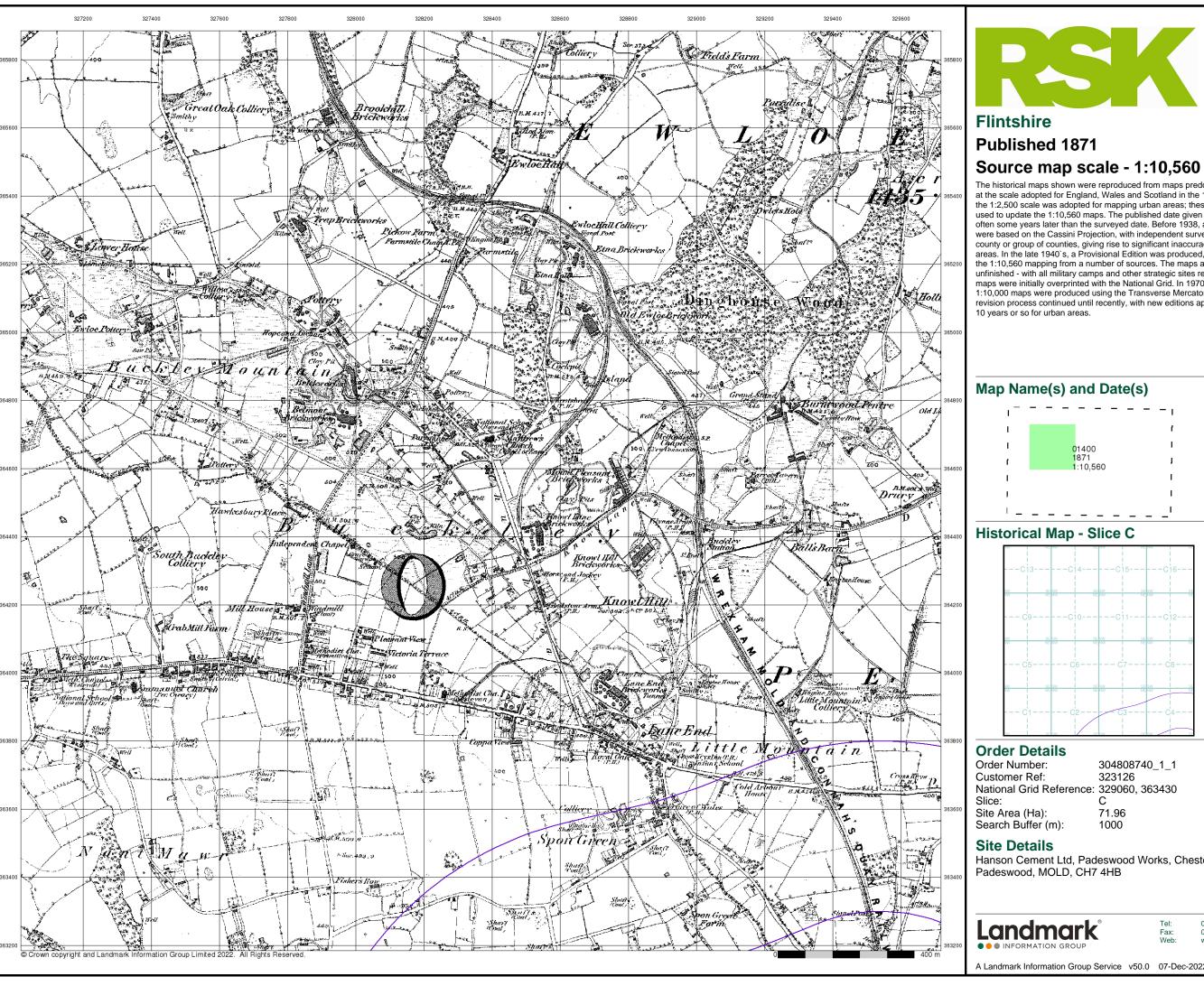
### **Site Details**

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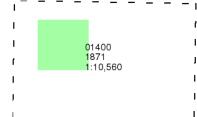
0844 844 9952

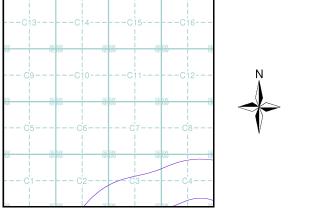
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

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





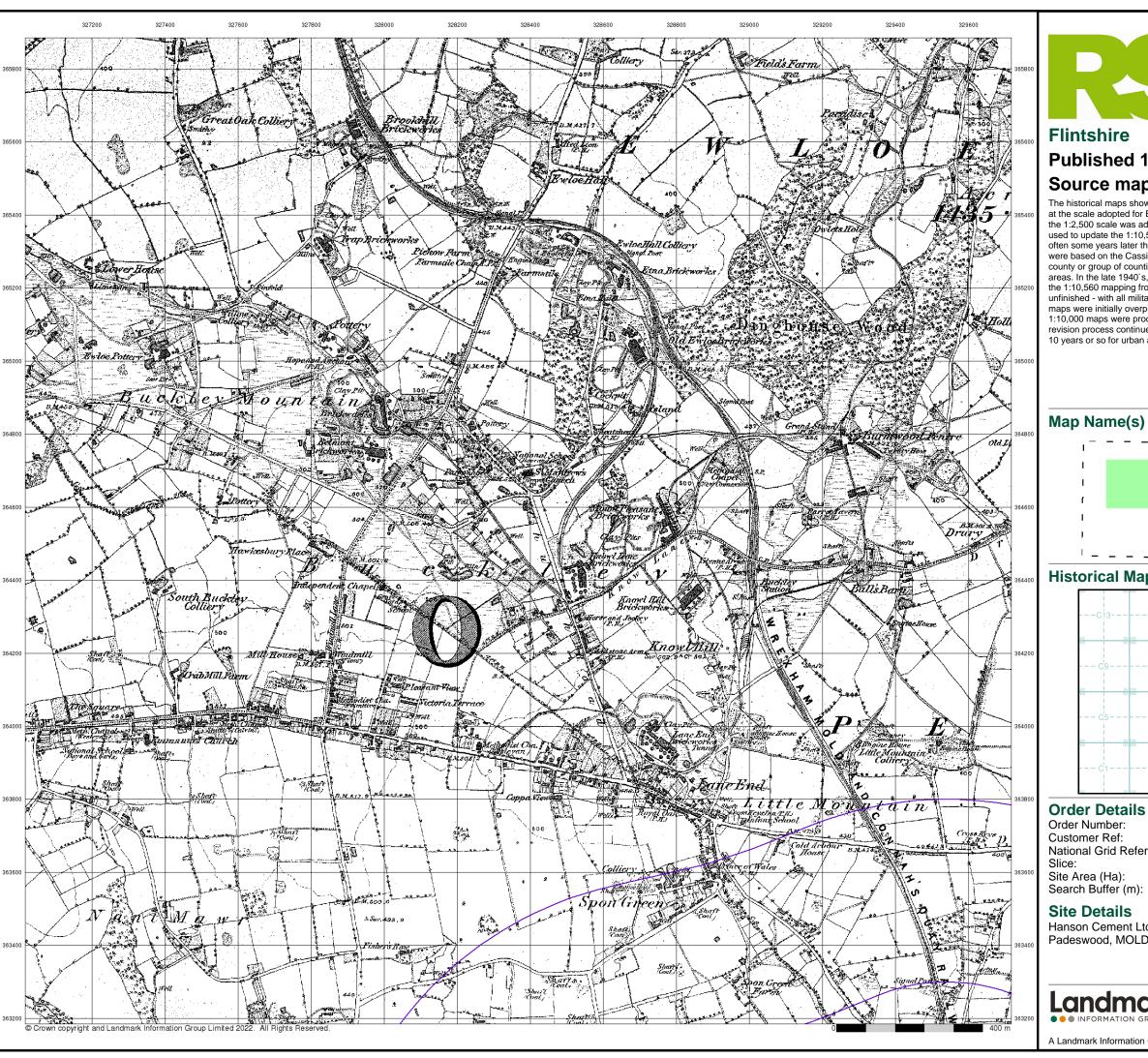
304808740_1_1 323126 National Grid Reference: 329060, 363430

71.96 1000

Hanson Cement Ltd, Padeswood Works, Chester Road,

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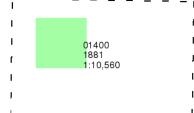


# **Published 1881**

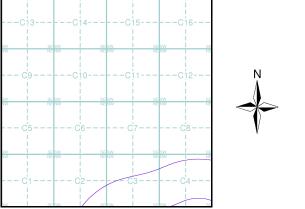
# Source map scale - 1:10,560

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



#### **Historical Map - Slice C**



304808740_1_1 323126 National Grid Reference: 329060, 363430

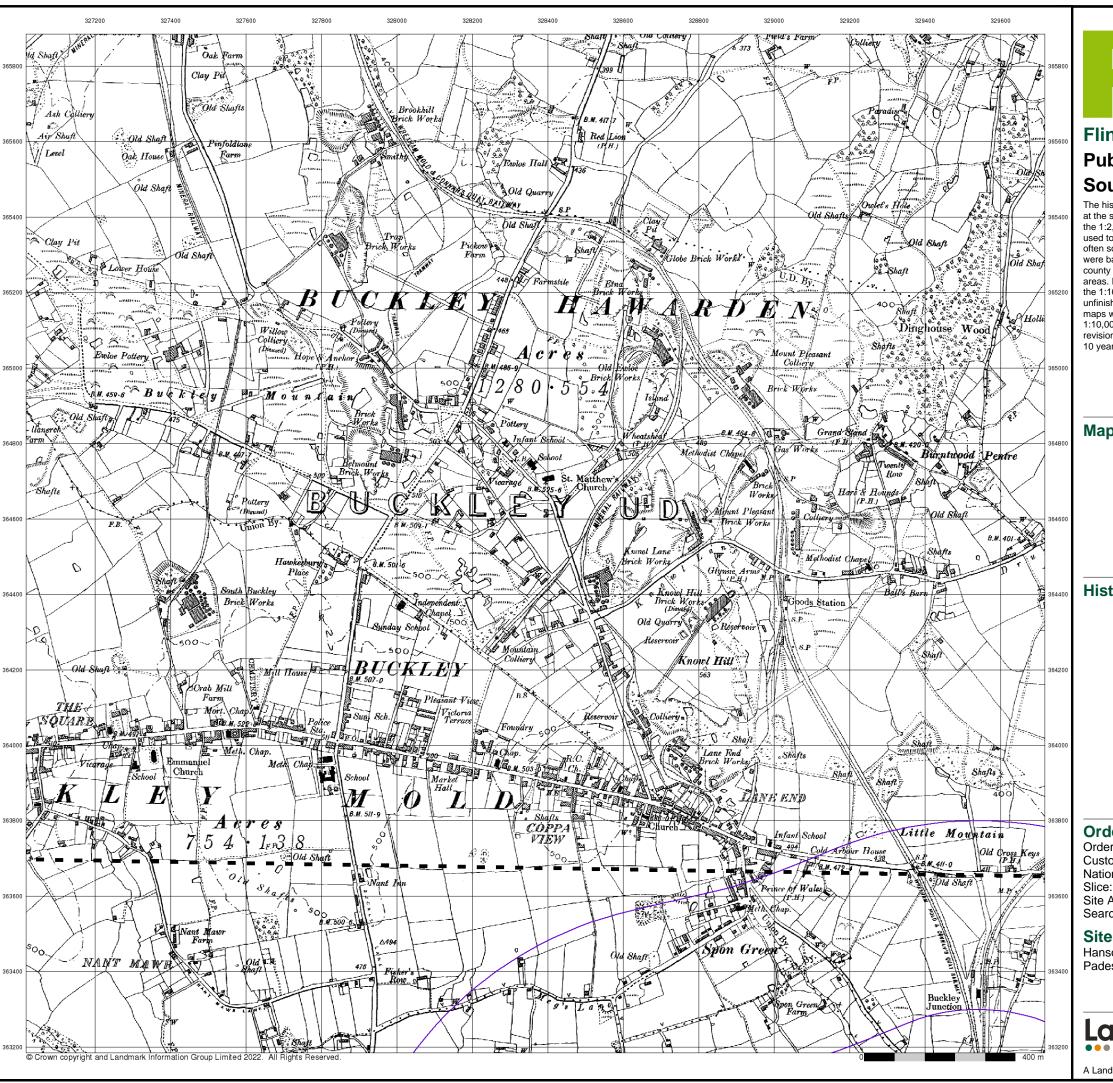
71.96 1000

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Landmark

0844 844 9952

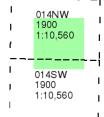
A Landmark Information Group Service v50.0 07-Dec-2022 Page 3 of 15



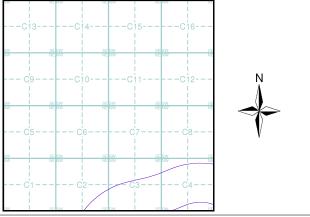
# **Published 1900** Source map scale - 1:10,560

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 C**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 329060, 363430 С

Site Area (Ha):

71.96 Search Buffer (m): 1000

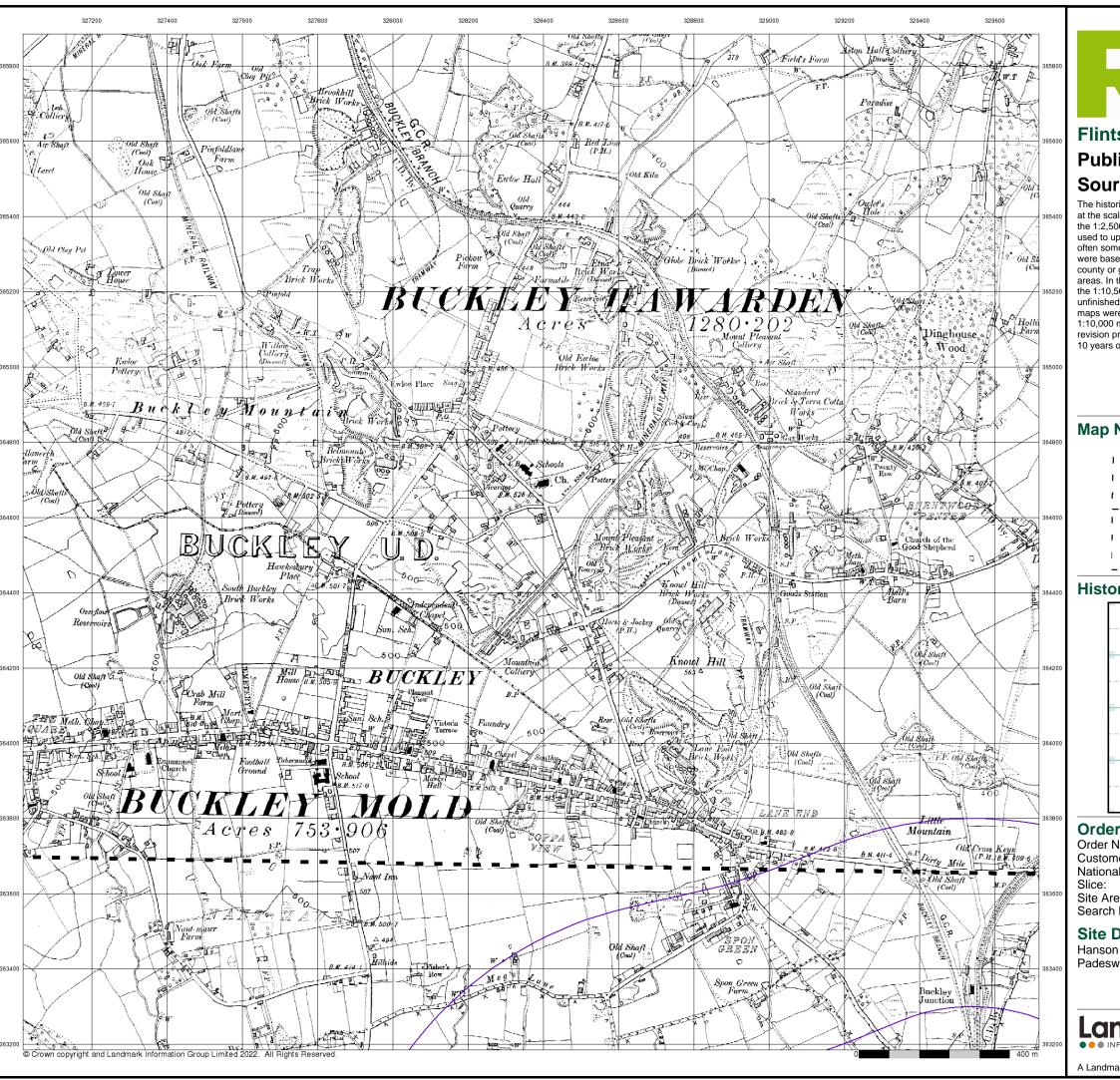
#### **Site Details**

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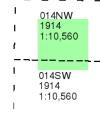


# **Published 1914**

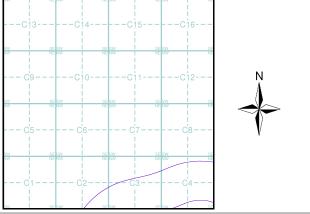
# Source map scale - 1:10,560

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#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 329060, 363430

С

Site Area (Ha): 71.96 Search Buffer (m): 1000

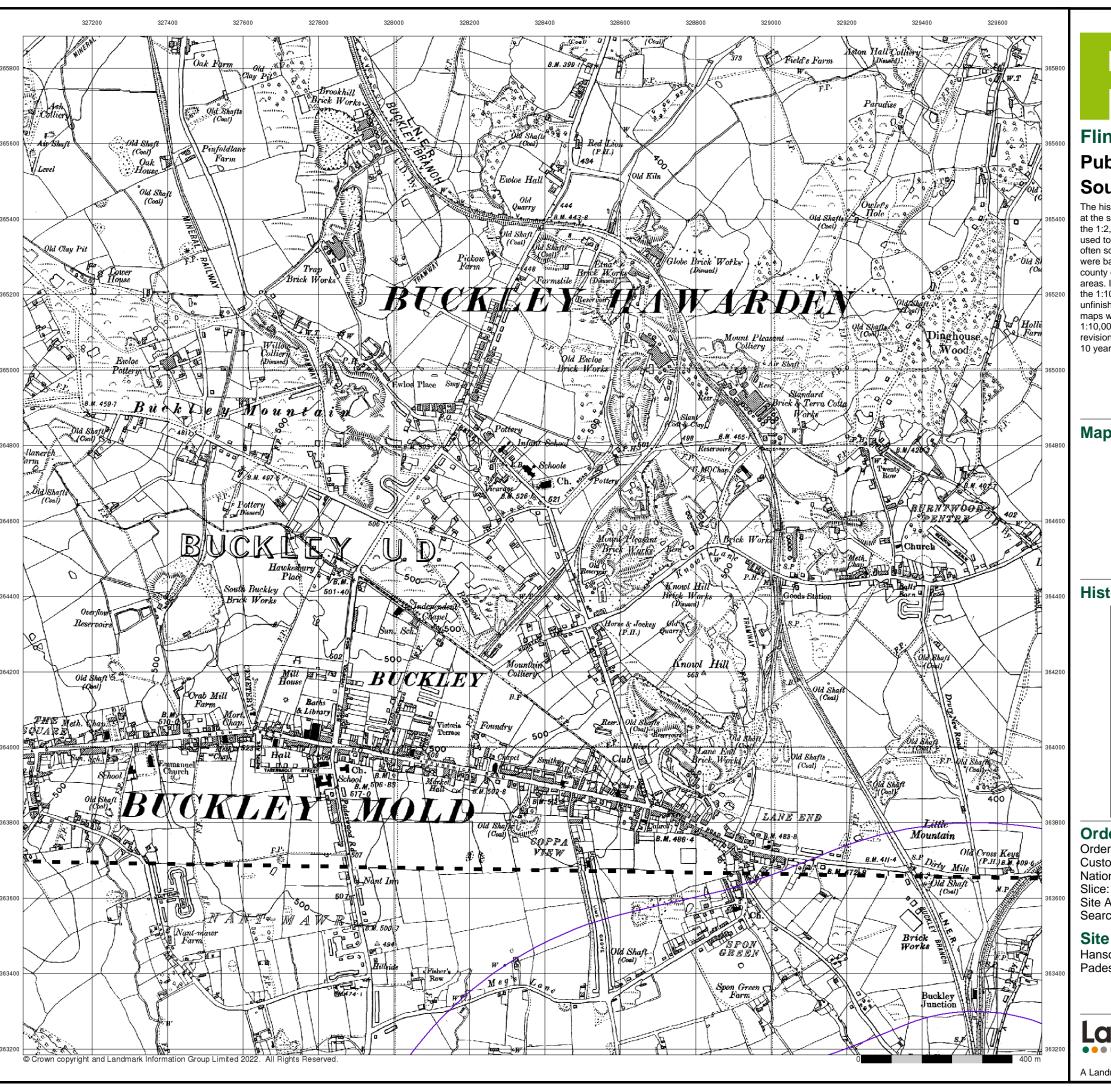
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 07-Dec-2022 Page 5 of 15



# RSK

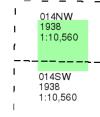
#### **Flintshire**

# Published 1938

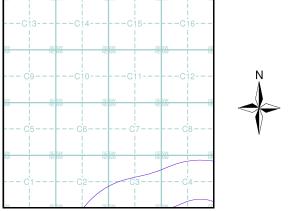
## Source map scale - 1:10,560

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 C**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 329060, 363430

Site Area (Ha): 71.96 Search Buffer (m): 1000

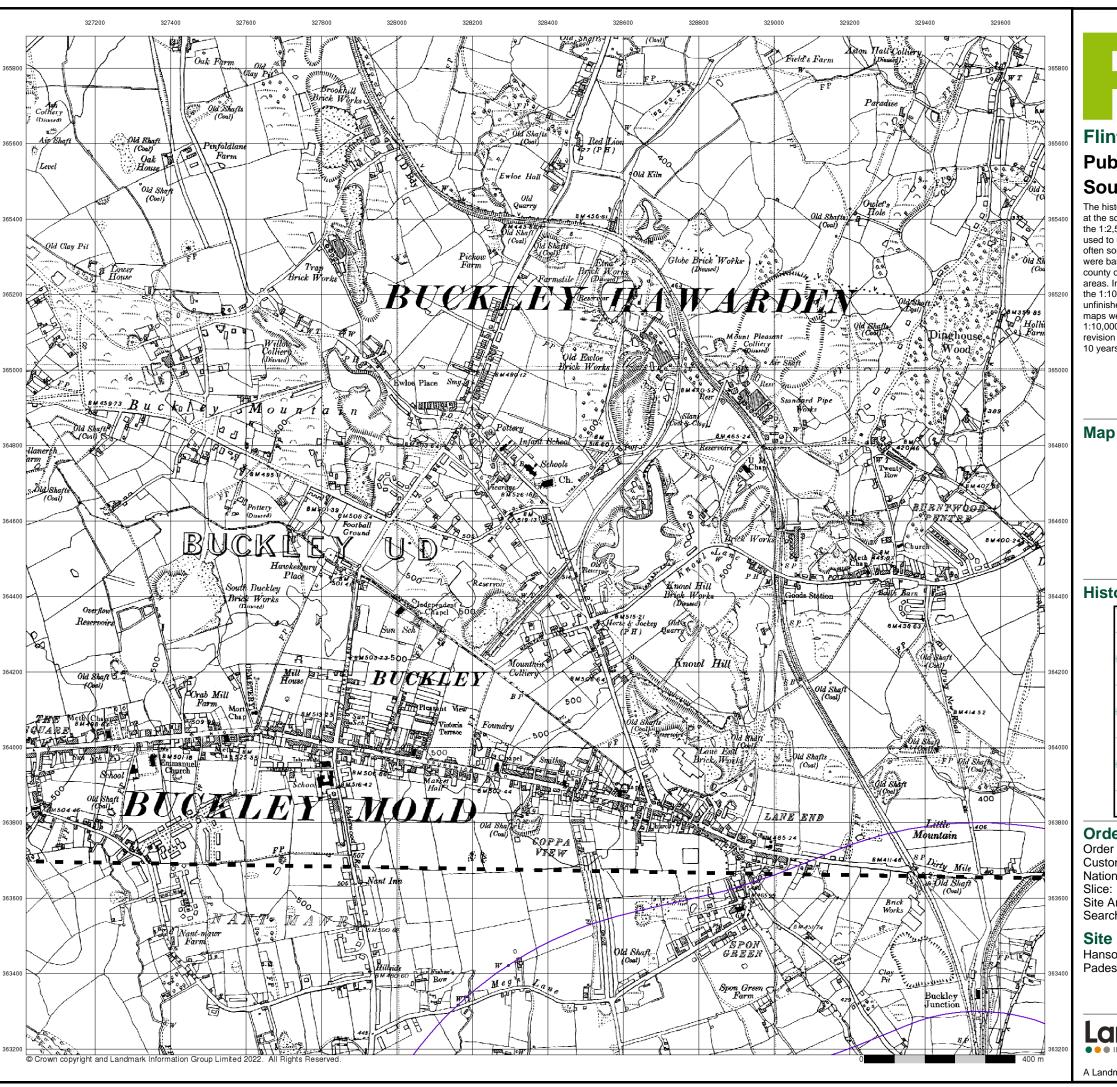
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

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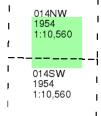
A Landmark Information Group Service v50.0 07-Dec-2022 Page 6 of 15



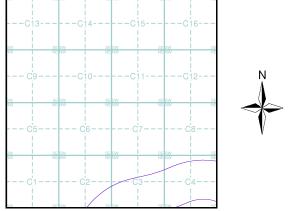
# **Published 1954** Source map scale - 1:10,560

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 C**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 329060, 363430 С

Site Area (Ha): 71.96 Search Buffer (m): 1000

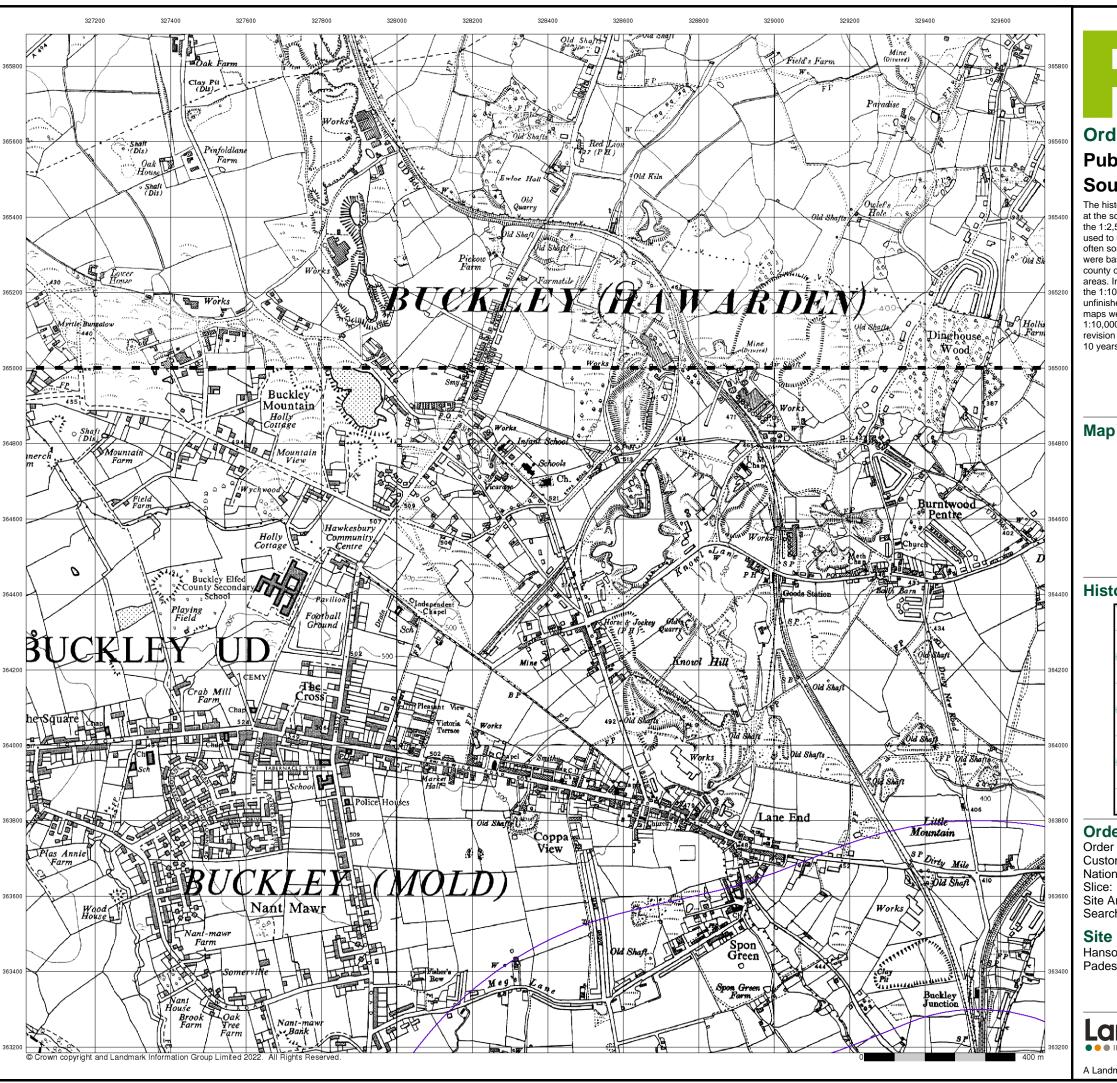
#### **Site Details**

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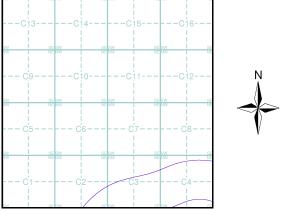
# Published 1963 - 1964 Source map scale - 1:10,000

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 C**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 329060, 363430

Site Area (Ha): Search Buffer (m): 71.96 1000

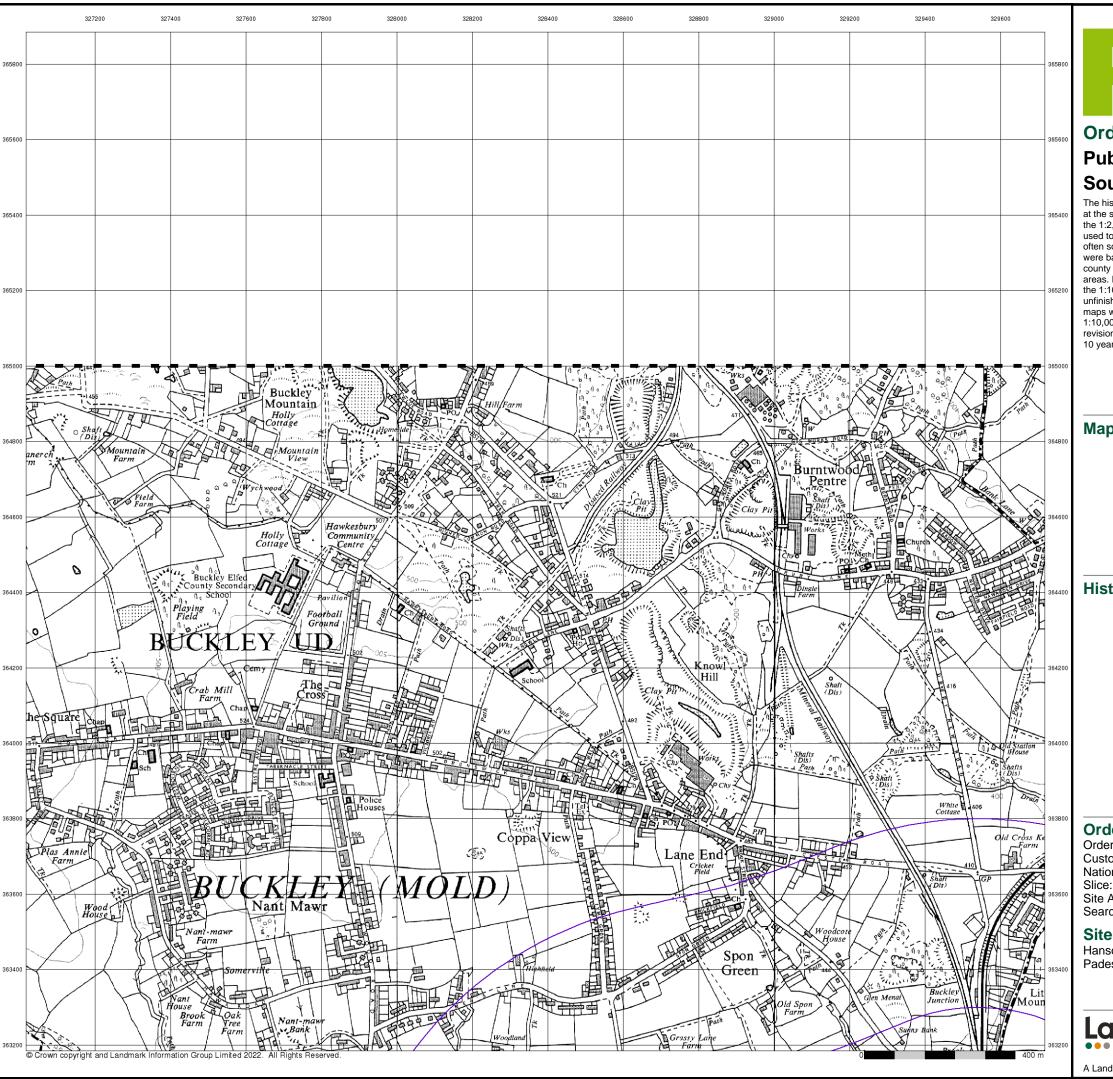
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 8 of 15



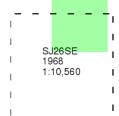


# **Published 1968**

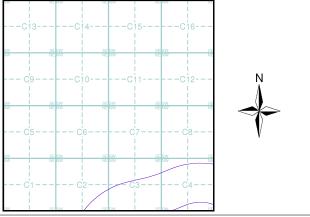
# Source map scale - 1:10,000

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 C**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 329060, 363430

Site Area (Ha): Search Buffer (m): 71.96 1000

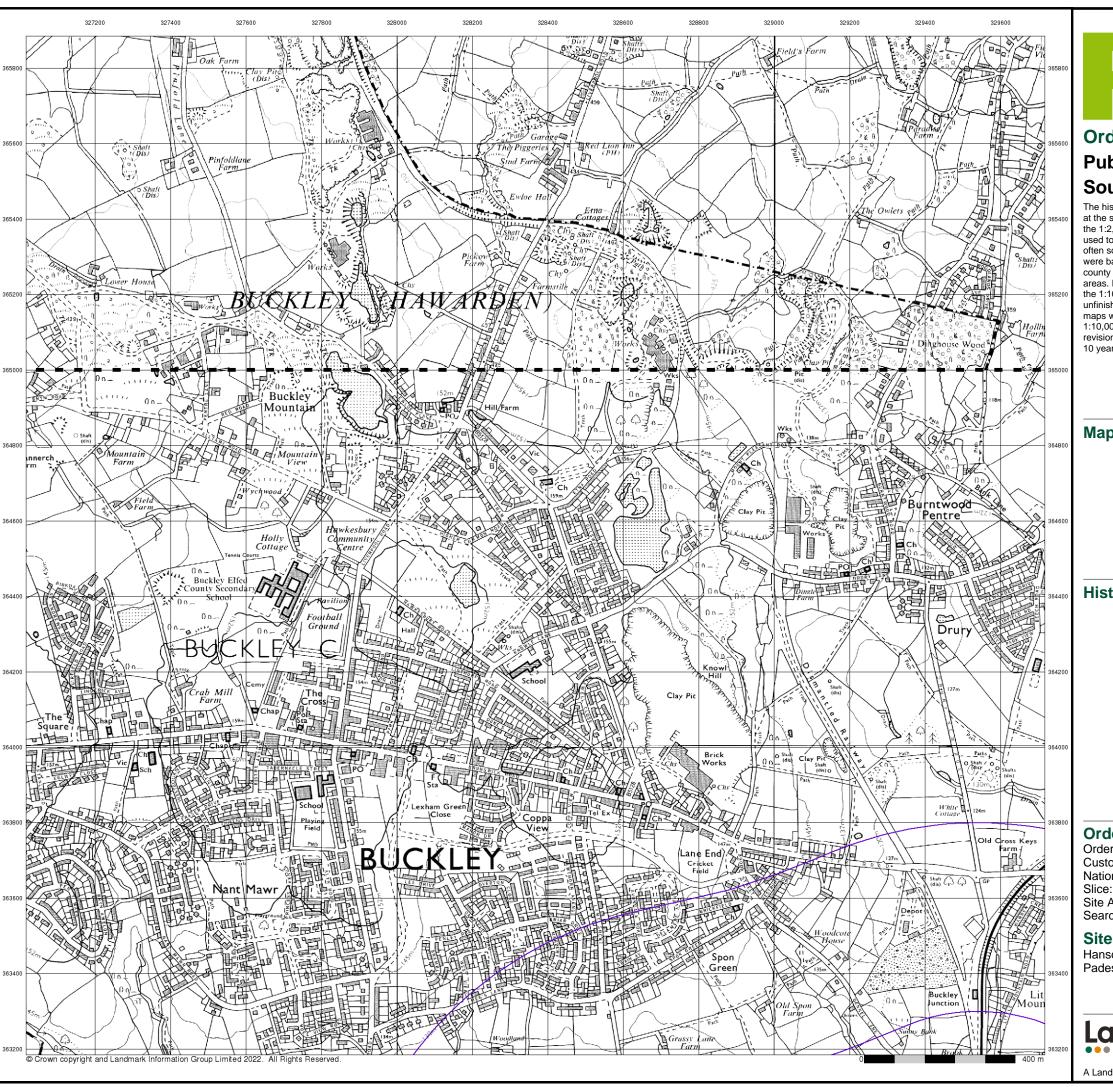
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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A Landmark Information Group Service v50.0 07-Dec-2022 Page 9 of 15





# **Ordnance Survey Plan Published 1970 - 1975**

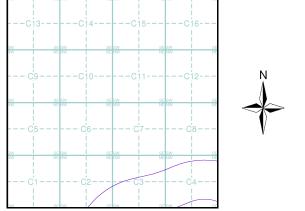
Source map scale - 1:10,000

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

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



#### **Historical Map - Slice C**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 329060, 363430

Site Area (Ha): Search Buffer (m): 71.96 1000

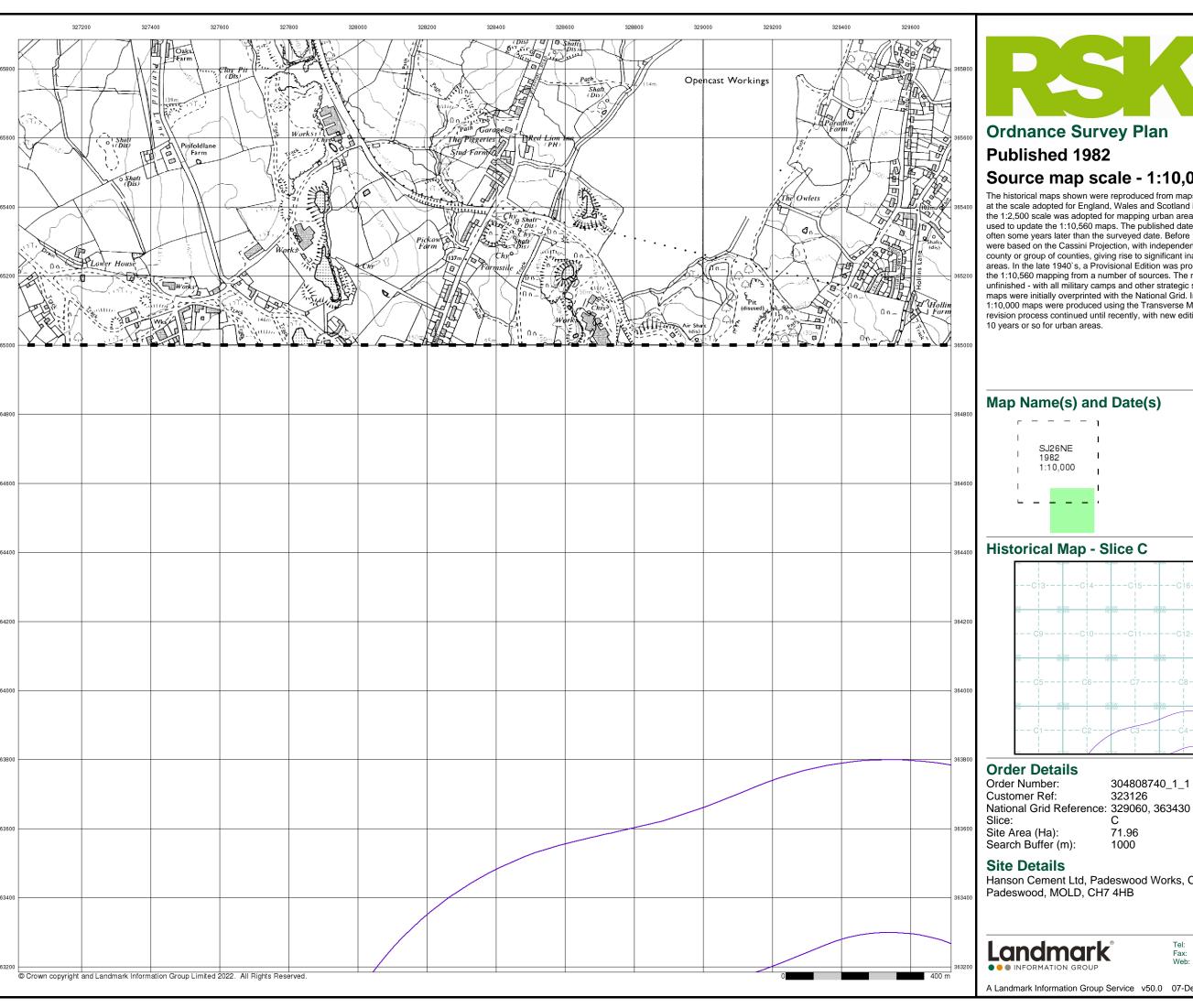
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 10 of 15



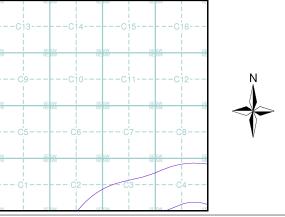
# Published 1982

# Source map scale - 1:10,000

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

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

#### **Historical Map - Slice C**



304808740_1_1 323126

С

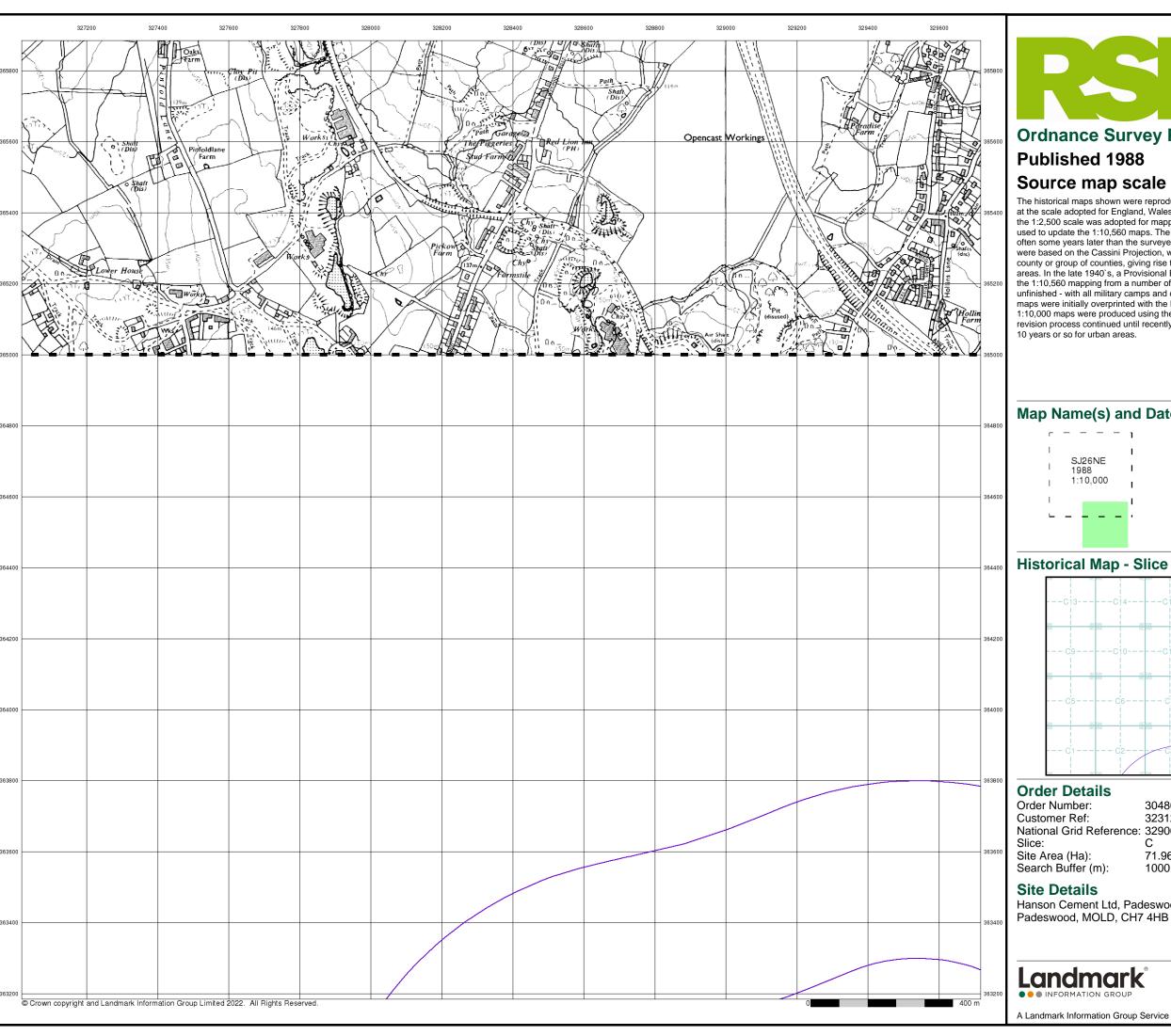
71.96 1000

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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A Landmark Information Group Service v50.0 07-Dec-2022 Page 11 of 15



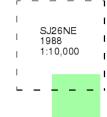


# **Published 1988**

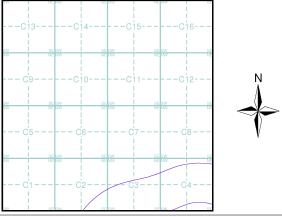
## Source map scale - 1:10,000

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 C**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 329060, 363430

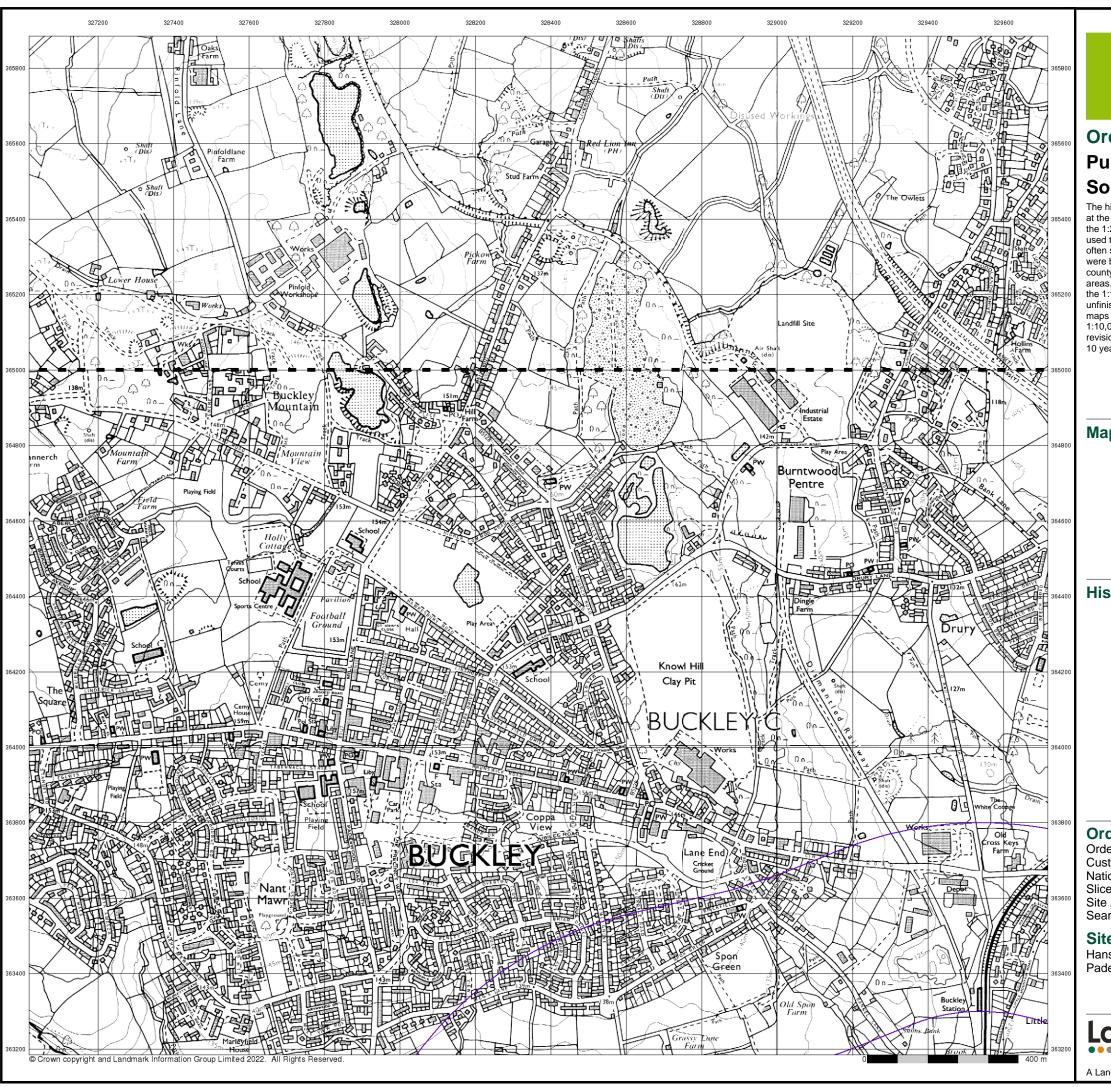
С 71.96 1000

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Landmark

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A Landmark Information Group Service v50.0 07-Dec-2022 Page 12 of 15



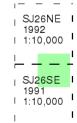
# RSK

# Ordnance Survey Plan Published 1991 - 1992

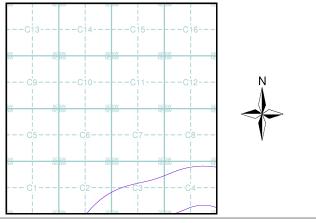
# Source map scale - 1:10,000

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

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



#### **Historical Map - Slice C**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 329060, 363430
Slice: C

Site Area (Ha): 71.96 Search Buffer (m): 1000

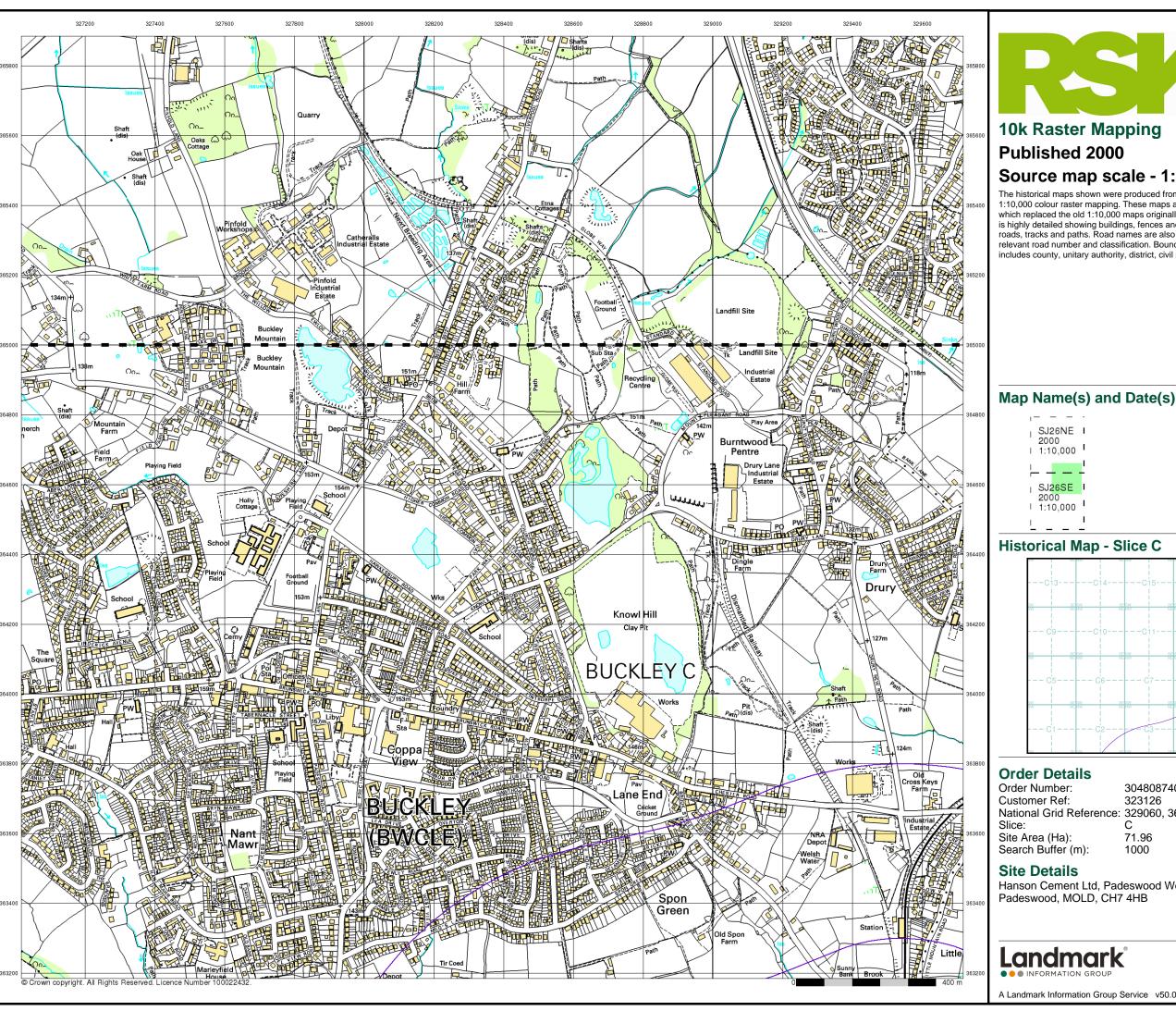
#### **Site Details**

Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



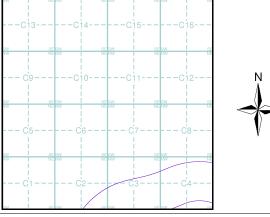
Tel: 0844 844 9952 Fax: 0844 844 9951 Web: www.envirocheck

A Landmark Information Group Service v50.0 07-Dec-2022 Page 13 of 15



# 10k Raster Mapping 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.



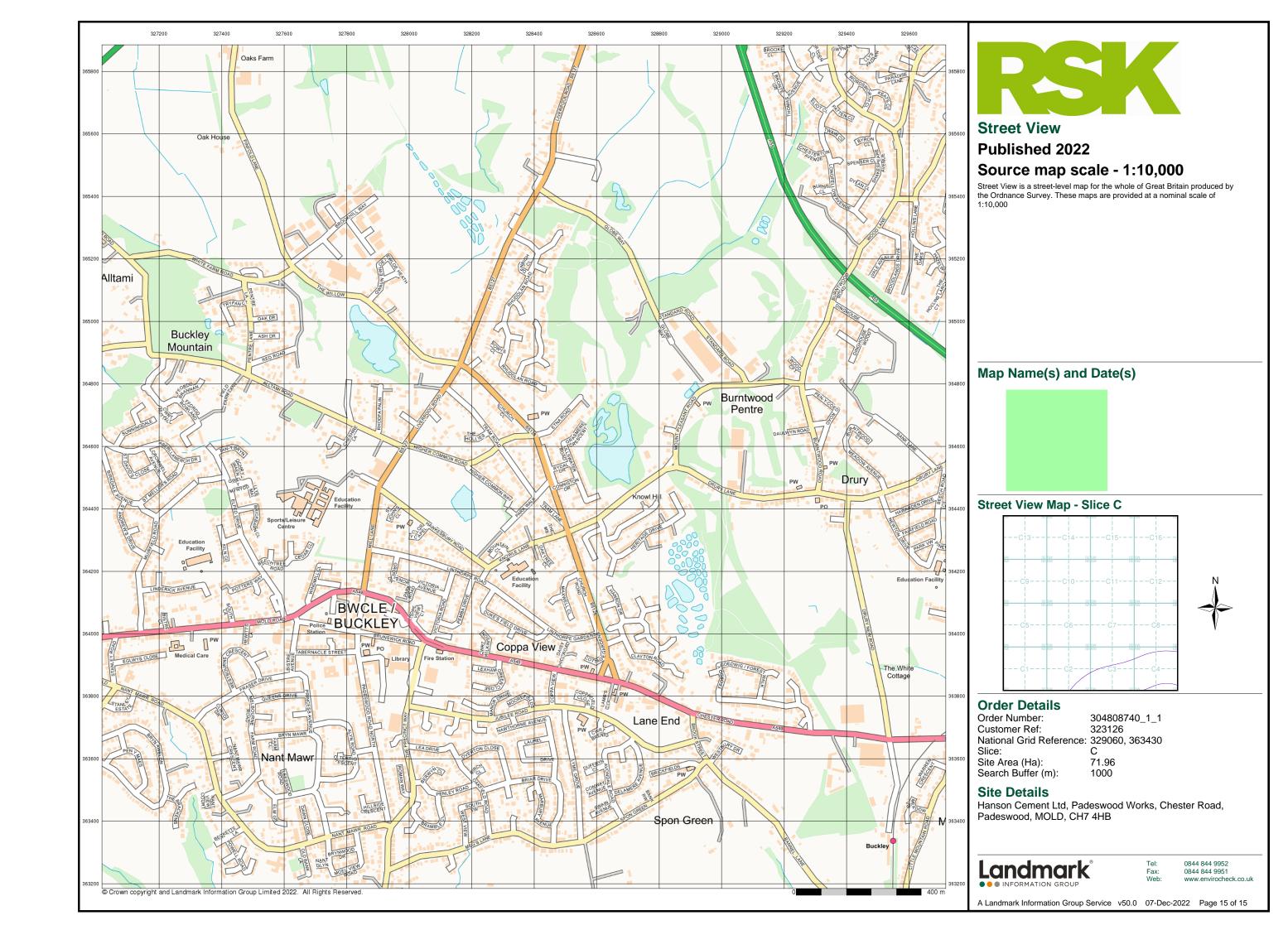
304808740_1_1 323126 National Grid Reference: 329060, 363430

71.96 1000

Hanson Cement Ltd, Padeswood Works, Chester Road,

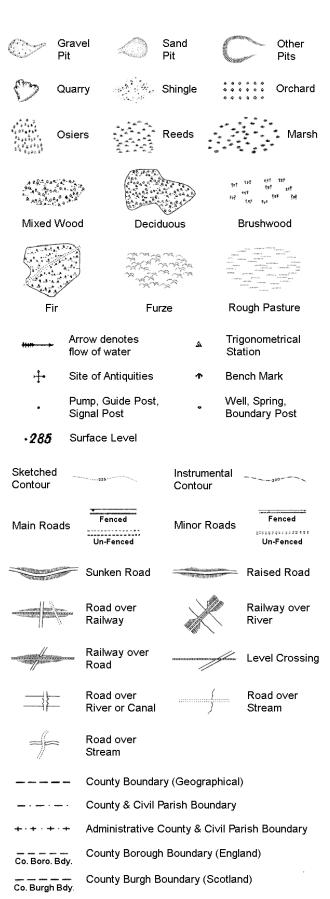
0844 844 9952

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# **Historical Mapping Legends**

# **Ordnance Survey County Series 1:10,560**



Rural District Boundary

····· Civil Parish Boundary

R.D. Bdy.

#### Ordnance Survey Plan 1:10,000

لإسسا	Chalk Pit, Clay Pit or Quarry	000000	Gravel Pit		
	Sand Pit	(	Disused Pit or Quarry		
(	Refuse or Slag Heap	<b>((()</b>	Lake, Loch or Pond		
	. Dunes	000	Boulders		
<b>* * *</b>	Coniferous Trees	۵۵۵	Non-Coniferous Trees		
ቀ ቀ	Orchard no	Scrub	∖Y₁v Coppice		
ជ ជ	Bracken	Heath	、、ı,,,Rough Grasslar		
<u> </u>	- Marsh 、、、V///	Reeds	<u>→</u> ±≠ Saltings		
Mersia.		tion of Flow of	f Water		
	Building		Shingle		
ष्ट्रज	Classbaues	**//	Sand		
	Glasshouse	Pylon			
	Sloping Masonry	Pole	<ul><li>Electricity</li><li>Transmission</li><li>Line</li></ul>		
Cutting	j Embankm	ent 	Standard Gaug		
			" Multiple Track		
Road ' Under	⊔ ''∏''' Road Leve Over Cross	ina Drida	Standard Gaug Single Track		
			Siding, Tramwa or Mineral Line		
			→ Narrow Gauge		
	Geographical Co	unty			
	— Administrative Co		Borough		
	Municipal Boroug Burgh or District		tural District,		
	Borough, Burgh Shown only when no				
	— — Civil Parish Shown alternately w	hen coincidence	of boundaries occurs		
BP, BS	Boundary Post or Stone	Pol Sta	Police Station		
Ch	Church	PO	Post Office		
СН	Club House	PC	Public Convenience		
F E Sta	Fire Engine Station	PH	Public House		
FB Fn	Foot Bridge Fountain	SB Spr	Signal Box		
Fn GP	Fountain Guide Post	Spr TCB	Spring Telephone Call Box		
MD	Mile Post	TCB	Telephone Call Box		

TCP

Telephone Call Post

Mile Post

# 1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock	3 3	Rock (scattered)
	Boulders	0 0	Boulders (scattered)
	Shingle	Mud	Mud
Sand	Sand		Sand Pit
mm	Slopes		Top of cliff
	General detail		Underground detail
	- Overhead detail	<del></del>	Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)	• • • • •	Ci∨il, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
۵ ⁰	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
$\Diamond$	Non-coniferous trees (scattered)	**	Coniferous trees
*	Coniferous trees (scattered)	Ö	Positioned tree
수 수	***	*	Coppice
<b>\$ \$</b>	Orchard	¥ "	or Osiers
ф ф «Пи «Пи	Orchard Rough Grassland	Willin Willin	
wīT _t ,	Rough	Mi saaliin	or Osiers
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rough Grassland	₩	or Osiers  Heath  Marsh, Salt
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rough Grassland Scrub	₩	or Osiers Heath Marsh, Salt Marsh or Reeds
00_ On_	Rough Grassland Scrub Water feature Mean high	₩	or Ösiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low
00_ On_	Rough Grassland Scrub Water feature Mean high water (springs) Telephone line	₩	or Osiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line
∩∩_ ∩∩_ ∩∩_ MHW(S)	Rough Grassland  Scrub  Water feature  Mean high water (springs)  Telephone line (where shown)  Bench mark	M	or Osiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line (with poles)  Triangulation
∩∩_ ∩∩_ ∩∩_ MHW(S)	Rough Grassland  Scrub  Water feature  Mean high water (springs)  Telephone line (where shown)  Bench mark (where shown)  Point feature (e.g. Guide Post	MLW(S)	or Osiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line (with poles)  Triangulation station  Pylon, flare state

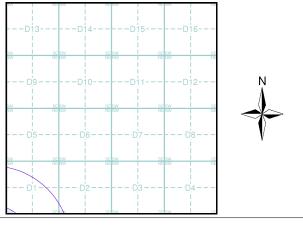
General Building

Building

#### **Historical Mapping & Photography included:**

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1871	2
Flintshire	1:10,560	1881	3
Cheshire	1:10,560	1900	4
Flintshire	1:10,560	1900	5
Cheshire	1:10,560	1914	6
Flintshire	1:10,560	1914	7
Flintshire	1:10,560	1938	8
Flintshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1954	10
Ordnance Survey Plan	1:10,000	1963 - 1966	11
Ordnance Survey Plan	1:10,000	1967 - 1969	12
Ordnance Survey Plan	1:10,000	1969	13
Ordnance Survey Plan	1:10,000	1970 - 1978	14
Ordnance Survey Plan	1:10,000	1982 - 1983	15
Ordnance Survey Plan	1:10,000	1988	16
Ordnance Survey Plan	1:10,000	1991 - 1992	17
10K Raster Mapping	1:10,000	1999 - 2000	18
Street View	Variable		19

#### **Historical Map - Slice D**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 330010, 363420 Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

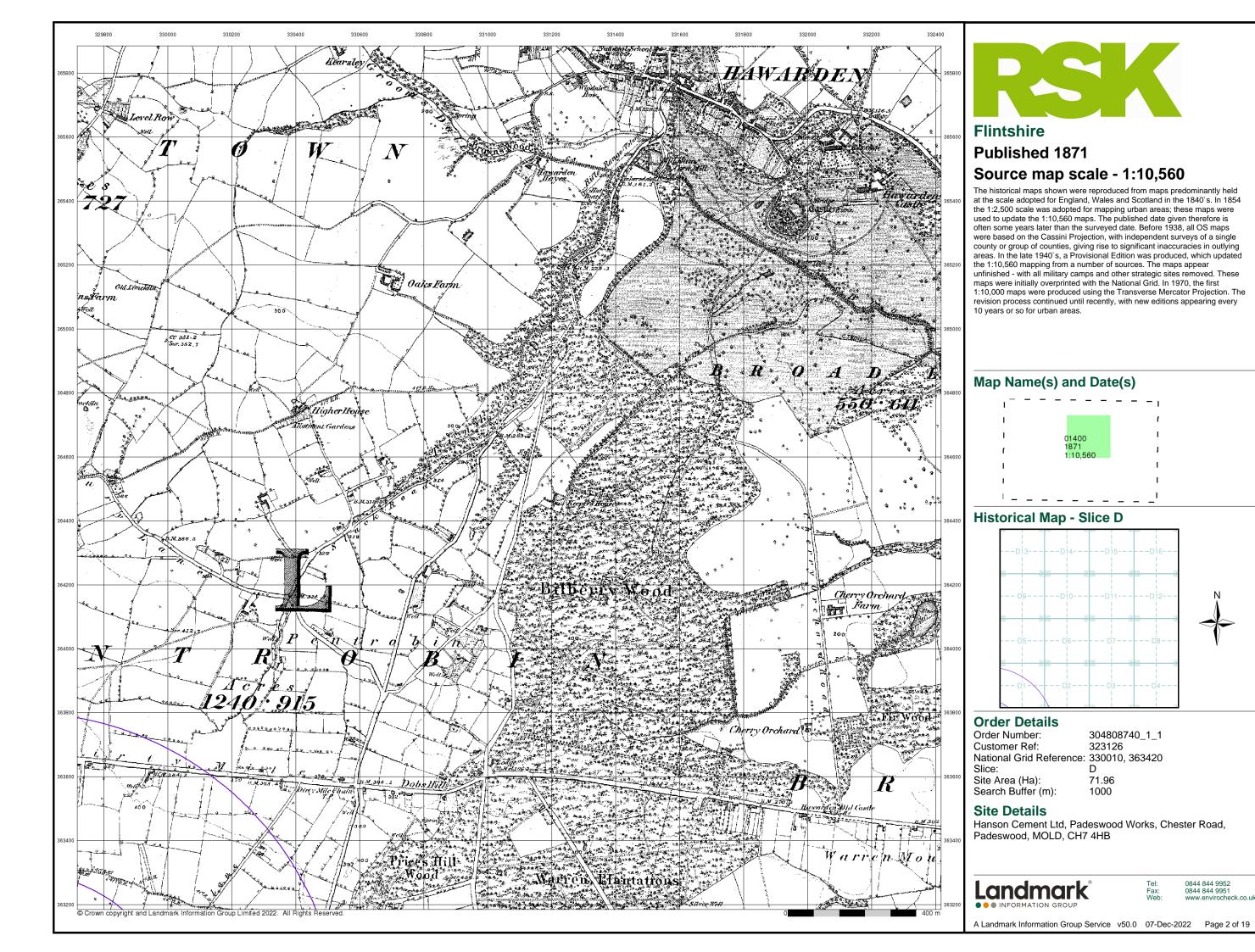
#### **Site Details**

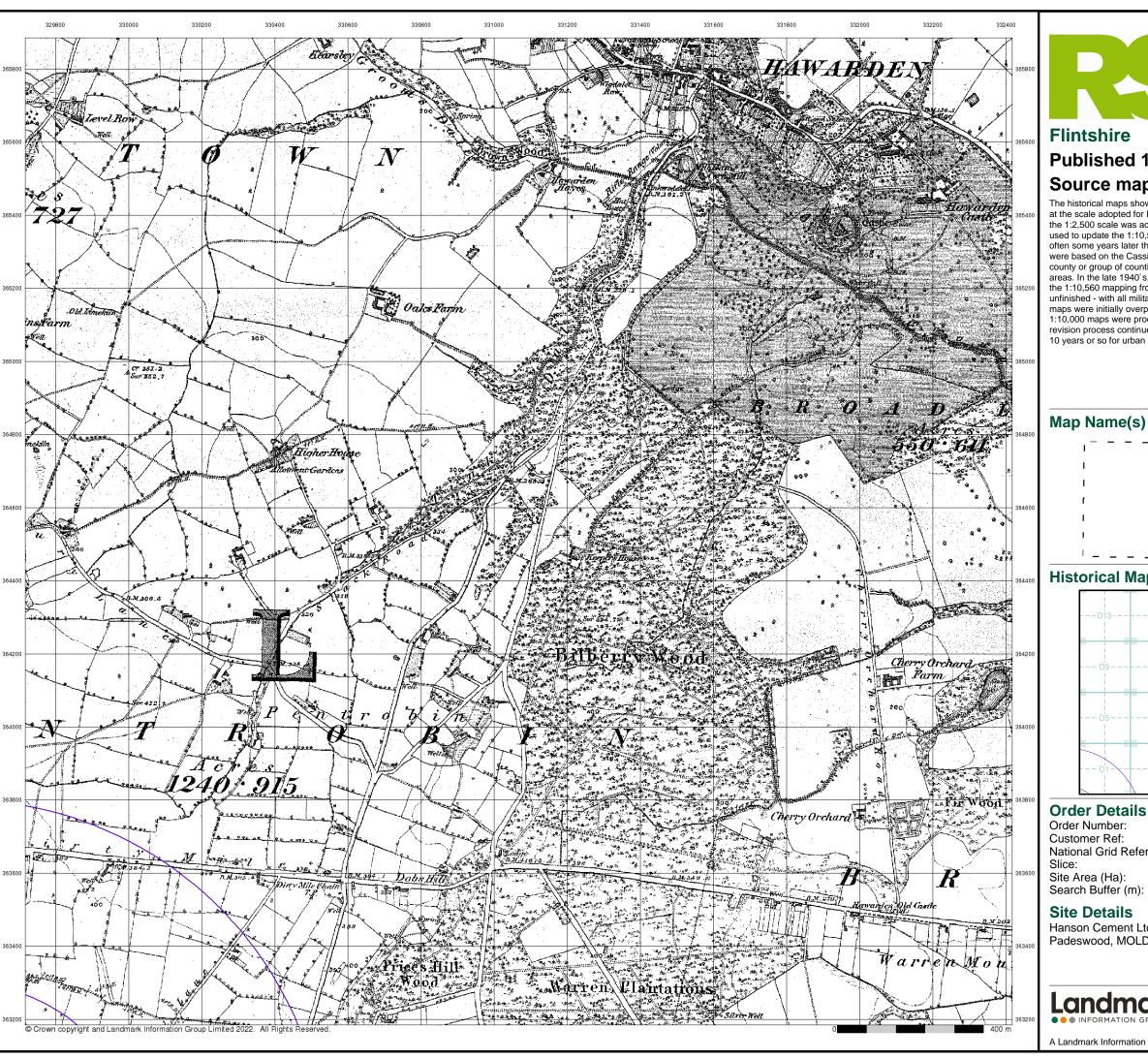
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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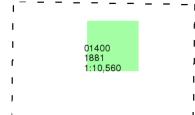




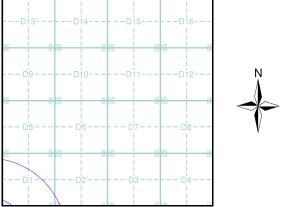
# **Published 1881** Source map scale - 1:10,560

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)



#### **Historical Map - Slice D**



#### **Order Details**

304808740_1_1 323126 National Grid Reference: 330010, 363420 71.96

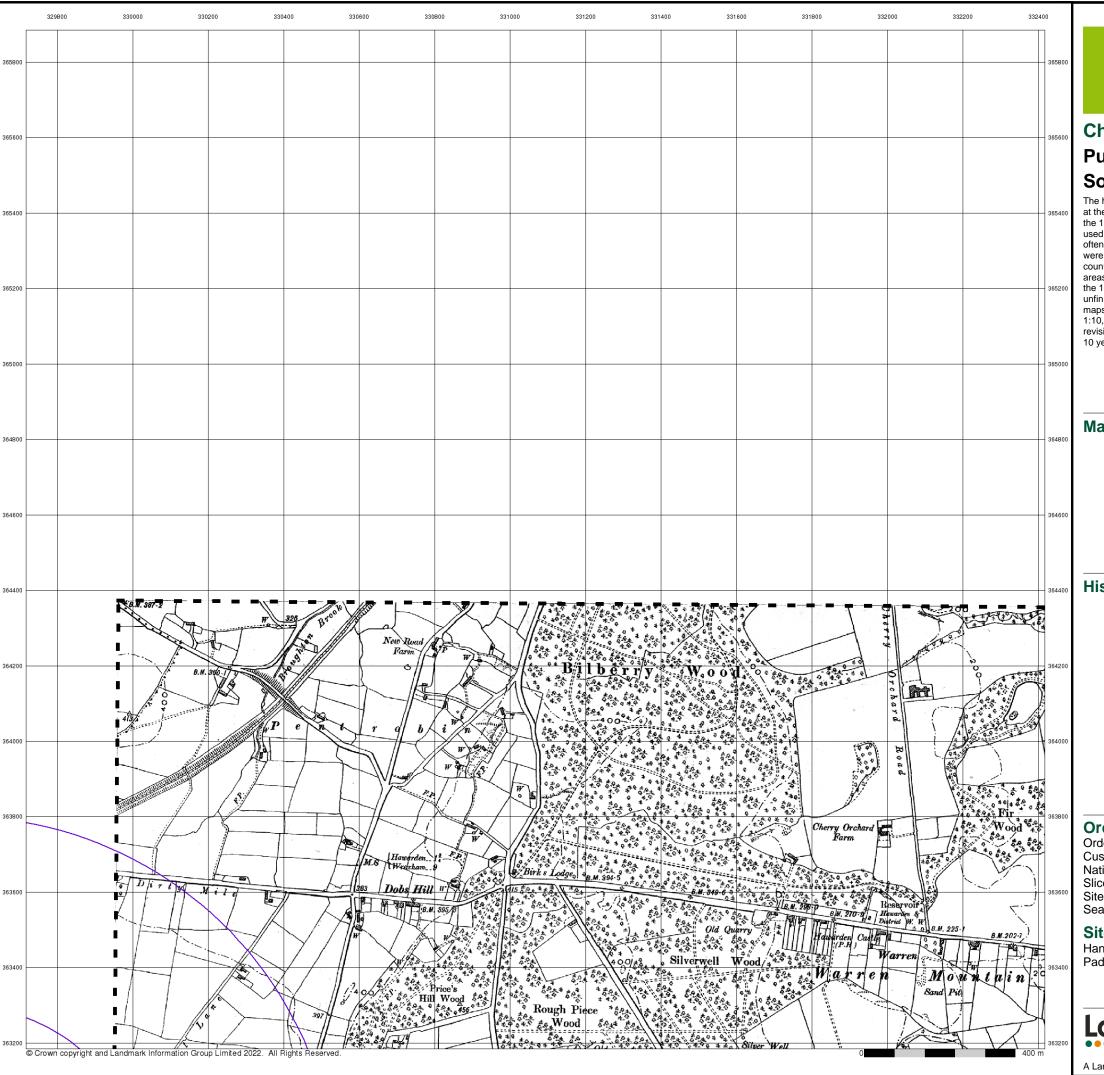
1000

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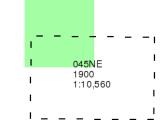


# Cheshire

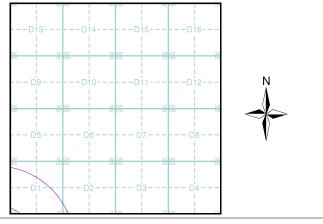
# Published 1900 Source map scale - 1:10,560

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D
Site Area (Ha): 71.06

Site Area (Ha): 71.96 Search Buffer (m): 1000

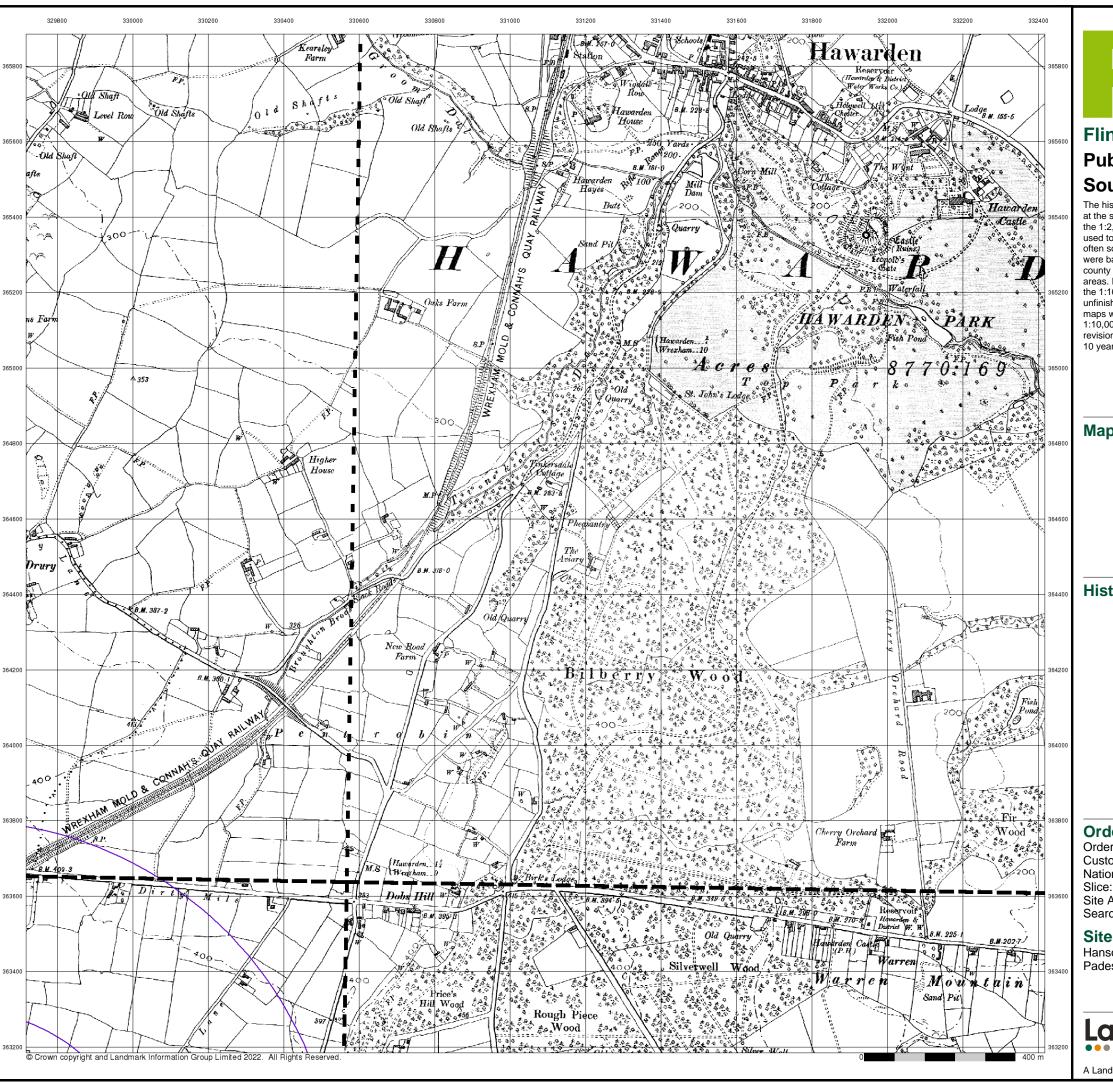
#### Site Details

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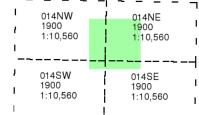
A Landmark Information Group Service v50.0 07-Dec-2022 Page 4 of 19



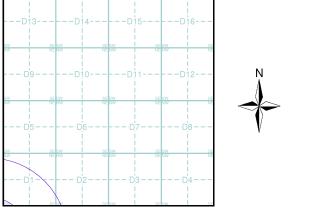
# **Published 1900** Source map scale - 1:10,560

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 D**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330010, 363420 D

Site Area (Ha):

71.96 Search Buffer (m): 1000

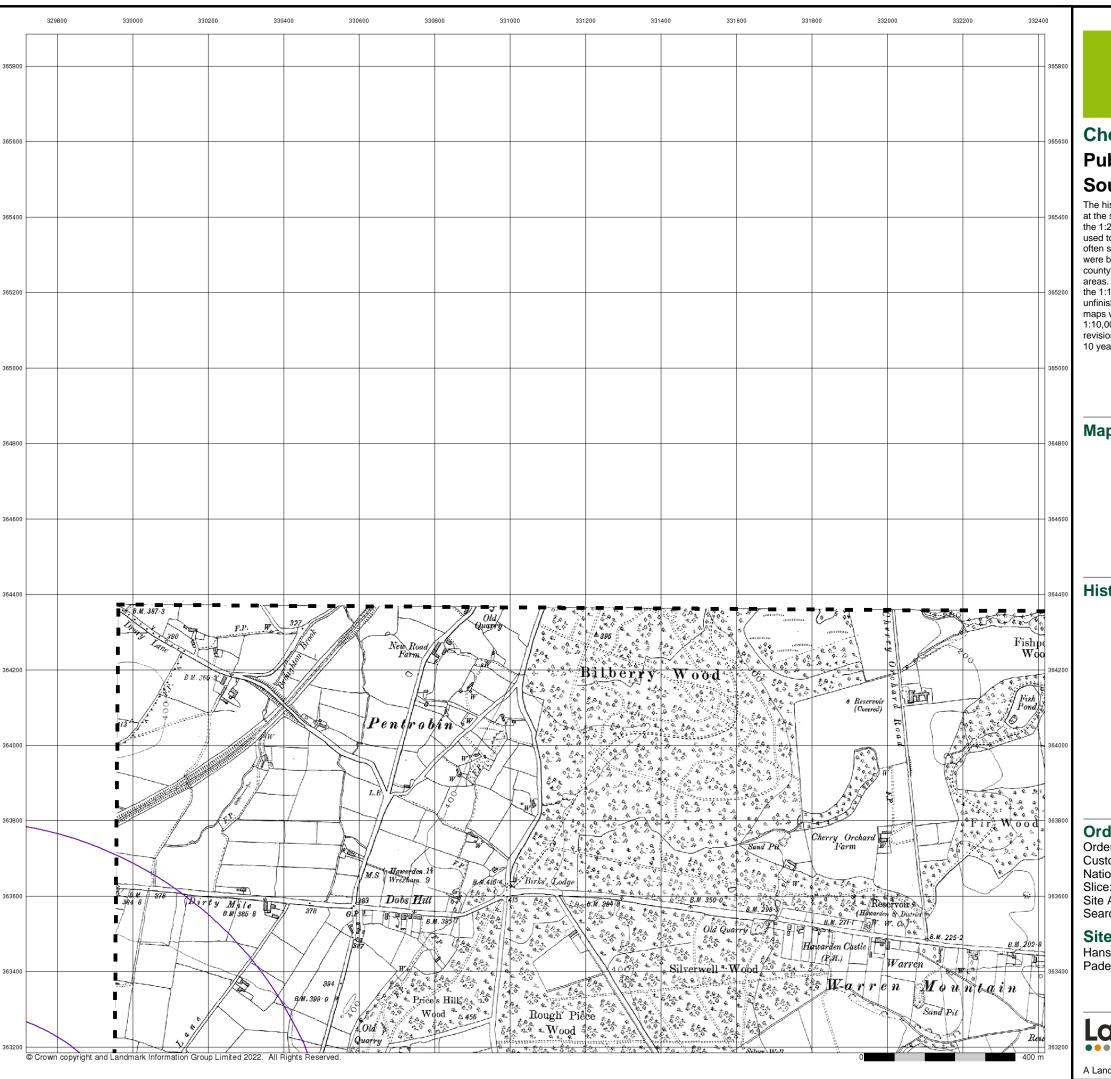
#### **Site Details**

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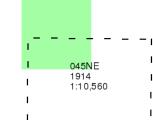
#### Cheshire

# **Published 1914**

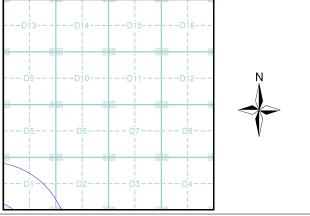
## Source map scale - 1:10,560

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 D**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330010, 363420 Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

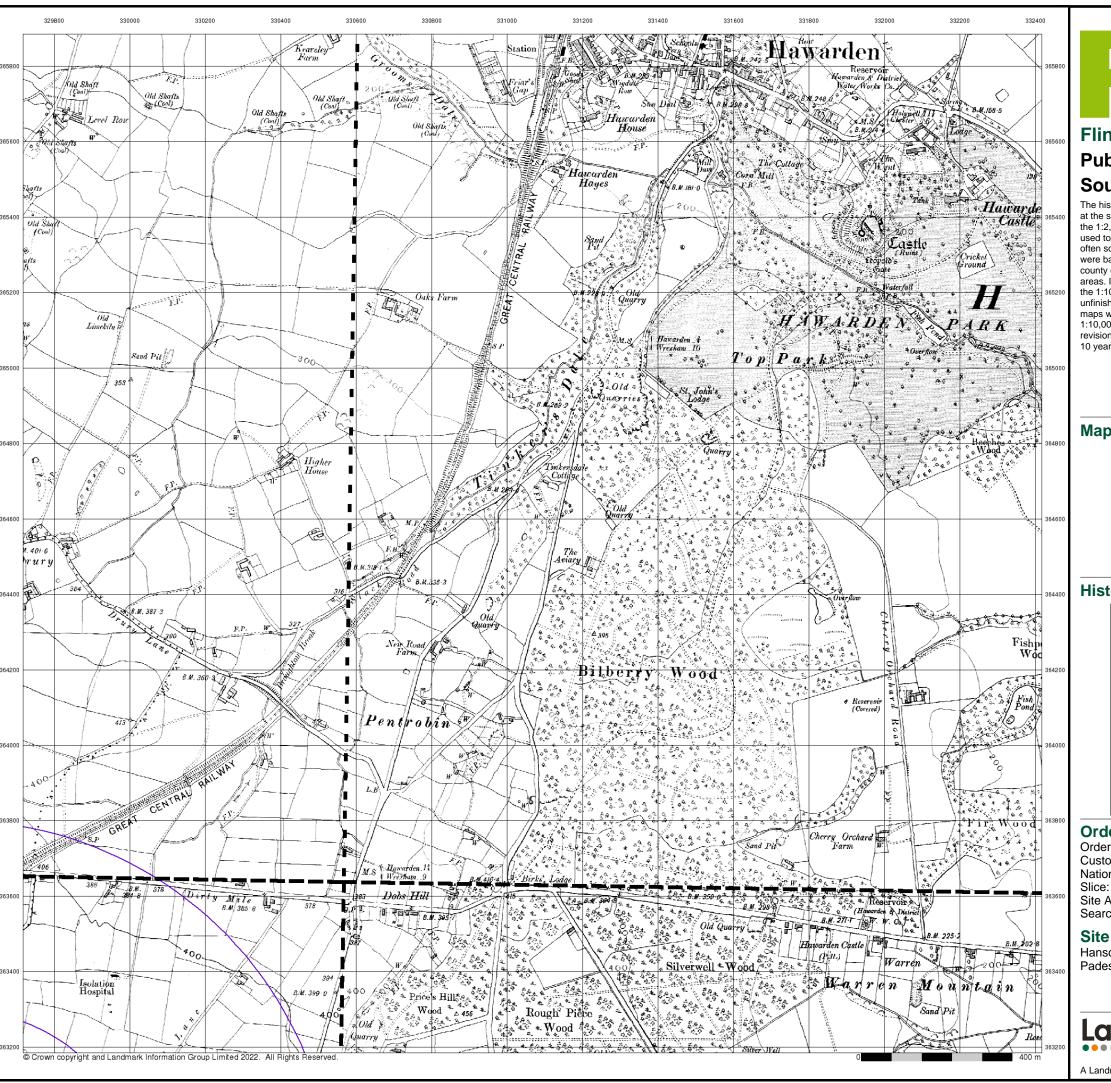
#### **Site Details**

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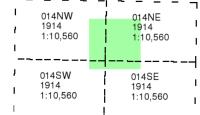




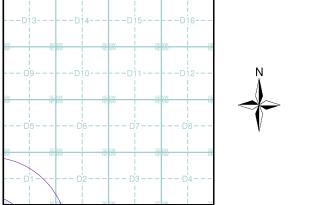
# Published 1914 Source map scale - 1:10,560

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



#### **Historical Map - Slice D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
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Site Area (Ha): 71.96

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#### **Site Details**

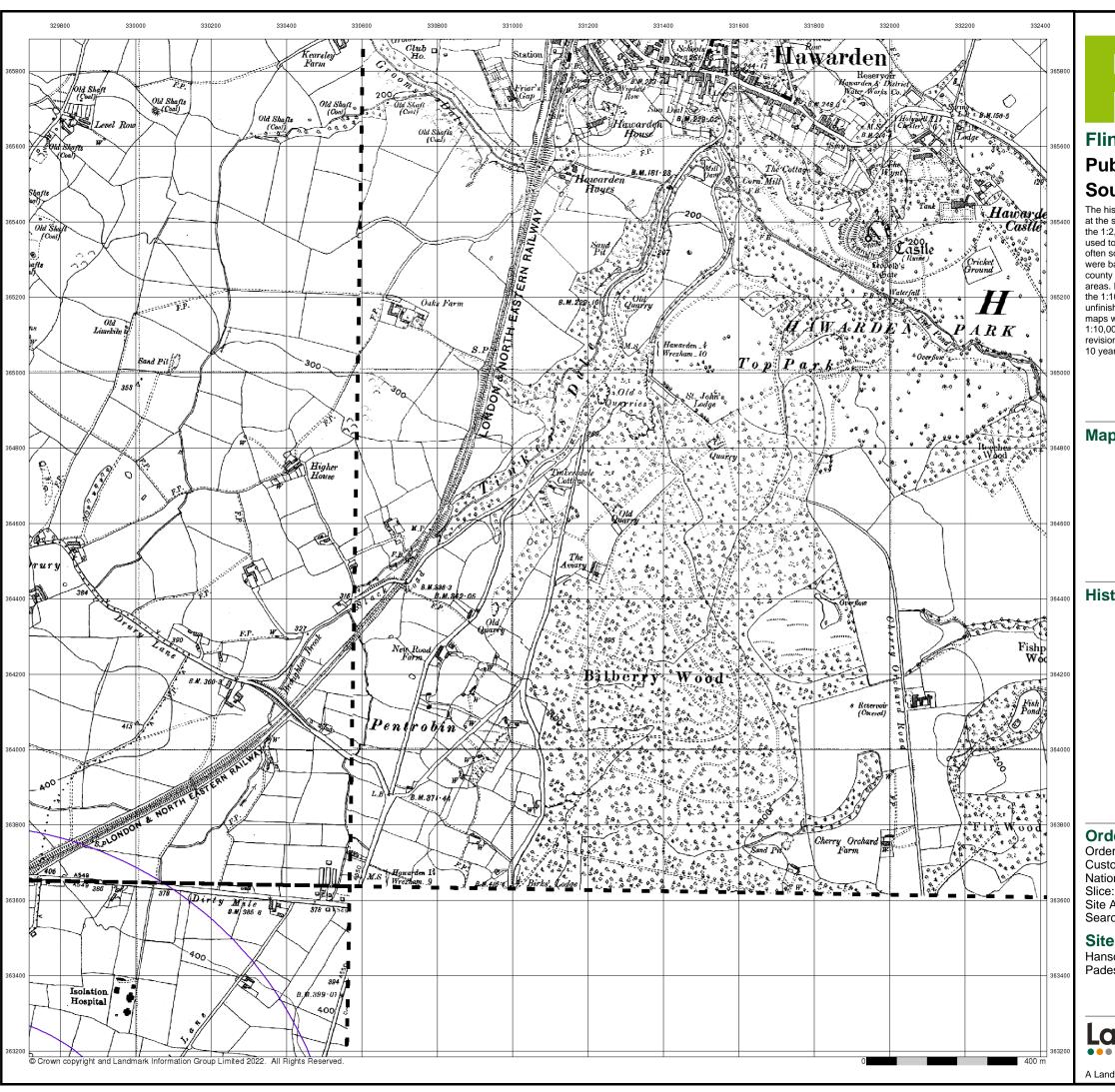
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1000



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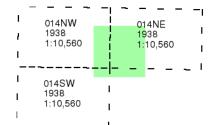
A Landmark Information Group Service v50.0 07-Dec-2022 Page 7 of 19



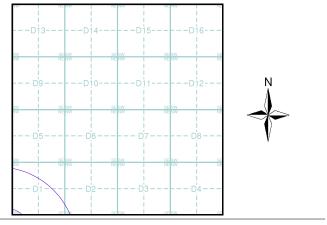
# **Published 1938** Source map scale - 1:10,560

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 D**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330010, 363420 D

Site Area (Ha): 71.96 Search Buffer (m): 1000

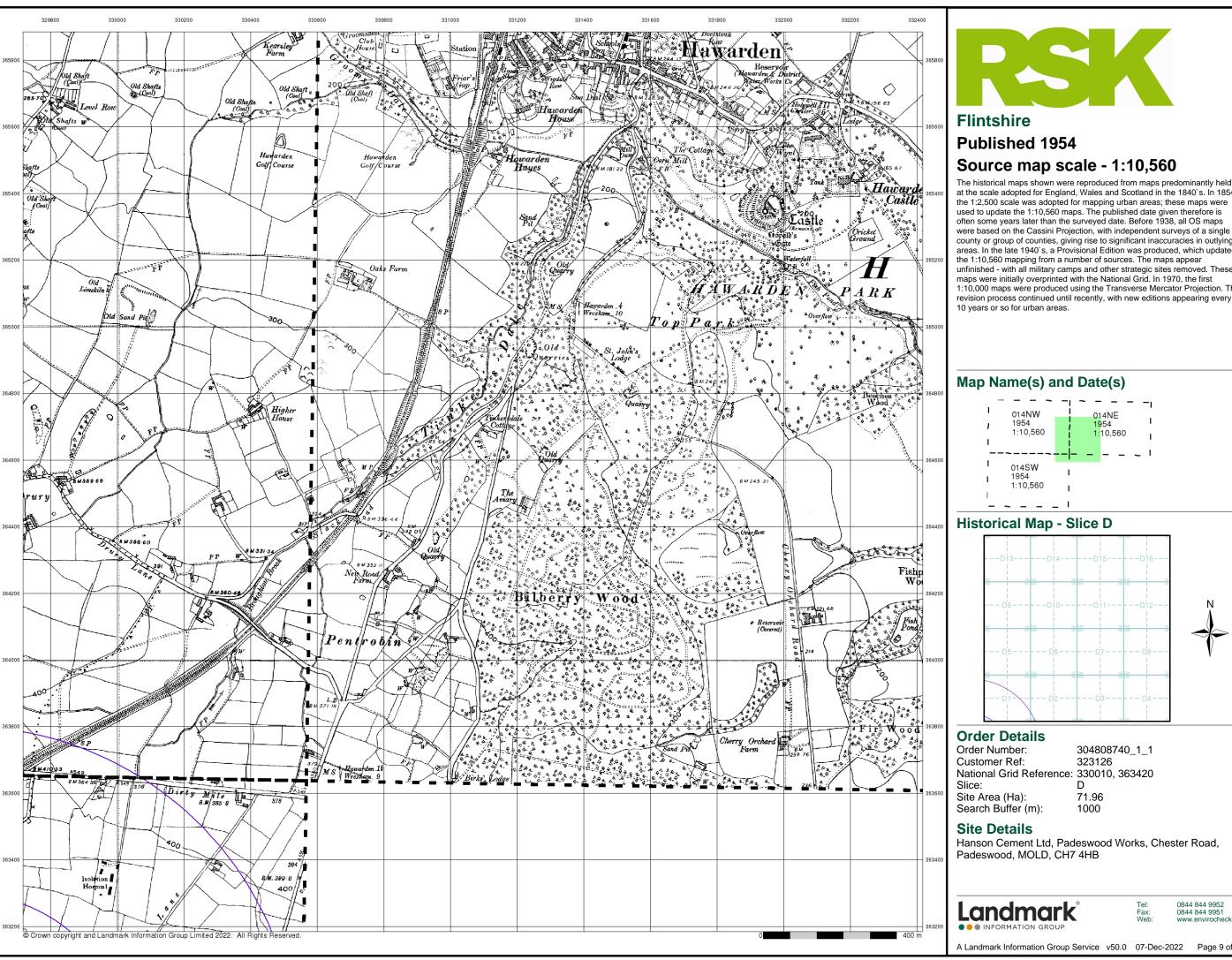
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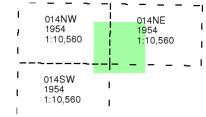
A Landmark Information Group Service v50.0 07-Dec-2022 Page 8 of 19



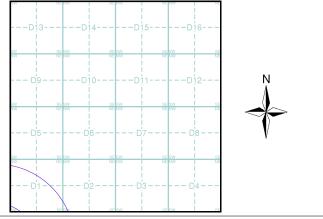
# **Published 1954** Source map scale - 1:10,560

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

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



#### **Historical Map - Slice D**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330010, 363420 Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

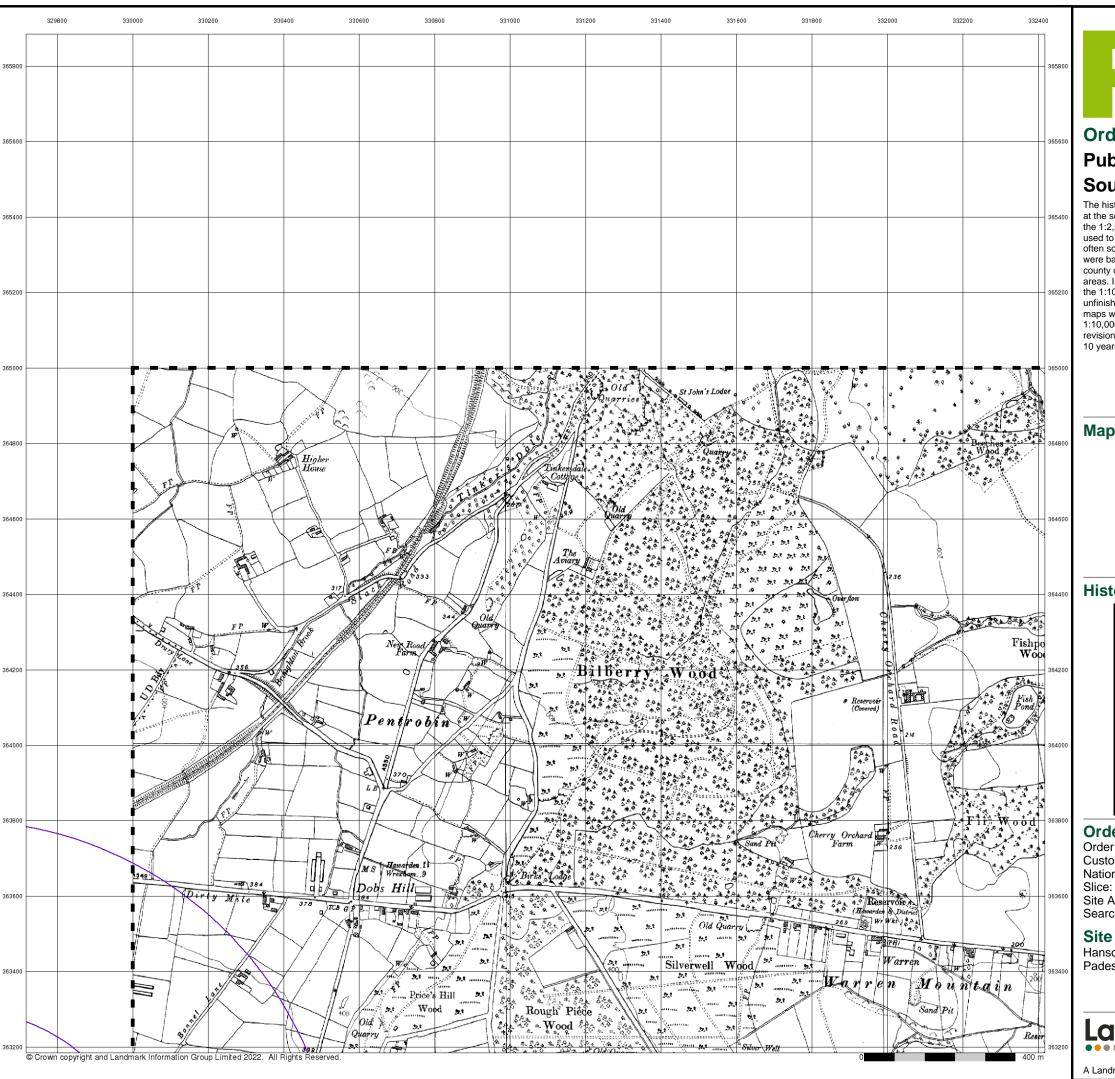
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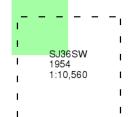
# Ordnance Survey Plan

# Published 1954

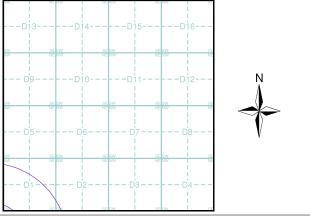
# Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D

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Site Area (Ha): 71.96 Search Buffer (m): 1000

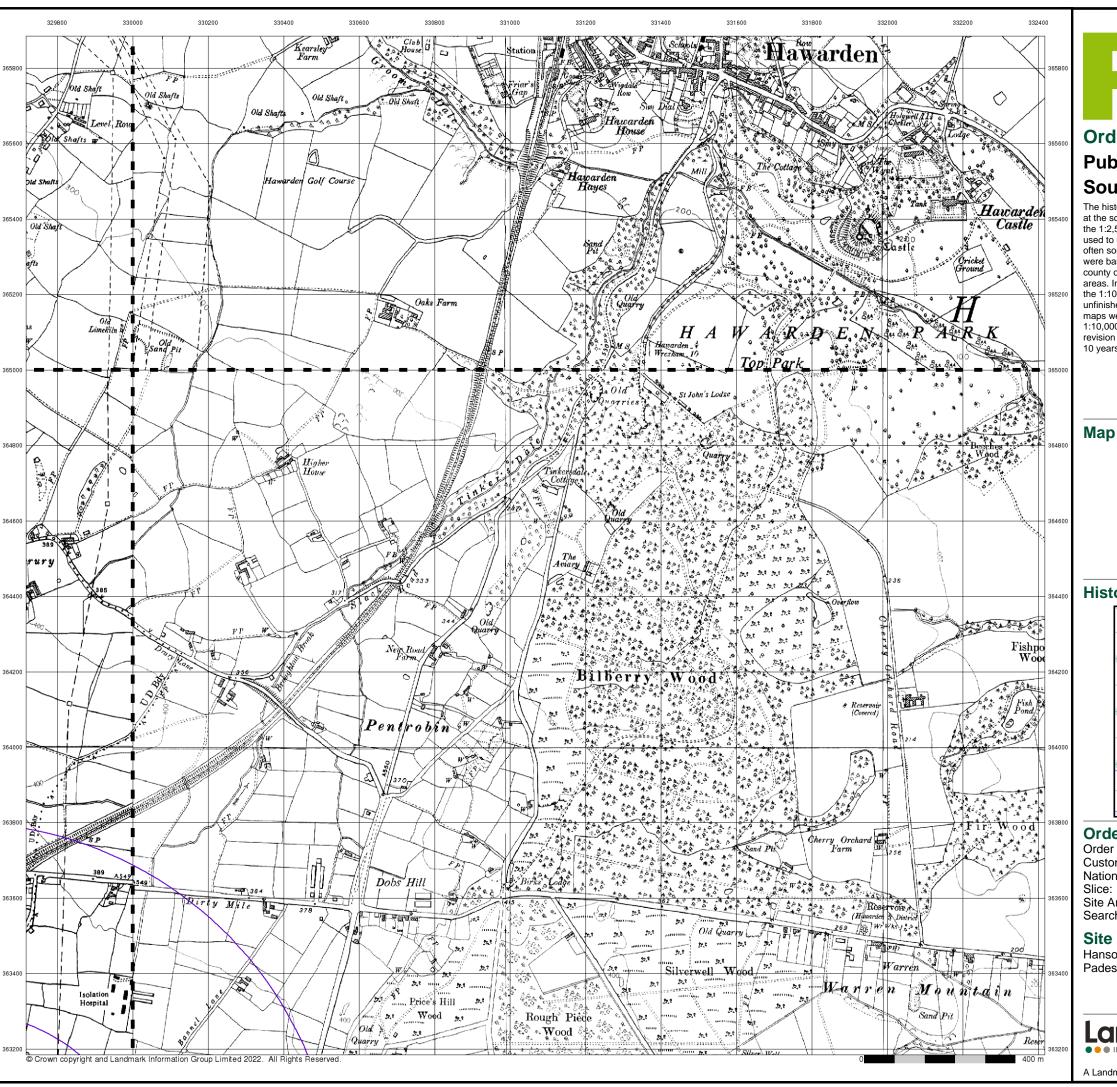
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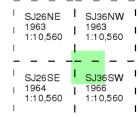


# Ordnance Survey Plan Published 1963 - 1966

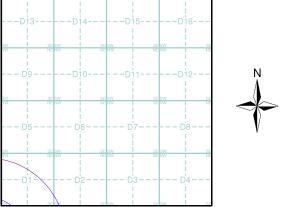
# Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D
Site Area (Ha): 71.96

Search Buffer (m): 71.96

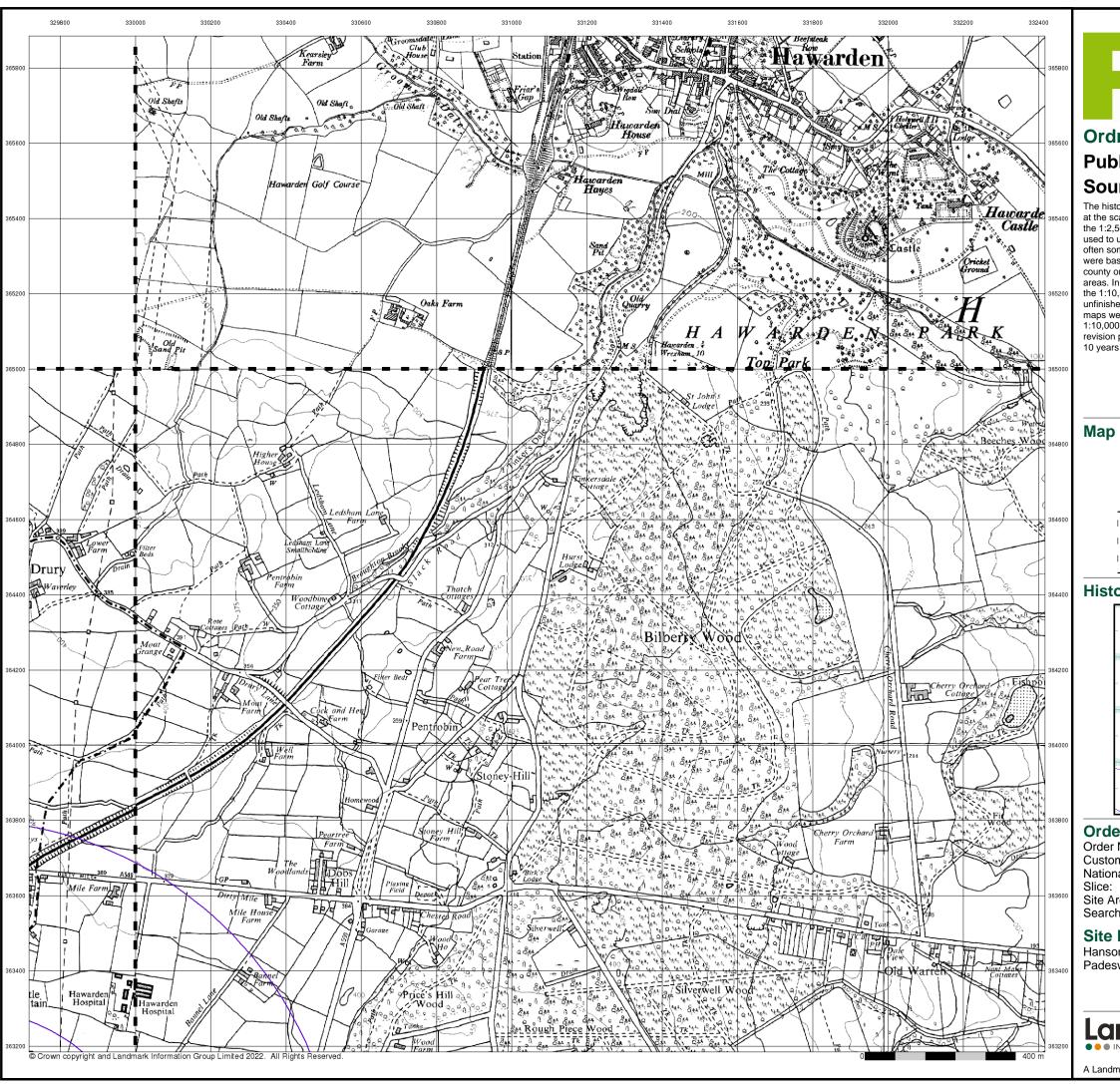
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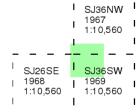


# **Ordnance Survey Plan**

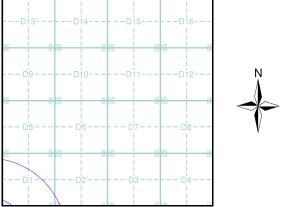
# Published 1967 - 1969 Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

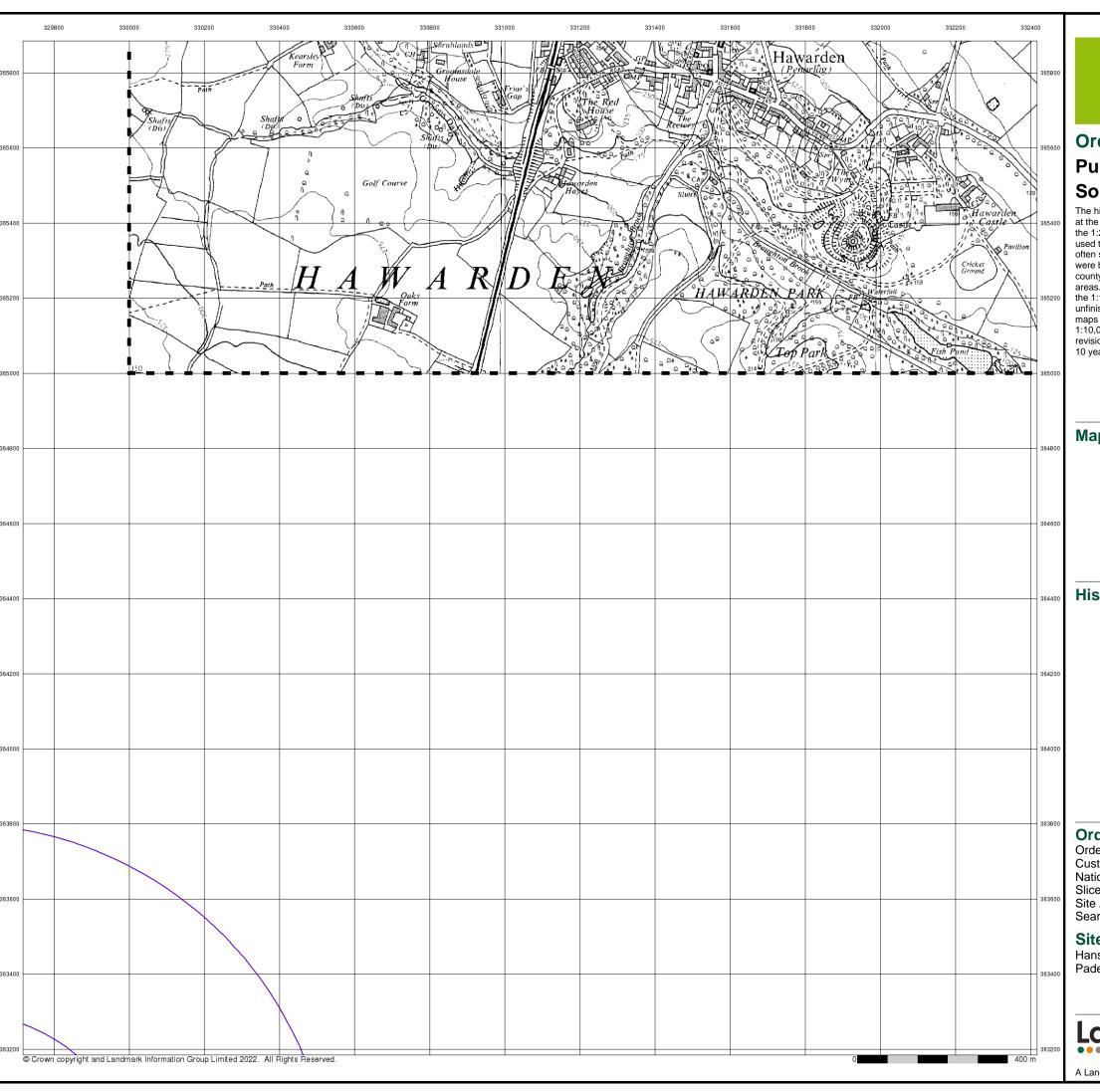
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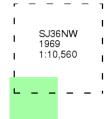
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# Published 1969

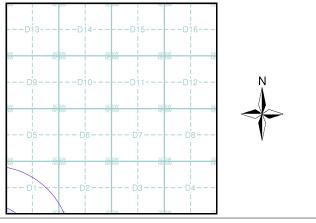
## Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

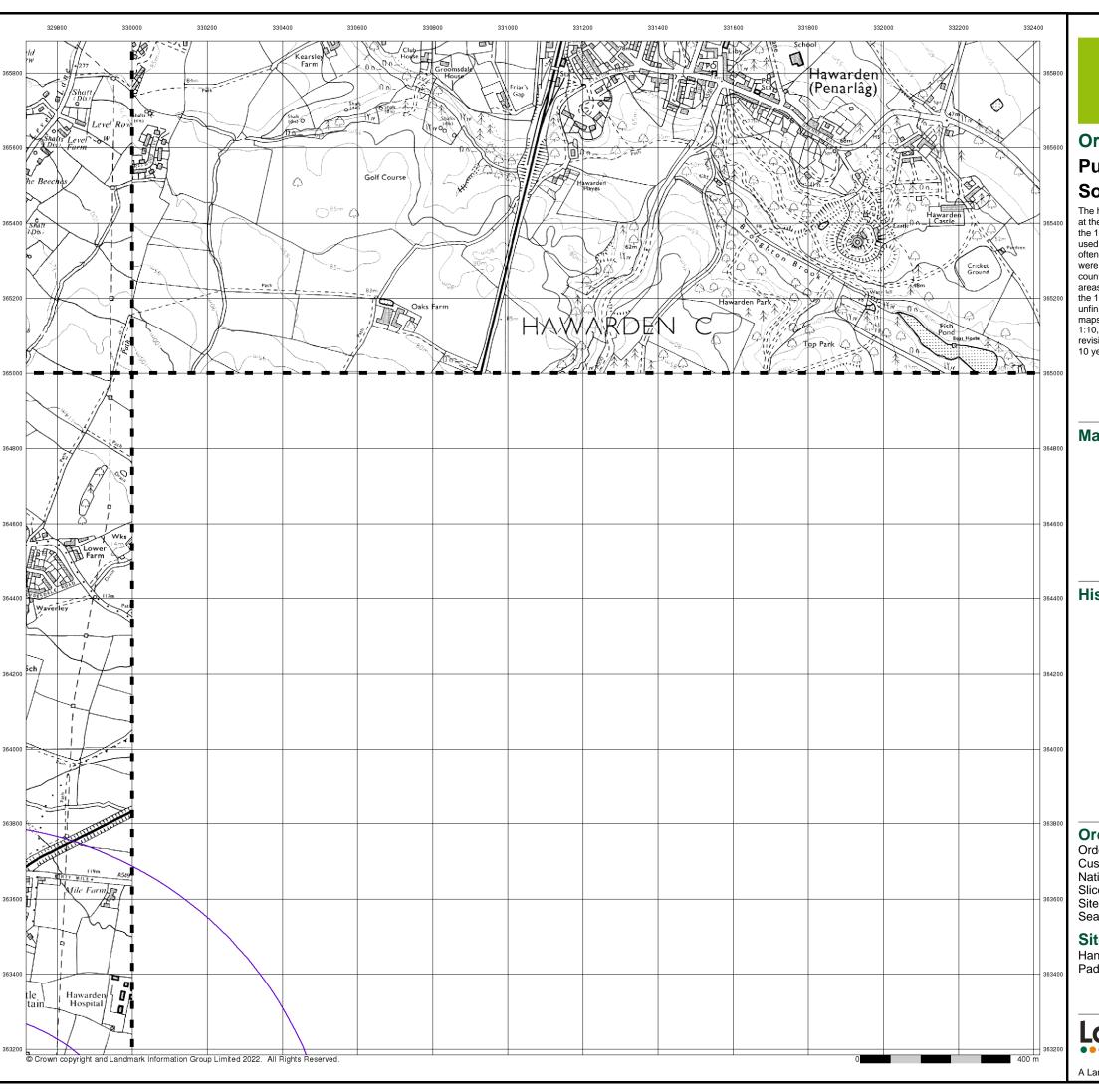
#### **Site Details**

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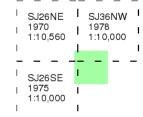




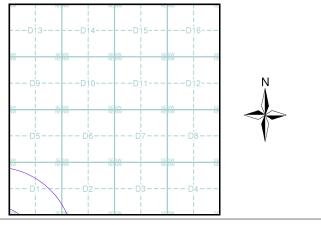
# **Ordnance Survey Plan Published 1970 - 1978** Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 330010, 363420 Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

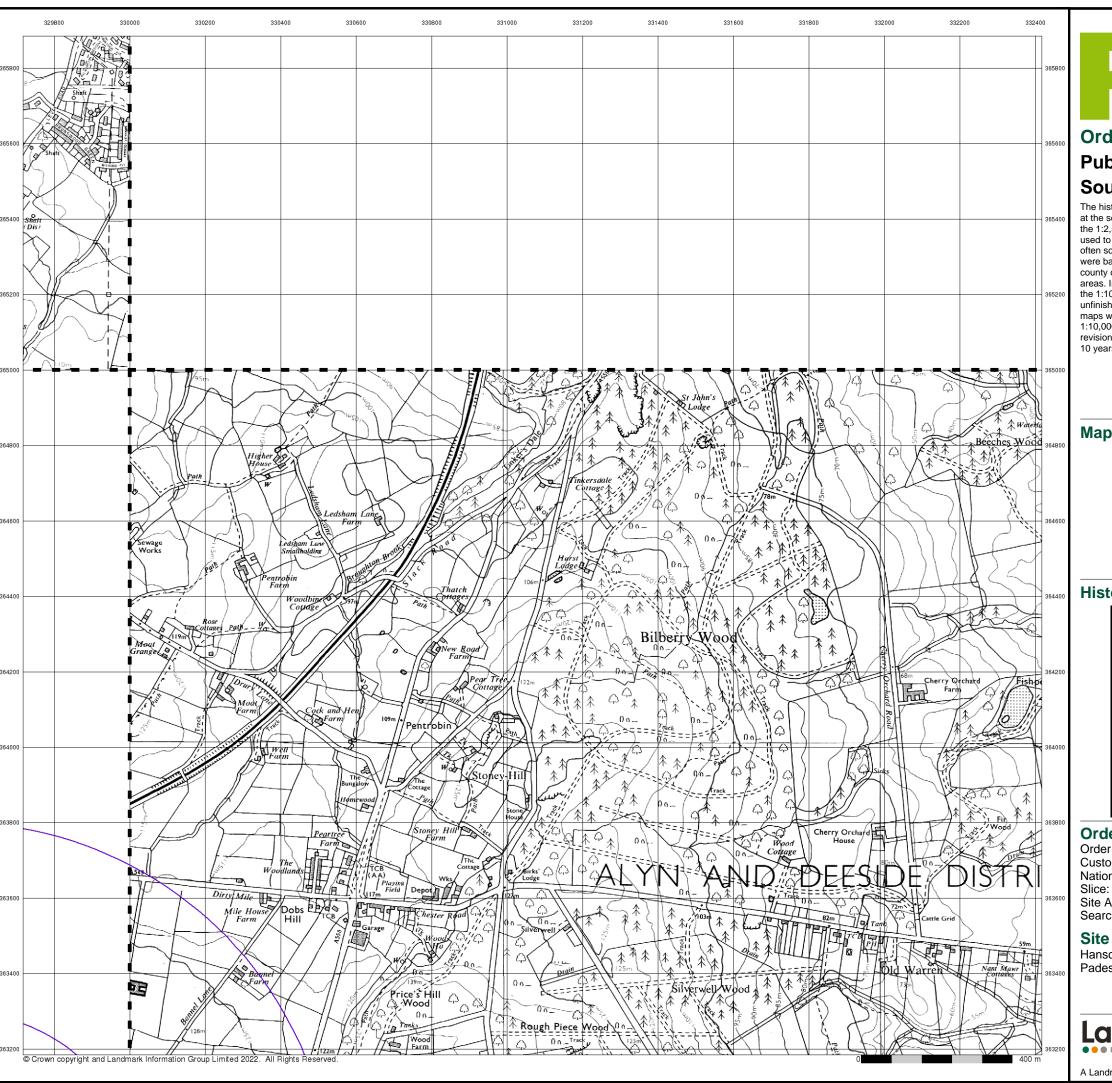
#### **Site Details**

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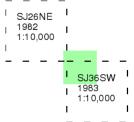
# **Ordnance Survey Plan**

# Published 1982 - 1983

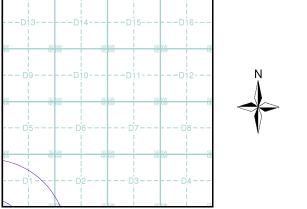
# Source map scale - 1:10,000

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

# Map Name(s) and Date(s)



#### **Historical Map - Slice D**



#### **Order Details**

Order Number: 304808740_1_1 **Customer Ref:** 323126 National Grid Reference: 330010, 363420 D

Site Area (Ha): Search Buffer (m): 71.96 1000

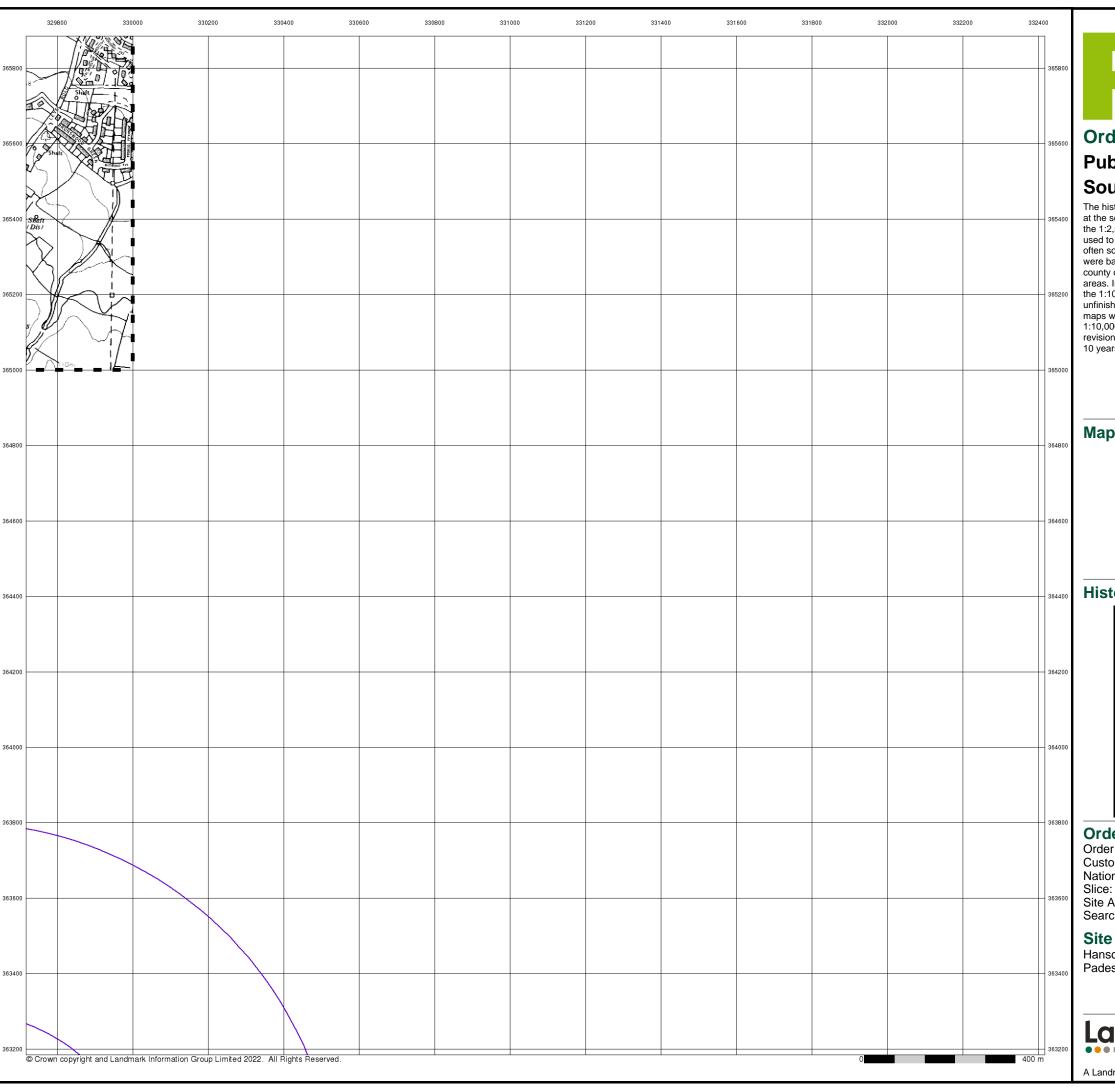
#### **Site Details**

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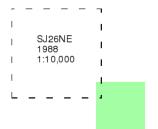
# **Ordnance Survey Plan**

# Published 1988

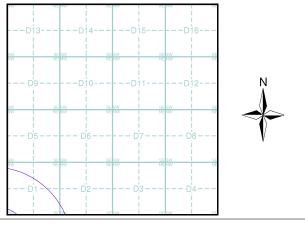
# Source map scale - 1:10,000

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 D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420
Slice: D

Site Area (Ha): 71.96 Search Buffer (m): 1000

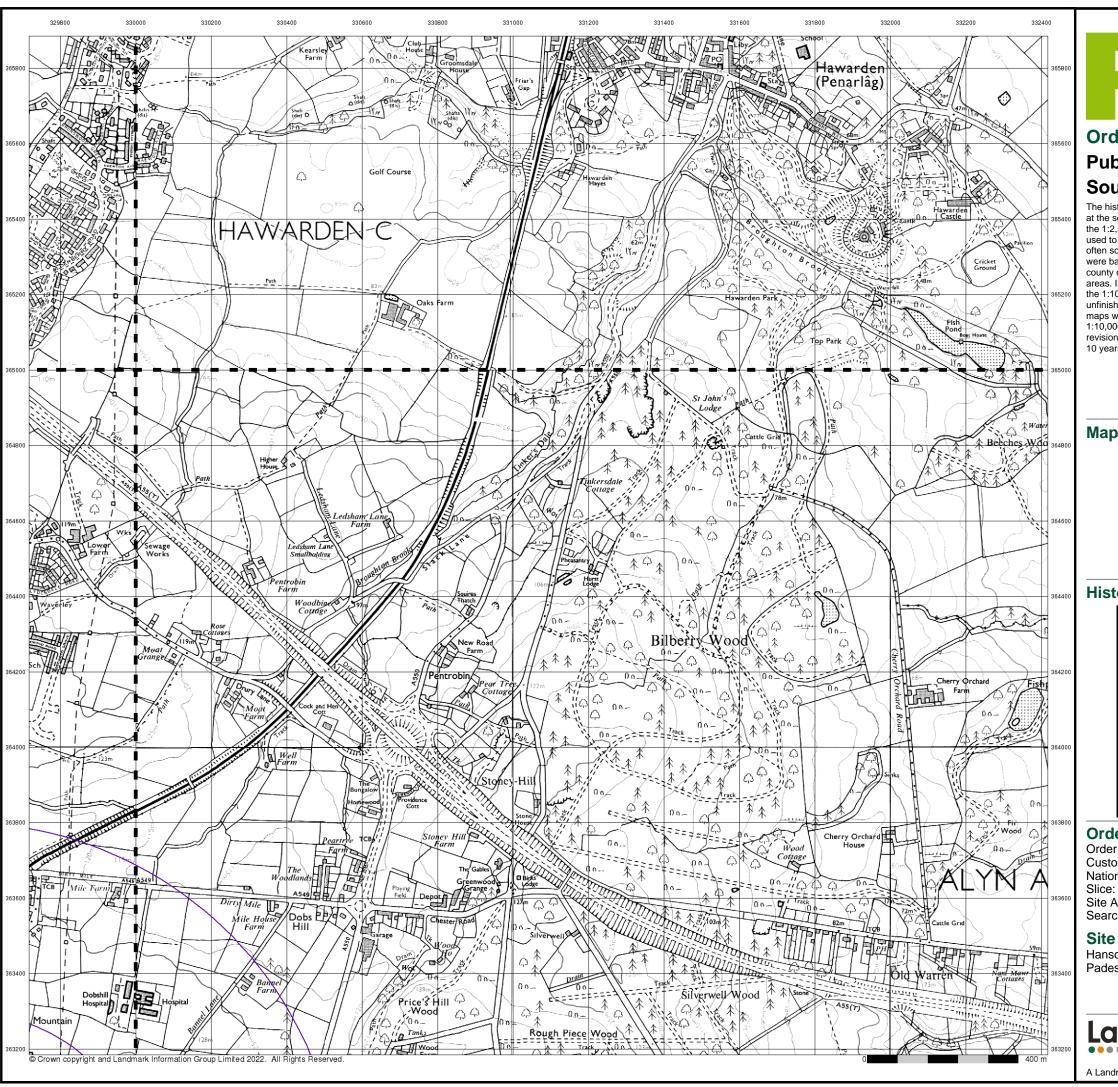
#### **Site Details**

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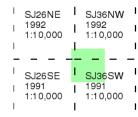
# RSK

# Ordnance Survey Plan Published 1991 - 1992

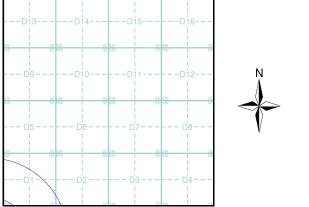
Source map scale - 1:10,000

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

# Map Name(s) and Date(s)



#### **Historical Map - Slice D**



#### **Order Details**

Order Number: 304808740_1_1
Customer Ref: 323126
National Grid Reference: 330010, 363420

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Site Area (Ha): 71.96 Search Buffer (m): 1000

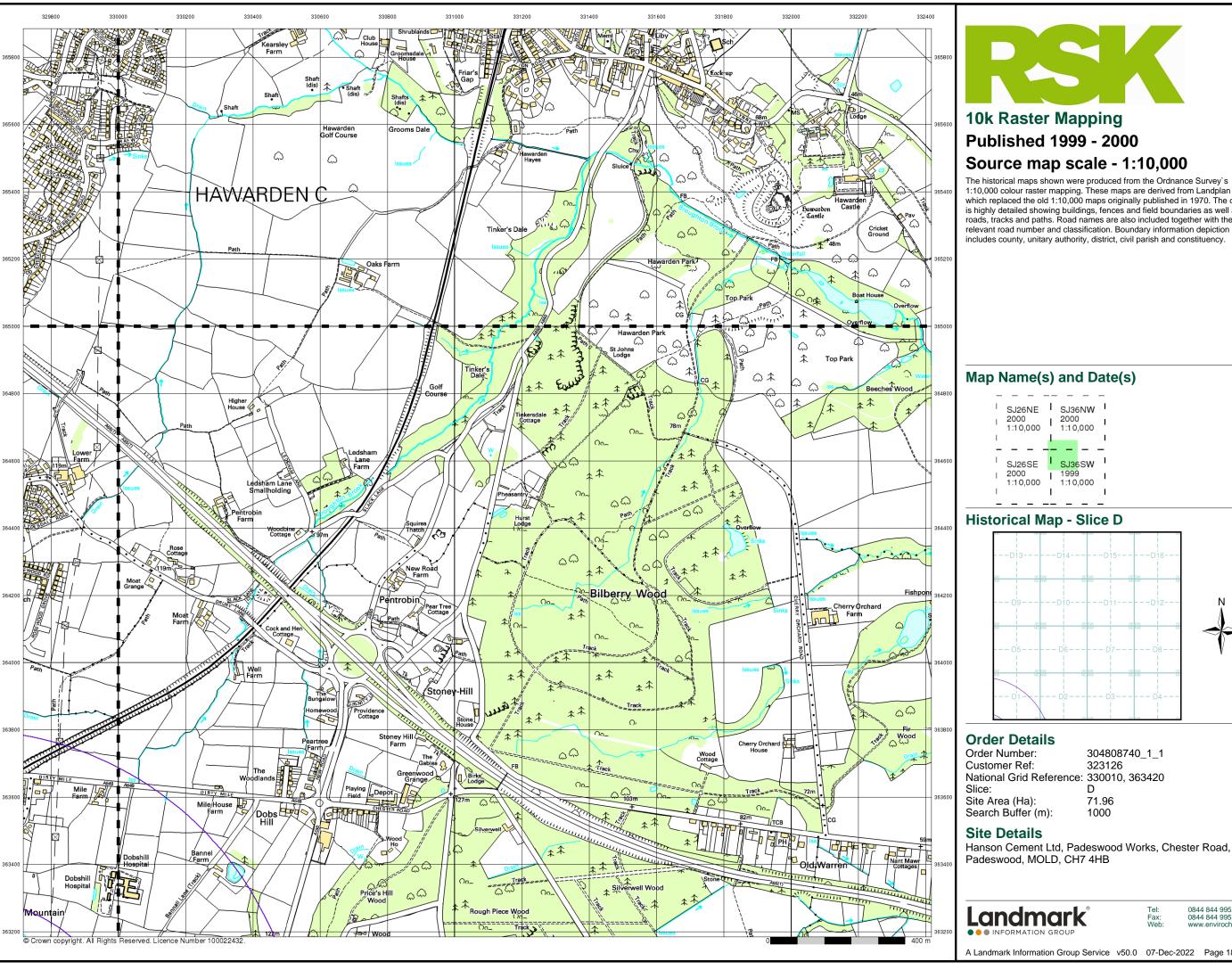
#### **Site Details**

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Landmark® INFORMATION GROUP

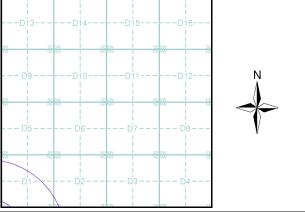
el: 0844 844 9952 lx: 0844 844 9951 eb: www.envirocheck.co.uk

A Landmark Information Group Service v50.0 07-Dec-2022 Page 17 of 19



# Source map scale - 1:10,000

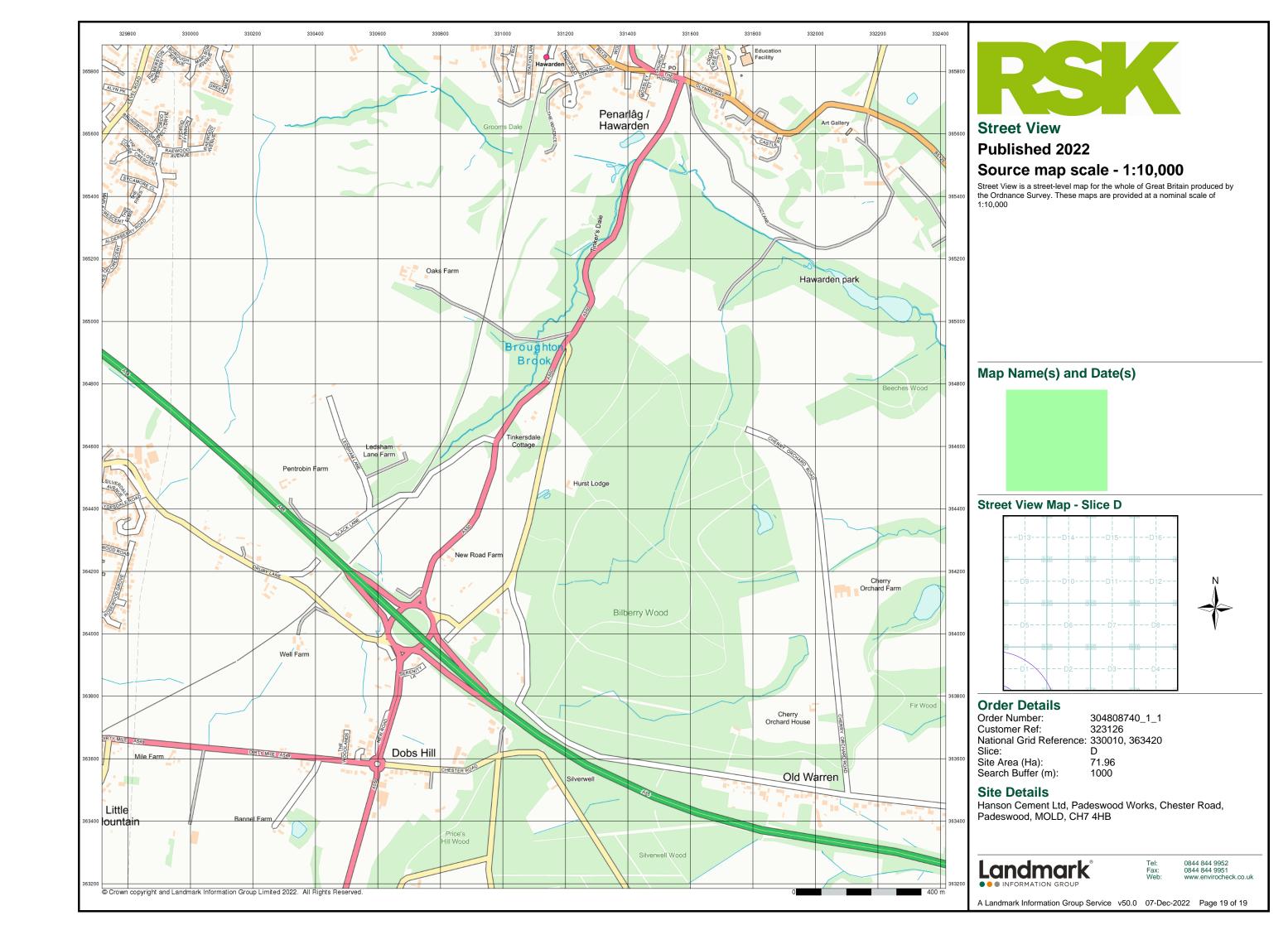
The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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.



National Grid Reference: 330010, 363420

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 07-Dec-2022 Page 18 of 19





# APPENDIX C- THE COAL AUTHORITY CONSULTANTS MINING REPORT (2022)





# Consultants Coal Mining Report

Hanson Cement Ltd, Padeswood Works Chester Road Mold Flintshire CH7 4HB

Date of enquiry:
Date enquiry received:

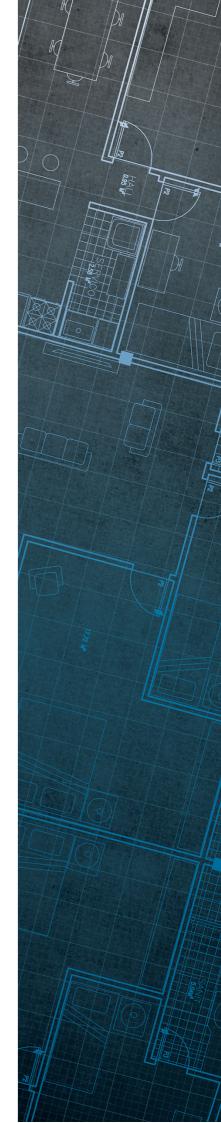
Issue date:

14 December 2022 14 December 2022

14 December 2022

Our reference: Your reference:

51003330299001 305041257_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**

Hanson Cement Ltd, Padeswood Works Chester Road Mold Flintshire CH7 4HB

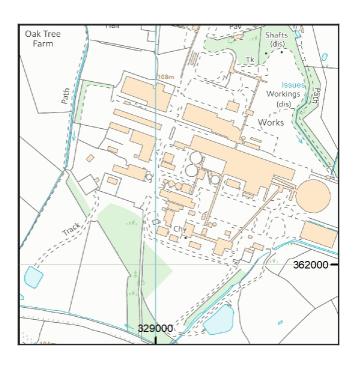
#### How to contact us

0345 762 6848 (UK) +44 (0)1623 637 000 (International)

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com





Approximate position of property



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Ordnance Survey Licence number: 100020315

# **Section 1 - Mining activity and geology**

#### Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	HOLLIN	Coal	37X7	14	Beneath Property	17.9	N/A	120	1901
unnamed	HOLLIN	Coal	7H35	30	Beneath Property	18.0	East	120	1901
unnamed	HOLLIN	Coal	7H37	30	Beneath Property	18.0	East	120	1901
unnamed	HOLLIN	Coal	37X4	35	Beneath Property	18.0	East	120	1901
unnamed	HOLLIN	Coal	7H36	40	Beneath Property	18.0	East	120	1901

#### **Probable unrecorded shallow workings**

None.

#### Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

#### **Mine entries**

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	329361-278	329257 361600		Coal	
Shaft	329362-117	329371 362727		Coal	
Shaft	329362-118	329234 362447		Coal	
Shaft	329362-119	329267 362450		Coal	
Shaft	329362-233	329382 362442		Coal	
Shaft	329362-321	329330 362431		Coal	

#### **Abandoned mine plan catalogue numbers**

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

4215	0	PO0
8841		

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

#### **Outcrops**

No outcrops recorded.

#### **Geological faults, fissures and breaklines**

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property 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.

# **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.

# **Section 3 - Licensing and future mining activity**

#### **Future underground mining**

None recorded.

#### **Coal mining licensing**

None recorded within 200 metres of the enquiry boundary.

#### **Court orders**

None recorded.

#### **Section 46 notices**

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

#### Withdrawal of support notices

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

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

#### Payments to owners of former copyhold land

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

## Section 4 - Further information

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

#### **Future development**

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

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

#### **Development advice**

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

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

# 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.

#### **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.

#### 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

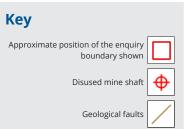
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

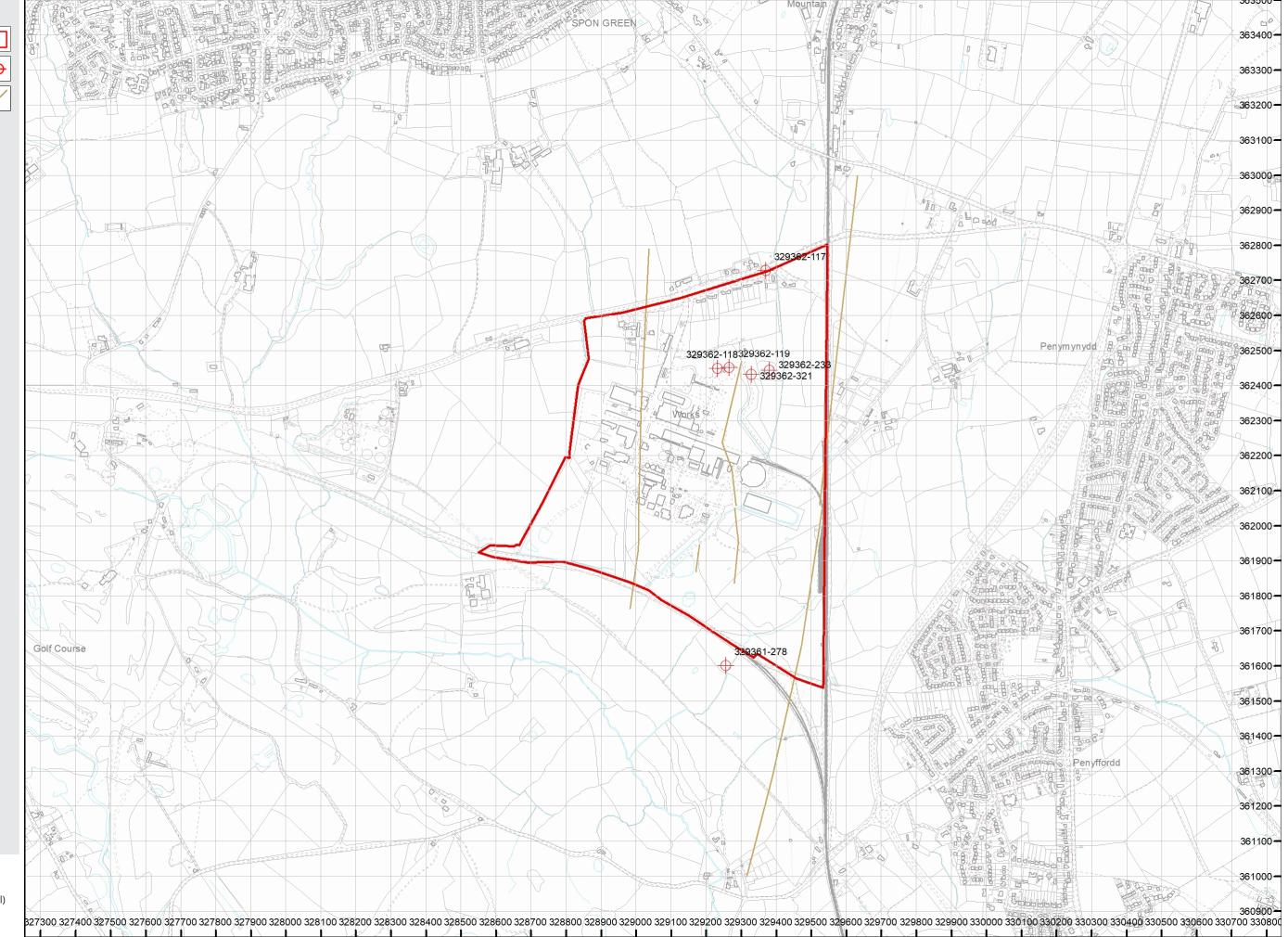
#### Payment to owners of former copyhold land

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.

# Summary of findings

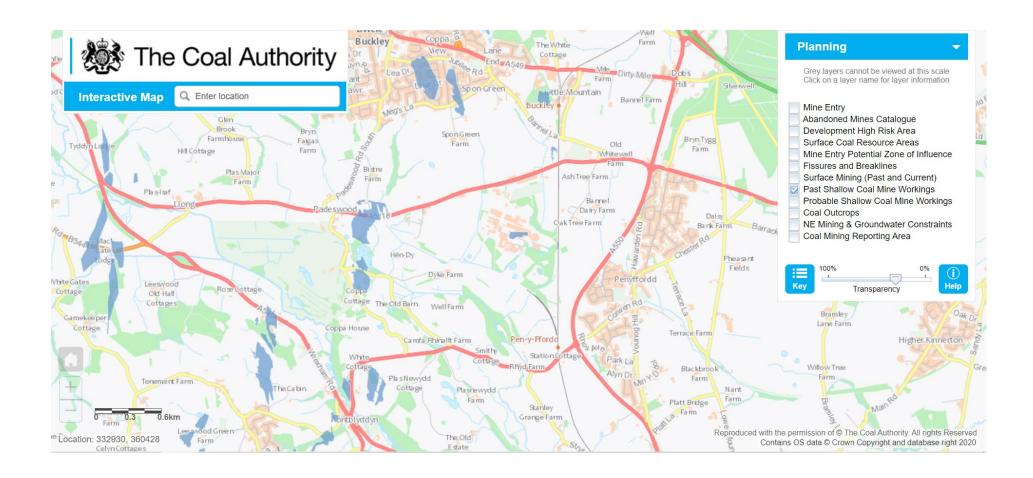
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

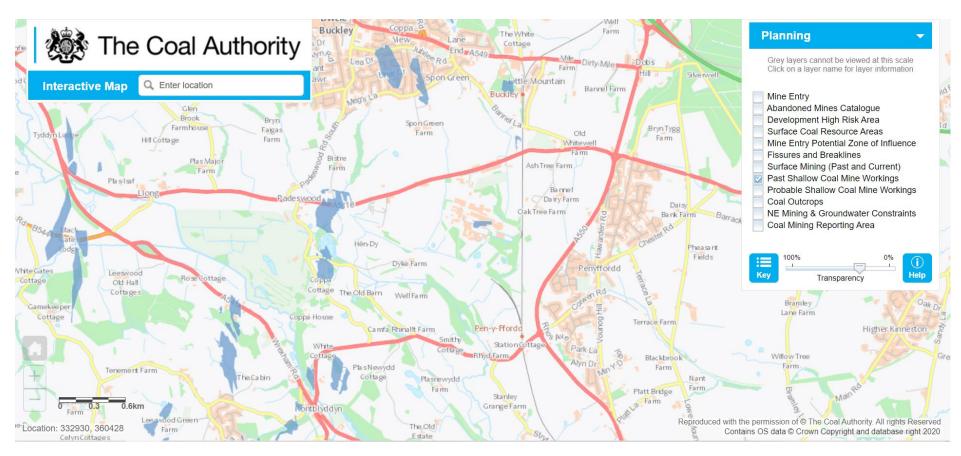




# How to contact us

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





Area of past shallow coal mine workings (centre of site, in area of former Padeswood Colliery)



Working date for all five crosses shown in site boundary given as 1901. These positions correspond to the records of past underground mining.

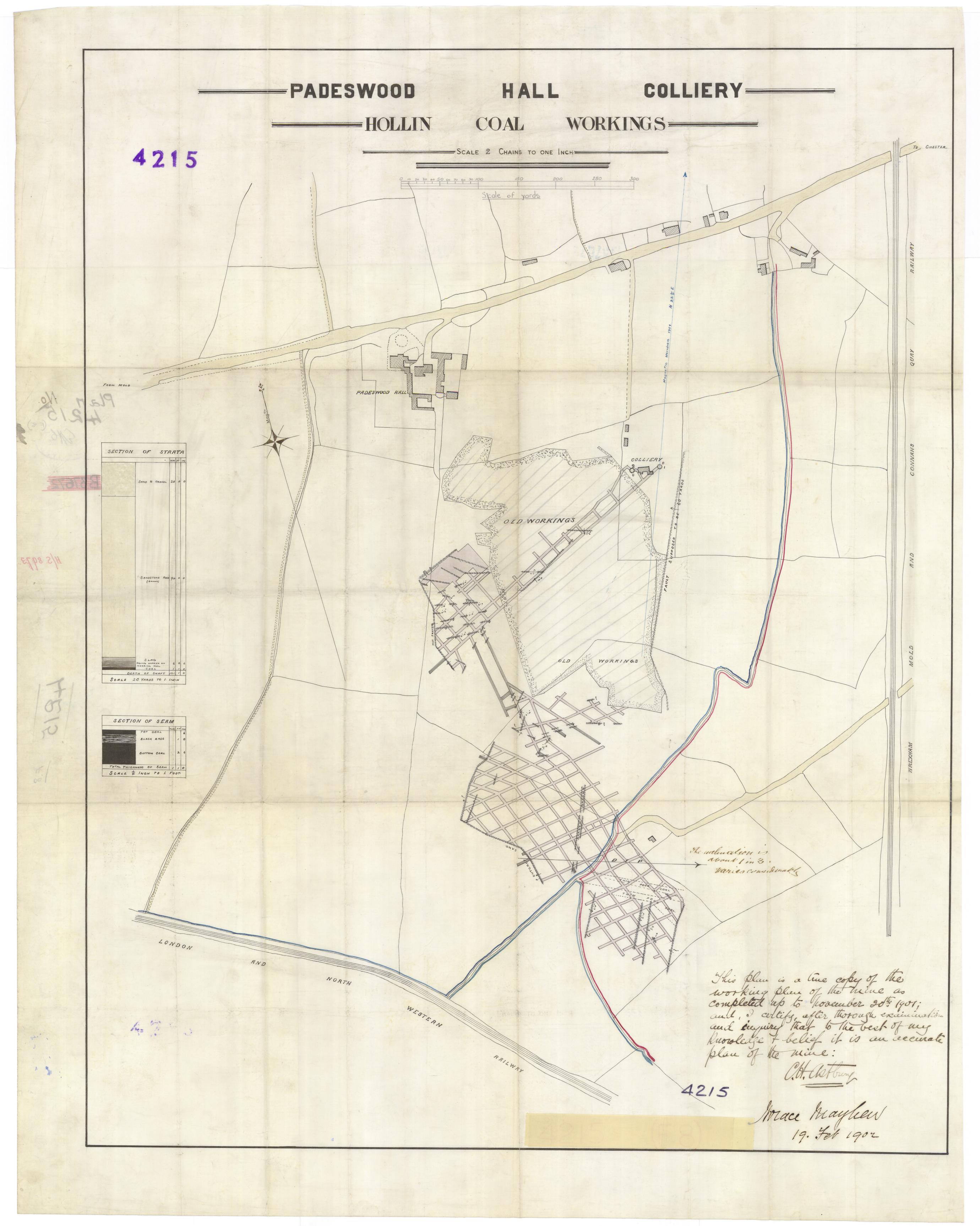


Area reported to have been worked underground.



# APPENDIX D – THE COAL AUTHORITY ABANDONMENT PLANS



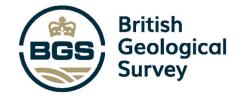




# **APPENDIX E-BGS BOREHOLE RECORDS**



# **BGS Boreholes Plan**





Contains OS data © Crown Copyright and database right 2020

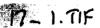
GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

## **Map Key**

#### Borehole records

- Unknown Length
- Confidential
- 0 10m
- 10 30m
- 30m+

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### WELSH NATIONAL WATER DEVELOPMENT DEE AND CLWYD RIVER DIVISION

5126 17

DETAILED HYDROGEOLOGICAL RECORD SHEET: INDIVIDUAL SITE RECORD

NAME

Padeswood

N.G.R.

6253 2902

SJ26 SE/15

EXACT SITE KNOWN

YES/NO

LOCATION SKETCH

yes/no

HEIGHT A.O.D.

ESTIMATED FROM

MAP/SURVEY

REFERENCE POINT

NONE/DETARLS/SPECTCH

HERE/I.G.S.

LOG

YES (NO

LOCATION OF LOG

SUMMARY OF LOG

to 361

Rockhead at 93.36m AGE

WATER QUALITY

INFORMATION

YES/NO

WATER LEVEL INFORMATION

ABSTRACTION

YES/NO/OCCASIONALLY/NOT KNOWN/STAND+BY

LICENCE NO.

LICENSED ABSTRACTION

/HOUR

/DAY

/YEAR

PUMPING TEST

yes/no

DATE

A CONTRACTOR OF THE STATE OF

NONE/ISOLATED READINGS/MONTHIN/AUTOGRAPHIC

LOCATION OF RECORDS

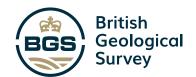
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Institute of Geological Sciences	6-in or 1:10 000 Map Registration No.
RECORD OF SHAFT OR BOREHOLE	SJ265E/586
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For whom made	2924 (244
Town or Village County Exact site (reference to a fixed point on 1-in or 1:50 000 Map)	1-in or 1:50 000 Enter 'C' if New Series Map No. Confidential
Purpose for which made	/08
Ground level at shaft bore relative to O.Dm. If not ground level give O.D. of	
Made by  British Geological Survey  Information from NCB No - 119	Date of sinking  British Geological Survey  Examined by
Specimen Numbers and Additional N	ntes

Classification	Description of Strata	Thickness metres	Depth metres
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Institute of Geological Sciences	6-in or 1:10 000 Map Registration No.
RECORD OF SHAFT OR BOREHOLE	SJ 265E/587
Name and Number of Shaft or Borehole:  Pales word Kell Colling [umand shaft]	National Grid Reference
For whom madeCounty	2938 (244
Exact site (reference to a fixed point on 1-in or 1:50 000 Map)	I-in or 1:50 000 Enter 'C' if New Series Map No. Confidential
Purpose for which made	
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BGS ID: 149258 : BGS Reference: SJ26SE587 British National Grid (27700) : 329380,362440

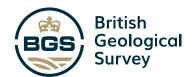
Report an issue with this borehole



< Prev Page 2 of 3 🗸



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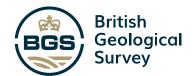
## BGS ID: 149258 : BGS Reference: SJ26SE587 British National Grid (27700) : 329380,362440

Report an issue with this borehole

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shaft f bore	
camin ed by Geological St	
11	te of sinking

Geological Classification	Description of Strata	Thickness metres	Depth metres
	Possible sheft.		
	Possible sleft. On WSL King Fieldship (1912) as ? sleft.  Dynamin windle 1986.		
Geological Survey	British Geological Survey	Emish Geological Sulle	
			7



BGS ID: 149259 : BGS Reference: SJ26SE588 British National Grid (27700) : 329330,362430

Report an issue with this borehole



Page 2 of 3 🗸



Shaft		Name of Colliery	T	In Feet		Top of	National	i e	to	sult for infor			·	·
Regis- ter No.	Parish	& Name and/or No.			Depth to		Grid	Abandonment		1 : 2500	Other O.S.	Other	In Insp.	Remarks
cer no.				Depth	Water	0.D.	Co-ordinates	Plans etc.		County Sheet	Sheets	Sources	File	
11  Same on  258]		Ruddy Justin C. 11. (.) (Lette Pandri Coll.) Engine PK	-weafale	2401 16 Mein			2954 6345	13434	F145W	F 14 10 1870 Hawren Chillian 1899				No true 5/68 Suff harted by dragline 10/1/25 4 die red hick filled a red thate be which y Do 2, on for the trustrand or writing all is question, on the project
British In	Geological Sui	Sickley Just C11. And Pet		40'		British	29422	Builley Justin 8977 Crank Hes				iish Gedil		Mo bonce 5/15
				ļ			572813						ļ	
/13							[2964 (315] Talian from NGB 1:1456 styleogr	13474 (R10)						i b
114							[2957] 6306] 714 for web 1:105654ft up							
115		Banul Coll. ADIT Upcent		Banny 48' Roys 183' Nam 188'			29 472 62 9(1), 980	Bennel Coll. SE41 Browny Rogh 18-						U
JıC		Benel CII ADIT Dement		Kurny 43' Roy L 133'			29466 (2 % ;	s.						*
#7 British (	Geological St	Ney			-	British	29 372 (2 72 P Geological Survi	Admin.		1899	STZMZ	iiish Geolo	- 100 - 100	ve¥ .
118		Padeserved Rell CII. Bennel Pets No 2 Upcent		360' Primier			29 <b>2</b> 34 62445	Rdemond Hall Goll. 4218 Wallin 1720	F145V 1923	F14,10 1899 1912		<b>1</b> 35		Dynami 5/16
				- , -			572862							
// )		No 1 Downcont  Interval (CII. (4))  No 8 Coppa CII		364'			24267 62 448 572862	r		'n	10.000	/30		59



BGS ID: 149259: BGS Reference: SJ26SE588 Geolo British National Grace Report an issue with this borehole British National Grid (27700): 329330,362430

Page 3 of 3 🗸 < Prev



Shaft		Name of Colliery	Ī	In Feet		Top of Shaft to	National	Source		sult for info			In	Remarks			
Regis- ter No.	Parish	& Name and/or No. of shaft or adit	Dia.	Depth	Depth to	O.D.	Grid Co-ordinates	Abandonment Plans etc.	6 inch Geol.	1: 2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File				
		Paderwood Kall Colling					2933		Plint 1450/E 1912 Feddip					Marhed on Jullahy on ? sty Departmen 1985.			
British (	eological Sur	12 Tables				British C	eological Surey				Bii	ish Geologi	al Surve				
han an armeditud a sir a same																	
	THE R. THE STREET BY AND ADMINISTRATIVE PROPERTY.				,												
British i	Geological Sur	O#			,	British G	eological Survey					sh Geologi	iai Suive				
									,			-					
	-																

Institute of Geological Sciences	6-in or 1:10 000 Ma	ap Registration No			
RECORD OF SHAFT OR BOREHOLE	ST 265	ST 26 SE /589			
Name and Number of Shaft or Borehole:  British Geological Survey	National Gri	d Reference			
Vn-named Shoft.  For whom made	2 <b>9</b> 37 62) <u>3</u>	基			
Town or Village County  Exact site (reference to a fixed point on 1-in or 1:50 000 Map)	1-in or 1:50 000 New Series Map No.	Enter 'C' if Confidential			
	108 .				
round level at shaft bore relative to O.Dm. If not ground level give O.D. of ade by					
British Geological Survey  Information from NCS No. 117	Date of sinking  Date of sinking  Examined by				
Specimen Numbers and Additional No	otes	, , , , , , , , , , , , , , , , , , , ,			

Geological Classification	Description of Strata	Thickness metres	Depth metres
-	No dekils known. WBRking fulledy 1912 (duplicate) thiss "Very old pat, or puted conte on full" 19 5/2/16		
-	WBRking fulling 1912 (dupliede) thatis		
-	Very old pat, organized cank on full " for Calor		
	12 3/0/%		
-			
D.20-1- 011-0	Date A. L. Coll College	Date 6-1-1-10	<del> </del>
British Geological Survey	Bolish Genlopical Survey	Bitish Geological Surve	
-		_	
		_	
	,		

**British** 

Version 2.0.6.6

BGS ID: 149260: BGS Reference: SJ26SE589 Geolo British National Grace Report an issue with this borehole British National Grid (27700): 329370,362730

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Page 2 of 2 🗸



Shaft		Name of Colliery	1	In Feet		Top of	National	Source to consult for information				Tr		
Regis- ter No.	Parish	& Name and/or No. of shaft or adit	Dia.	Depth	Depth to		Grid Co-ordinates	Abandonment Plans etc.			Other O S	Other Sources	In Insp. File	Remarks
/11 [5mm cm 2-53]		Rushley Justin C. 11. (?) (Lette Pambin Coll) Engine PK	Lwed/o/c	240' 16			2954 6345	1766 13434	F145W 1923	F 14 10 1870 Marrier CLITCUL ~1899	DIV-0-03	Dom des		No true 5/68 Stiff harted by doughing 10/1/12 Got and hick filled a not take to be called by Dot, so for the trustend with all his person on the you
British B In	eological Su	Billey Just CII. And Pol		40'		British	29422 (34.3 502013	Builday Justin 8977 Crank HRo			200			mo mu skg
/13							[2964 (315] Talan From NGB 1:11:56 SUPTOP	13474 (R19)						
114							[2957 6306] The for well 1:1056144 mp	4						
15		Banul Gle. ADIT Upcent		Barny 48' Roy L 183' Plan 168'			29 472 62 9fg), 980	Bennel Coll. 8841 Browy Royk 18mi						, u
110		Benel CH ADIT Dement		Anny 43' Roy L 123' Men - K1'			20 466 (2 <del>98</del> ? 970 ?	v						-
<b>#7</b> 9mis# G	Jeological St	NO J			-		29 372 (2 72 P Geological Surv SJ 26(2	<b>A.</b>		F 14,10 1899	STZMZ 1961	ritish Geolo		Yey
118		Padesword Rell CII. Bennel Pets No 2 Upcent		Ku' Premier			27 <b>2</b> 34 62445 57 2862	Redement Hell Gill. 4218 Hallin 17 Ba	F145V 1923	F14,10 1899 1912		130		Dynami 5/17
119		No 1 Downest		364' Branit 364'			29 267 62 448	ı	0	,		/30		19
li ç		Producerod hall GII. Branch Pets No 2 Upcart		Primier 36al Primier		British	(2 72 P Geological Sunv 55 72 fc2 29 234 62445 57 25 fc2 29 267	4215 Hollin 112	1923	/899 F/4,10 IS99 I912	(961	<i>1</i> 35	gical Su	Dynami 5/

IGS 1372 (1333) 5000 5/75	Institute of Geological Sciences  RECORD OF SHAFT OR BOREHOLE  In Geological Survey  Name and Number of Shaft or Borehote:  Staff of Holling's County  For whom made  Town or Village	6-in or 1:10 000 Map Registration No.  SJ265E 1088  British Geological Survey  National Grid Reference  1-in or 1:50 000 New Series Map No.  Enter 'C' if Confidential			
Briti	Purpose for which made  Ground level at shaft bore relative to O.Dm. If not ground level give O.D. of beginning made by	Date of sinking			

Specimen Numbers and Additional Notes

Site ust definite

sh Geological Classification	Description of Strata	Thickness	Depth metres
	28 yds & Canal (4fl) (25 60pm) (122)		
	(25 60m) (122)		25-6-
	British Geológical Survéy	Bridan Geological Survey	

2 ( SE

## WELSH NATIONAL WATER DEVELOPMENT AUTHORITY DEE AND CLWYD RIVER DIVISION

DETAILED HYDROGEOLOGICAL RECORD SHEET: INDIVIDUAL SITE RECORD

5,2684 1115 2402 6253

NAME

Padrosonal Hall

EXACT SITE KNOWN

YES/NO

LOCATION SKETCH

YES/NO

HEIGHT A.O.D.

METRES

ESTIMATED FROM

MAP/SURVEY

REFERENCE POINT

NONE/DETAILS/SKETCH

LOCATION OF LOG

HERE/I.G.S.

LOG

YES/MO

SUMMARY OF LOG

Drift # 1060's (1830) Coal Measures 10361'

Rockinstid of 92-35mm

WATER QUALITY

INFORMATION

YPS/NO

WATER LEVEL INFORMATION

ABSTRACTION

YES/NO/OCCASIONALLY/NOT KNOWN/STAND+BY

LICENCE NO.

LICENSED ABSTRACTION Geological Survey

/HOUR

/DAY

/YEAR

PUMPING TEST

YES/NO

DATE

LOCATION OF DATA

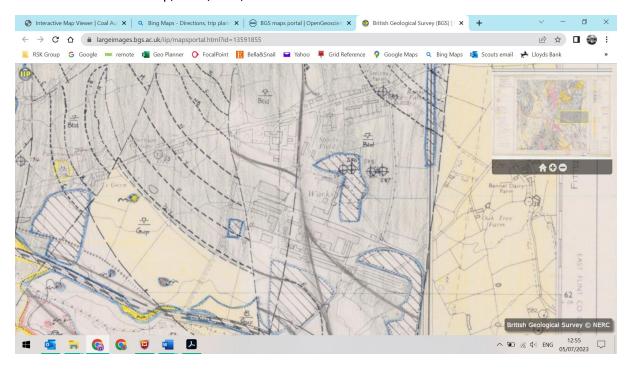
NONE/ISOLATED READINGS/MONTHY/I/AUTGORAPHIC

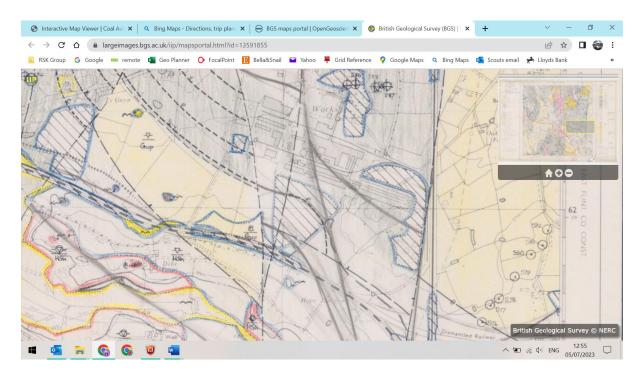


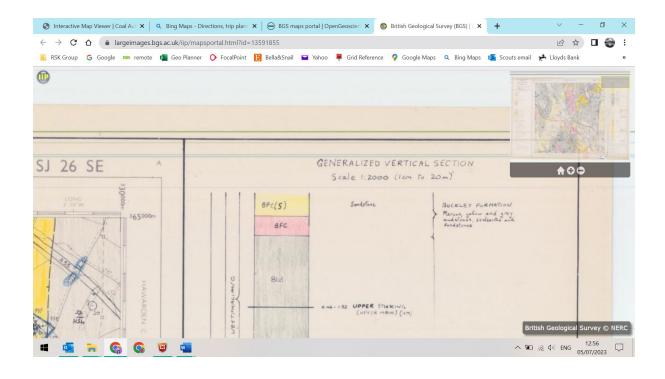
# APPENDIX F – BGS GEOLOGICAL MAP

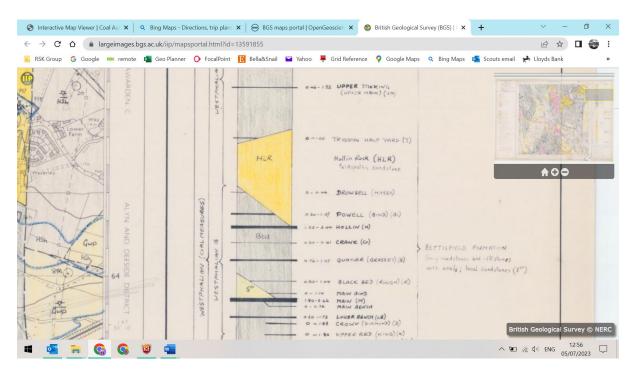


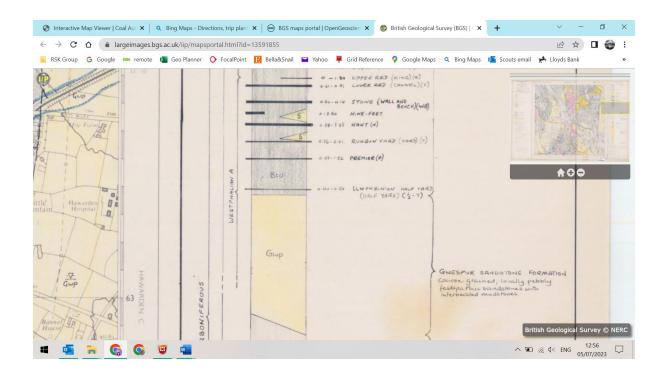
#### SJ26SE solid and drift map, 1993, 1:10,000 scale

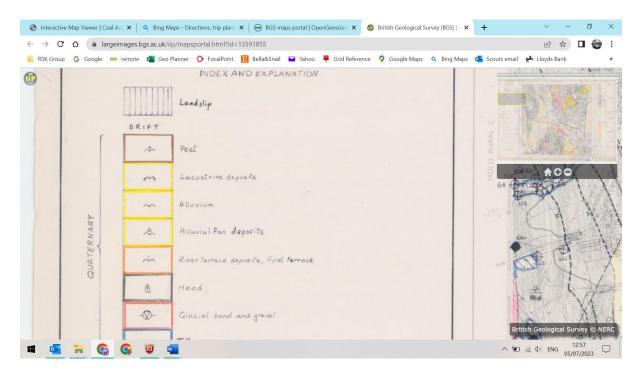


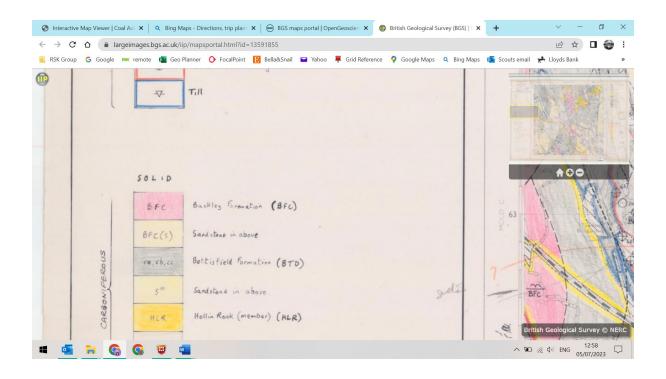


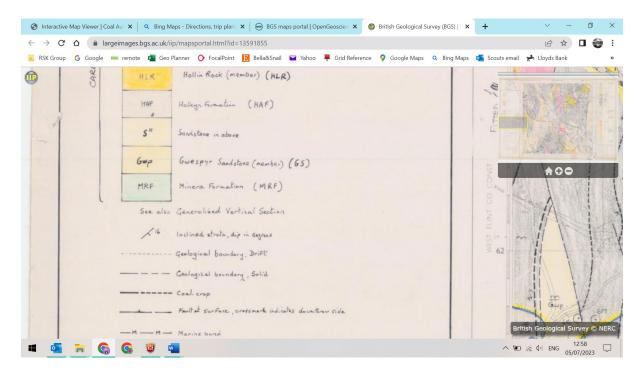


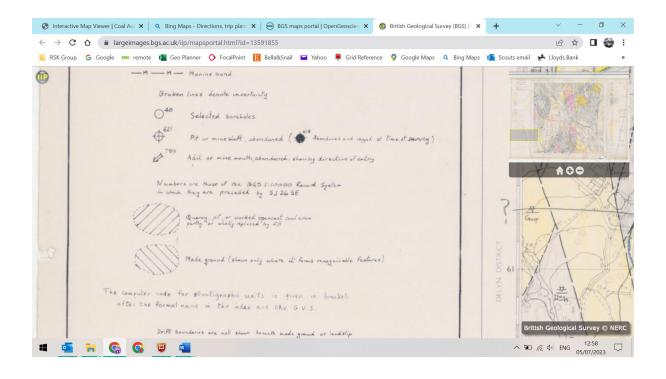


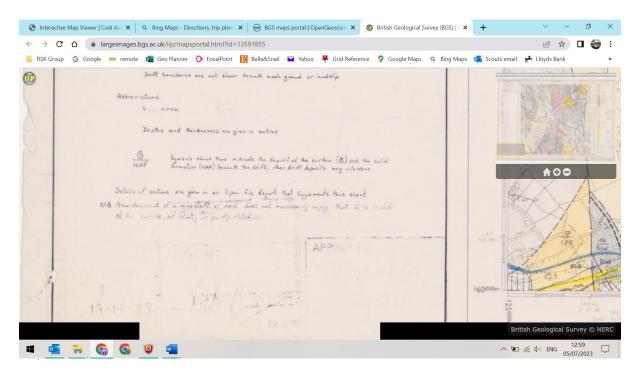




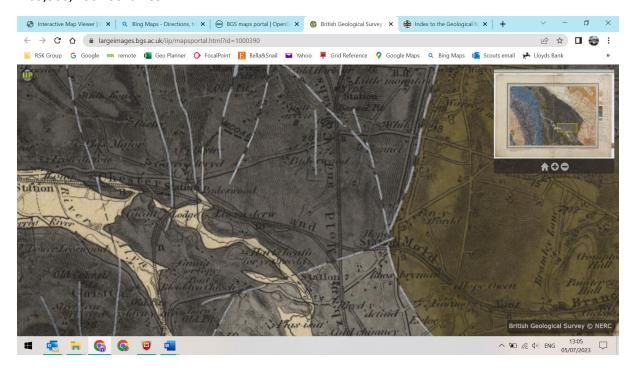






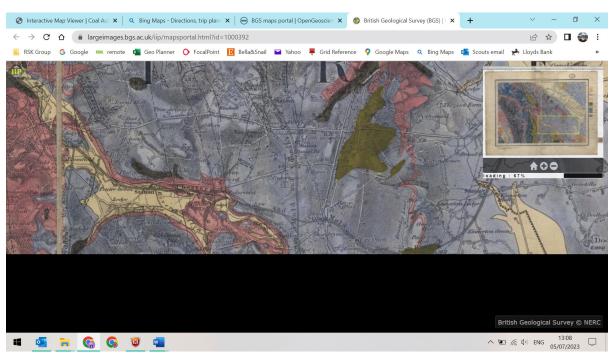


#### 1:63,360, 79SE Solid 1892



White lines are faults. Dark grey is Coal Measures

#### Drift edition 1892



Greyish blue is boulder clay

https://www.yumpu.com/en/document/read/38685647/coal-mining-records-at-flintshire-record-office-flintshire-county-

