

Castle Cement Limited

Carbon Capture and Storage Project – Padeswood, North Wales

Volume 4, Draft Technical Appendix 12.1

Preliminary Risk Assessment



JUNE 2024



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1 INTRODUCTION

1.1 Commissioning

- 1.1.1 RSK Environment Limited (RSK) was commissioned by Castle Cement Limited (the 'Applicant') to complete a Preliminary Risk Assessment (PRA) of the Site, as part of the Environmental Impact Assessment process for the Proposed Development.
- 1.1.2 The Site is located to the south of Chester Road, east of Padeswood and is currently occupied by an operational cement works.
- 1.1.3 The Proposed Development will incorporate primarily 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 **Volume 2**, **Chapter 2 Section 2.2** of the draft Environmental Statement.
- 1.1.4 RSK's service constraints are shown in Appendix A of the PRA.

1.2 Objectives

1.2.1 The objective of the work is to provide a report on the current status of the Site with respect to ground and groundwater related issues. This report considers potentially significant issues and recommendations will be included for further work, as appropriate.

1.3 Scope of works

- 1.3.1 The scope of this assessment has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in Land Contamination Risk Management (LCRM) (Environment Agency, 2021) – which supersedes CLR11 Model Procedures for Land Contamination – and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017). It is also compliant with relevant planning policy and guidance.
- 1.3.2 A brief summary of relevant legislation and policy relating to land contamination is given in **Appendix B** of the PRA.
- 1.3.3 The scope of works for the desk-based assessment includes the following:
 - Review of the history of development on the site and surroundings;
 - Assess the local geology, hydrogeology and hydrology;
 - Assess the potential risks from past, present and future coal mining activities;
 - Review relevant information held by appropriate statutory authorities;
 - Review any previous site investigation reports made available;



- Completion of a site reconnaissance survey to assess the visual condition of the Site;
- Development of an initial conceptual site model (CSM);
- Preliminary consideration of geotechnical constraints and hazards; and
- Identification of the need for further action, e.g. intrusive investigations, if any.

1.4 Existing reports

- 1.4.1 The following reports have been provided by the client for review as part of this desk-based assessment:
 - Phase 1 Contaminated Land Assessment, Padeswood Cement Mill 5. Golder Associates, May 2017;
 - Factual Report on Ground Investigation in the Areas of Raised Made Ground and Railway Track, Hanson Cement – Padeswood Works. Golder Associates, June 2017;
 - Updated Site Characterisation and Baseline Report, Padeswood Cement Works. WSP Golder, May 2022; and
 - Ground Investigation Report, Hanson Cement, Padeswood. Tier Consult, October 2022.
- 1.4.2 A summary of relevant information from these sources is provided in **Section 3.2**.

1.5 Limitations

1.5.1 This report is subject to the RSK service constraints given in **Appendix A** and limitations that may be described through this document.



2 SITE DETAILS

2.1 Site location

2.1.1 Site location details are presented in Error! Reference source not found. and a site location plan is provided on **Figure 1**.

Table 2.1 Site location details

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

2.2 Site description

- 2.2.1 The Site boundary and current site layout are shown on **Figure 1**. The Site covers an area of approximately 70.9ha and is currently occupied by a large cement works, owned and operated by the Applicant.
- 2.2.2 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, and 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 boundary is defined to the east by the Borderlands railway, running north to south, terminating at Wrexham General to the south and Bidston to the north, for onward connection to Liverpool.

2.3 Surrounding land uses

2.3.1 The Site is located west of Penyffordd and south of Buckley, with the village of Padeswood to the west. The setting is mainly agricultural, with some residential properties. Immediate surrounding land uses are described in Error! Reference source not found..

Table 2.2 Surrounding land uses

North	Chester Road on the boundary of the site with agricultural fields beyond. Residential properties along Padeswood Drive.
East	Railway line immediately adjacent to boundary, with farmland beyond
South	Dismantled railway along boundary with fields, woodland, streams and footpaths beyond



West

Agricultural fields to west, with sewage works approximately 500 m from the Site boundary





3 DESK-BASED ASSESSMENT

- 3.1.1 The desktop study was designed to meet the objectives of a preliminary (phase 1) investigation, as defined by BS 10175:2011 + A2 2017 (BSI, 2017) and this assessment relates to LCRM Stage 1, Tier 1 preliminary risk assessment. The "vicinity" of the Site for the purposes of this report is defined as locations situated within an approximate 250m radius of the Site. Although in some instances sources or sensitive targets could be considered that were at a greater distance than 250m, for this site, there were no such features requiring assessment.
- 3.1.2 The study aims principally to identify and assess the potential risks and liabilities associated with contamination of the ground, on and in the vicinity of the Site.

3.2 Review of available reports

3.2.1 Contaminated Land Assessment, Cement Mill 5, Golder Associates, May 2017

This report covered a section of the central area of the main Site as part of an Environmental Statement submission prior to construction of new sections of the cement works. A watercourse shown across the south and east of the site is labelled as Foundry Drain, which flows into Black Brook off-site to the south.

Previous intrusive works are referred to, dating from 1995 to 2007. Superficial geology is reported as comprising glacial till (sandy, gravelly clay), with made ground composed of kiln dust, silty sand, clayey silt, gravel, brick, plastic, wood, concrete, coal and shale. Coal seams were identified during works in 2007 at around 26.00m to 29.00m below ground level (bgl).

The Site has been an operational cement works from 1949, with areas of raised made ground, waste storage, fuel and chemicals storage, vehicle servicing and substations. There was also a rail line transporting coal onto Site, a tank near the rail cabin and the report indicated that there were no records of spills or leaks.

3.2.2 Ground investigation in the areas of raised made ground and railway track, Golder Associates, June 2017

This work was completed as part of planned re-profiling works to facilitate a new development area. The report referenced 14 trial pits excavated within made ground and the railway track area, with 23 samples having been submitted for laboratory analysis (Exova Jones report 1773079). The report assessed the made ground material and determined that it was appropriate for re-use on Site.

An historical landfill is located in the centre south of the Site, with the reference 152/87, NOW-439-L (issued on 4 November 1987). This was reportedly used for household and industrial waste (data taken from Envirocheck report, dataset from the Environment Agency (EA)).

The Site also had a waste licence issued in 2016 to permit the burning of waste to generate heat for industrial processes (permit licence BP3594FN, waste management



licence 37012). The report also mentioned a diverted watercourse in the north eastern section of the Site, with the original channel having potentially been infilled.

3.2.3 Updated site characterisation and baseline report, WSP Golder, May 2022

As a requirement of the environmental permit for the Site, nine new monitoring wells were installed in boreholes in moderate or high risk-defined areas. Two trial pits were excavated and gas monitoring was undertaken. Slight contamination was observed in soil and groundwater (slight hydrocarbon odours, chemical and organic odours and some chemical impacts to groundwater). Groundwater was measured at depths varying from 0.50m to 3.30m bgl.

The report noted that the southern landfill did not occur within an excavation, but involved deposition of waste on the existing ground surface. It is understood that waste was moved out of the development area, to be placed further south. The landfill in the northern area was noted to have accepted waste from the late 1950s, and was not expected to have been lined. The report recommended installation of one new monitoring well and ongoing groundwater monitoring.

3.2.4 Ground investigation report, Tier Consult, October 2022

A site investigation was completed which comprised four window sample boreholes, two cable percussive boreholes, three trial pits and four plate load tests. The work focused on an areas to the south east of the main operational buildings. Monitoring wells were installed in three boreholes, with two visits for groundwater monitoring.

The investigation identified clay over sandstone bedrock, with deep made ground (gravel and clay) in some locations and some layers of possible relict topsoil.

3.2.5 Padeswood Water Supply Feasibility, Envireau Water, May 2022

This report provided a feasibility assessment relating to providing additional water abstraction capacity for the Site. The options considered were the currently operated abstraction boreholes in Kinnerton (off-site to the east by 4.5km), or new boreholes within the Padeswood site boundary.

The report included a review of the baseline conditions within the Site boundary, details of which have been integrated into the relevant sections of this report, where appropriate. The report recommended that additional extraction from the existing Kinnerton boreholes would be the best technical option.

3.2.6 Geotechnical Site Investigation, Padeswood Works Part B, Earth Environmental and Geotechnical, July 2023

This report was prepared by Earth Environmental and Geotechnical (EEG) as part of the support works for the Proposed Development. The area covered by the investigation is the south western section of the Site, where the main project structures are intended to be located. The work involved drilling 13 rotary boreholes to depths of 30m and five shallow boreholes along the access road along the western Site boundary.



The boreholes identified superficial units comprising layers of sand and clay, overlying bedrock formed by sandstone and mudstone. In the area of the site that was investigated, bedrock was measured to be at 17.8m to 32.5m bgl.

The investigation included both a geotechnical assessment and contamination assessment, and provided the following conclusions:

- Shallow foundations are possible for lightweight structures;
- Heavier structures will need friction piles or end-bearing piles;
- Risks from contamination are assessed to be low in relation to construction workers and future site users;
- No remedial measures are recommended with respect to contamination;
- The site is within an area where naturally occurring radon potentially presents a risk within future buildings. The report recommended either radon gas remedial measures in buildings, or commissioning a site-specific soil gas survey;
- No coal mining related issues are identified in the section of the Site that was assessed; and
- A flood risk assessment was indicated to be a requirement of a future planning application.

3.3 Site history

3.3.1 Historical development record

The development history of the Site and surrounding area based upon assessment of historical plans and records is detailed in Error! Reference source not found..1 and **Table 3.2**. The historical maps reviewed are shown within the environmental database report in **Appendix C**.

Table 3.1 Summary of historical development on-site

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 part includes two areas of water. A further coal shaft is marked on the far northern edge of the Site, towards the east.



Date	Historical Details				
	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.				
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 corner of the Site 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 are 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 v end of the cement works buildings, which is later labelled as an substation.					
1981 Two large lagoons are shown in the centre of the Site, south of th cement works buildings.					
1999	The lagoons are no longer marked on 1999 mapping.				



Date	Historical Details
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.

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.

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.

In summary, the key features identified from historical maps are:

- · Coal shafts in the central and north eastern areas of the Site;
- A former colliery in the centre of the Site;
- Gravel pits and lagoons in the area south of the main cement works buildings which have been infilled;
- Possible embankments along the lines of railway tracks;
- Possible made ground to construct surface water features in the south of the Site;
- Possible impact from railways along Site boundaries; and
- Possible contamination from long-term presence of cement works.

3.3.2 Unexploded ordnance

A review of publicly available unexploded ordnance (UXO) risk maps indicates that the Site is located in an area with low potential for wartime bombs to be present (see **Appendix F**).

3.4 Information from environmental database report

3.4.1 Relevant environmental permits and incidents detailed within the environmental database report (see **Appendix C**) are summarised in **Table 3.2**. Note that the numbers listed against the columns for entries for some items on-site or off-site relate to active permits, consents, etc. Details of inactive features may be included in the final column if considered relevant.



Data type	Entries on-site	Entries <250m from site	Entries >250m from site	Details			
Agency and hydrological							
Environmental permits – incorporating Integrated Pollution Prevention and Control, Integrated Pollution Controls, Local Authority Integrated Pollution Prevention and Control	1			On-site: Castle Cement Ltd (numerous superseded and one current, issued in 2005) for cement/lime manufacture and associated processes, including use of waste as a fuel. On-site: revoked permit for Hanson Brick Ltd for coal, coke and coal products processes (dates issued or revoked not given) Off-site 13.00m to NE: 4 x 4 centre for waste oil burners.			
Enforcement and prohibition notices	2	0	0	Two enforcement notices exist on-site. The first was in 2002 for unauthorised emission of dust after plant breakdown. The second was for breaching the emissions limit for dioxins (date not given).			
Pollution incidents to controlled waters	2	0	9	All incidents over 20 years ago, most minor, involving sewage or fuel spillages. On-site incidents diesel (1995) and mud/ clay/soil (1991).			
Prosecutions relating to controlled waters	3	0	1	On-site: Three occasions of failing to comply with licence			

Table 3.2 Summary of environmental permits, landfills and incidents



Data type	Entries on-site	Entries <250m from site	Entries >250m from site	Details
				conditions (most recent 2010). Off-site: 902.00m to north east, breaching condition of authorisation (1999).
Substantiated pollution incident register	1	0	3	On-site: diesel release to water (category 2, 2020). Off-site: incidents involving grey water, noise and dust from 2006 to 2014.
Water Industry Act referrals	0	0	0	
Discharge consents	0	0	1	On-site: two revoked consents for final effluent to tributary of Black Brook (Castle Cement Limited). Off-site: most consents revoked. Active consent for domestic property 438.00 m to north.
Registered radioactive substances	0	0	0	
Landfill and waste				
Active landfills	1	0	0	Licensed landfill, issued 1987, industrial waste.
Historical landfills	1	1	3	On-site: Castle Cement (1950-dormant) for waste produced on-site only. Off-site: inert waste sites 108.00m to south east (1986-1988) and 718.00m to south (1987-



Data type	Entries on-site	Entries <250m from site	Entries >250m from site	Details				
				1988) and three sites for inert, industrial, commercial, household and special waste (633.00m west, 1982-?; 969.00m west, 1975- 1980; and 570.00m east, 1971-?).				
Other waste management licences	, 0	0	1	Off-site: waste management facility for trade effluent services (issued 2021).				
Potentially in-filled land (pit, quarry, pond, marsh, river, stream, dock etc)	Yes	Yes	Yes	The Site is in an area where coal mining has occurred and opencast excavation for minerals has also been noted on the site and surrounding area.				
Hazardous substanc	Hazardous substances/ industrial land uses							
Control of Major Accident Hazards (COMAH) sites	0	0	0					
Explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS), Planning hazardous substance consents/ enforcements	0	0	0					
Contaminated land Part 2A register entries and notices	0	0	0					
Contemporary trade directory entries	1	1	4	On-site: Hanson Cement. Off-site: car dealers 43.00m to north east, vehicle garages/MOT				



Data type	Entries on-site	Entries <250m from site	Entries >250m from site	Details
				centres 514.00m east and 734.00m south east, engineering works 782.00m south and food manufacturers 792.00m east.
Fuel station entries	0	1	0	Off-site: 40.00m east, obsolete BFL fuel station

Note: Entries have only been included within the table where they are located within a 250.00m radius of the Site or, where they fall outside of this radius but are considered to comprise a significant entry.

3.5 Information from consultee responses

- 3.5.1 Responses were obtained from consultees relating to the Scoping Report for the Proposed Development. With respect to Land and Soils issues, Natural Resources Wales indicated that consideration would be required of '*the active landfill in the south and historical landfill north of the site that appear in Natural Resource Wales's records*'. Natural Resources Wales also included the following comment:
- 3.5.2 'Trial pit and borehole locations might be relevant to the wet sand mill, limestone store and CHP post combustion and carbon capture and compression plant development and should be investigated further'.
- 3.5.3 Natural Resources Wales advised a bespoke site investigation should be undertaken, with an associated risk assessment through the development of a conceptual site model.
- 3.5.4 The Coal Authority confirmed that the site falls within the Development High Risk Area. The Coal Authority identified the presence of five on-site mine entries and recorded shallow coal workings and was of the opinion that building over the top of, or in close proximity to, mine entries should be avoided wherever possible. The Coal Authority agreed that a desk based Preliminary Risk Assessment should be prepared in support of the application.
- 3.5.5 It was also noted that there was a risk of mine gas at the Site, however the Coal Authority only provides comments if gas emissions have been recorded on the Site. The Coal Authority therefore advised consultation with the Local Planning Authority on this matter.
- 3.5.6 The Coal Authority also advised that an assessment be carried out by a technically competent person to understand the potential interaction between hydrology,



proposed drainage systems (SUDs) and drainage ground suitability, as mine workings might have been present beneath the Site.

3.6 Site services

- 3.6.1 Buried utility services and their backfill can provide preferential pathways for gas, vapour or groundwater to migrate along to another part of the Site or to a receptor. They can also represent significant constraints to development.
- 3.6.2 Obtaining a full set of service plans was outside the scope of this report. Services identified on-site during the walkover are detailed in **Section 4**.

3.7 Site geology

Anticipated geological sequence

3.7.1 Geological records for the area and available historical borehole logs (British Geological Survey data available online, accessed January 2023) indicates the geology of the Site to be as detailed in **Table 3.3**. There are seven publicly available British Geological Survey historical boreholes located on or within 250.00m of the Site, copies of which are presented in **Appendix E**.

Strata	Description	Estimated thickness	Permeability
Made ground	Material placed by during development of the Site, possibly containing anthropogenic material. Located along southern railway and in three main locations within the Site (centre south, centre north and east centre).	0m to 5m	Variable
Devensian Till	Consisting of a mixture of clay, sand, gravel, and boulders varying widely in size and shape. Covering majority of the Site.	8m to 12m	Secondary aquifer, undifferentiated
Head deposits	Clay, silt, sand and gravel. Located in small area along western half of the 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.	180m to 200m	Secondary A aquifer

Table 3.3 Site geology



Strata	Description	Estimated thickness	Permeability
Gwespyr Sandstone	Fine-grained, sandstones, with some siltstone and mudstone beds. Present in the south east and south west parts of the Site.	40m to 150m	Secondary A aquifer

- 3.7.2 Geological faulting is present across the Site, with major faults shown crossing approximately north to south on the eastern Site boundary and through the centre.
- 3.7.3 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.
- 3.7.4 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.
- 3.7.5 A review of information provided on the borehole records from the British Geological Survey shows that most of these relate to mine shafts, with little information available beyond the actual 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 at a depth of 25.60m bgl, of 1.20m thickness;
 - 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 a higher seam), at a depth of 137.20m;
 - 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').



 Borehole reference SJ26SE115, located between Padeswood Hall and Padeswood Farm buildings. This indicated the presence of superficial deposits to 18.30m bgl, with bedrock classified as Coal Measures present to 330.10m.

On-site geology from previous investigations

3.7.6 The EEG report from July 2023 involved drilling of 13 boreholes and five shallow window sample holes in the south-western area of the site. That report also made reference to two boreholes drilled by Terra97 in the centre of the main operational area of the cement works (the date of this investigation, or a report reference, are not provided). Details from these boreholes are provided in this section.

Terra97 boreholes in operational area of cement works:

- 3.7.7 RBH1: made ground (thickness not indicated) over superficial deposits of cohesive and granular material to 19m bgl. Bedrock of medium strong to strong sandstone and extremely weak to weak siltstone (Pennine Lower Coal Measures). No significant groundwater strikes and no evidence of historical mining.
- 3.7.8 RBH2: made ground (thickness not indicated) over superficial deposits of cohesive and granular material to 18.5m bgl. Bedrock of medium strong to strong sandstone and extremely weak to weak siltstone (Pennine Lower Coal Measures). Assumed water strike at 13m bgl, causing 'blowing sands'. No evidence of historical mining.

EEG shallow boreholes along access route:

3.7.9 Made ground was present in three window samples (adjacent to the existing area of hardstanding). In WS4 and WS6 this was 0.5m to 0.6m thick and comprised silty sandy gravel with gravel and cobbles of limestone and concrete. In WS5 the made ground was significantly thicker, present to a depth of 2.4m and comprising layers of sand, clay and gravel with limestone, mudstone and clinker. Beneath the made ground, deposits were fairly consistent, with clay, sand and clay layers to the base of drilling (5m bgl). In two locations there was also a final layer of gravel (WS4 and WS6). Shallow groundwater was recorded at depths between 2m and 3.8m bgl.

EEG rotary boreholes within south-west corner of site:



- 3.7.10 Topsoil was present at the surface in all boreholes, over alternating layers of sand, clay and gravel to depths of between 18.4m and 32.5m bgl. Bedrock was present as weathered sandstone and mudstone.
- 3.7.11 Peat was recorded in one location, RC13 from 3.1m to 3.4m and from 4.9m to 5.25m bgl.
- 3.7.12 Coal was identified in only one location (RC10), in the centre south area of the Area B section of the site. This was at a depth of 17.8m to 18.4m.
- 3.7.13 Groundwater was identified in RC1 at 7.5m bgl, in RC5 at 18.2m bgl and in RC10 at 18.4m bgl. However, the drilling technique used water flush methods, and therefore it is not always possible to detect groundwater levels.
- 3.7.14 The EEG report should be referred to for geotechnical details and the contamination assessment from the investigation. The assessment concluded that there was no risk to the health of end-users of the site from potential contaminants of concern. With respect to controlled waters, the assessment showed a single exceedence of a guideline value for one sample, with a lead concentration of 625µg/l.

Radon

- 3.7.15 The environmental database report indicates that the Site is partly within higher and intermediate probability radon areas. A higher probability radon area is defined as having 10% to 30% of homes estimated to be above the radon action level. An intermediate area has 3% to 5% of homes estimated above the action level.
- 3.7.16 Although the radon data used in production of the ukradon.org indicative atlas comes from measurements in homes, the maps indicate the likely extent of the local radon hazard in all buildings.
- 3.7.17 In Affected Areas radon concentrations are generally low in well-ventilated workplaces such as workshops, but problems have been found in some more confined workplaces, such as offices, where rates of ventilation are relatively slow. HSE guidance suggests that where a premise is in an Affected Area, the employer should take a precautionary approach and undertake measurements in all premises located within an Affected Area. Based on the information in the database report, consideration of radon will be required for new structures and buildings proposed as part of the Proposed Development. Further assessment may be necessary, in line



with the guidance provided in BRE publication 211 "Radon: Guidance on Protective Measures for New Dwellings (2015)".

3.8 Mining, quarrying and landfilling

3.8.1 Evidence has been sought to identify any mining, quarrying, landfilling and land reclamation operations, past and present, which have taken place within 500.00m of the Site.

Coal mining area

- 3.8.2 The Site is located over Coal Measures bedrock and may therefore have been affected by coal mining activities. In these areas the assessment of mining legacy issues should be carried out in accordance with the guidance provided by the Coal Authority, who adopt a risk-based approach for the advice that they offer on proposed development sites. The Coal Authority are a statutory consultee to Local Planning Authorities in respect of building development within the defined coal mining areas of England, Wales and Scotland where a planning application is required.
- 3.8.3 An initial site appraisal has been carried out based on the information provided on the Coal Authority Interactive Viewer of the UK Coalfield areas.
- 3.8.4 This indicates the site lies within the Coal Authority Consultation Area and includes several Development High Risk Areas. It is a requirement for development within a High Risk Area to prepare a desk-based Coal Mining Risk Assessment report to support planning applications for new building developments. A Coal Authority Consultants Report has been obtained for this site, as presented in **Appendix D**. An overview of coal mining issues is provided here, but a full Coal Mining Risk Assessment is provided in **Volume 4**, **Technical Appendix 12.2**.
- 3.8.5 The key findings from review of the datasets from the Coal Authority Interactive Viewer and the Coal Authority Consultants report are summarised in **Table 3.4**.

Item	Applicable to site	Comment
Development High Risk Area on-site	Yes	Discrete areas around the known colliery and historical mine shafts.
Coal mine entries	Yes	Four in the central northern area of the Site, one on the very northern Site boundary in the north eastern corner (unclear whether this would actually be inside or outside the Site boundary) and one outside the Site to the south, close to the south eastern corner.

Table 3.4 Summary of coal mining information



Item	Applicable to site	Comment
Past shallow workings (recorded)	Yes	The Coal Authority report lists five instances of workings beneath the Site, at depths ranging from 14.00m to 40.00m bgl. In all cases the extraction thickness is listed as 1.20m, and these records all relate to the Hollin seam.
Probable unrecorded shallow workings	No	
Coal seam outcrops	No	
Surface mining (opencast)	No	
Other	Geological faults	North-south trending geological faults are present across the Site.

3.8.6 Based on the available information for the Site, and the known coal mining history, a Coal Mining Risk Assessment has been produced as provided in **Volume 4**, **Technical Appendix 12.2**.

Areas of other (rock or mineral) mining

3.8.7 Fireclay and brick clay are deposits that can be found associated with coal seam layers. Both of these units are indicated to be potentially present in the same area as the coal deposits across the Site. However, there are no records to suggest that separate workings have occurred in these units.

Landfilling

- 3.8.8 The Envirocheck report shows two areas of landfilling within the Site boundary, as discussed below.
- 3.8.9 **On-site historical landfill site, northern section of Site:** a historical landfill site licensed to Castle Cement Limited was indicated by the records to have been located within the centre/east of the northern half of the Site. Waste was reported to have been deposited from 1950, but the last date of input is not listed. Deposited waste is recorded in the Envirocheck as having included household and industrial waste, but information provided by the site contact indicated that only site-derived waste was placed here (potentially comprising kiln dust, but specific details are not known). In this area of the Site there are currently significant areas where the ground level appears to have been raised, along the route of the watercourse and further west. This landfill was assigned reference number EAHLD14734, and alternative references of 152/87 and NOW-439-L.
- 3.8.10 **Recently closed landfill site, southern section of site:** A more recent landfill site is located within the centre of the southern section of the Site, originally issued to



Castle Cement Ltd in 1987. This licence was for industrial waste but the site is dormant according to the Envirocheck report. The deposition of waste ceased in 2005. However, information provided by the client includes a Landfill Closure Report (Golder Associates, 2015) for this landfill, which indicated the landfill site was *'progressing towards definite closure'*. Waste types are recorded to have included inert non-toxic waste, off-cuts of ferrous and non-ferrous metals, packaging material, paper and plastic. This site was formed directly on the existing ground surface (i.e. not within an excavation), with no liner, and it was indicated that waste types were predominantly inert. A capping layer was constructed which comprised:

- 200mm blinding clay layer;
- Bentofix 4900-1 Geosynthetic Clay Liner (GCL);
- 250mm protective clay;
- Up to 750 mm of restoration soils in areas where tree planting was undertaken; and
- 150 mm of topsoil.
- 3.8.11 An active gas control system was not required due to the waste types accepted.
- 3.8.12 Information provided by the Site contact indicates that this landfill was formed during levelling works to construct facilities in the central area of the Site. This landfill was formed on the existing ground surface, not within an excavation (Golder Site Characterisation Report, 2017). Reference numbers associated with this landfill are: 37012, BP3594FN, 102/77, 152/87 and NOW-439-L.
- 3.8.13 Although two discrete locations are indicated by the landfill boundaries provided in the Envirocheck report (map identification numbers 168 for the northern site and numbers 173, 174, and 177 for the southern site), there is a discrepancy with landfill reference numbers (one of the alternative references for the northern site being the same as one of the reference numbers for the southern site). Attempts were made to clarify the situation with respect to these sites. Natural Resources Wales were contacted, but responded that they only held information regarding the southern site (recently closed), and had no information on the northern site. Flintshire County Council were contacted, and advised that their records only provided the site location and type of waste deposited (i.e. the information provided by the Envirocheck report). It was noted that this level of information was typical for the time at which the landfill was operating, and that no other details would have been expected to have been kept.
- 3.8.14 Based on the information that has been gathered, it is considered likely that the northern area was subjected to placement of site-won material, which remains



visibly evident on-site, but that importing of off-site waste was unlikely given the absence of any knowledge of this by site personnel.

3.9 Hydrogeology

3.9.1 A summary of the hydrogeological setting of the Site, with respect to the anticipated geological sequence set out in **Section 3.7** is presented below in **Table 3.5**.

Table 3.5 Summary of hydrogeological setting

Condition	Description
Aquifer characteristics	The Site is underlain by bedrock that is classified as a secondary A aquifer, and superficial deposits are classified as a secondary undifferentiated aquifer. Bedrock aquifers will generally be connected via fractures and joints, with low primary porosity.
Depth to groundwater and flow	Shallow groundwater, if present within the Site boundary, would be anticipated to flow generally towards the watercourse crossing the Site. Shallow water may be present in made ground deposits present on-site. The groundwater level is estimated to be within 25.00m of ground level at the site (Padeswood Water Supply Feasibility report, Envireau Water, 2022)
Rising groundwater levels	The Site is located in a former coal mining area and may be associated with rebounding groundwater levels following the end of mining and associated dewatering. However, given the time that has elapsed since mining operations ceased, this is not expected to be an issue at the Site.
Groundwater recharge/ attenuation	Most of the Site is currently unsurfaced and will therefore drain to ground. In areas around existing buildings a drainage system is maintained by the site operators. The presence of low permeability till deposits across the Site will limit recharge of bedrock aquifers.
Historical implications for hydrogeology	The existence of historical mine shafts and underground workings could influence the site hydrogeology by increasing the connectivity of bedrock units. The presence of made ground deposits and areas of landfilling could have affected the natural hydrogeological regime. Water quality may have been affected by historical coal mining, potentially being acidic, very hard water with high concentrations of iron, manganese and sulphate.



Condition	Description
Licensed groundwater abstractions	The environmental database report indicates that there is one current licensed groundwater abstraction within a 1km radius of the Site (located 637.00m to the south east).
Source protection zones	Information available in the Envirocheck report indicates that the Site does not lie within a currently designated groundwater Source Protection Zone (SPZ).

3.10 Hydrology

3.10.1 An overview of the hydrology within the site area is summarised in **Table 3.6**.

	Condition	Description
	Surface watercourses/ features	There is an unnamed ditch network spanning the perimeter of the Site boundary. A north–south aligned watercourse runs the length of the western Site boundary. A north-south aligned unnamed watercourse runs through the north east and eastern section of the Site boundary.
		A section of watercourse runs from the eastern extent of the existing plant in a south westerly / southern direction. The watercourse turns to the west and runs along the southern boundary, continuing beyond the site eventually discharging into Black Brook to the west. Black Brook flows in a south-easterly direction, meeting the River Alyn approximately 2.5km south-east of the site.
		A stream flows through the Site roughly from north to south, passing through the Eco Centre area before being culverted beneath the operational area in the centre of the Site. There is a settling lagoon for surface water run-off in the south east of the Site. Harvested rainwater is used for cooling in the existing cement plant. There is also a lined water feature in the south west corner.
		Land along the southern section of the Site appeared to be prone to waterlogging.
		The watercourse is in quite a deep channel in the northern and parts of the southern area of the Site.
		A section of ditch or drainage channel was present to the east of the coal shed which did not appear to be connected to the flowing stream. Water within this channel was still and impacted by white/cream sediment.



Condition	Description	
Surface water abstractions	There are no surface water abstractions identified by the environmental database, within a 1km radius of the Site.	
Site draipage	Surface drainage from the Site within the operational areas enters the site drainage system. Around the remainder of the Site, precipitation appears to drain to ground.	
Site drainage A water treatment facility is operated as part of the cement operation and other potentially contaminated water is also collected and fed through an interceptor.		
Preliminary flood risk assessment	The indicative floodplain map for the area, shows that the Site is not within areas at risk of flooding.	

3.11 Sensitive land uses

3.11.1 **Table 3.7** provides a summary of any environmentally sensitive areas identified within 250.00m of the Site based on the environmental database report.

Table 3.7 Environmentally sensitive areas

Feature	Present within 250m of site?	Details	Likely pathways from site?
International designations – Ramsar wetland, Special Area of Conservation (SAC), Special Protection Area (SPA)	No	N/A	
Ancient woodland	Yes	120.00m west	No – ditch along entire western boundary of the Site, unlikely for contamination to migrate this distance
Local designations – Local Nature Reserve, Site of Importance for Nature Conservation (SINC)	No		



Feature	Present within 250m of site?	Details	Likely pathways from site?
Nearest high sensitivity development, e.g. residential	Within boundary	Properties in north eastern corner of Site	

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4 SITE RECONNAISSANCE FINDINGS

- 4.1.1 A site reconnaissance survey was completed on 08 February 2023 by RSK. The characteristics of the Site observed during the walkover and from current Ordnance Survey maps are summarised in **Table 4.1**. The Applicant's Environmental Manager accompanied RSK personnel for the section of the Site around the operational areas.
- 4.1.2 Buildings were not entered as part of this walkover.
- 4.1.3 A site plan is provided in **Figure 1** and photographic records are included in **Appendix G** detailing the main features identified below.
- 4.1.4 Whilst the walkover summary includes consideration of current operations and housekeeping on the Site as potential sources of contamination, it does not constitute a comprehensive environmental audit of the Site, as expected under ISO 14001.

Feature	Description		
Physical char	Physical characteristics		
Access constraints	Operational areas of the Site accessible from Chester Road to the north. Some areas of the Site not accessible due to vegetation and occasional areas of steep slopes.		
Site topograph	which is the area defined as a landfill on the Envirocheck mapping. There is some evidence of soil being removed to level an area		
	of car park in the centre west of the Site (small mounded areas of soil around the perimeter).		
Surface cover	Operational areas around buildings are mainly covered by hardstanding, with some areas of gravel. Other areas of the Site are predominantly vegetated, with large areas of grassland, woodland, vegetated field boundaries and areas of overgrown vegetation. The aerial photograph of the Site provides the best indication of proportions of the Site that are vegetated and hardstanding (see Figure 1). Sports pitches are present in part of the north eastern area of the Site.		

Table 4.1 Site reconnaissance findings



Feature	Description	
Site drainage	In operational areas, drainage is managed to ensure that all run-off is directed into the site drainage system for appropriate treatment prior to discharge. Away from operational areas, the drainage is generally through the ground surface and via drainage ditches.	
Surface water	A stream passing through the Site (from north to south) is culverted beneath part of the operational area. There is also a stream channel which did not appear to have any water flowing through it, to the east of the operational area. This contained some standing water that was impacted by a white/pale brown substance. There are areas of standing water (ponds and reservoirs) in the southern part of the Site. The stream that passes through the Site is a tributary of Black Brook (present off-site to the south).	
Trees and hedges	The operational central areas of the Site are free from vegetation. There are large areas of woodland in parts of the northern area of the Site (including the area used as an Eco Centre in the centre northern part of the Site and around Padeswood Hall in the north western corner) and in the south eastern area. There are also mature trees present along field boundaries in many locations.	
Existing buildings on-site	There are extensive buildings and infrastructure associated with the operational site facilities across the central part of the Site. In addition, there are residential properties in the north east corner of the Site (these were not included within the site walkover), Padeswood Farm (occupied) in the north west, and derelict Padeswood Hall, also in the north west. There is a sports pavilion and small toilet block in the north eastern site area adjacent to the sports pitches. Some temporary buildings are present in the Eco Centre area.	
Retaining walls and adjacent buildings on or close to Site boundary	There are no such structures observed on or close to the Site boundary.	
Basements on- site	A full tour of operational buildings was not completed as part of the walkover, but the site representative reported that basements were present in some of the older operational buildings. Newer operational buildings were constructed so that basements were not required.	



Feature	Description		
	No evidence of existing or infilled basements was observed.		
Made ground, earthworks and quarrying	There are large areas of made ground placed on top of the ground surface to the north of the eastern buildings. The made ground was landscaped along the western side of the watercourse, reaching significant heights in places, and with some quite steep slopes. An area marked on mapping as a landfill can be identified onsite with significantly raised ground level, with steep grassed slopes. There was also evidence of earthworks in the south western site corner, around a reservoir. This was reported by the site representative to have been constructed as a landfill cell, which was never used, and was later repurposed into a biodiversity area with a water body in the landfill cell. Around an area of car parking on the western side of the Site there was evidence that surface material had been scraped to the side to form a level area, with a limited mound of made		
Potentially unstable slopes on or close to the Site	ground material present to the north of the car park. None observed. Although some areas of made ground north of the operational buildings was steeply banked, there was no evidence noted of any movement of slopes. Steep slopes associated with the landfill area in the centre south of the Site are all vegetated with grass, again with no evidence of movement. The natural channel of the surface water course has resulted in a channel that is slightly lower than the ground surface, but the presence of mature trees appeared to be preventing any instability in these sections.		
Buried and overhead services present	The site representative advised that below-ground services are present, with at least one services tunnel pointed out between operational parts of the Site. A culvert is present in one location (near the eastern end of the operational buildings). Overhead power cables are present crossing the Site in the north west and south western sections, and along the western boundary in the centre.		
Environmental ch	characteristics		
Underground/ above ground storage tanks and pipework	None below ground tanks observed. Above ground tanks and associated pipework present in a number of locations, including an area with diesel, ammonia, and two cemfuel tanks and a separate large diesel tank.		



Feature	Description	
	It was noted that ammonia used on site is 24.5% concentration, which means that the site does not need to be classified as a COMAH site.	
Potentially hazardous materials storage and use	See details of tanks, above. Sewage treatment facility present in western area of the Site.	
Asbestos- containing materials	A detailed survey of the buildings would be required to confirm the presence or otherwise of asbestos-containing materials. Based on the date when much of the buildings and infrastructure where constructed, it would be expected that asbestos would be present.	
	There was no evidence of possible asbestos-containing materials elsewhere on the Site (for example in areas of fly- tipping or made ground).	
Waste storage	Site house-keeping was observed to be good. A waste storage area was present to the west of the main buildings, with various skips for different waste streams. There were also marked areas for storage of waste oil prior to removal from the Site, along with waste such as oily rags. Large skips were also present on the south side of the operational buildings for inert waste. There was an area of what appeared to be waste present in the north eastern area, including concrete fragments, corrugated metal sheeting, plastic barriers and miscellaneous items. This area also contained equipment and vehicles.	
Fly-tipping	Waste was present as noted above, but this was assumed to be site-derived, as opposed to illegally tipped.	
Electricity sub- stations/ transformers	There were a number of substations across the Site, some of which are integrated into buildings, and others were present in separate compounds.	
	Exterior compounds were constructed recently.	
Evidence of	House-keeping in operational areas was good and there was no evidence of spillages or accidental releases of fuels or chemicals.	
possible land contamination on-site	The made ground present in the area north east of the operational area may include components that are contaminative.	
	The raised land indicative of the landfill area in the centre of the south of the Site may also include some contamination.	



Feature	Description
	The ditch curving around the eastern end of the operational area was observed to contain standing water impacted by a white/pale brown substance.
Potential off-site sources of ground contamination	A railway is present along the eastern and southern Site boundary. Most of the surrounding land is agricultural.

- 4.1.5 Potentially significant land contamination issues are summarised below:
 - Extensive area of made ground around the north/north-east of the operational area, comprising unknown material (correlating with the area that was regraded/landscaped as part of the Mill 5 development);
 - Large mounded landfill area in the centre south of the Site;
 - Earthworks to construct 'landfill cell' that was not used for waste, but was later repurposed as a biodiversity area;
 - Visible impact in standing water in channel/watercourse east of operational buildings; and
 - Hazardous ground gases may be present on-site as a result of the presence of historical coal mining beneath the Site.
- 4.1.6 Potentially significant geotechnical issues arising from the survey are summarised below:
 - There is an extensive area of made ground around the north/north-east of the operational area with some steep slopes. These could pose significant geotechnical issues, depending on the exact locations of the project facilities; and
 - Coal mining is known to have occurred historically within the Site, and this includes mine shafts and shallow coal workings within the Site boundary.



5 INITIAL CONCEPTUAL SITE MODEL

- 5.1.1 In the UK land contamination is assessed using a risk-based approach taking account of the magnitude (severity of the hazard) and likelihood (probability) of occurrence. A 'receptor' is something that could be adversely affected by contamination (e.g. people, an ecological system, property or a water body). A 'pathway' is a route or means by which a receptor is or could be exposed to or affected by a contaminant. A 'contaminant source' is a hazard but it can only pose a risk to a receptor where a pathway is present. The relationship between sources, pathways and receptors are referred to as a conceptual site model (CSM). A risk can only be released where a contaminant source, pathway and receptor are all in place, referred to as a 'pollutant linkage'.
- 5.1.2 In line with LCRM (Environment Agency, 2021) and BS 10175: 2011 + A2 2017 (BSI, 2017), RSK has used information in the preceding sections to identify hazards (sources of contaminants), receptors that may be impacted and plausible linking pathways. Where all three are present this is termed a potentially complete contaminant linkage and a qualitative risk estimation is made.

5.2 Potential soil, soil vapour and groundwater linkages

Potential sources of contamination

5.2.1 Potential sources of soil and groundwater contamination identified from current activities and the history of the Site and surrounding area are presented in Table
 5.1. Ground gas sources are addressed in the next section.

	Potential sources	Contaminants of concern			
	On-site				
	Cement works, including storage of materials, chemicals and fuels required for processes and storage of waste products and a number of substations	Inorganic compounds (including calcium oxide, calcium hydroxide, calcium carbonate and calcium chloride and gypsum), blast furnace slag, pulverised fuel ash (PFA), sulphonated hydrocarbons, plasticisers, cement dust, flue gas dust, PCBs near substations (PCBs understood to have been removed, but historical contamination could be present)			
	Made ground (i.e. fill material) across the Site, including in areas of railway embankments and where water features have been constructed	Unknown fill material but potentially including colliery spoil, brick, ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos			
	Agricultural land	Herbicides, pesticides, fuels, chemicals			

Table 5.1 Potential sources of soil and groundwater contamination



Potential sources	Contaminants of concern	
Landfill sites and infilled land	Industrial waste and inert waste	
Historical colliery (including spoil heaps and shafts)	Potentially including brick, ash and clinker and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos	
Railway lines within the Site in the centre, along southern and eastern Site boundary and in the south eastern corner	Made ground (as above, hydrocarbons, PAHs, heavy metals)	
ff-site		
Railway, along eastern and southern Site boundary	Petroleum hydrocarbons, toxic and phytotoxic metals, inorganics, PAHs, asbestos, herbicides, made ground in embankments	
Agricultural land	Herbicides, pesticides, fuels, chemicals	

Sensitive receptors and linking exposure/migration pathways

- 5.2.2 Sensitive receptors identified at or in the vicinity of the Site that could be affected by the potential sources are listed below. Potential migration pathways are given for each receptor:
 - Site users industrial workers, with migration pathways potentially including oral, dermal and inhalation exposure with impacted soil, soil vapour and dust/fibres and inhalation of vapours from groundwater;
 - Adjacent site users, with migration pathways including dust/fibre deposition and vapour or groundwater migration combined with inhalation;
 - Buildings and services, with migration pathways potentially including direct contact with contaminated soils or groundwater and chemical attack;
 - Vegetation, with pathways including direct contact with contaminated soils or groundwater and root uptake leading to phytotoxicity;
 - Groundwater in secondary A aquifer within bedrock deposits, with pathways including leaching from soils, percolation to aquifer and lateral migration of dissolved phase contamination;
 - Groundwater in secondary undifferentiated aquifer in superficial deposits, with pathways including percolation through permeable strata to aquifer and lateral migration of dissolved phase contamination;
 - Surface water course passing through the Site and surface water features in the southern part of the Site, with pathways including lateral migration of dissolved phase contamination, site run-off and drainage; and



- Ecological receptors ancient woodland, with pathways including lateral migration of dissolved phase contamination, site run-off, drainage and dust deposition.
- 5.2.3 Please note that construction workers and maintenance workers have not been identified in the CSM as receptors because risks are considered to be managed through health and safety procedures required by the CDM Regulations.
- 5.2.4 Ecological receptors are only considered within the CSM in the context of statutory protected sites.

5.3 Potential ground gas linkages

Ground gas generation potential

5.3.1 Potential ground gas sources identified for the Site and surrounding are shown in **Table 5.2**.

Table 5.2 Potential ground gas sources

Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information		
On-site				
Natural soil strata with a low degradable organic content, e.g. peat	Very low	There is a small area of head deposits on-site which may incorporate some peat (along with gravel, sand, clay and silt). Unlikely to be of sufficient extent to cause a ground gas issue on the Site.		
Infilled quarries/pits less than 15.00m diameter, in-filled before 1930s to 1940s	Very low	Such features may be present on-site		
Made ground with low degradable organic content (e.g. up to 5% organic material and no easily degradable waste).	Very low	Potentially applies to made ground mounded around the Site to north of operational area		
Landfill in northern area of site	Low/ Moderate	Northern landfill site was reportedly filled from 1950		



Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information		
Mine workings more than 50 years since last worked	Moderate	All mine workings on-site have been redundant for over a century		
Landfill in southern area of the Site	Low/ Moderate	Waste placed in this area is cement kiln dust. Laboratory analysis and landfill management documents (including surrender report) have been provided		
Off-site				
None identified				

- 5.3.2 Given the anticipated ground conditions set out above, potential sources of ground gas generation have been identified associated with landfill sites within the Site boundary and the former historical mining uses of the Site.
- 5.3.3 No further consideration is given to the potential ground gases sources with an indicative ground gas generation potential of very low or low.

Preferential pathways for ground gas migration

- 5.3.4 Credible preferential pathways potentially connecting the source and receptor through vertical and lateral migration are:
 - Mine shafts;
 - Mine workings extending laterally;
 - Faults in the underlying geology;
 - Building foundations;
 - Construction joints and cracks within building structures; and
 - Utility routes and service penetrations into buildings.

Sensitive receptors and linking pathways

- 5.3.5 Sensitive receptors identified at or in the vicinity of the Site that could be affected by the potential ground gas sources identified above comprise:
 - Site users commercial/ industrial workers, with pathways including migration and ingress of ground gases into buildings, build-up in confined spaces and explosion/ asphyxiation; and



- Buildings and services, with pathways including migration and ingress of ground gases into buildings, build-up in confined spaces and explosion.
- 5.3.6 The assessment has identified receptors to include site users and buildings and infrastructure.
- 5.3.7 Construction workers have not been identified as receptors for the purposes of this assessment. Risks may still be present to construction workers especially where works include the entry into excavations within the ground. Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and the use of PPE. These requirements should be listed in the Outline CEMP.

5.4 Preliminary risk assessment

- 5.4.1 The preliminary risk assessment findings and potentially complete contaminant linkages are shown in **Table 5.3** overleaf. The risk classification based on the combination of hazard consequence and probability using a risk matrix from CIRIA C552 (Rudland et al., 2001), a summary of which is included in **Appendix I.** This relates to Tier 1 preliminary risk assessment in LCRM (Environment Agency, 2021).
- 5.4.2 The initial conceptual site model is shown schematically in Figure 2.



Table 5.3 Risk estimation for potentially complete contaminant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Contamination on- site from historical mining and railway lines Contamination on- site from current	Industrial workers on-site	istrial workers soil or soil vapour, ingestion of dust or fibres, Unlikely Medium Low unlike		Industrial workers are unlikely to come into direct contact with contamination		
site usage (chemicals, materials used in cement	Adjacent site users	Vapour or groundwater migration combined with inhalation	Unlikely	Medium	Low	Adjacent site users are very unlikely to come into direct contact with contamination
production, fuel, agricultural contamination) Contamination in made ground and infilled land on- site Contamination in landfill sites	Buildings and services	Direct contact with contaminated soils or groundwater and chemical attack	Unlikely	Mild	Very low	Direct effects are unlikely to negatively impact buildings and infrastructure
	Vegetation	Direct contact with contaminated soils or groundwater and root uptake leading to phytotoxicity	Unlikely	Mild	Very low	Impact is possible but will not be significant



Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
located within the Site boundary	Groundwater in secondary A aquifer within bedrock deposits	Leaching from soils, percolation to aquifer and lateral migration of dissolved phase contamination	Low likelihood	Medium	Moderate / low	Impact to groundwater is possible if contamination is present within shallow deposits
	Groundwater in secondary undifferentiated aquifer in superficial deposits	Percolation through permeable strata to aquifer and lateral migration of dissolved phase contamination	Low likelihood	Medium	Moderate / low	Impact to groundwater is possible if contamination is present within shallow deposits
	Surface watercourse passing through the Site and surface water features in the southern part of the Site	Lateral migration of dissolved phase contamination, site run-off and drainage	Low likelihood	Medium	Moderate / low	Impact to surface water is possible if contamination is present within shallow deposits
	Ecological receptors – ancient woodland	Lateral migration of dissolved phase contamination, site run-off, drainage and dust deposition	Unlikely	Medium	Low	Distance to off-site ancient woodland is sufficient to decrease any potential risk from on-site contamination



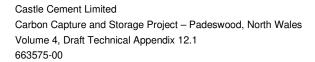
Potential source	otential source Potential Possible pathway receptor		Likelihood	Severity	Potential risk	Justification
	Industrial workers on-site	Oral, dermal and inhalation exposure with impacted soil or soil vapour, ingestion of dust or fibres, inhalation of vapours from groundwater	Unlikely	Medium	Low	Industrial workers are unlikely to come into direct contact with contamination from off- site sources
Off-site contamination from railway and	Buildings and services	Direct contact with contaminated soils or groundwater and chemical attack	Unlikely	Mild	Very low	Direct effects due to off-site sources are very unlikely to negatively impact buildings and infrastructure
from railway and agricultural land use	Groundwater in secondary A aquifer within bedrock deposits	Leaching from soils, percolation to aquifer and lateral migration of dissolved phase contamination	Unlikely	Medium	Low	Impact to groundwater beneath the Site is possible if contamination is present within shallow deposits
	Groundwater in secondary undifferentiated aquifer in superficial deposits		Unlikely	Medium	Low	Impact to groundwater beneath the Site is possible if contamination is present within shallow deposits



Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Potential risk	Justification
Ground gas from on-site landfills	Site workers	Geological faults, building foundations, construction joints and cracks within building structures and service penetrations into buildings	Unlikely	Severe	Low	Based on the closure report for the landfill, ground gas is not expected to be a risk
	Buildings and services	Geological faults, building foundations, construction joints and cracks within structures	Unlikely	Medium	Low	from this source.
Ground gas from on-site mine workings	Site workers	Mine shafts, mine workings extending laterally, geological faults, building foundations, construction joints and cracks within building structures and service penetrations into buildings	Low likelihood	Severe	Moderate	Ground gas from mine workings could have an impact on site workers if it accumulates in confined spaces/buildings
	Buildings and services	Mine shafts, lateral mine workings, geological faults, building foundations, construction joints and cracks within structures	Low likelihood	Medium	Moderate / low	Ground gas accumulation could result in damage to property



Low like		Consequences							
		Severe	Medium	Mild	Minor				
	Highly likely	Very high	High	Moderate	Moderate/low				
ility	Likely	High	Moderate	Moderate/low	Low				
Probab	Likely pap Low likelihood	Moderate	Moderate/low	Low	Very low				
	Unlikely	Moderate/low	Low	Very low	Very low				





- 5.4.3 Potentially complete contaminant linkages with a potential risk of moderate to low or higher identified in **Table 5.3** comprise:
 - Risks to groundwater in superficial and bedrock deposits from on-site contamination (historical and current sources), via leaching and migration (moderate to low risk);
 - Risks to surface waters on-site from on-site contamination (historical and current sources), via lateral migration, site run-off and drainage (moderate to low risk);
 - Risks to site workers due to accumulation of mine gases, potentially resulting in asphyxiation or explosion (moderate risk); and
 - Risk to buildings and infrastructure due to accumulation of mine gases, followed by explosion (moderate to low risk).
- 5.4.4 These potentially complete contaminant linkages need to be assessed further through appropriate site investigation to target the identified sources of potential contamination and assess the feasibility of identified pathways.

5.5 Data gaps and uncertainties

- 5.5.1 Key data gaps and uncertainties identified in the CSM at desk study stage include:
 - There are gaps between available historical OS maps, but given the other available information about the Site, there are not expected to have been any significant site uses that have not been identified;
 - The walkover did not reach all parts of the Site. Specifically the residential properties in the north east corner of the Site, and the biodiversity area in the south west of the Site were not visited;
 - Information relating to one of the landfill sites within the Site boundary is limited;
 - Previous investigation information suggests there may be some impact from contamination within operational areas, but there is not a full set of intrusive information for all areas of the Site that will be occupied by the Proposed Development (although there is contamination data for the south-western corner);
 - Some site-specific data on groundwater depth is available, but not for all areas of the site. Groundwater flow direction is not known; and
 - Current status of coal mining legacy structures and workings, and associated physical and contaminative risks.



6 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

6.1 Geo-environmental assessment

- 6.1.1 Based on the results of the desk-based Preliminary Risk Assessment the contaminant linkages that have been identified to be potentially complete and to require further action are listed below:
 - Risks to groundwater in superficial and bedrock deposits from on-site contamination (historical and current sources), via leaching and migration (moderate to low risk);
 - Risks to surface waters on-site from on-site contamination (historical and current sources), via lateral migration, site run-off and drainage (moderate to low risk);
 - Risks to site workers due to accumulation of ground gases or mine gases, potentially resulting in asphyxiation or explosion (moderate risk); and
 - Risk to buildings and infrastructure due to accumulation of ground gases or mine gases, followed by explosion (moderate to low risk).
- 6.1.2 It should be noted that the information provided in this report covers the full Padeswood Cement Works site, and the Proposed Development works will be limited to set locations within the main site.
- 6.1.3 On the basis that a site investigation has been completed by EEG for the southwestern area of the site, the following comments are made regarding the risks identified above in terms of whether sufficient data has been provided to determine whether these risks remain viable within that part of the site.
 - Risks to groundwater or surface water from on-site contamination (historical and current sources), via leaching and migration (moderate to low risk). In the south-west area of the Site it is concluded that this risk has been assessed, and that there is not a complete linkage relating to controlled waters;
 - Risks to site workers or buildings and infrastructure due to accumulation of ground gases or mine gases, potentially resulting in asphyxiation or explosion (moderate or low risk). In the south-west area of the Site there is not considered to be a risk from ground gases from the nearby landfill site (for which a closure report has been submitted and approved by NRW); and coal mining infrastructure has not been identified within this area, so mine gases are unlikely to cause a risk.



- 6.1.4 Data gaps and uncertainties have been considered and further assessment is considered to be required, as detailed in the recommendations section below.
- 6.1.5 Should unforeseen contamination be encountered during redevelopment then specialist advice should be sought to determine the appropriate course of action.

6.2 Geotechnical assessment

6.2.1 Geotechnical issues likely to require further assessment have been identified relating to the coal mining history of the Site, which are further assessed in the Coal Mining Risk Assessment (as provided in **Volume 4**, **Technical Appendix 12.2**). There are potentially some areas of made ground and steep slopes in the northern section of the Site along the route of the watercourse crossing the Site.

6.3 **Recommendations**

- 6.3.1 The following recommendations are made for further assessment of the Site to investigate the risks and data gaps identified above:
 - Use information from this desk-based assessment, the CSM, earlier site investigations and the EEG site investigation to design a second phase of intrusive site investigation for the Proposed Development to assess contamination issues;
 - If possible, concentrate recommendations for further works in the Proposed Development areas and refine the recommendations and actions based on the specific areas of the Site that are to be developed; and
 - Ensure that potential geotechnical issues are considered more fully in later stages of project development.



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FIGURES



FIGURE 1 SITE LAYOUT PLAN

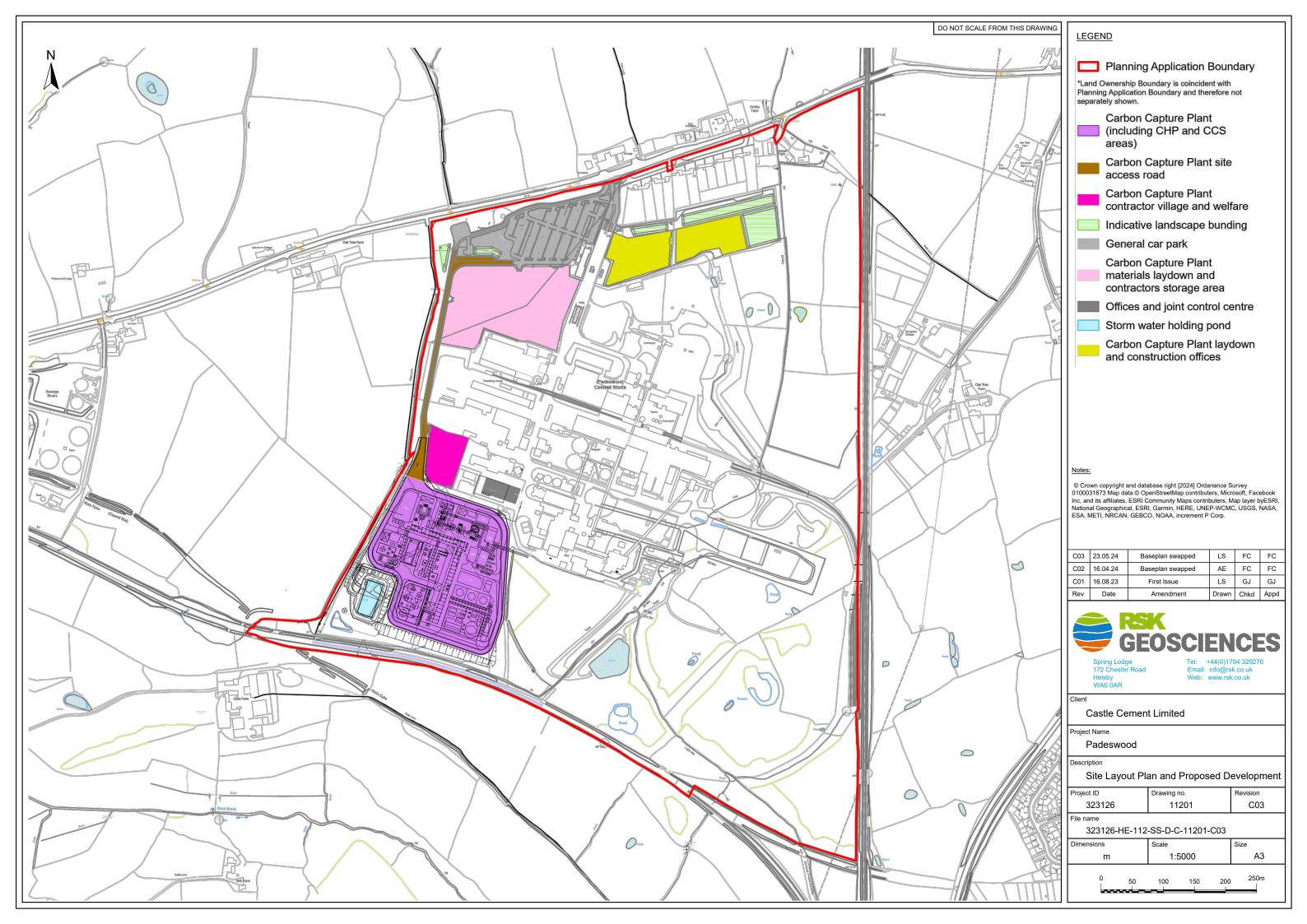
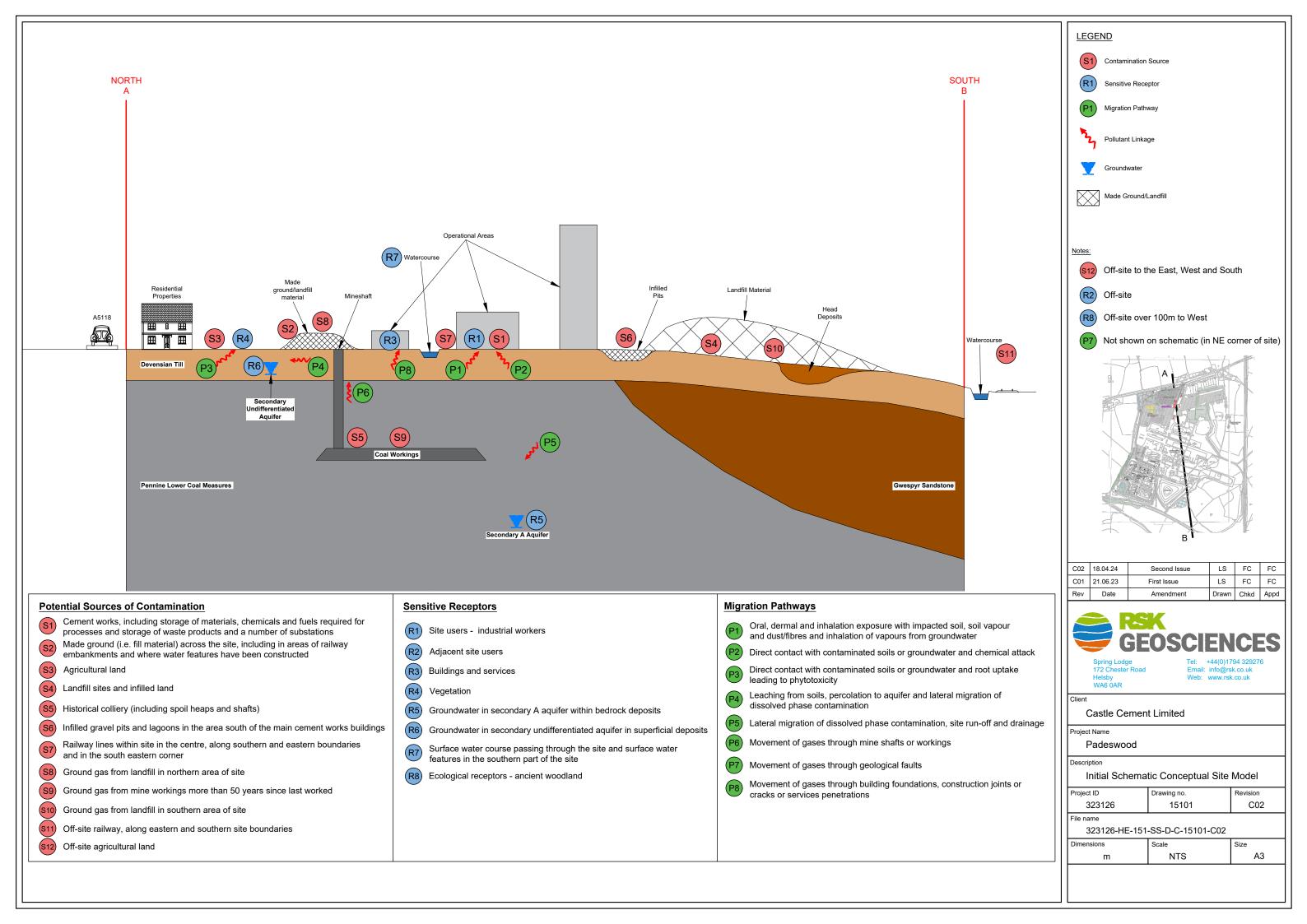




FIGURE 2 INITIAL SCHEMATIC CONCEPTUAL SITE MODEL



APPENDICES

APPENDIX A SERVICE CONSTRAINTS

- 1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Castle Cement Limited (the "Client") in accordance with the terms of a contract between RSK and the Client. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by an environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.
- 2. Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
- 3. Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.
- 4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
- 5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the Client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
- 6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, persistent, bioaccumulative or toxic chemicals (including PFAS/ PFOS) or other radioactive or hazardous materials, unless specifically identified in the Services.

- 7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services or accreditation system (such as UKAS ISO 17020:2012 clause 7.1.6):
 - a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.
 - b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.
 - c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the Client and RSK.

- 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 client 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.
- 9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.
- 10. The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.
- 11. Asbestos is often observed to be present in soils in discrete areas. Whilst asbestoscontaining materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that

asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works.

12. Unless stated otherwise, only preliminary geotechnical recommendations are presented in this report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed.

APPENDIX B SUMMARY OF LEGISLATION AND POLICY RELATING TO LAND CONTAMINATION

Part IIA of the Environmental Protection Act 1990

Part IIA of the Environmental Protection Act 1990 (Part IIA) and its associated Contaminated Land Regulations 2000 (SI 2000/227), which came into force in England on 1 April 2000, formed the basis for the current regulatory framework and the statutory regime for the identification and remediation of contaminated land. Part IIA of the EPA 1990 defines contaminated land as '*any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused'. Controlled waters are considered to include all groundwater, inland waters and estuaries.*

The intention of Part IIA is to deal with contaminated land issues that are considered to cause significant harm on land that is not undergoing development (see Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, April 2012). This document replaces Annex III of Defra Circular 01/2006, published in September 2006 (the remainder of this document is now obsolete).

Planning Policy

Contaminated land is often dealt with through planning because of land redevelopment. In Wales, the overarching documents applicable to this are The Planning Series, specifically issue 1 – National Planning Policy (December 2021). This indicates that the law applying to planning in Wales is set out in the following:

- Town and Country Planning Act, 1990
- Planning and Compulsory Purchase Act, 2004
- Planning Act, 2008 and
- Planning (Wales) Act, 2015.

'Future Wales – The National Plan 2040' should also be referred to.

Water Resources Act (WRA)

The Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009 updated the Water Resources Act 1991, which introduced the offence of causing or knowingly permitting pollution of controlled waters. The Act provides the Environment Agency with powers to implement remediation necessary to protect controlled waters and recover all reasonable costs of doing so.

Water Framework Directive (WFD)

The Water Framework Directive 2000/60/EC is designed to:

- Enhance the status and prevent further deterioration of aquatic ecosystems and associated wetlands that depend on the aquatic ecosystems;
- Promote the sustainable use of water;
- Reduce pollution of water, especially by 'priority' and 'priority hazardous' substances; and
- Ensure progressive reduction of groundwater pollution.

The WFD requires a management plan for each river basin be developed every six years.

Groundwater Directive (GWD)

The 1980 Groundwater Directive 80/68/EEC and the 2006 Groundwater Daughter Directive 2006/118/EC of the WFD are the main European legislation in place to protect groundwater. The 1980 Directive is due to be repealed in December 2013. The European legislation has been transposed into national legislation by regulations and directions to the Environment Agency.

In Wales, the Groundwater (Water Framework Directive) (Wales) Direction 2014 should also be referred to.

Priority Substances Directive (PSD)

The Priority Substances Directive 2008/105/EC (PSD) is a 'Daughter' Directive of the WFD, which sets out a priority list of substances posing a threat to or via the aquatic environment. The PSD establishes environmental quality standards for priority substances, which have been set at concentrations that are safe for the aquatic environment and for human health. In addition, there is a further aim of reducing (or eliminating) pollution of surface water (rivers, lakes, estuaries and coastal waters) by pollutants on the list. The WFD requires that countries establish a list of dangerous substances that are being discharged and EQS for them. In England and Wales, this list is provided in the River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010. In order to achieve the objectives of the WFD, classification schemes are used to describe where the water environment is of good quality and where it may require improvement.

Environmental Permitting Regulations (EPR)

The Environmental Permitting (England and Wales) Regulations 2016 (as amended) provide a single regulatory framework that streamlines and integrates waste management licensing, pollution prevention and control, water discharge consenting, groundwater authorisations, and radioactive substances regulation. Schedule 22, paragraph 6 of EPR 2016 states: 'the regulator must, in exercising its relevant functions, take all necessary measures - (a) to prevent the input of any hazardous substance to groundwater; and (b) to limit the input of nonhazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.' Notes:

1. The above information is provided for background but does not constitute site-specific advice.



APPENDIX C ENVIRONMENTAL DATABASE REPORT

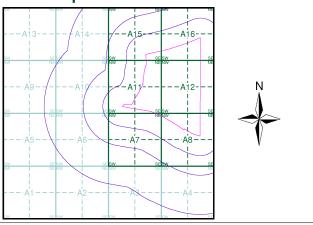
Historical Mapping Legends

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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



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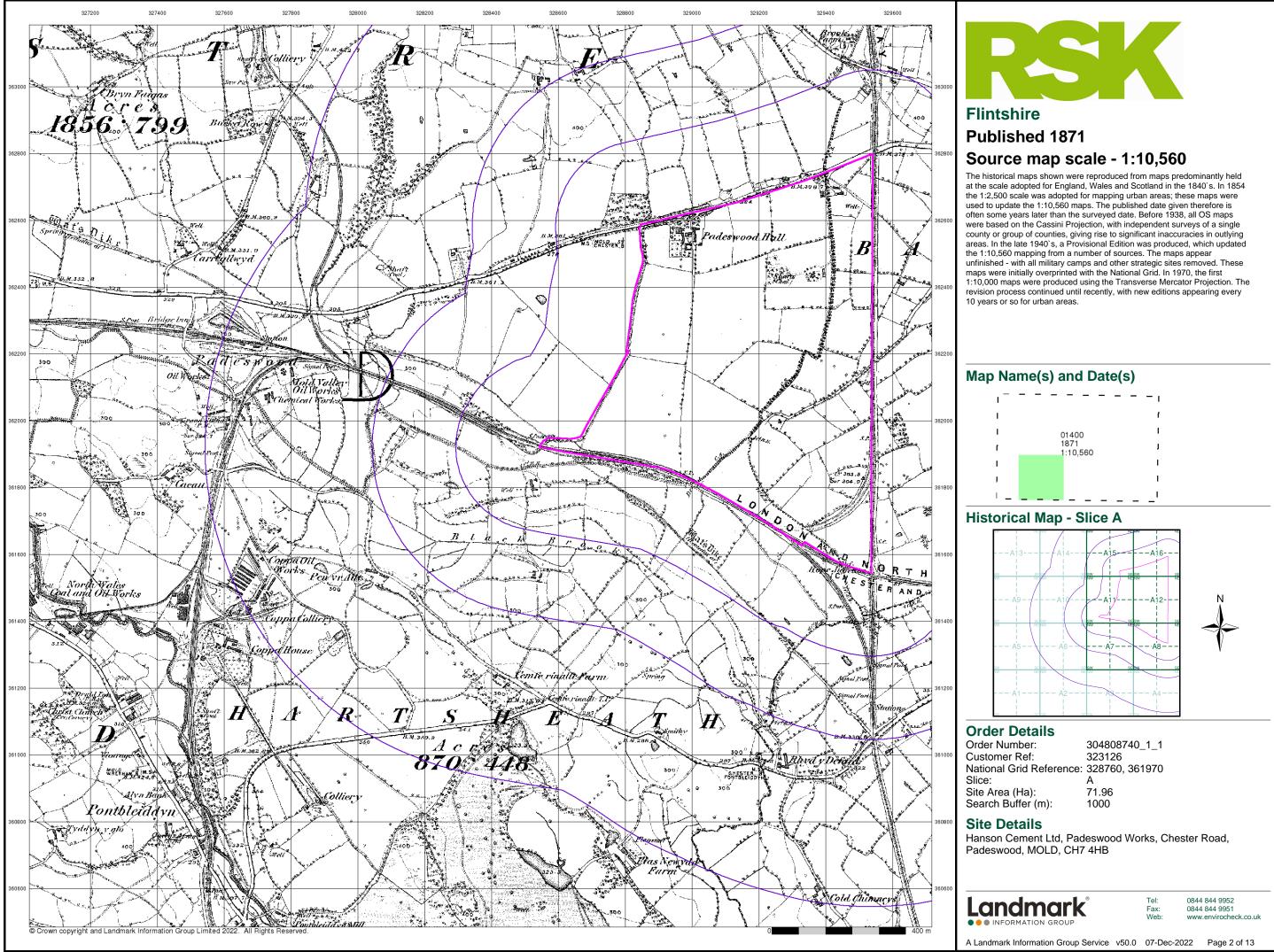
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Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

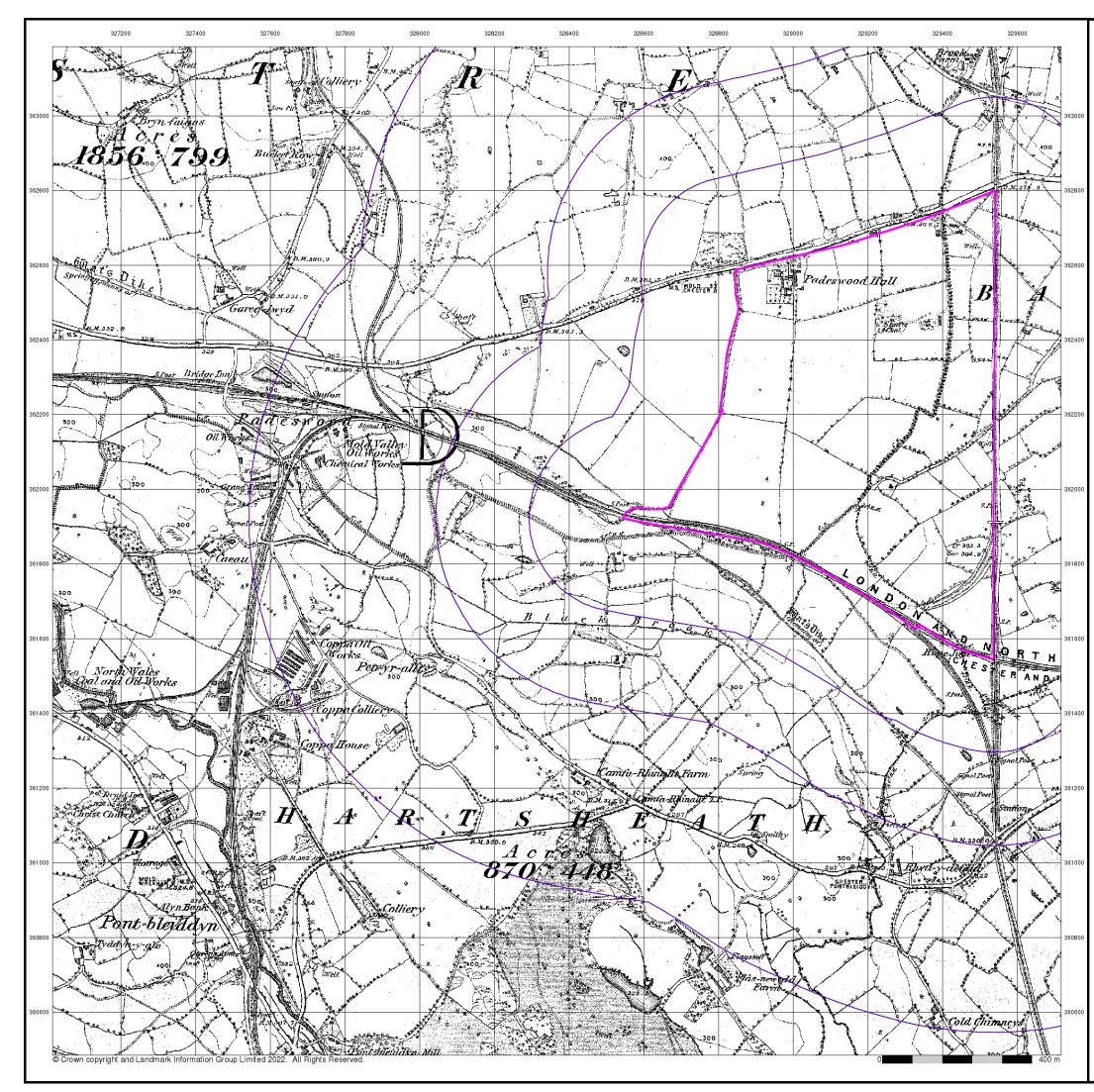


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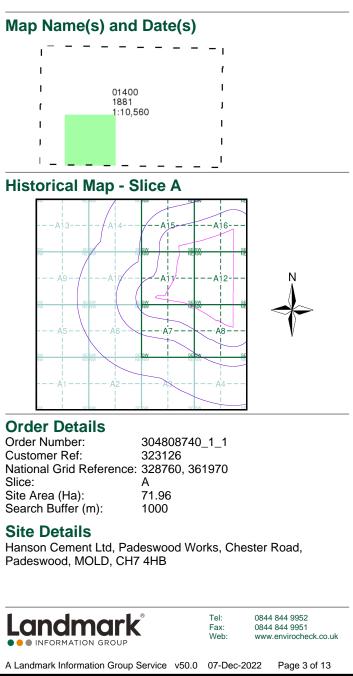


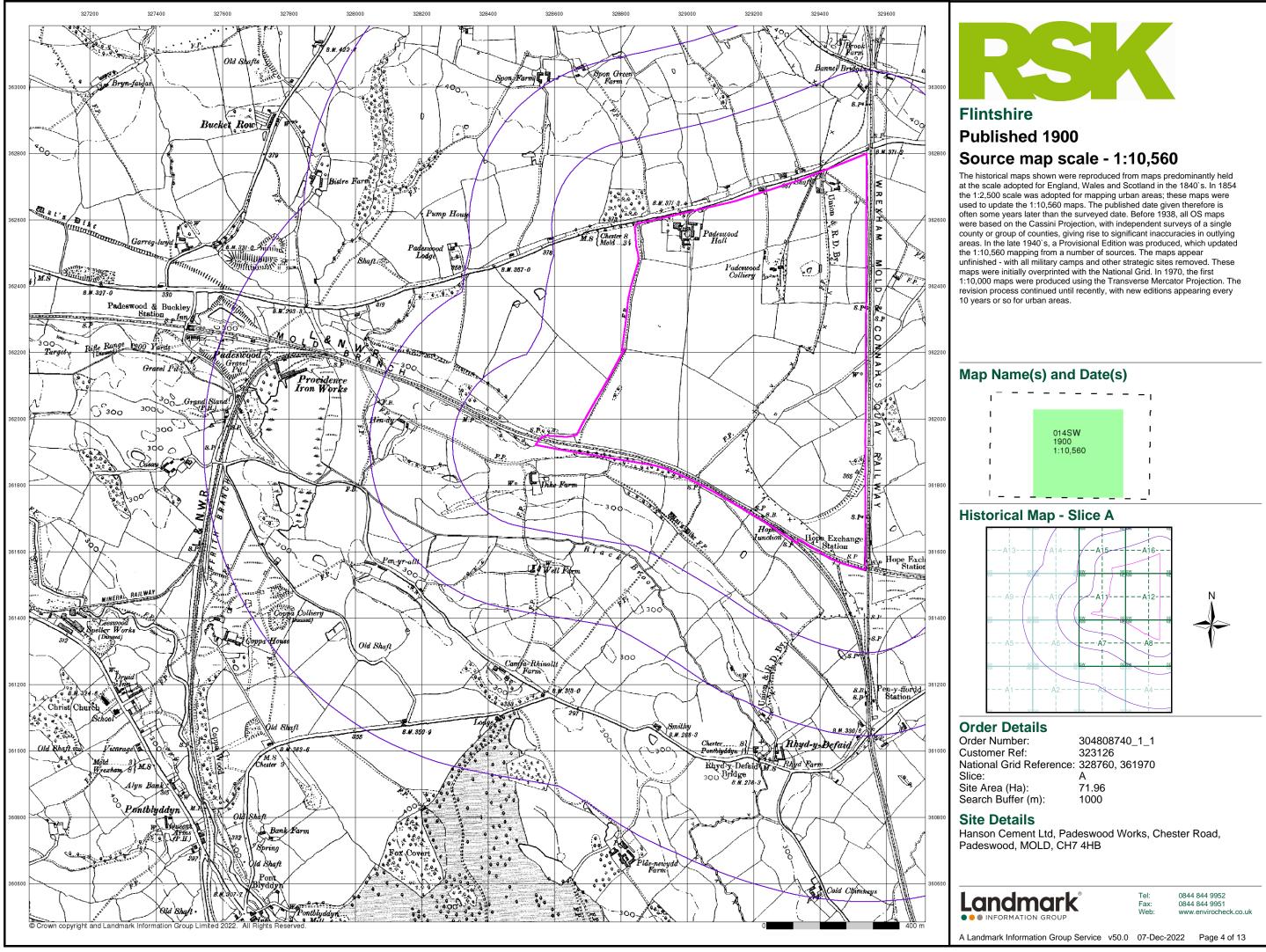




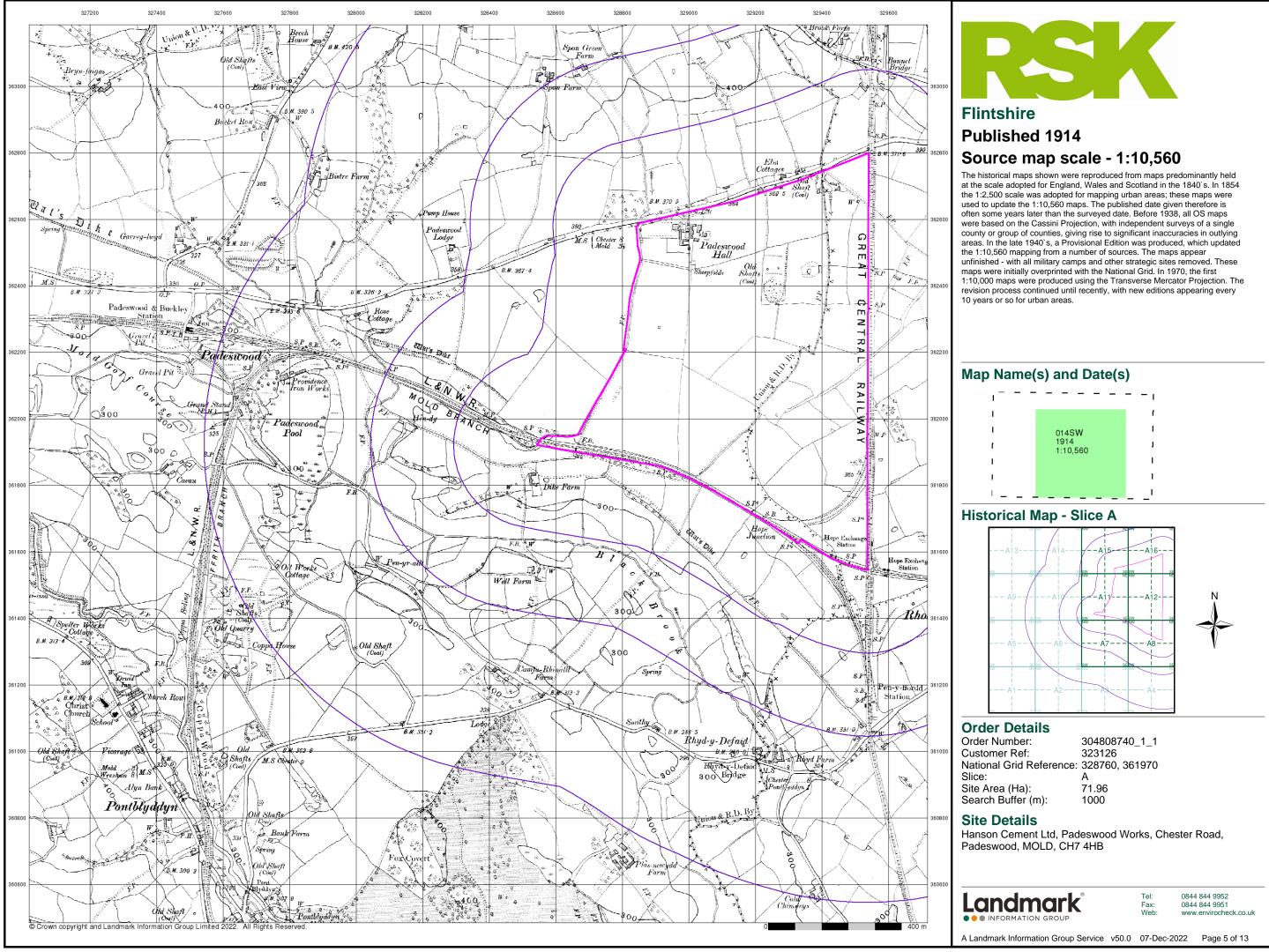
Published 1881 Source map scale - 1:10,560

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.

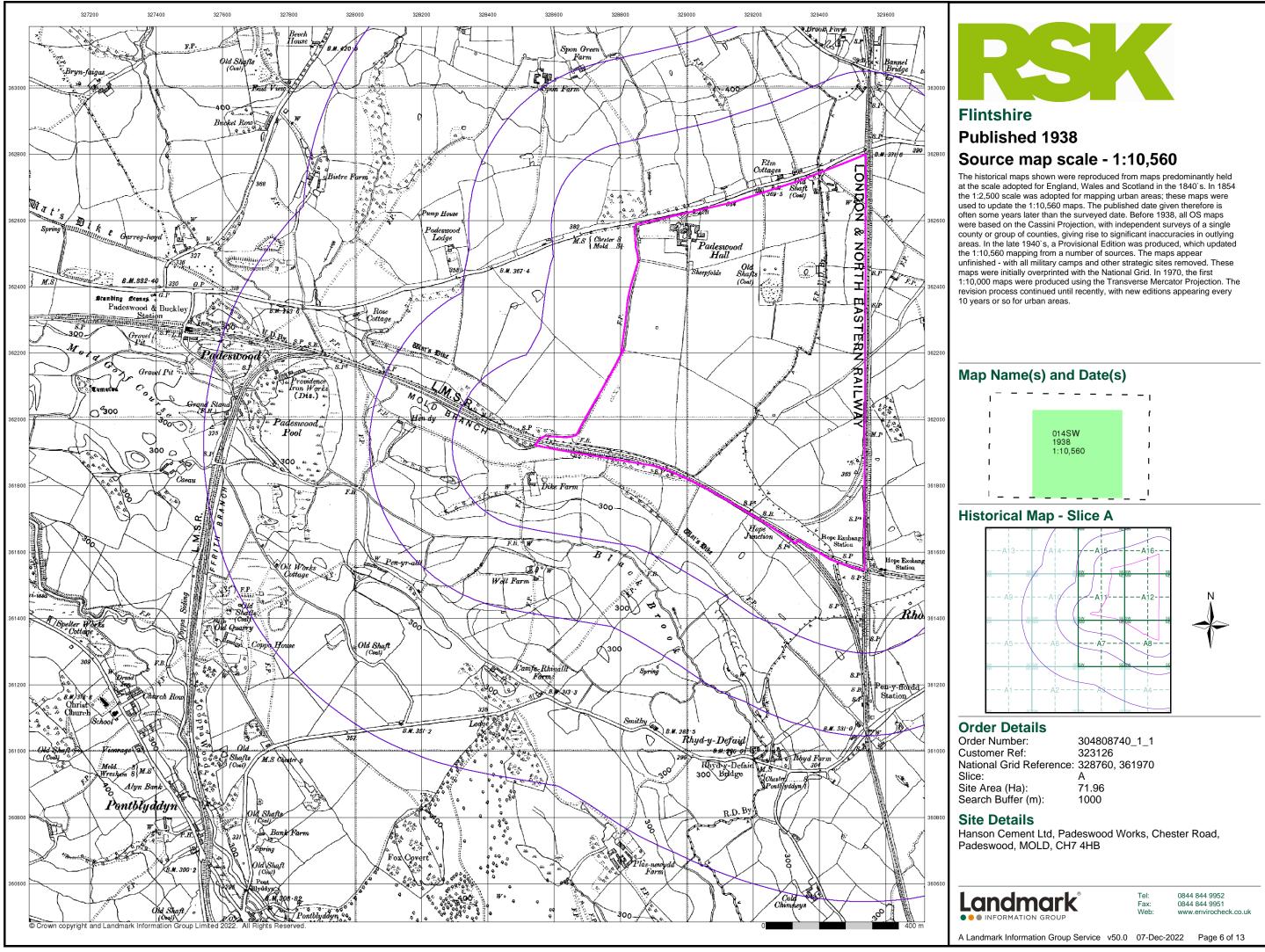




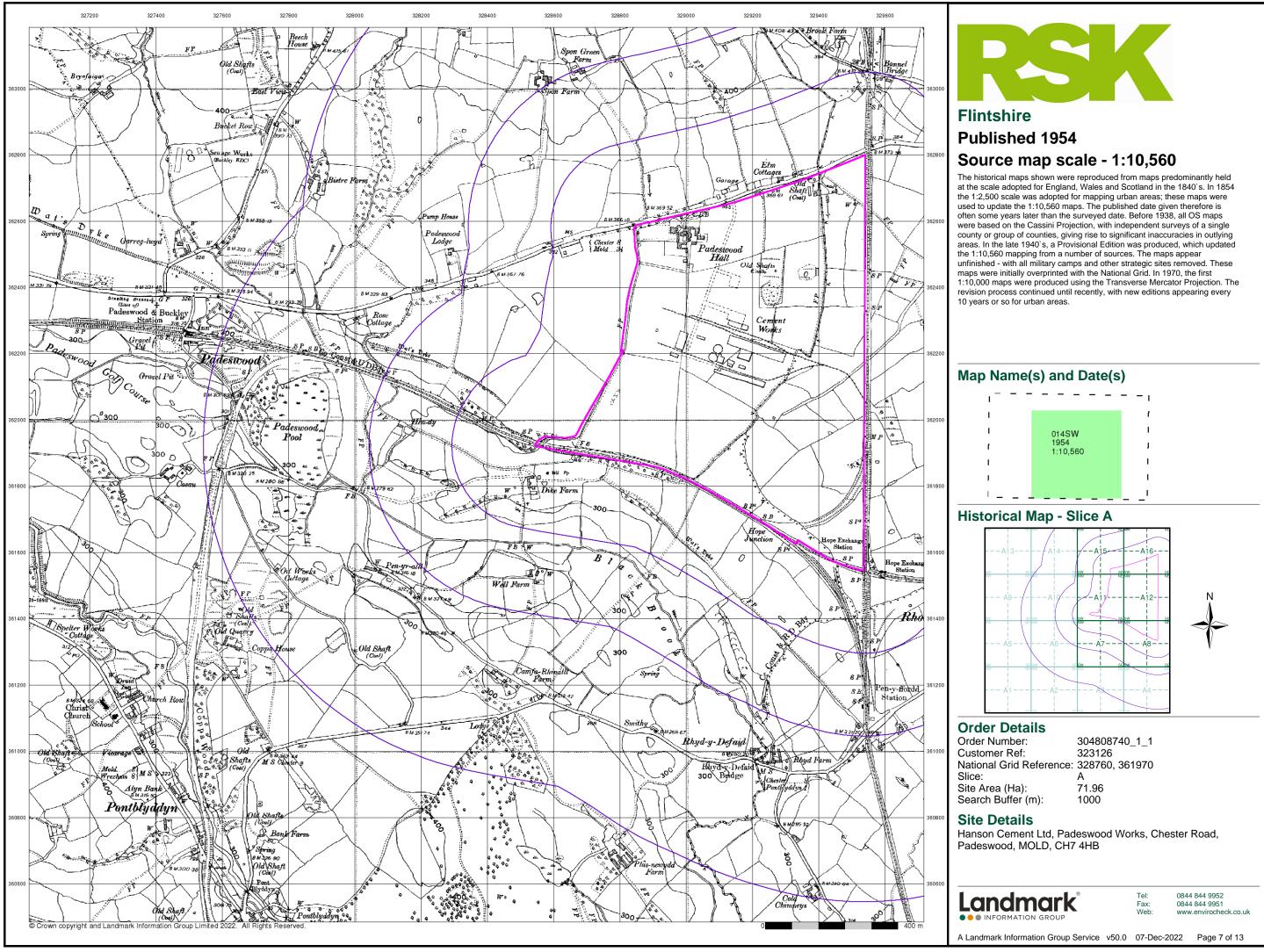




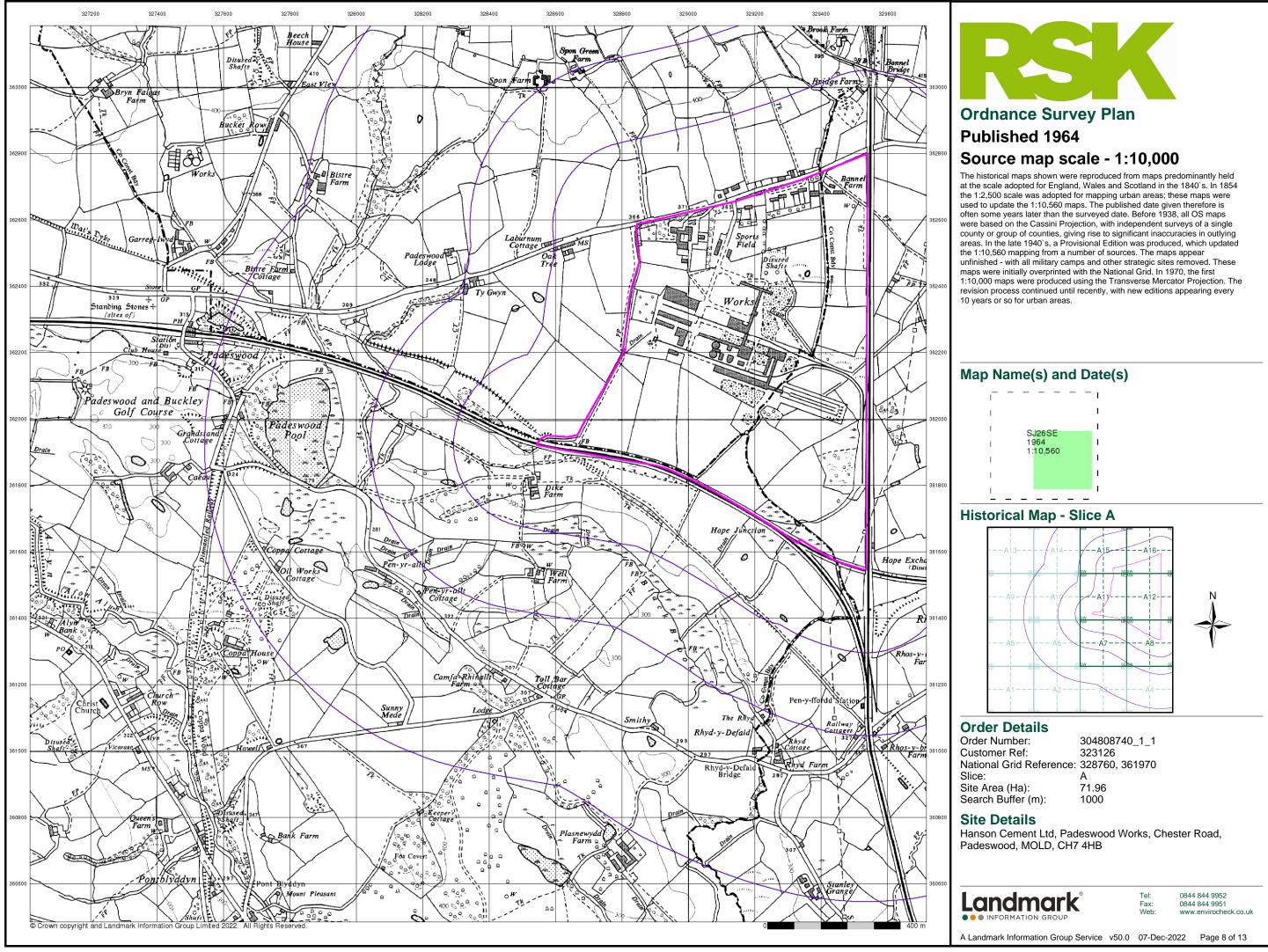




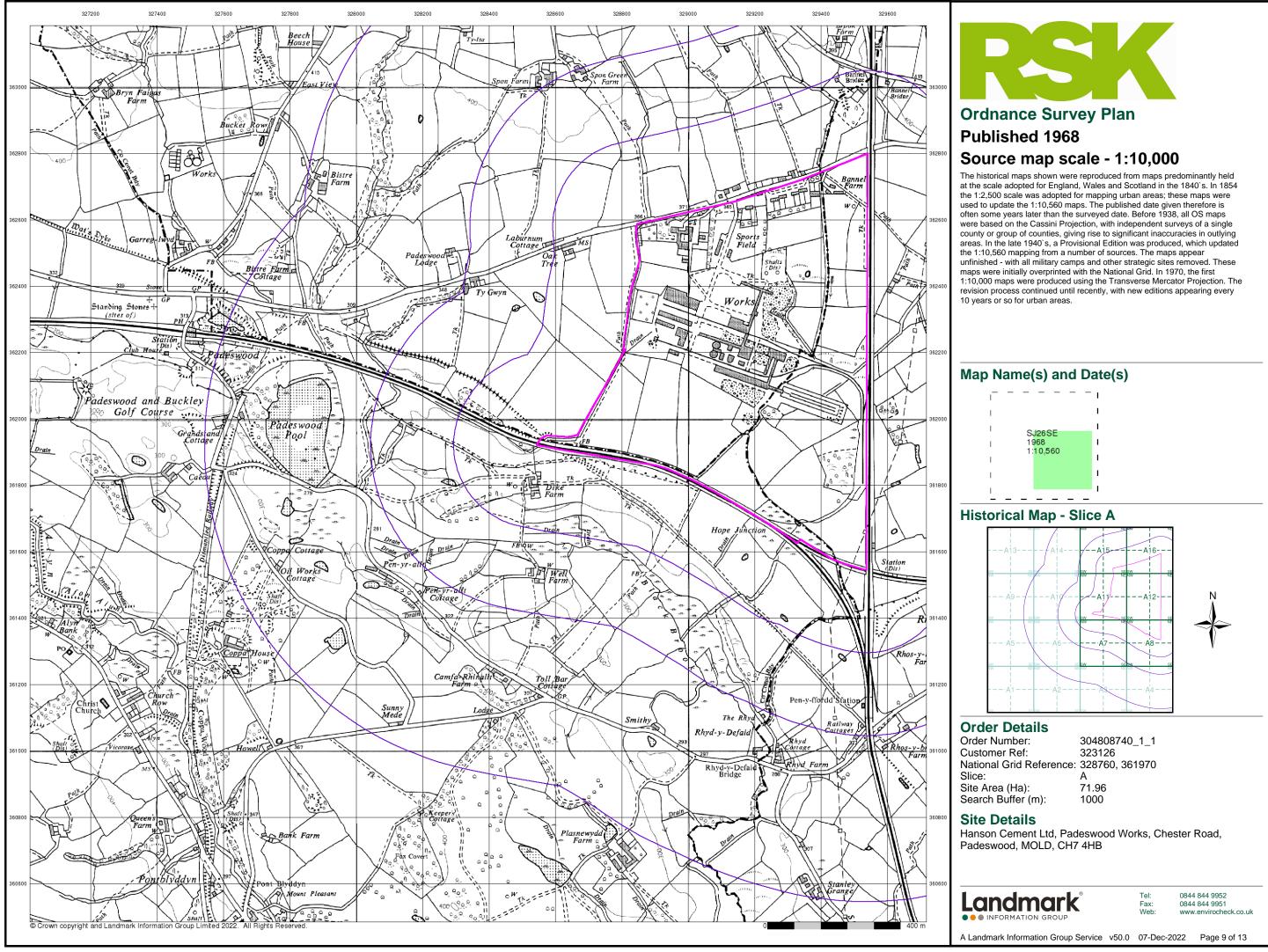




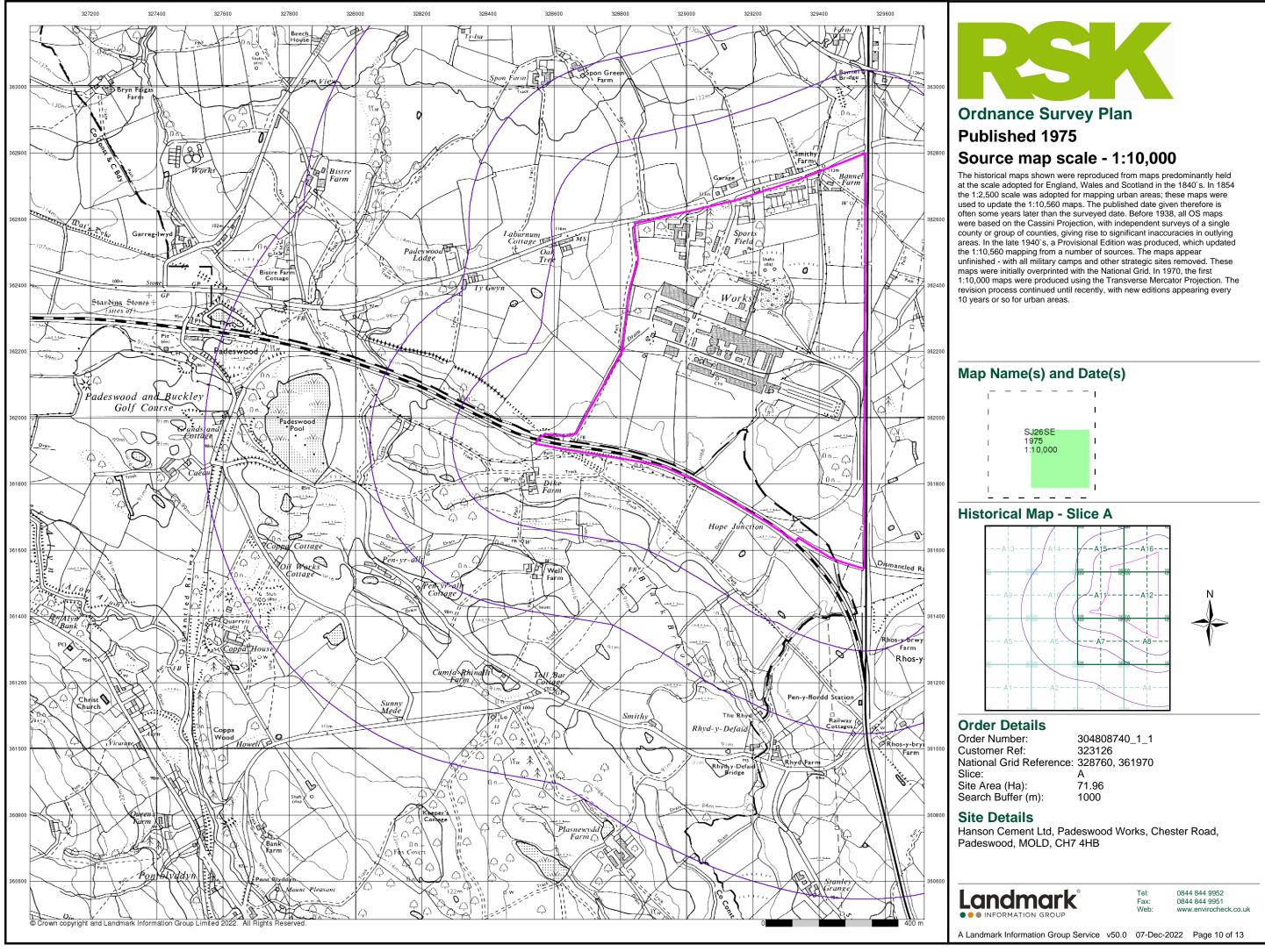




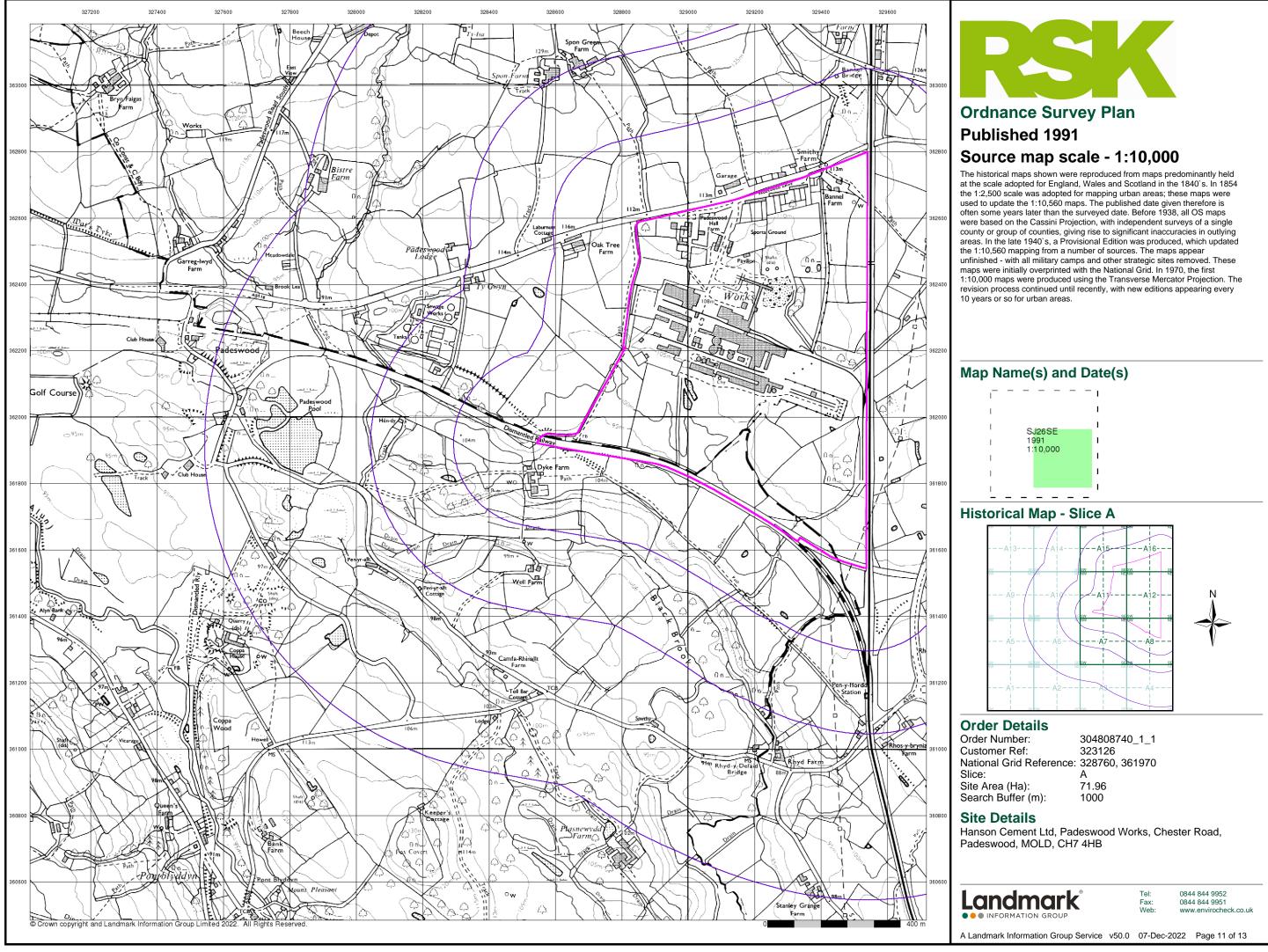




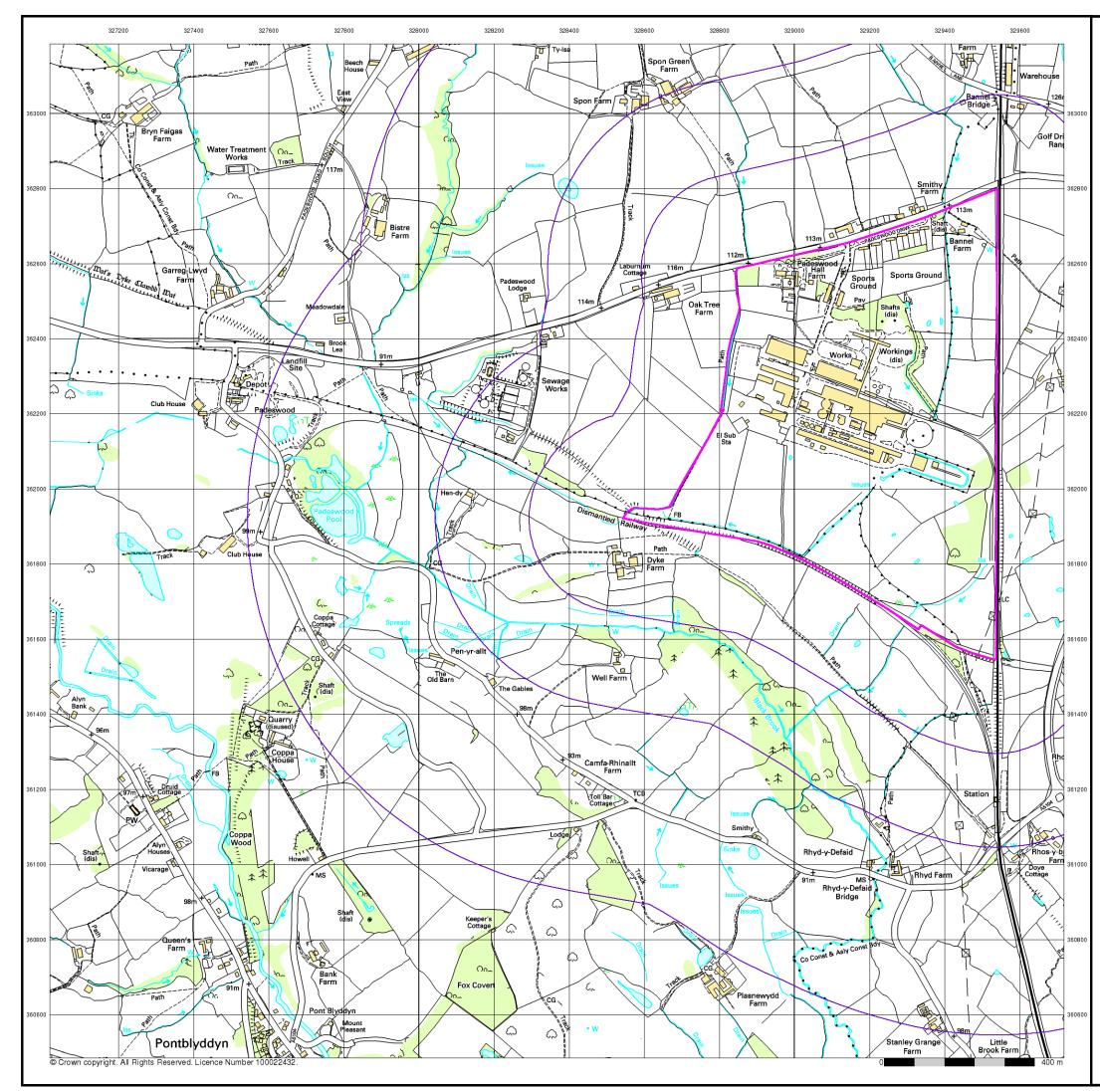












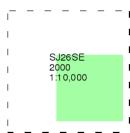


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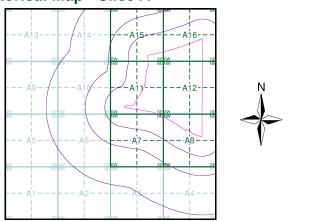
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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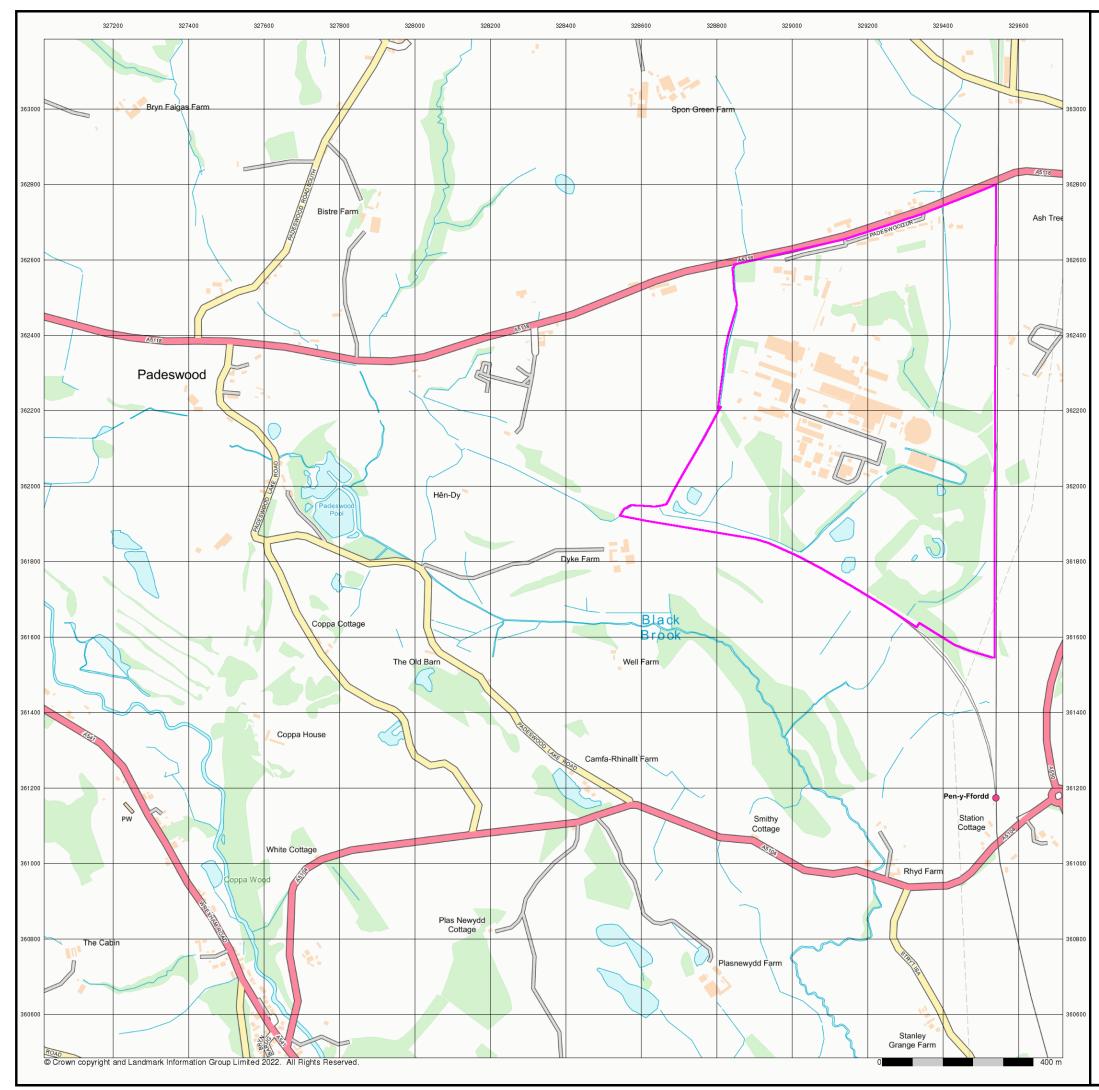
Site Details

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



Tel: Fax: Web:

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





Street View

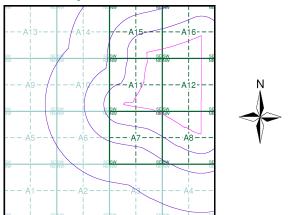
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 1000

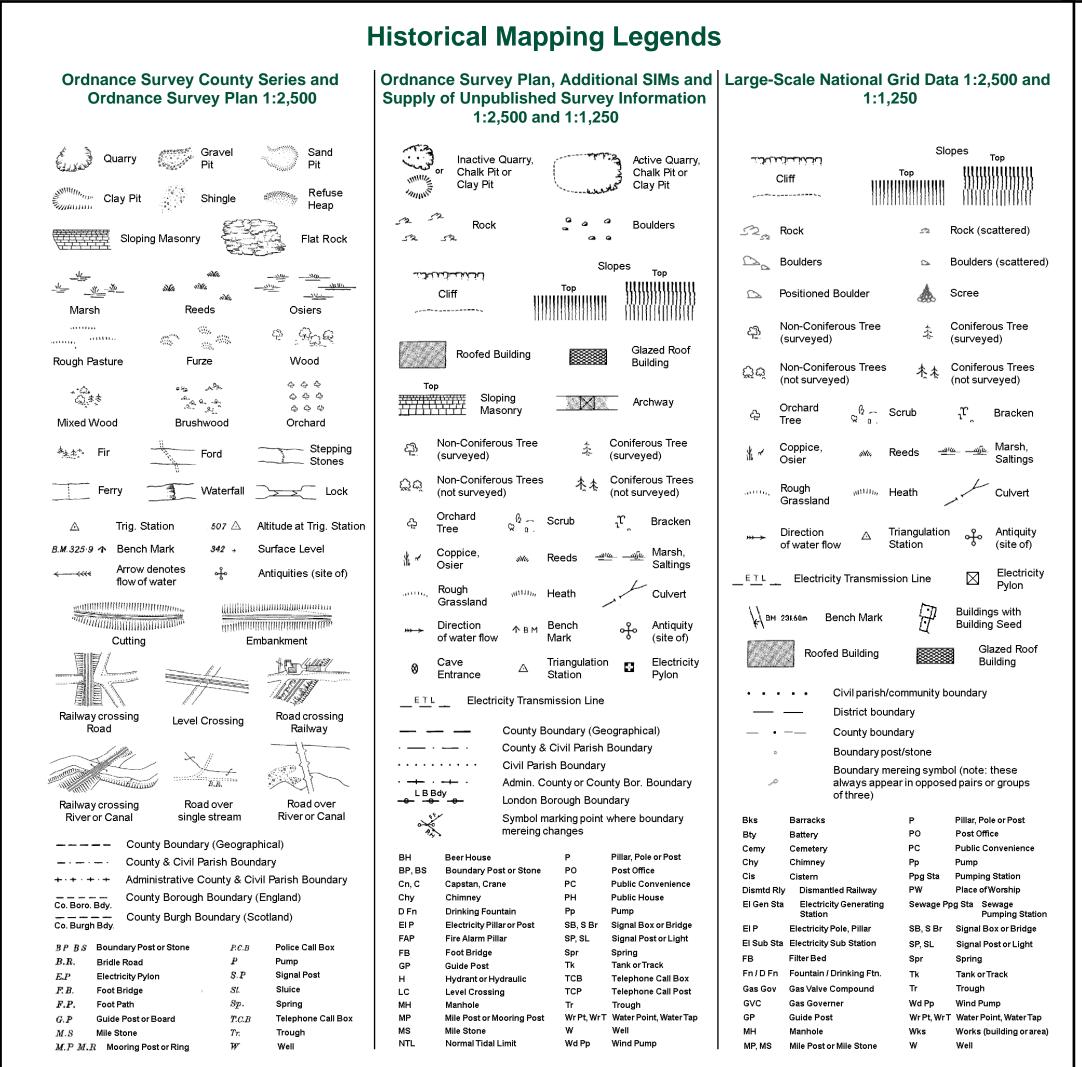
Site Details

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



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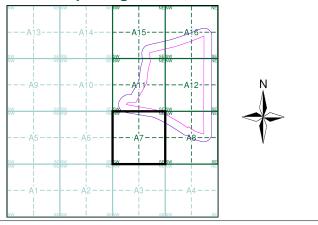
0844 844 9952 0844 844 9951 www.envirocheck.co.uk



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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

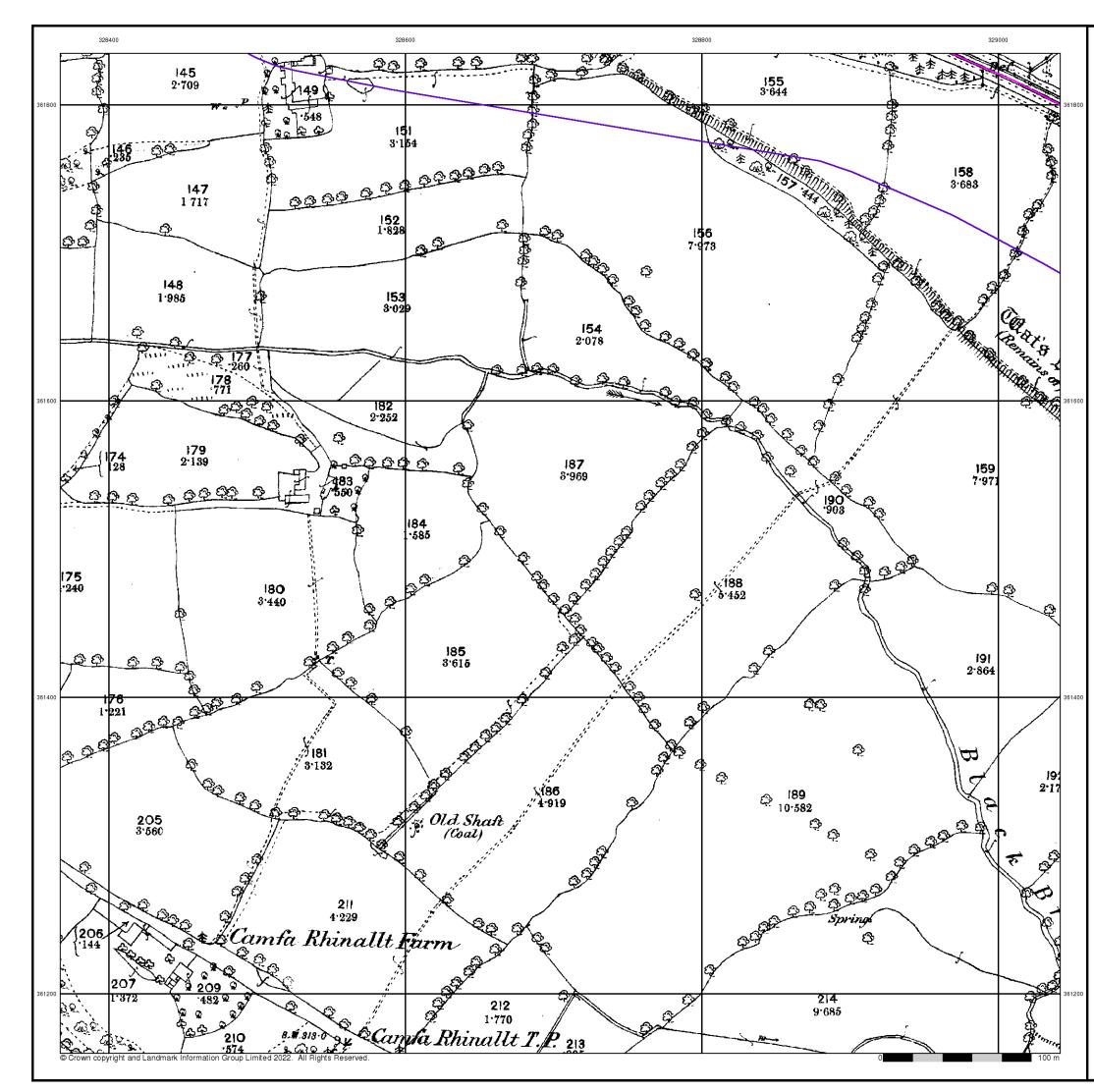
304808740_1_1 323126 Α 71.96 100

Site Details

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



Tel Fax: Web:

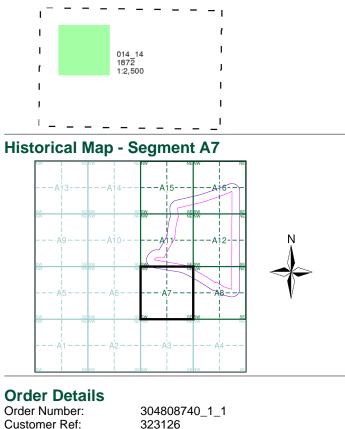




Published 1872 Source map scale - 1:2,500

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)



National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

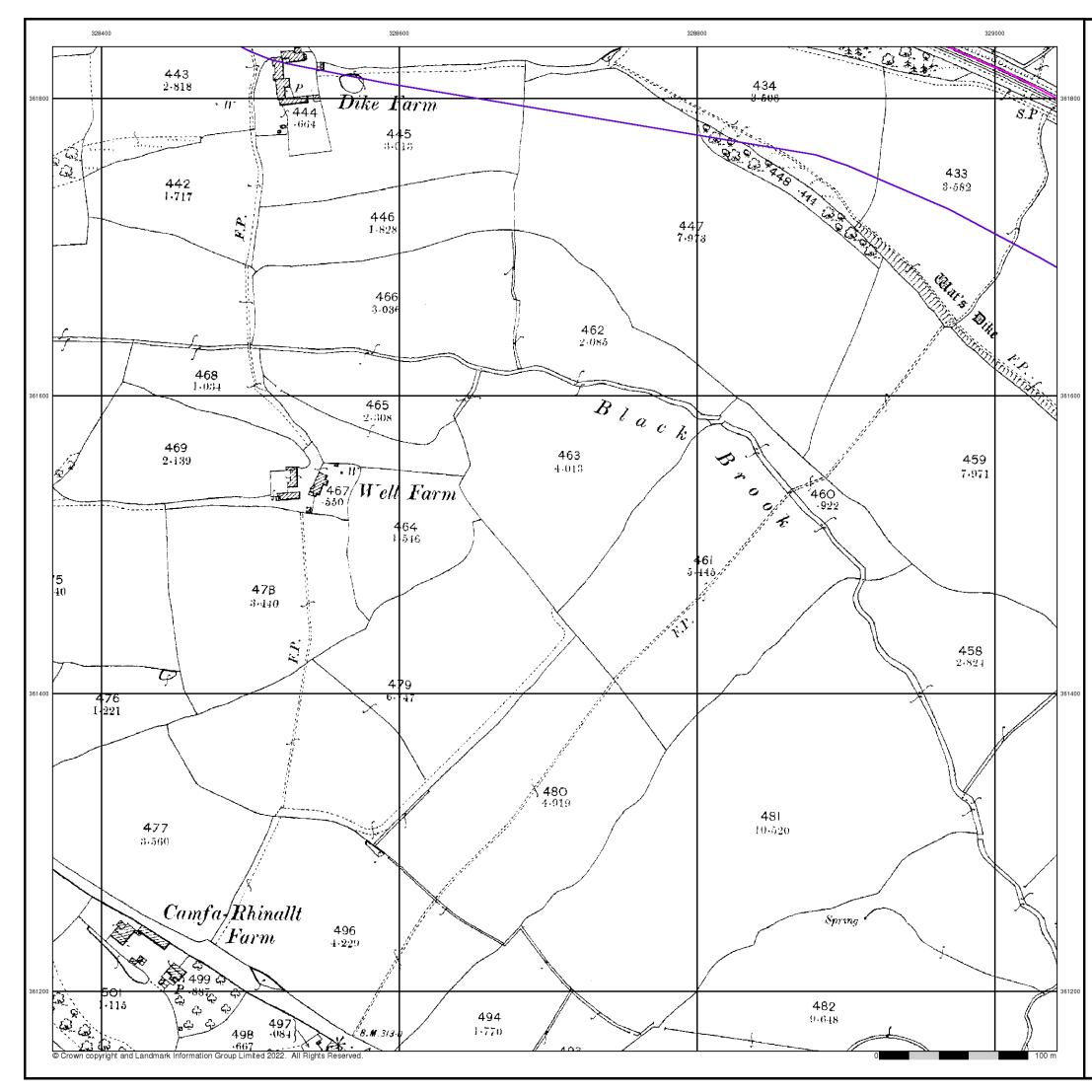
А 71.96 100

Site Details

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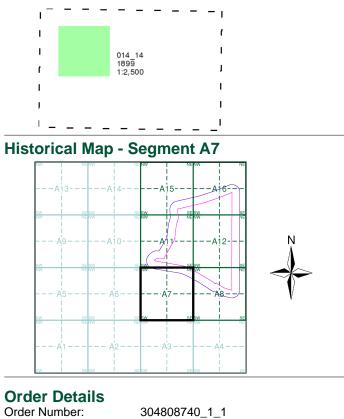




Published 1899 Source map scale - 1:2,500

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)



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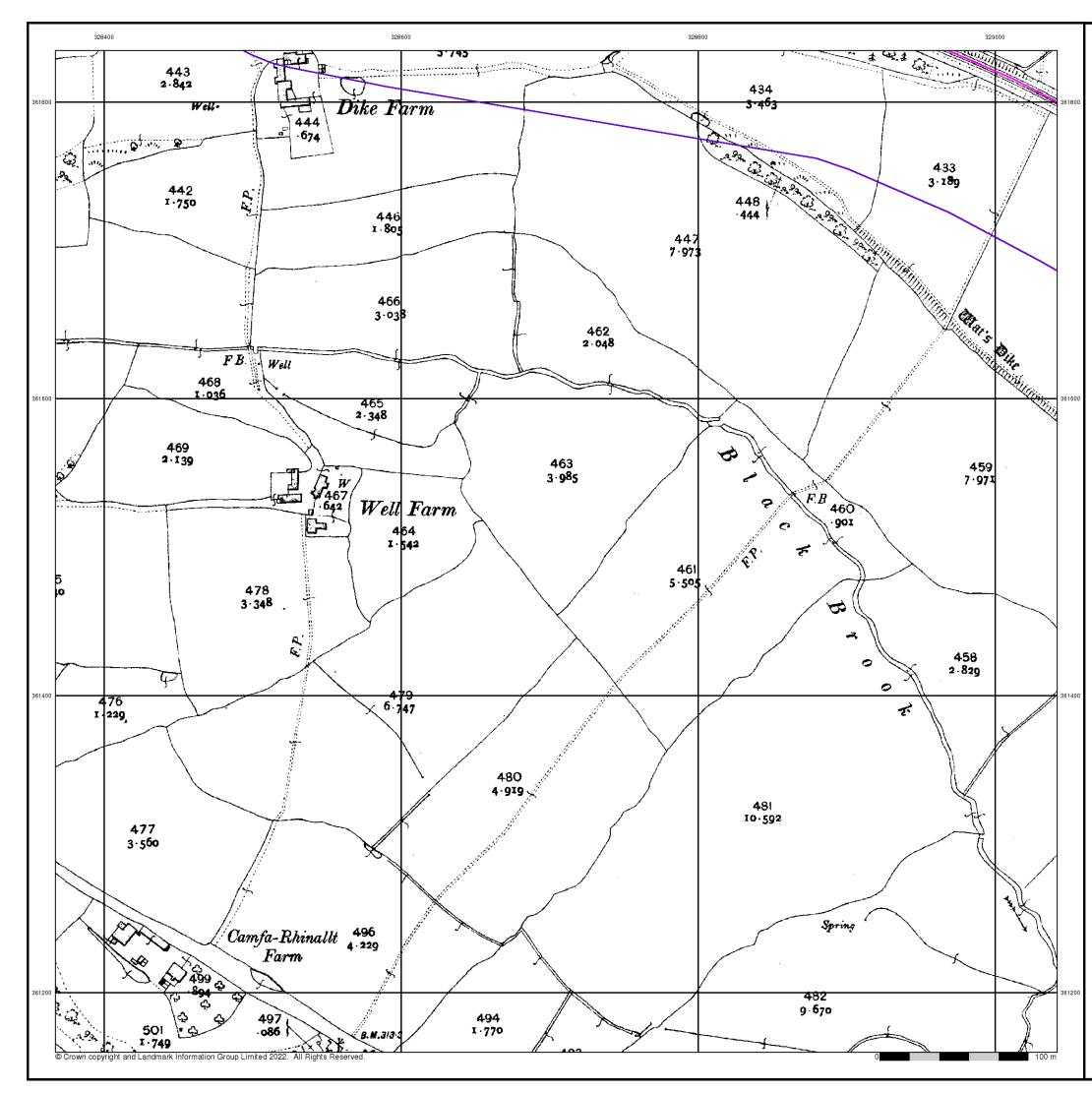
323126 А 71.96 100

Site Details

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



Tel: Fax: Web:

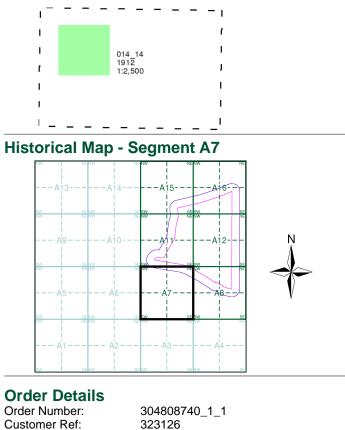




Published 1912 Source map scale - 1:2,500

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)



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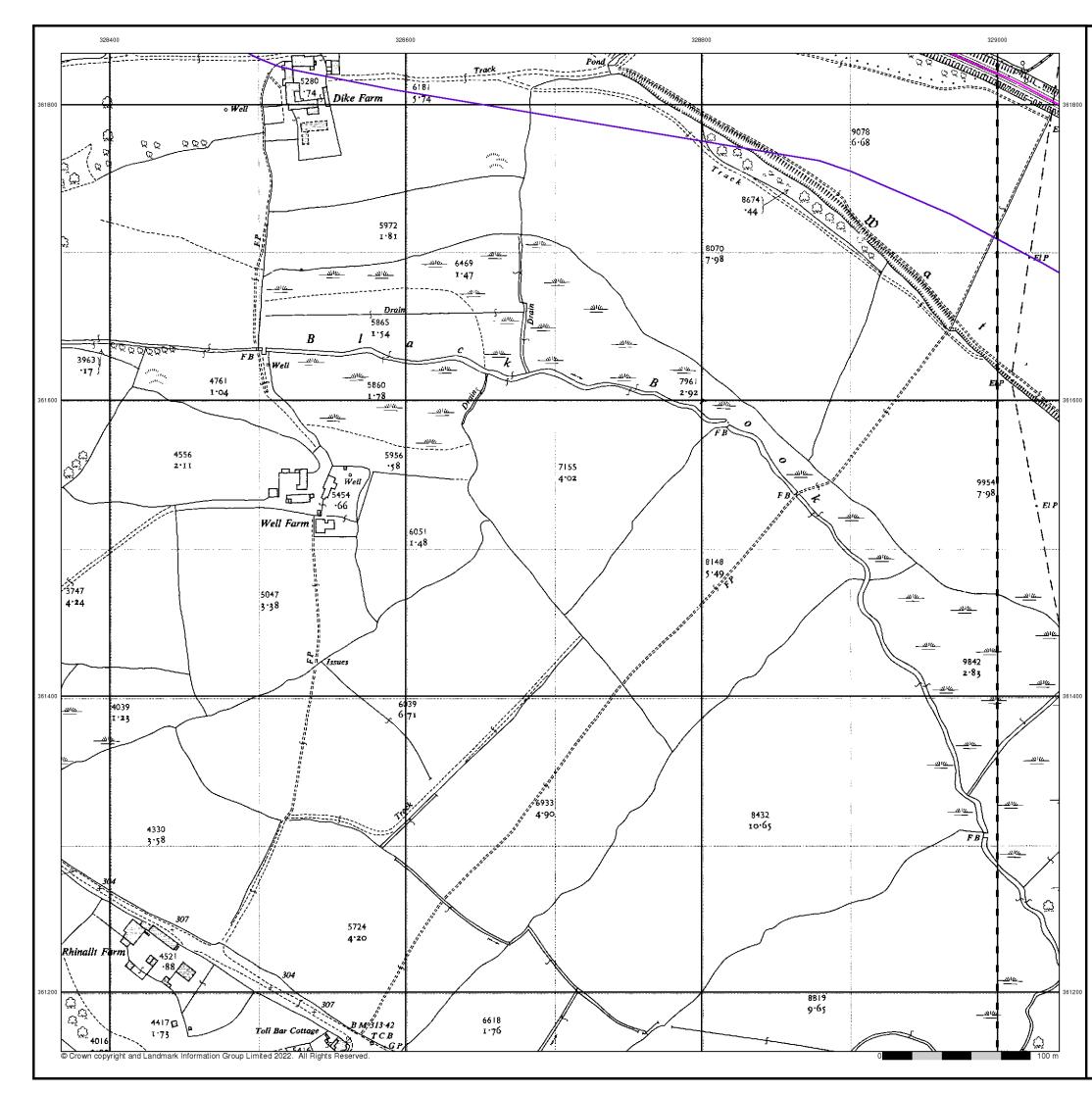
А 71.96 100

Site Details

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



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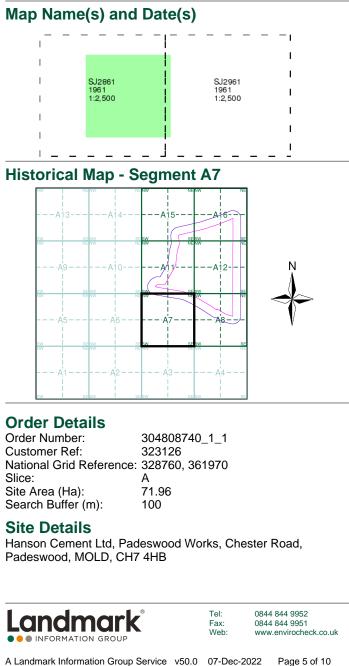


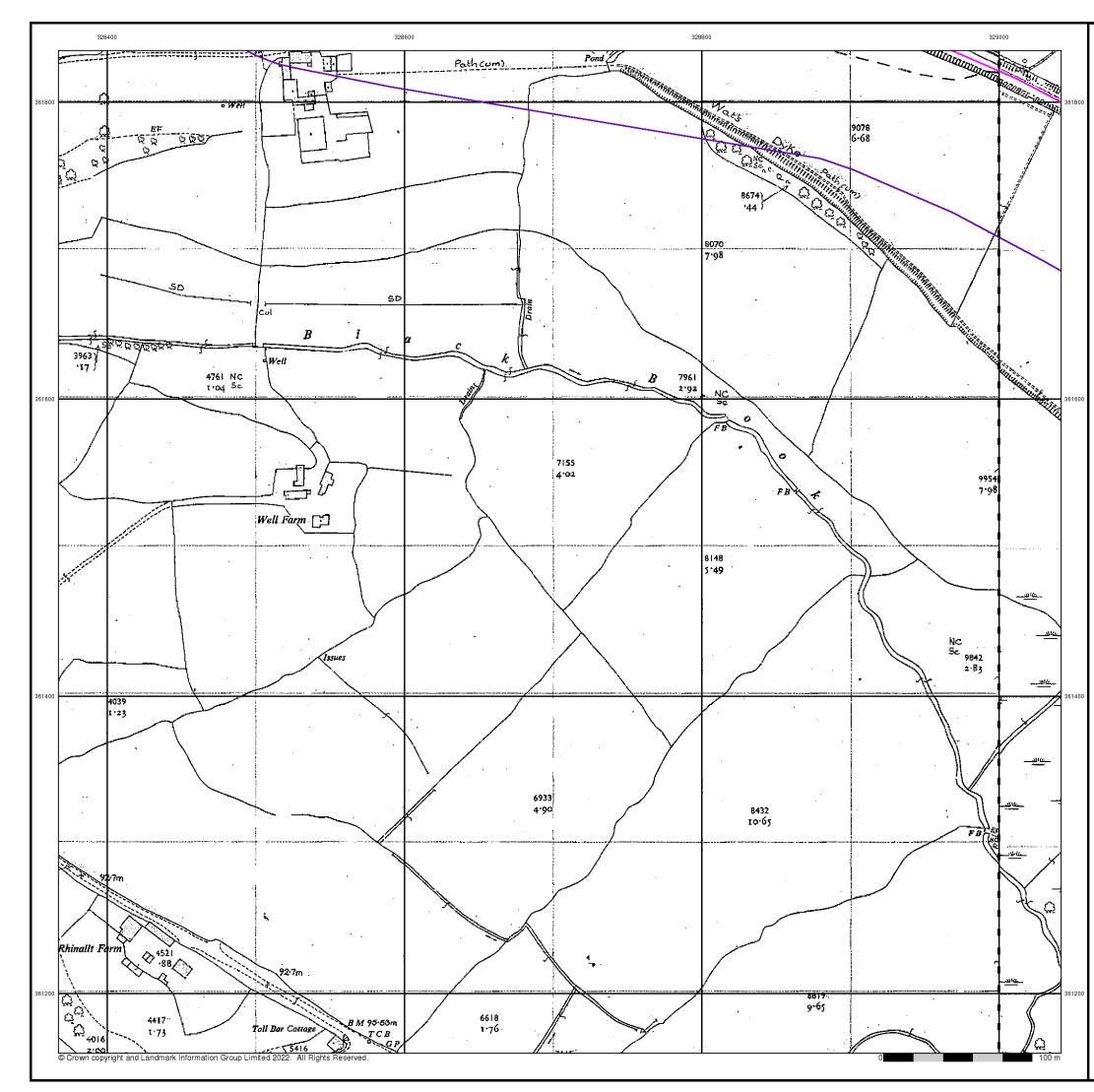


Published 1961

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.



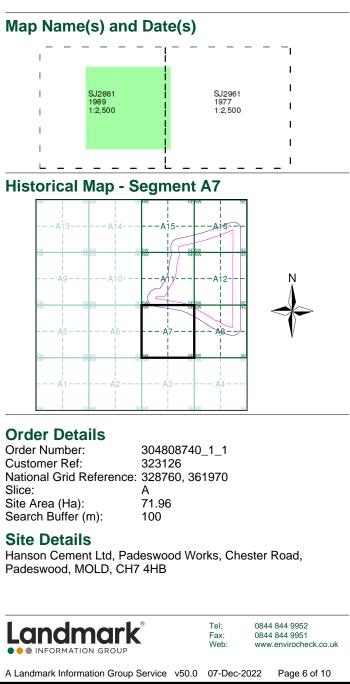


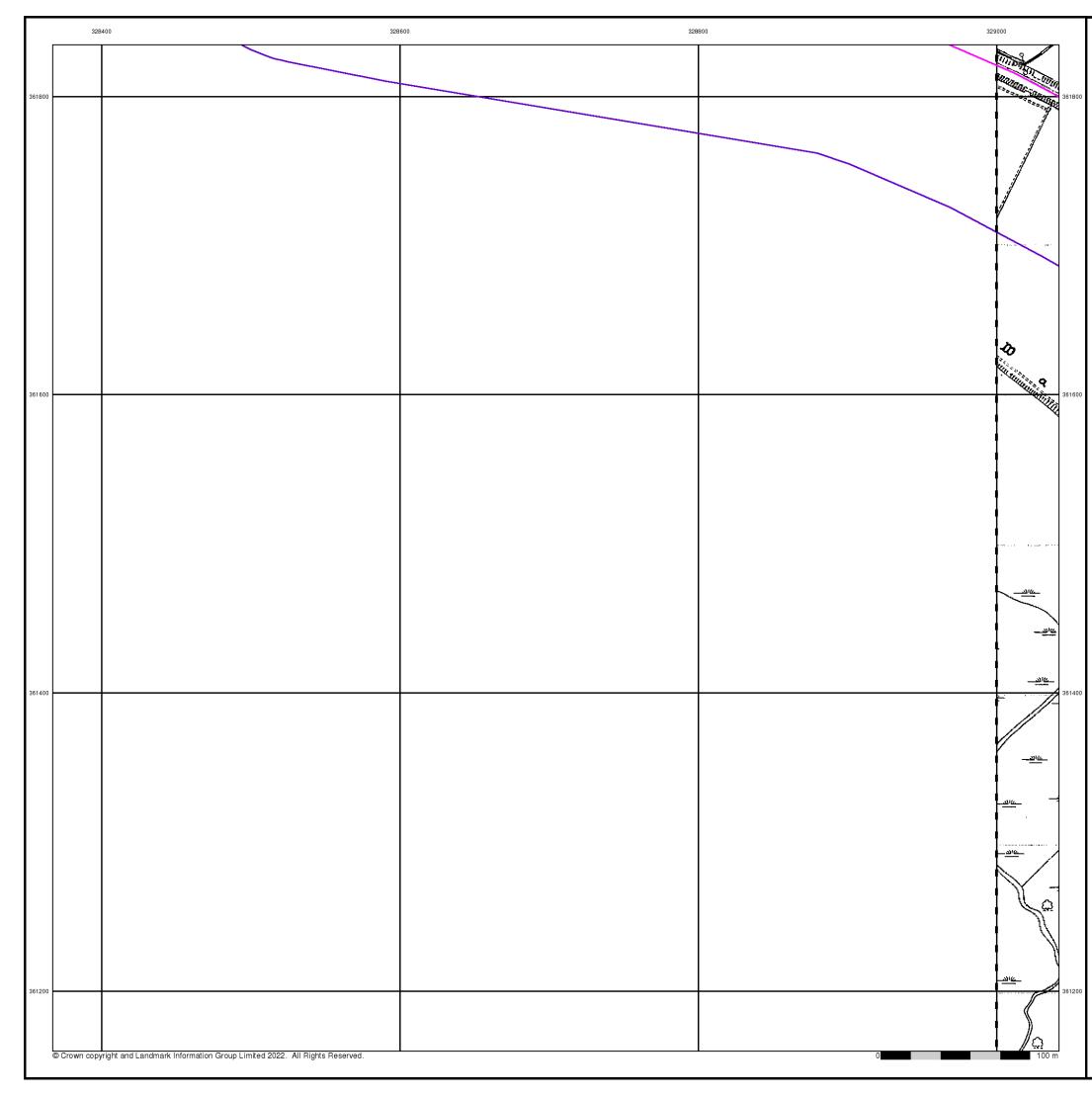


Additional SIMs Published 1977 - 1989

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.





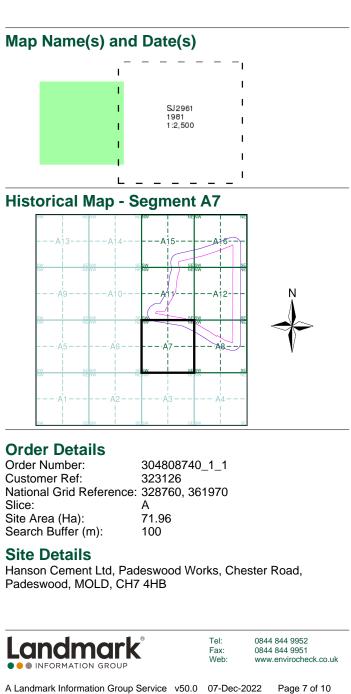


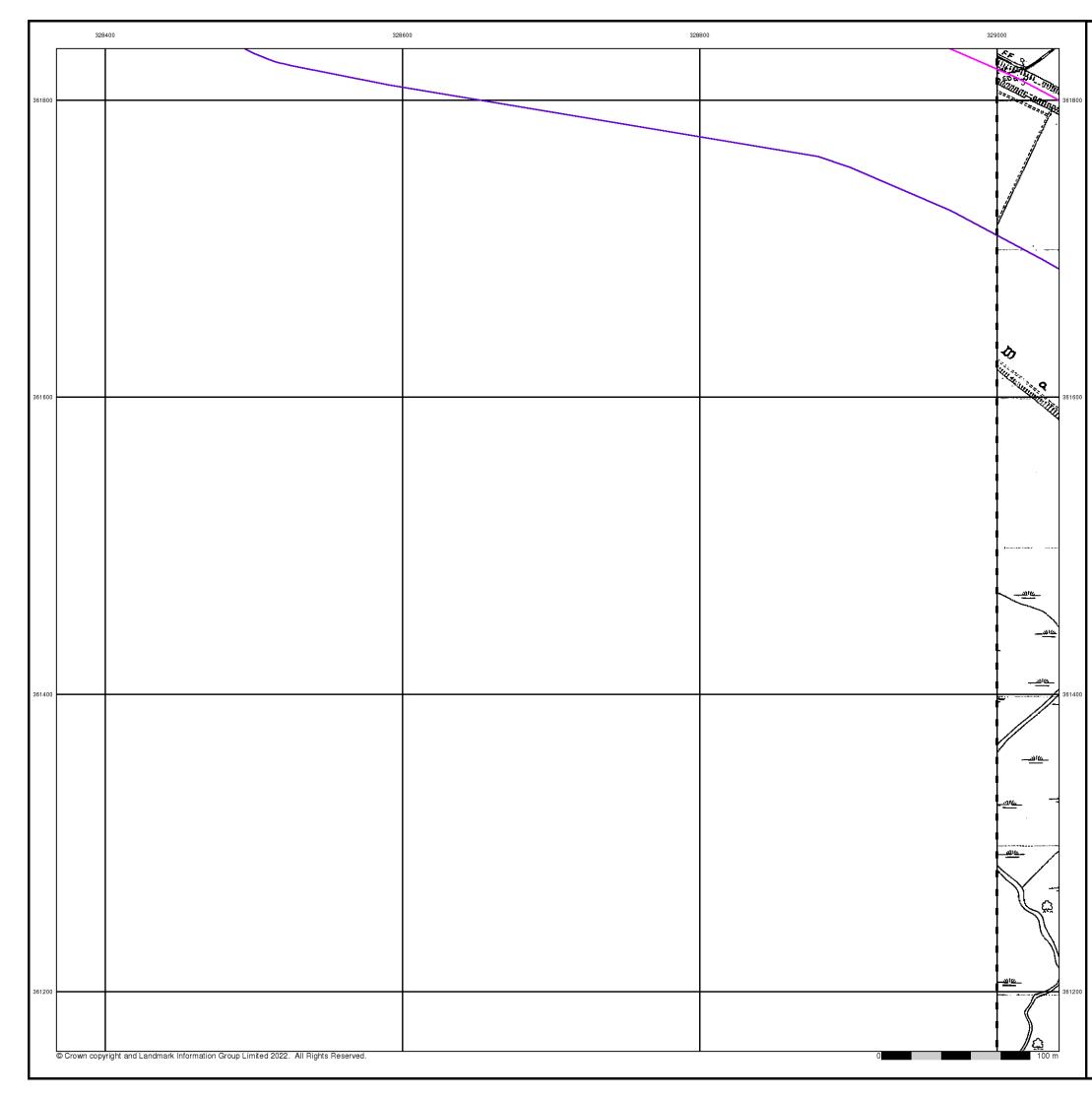
Additional SIMs

Published 1981

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.





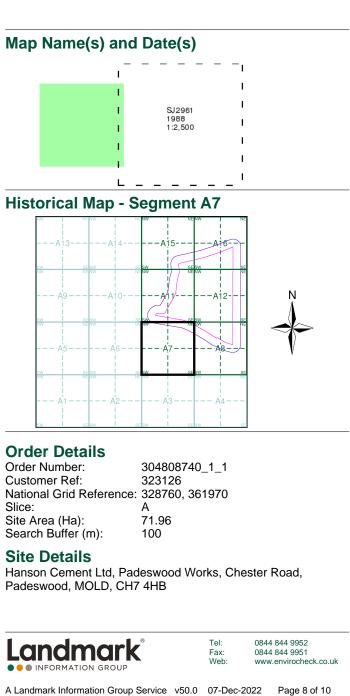


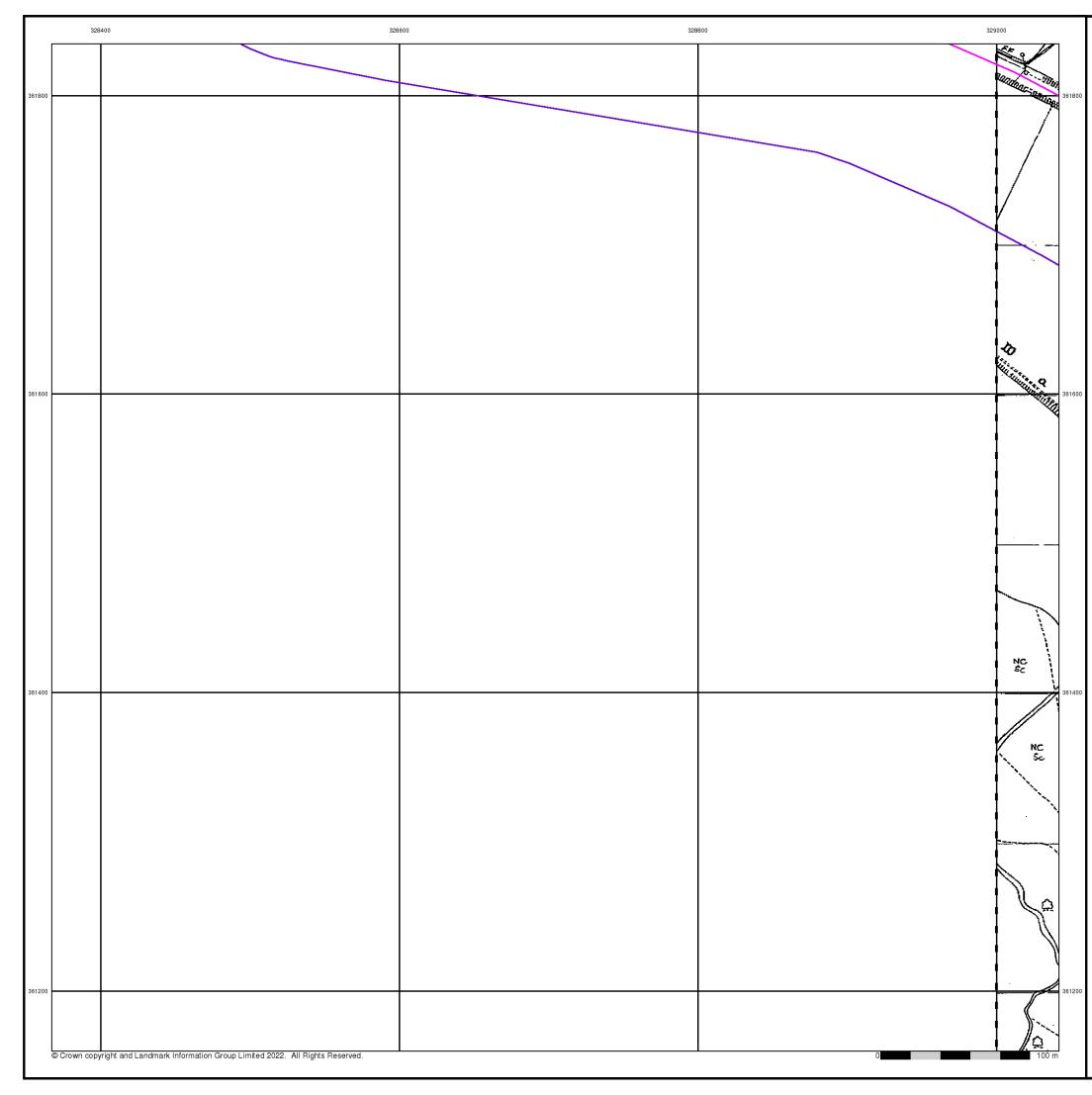
Additional SIMs

Published 1988

Source map scale - 1:2,500

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





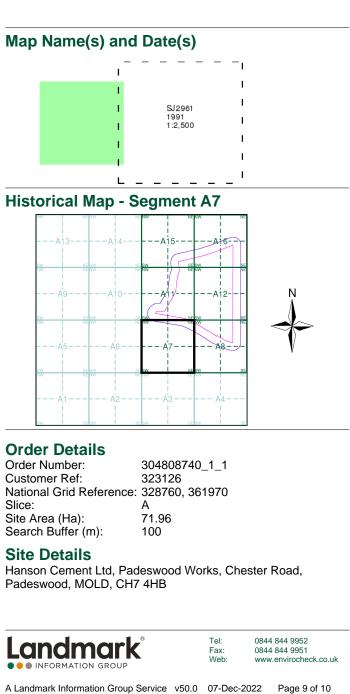


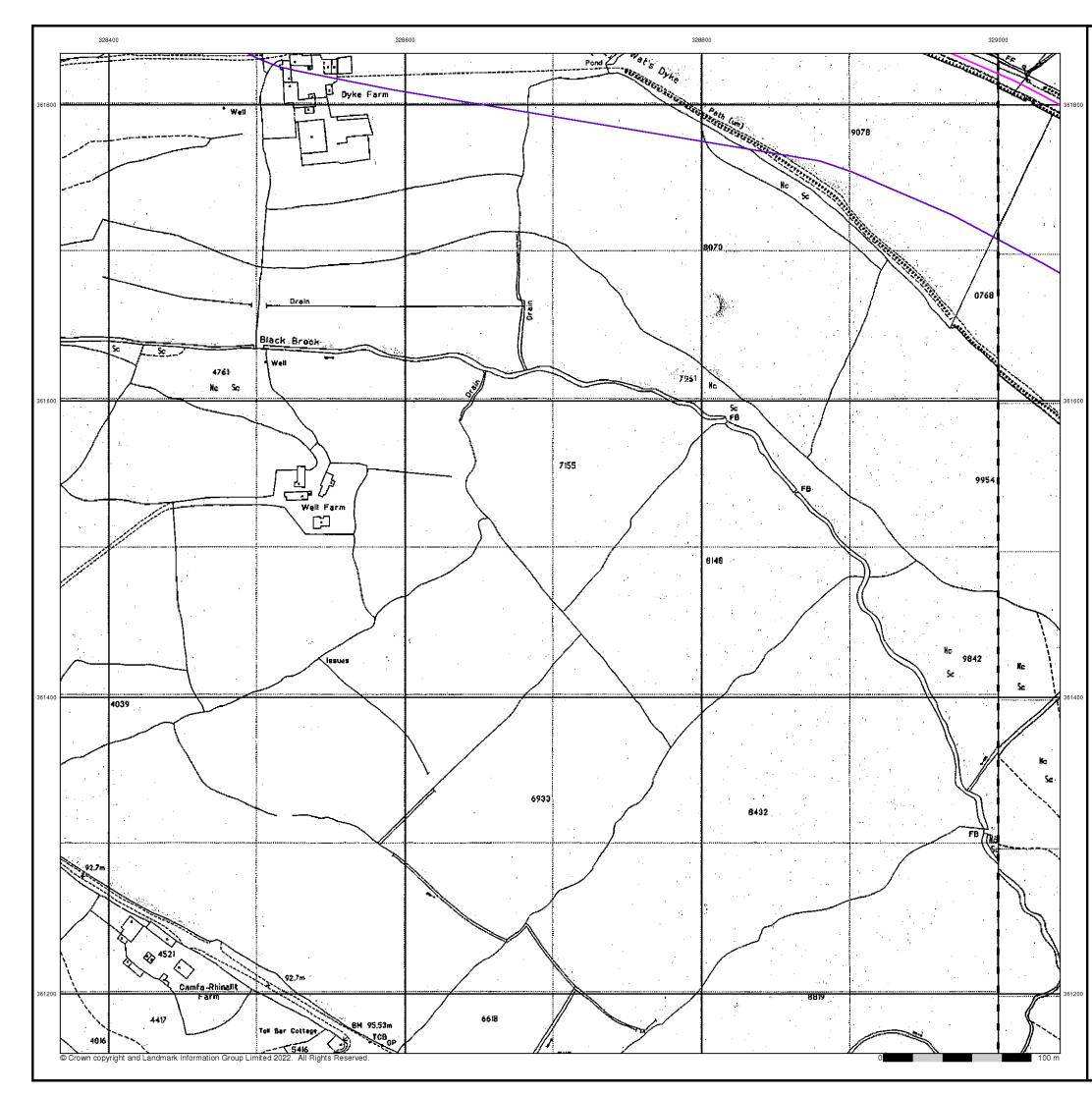
Additional SIMs

Published 1991

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.





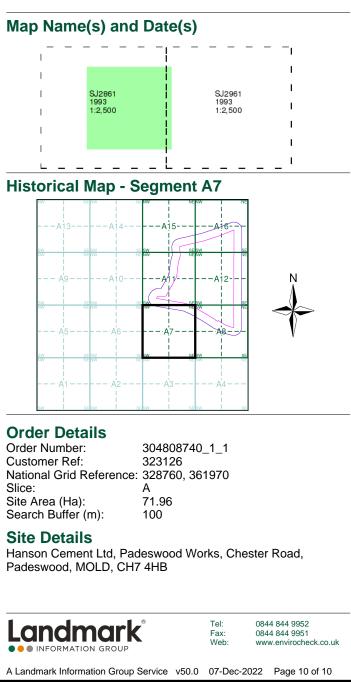


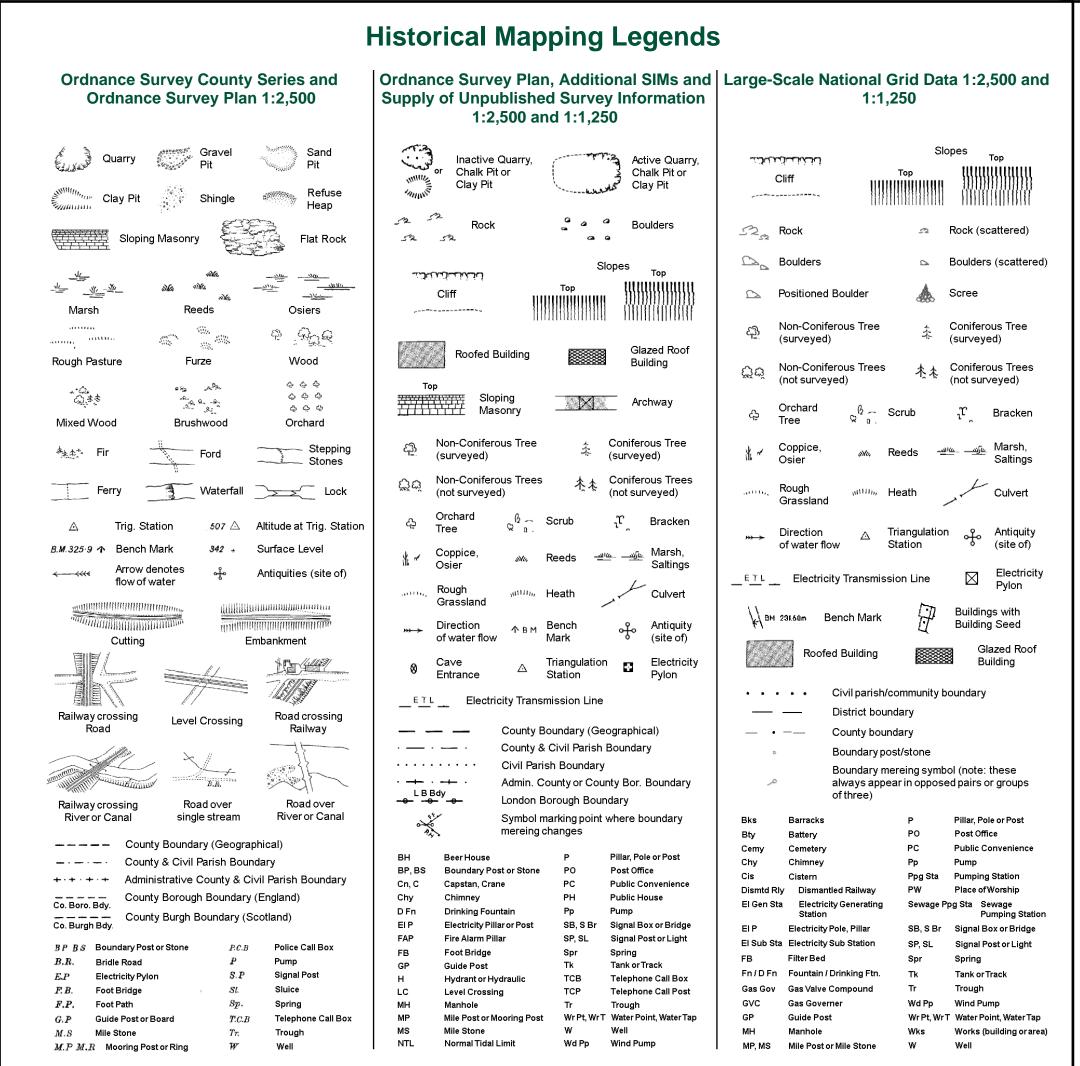
Large-Scale National Grid Data

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.

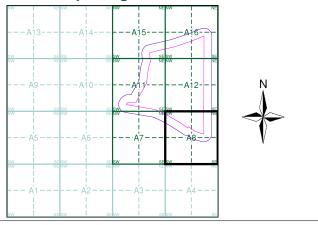




Historical Mapping & Photography included:

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

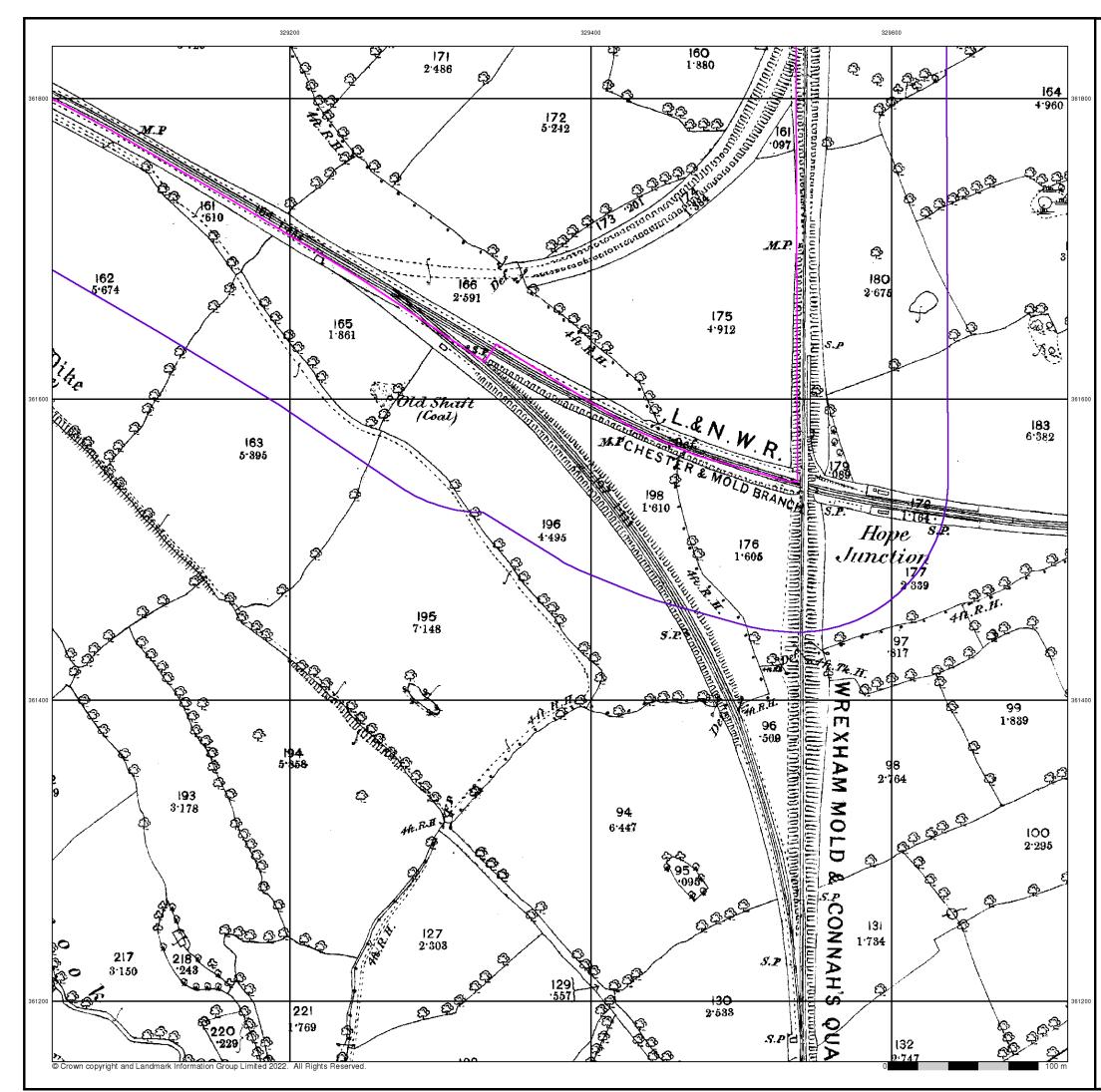
304808740_1_1 323126 Α 71.96 100

Site Details

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





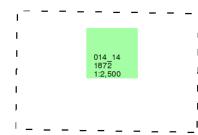




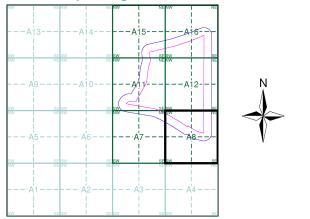
Published 1872 Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

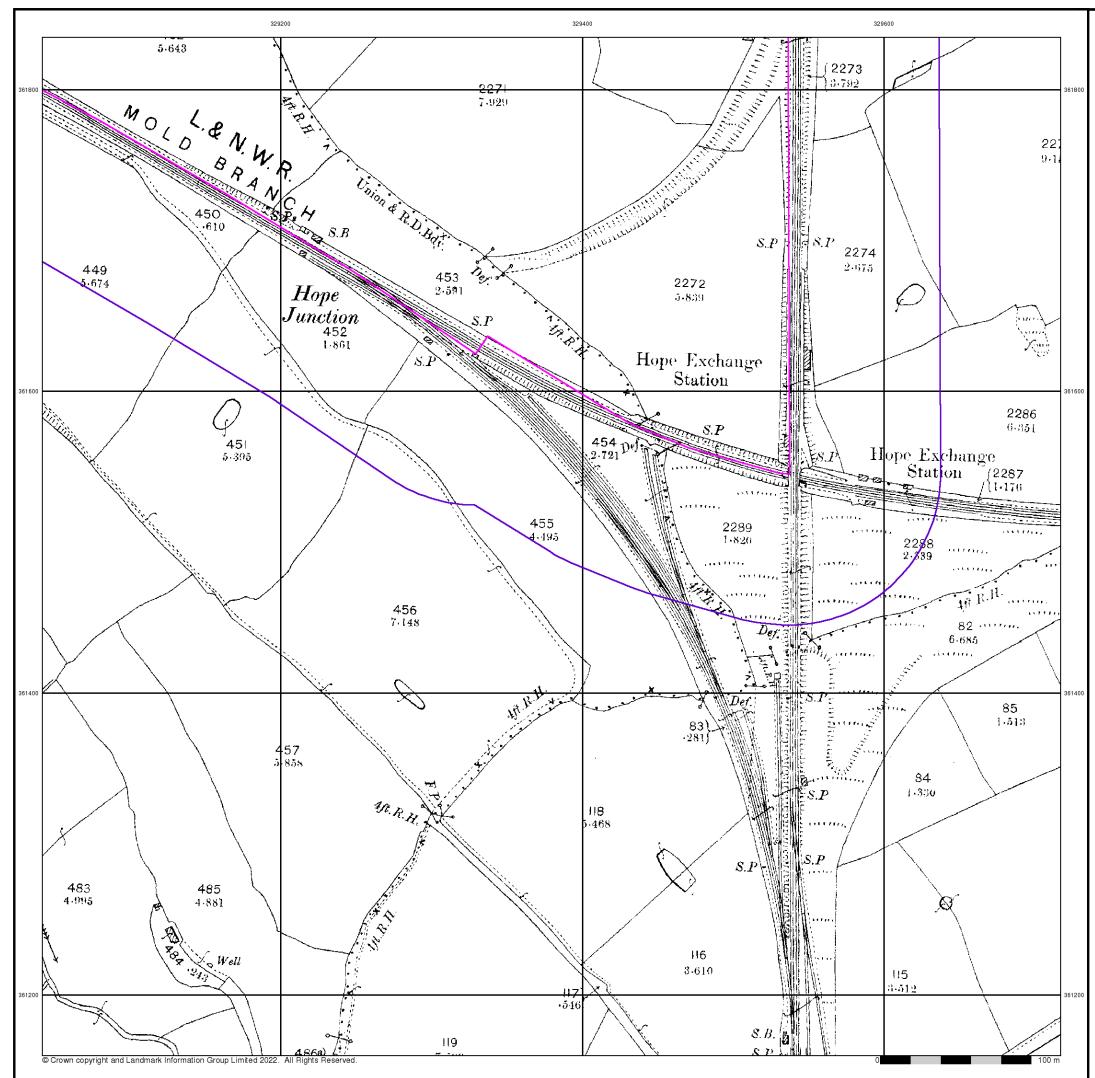
304808740_1_1 323126 А 71.96 100

Site Details

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



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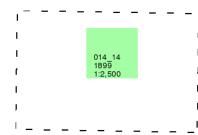




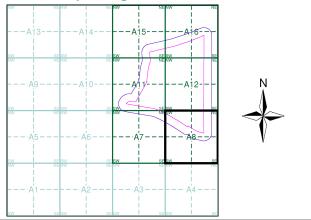
Published 1899 Source map scale - 1:2,500

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 A8



Order Details

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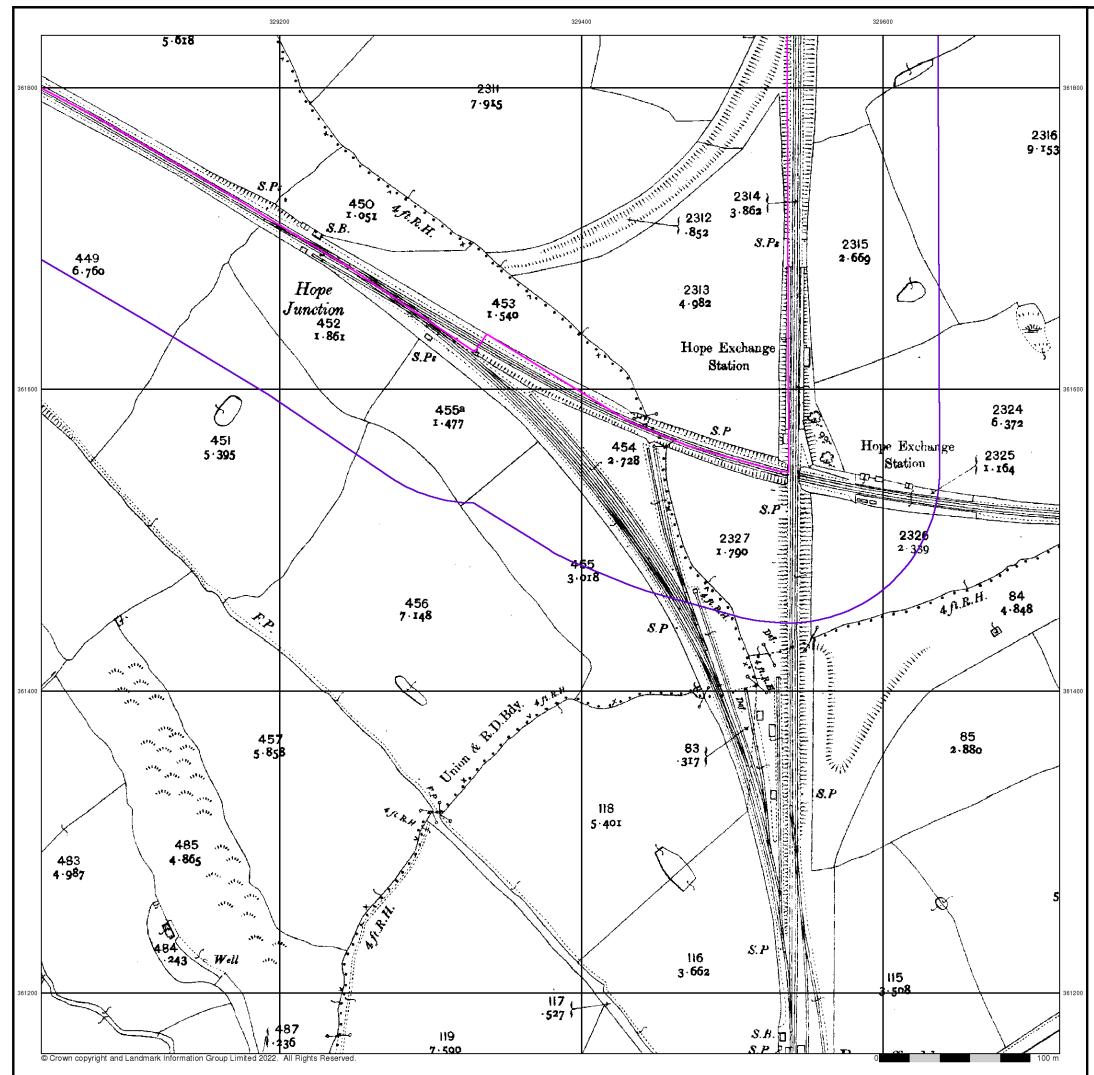
304808740_1_1 323126 А 71.96 100

Site Details

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



Tel: Fax: Web:

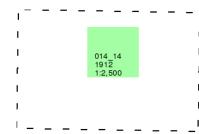




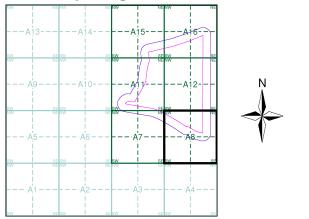
Published 1912 Source map scale - 1:2,500

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 A8



Order Details

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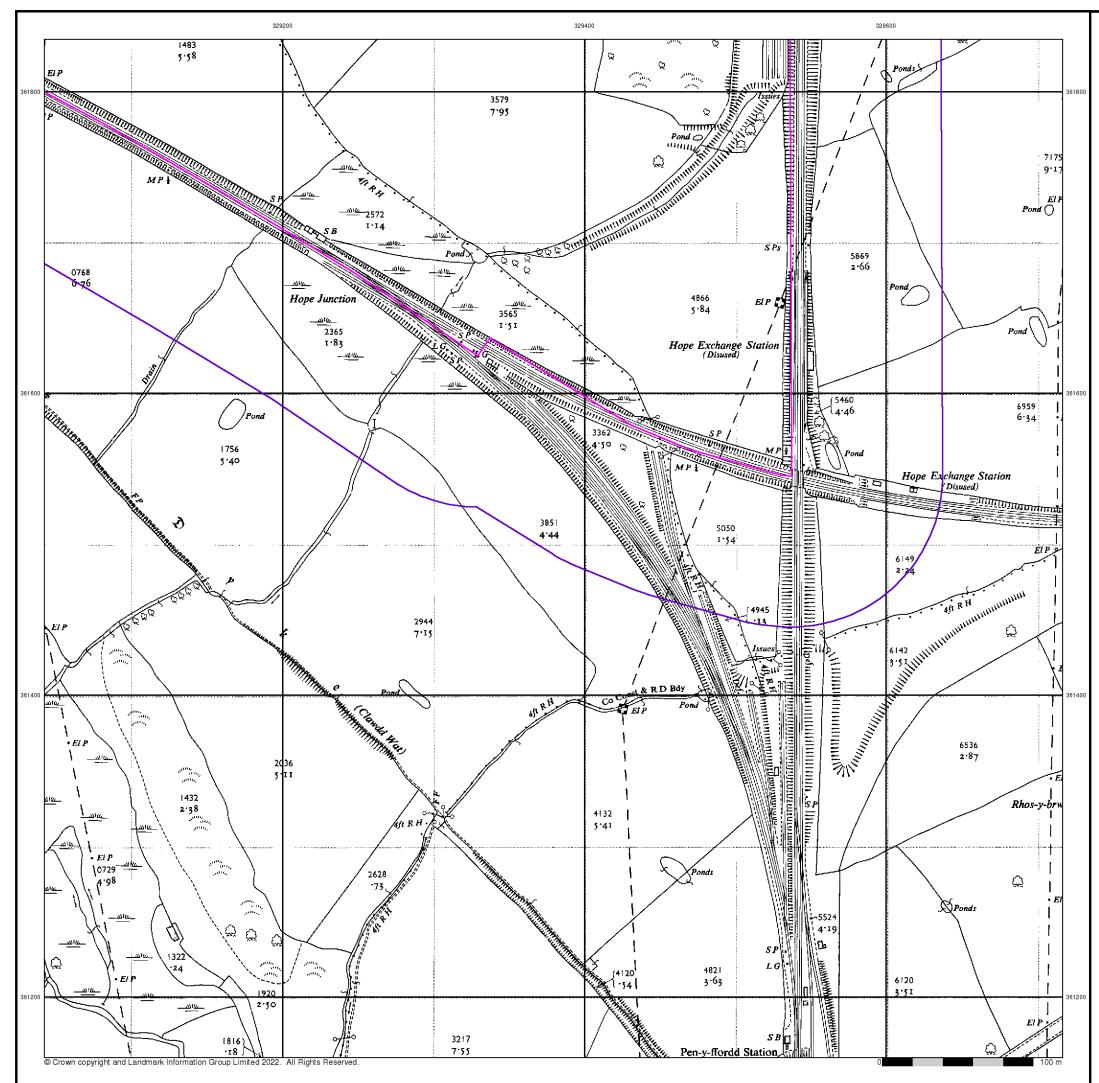
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





Published 1961

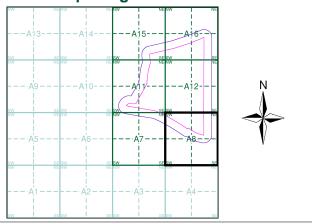
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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

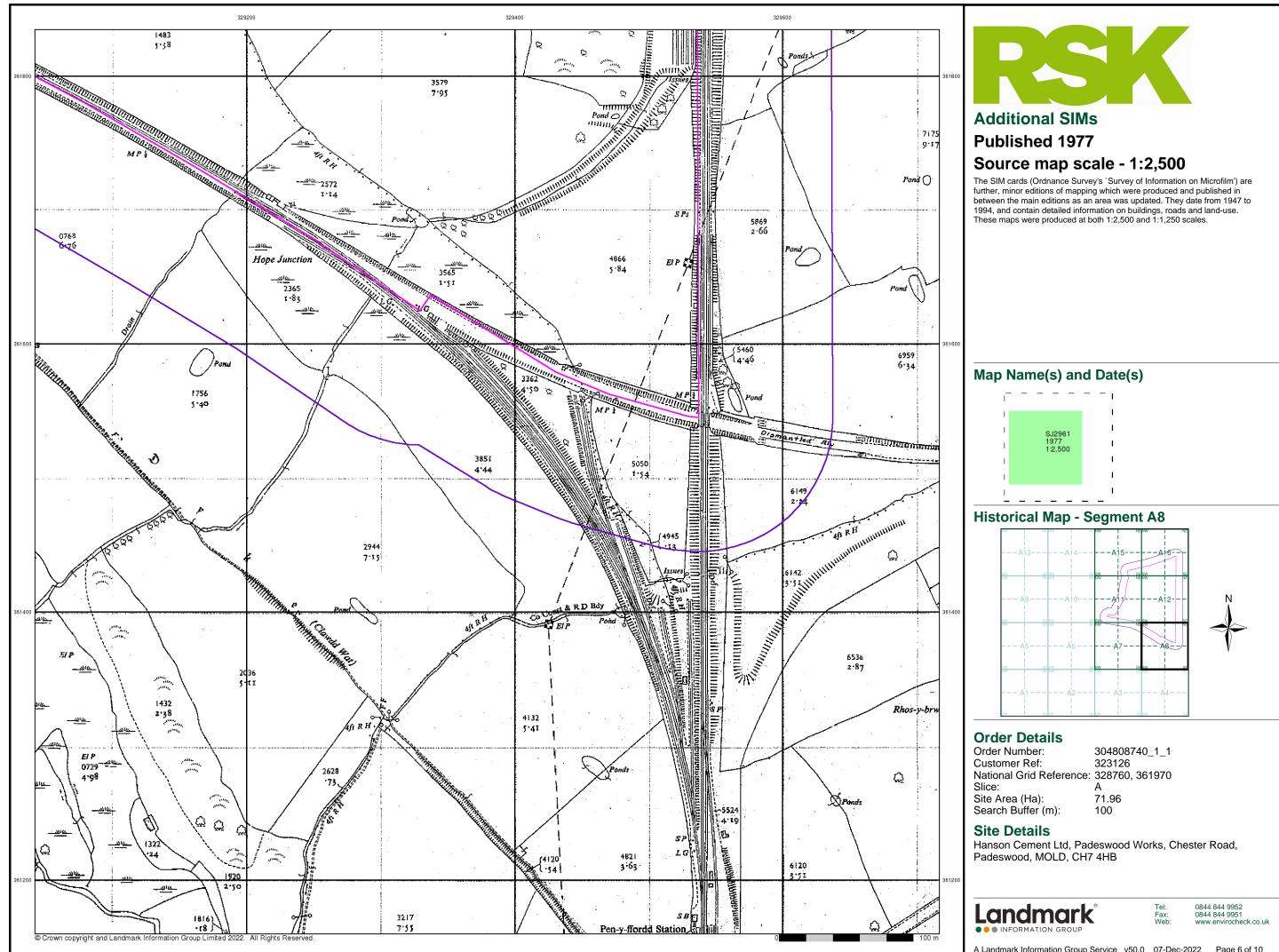
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Site Details

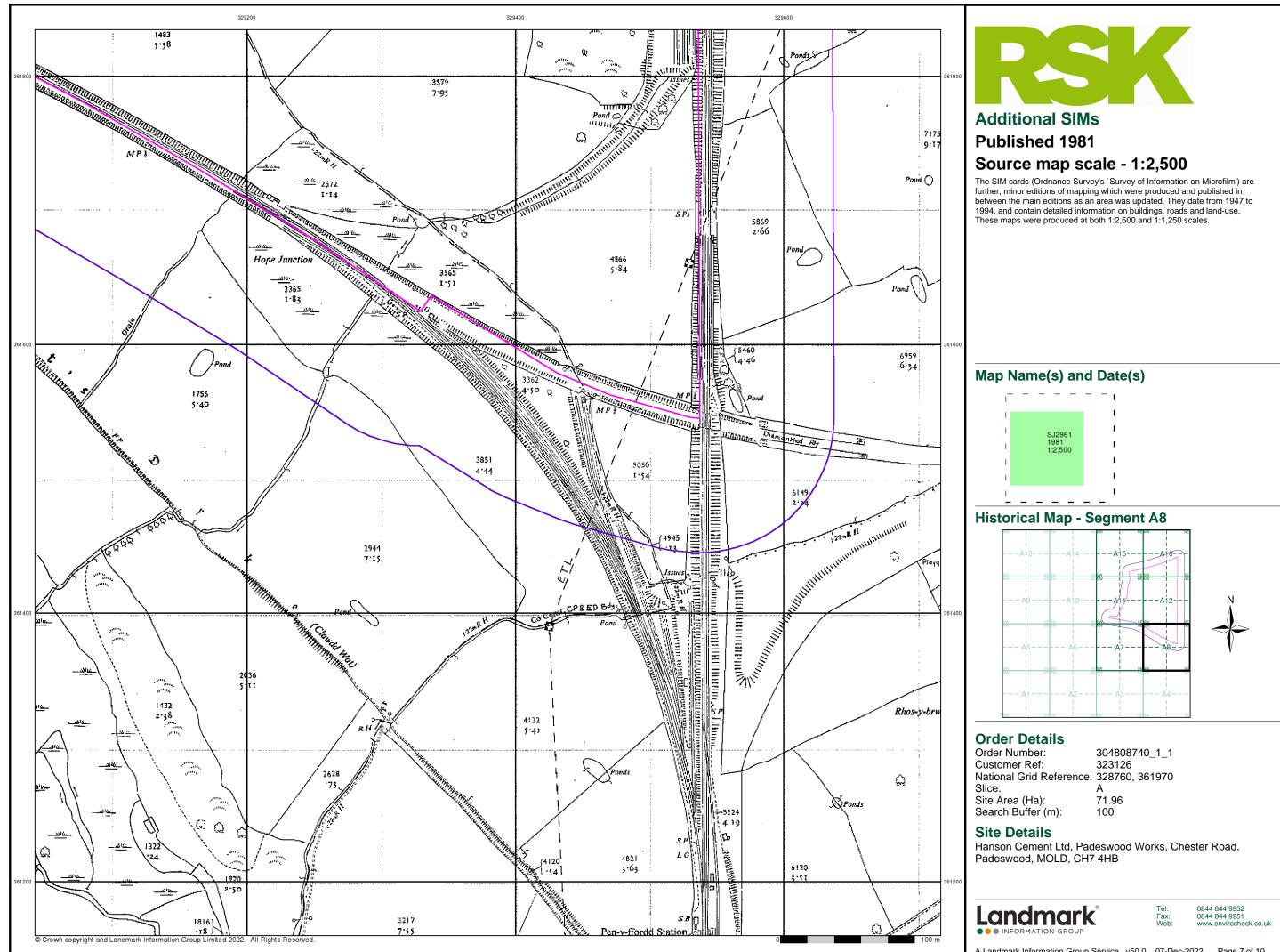
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



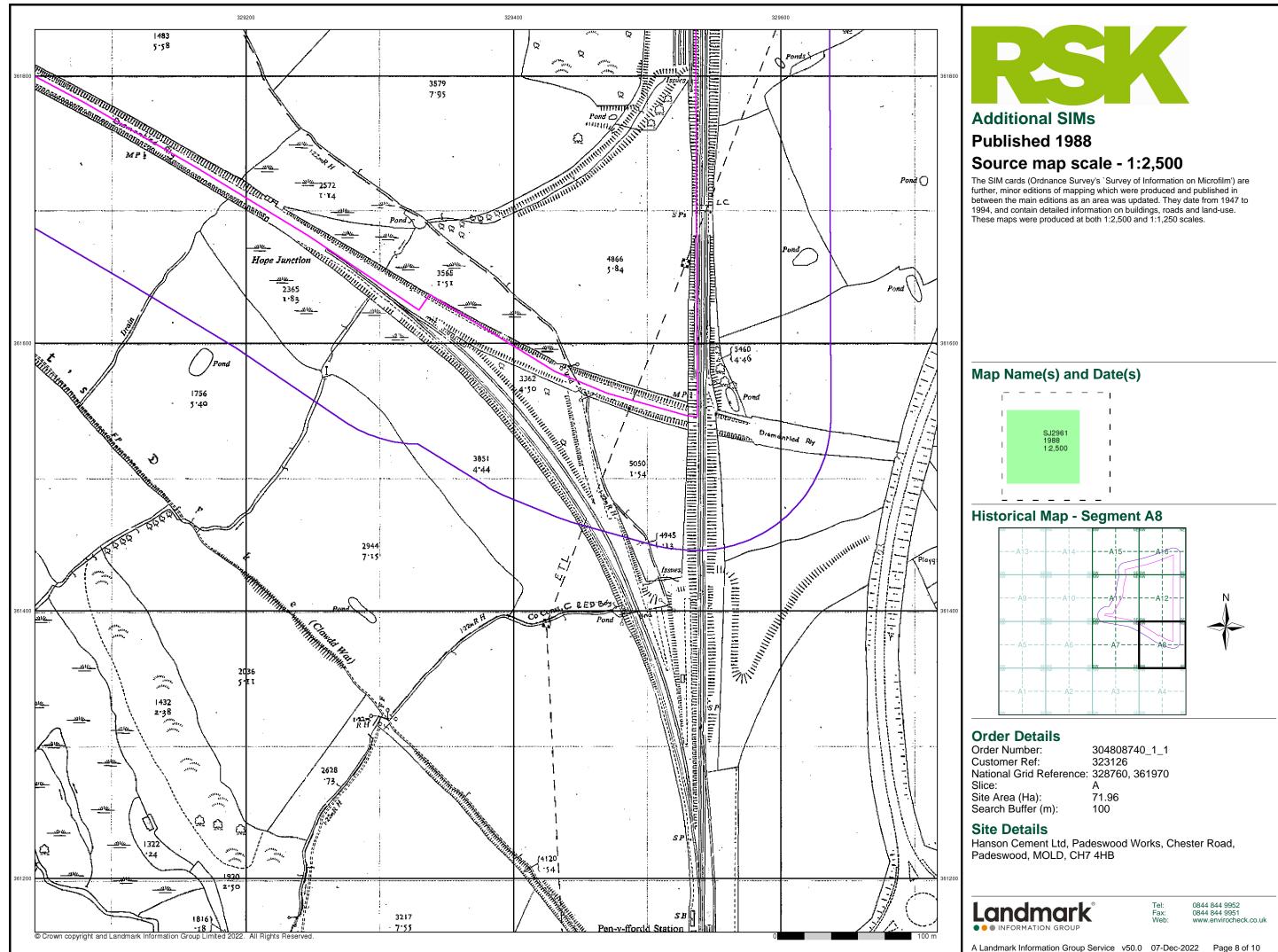
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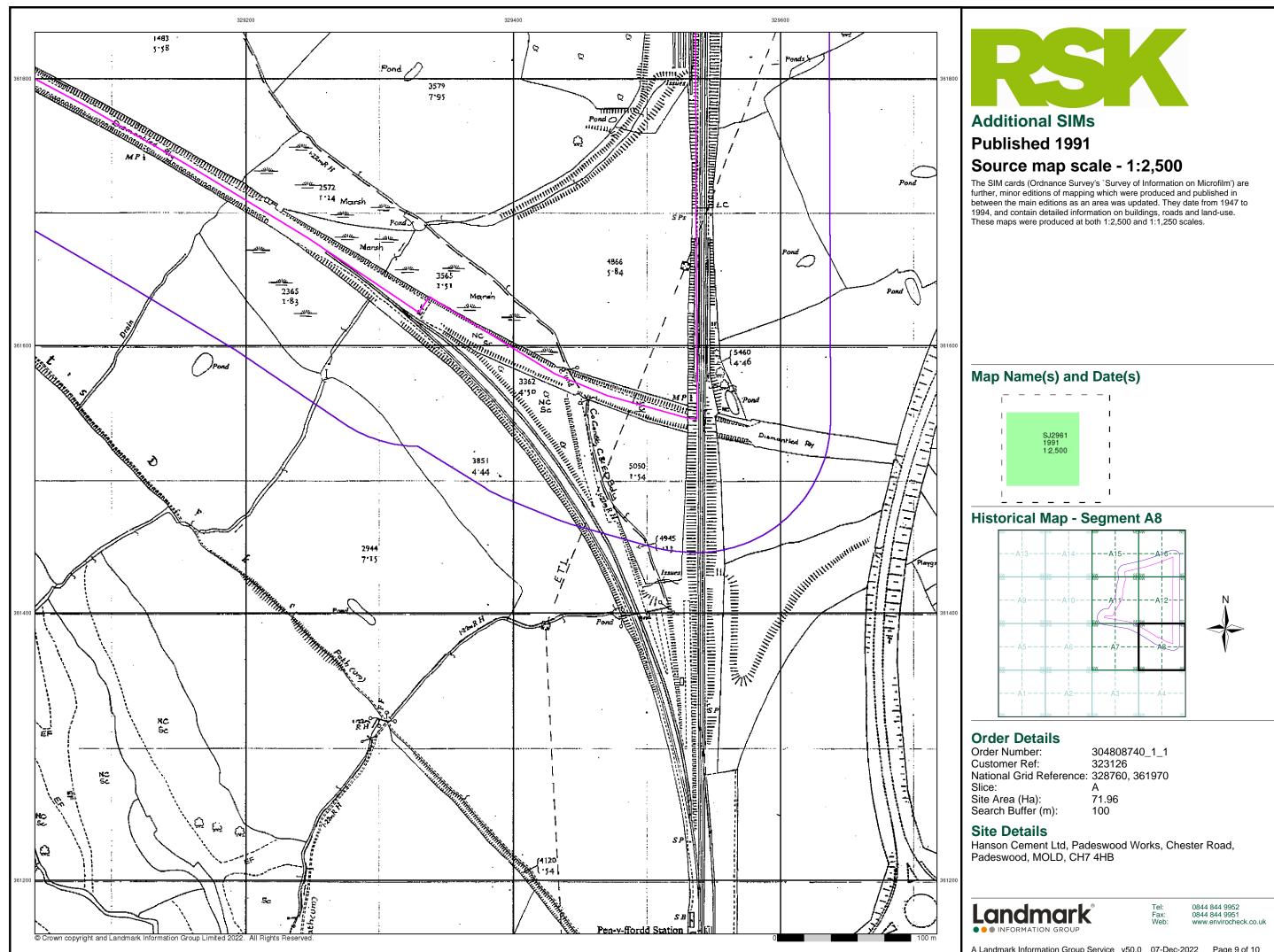




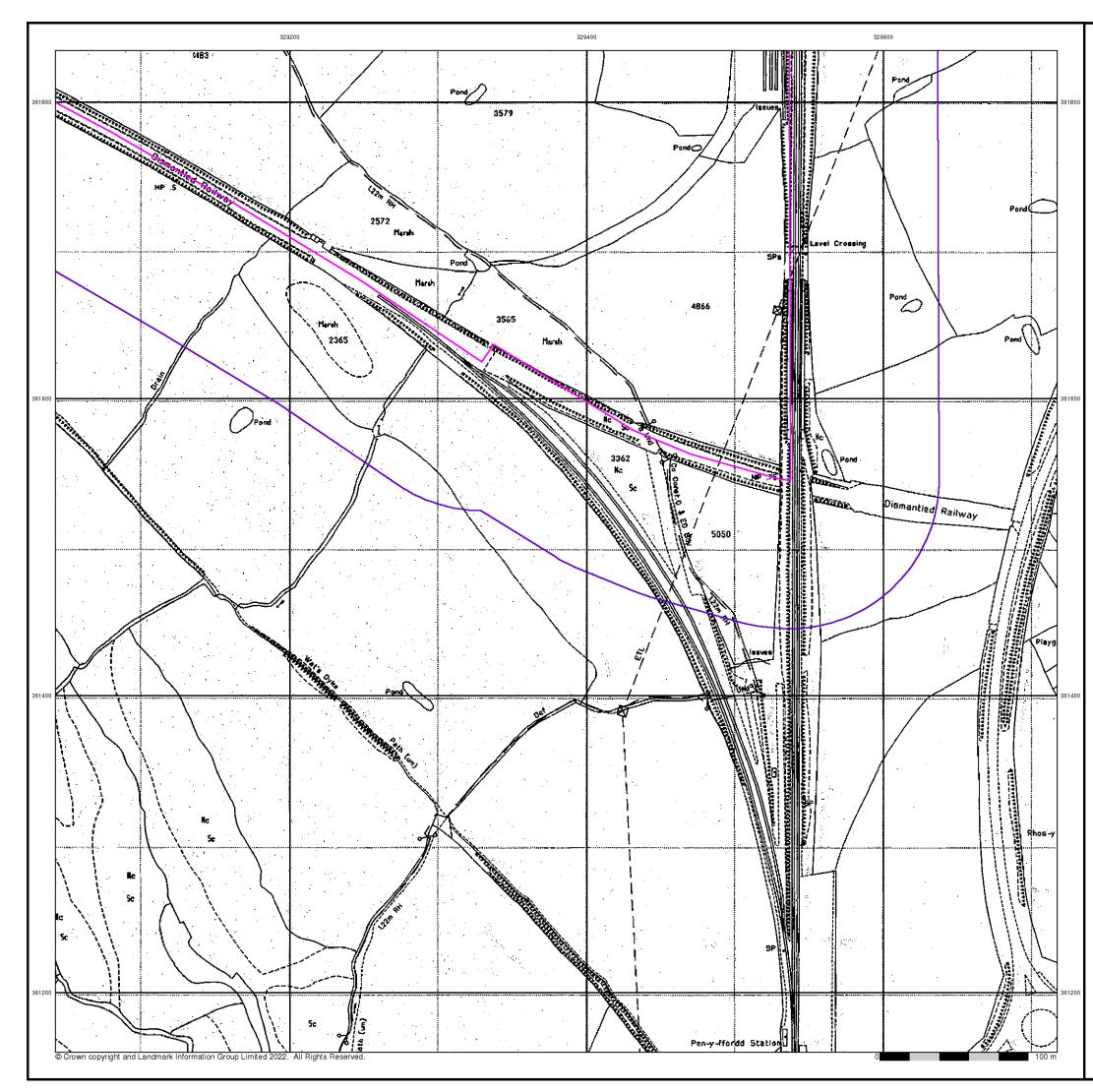














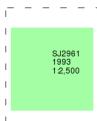
Large-Scale National Grid Data

Published 1993

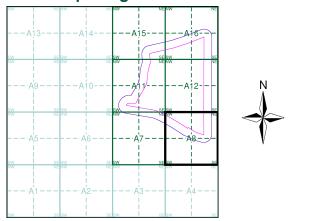
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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

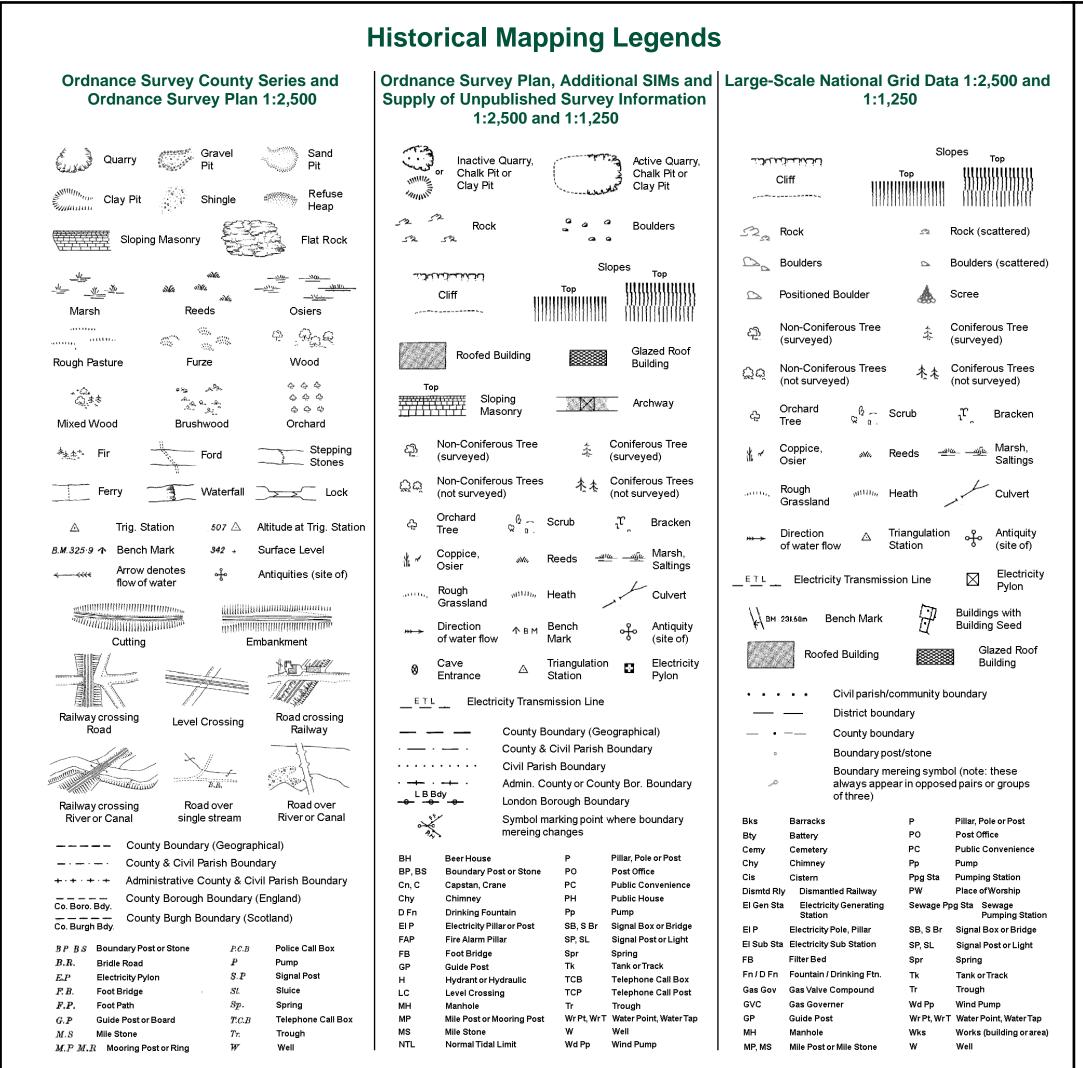
304808740_1_1 323126 А 71.96 100

Site Details

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



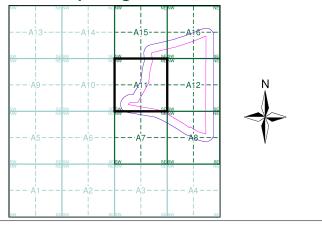
Tel: Fax: Web:



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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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

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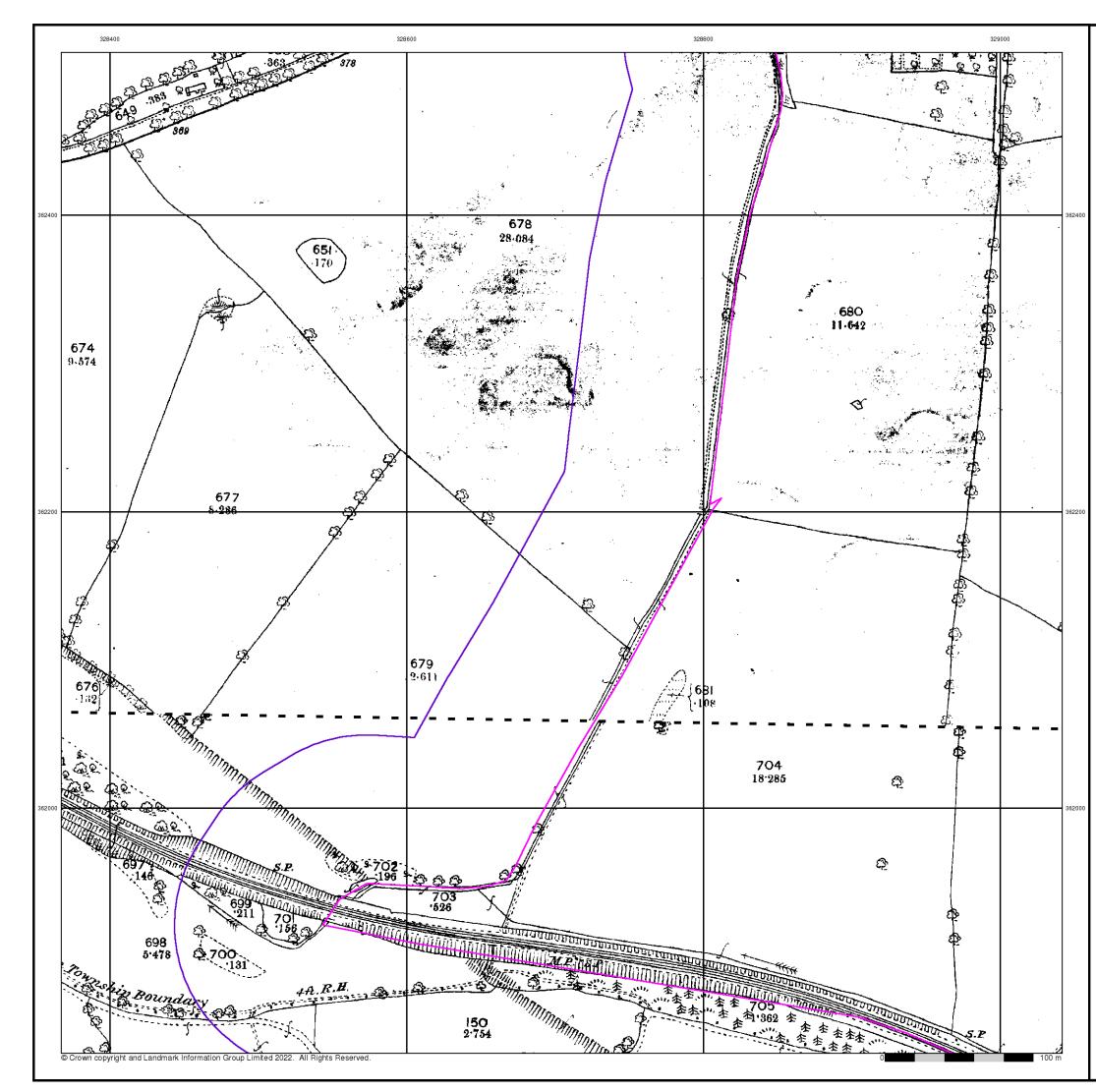
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Site Details

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



Tel Fax: Web

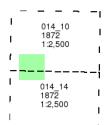




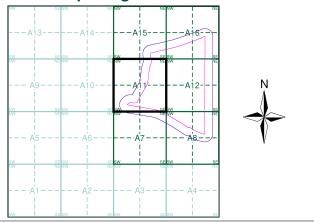
Published 1872 Source map scale - 1:2,500

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 tor mapping urban areas and by 189 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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

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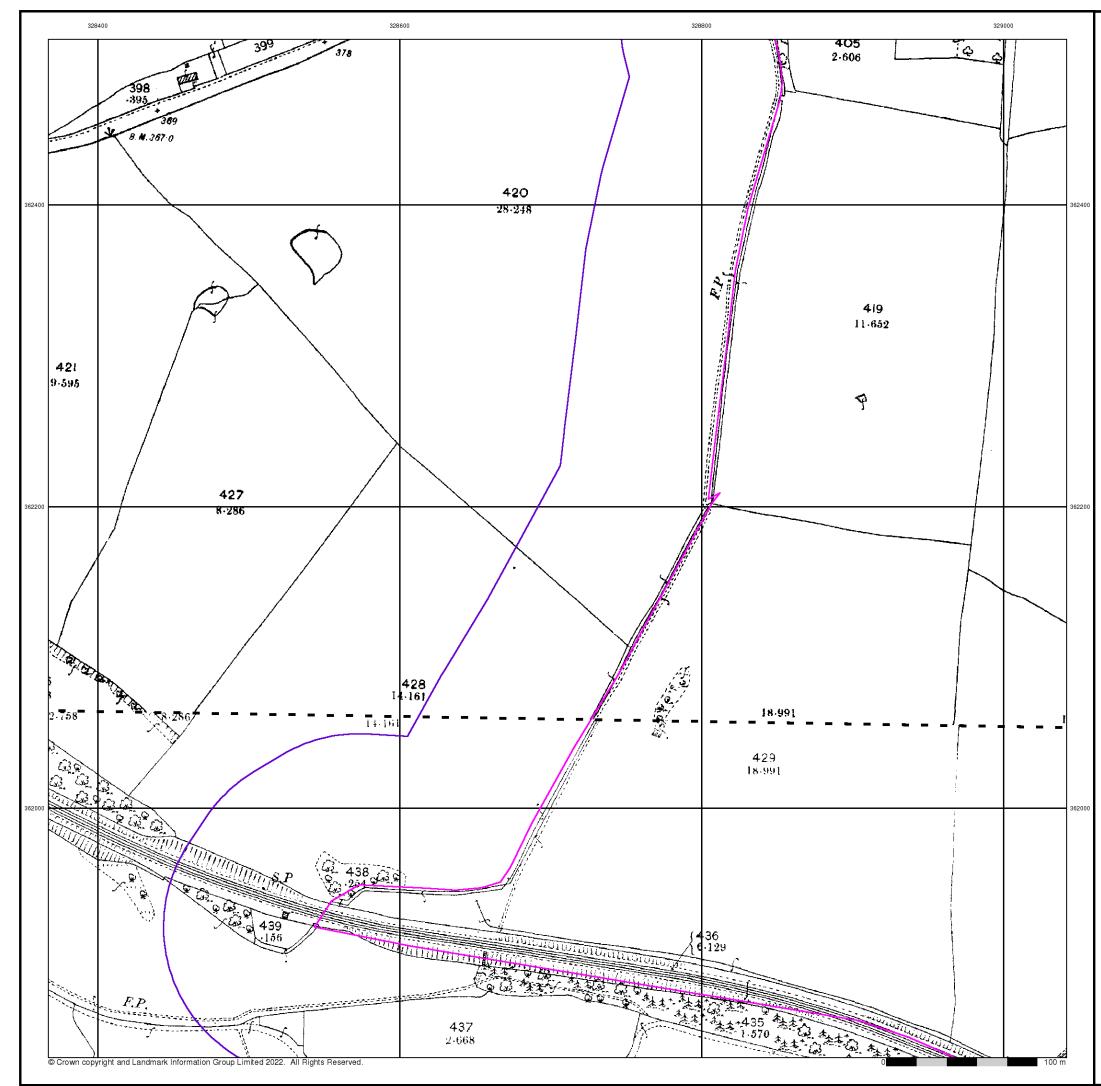
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



Tel: Fax: Web:

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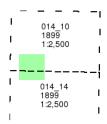




Published 1899 Source map scale - 1:2,500

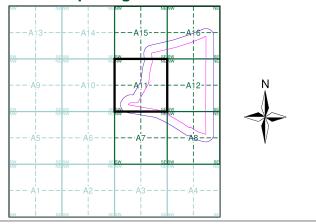
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)



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Historical Map - Segment A11



Order Details

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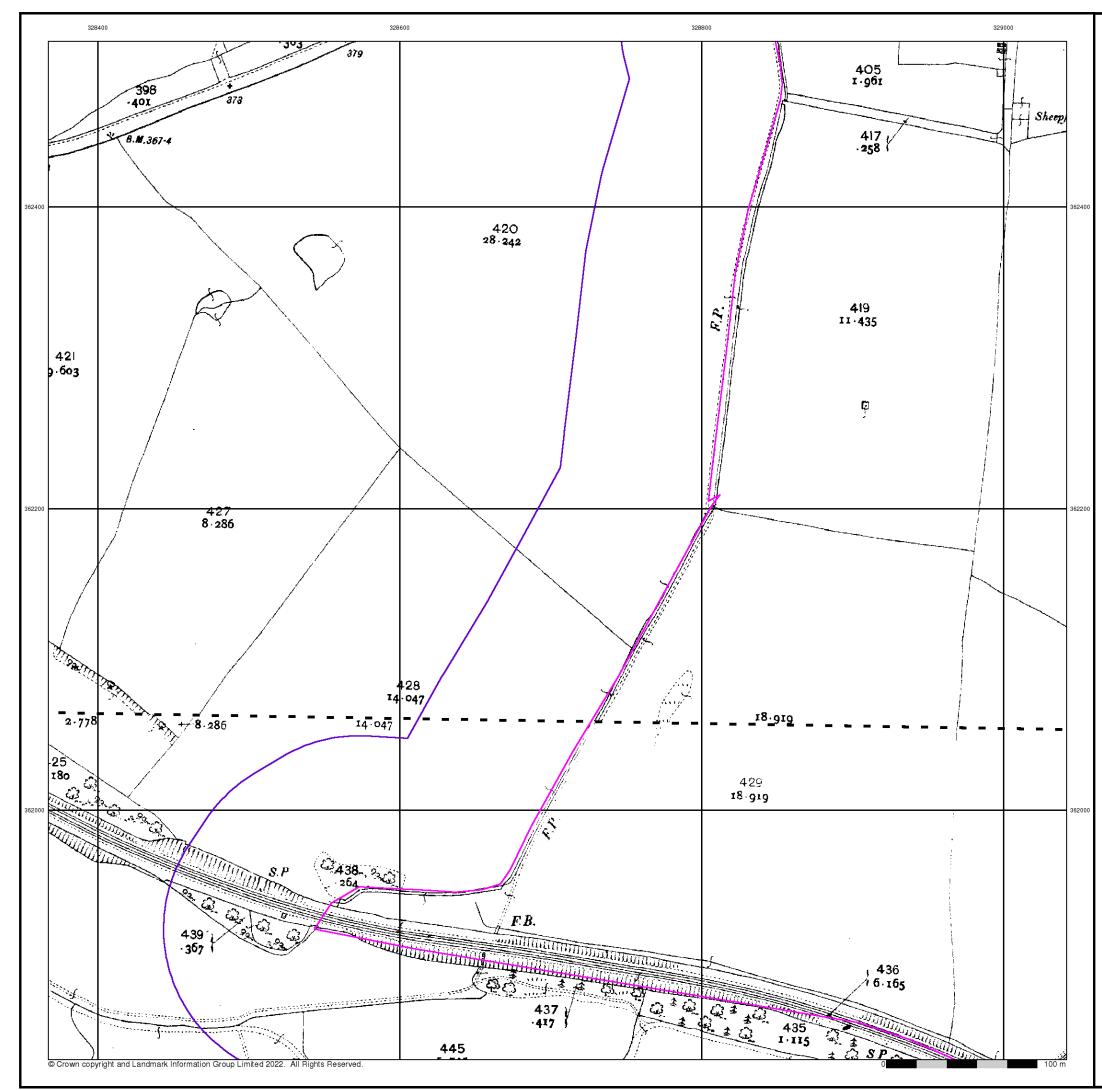
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:

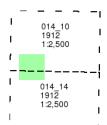




Published 1912 Source map scale - 1:2,500

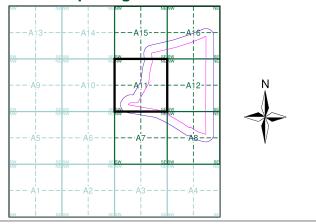
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)



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Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

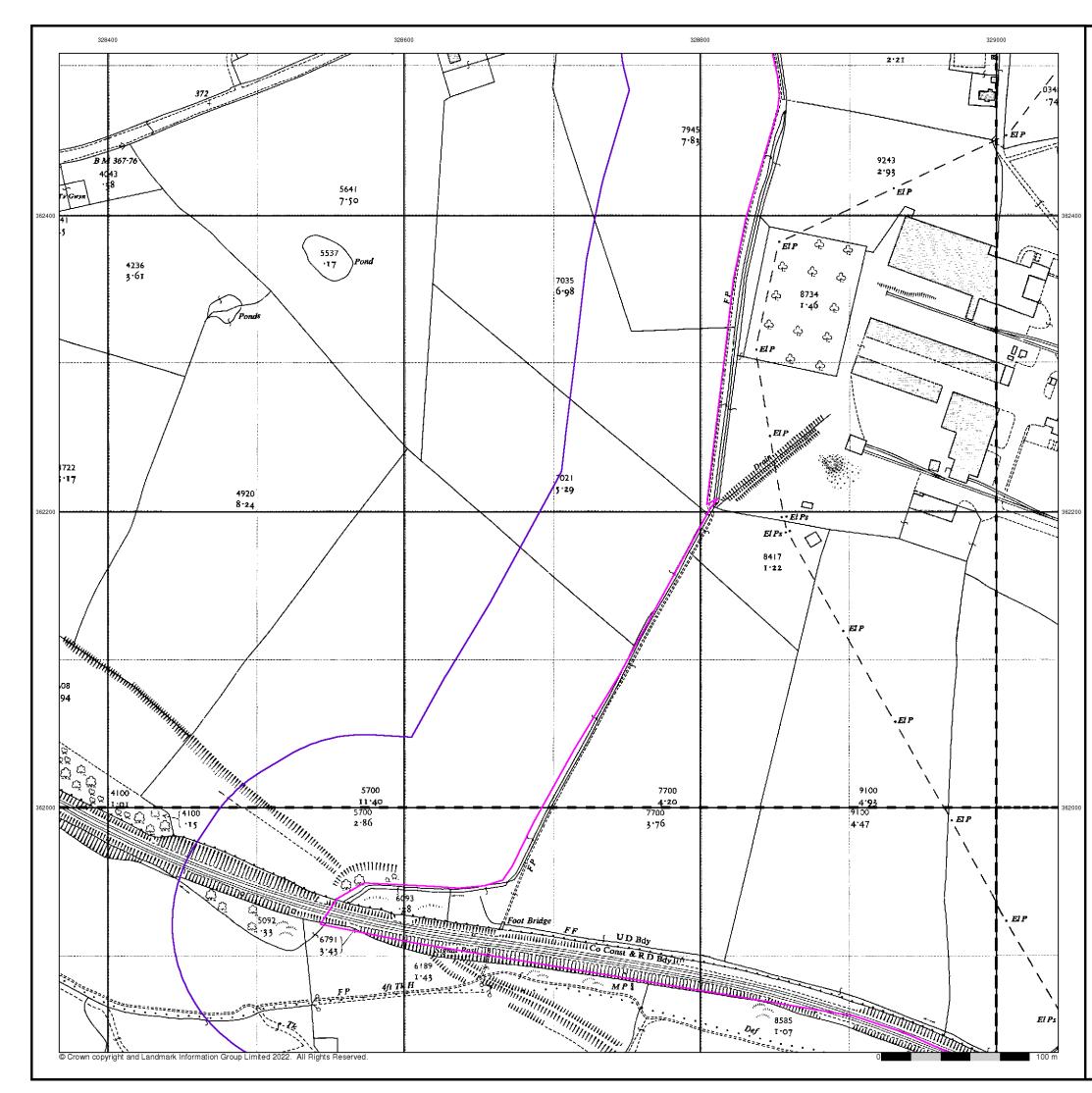
304808740_1_1 323126 А 71.96 100

Site Details

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



Tel: Fax: Web:



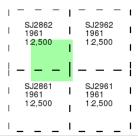


Published 1961

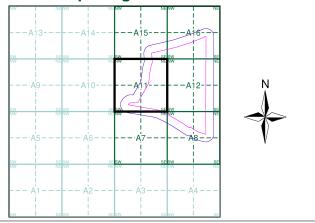
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

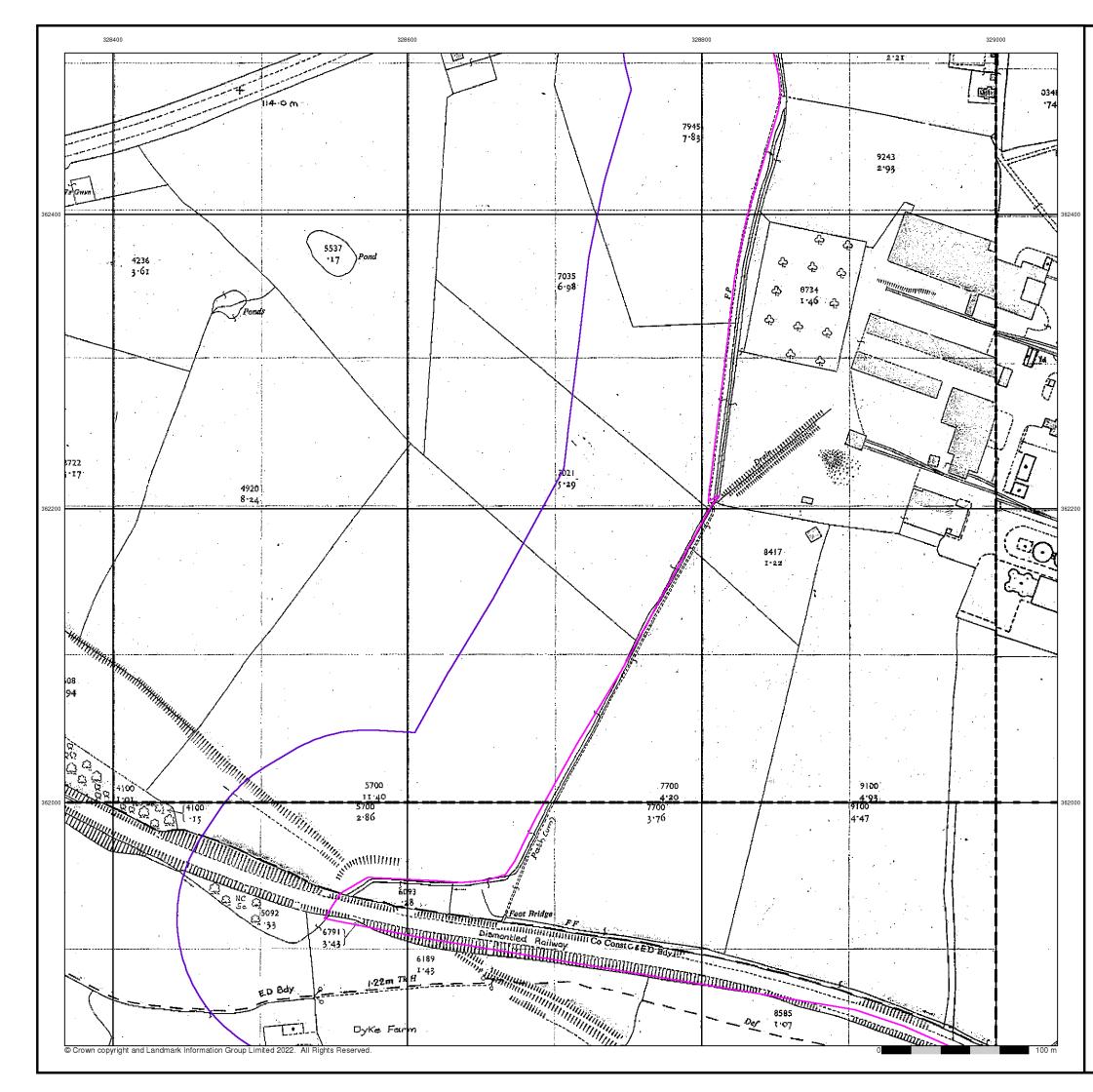
304808740_1_1 323126 Α 71.96 100

Site Details

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Tel: Fax: Web:





Additional SIMs Published 1977 - 1989

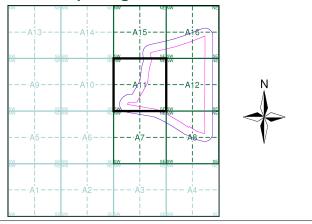
Source map scale - 1:2,500

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)

—				—
T	SJ2862	I.	SJ2962	I
I	1979 1: <mark>2,500</mark>	-	1979 1:2,500	I
1		1		Т
-				_
- I	 SJ2861			-
 	SJ2861 1989 1:2,500	 1 1	SJ2961 1977 1:2,500	- 1 1

Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

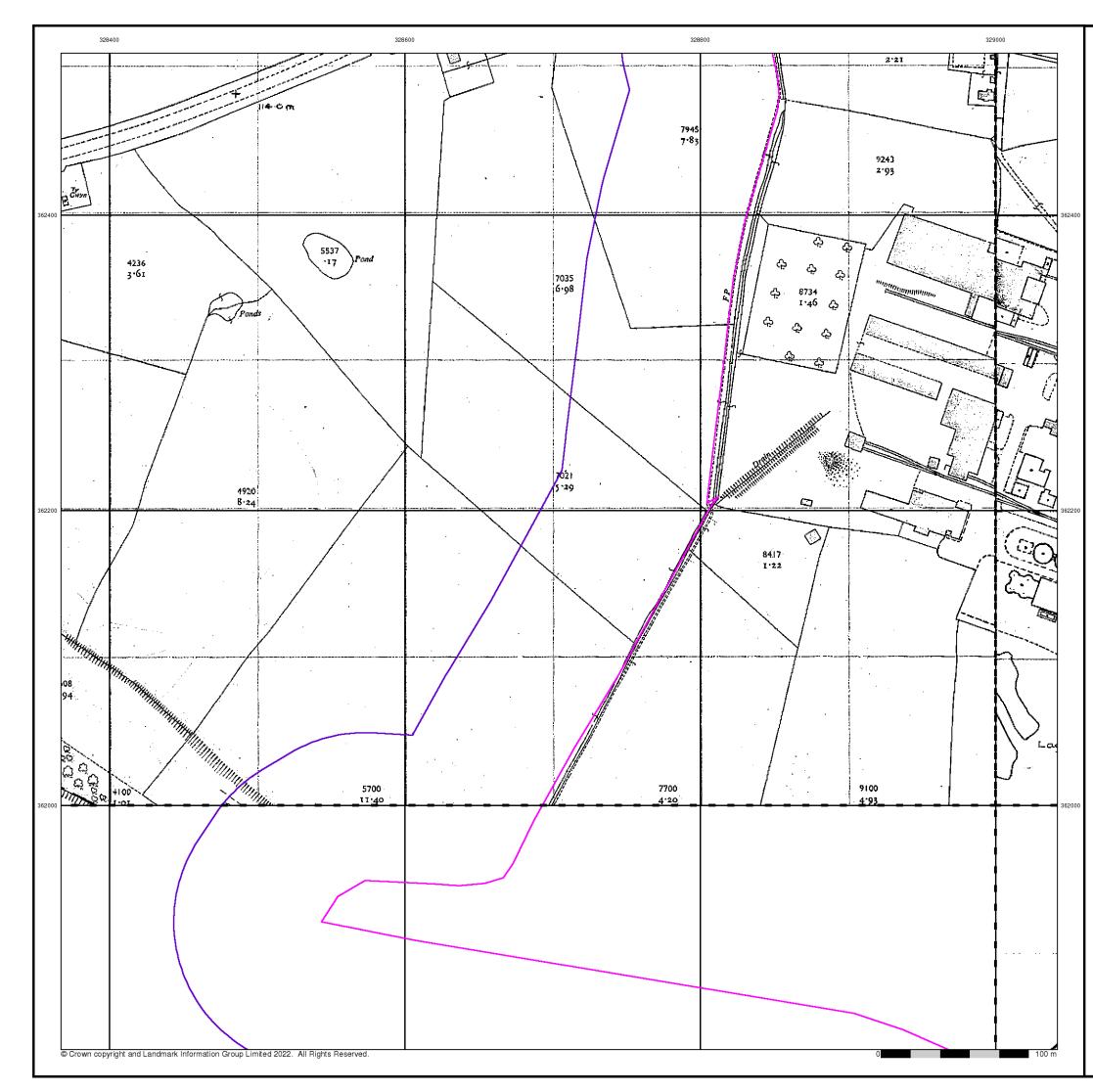
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:



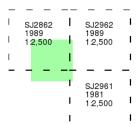


Additional SIMs Published 1981 - 1989

Source map scale - 1:2,500

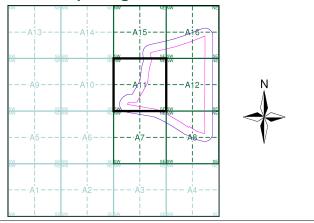
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



Historical Map - Segment A11

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Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

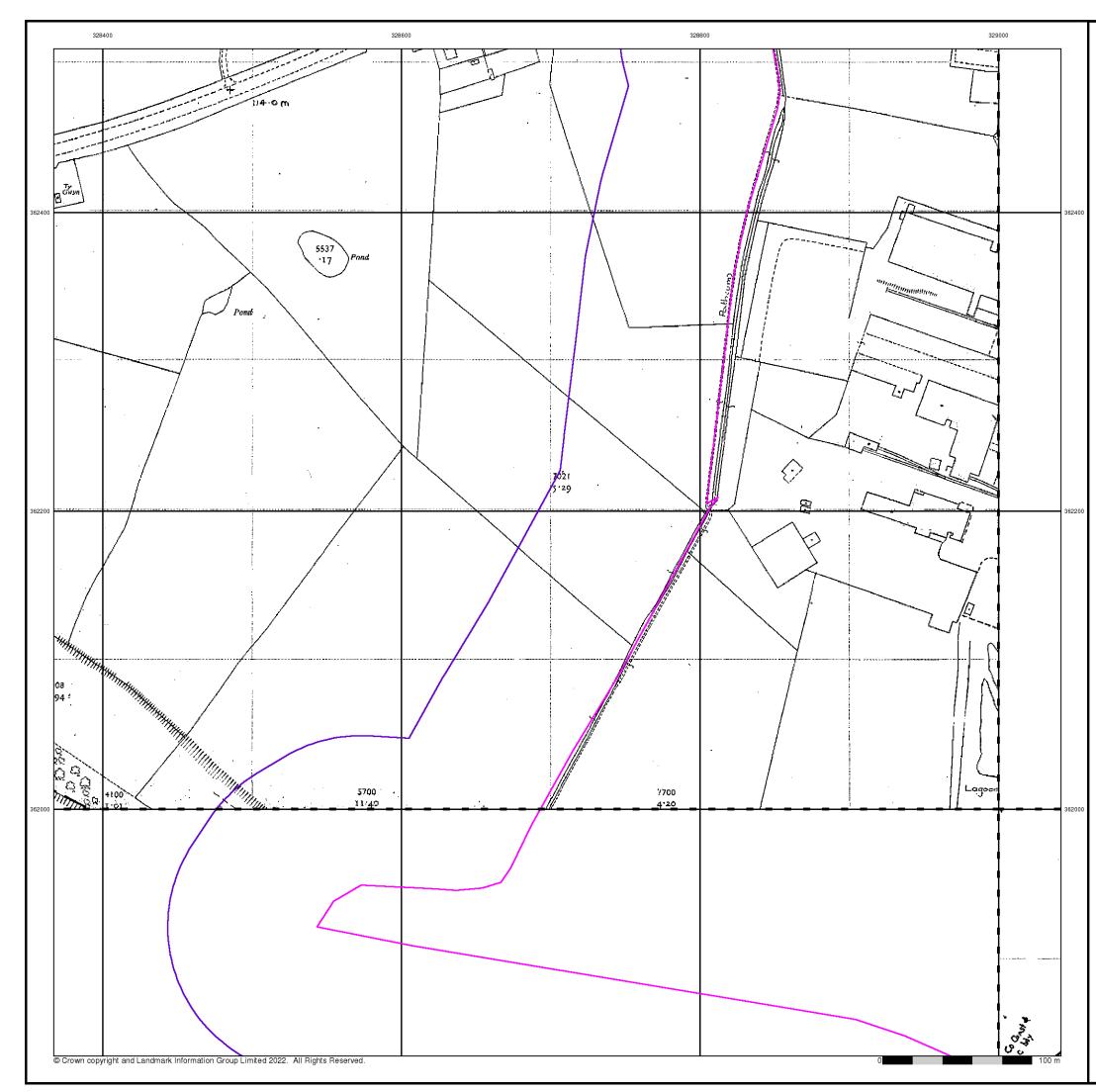
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:

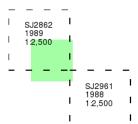




Additional SIMs Published 1988 - 1989 Source map scale - 1:2,500

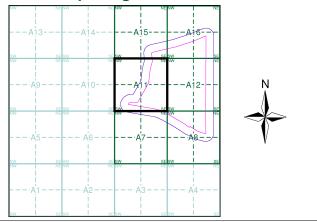
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



Historical Map - Segment A11

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Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

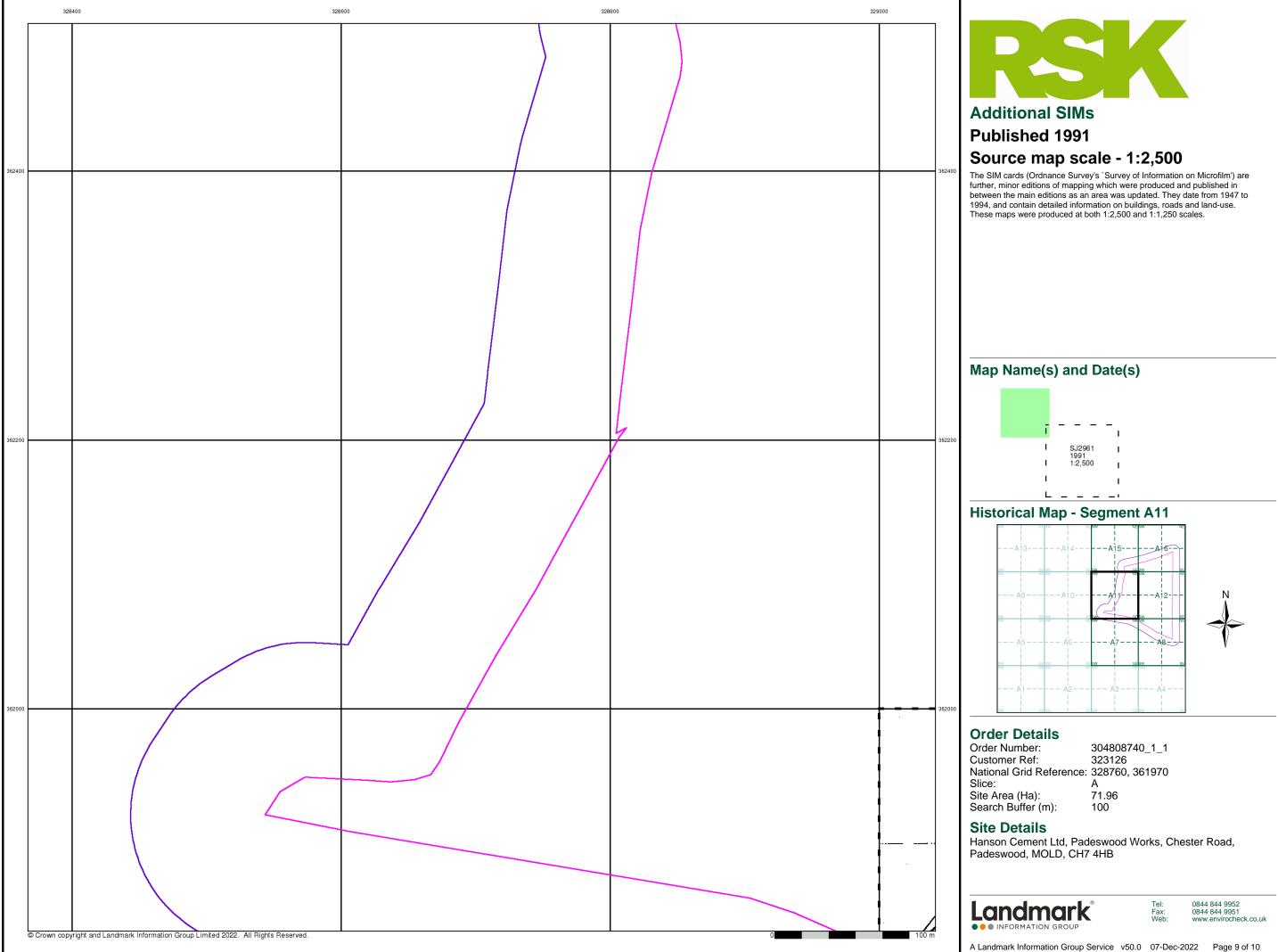
304808740_1_1 323126 А 71.96 100

Site Details

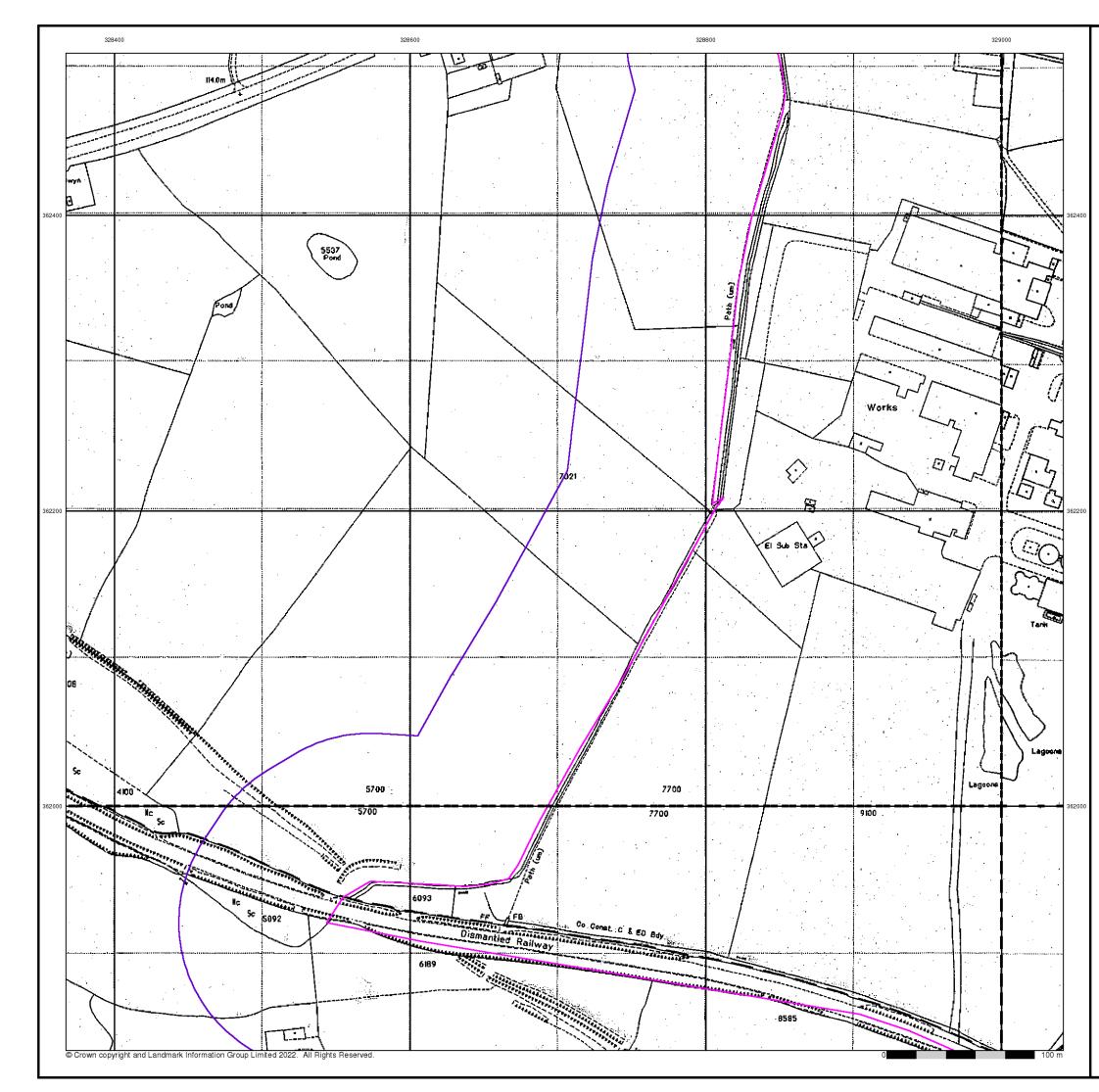
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Large-Scale National Grid Data

Published 1993

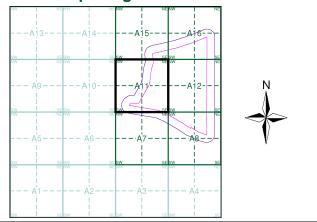
Source map scale - 1:2,500

'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)

—	_	_		_	_	_
T		2862	I.	SJ2		I
T	199 1: <mark>2</mark>	93 500	1	199 1:2,5		I
I.			1			I
_	_	_		_	_	_
	- SJ2	- 2861		SJ2	961	_ _
 	199		1	SJ2 199 1:2,5	3	-
 	199	93	1	199	3	- - - -

Historical Map - Segment A11



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

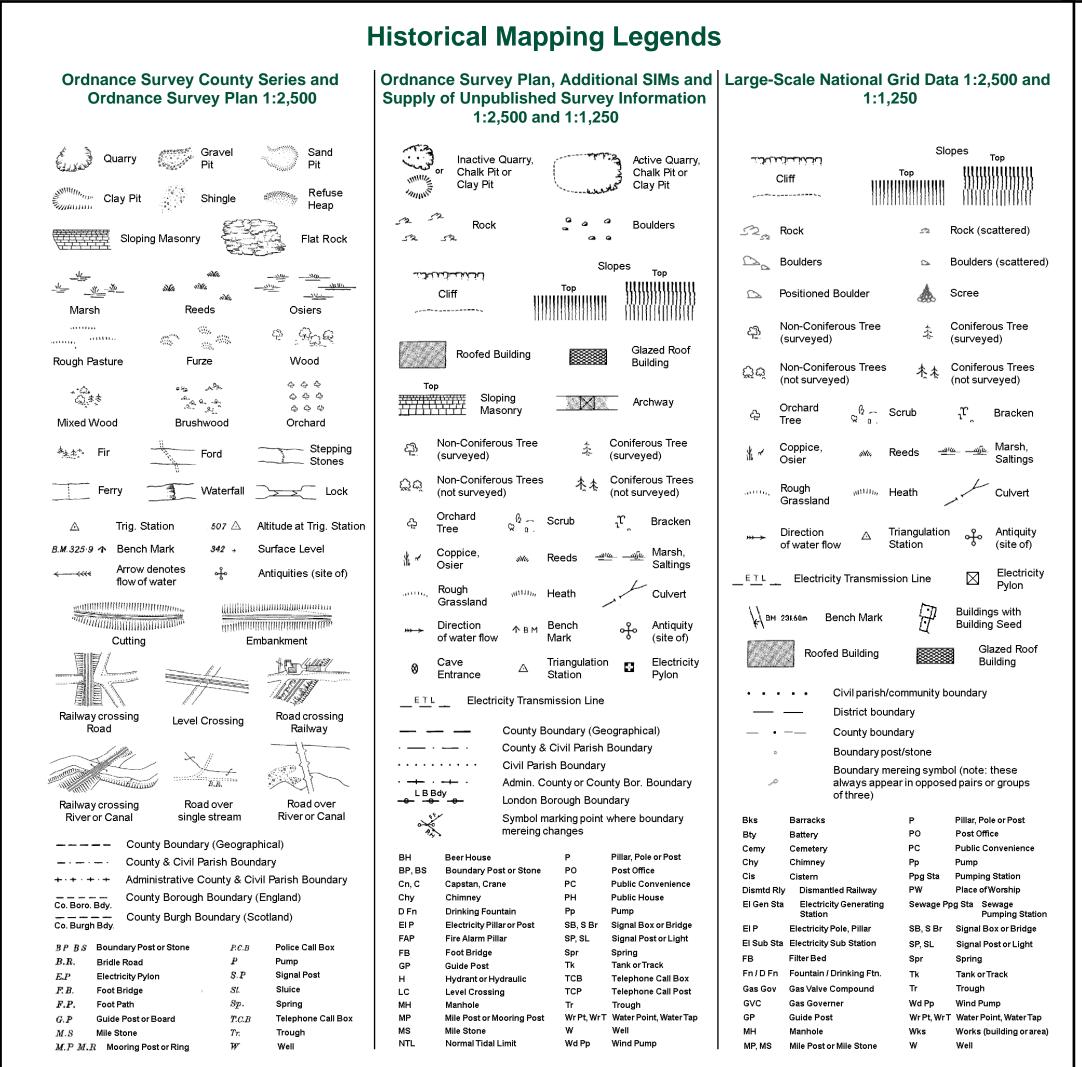
304808740_1_1 323126 А 71.96 100

Site Details

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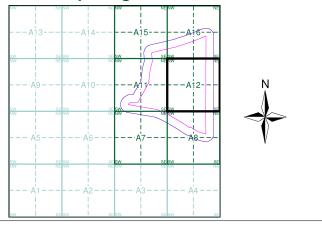
Tel: Fax: Web:



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 - 1979	6
Additional SIMs	1:2,500	1981 - 1989	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 A12



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

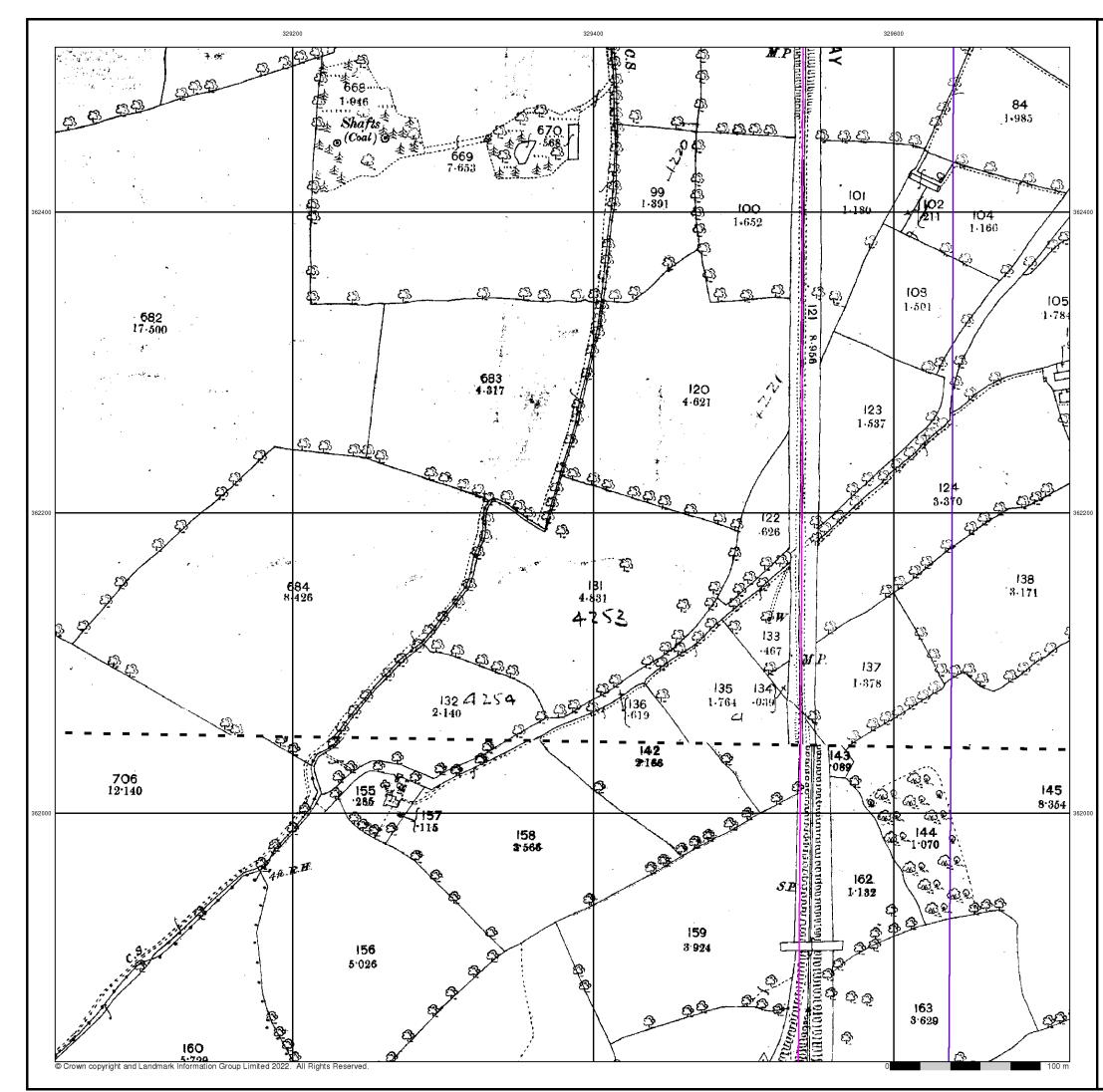
304808740_1_1 323126 Α 71.96 100

Site Details

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Tel Fax: Web

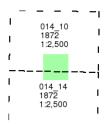




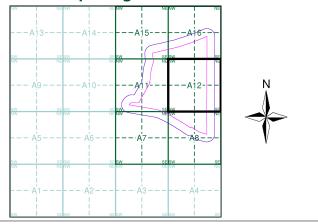
Published 1872 Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

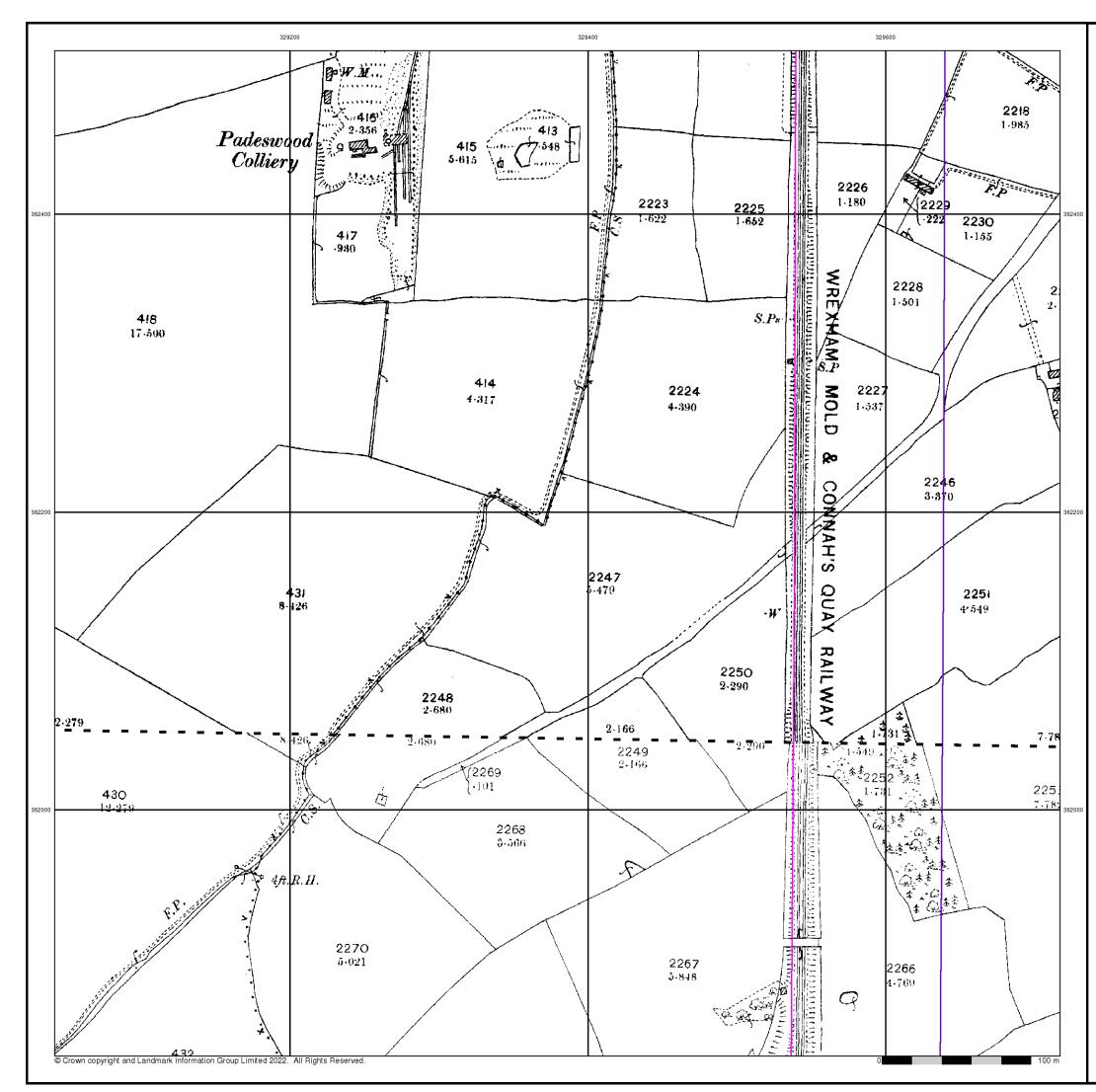
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:

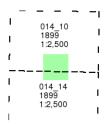




Published 1899 Source map scale - 1:2,500

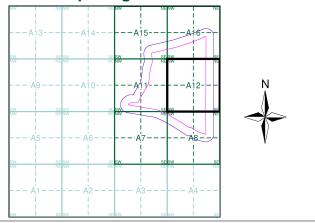
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)



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Historical Map - Segment A12



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

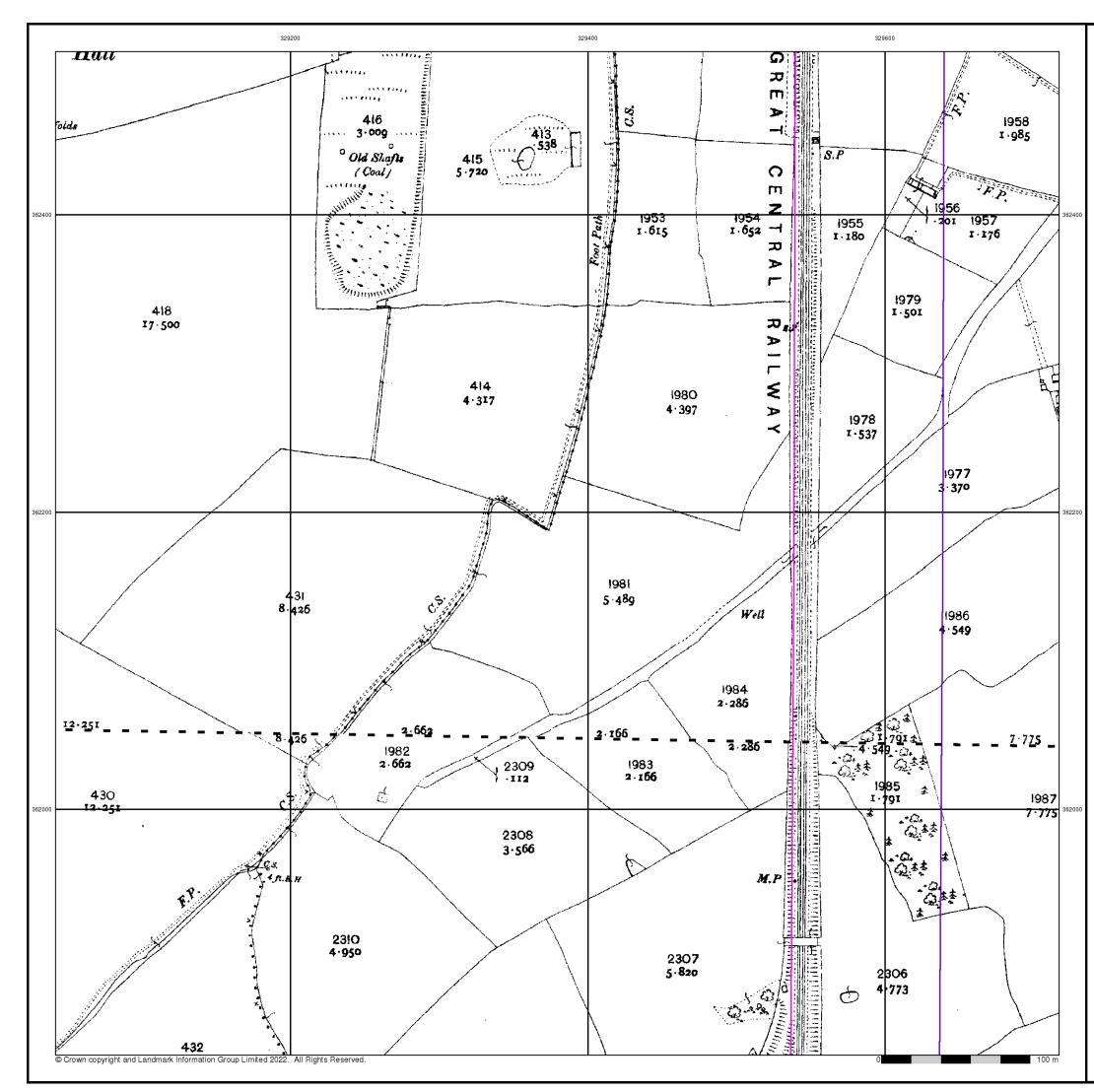
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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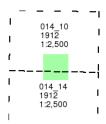




Published 1912 Source map scale - 1:2,500

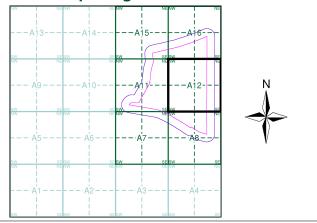
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)



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Historical Map - Segment A12



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

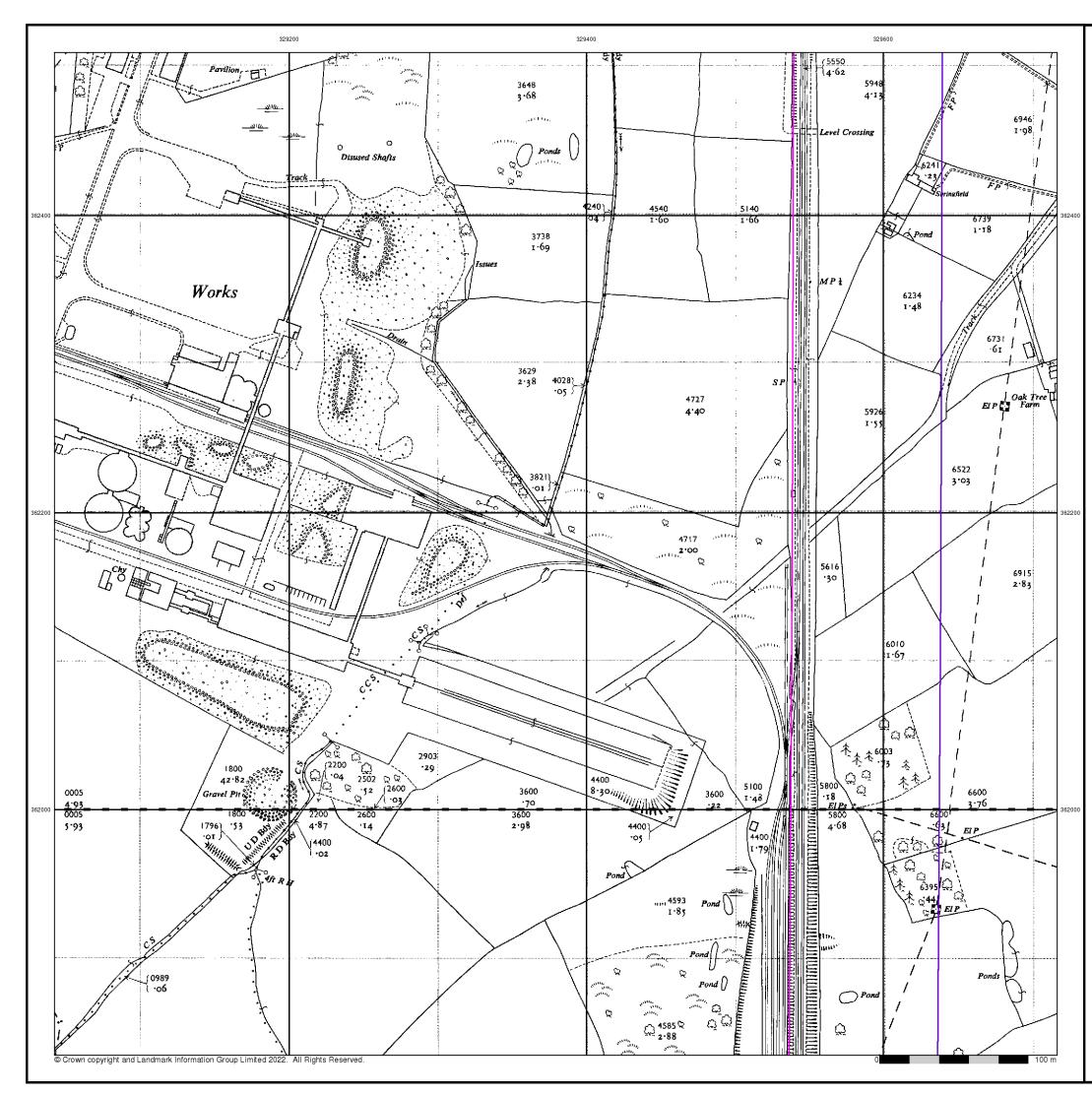
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:



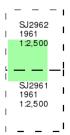


Published 1961

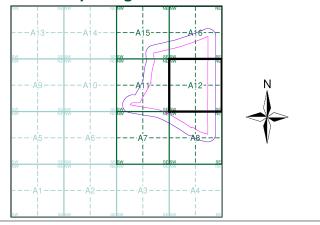
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

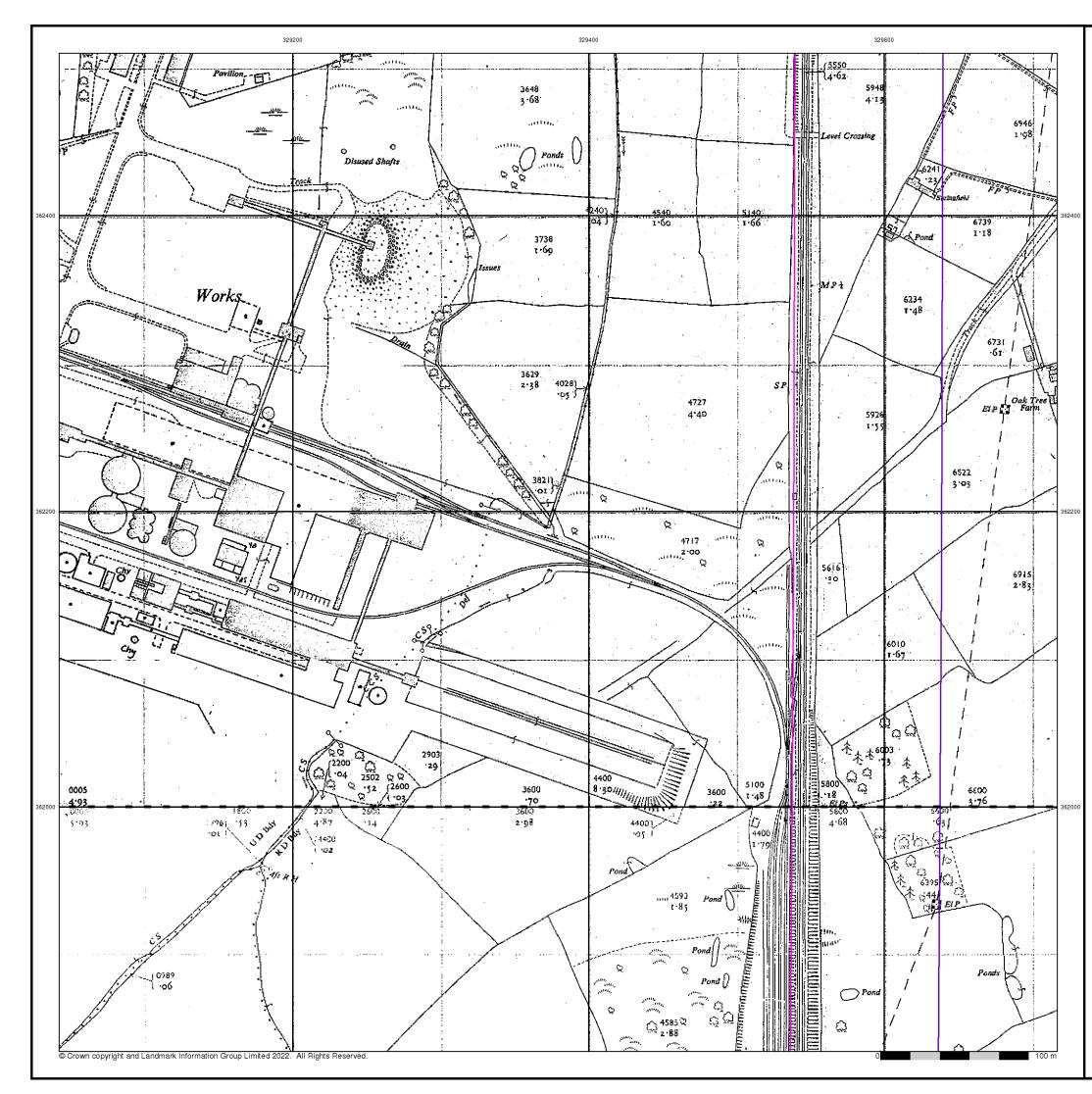
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:



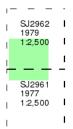


Additional SIMs Published 1977 - 1979

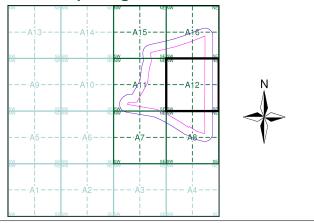
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

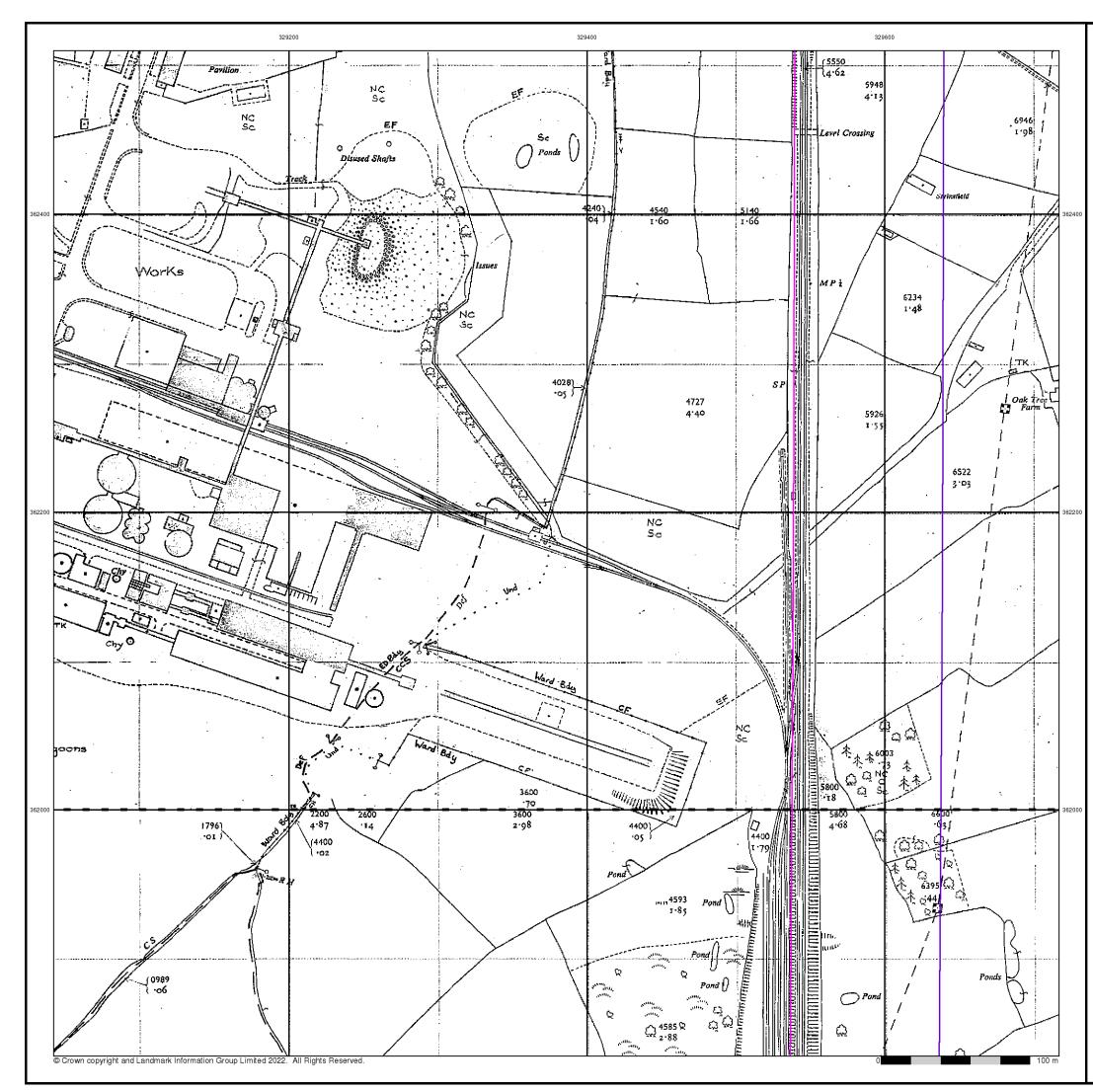
304808740_1_1 323126 А 71.96 100

Site Details

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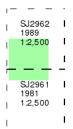


Additional SIMs Published 1981 - 1989

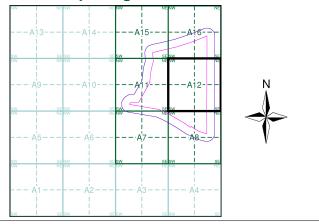
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

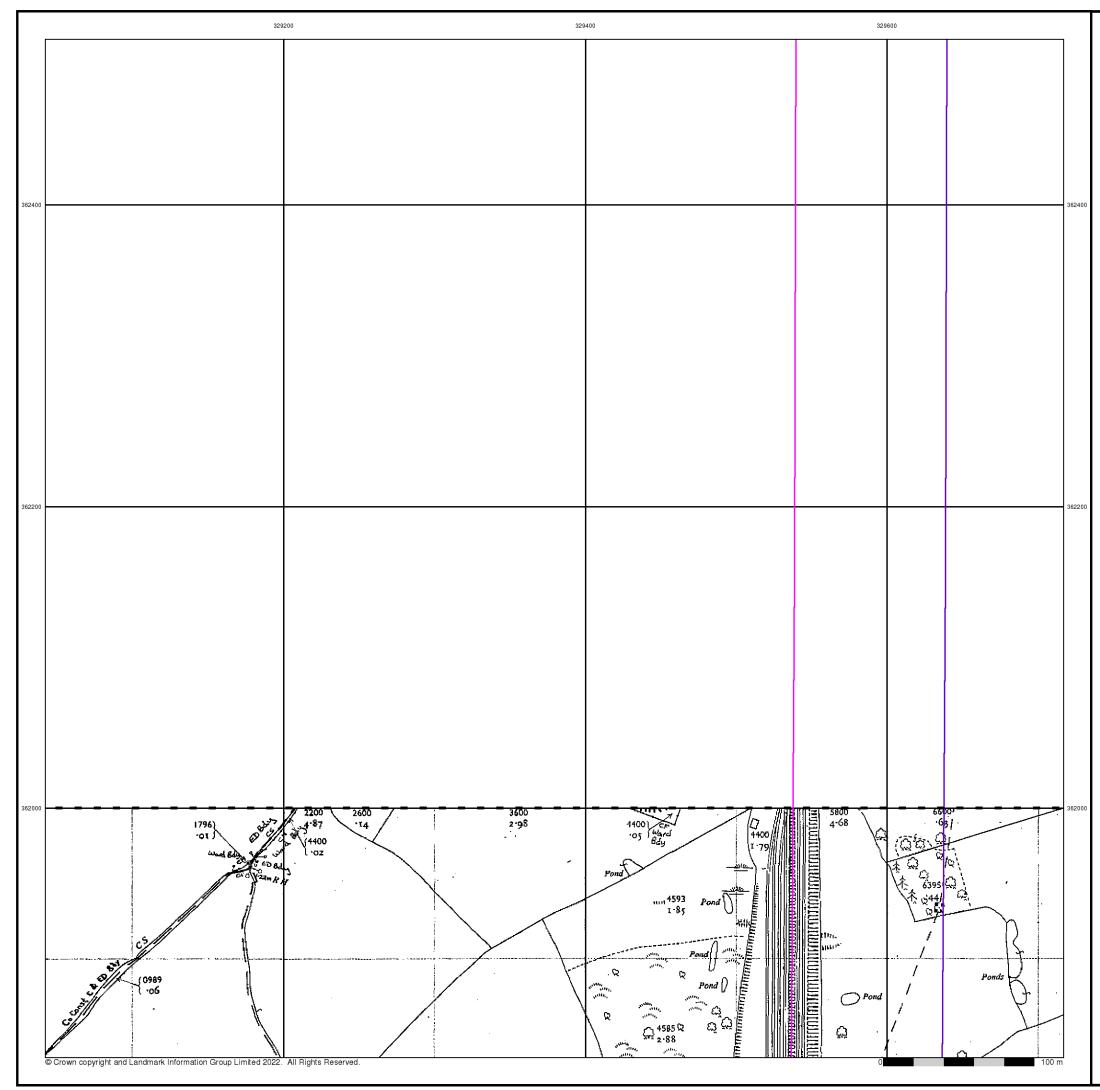
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





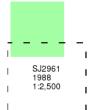
Additional SIMs

Published 1988

Source map scale - 1:2,500

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

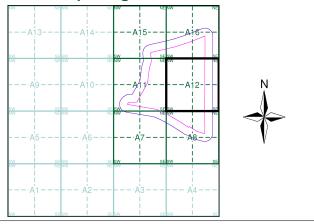
Map Name(s) and Date(s)



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Historical Map - Segment A12

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Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

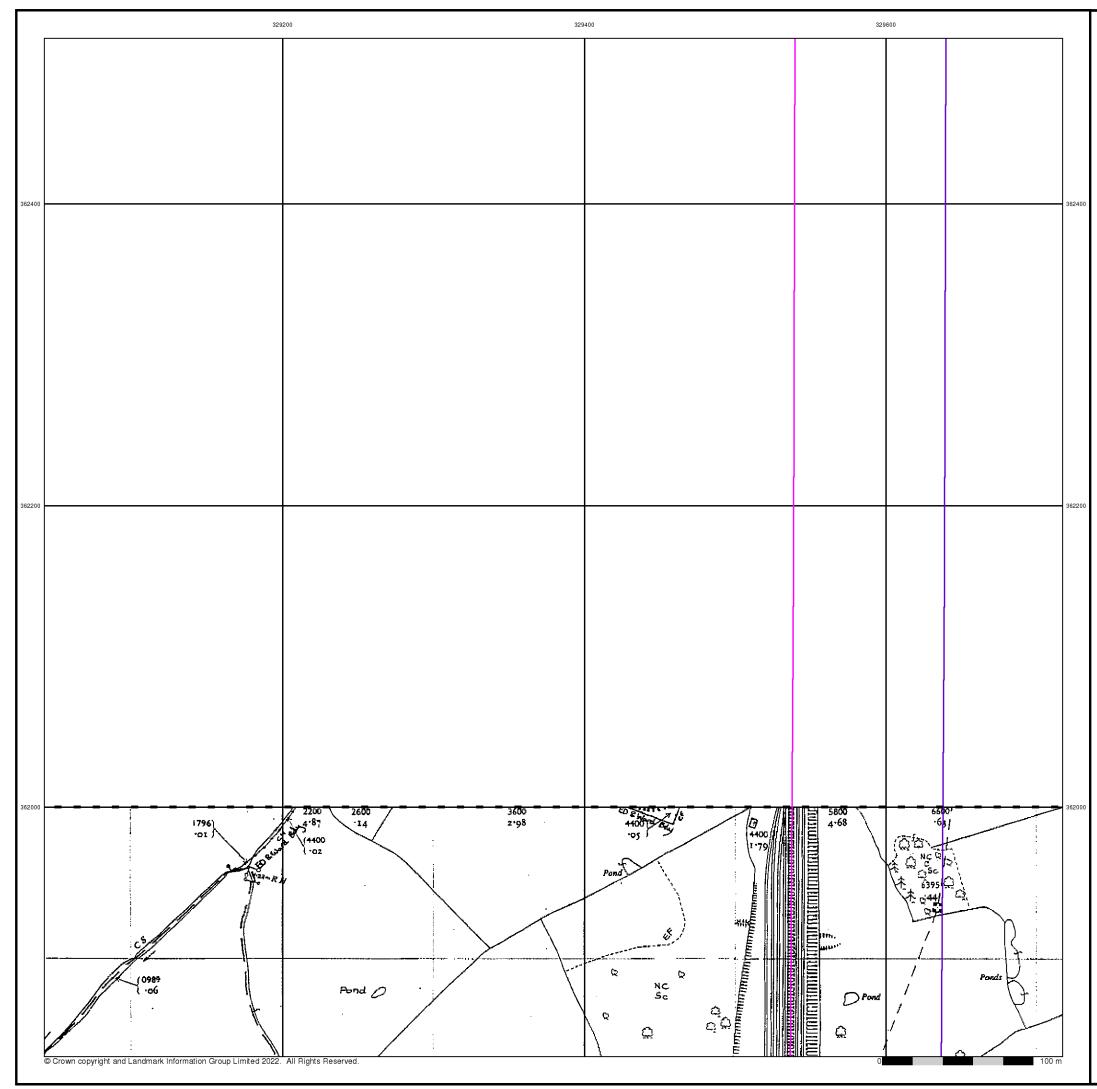
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





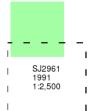
Additional SIMs

Published 1991

Source map scale - 1:2,500

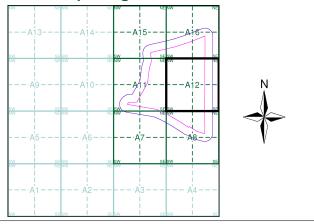
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



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Historical Map - Segment A12



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

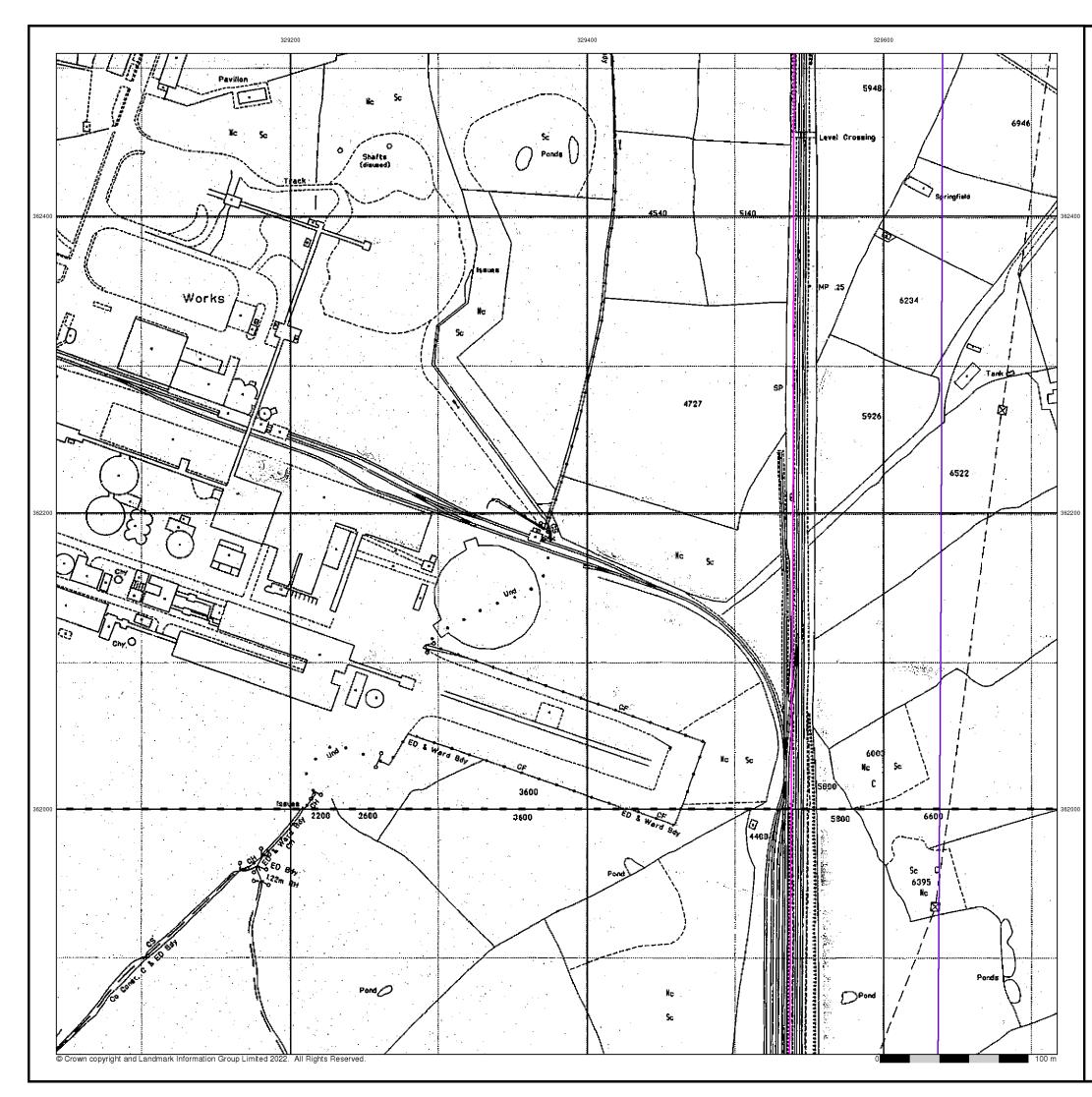
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





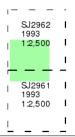
Large-Scale National Grid Data

Published 1993

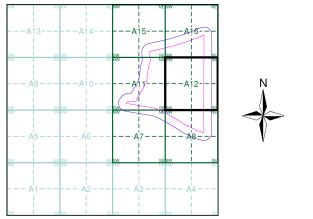
Source map scale - 1:2,500

'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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

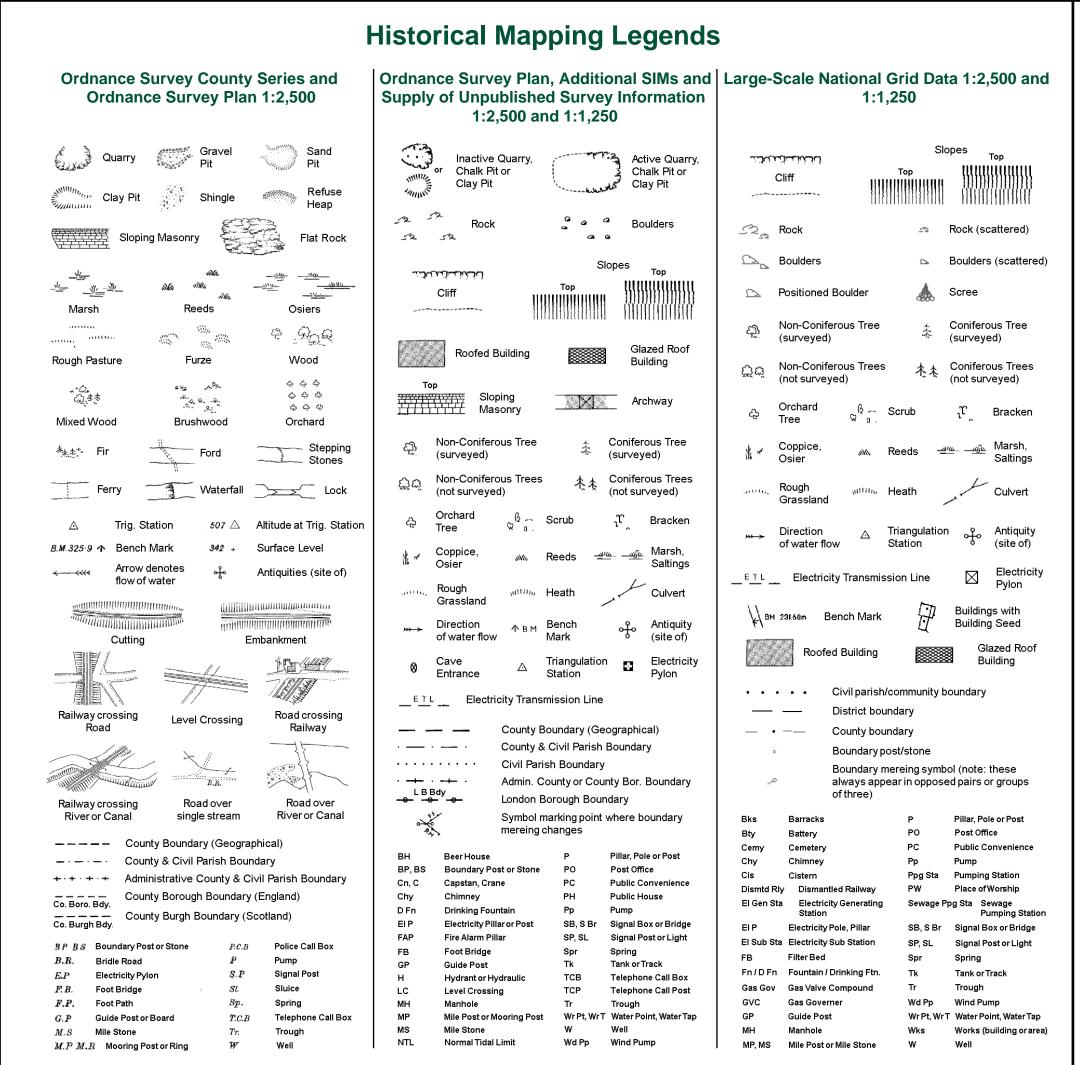
304808740_1_1 323126 А 71.96 100

Site Details

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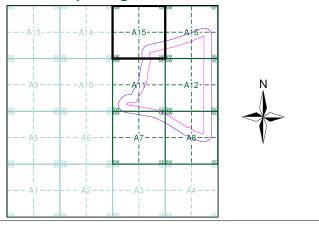
Tel: Fax: Web:



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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

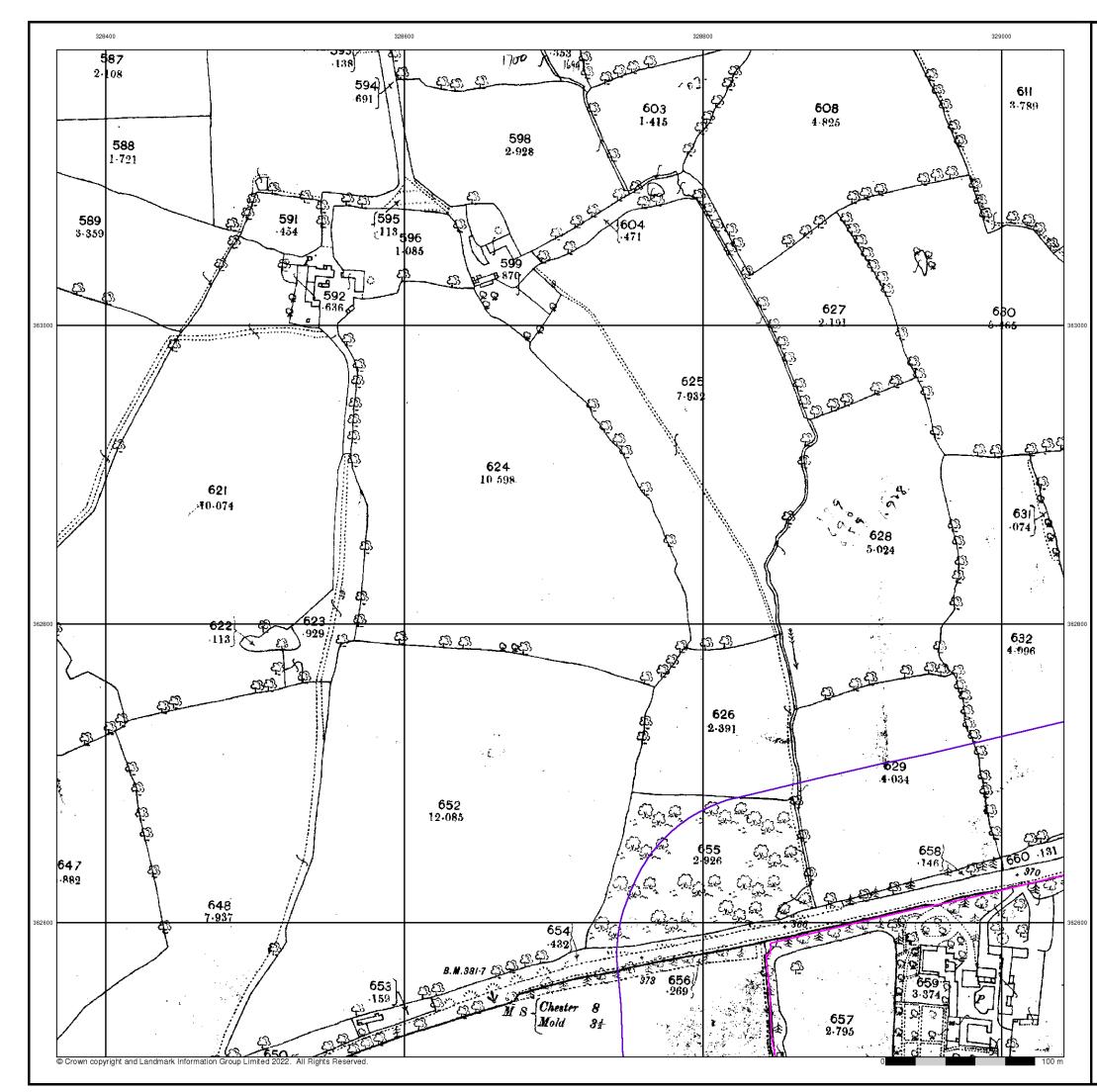
304808740_1_1 323126 Α 71.96 100

Site Details

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Tel Fax: Web

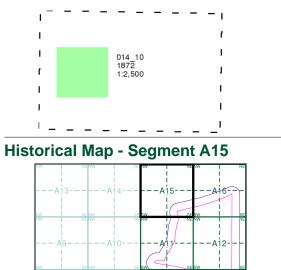




Published 1872 Source map scale - 1:2,500

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)





Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

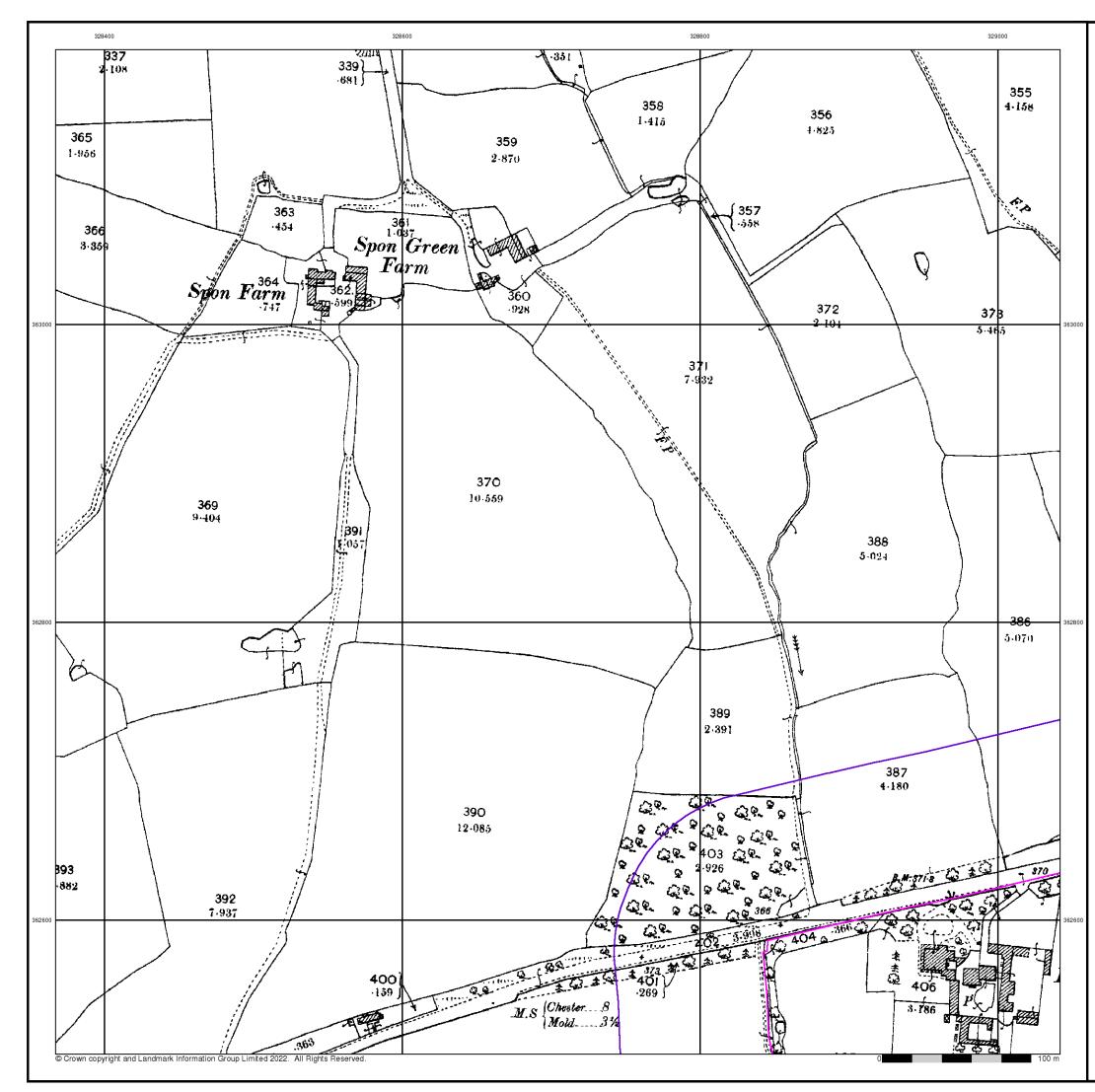
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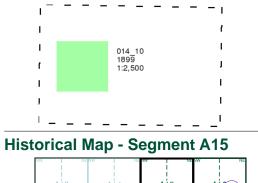


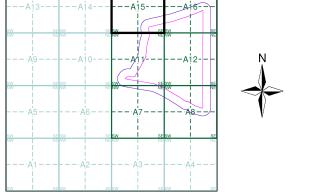


Published 1899 Source map scale - 1:2,500

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)





Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

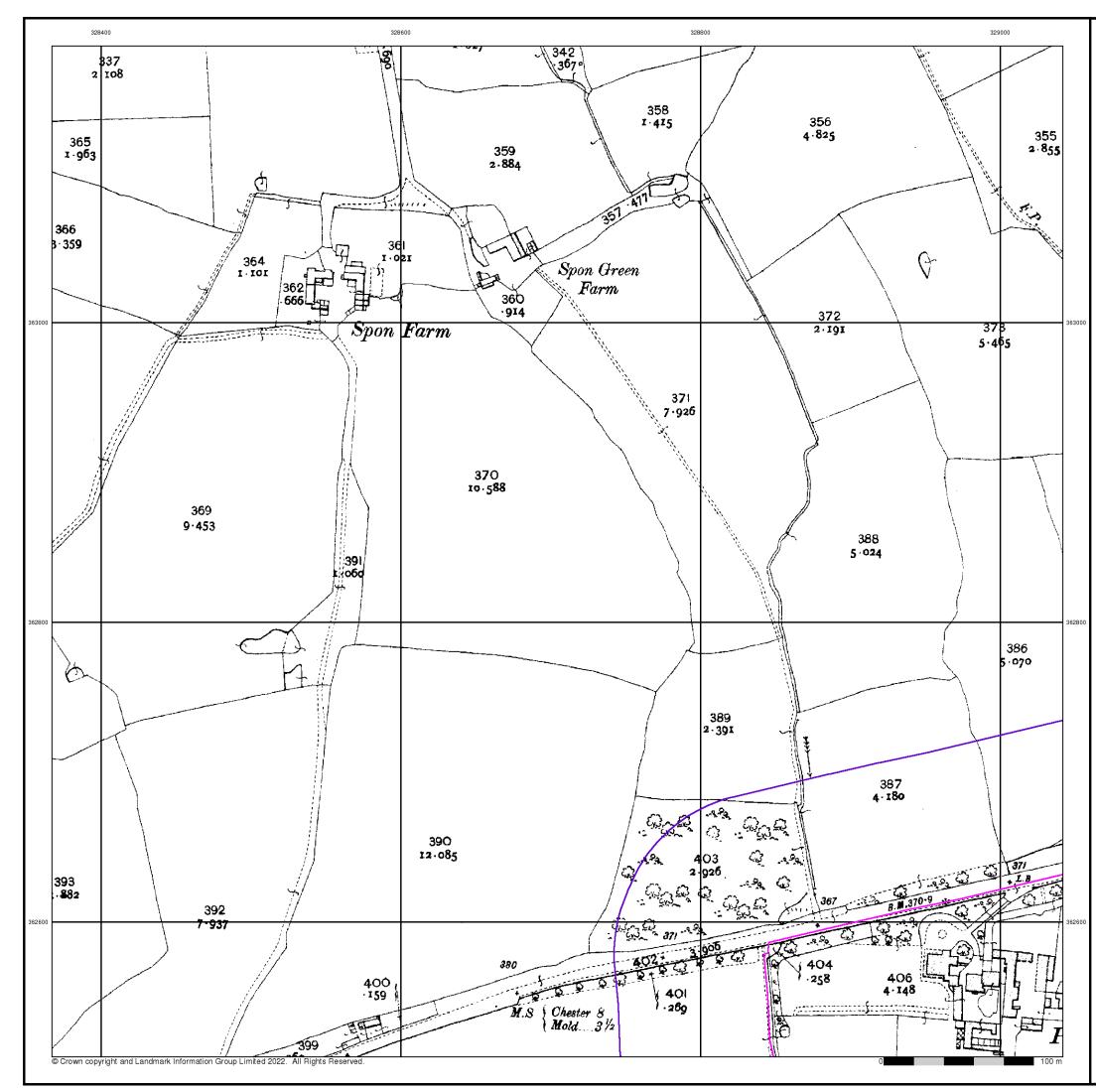
Site Details

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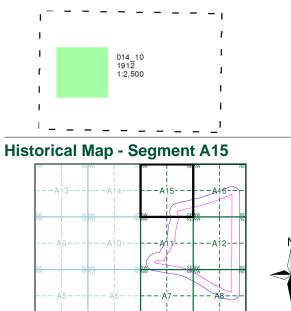




Published 1912 Source map scale - 1:2,500

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)



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

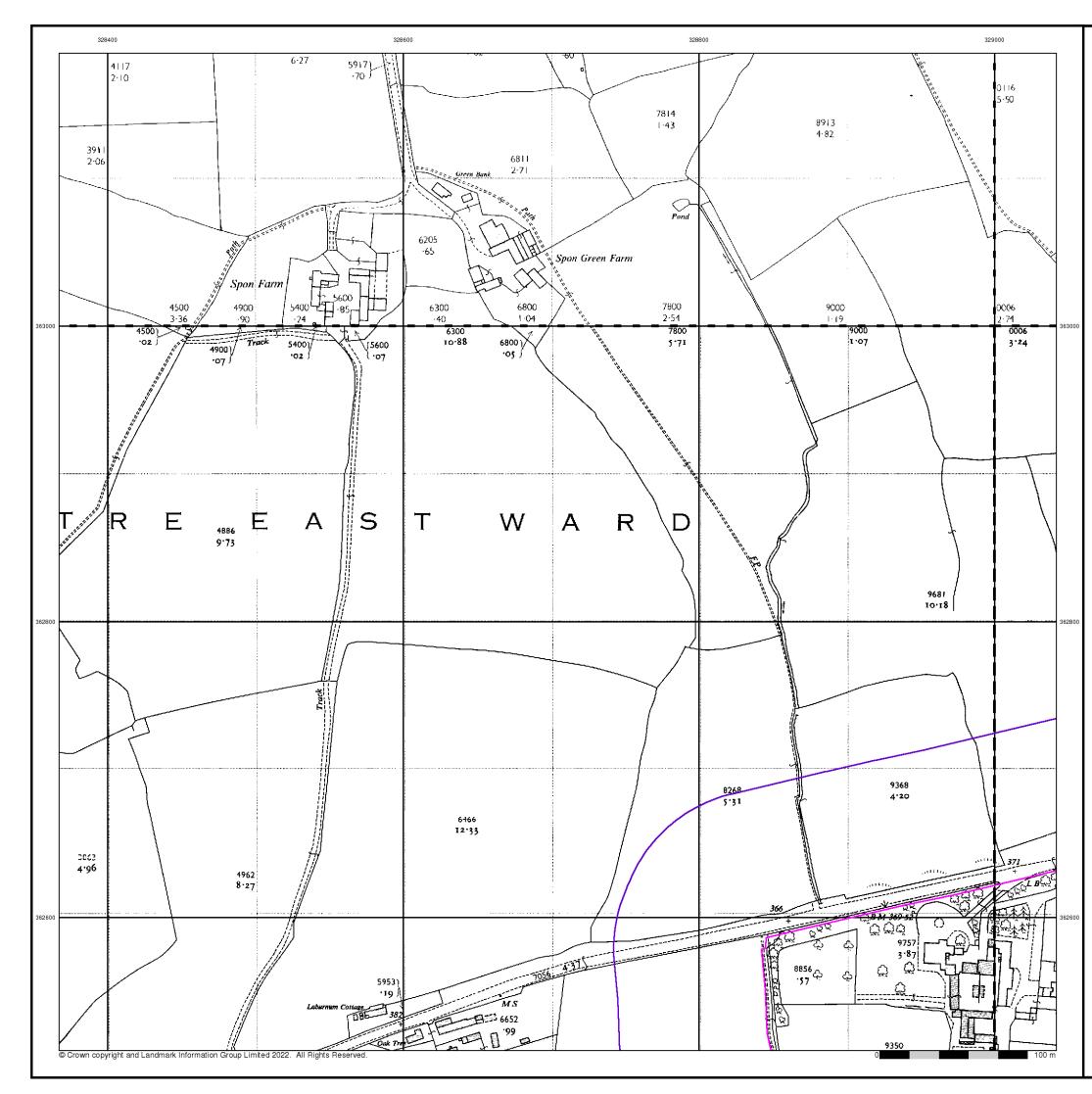
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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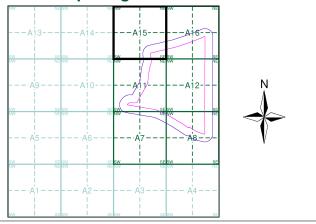
Published 1961 - 1965 Source map scale - 1:2,500

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 A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 Α 71.96 100

Site Details

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Tel: Fax: Web:





Published 1969

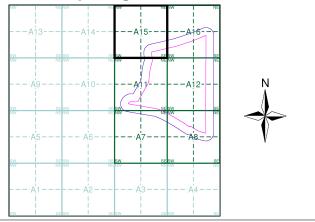
Source map scale - 1:2,500

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)

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Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

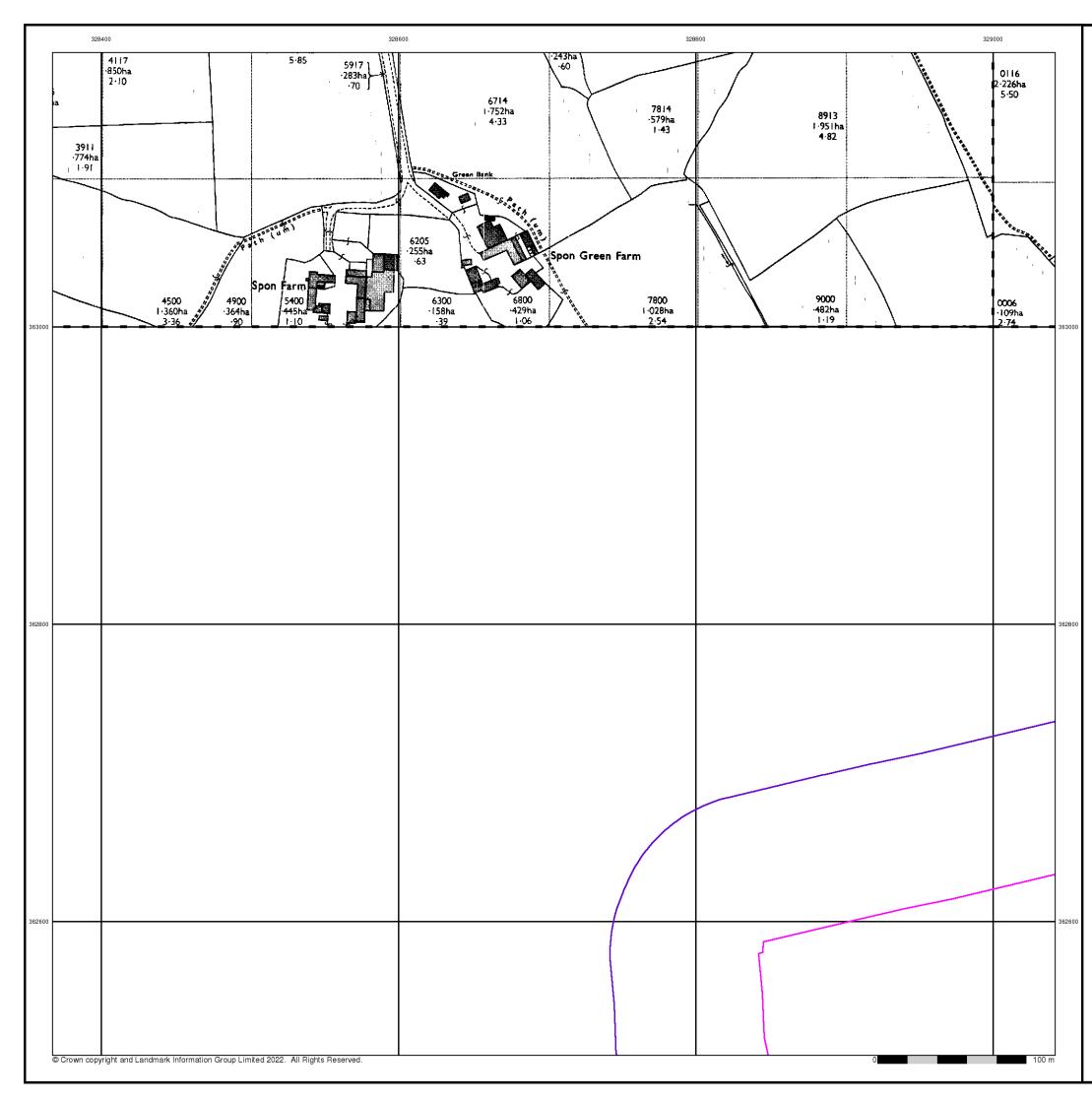
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





Published 1975

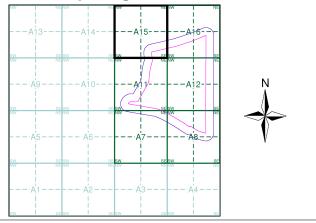
Source map scale - 1:2,500

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)

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Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

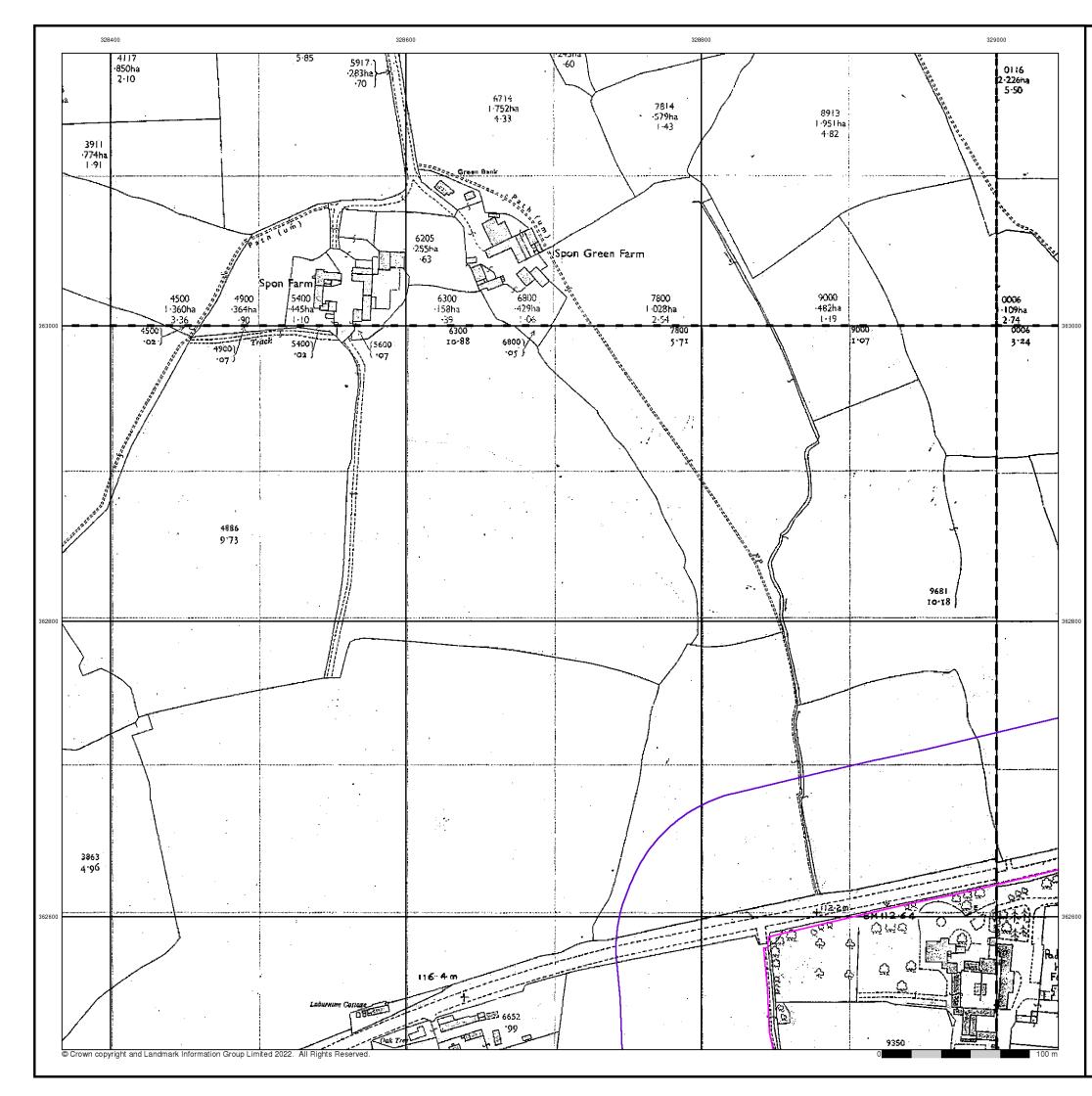
304808740_1_1 323126 А 71.96 100

Site Details

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Additional SIMs Published 1977 - 1989

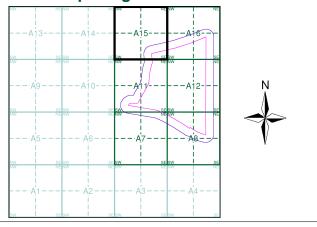
Source map scale - 1:2,500

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)

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T	SJ2863	I.	SJ2963	Т
I	1977 1:2,500	Т	1989 1:2,500	I
I.	_	- 1		Т
-				—
- I	 SJ2862		 SJ2962	-
 	SJ2862 1979 1:2,500	 	SJ2962 1979 1:2,500	- 1 1

Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

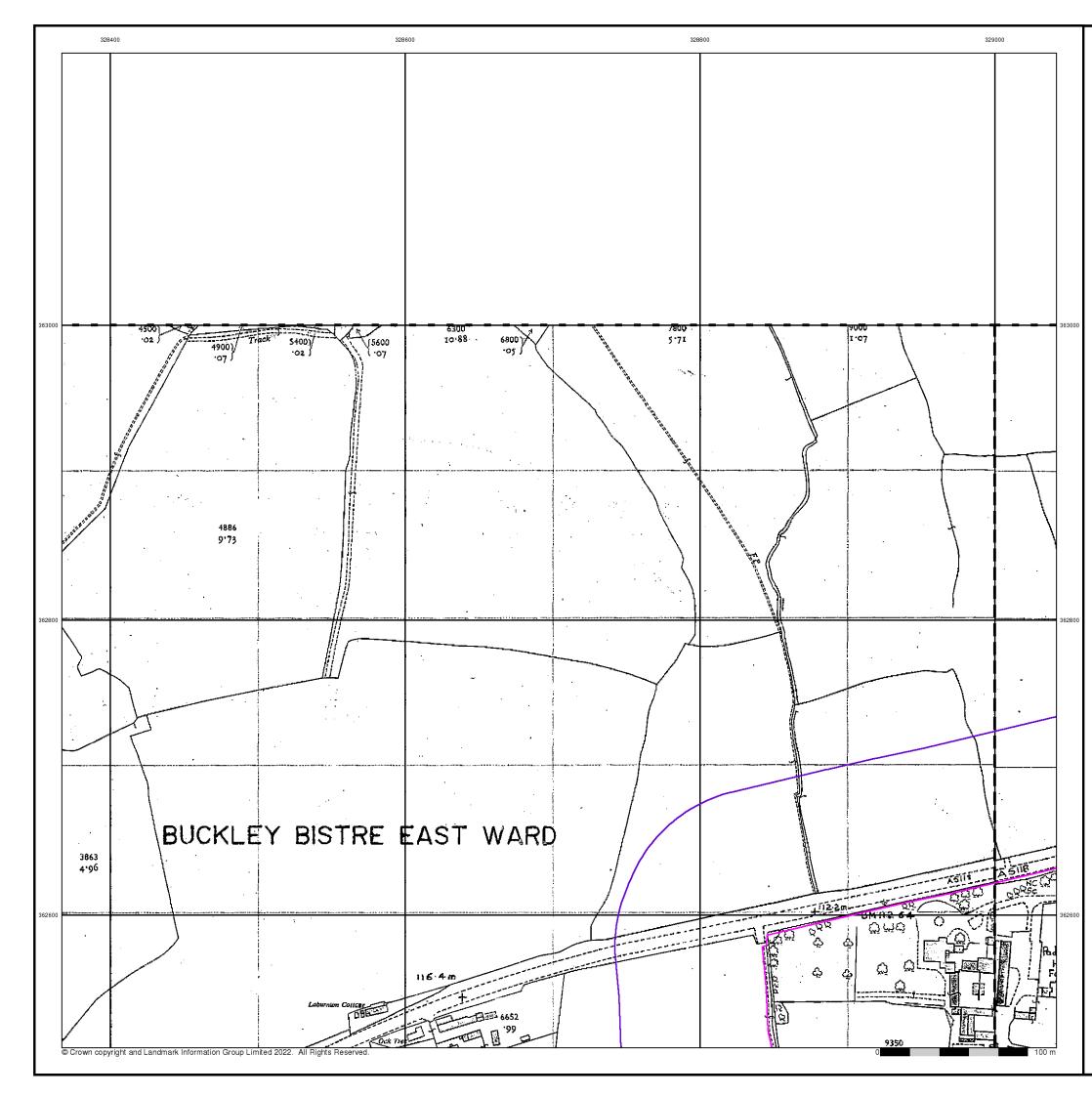
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





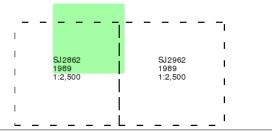
Additional SIMs

Published 1989

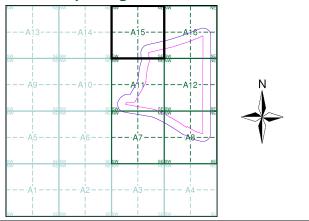
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

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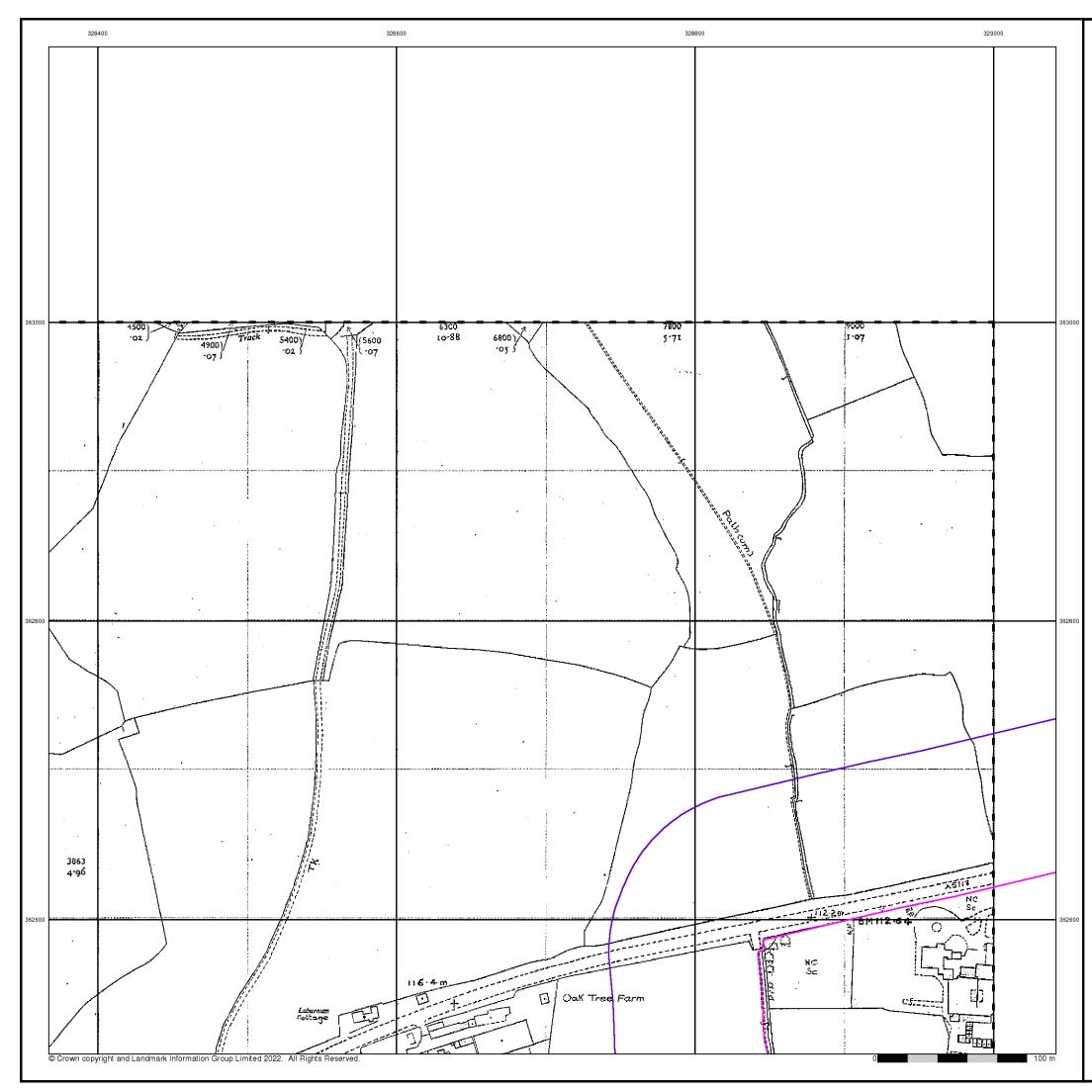
304808740_1_1 323126 А 71.96 100

Site Details

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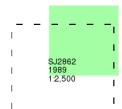
Additional SIMs

Published 1989

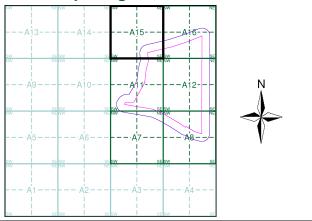
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

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Ordnance Survey Plan

Published 1991

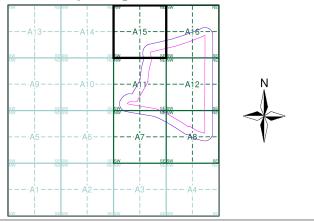
Source map scale - 1:2,500

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)

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I	SJ2863	Ι	SJ2963	I
1	1991 1:2,500	I	1991 1:2,500	I
I				I
'_		_I		_'

Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:





Large-Scale National Grid Data

Published 1993

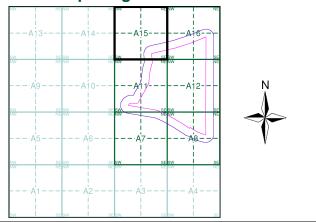
Source map scale - 1:2,500

'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)

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_	_	_		_	_	_
ī		2862	ī	SJ2		_,
 	199		1	SJ2 199 1:2,5	3	-
 	199	3		199	3	-

Historical Map - Segment A15



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

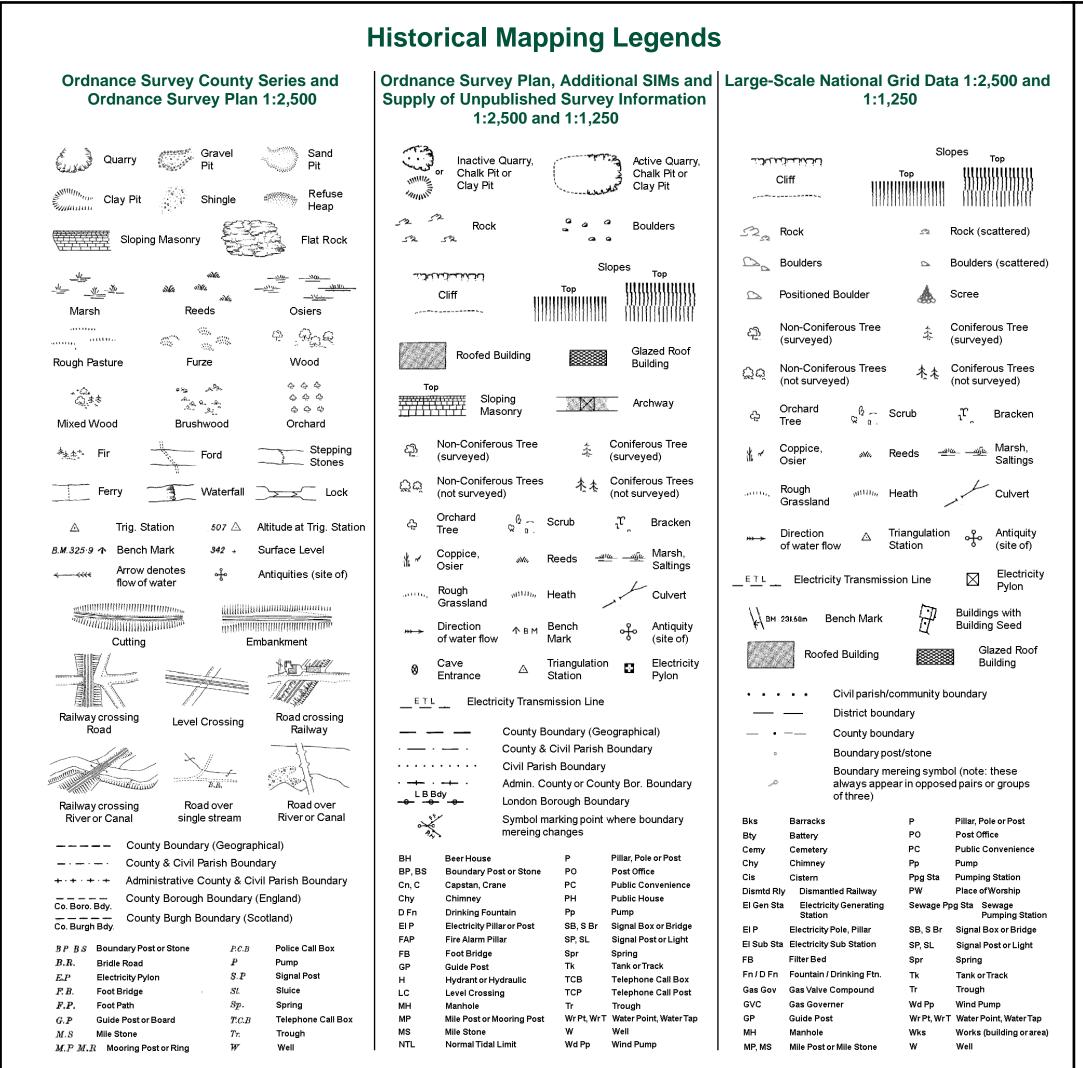
304808740_1_1 323126 А 71.96 100

Site Details

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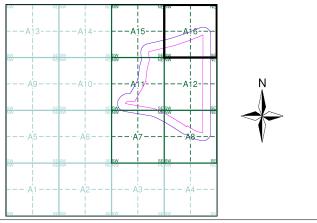
Tel: Fax: Web:



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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

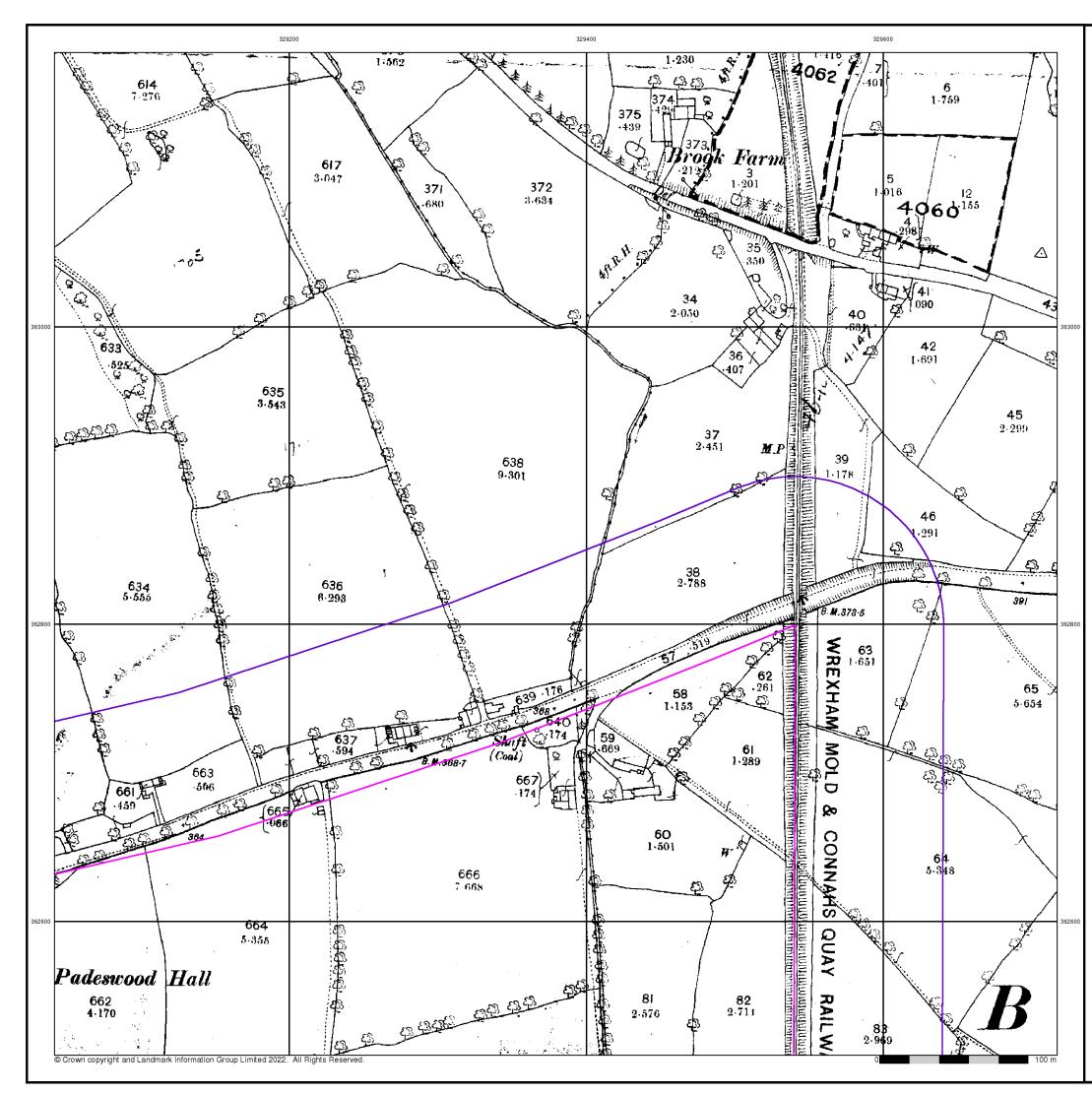
304808740_1_1 323126 Α 71.96 100

Site Details

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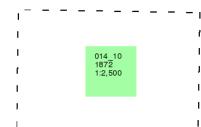




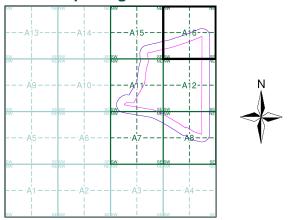
Published 1872 Source map scale - 1:2,500

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 A16



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

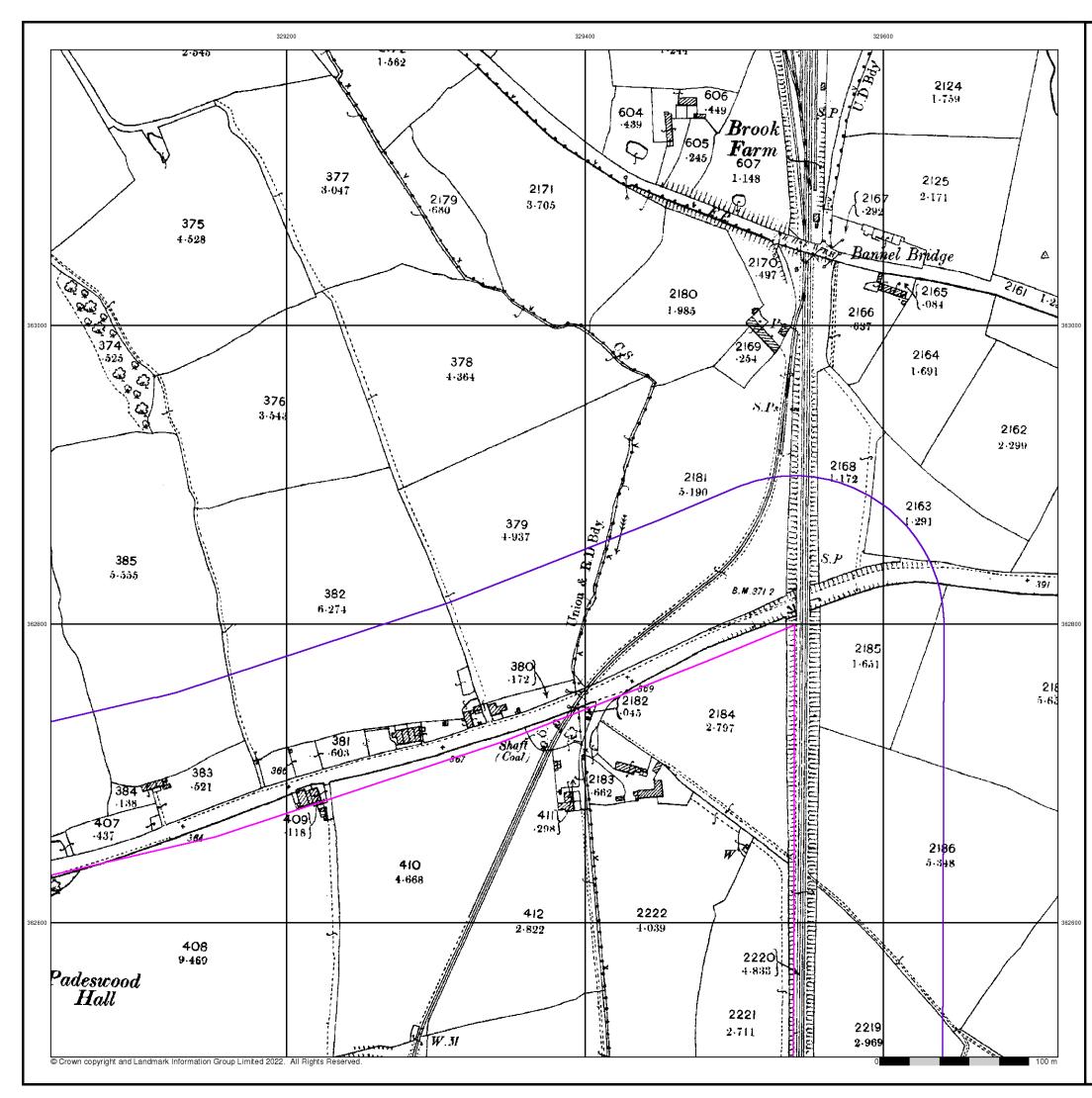
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:

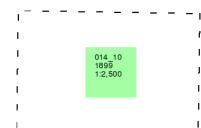




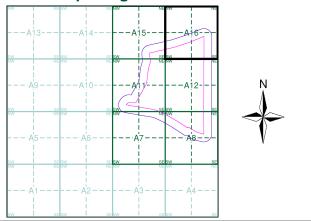
Published 1899 Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

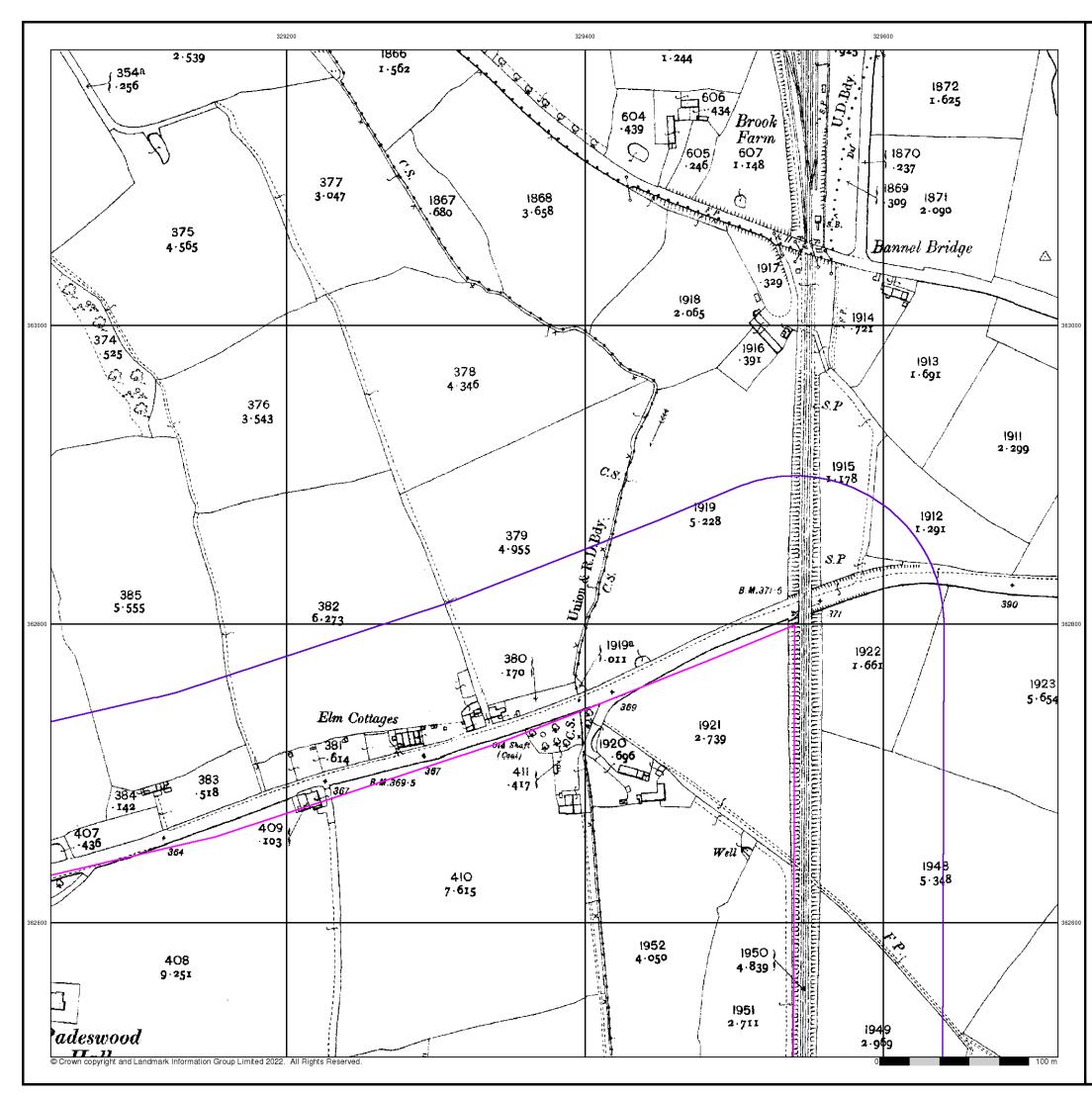
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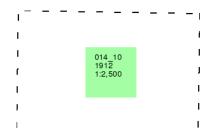




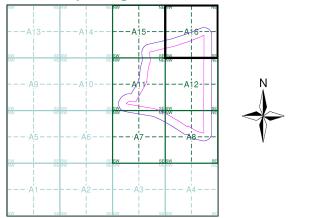
Published 1912 Source map scale - 1:2,500

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 A16



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

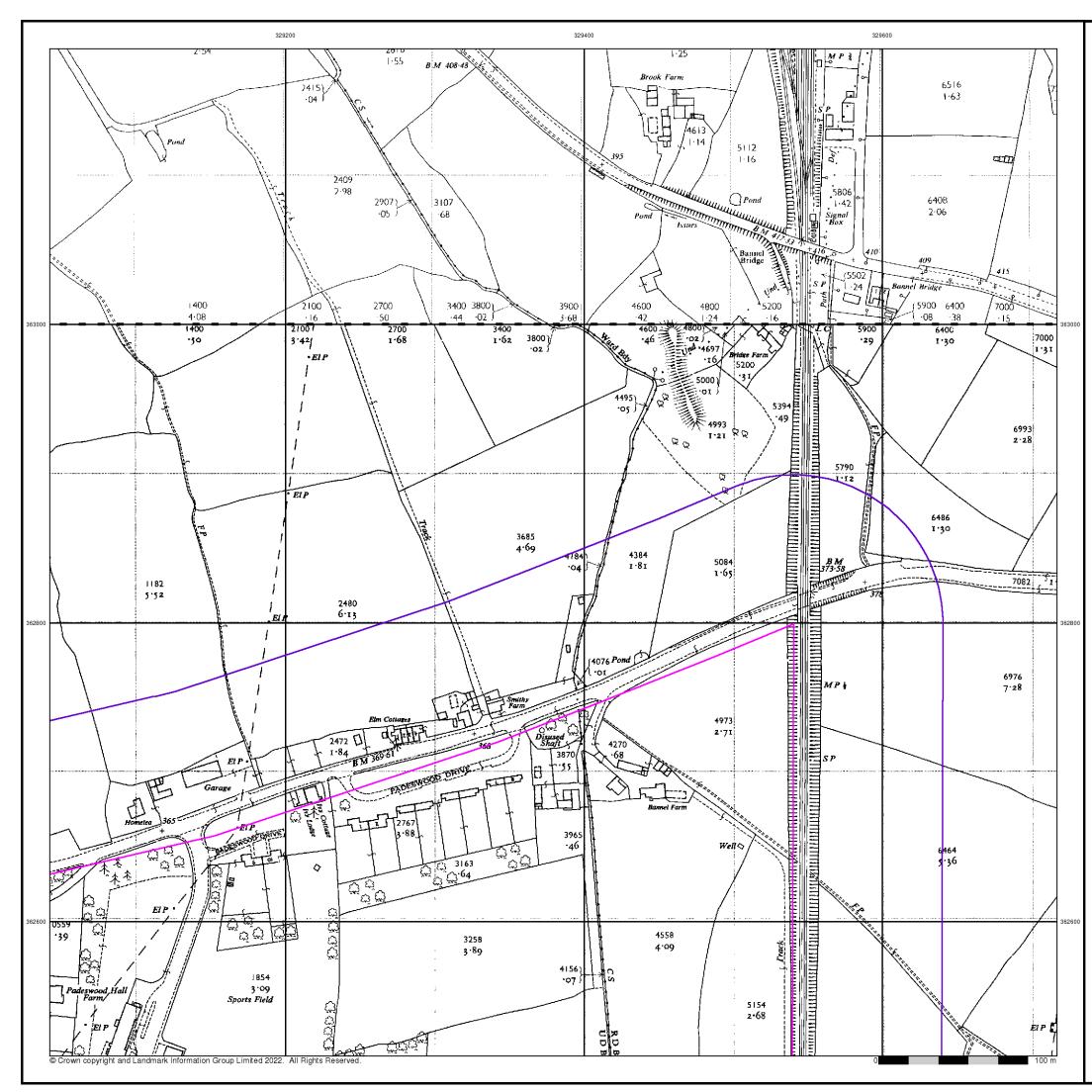
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:

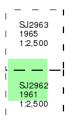




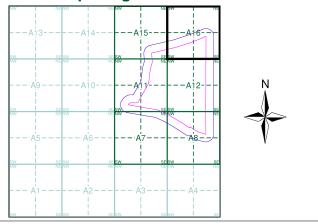
Ordnance Survey Plan Published 1961 - 1965 Source map scale - 1:2,500

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)



Historical Map - Segment A16



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

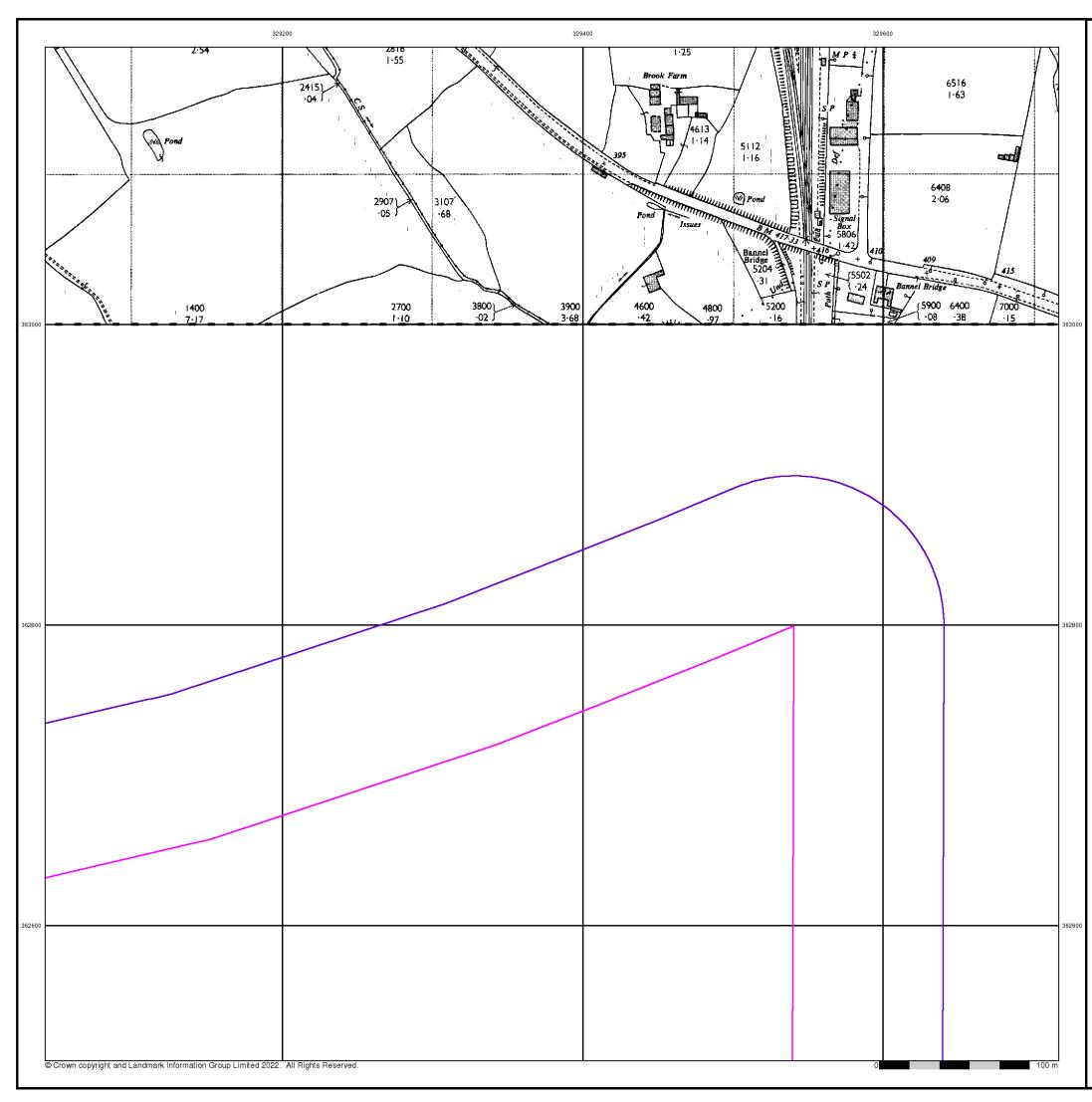
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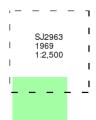


Published 1969

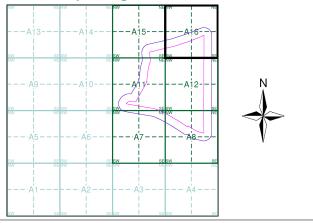
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

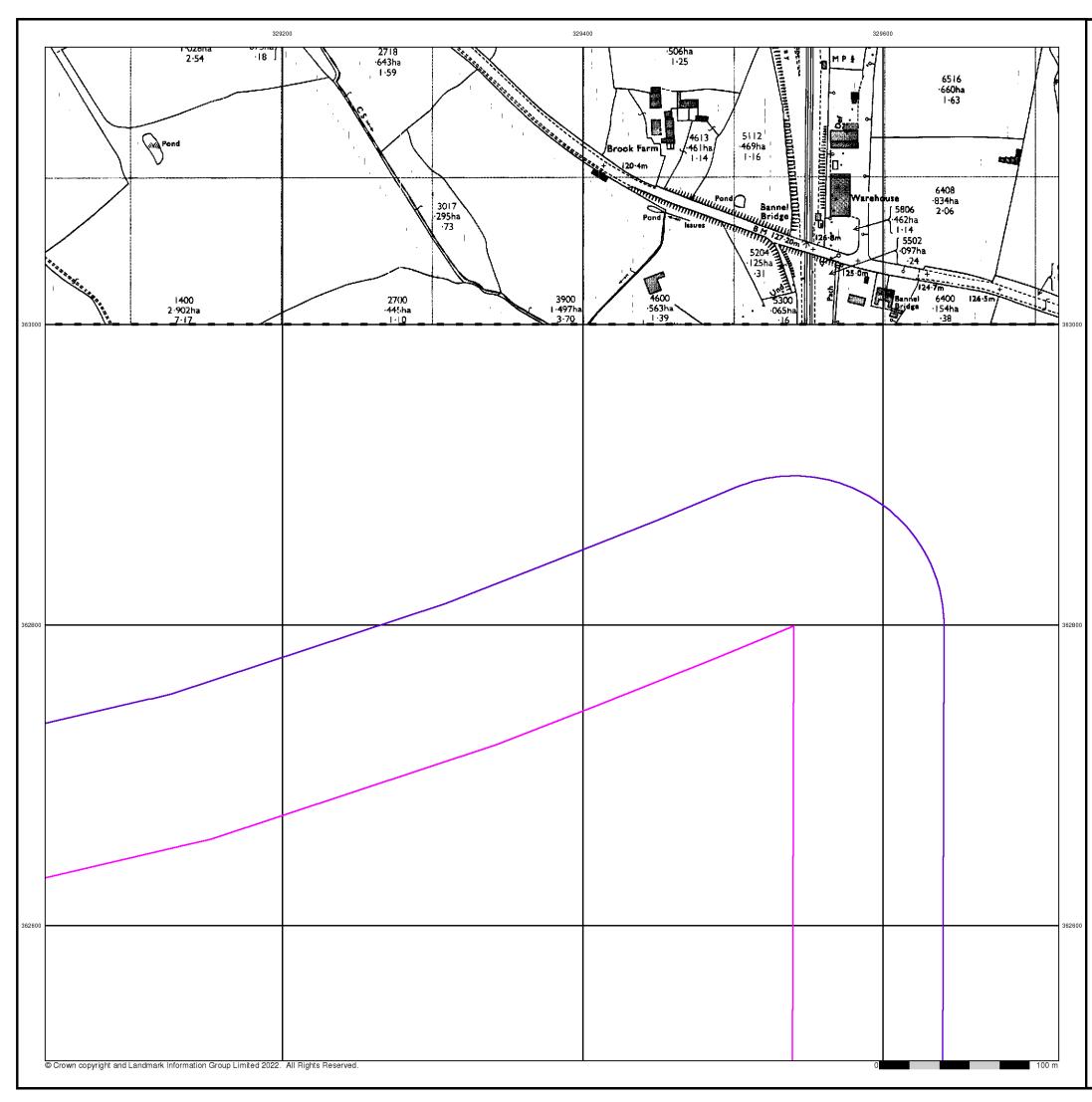
304808740_1_1 323126 А 71.96 100

Site Details

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Tel: Fax: Web:



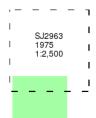


Published 1975

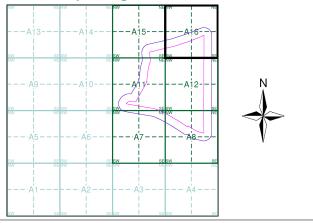
Source map scale - 1:2,500

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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

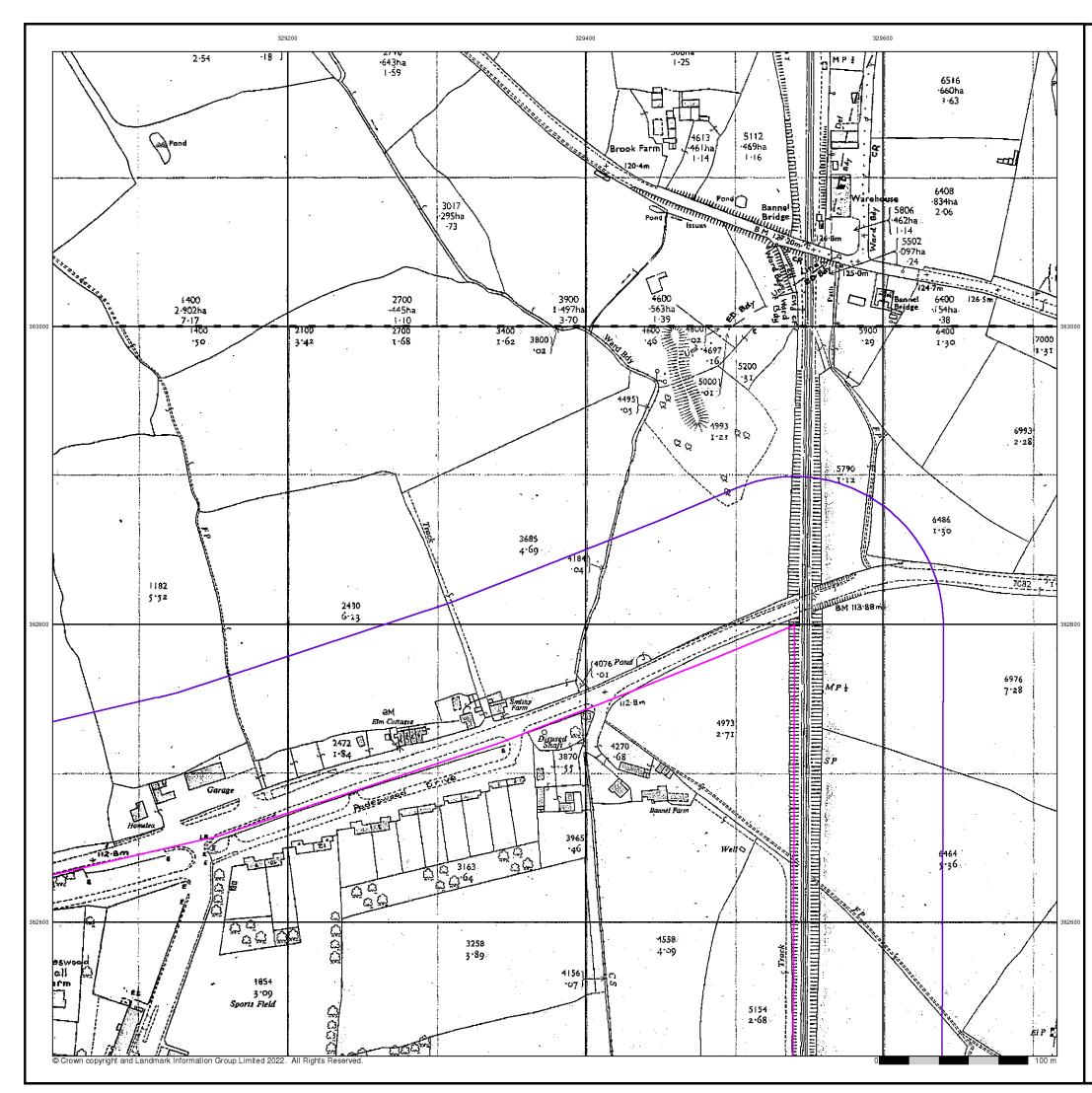
304808740_1_1 323126 А 71.96 100

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Tel: Fax: Web:



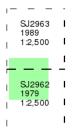


Additional SIMs Published 1979 - 1989

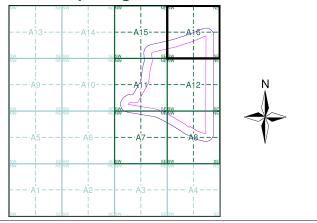
Source map scale - 1:2,500

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

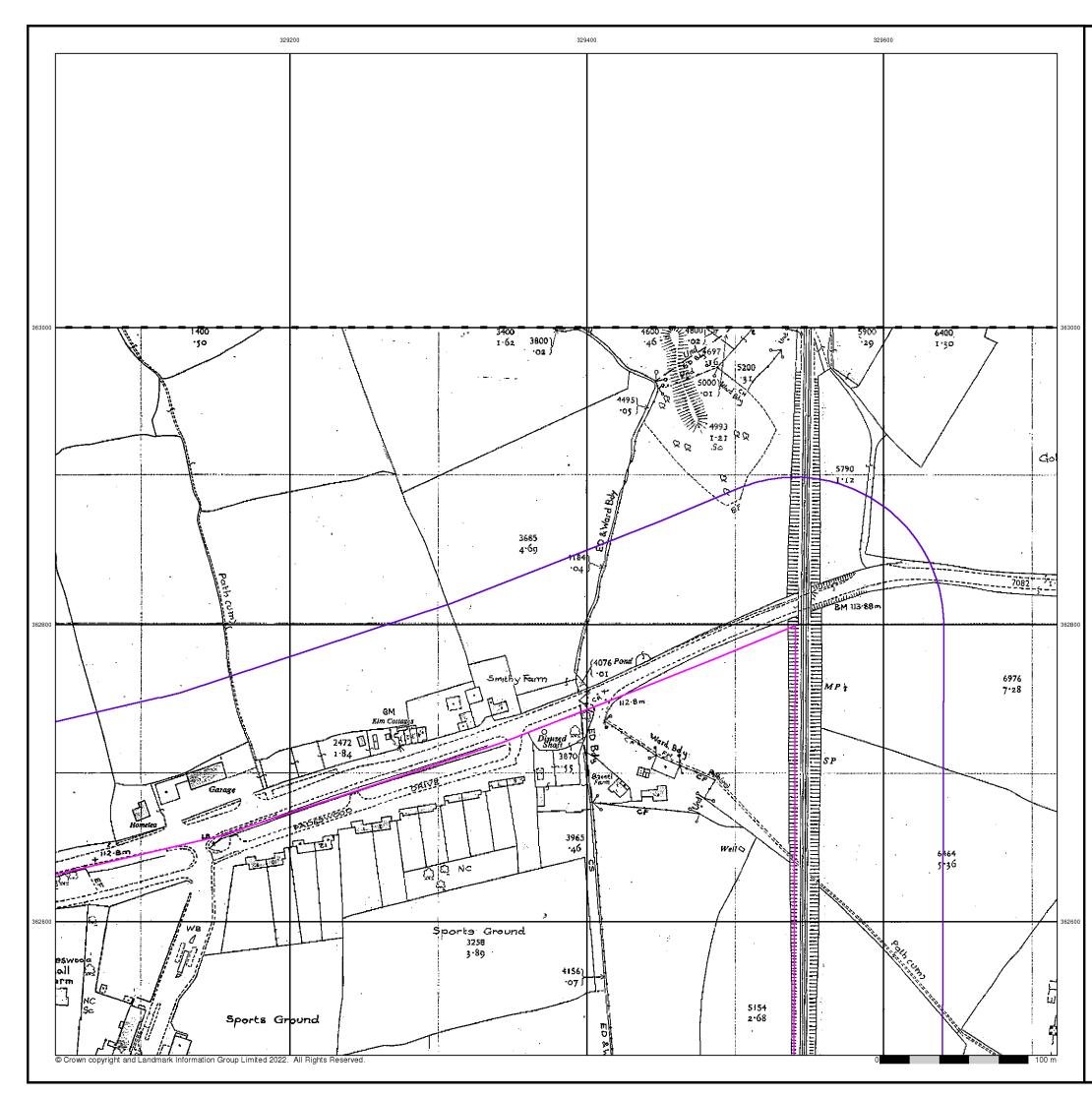
Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

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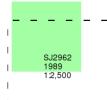
Additional SIMs

Published 1989

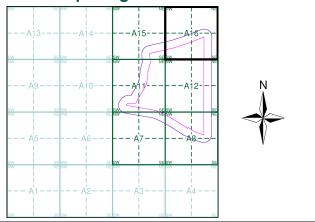
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A16



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

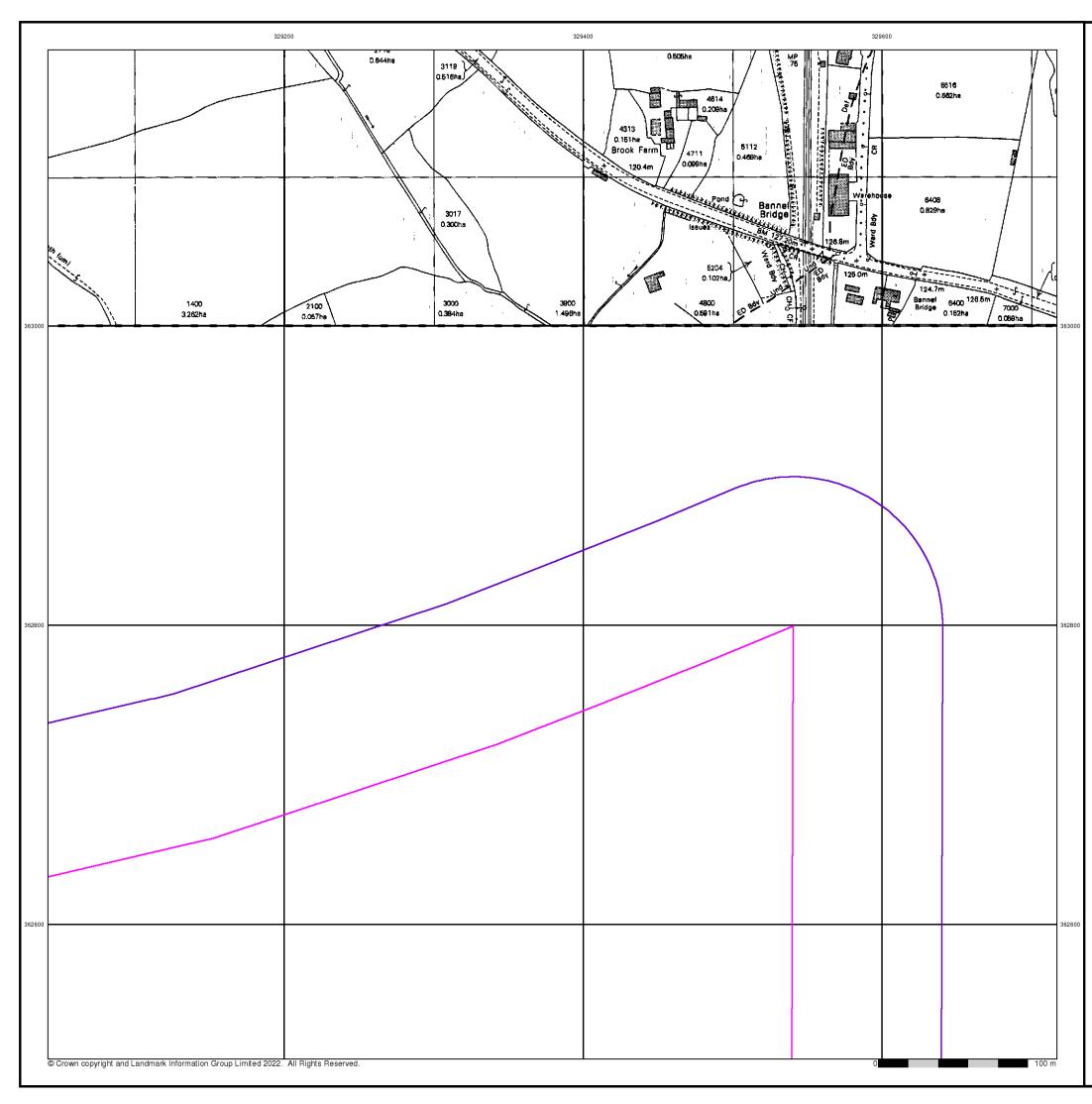
304808740_1_1 323126 А 71.96 100

Site Details

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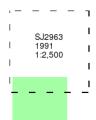


Published 1991

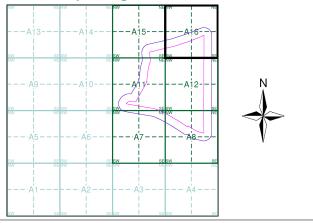
Source map scale - 1:2,500

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 A16



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

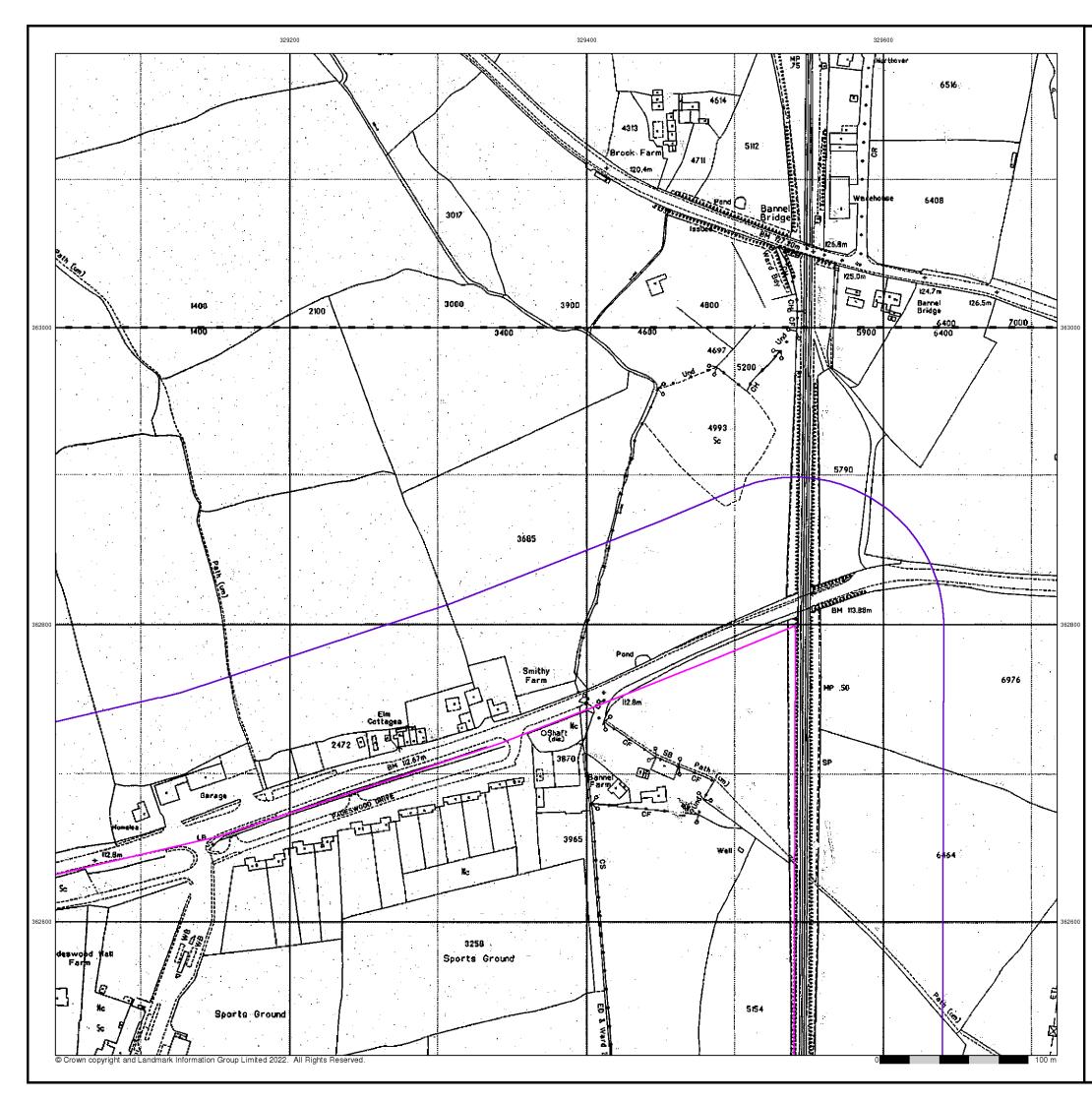
304808740_1_1 323126 А 71.96 100

Site Details

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



Tel: Fax: Web:





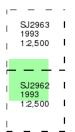
Large-Scale National Grid Data

Published 1993

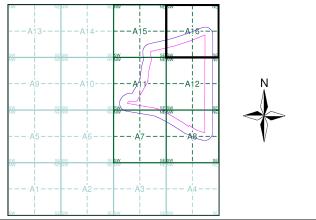
Source map scale - 1:2,500

'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: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 100

Site Details

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



Tel: Fax: Web:

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

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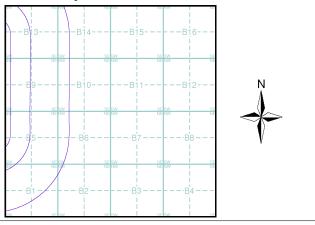
Historical Mapping Legends

Ordnance	Survey County S	eries 1:10,560	Or	dnance Surve	y Plan 1	:10,000		1:10,000 Ras	ster Mapp	bing
Grav Pit	vel Sand Pit	Other Manual Pits	Contraction of the second	Chalk Pit, Clay Pit or Quarry		🖕 Gravel Pit		Gravel Pit		Refuse tip or slag heap
C Quai	rry Shingle	••••••• ••••••• Orchard		Sand Pit	,, 	 Disused Pit or Quarry 		Rock		Rock (scattered)
^{**} ***** ********* *******************	ers	Marsh		Refuse or Slag Heap		Lake, Loch or Pond		Boulders	000 000	Boulders (scattered)
		1+7 2+5 +4°7 327 1+7 2+5 +4°7 327 1 +4°7 - 100		Dunes	° ° ° ° °	b Boulders	, , , , , , , , , , , , , , , , , , ,	Shingle	Mud	Mud
Mixed Woo	d Deciduous	Brushwood	* * *	Coniferous Trees	A 4 4	Non-Coniferous Trees	Sand	Sand		Sand Pit
			ф	Orchard ∩∩_	Scrub	\Y n ∕ Coppice	1111111	Slopes	للللللللل	Top of cliff Underground
Fir	Furze	Rough Pasture	ਜ ਜ ਜ	Bracken SMULL	Heath '	、,,,, Rough Grassland		General detail - Overhead detail		detail Narrow gauge railway
	rrow denotes م w of water	Trigonometrical Station	<u></u>	Marsh 、、、Y///	Reeds	<u>→_չ</u> Saltings		Multi-track railway		Single track railway
	ite of Antiquities 🔹 🛧	Bench Mark		Direct	tion of Flow of V	Water	_•_•	County boundary (England only)	•••••	Ci∨il, parish or community boundary
• Si	ump, Guide Post, ignal Post urface Level	Well, Spring, Boundary Post		Glasshouse		Sand		District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
Sketched	Instrume Contour	200		Sloping Masonry	Pylon — — 🗆 — · Pole	Electricity Transmission Line	۵ ^۵ **	Area of wooded vegetation Non-coniferous	۵۵ ۵۵	Non-coniferous trees Coniferous
Main Roads	Fenced Minor R	Coads Un-Fenced	Cutting				Q ↓	Coniferous trees (scattered)	** **	trees Positioned
	Sunken Road	Raised Road	⊔ Road '''∏ Under	//		⊨ Standard Gauge Single Track	* ج ج ج ج	Orchard	K K	tree Coppice or Osiers
All former and the second seco	Road over Railway	Railway over River				Siding, Tramway or Mineral Line → Narrow Gauge	پ پ ۱۲۰,	Rough Grassland	assilita	Heath
Constanting Constanting	Railway o∨er Road	Level Crossing		— Geographical Co	unty	· · · · · · · · · · · · · · · · · · ·	00_ 00_	Scrub	אַעַיר אווייר	Marsh, Salt Marsh or Reed
	Road over River or Canal	Road over Stream		Administrative Co or County of City Municipal Boroug		_	5	Water feature	← ←	Flow arrows
	Road over Stream			Burgh or District Borough, Burgh o Shown only when no	or County Cons		MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs
	County Boundary (Geogra County & Civil Parish Bour	. ,		Civil Parish Shown alternately w	hen coincidence d	of boundaries occurs		Telephone line (where shown)	- • - • -	Electricity transmission li (with poles)
+· +· + ·+	Administrative County & C	-	Ch (Boundary Post or Stone Church	PO	Police Station Post Office	← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
Co. Boro. Bdy.	County Borough Boundary County Burgh Boundary (S		F E Sta F	Club House Fire Engine Station Foot Bridge	PH	Public Convenience Public House Signal Box		Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare sta or lighting tow
Co. Burgh Bdy.		Joonanu)		Fountain Guide Post		Spring Telephone Call Box	•‡•	Site of (antiquity)		Glasshouse
yv. R.D. Bdy.	Rural District Boundary		MP M	/lile Post	TCP	Telephone Call Post				Important

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

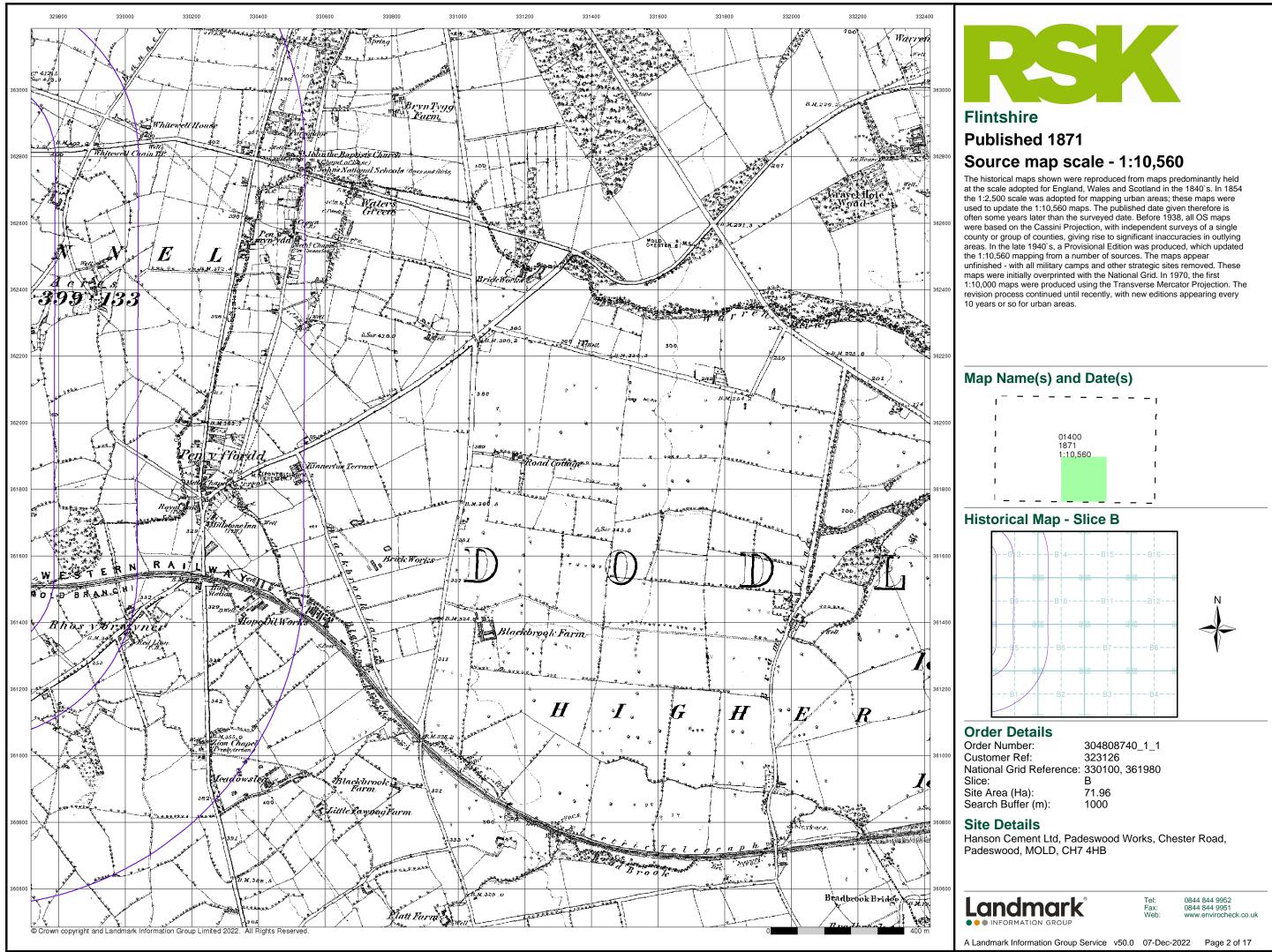
Site Details

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

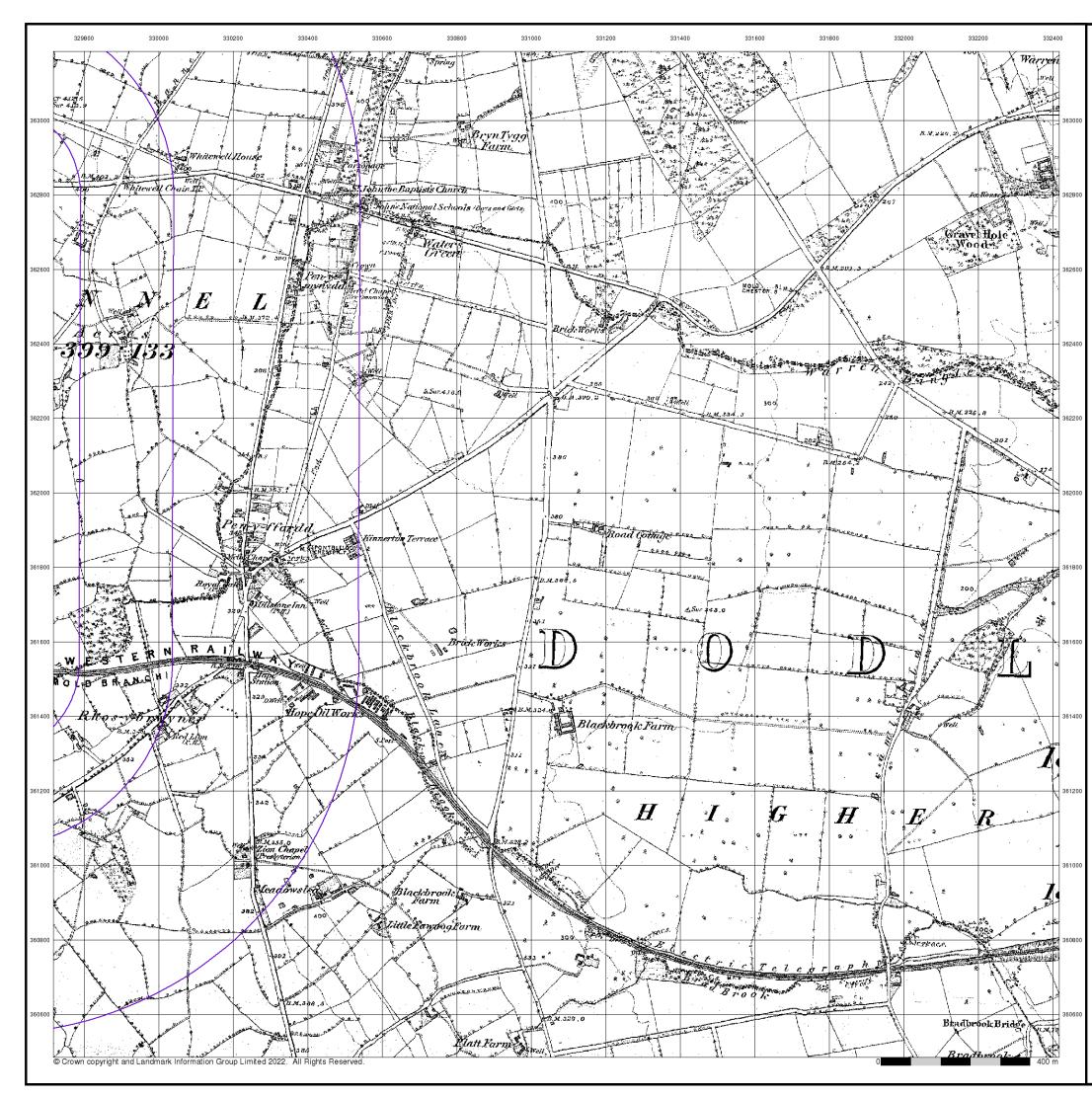
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Tel: Fax: Web:





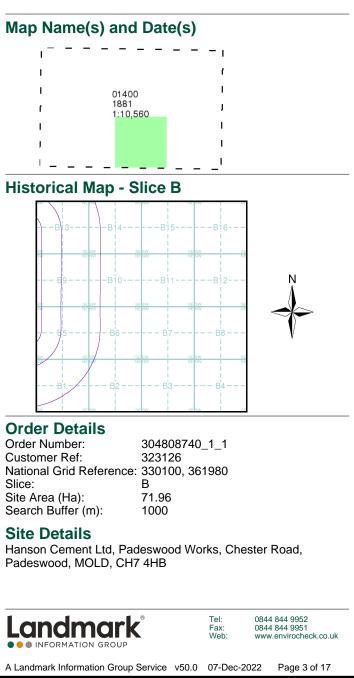


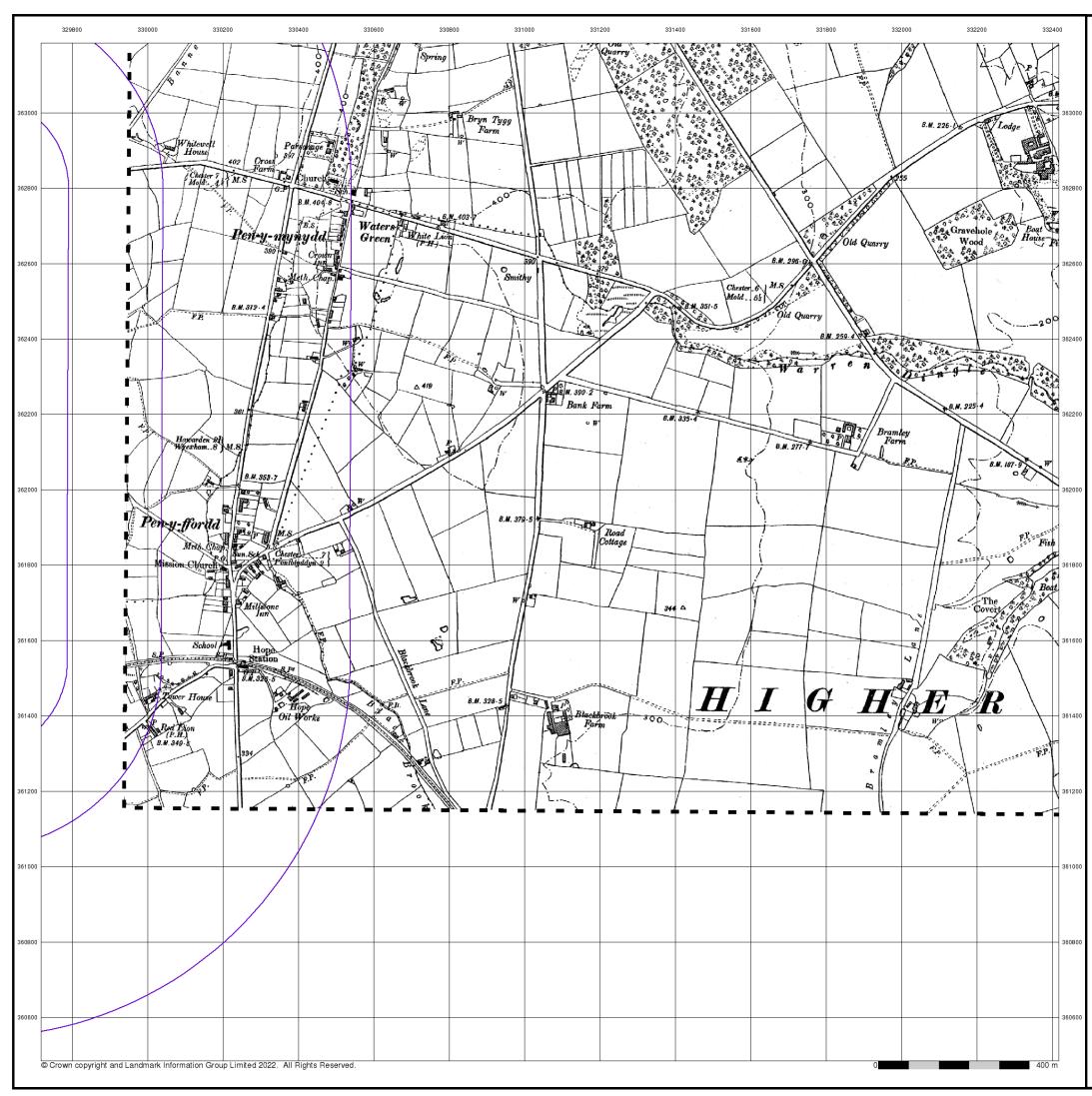




Published 1881 Source map scale - 1:10,560

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.

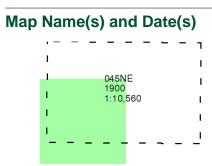




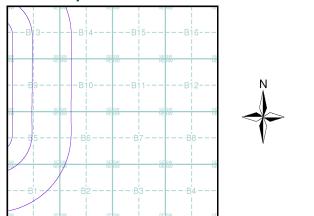


Published 1900 Source map scale - 1:10,560

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.



Historical Map - Slice B



Order Details

Order Number: Customer Ref: National Grid Reference: 330100, 361980 Slice: Site Area (Ha): Search Buffer (m):

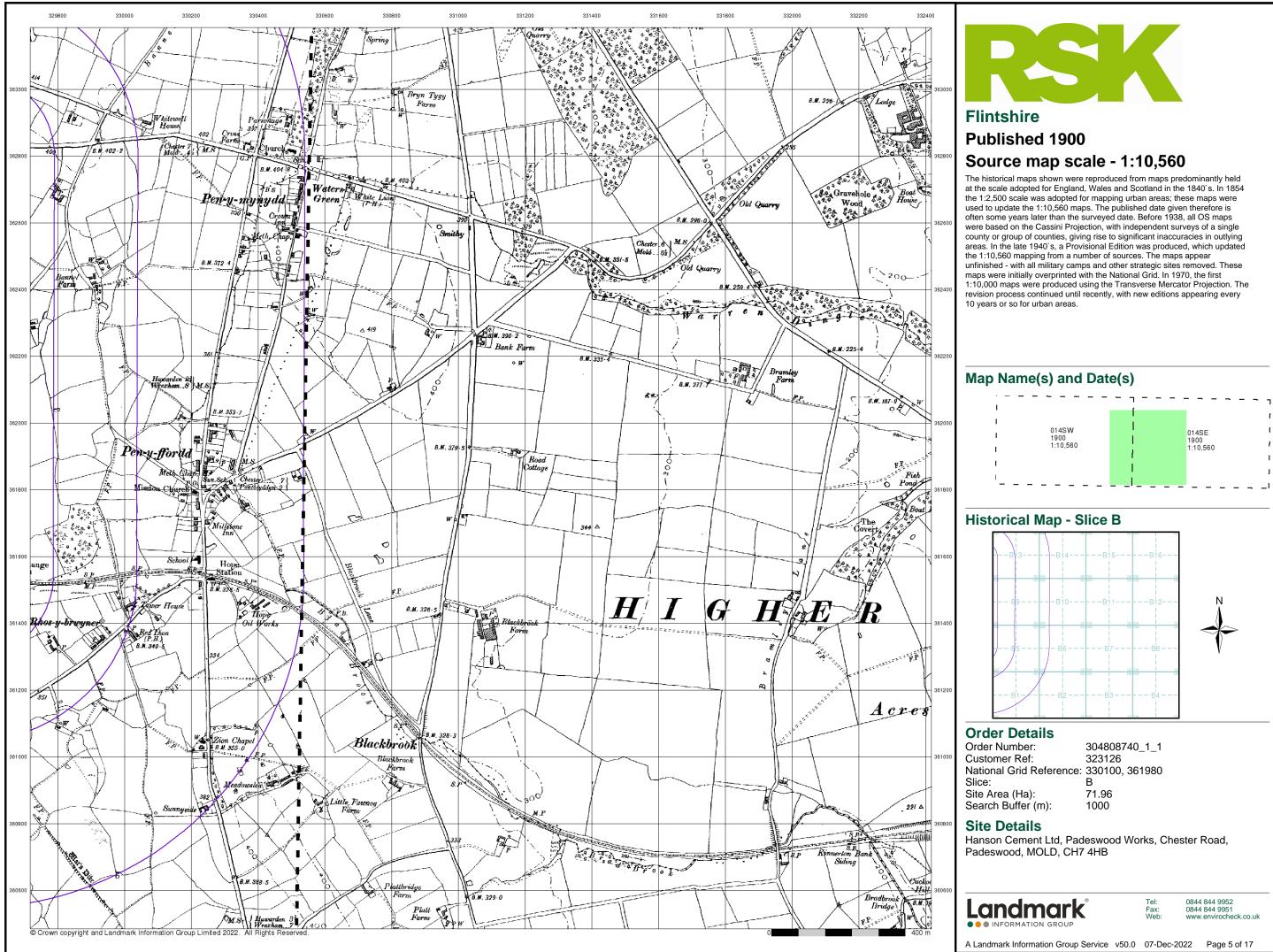
304808740_1_1 323126 В 71.96 1000

Site Details

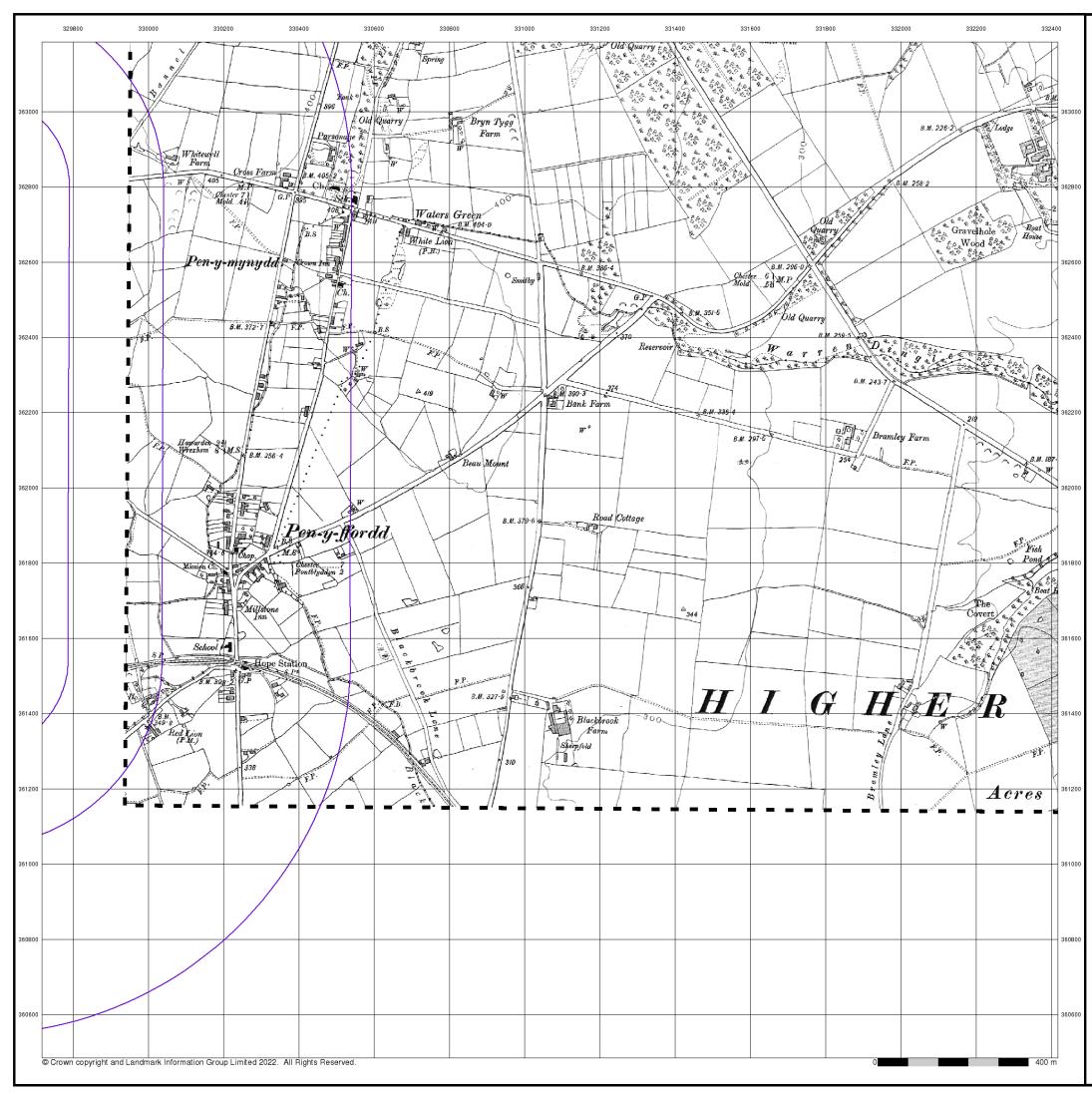
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



Tel: Fax: Web:



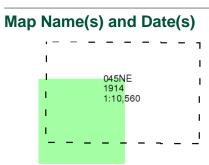




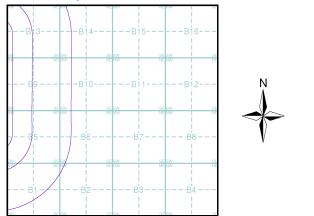


Published 1914 Source map scale - 1:10,560

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.



Historical Map - Slice B



Order Details

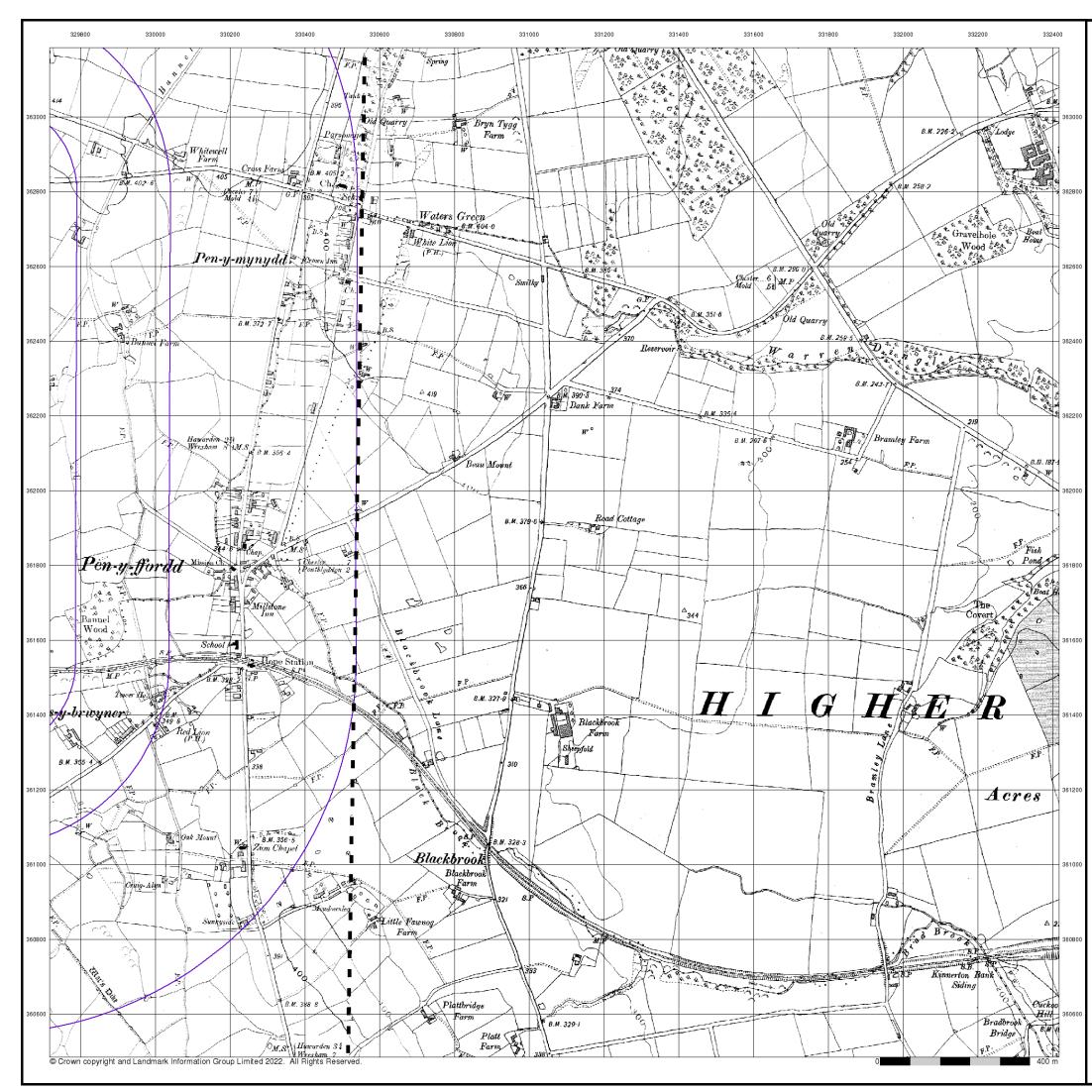
Order Number: Customer Ref: National Grid Reference: 330100, 361980 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 В 71.96 1000

Site Details

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

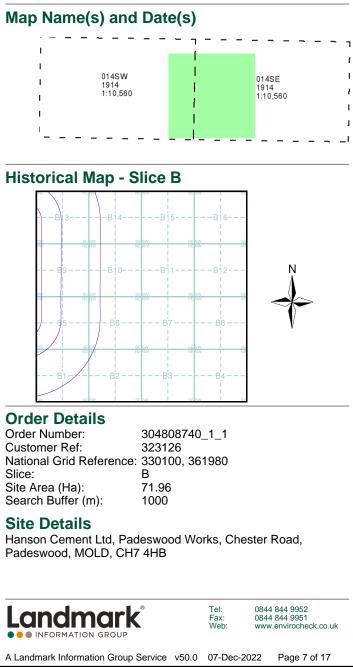


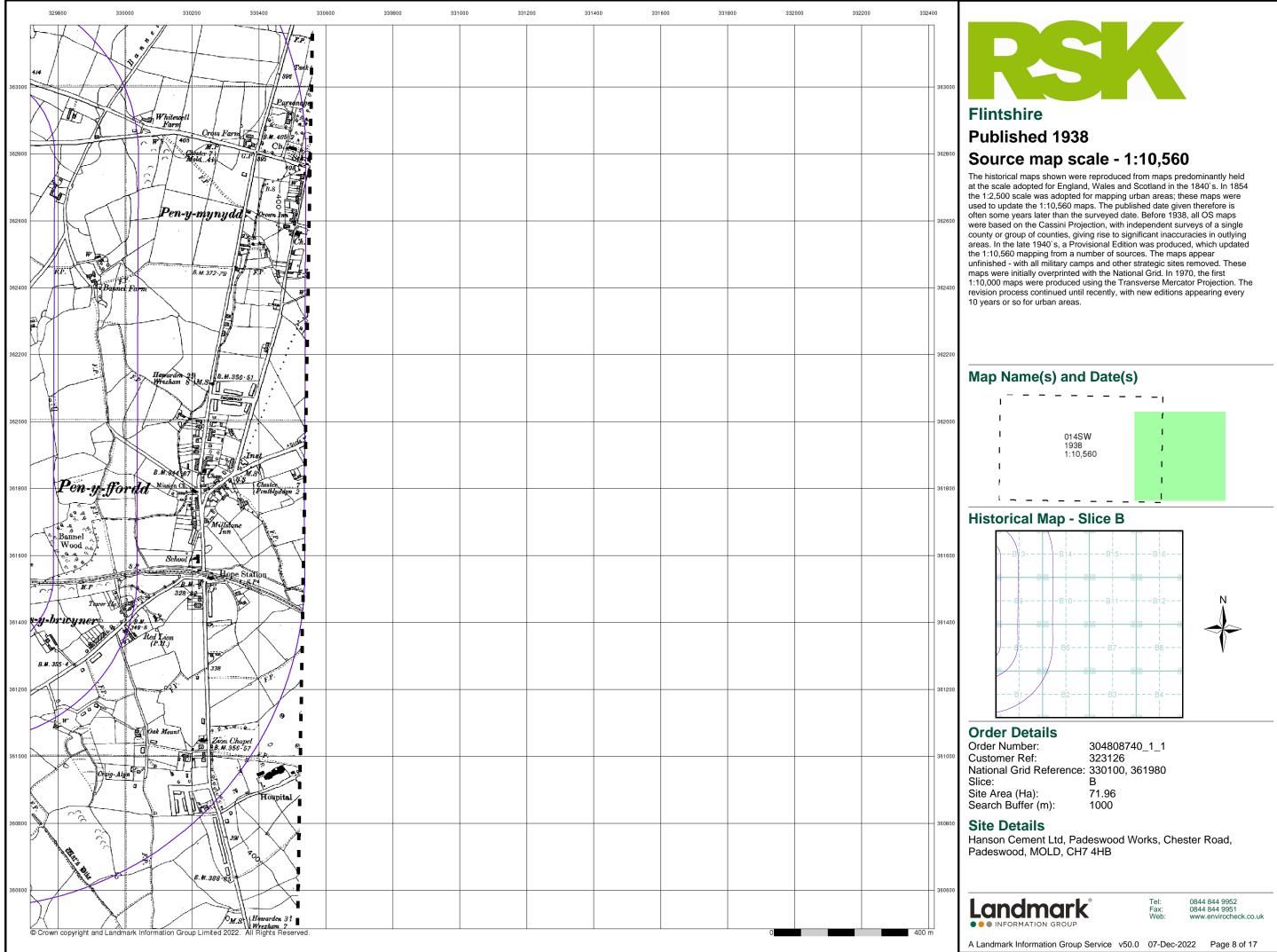




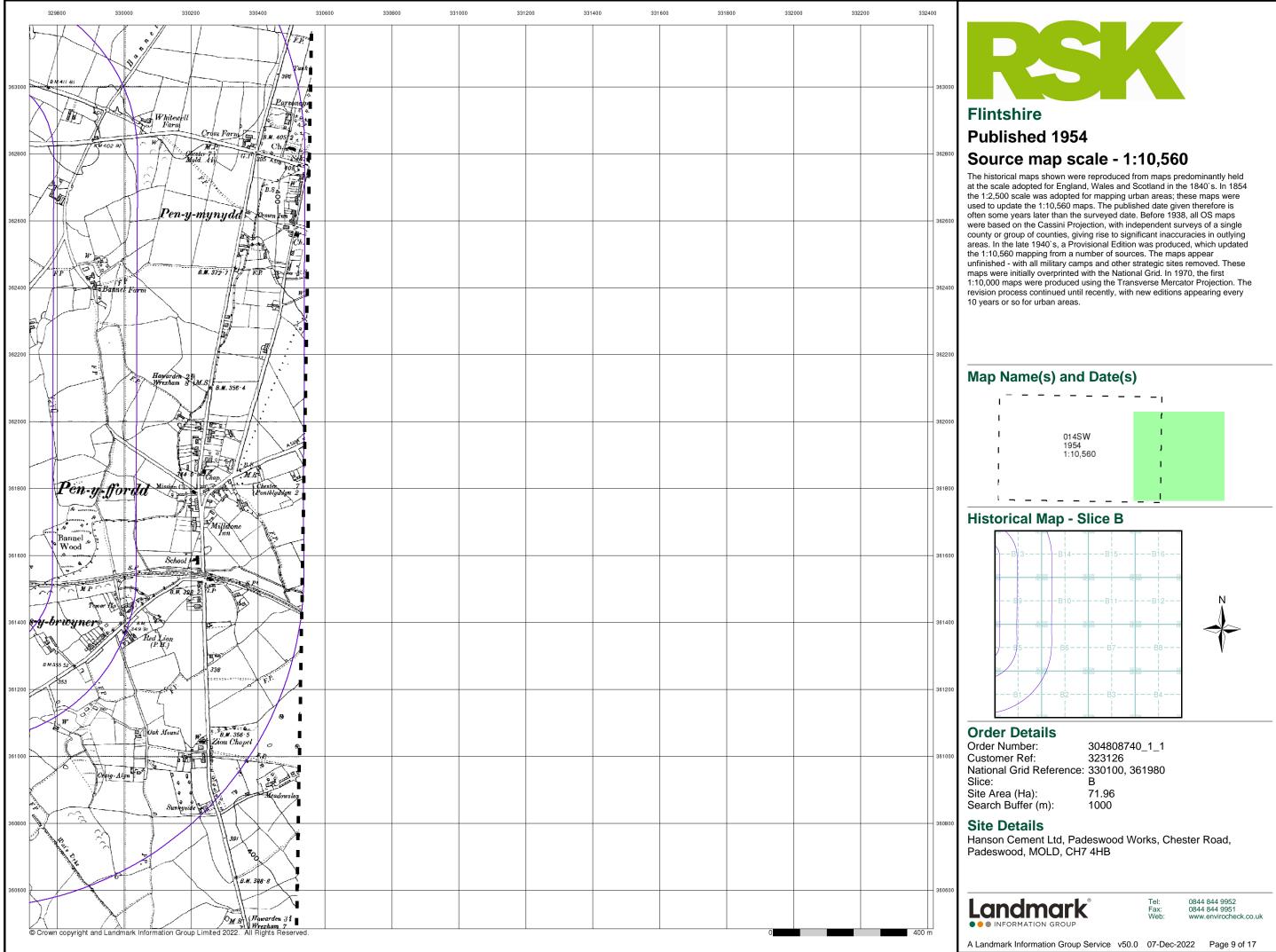
Published 1914 Source map scale - 1:10,560

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.

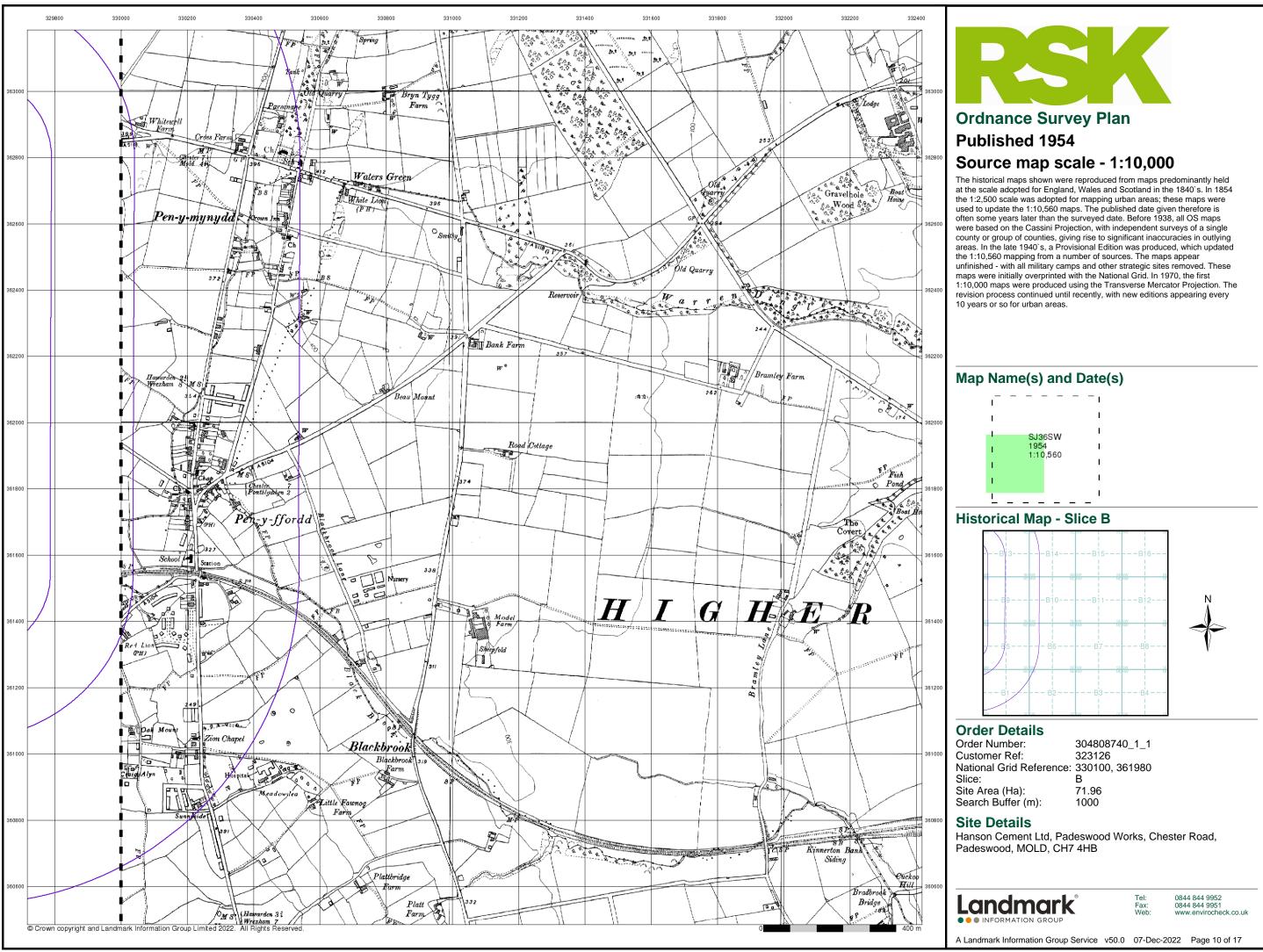




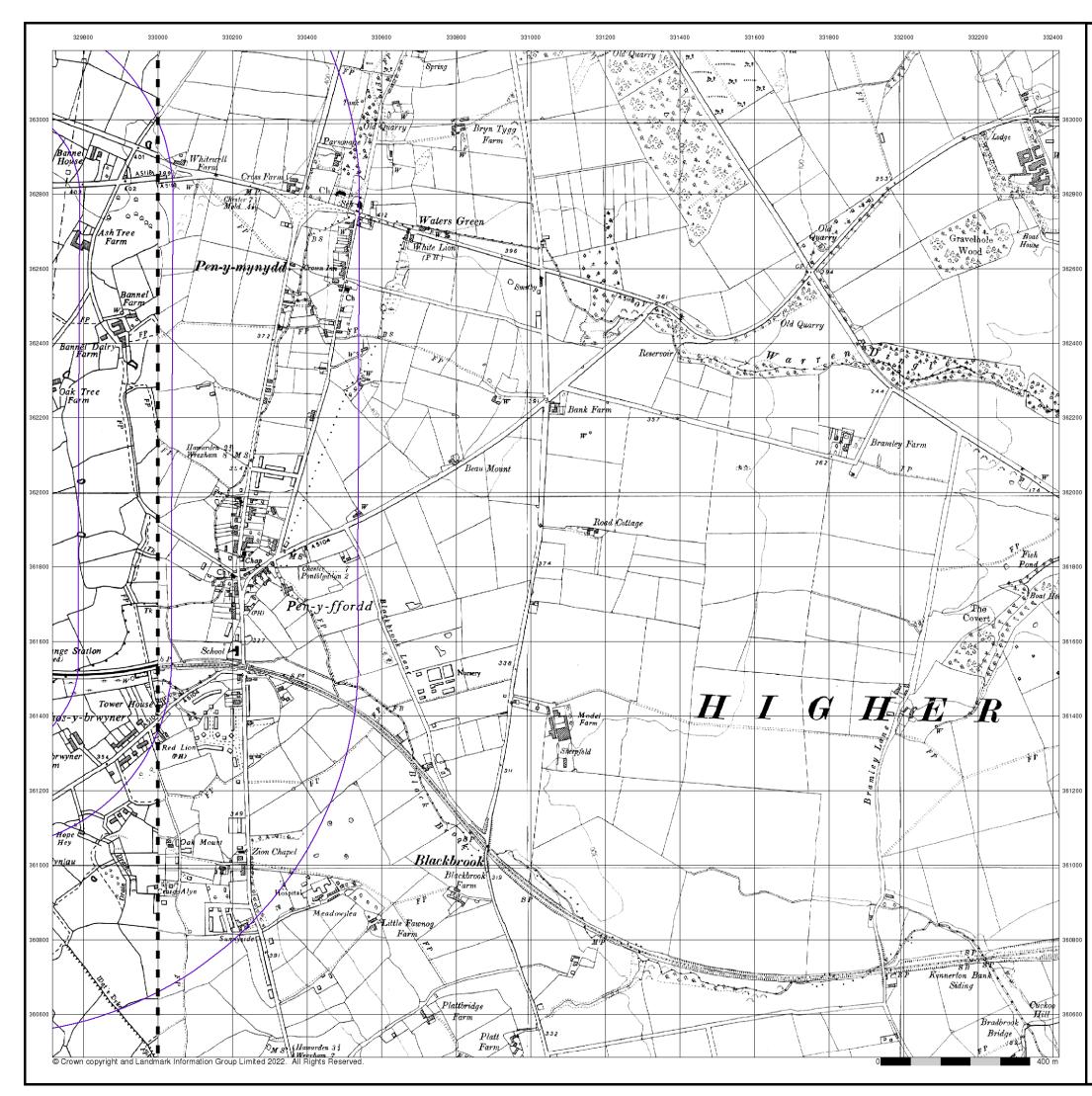






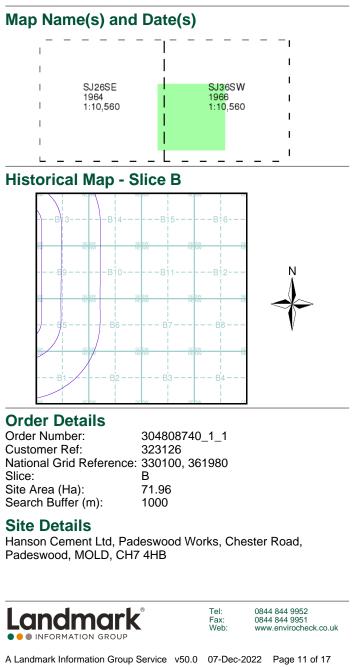


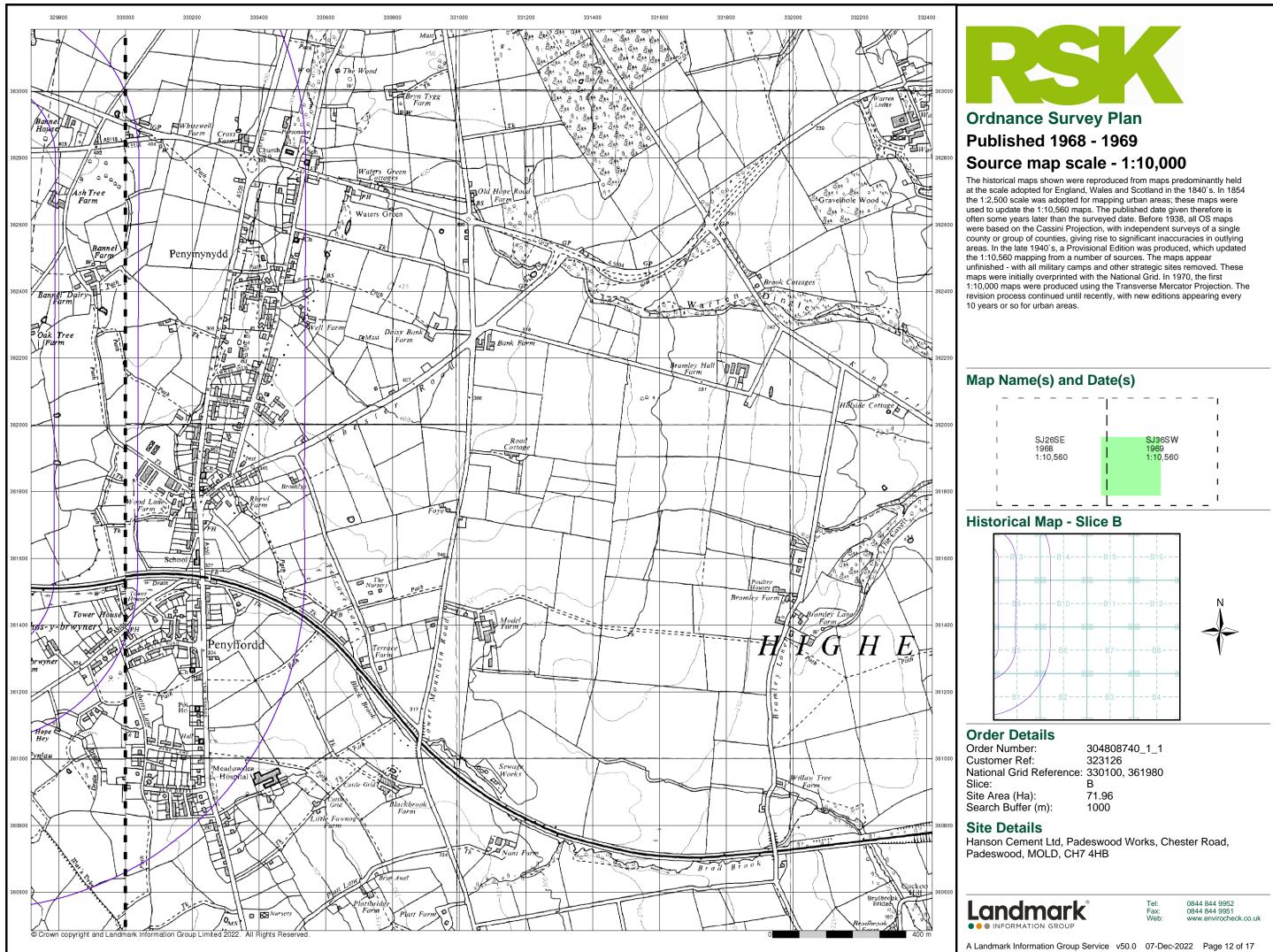




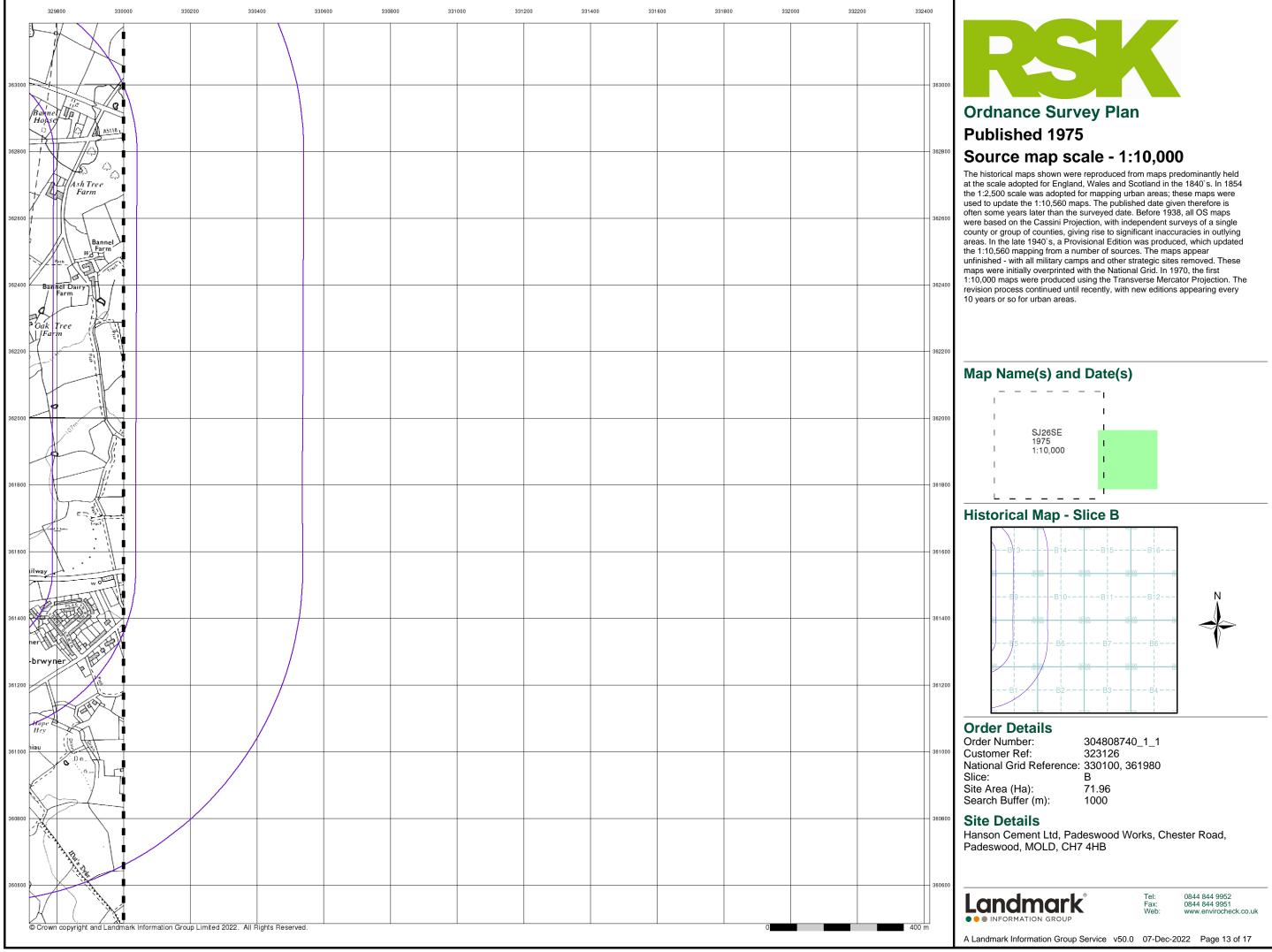


Ordnance Survey Plan Published 1964 - 1966 Source map scale - 1:10,000

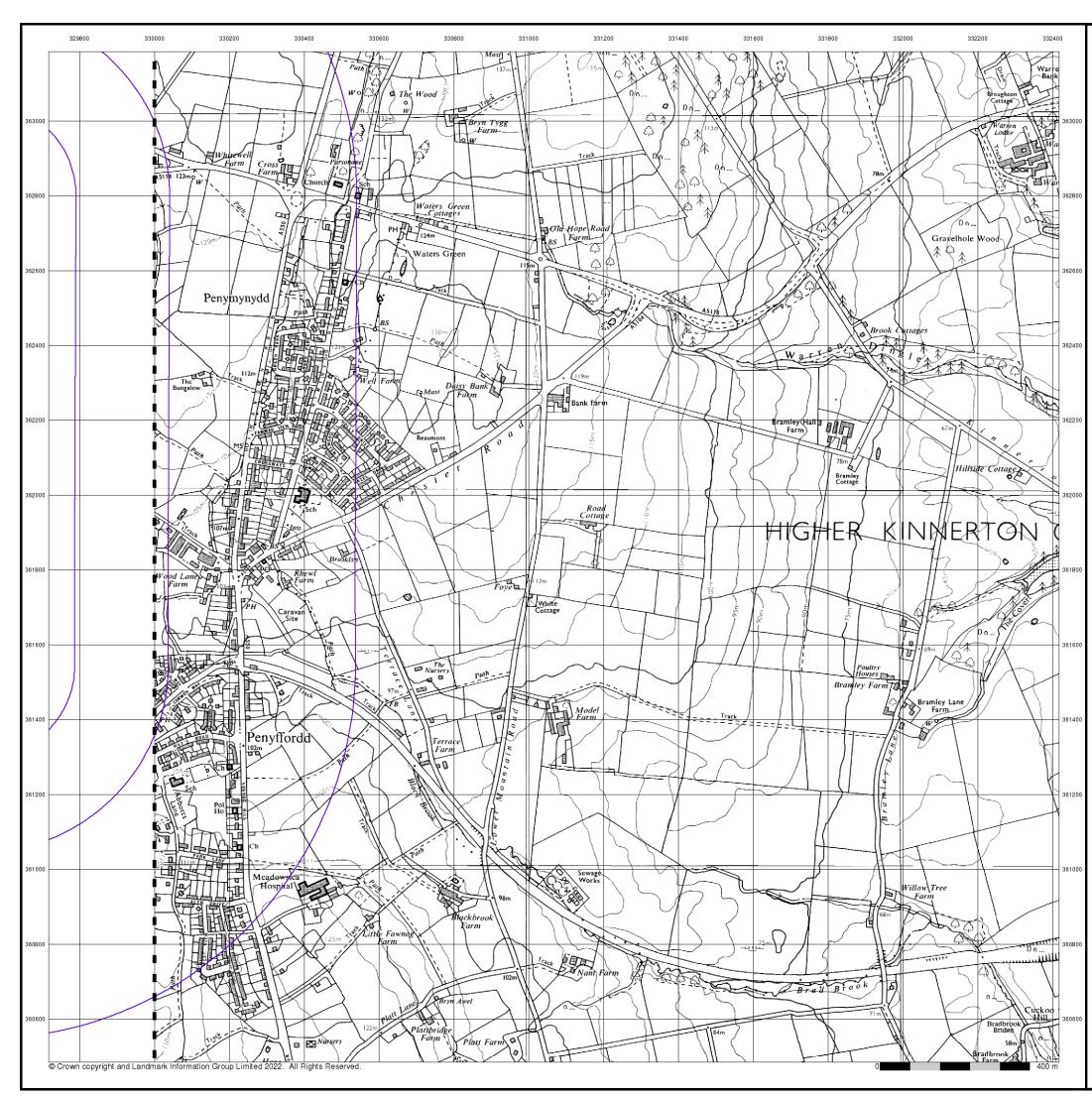








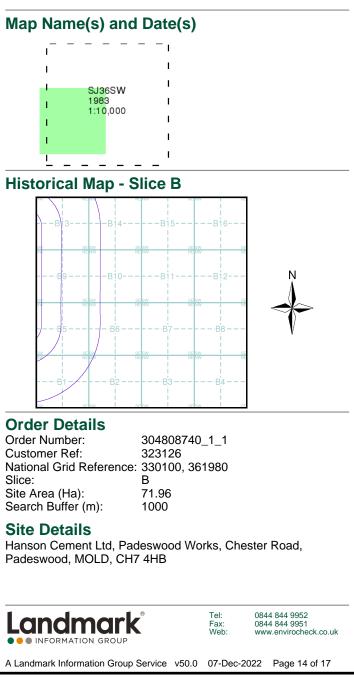


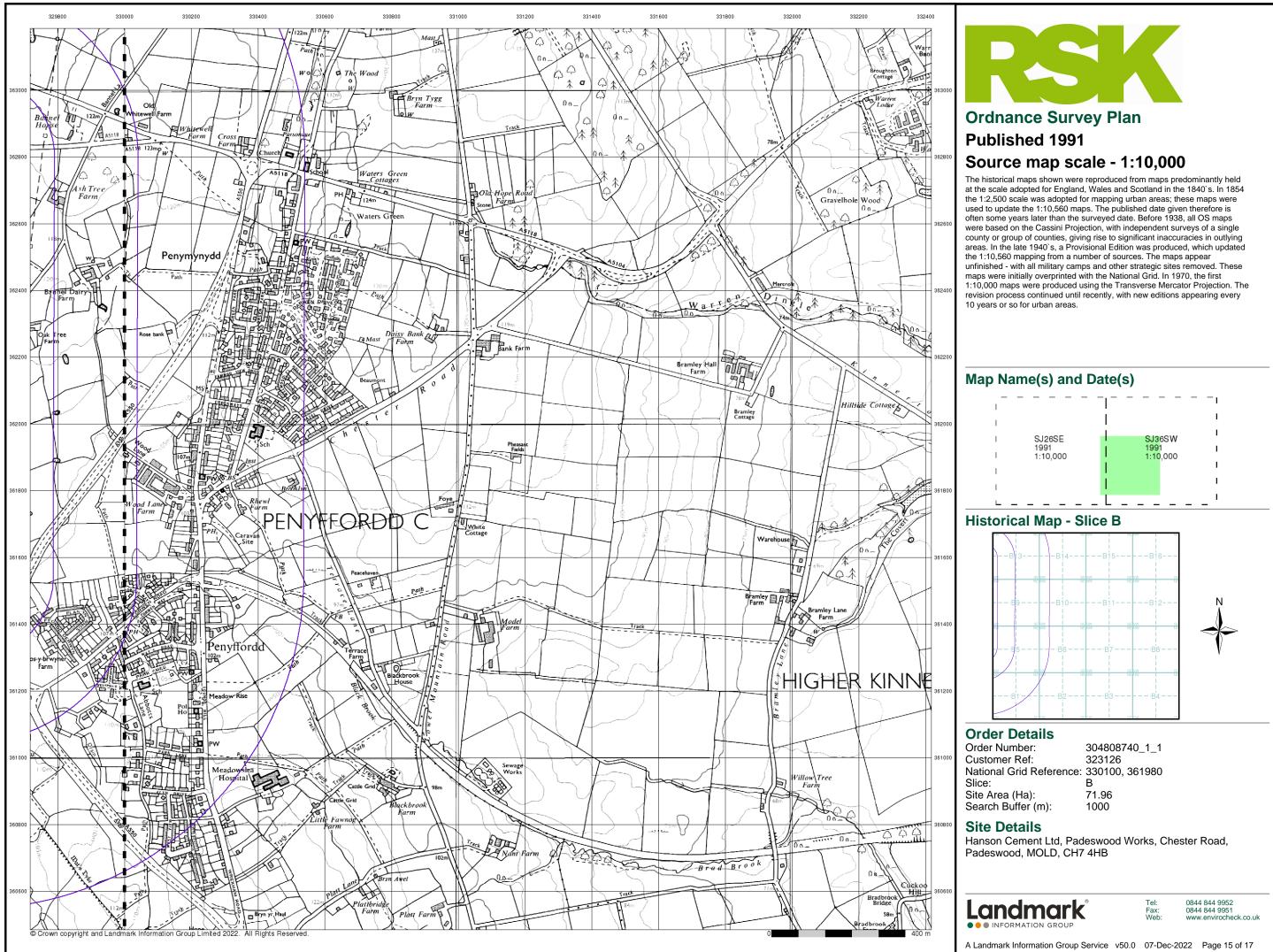




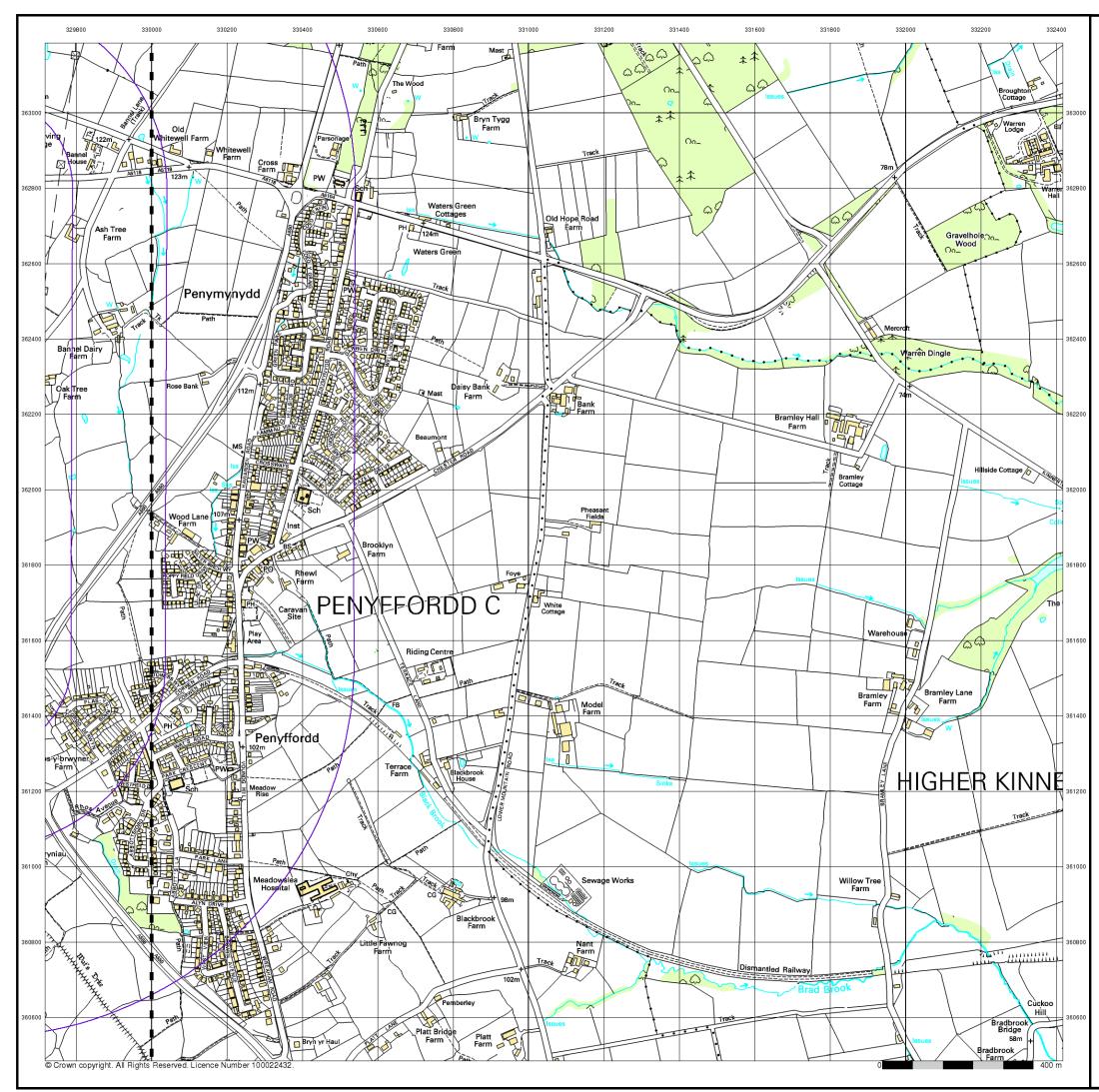
Published 1983

Source map scale - 1:10,000









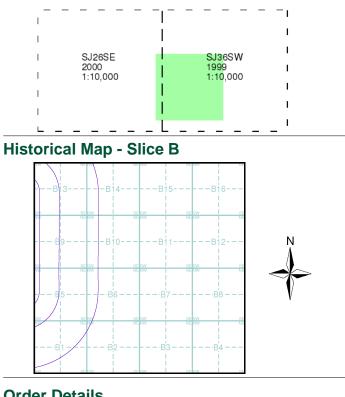


10k Raster Mapping Published 1999 - 2000

Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Order Details

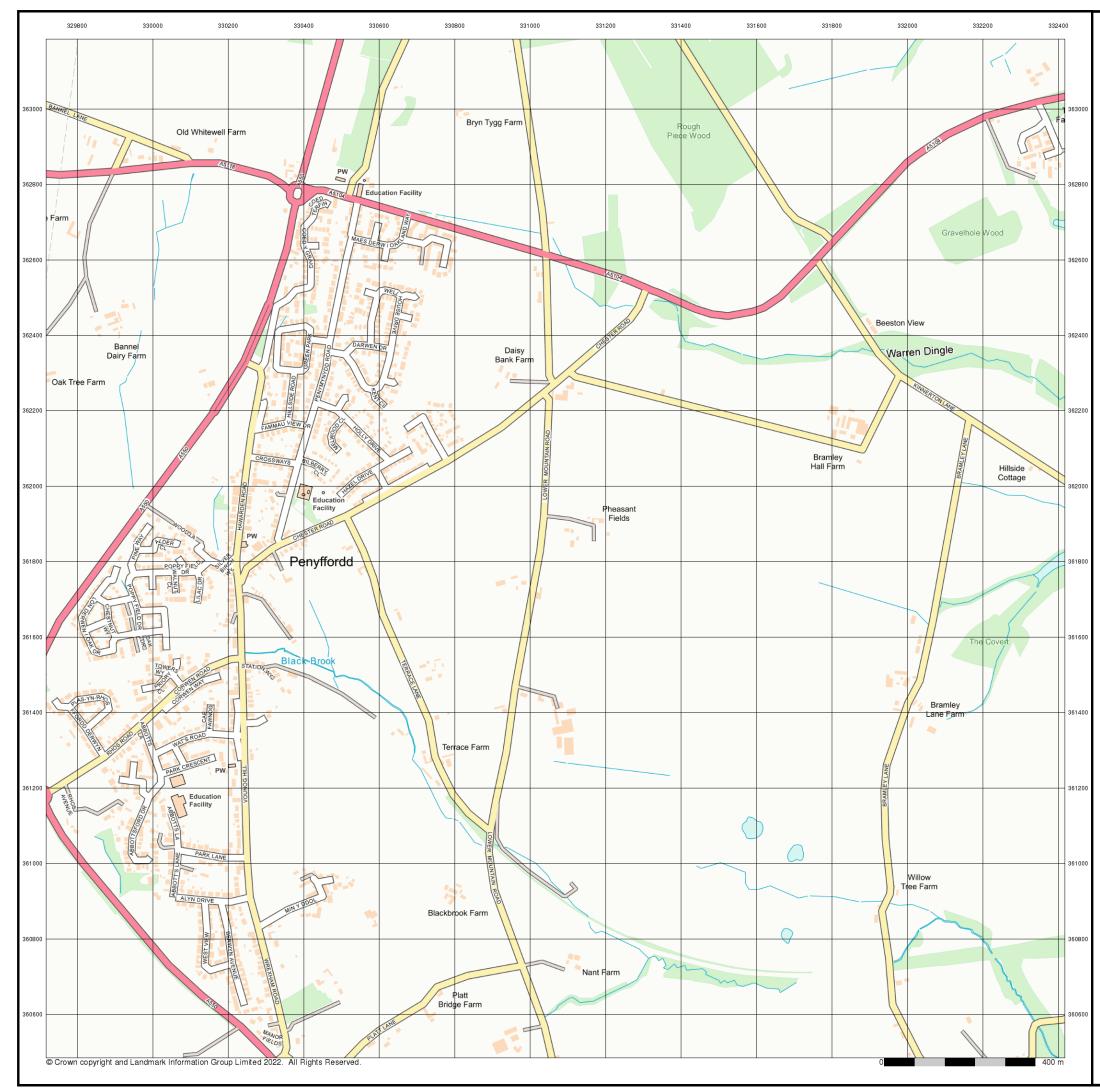
Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 330100, 361980 Slice: В Site Area (Ha): Search Buffer (m): 71.96 1000

Site Details

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



Tel: Fax: Web:





Street View

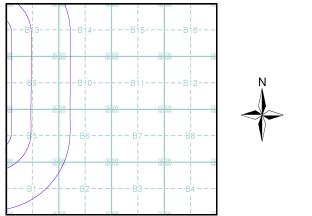
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice B



Order Details

Order Number: Customer Ref: National Grid Reference: 330100, 361980 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 В 71.96 1000

Site Details

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





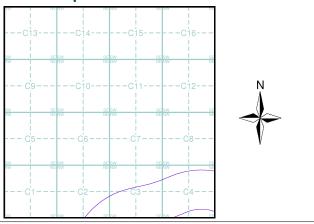
Historical Mapping Legends

Ordnance	Survey County S	eries 1:10,560	Or	dnance Surve	y Plan 1	:10,000		1:10,000 Ras	ster Mapp	bing
Grav Pit	vel Sand Pit	Other Manual Pits	Contraction of the second	Chalk Pit, Clay Pit or Quarry		🖕 Gravel Pit		Gravel Pit		Refuse tip or slag heap
C Quai	rry Shingle	••••••• ••••••• Orchard		Sand Pit	,, 	 Disused Pit or Quarry 		Rock		Rock (scattered)
^{**} ***** ********* *******************	ers	Marsh		Refuse or Slag Heap		Lake, Loch or Pond		Boulders	000 000	Boulders (scattered)
		1+7 2+5 +4°7 327 1+7 2+5 +4°7 327 1 +4°7 - 100		Dunes	° ° ° ° °	b Boulders	, , , , , , , , , , , , , , , , , , ,	Shingle	Mud	Mud
Mixed Woo	d Deciduous	Brushwood	* * *	Coniferous Trees	A 4 4	Non-Coniferous Trees	Sand	Sand		Sand Pit
			ф	Orchard ∩∩_	Scrub	\Y n ∕ Coppice	*******	Slopes	للللللللل	Top of cliff Underground
Fir	Furze	Rough Pasture	ਜ ਜ ਜ	Bracken SMULL	Heath '	、,,,, Rough Grassland		General detail - Overhead detail		detail Narrow gauge railway
	rrow denotes م w of water	Trigonometrical Station	<u></u>	Marsh 、、、Y///	Reeds	<u>→_չ</u> Saltings		Multi-track railway		Single track railway
	ite of Antiquities 🔹 🛧	Bench Mark		Direct	tion of Flow of V	Water	_•_•	County boundary (England only)	•••••	Ci∨il, parish or community boundary
• Si	ump, Guide Post, ignal Post urface Level	Well, Spring, Boundary Post		Glasshouse		Sand		District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
Sketched	Instrume Contour	200		Sloping Masonry	Pylon — — 🗆 — · Pole	Electricity Transmission Line	۵ ^۵ **	Area of wooded vegetation Non-coniferous	۵۵ ۵۵	Non-coniferous trees Coniferous
Main Roads	Fenced Minor R	Roads Un-Fenced	Cutting				Q ↓	Coniferous trees (scattered)	** **	trees Positioned
	Sunken Road	Raised Road	⊔ Road '''∏ Under	//		⊨ Standard Gauge Single Track	* ج ج ج ج	Orchard	K K	tree Coppice or Osiers
All from the second sec	Road over Railway	Railway over River				Siding, Tramway or Mineral Line → Narrow Gauge	پ پ ۱۲۰,	Rough Grassland	assilita	Heath
Constanting Constanting	Railway o∨er Road	Level Crossing		— Geographical Co	unty	· · · · · · · · · · · · · · · · · · ·	00_ 00_	Scrub	אַאַיר אווייר	Marsh, Salt Marsh or Reed
	Road over River or Canal	Road over Stream		Administrative Co or County of City Municipal Boroug		_	5	Water feature	← ←	Flow arrows
	Road over Stream			Burgh or District Borough, Burgh o Shown only when no	or County Cons		MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs
	County Boundary (Geogra County & Civil Parish Bour	. ,		Civil Parish Shown alternately w	hen coincidence d	of boundaries occurs		Telephone line (where shown)	- • - • -	Electricity transmission li (with poles)
+· +· + ·+	Administrative County & C	-	Ch (Boundary Post or Stone Church	PO	Police Station Post Office	← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
Co. Boro. Bdy.	County Borough Boundary County Burgh Boundary (S		F E Sta F	Club House Fire Engine Station Foot Bridge	PH	Public Convenience Public House Signal Box		Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare sta or lighting tow
Co. Burgh Bdy.		Joonanu)		Fountain Guide Post		Spring Telephone Call Box	•‡•	Site of (antiquity)		Glasshouse
yv. R.D. Bdy.	Rural District Boundary		MP M	/lile Post	TCP	Telephone Call Post				Important

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:
 C

 Site Area (Ha):
 71.96

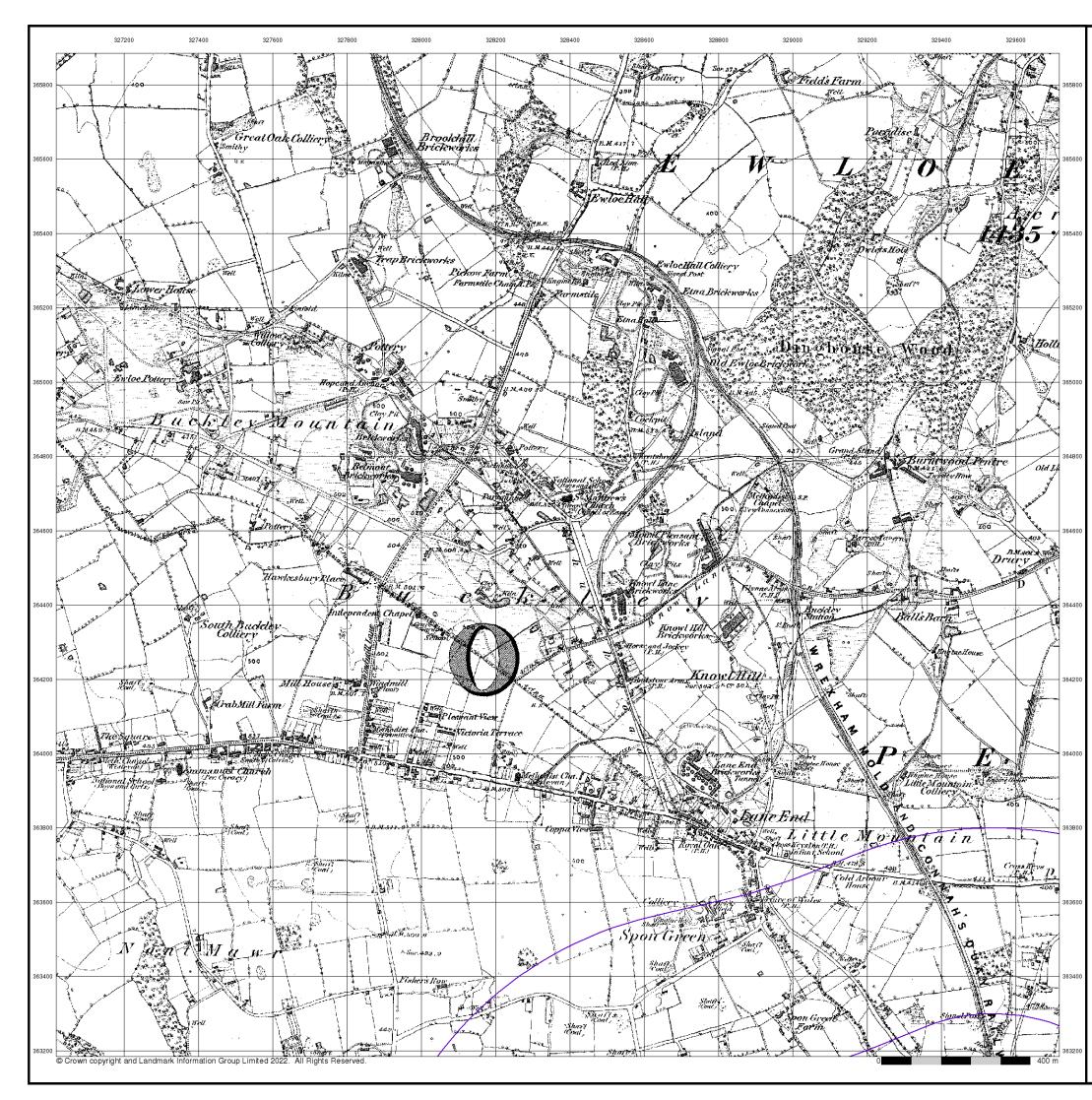
 Search Buffer (m):
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Site Details

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

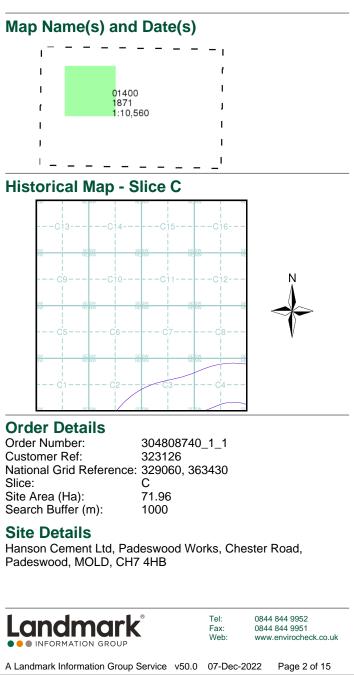


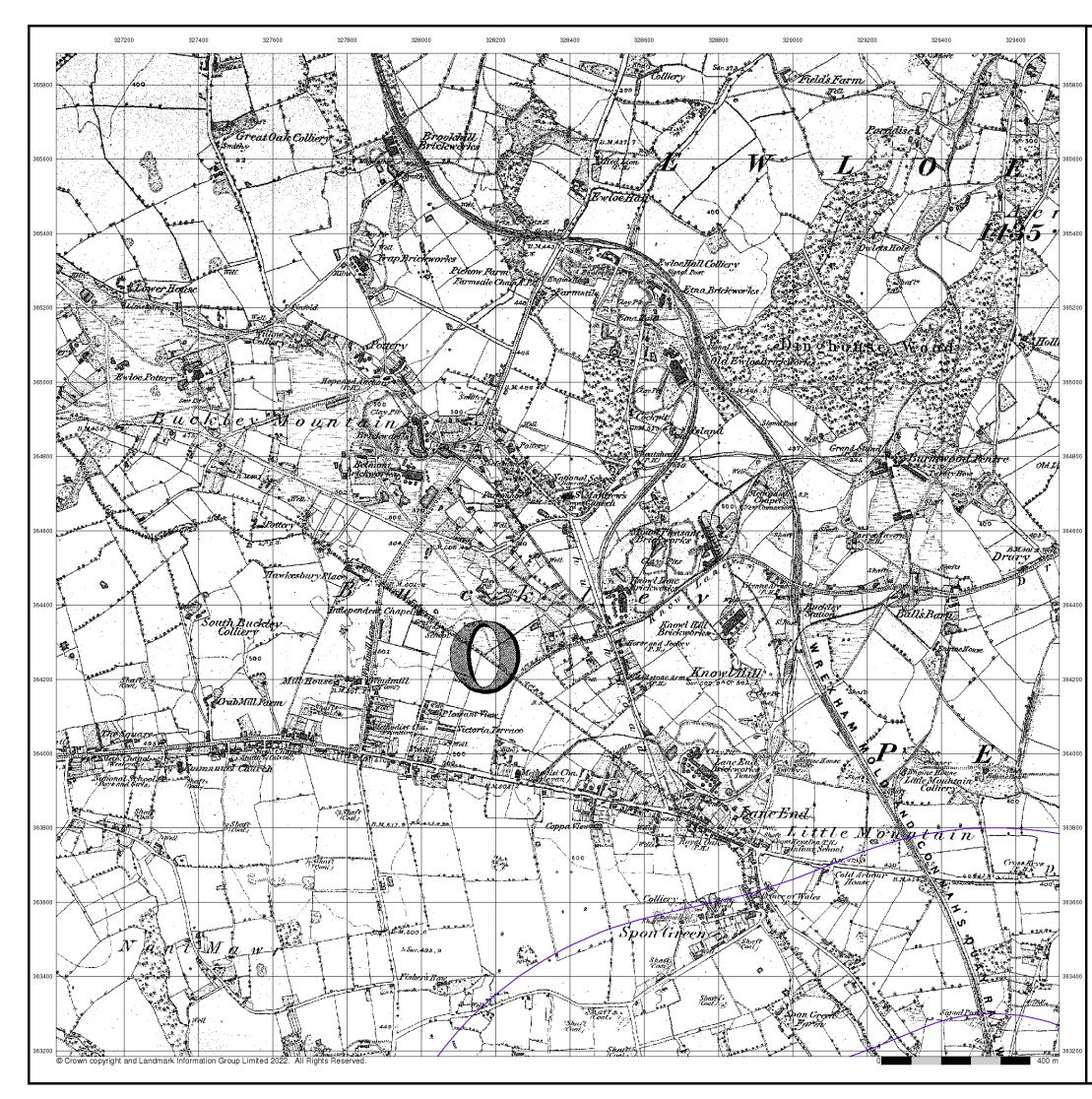
Tel: Fax: Web:





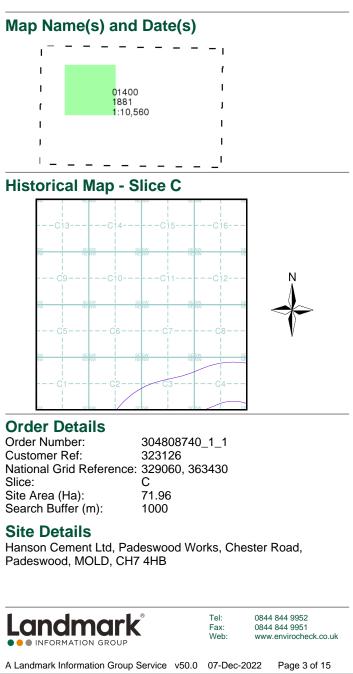
Published 1871 Source map scale - 1:10,560







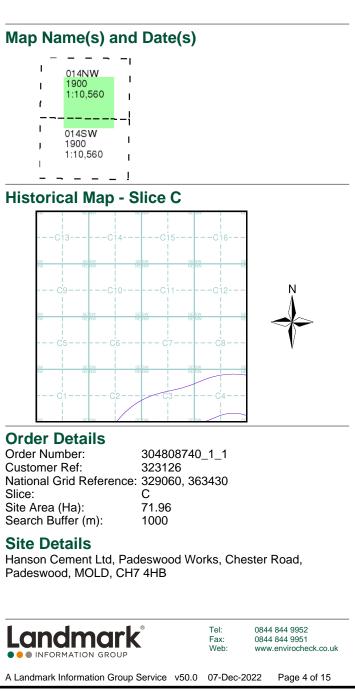
Published 1881 Source map scale - 1:10,560

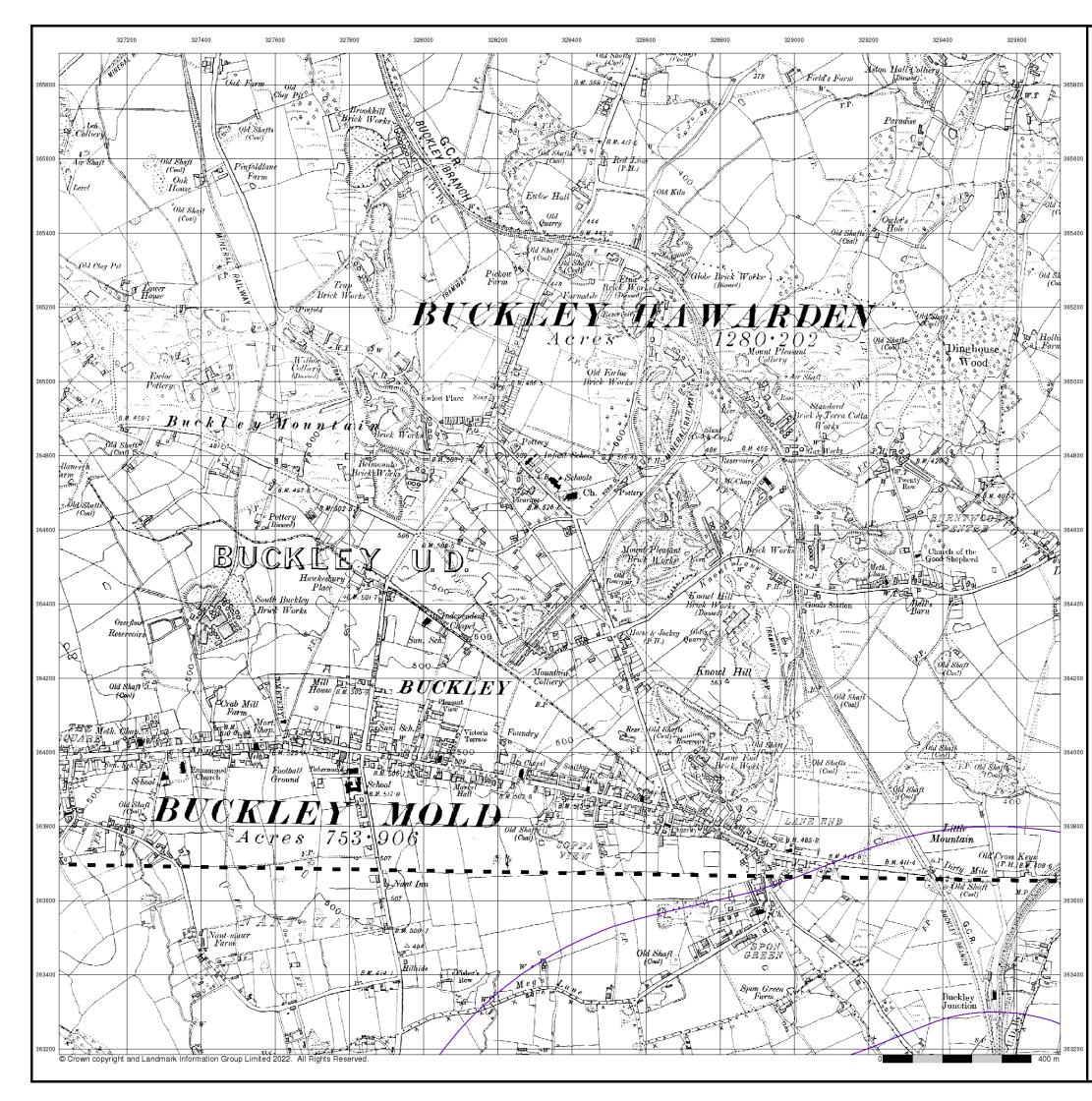






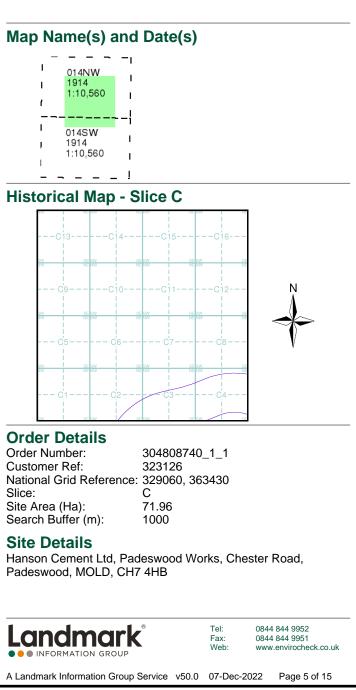
Published 1900 Source map scale - 1:10,560

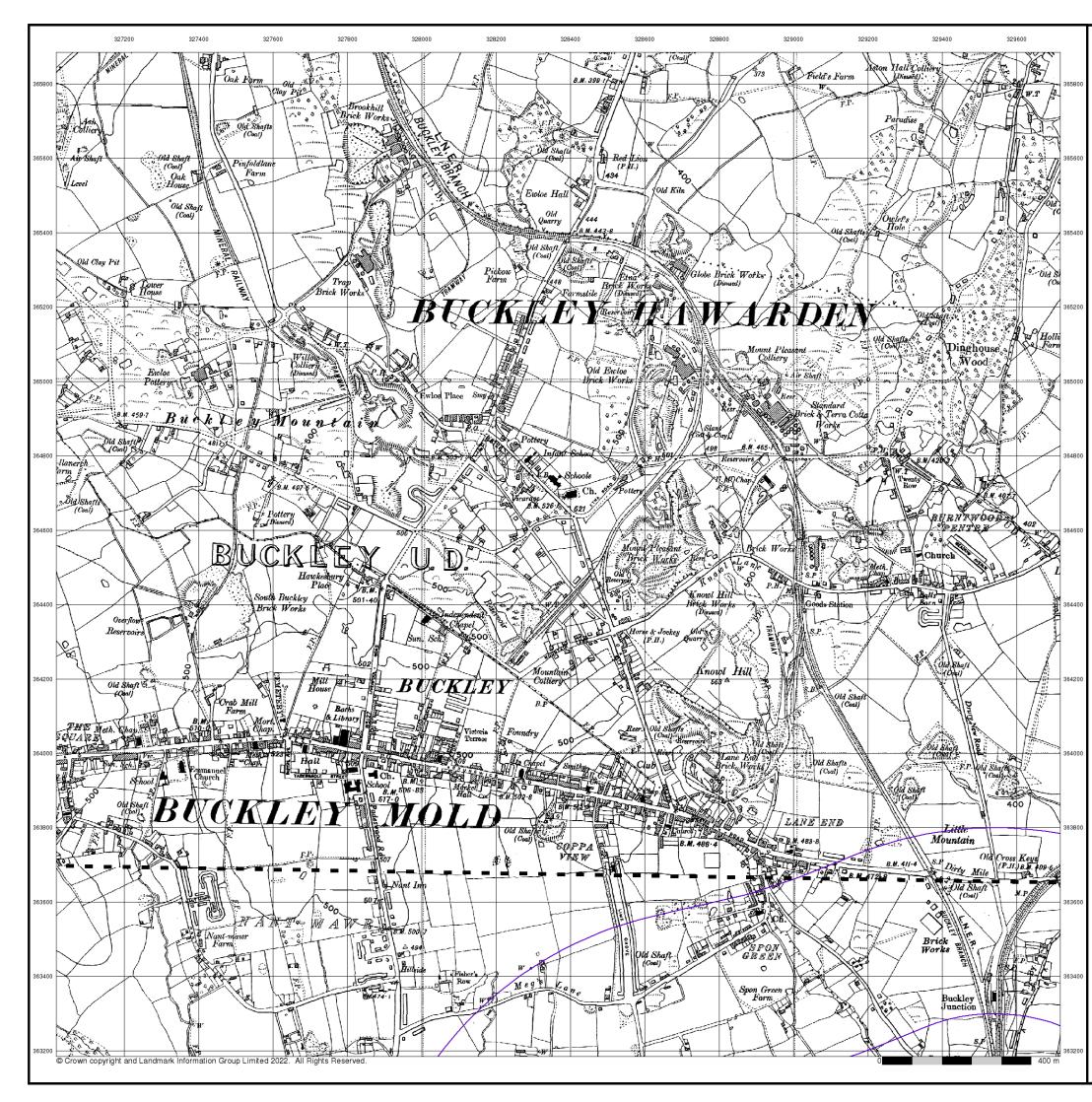






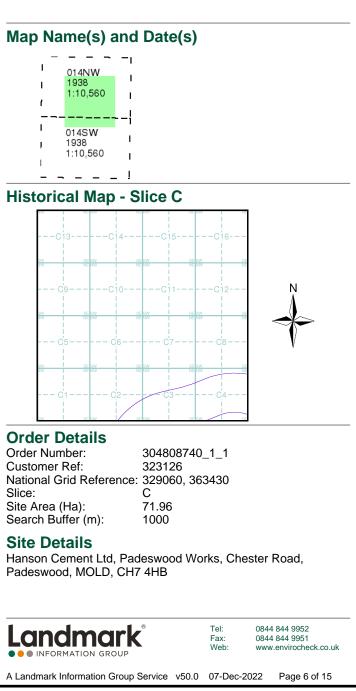
Published 1914 Source map scale - 1:10,560







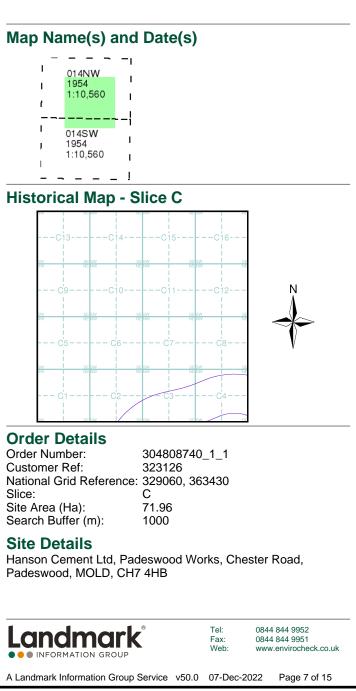
Published 1938 Source map scale - 1:10,560

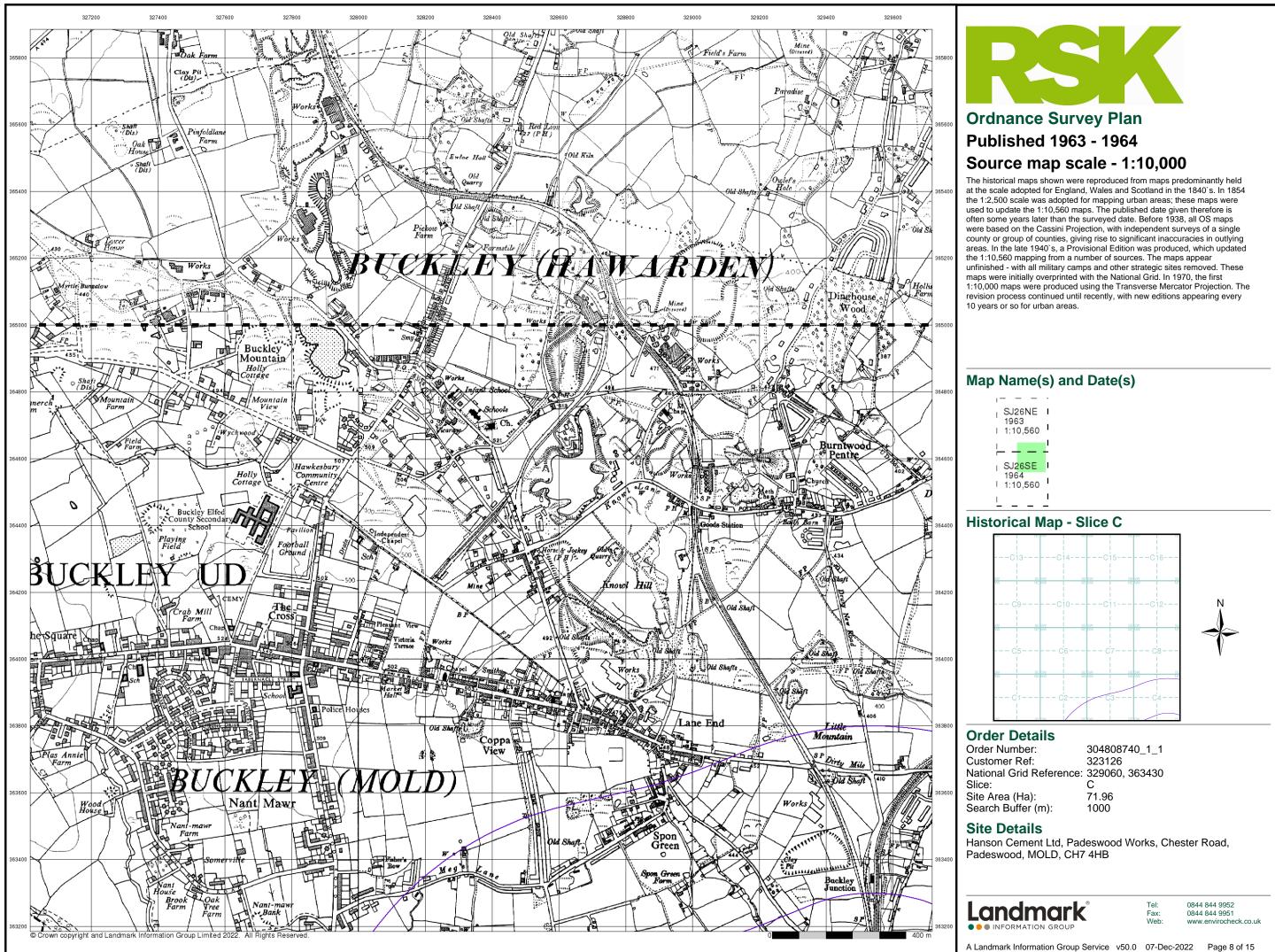




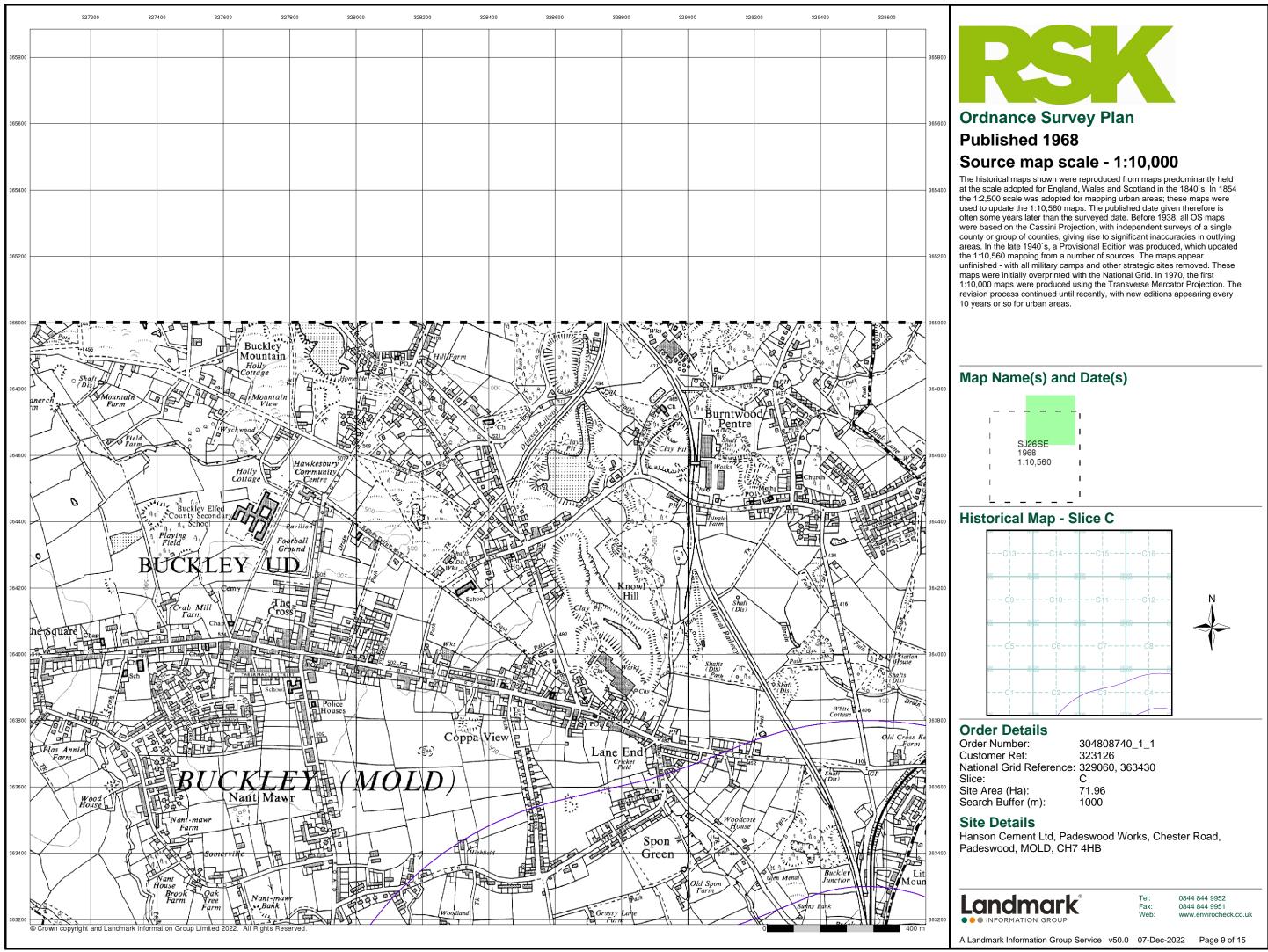


Published 1954 Source map scale - 1:10,560

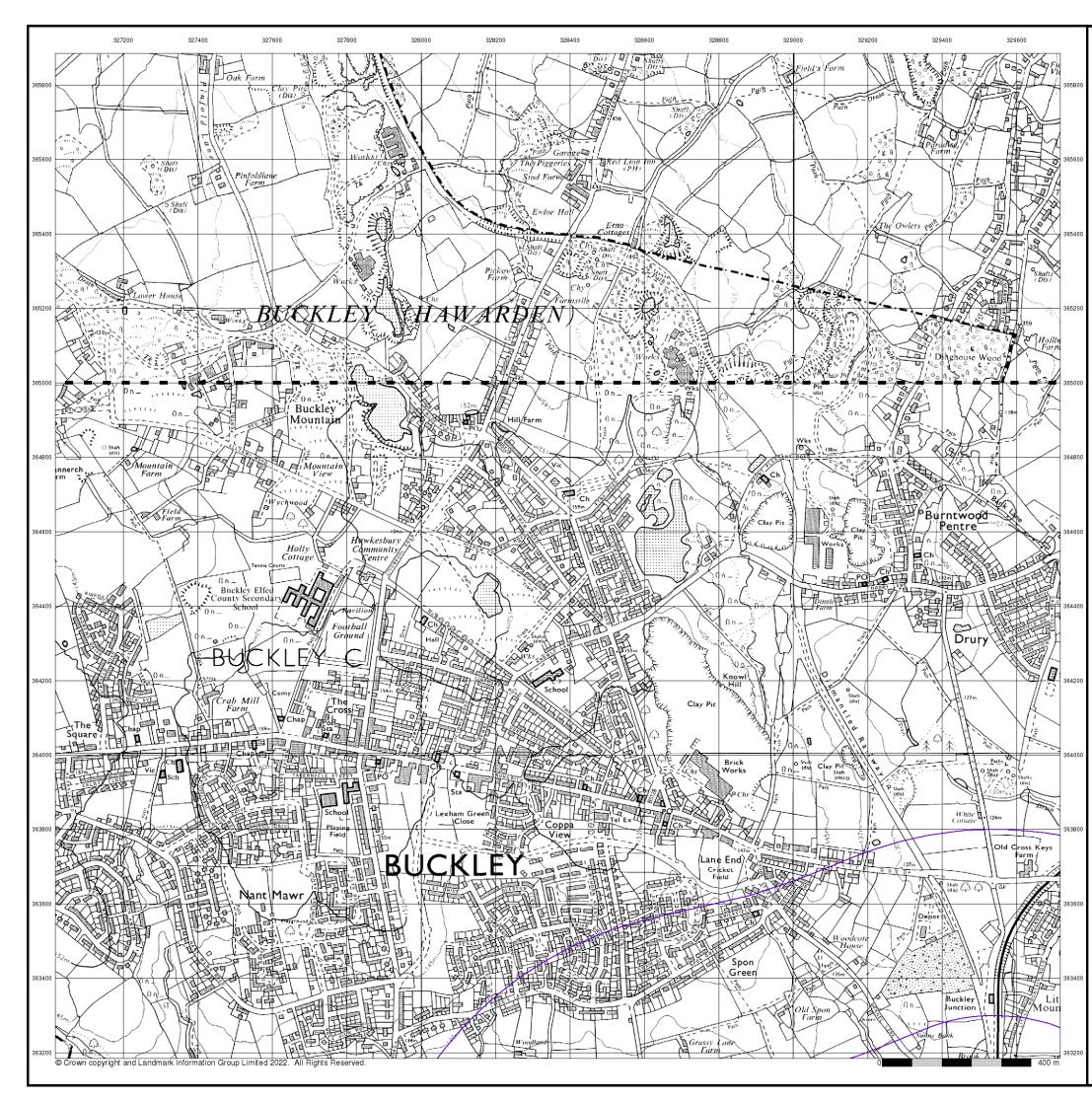






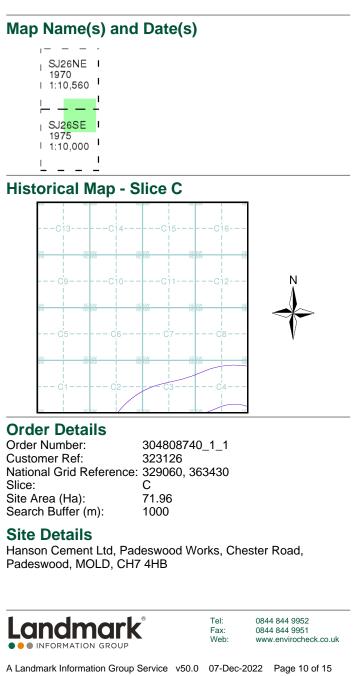


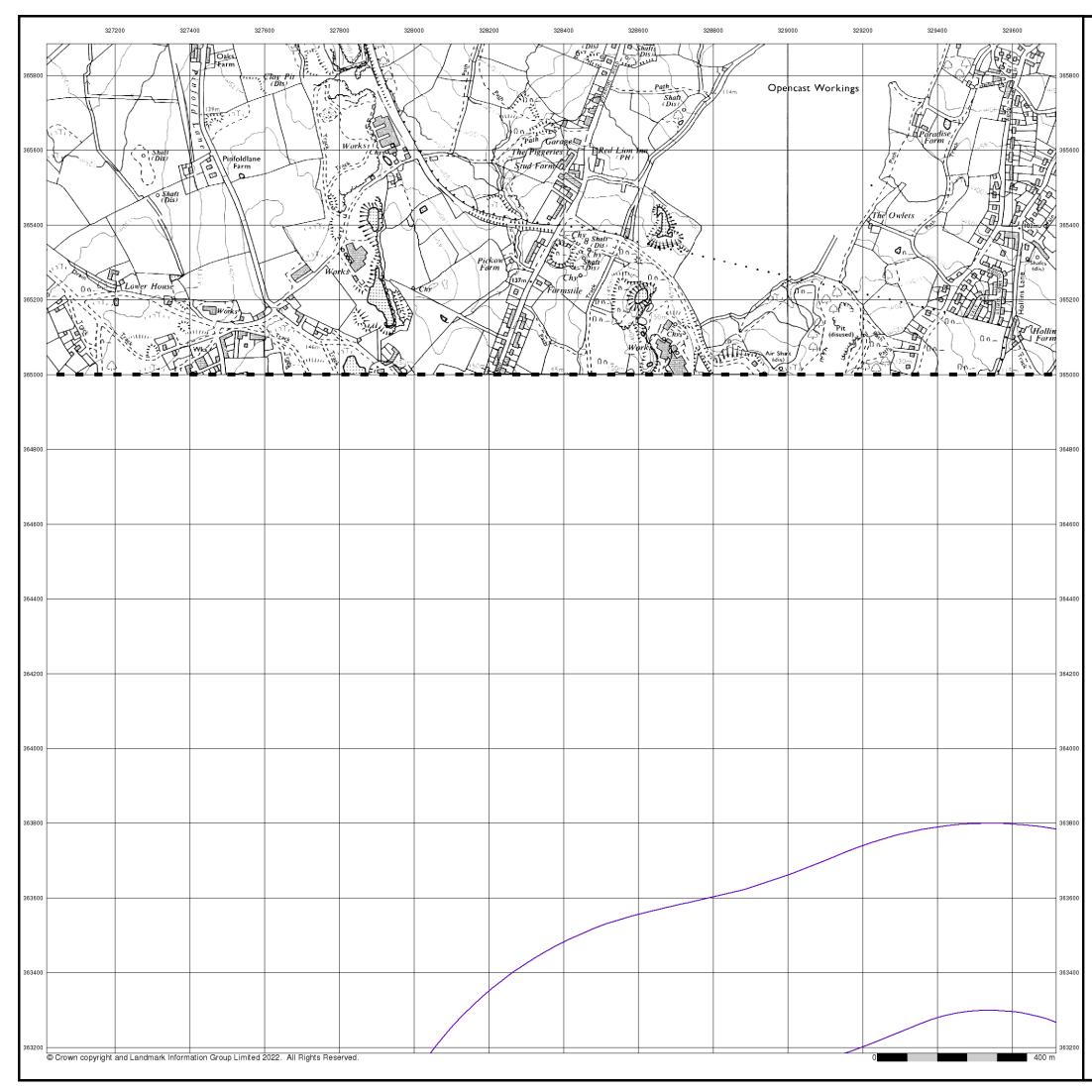






Ordnance Survey Plan Published 1970 - 1975 Source map scale - 1:10,000





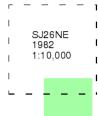


Published 1982

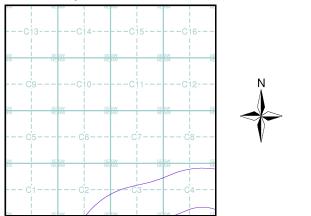
Source map scale - 1:10,000

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 until recently, with new editions appearing every 10 years or so for urban areas.





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

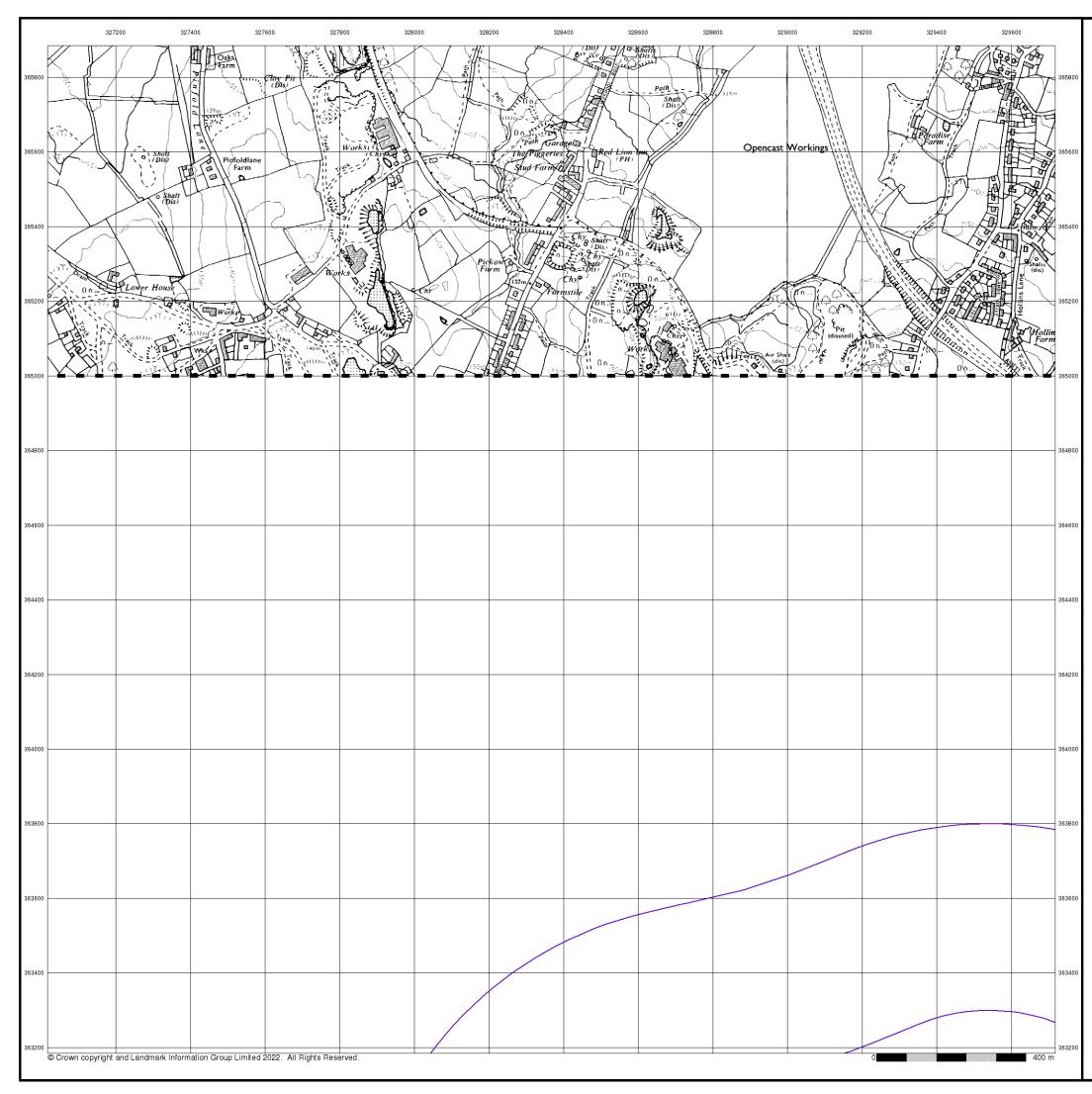
Site Details

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



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

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



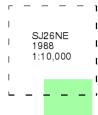


Ordnance Survey Plan Published 1988

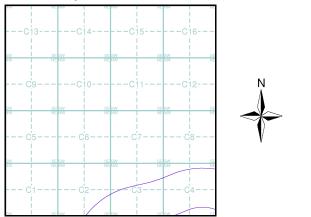
Source map scale - 1:10,000

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 C



Order Details

Order Number: 304808740_1_1 Customer Ref: 323126 National Grid Reference: 329060, 363430 Slice: С Site Area (Ha): Search Buffer (m): 71.96 1000

Site Details

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

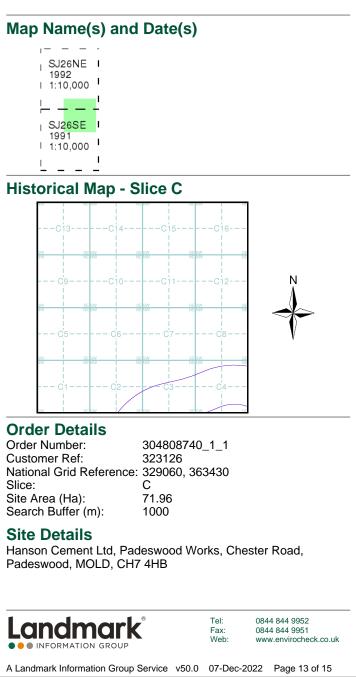








Ordnance Survey Plan Published 1991 - 1992 Source map scale - 1:10,000







Published 2000

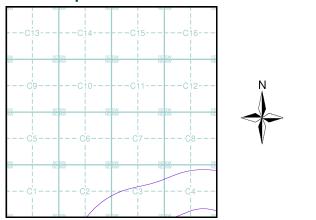
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

| SJ26NE | 2000 | 1:10,000 | | SJ26SE | 2000 | 1:10,000 |

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

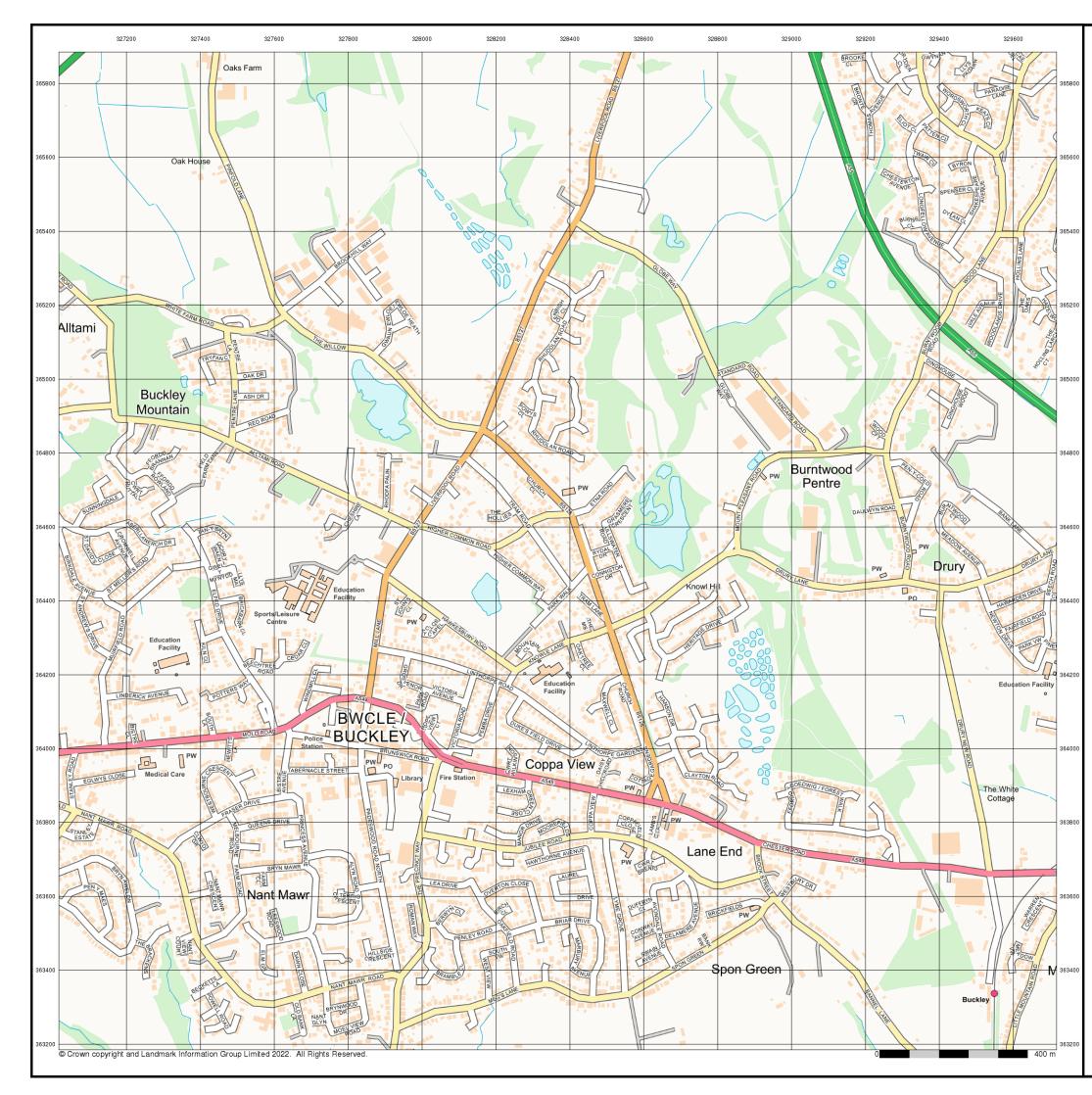
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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Street View

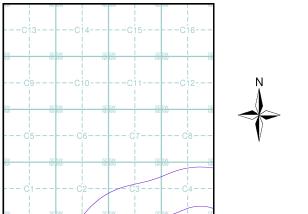
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice C



Order Details

Order Number: Customer Ref: National Grid Reference: 329060, 363430 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 С 71.96 1000

Site Details

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



Tel: Fax: Web:

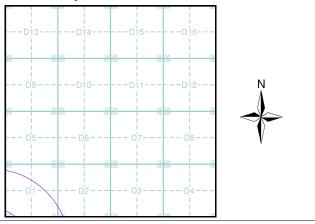
Historical Mapping Legends

Ordnance	Survey County S	eries 1:10,560	Or	dnance Surve	y Plan 1	:10,000		1:10,000 Ras	ster Mapp	bing
Grav Pit	vel Sand Pit	Other Manual Pits	Contraction of the second	Chalk Pit, Clay Pit or Quarry		🖕 Gravel Pit		Gravel Pit		Refuse tip or slag heap
C Quai	rry Shingle	••••••• ••••••• Orchard		Sand Pit	,, 	 Disused Pit or Quarry 		Rock		Rock (scattered)
^{**} ***** ********* *******************	ers	Marsh		Refuse or Slag Heap		Lake, Loch or Pond		Boulders	000 000	Boulders (scattered)
		1+7 2+5 +4°7 327 1+7 2+5 +4°7 327 1 +4°7 - 100		Dunes	° ° ° ° °	b Boulders	, , , , , , , , , , , , , , , , , , ,	Shingle	Mud	Mud
Mixed Woo	d Deciduous	Brushwood	* * *	Coniferous Trees	A 4 4	Non-Coniferous Trees	Sand	Sand		Sand Pit
			ф	Orchard ∩∩_	Scrub	\Y n ∕ Coppice	1111111	Slopes	للللللللل	Top of cliff Underground
Fir	Furze	Rough Pasture	ਜ ਜ ਜ	Bracken SMULL	Heath '	、,,,, Rough Grassland		General detail - Overhead detail		detail Narrow gauge railway
	rrow denotes م w of water	Trigonometrical Station	<u></u>	Marsh 、、、Y///	Reeds	<u>→_չ</u> Saltings		Multi-track railway		Single track railway
	ite of Antiquities 🔹 🛧	Bench Mark		Direct	tion of Flow of V	Water	_•_•	County boundary (England only)	•••••	Ci∨il, parish or community boundary
• Si	ump, Guide Post, ignal Post urface Level	Well, Spring, Boundary Post		Glasshouse		Sand		District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
Sketched	Instrume Contour	200		Sloping Masonry	Pylon — — 🗆 — · Pole	Electricity Transmission Line	۵ ^۵ **	Area of wooded vegetation Non-coniferous	۵۵ ۵۵	Non-coniferous trees Coniferous
Main Roads	Fenced Minor R	Roads Un-Fenced	Cutting				Q ↓	Coniferous trees (scattered)	** **	trees Positioned
	Sunken Road	Raised Road	⊔ Road '''∏ Under	//		⊨ Standard Gauge Single Track	* ج ج ج ج	Orchard	K K	tree Coppice or Osiers
All former and the second seco	Road over Railway	Railway over River				Siding, Tramway or Mineral Line → Narrow Gauge	پ پ ۱۲۰,	Rough Grassland	assilita	Heath
Constanting Constanting	Railway o∨er Road	Level Crossing		— Geographical Co	unty	· · · · · · · · · · · · · · · · · · ·	00_ 00_	Scrub	אַעַיר אווייר	Marsh, Salt Marsh or Reed
	Road over River or Canal	Road over Stream		Administrative Co or County of City Municipal Boroug		_	5	Water feature	← ←	Flow arrows
	Road over Stream			Burgh or District Borough, Burgh o Shown only when no	or County Cons		MHW(S)	Mean high water (springs)	MLW(S)	Mean low water (springs
	County Boundary (Geogra County & Civil Parish Bour	. ,		Civil Parish Shown alternately w	hen coincidence d	of boundaries occurs		Telephone line (where shown)	- • - • -	Electricity transmission li (with poles)
+· +· + ·+	Administrative County & C	-	Ch (Boundary Post or Stone Church	PO	Police Station Post Office	← BM 123.45 m	Bench mark (where shown)	Δ	Triangulation station
Co. Boro. Bdy.	County Borough Boundary County Burgh Boundary (S		F E Sta F	Club House Fire Engine Station Foot Bridge	PH	Public Convenience Public House Signal Box		Point feature (e.g. Guide Post or Mile Stone)	\boxtimes	Pylon, flare sta or lighting tow
Co. Burgh Bdy.		Joonanu)		Fountain Guide Post		Spring Telephone Call Box	•‡•	Site of (antiquity)		Glasshouse
yv. R.D. Bdy.	Rural District Boundary		MP M	/lile Post	TCP	Telephone Call Post				Important

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

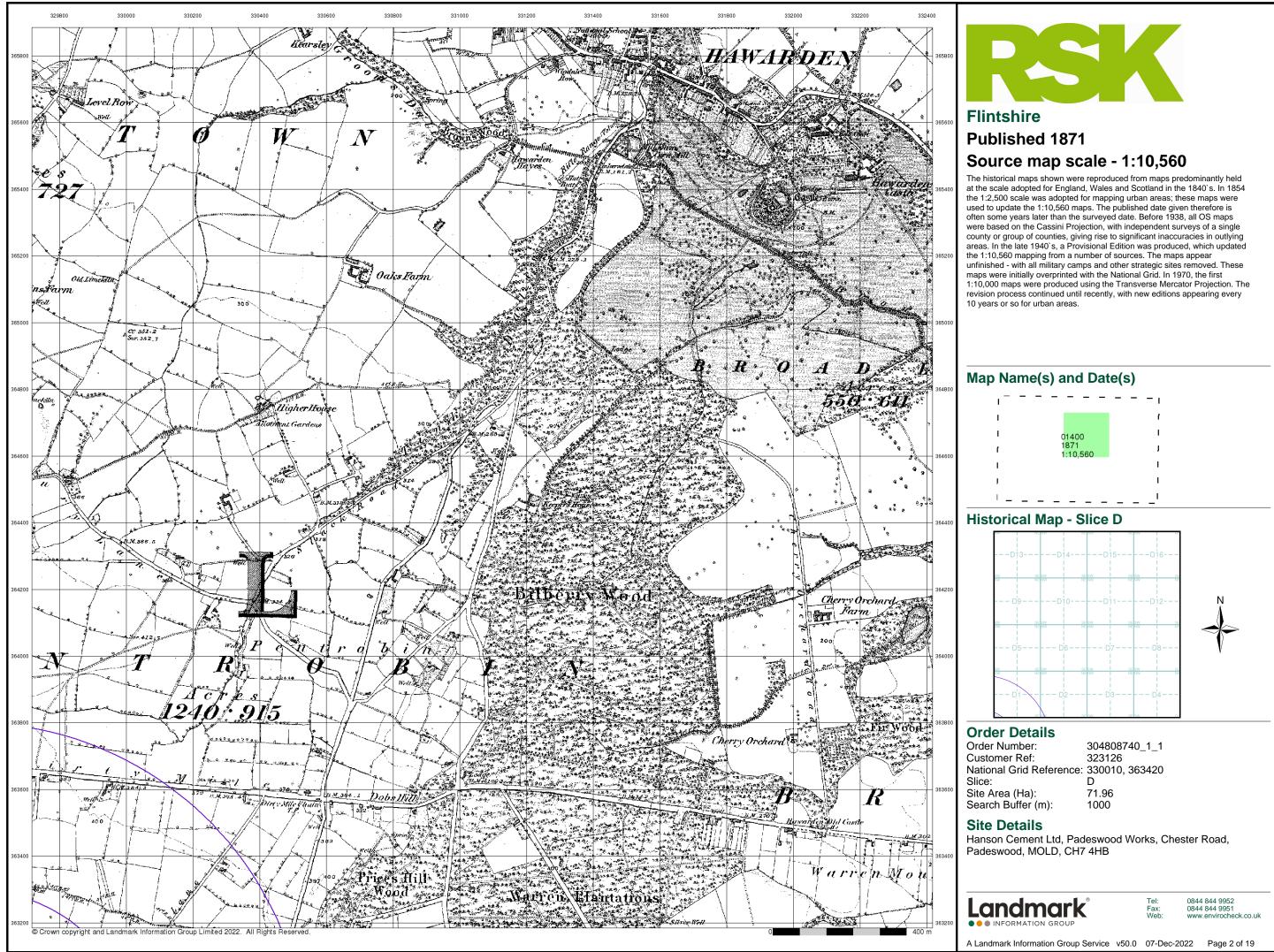
Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330010, 363420
Slice:	D
Site Area (Ha):	71.96
Search Buffer (m):	1000

Site Details

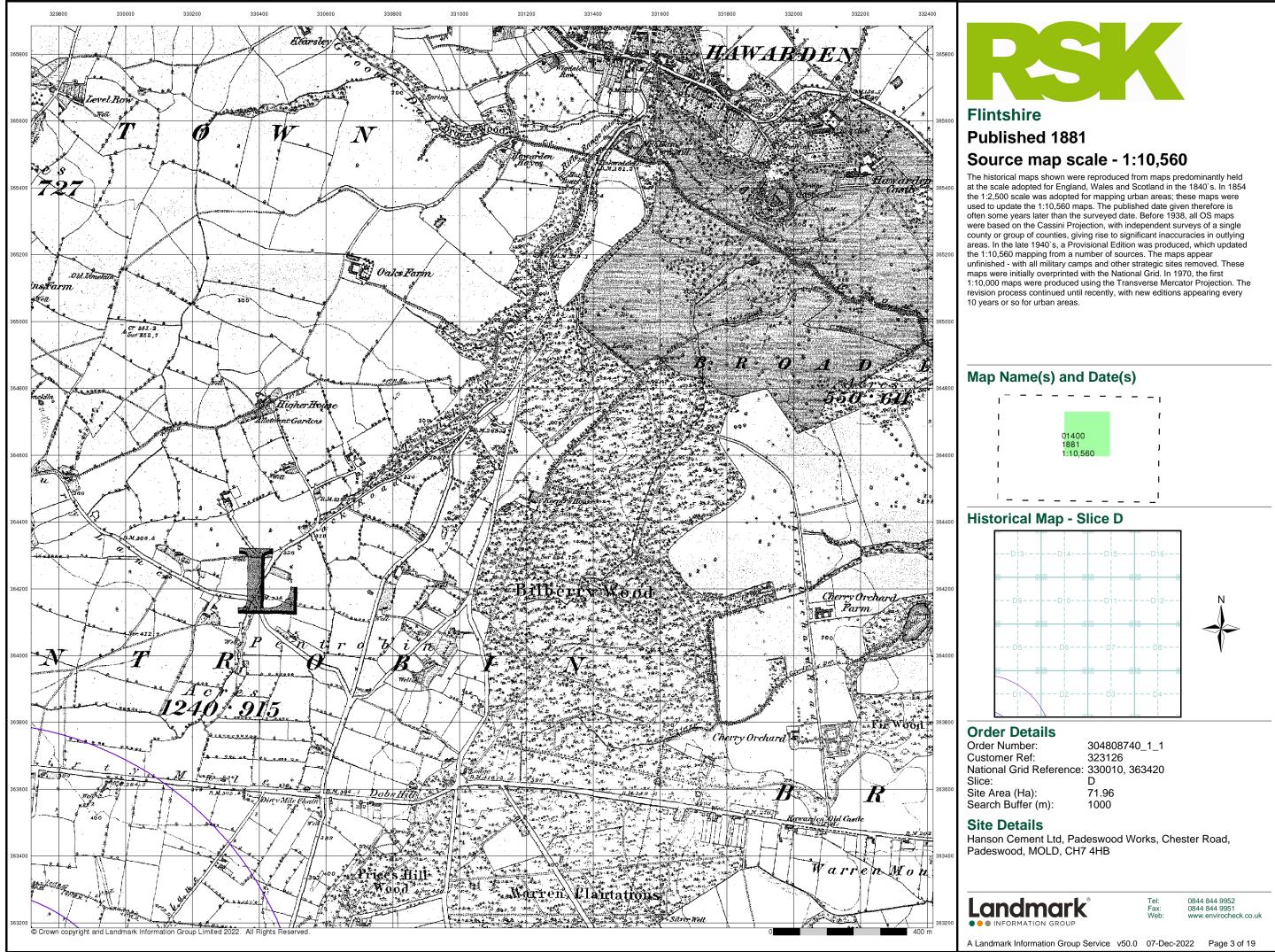
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



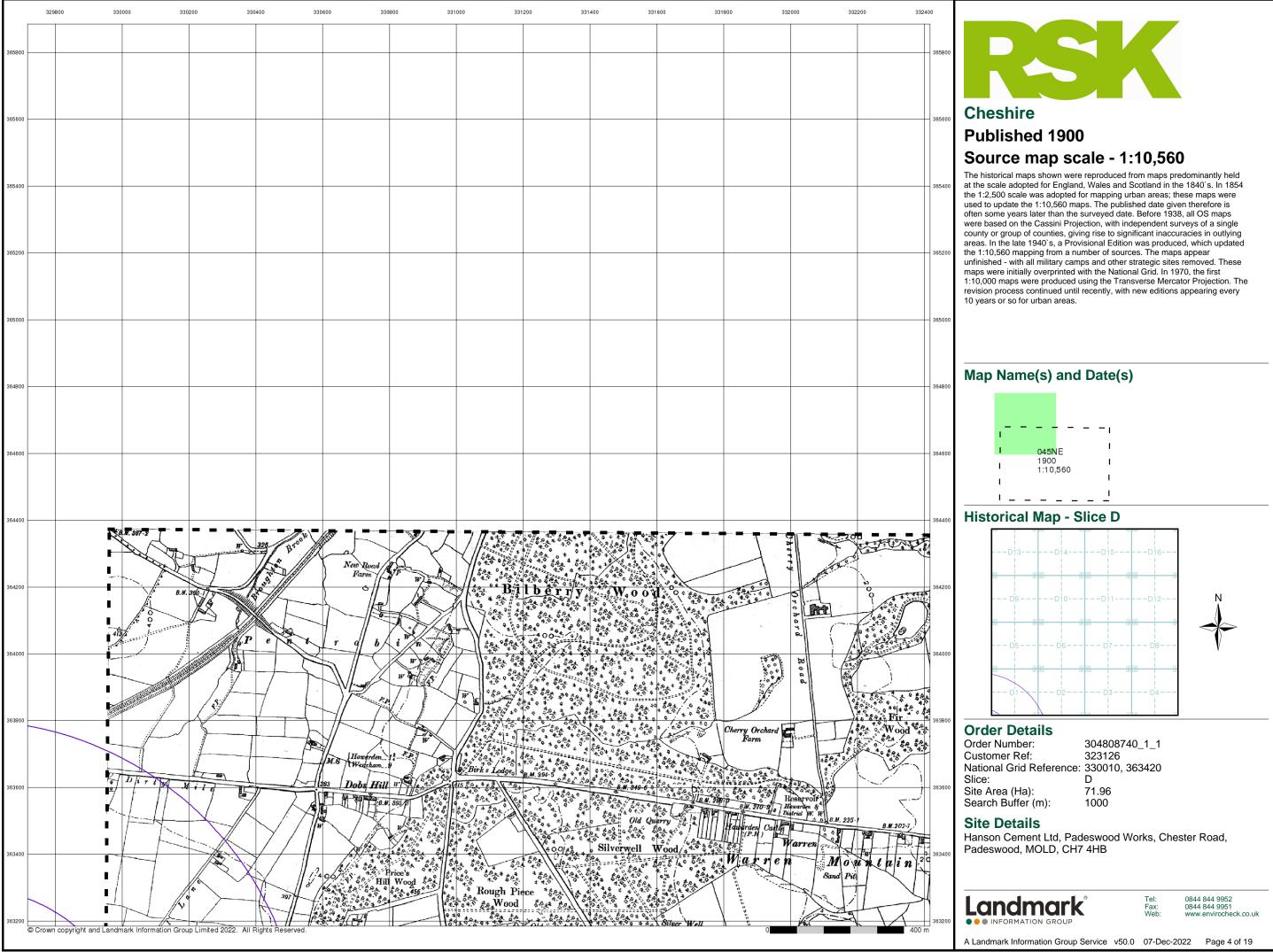
Tel: Fax: Web:



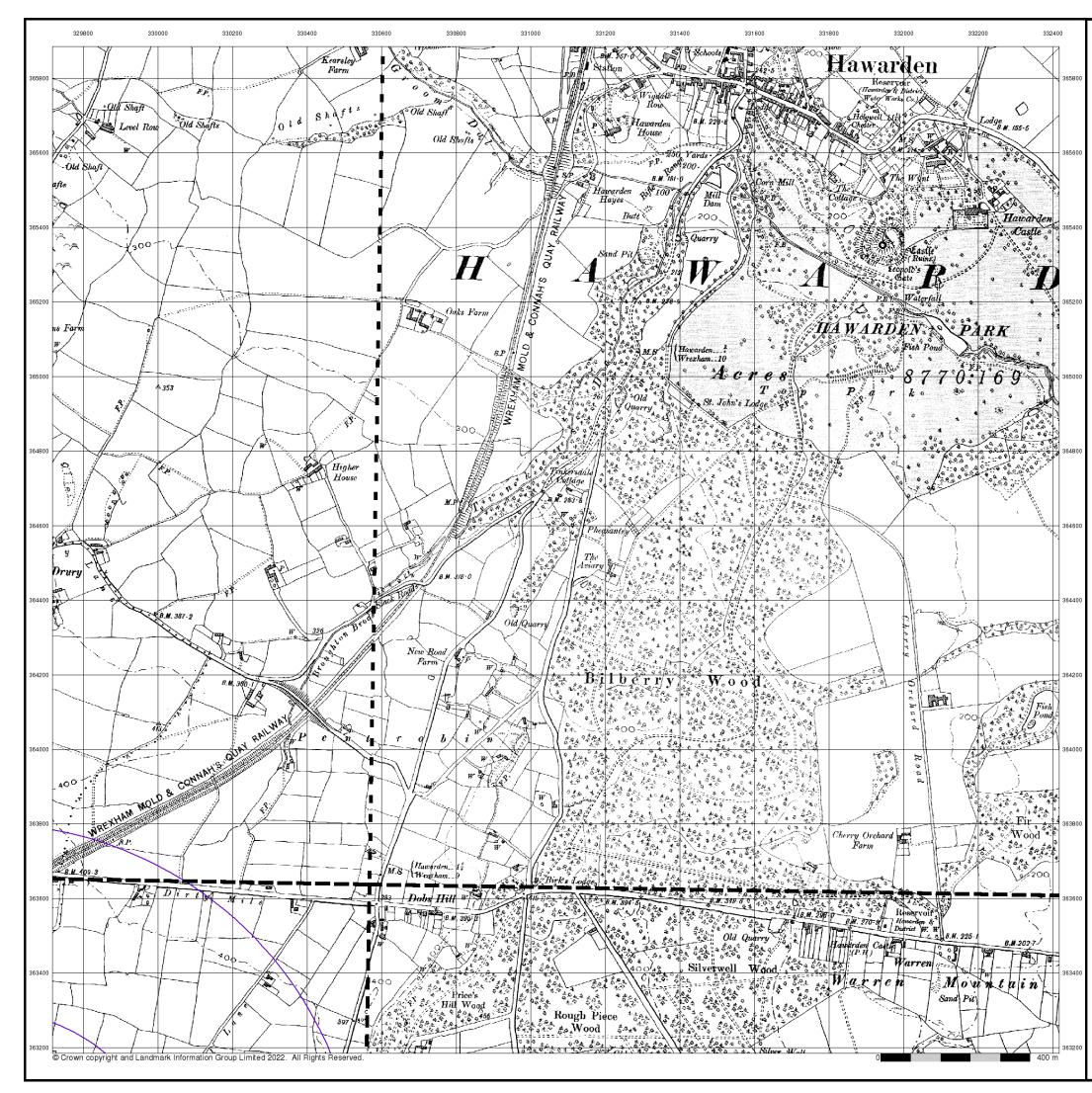






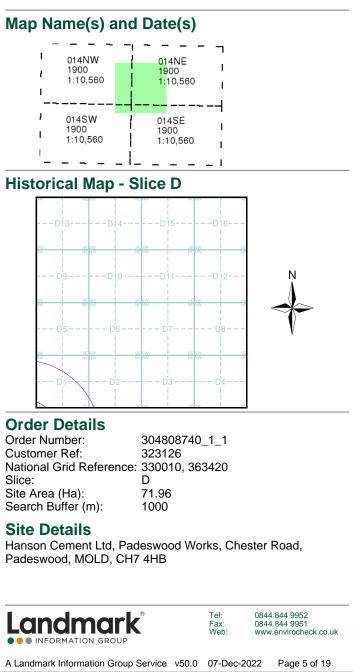


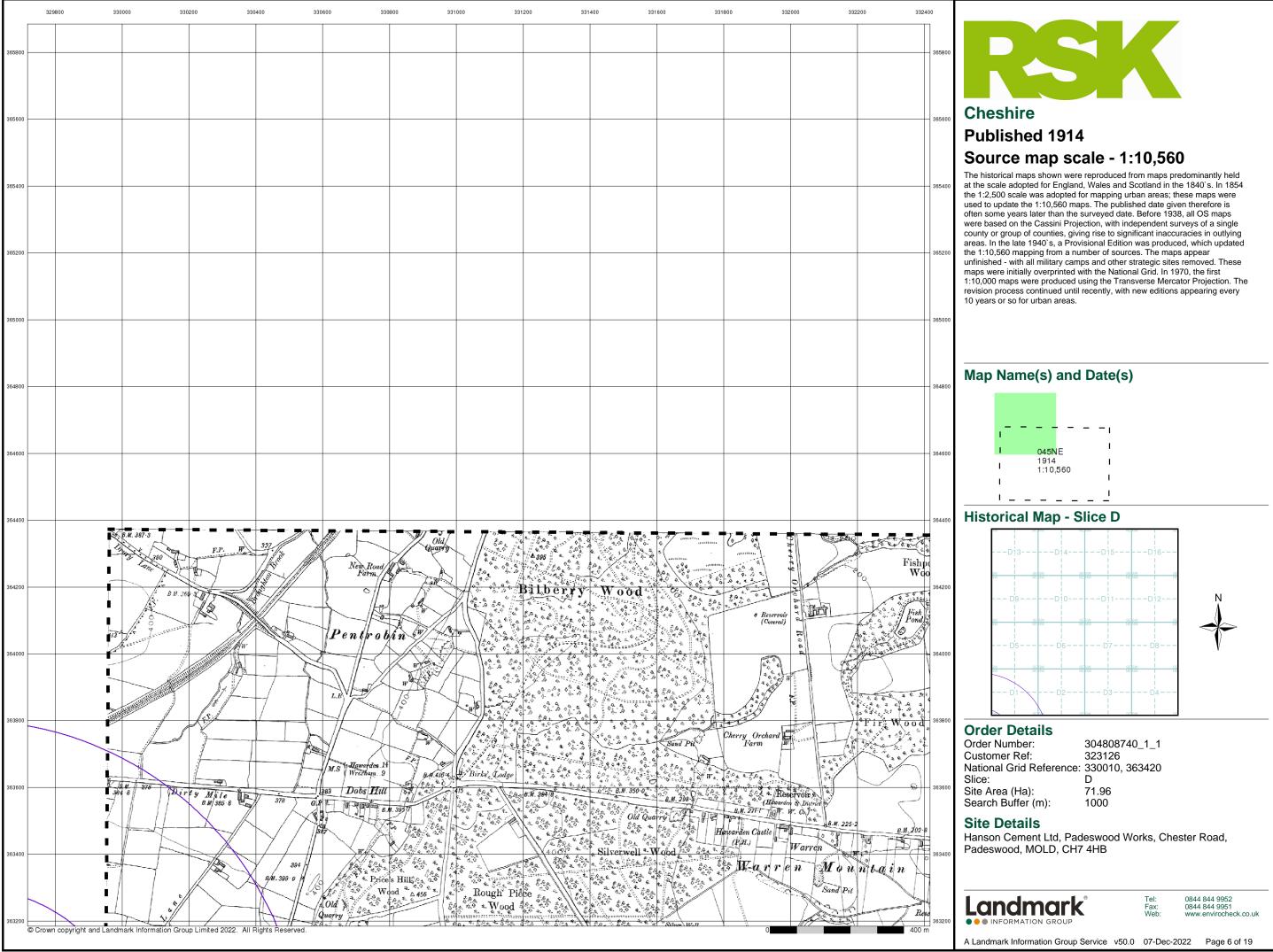




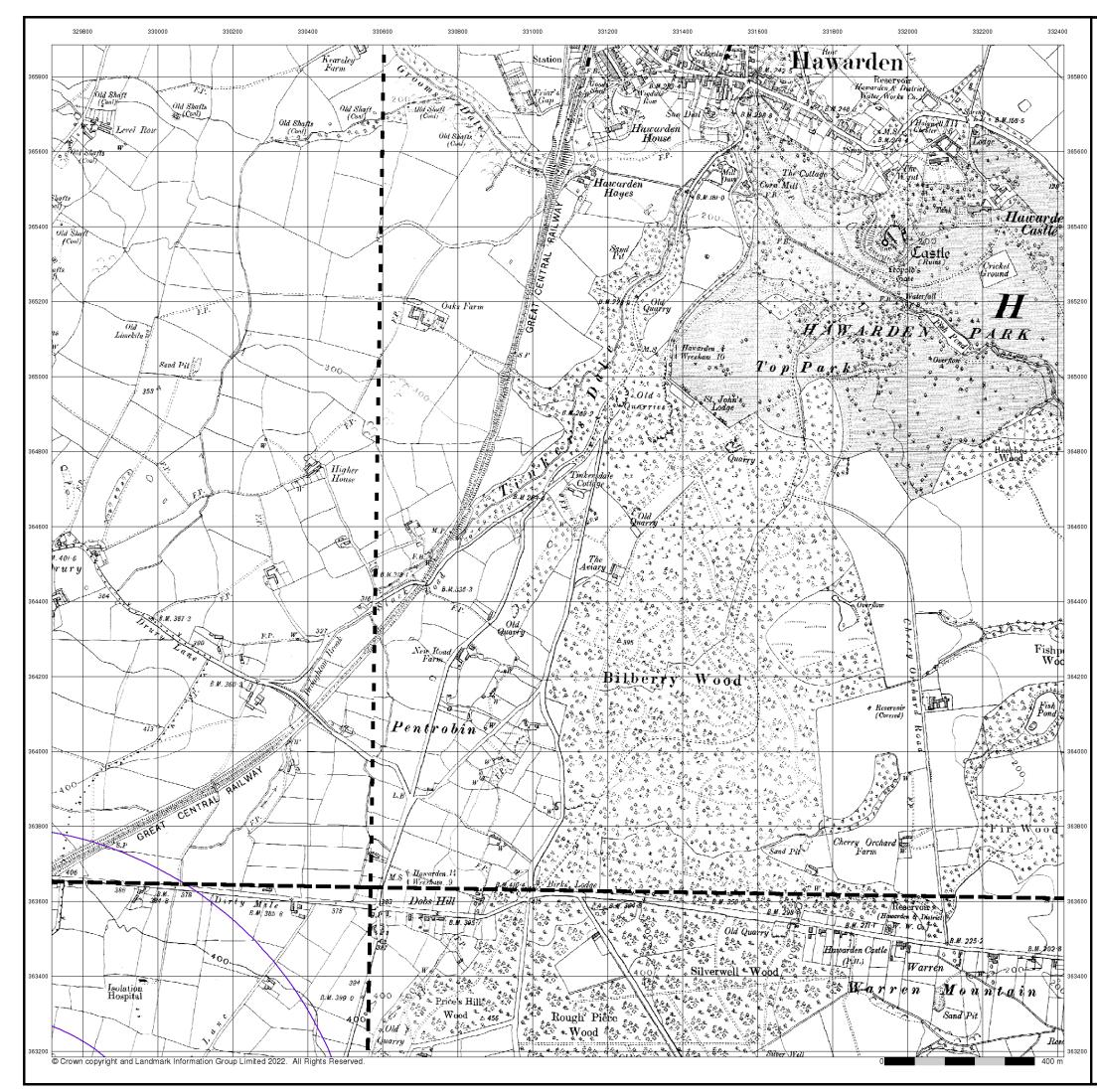


Published 1900 Source map scale - 1:10,560



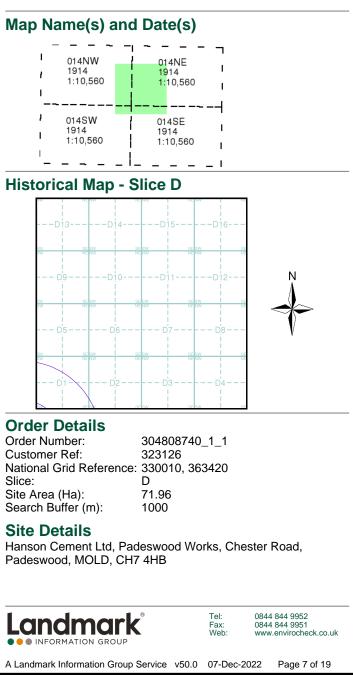


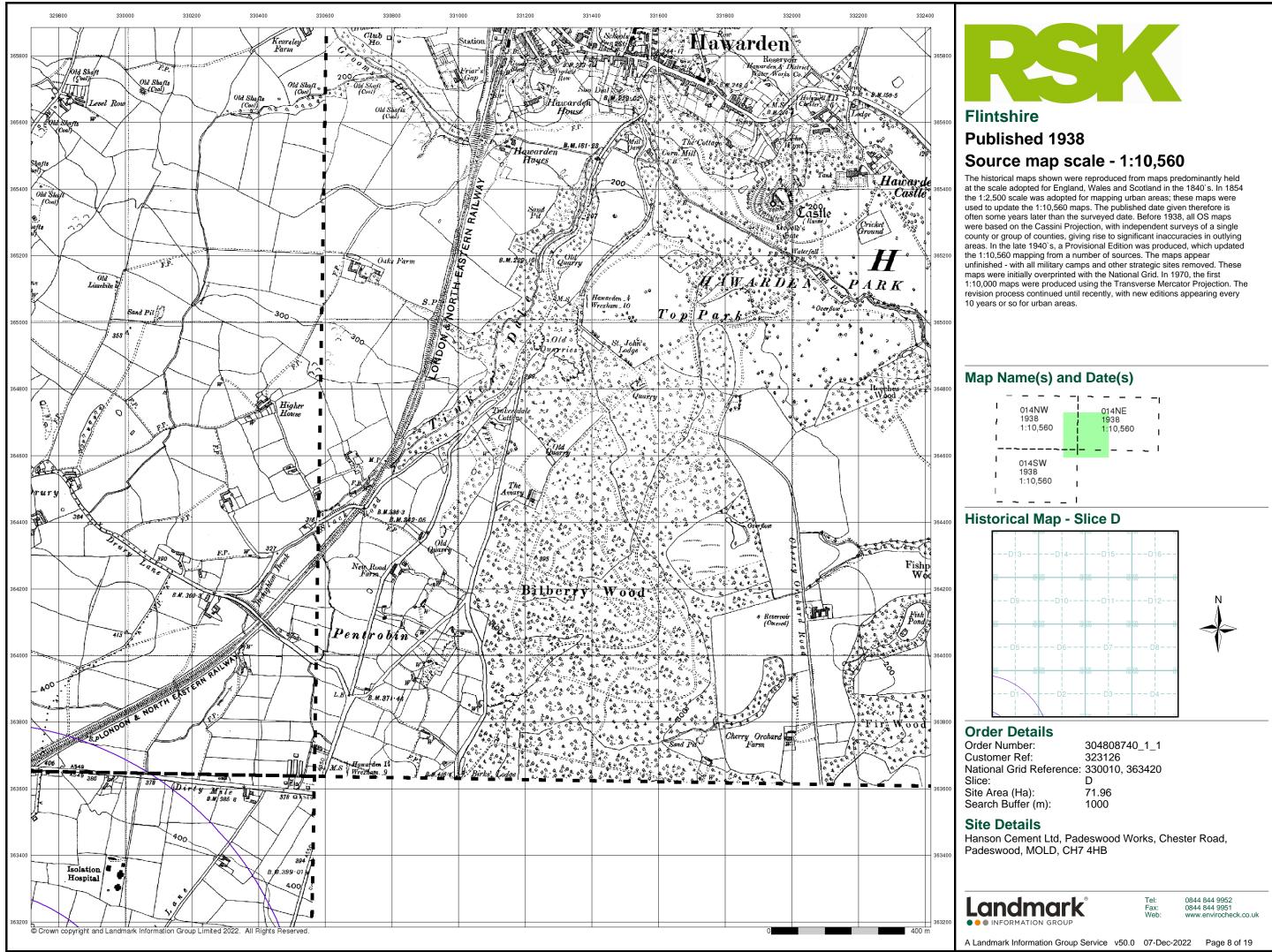




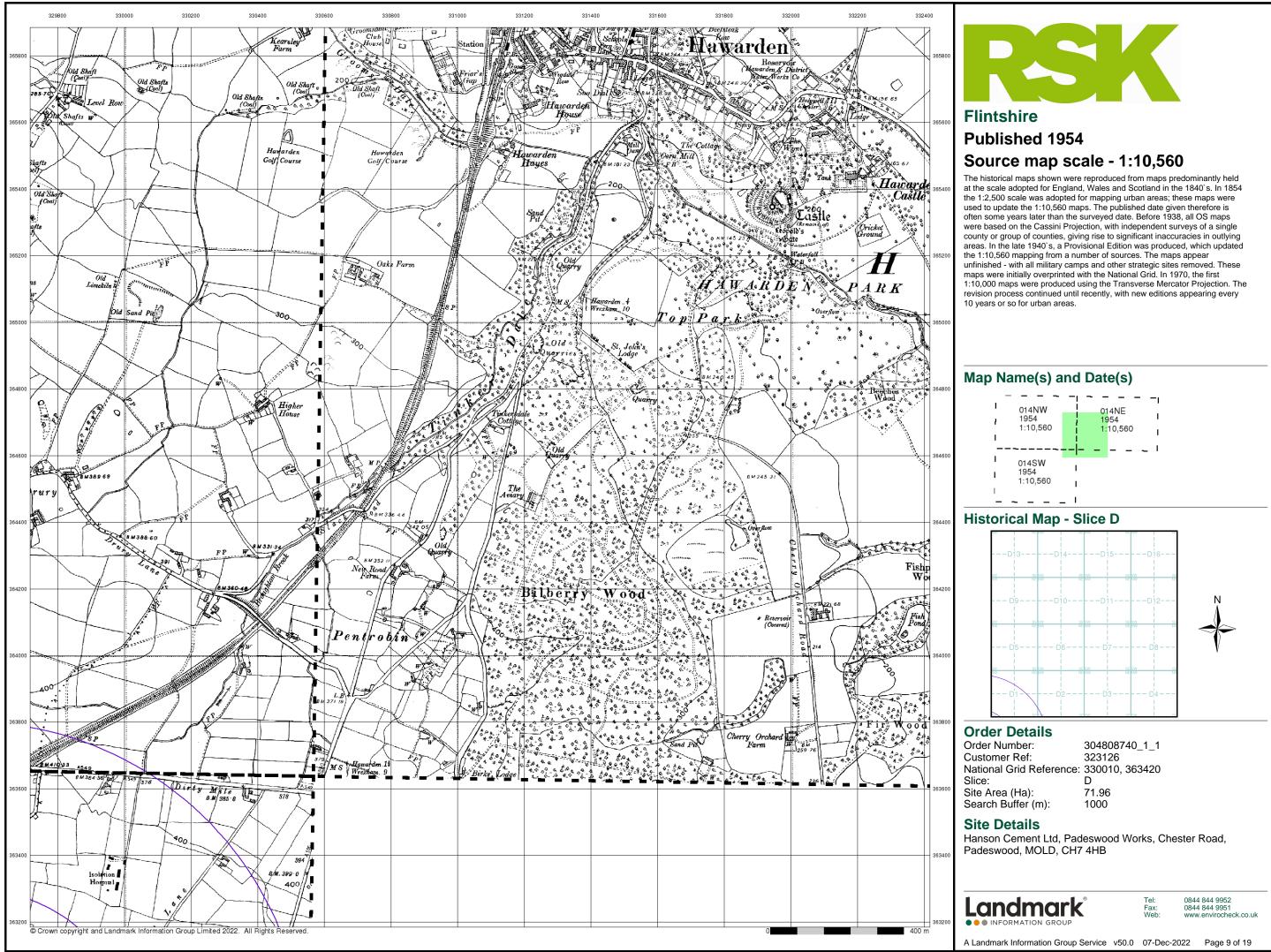


Published 1914 Source map scale - 1:10,560

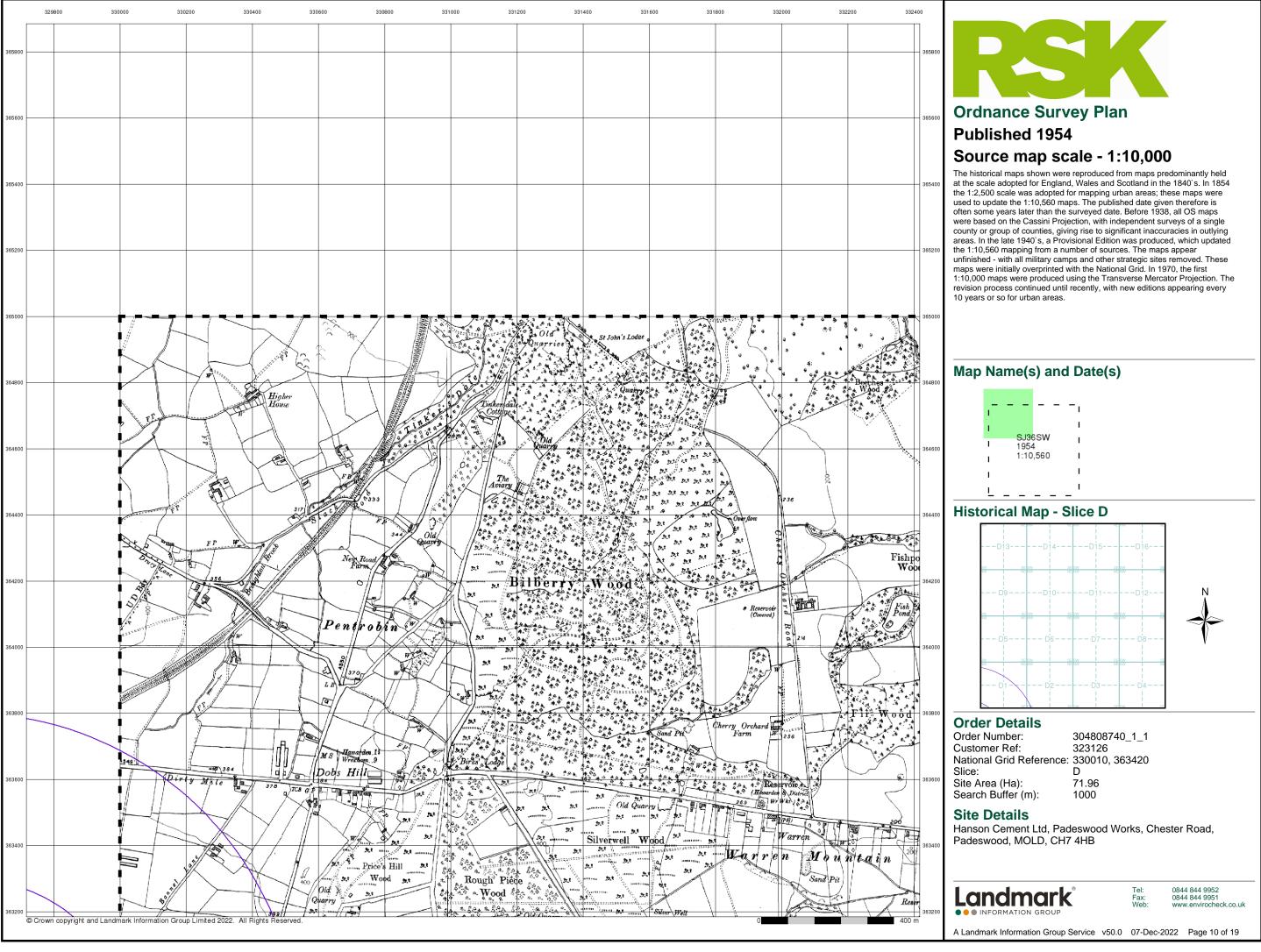




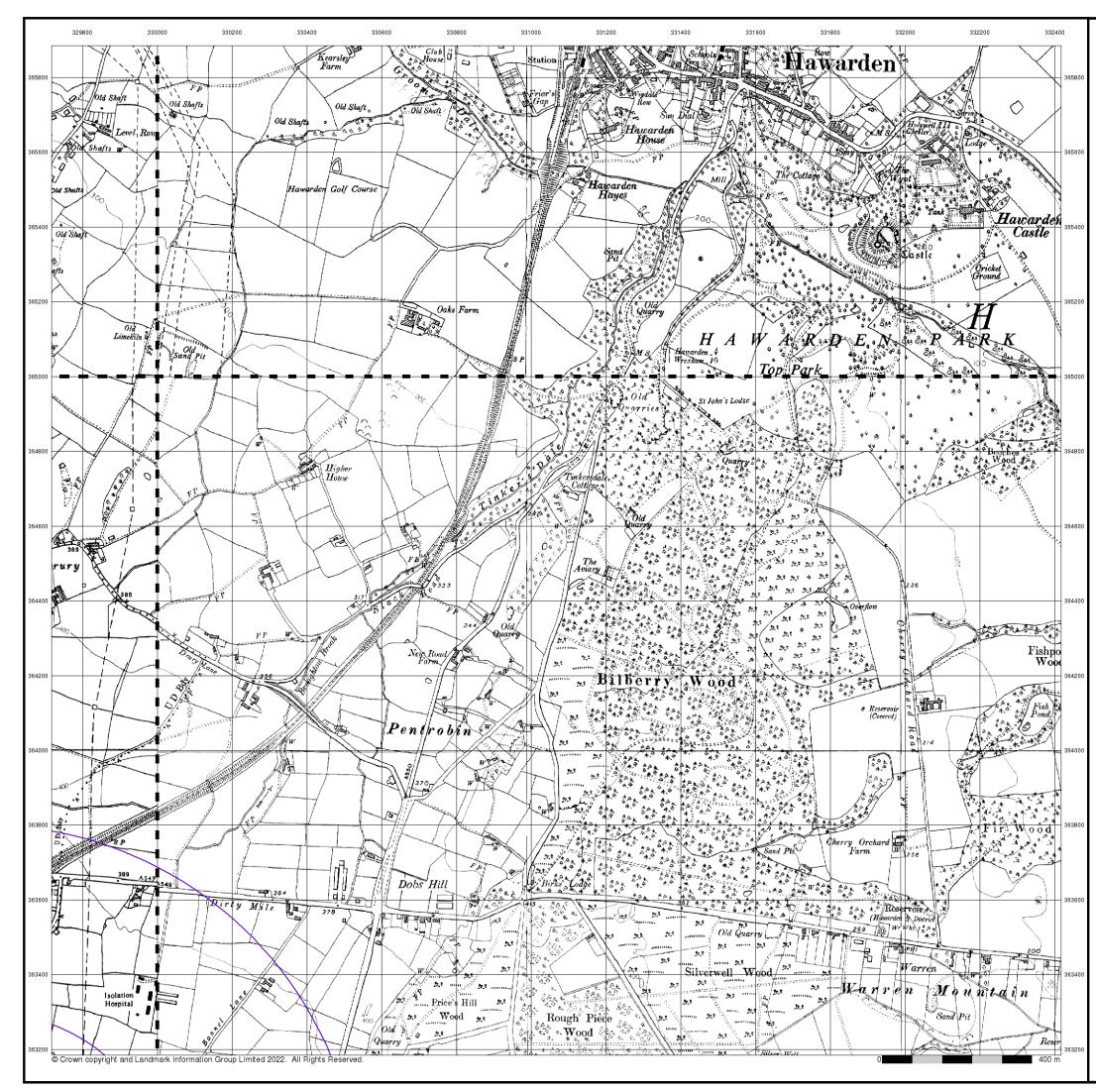














Ordnance Survey Plan Published 1963 - 1966 Source map scale - 1:10,000

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)

 SJ26NE
 SJ36NW
 I

 1963
 1963
 1110,560

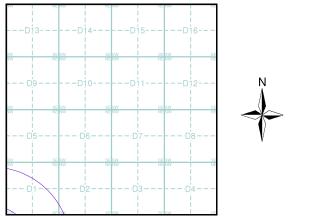
 1:10,560
 1:10,560
 1

 SJ26SE
 SJ36SW
 1

 1964
 1966
 1:10,560

 1:10,560
 1:10,560
 1

Historical Map - Slice D



Order Details

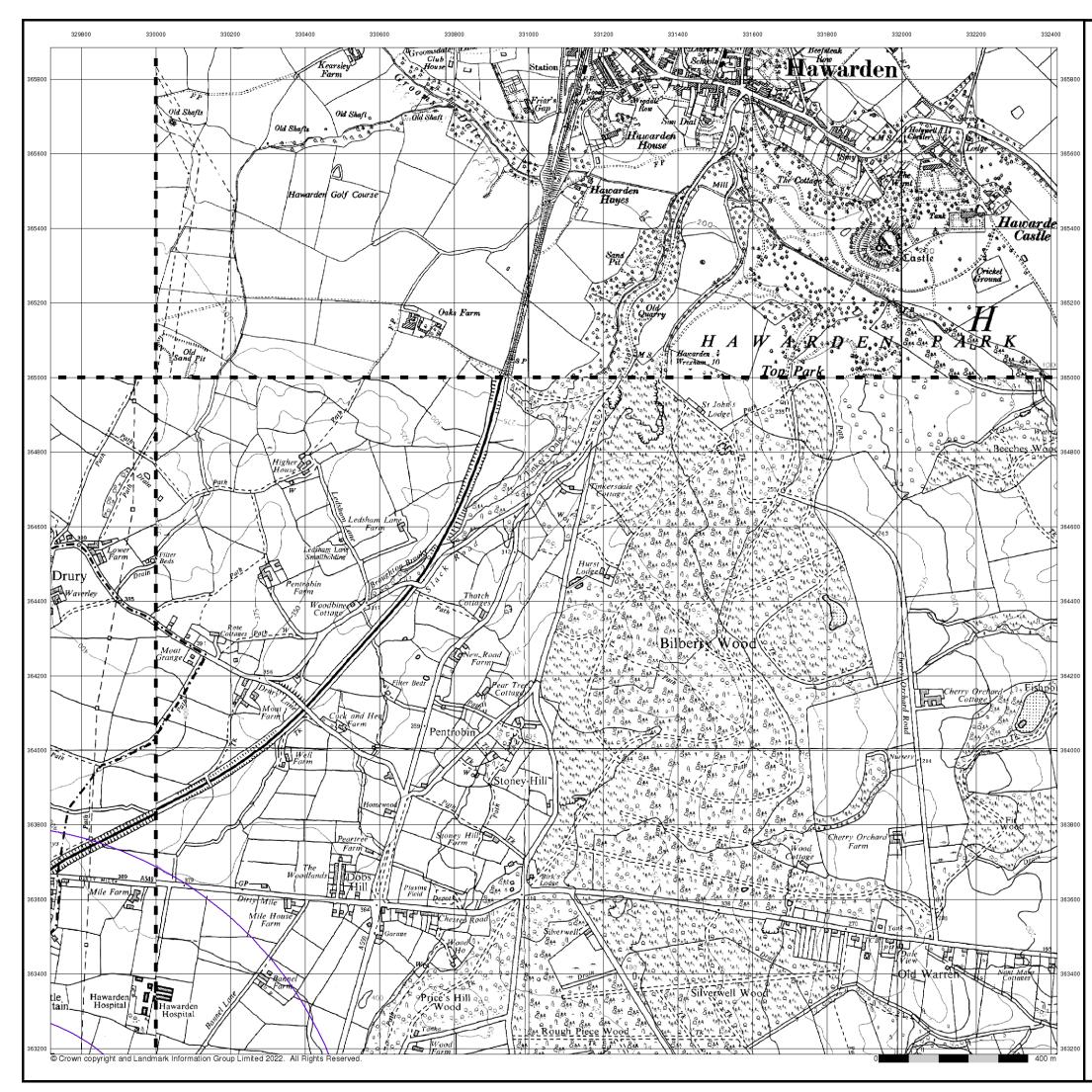
Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330010, 363420
Slice:	D
Site Area (Ha):	71.96
Search Buffer (m):	1000

Site Details

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





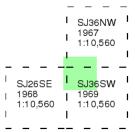




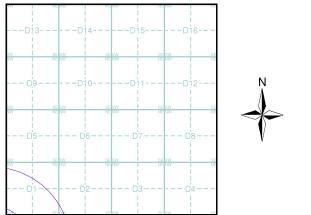
Ordnance Survey Plan Published 1967 - 1969 Source map scale - 1:10,000

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.





Historical Map - Slice D



Order Details

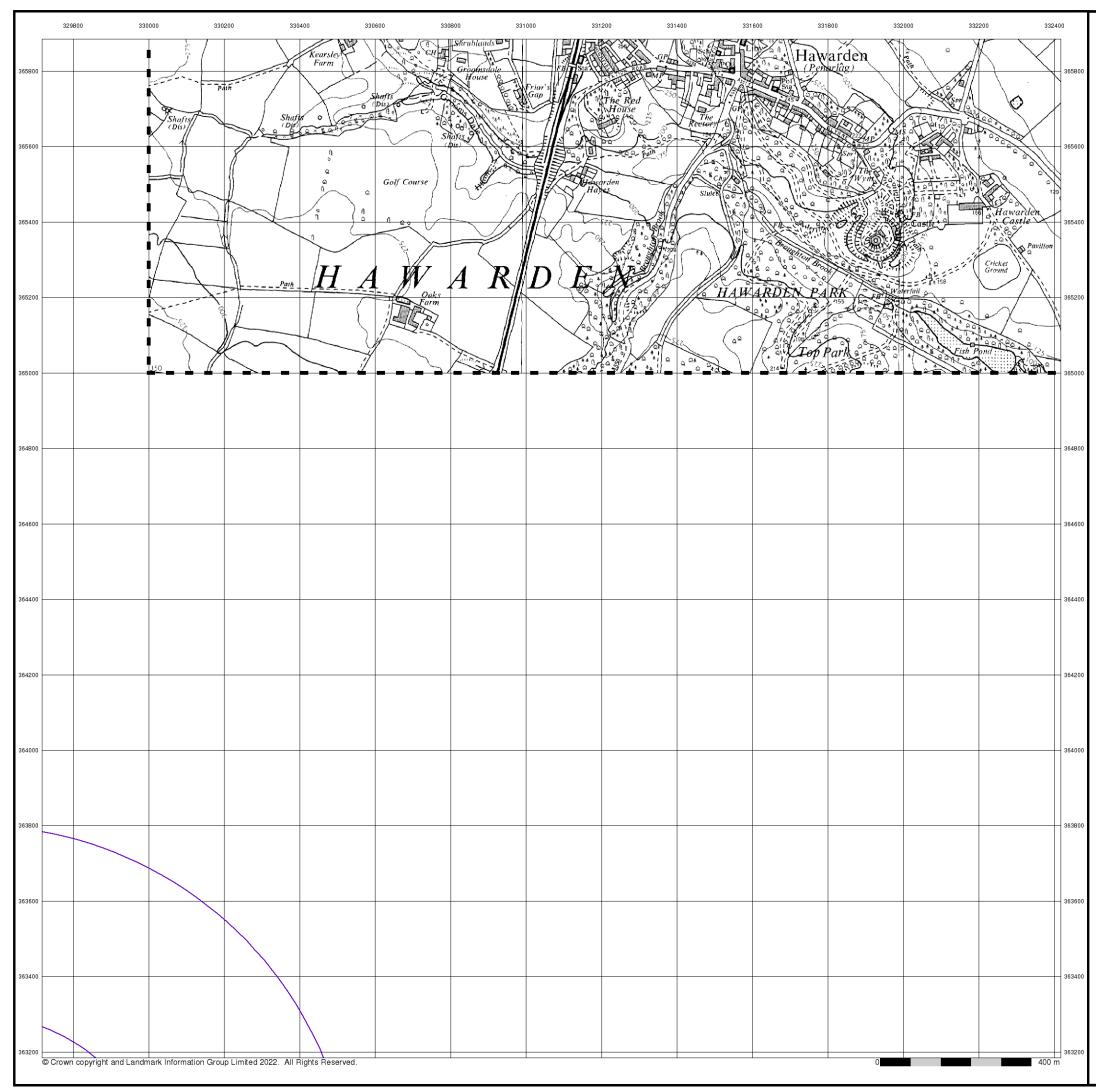
Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330010, 363420
Slice:	D
Site Area (Ha):	71.96
Search Buffer (m):	1000

Site Details

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



Tel: Fax: Web:



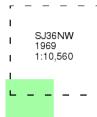


Published 1969

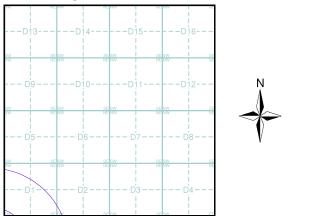
Source map scale - 1:10,000

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: Customer Ref: National Grid Reference: 330010, 363420 Slice: D Site Area (Ha): Search Buffer (m):

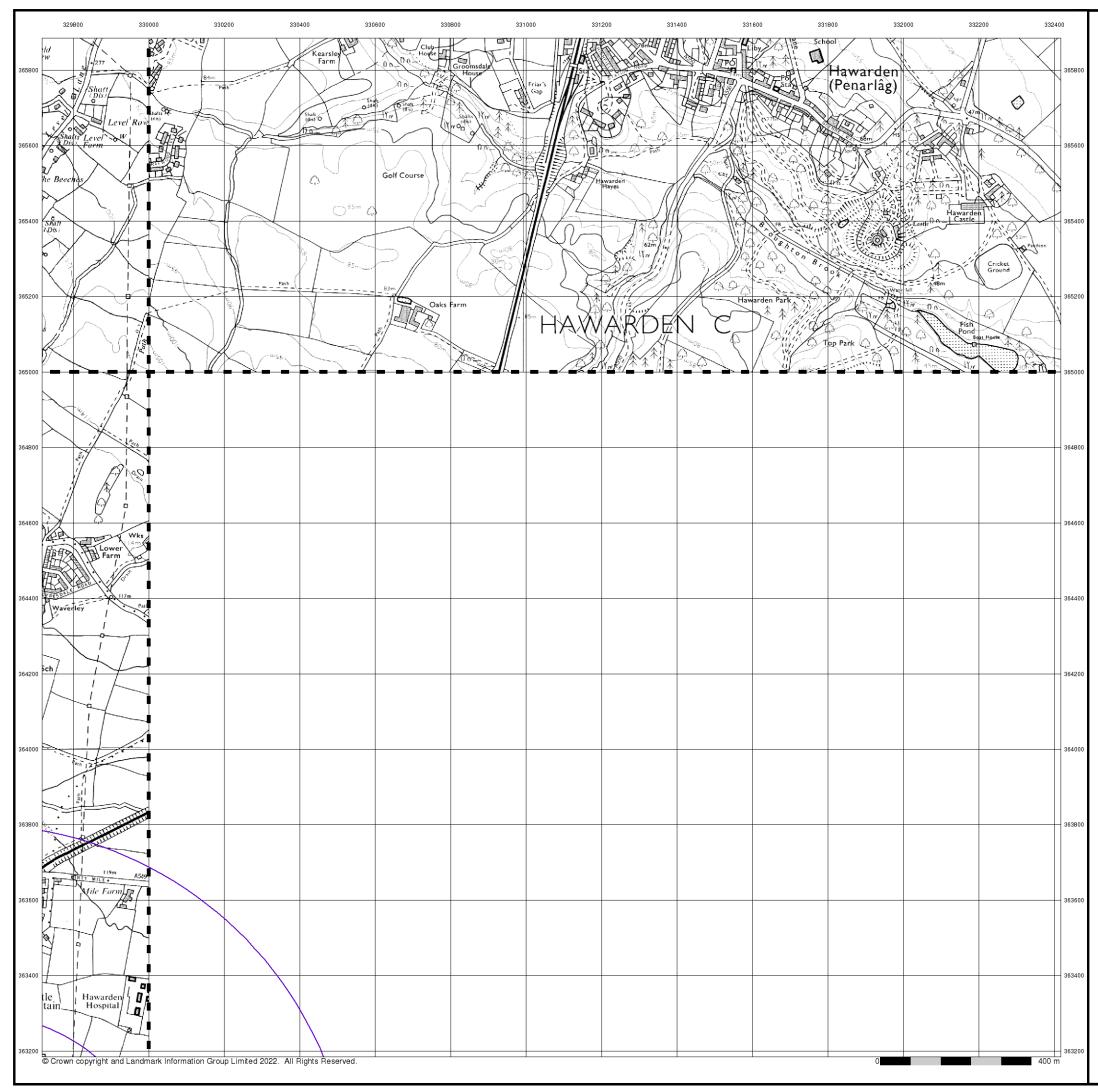
304808740_1_1 323126 71.96 1000

Site Details

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



Tel: Fax: Web:





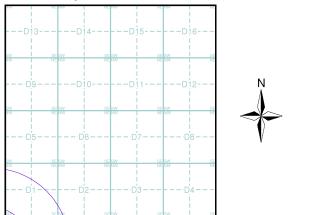
Ordnance Survey Plan Published 1970 - 1978 Source map scale - 1:10,000

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)

- SJ26NE SJ36NW 1970 | 1978 | 1:10,560 | 1:10,000 | 1 1 - 1 _ _ SJ26SE 1975
- 1:10,000 Т

Historical Map - Slice D



Order Details

Order Number: Customer Ref: National Grid Reference: 330010, 363420 Slice: D Site Area (Ha): 71.96 Search Buffer (m): 1000

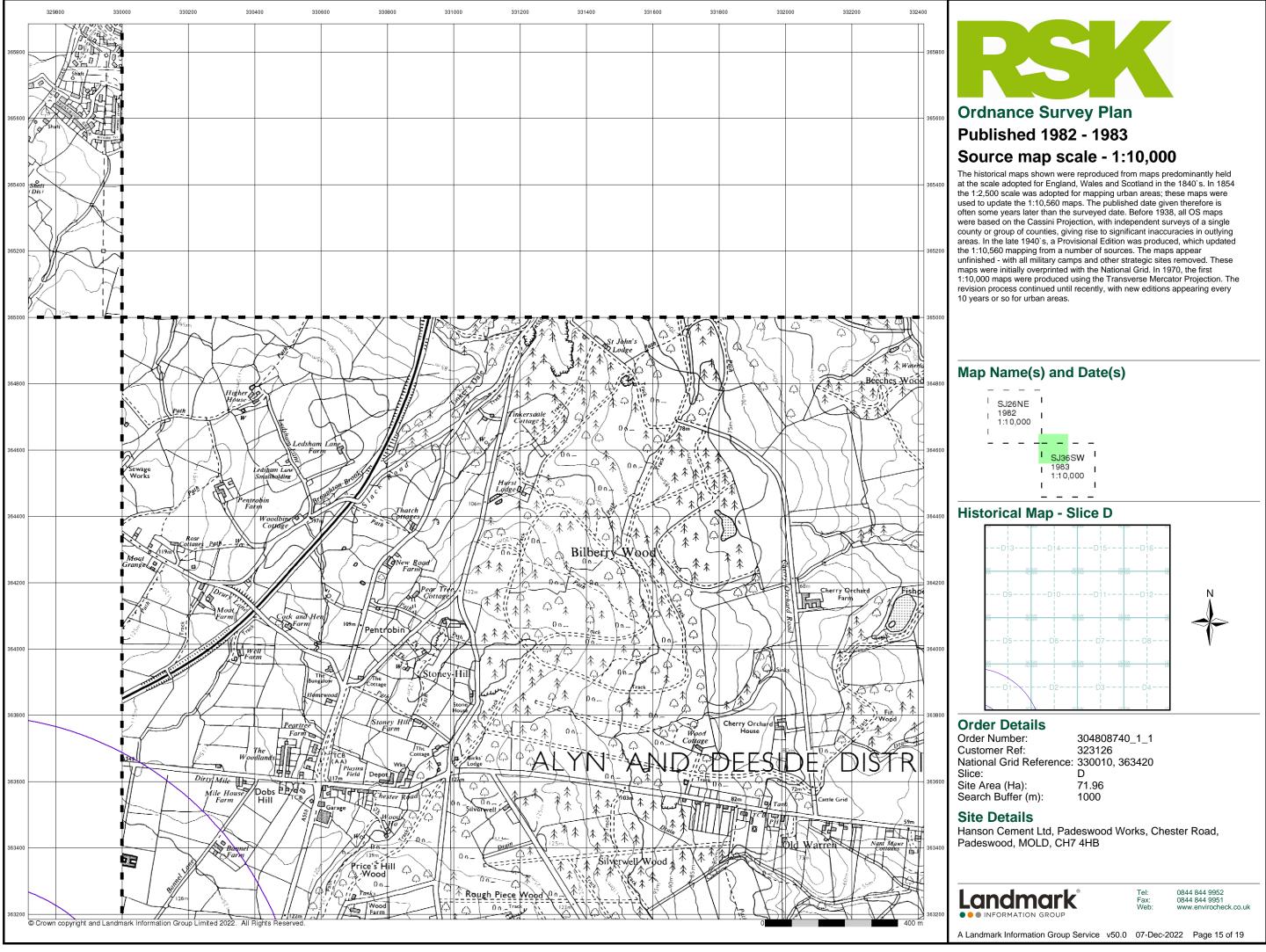
304808740_1_1 323126

Site Details

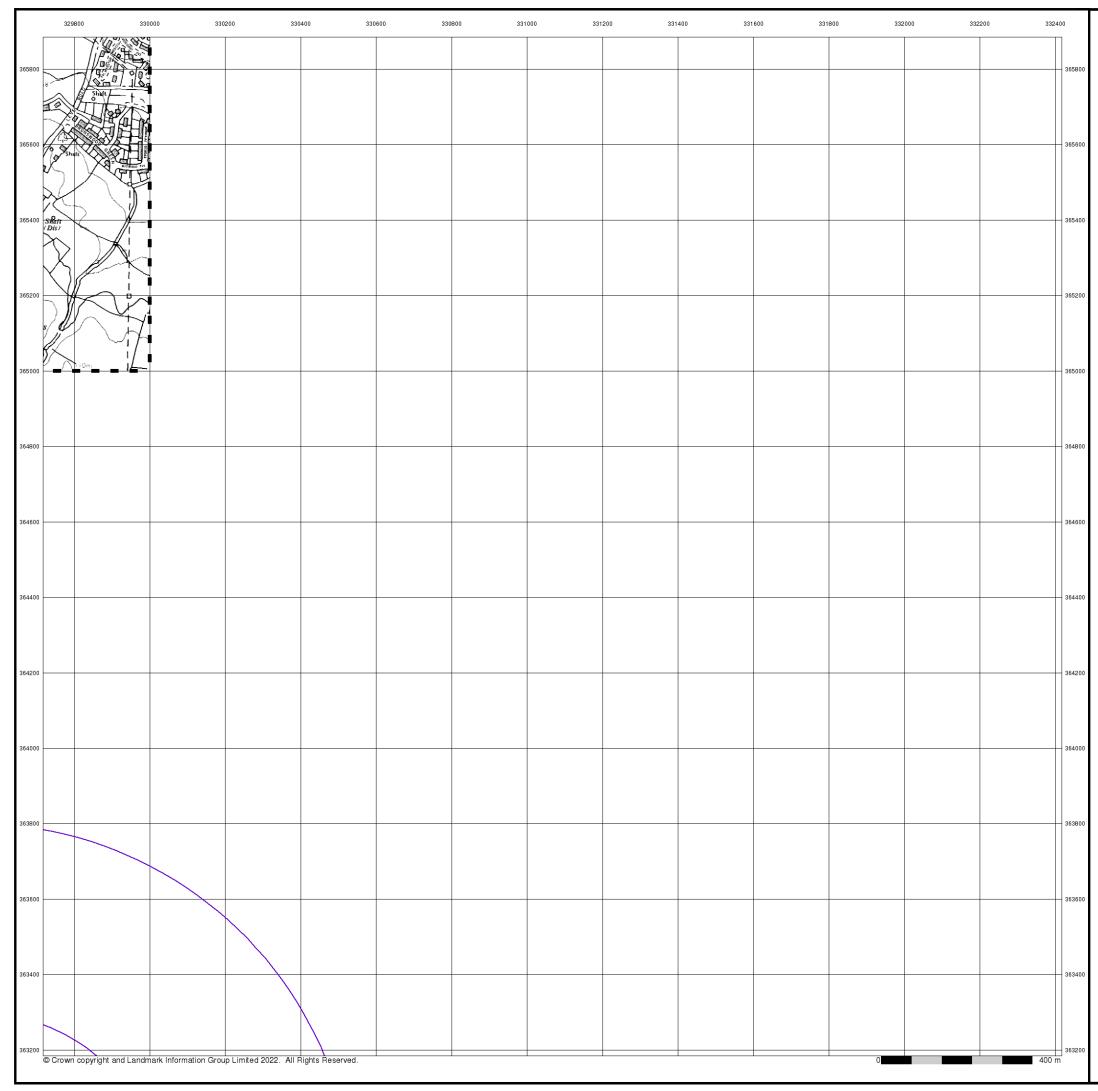
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



Tel: Fax: Web:









Published 1988

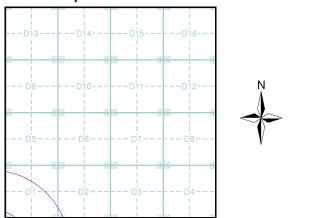
Source map scale - 1:10,000

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)

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L					I
I		SJ26 1988			I
L		1:10	,000,		I
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Historical Map - Slice D



Order Details

Order Number: Customer Ref: National Grid Reference: 330010, 363420 Slice: D Site Area (Ha): Search Buffer (m):

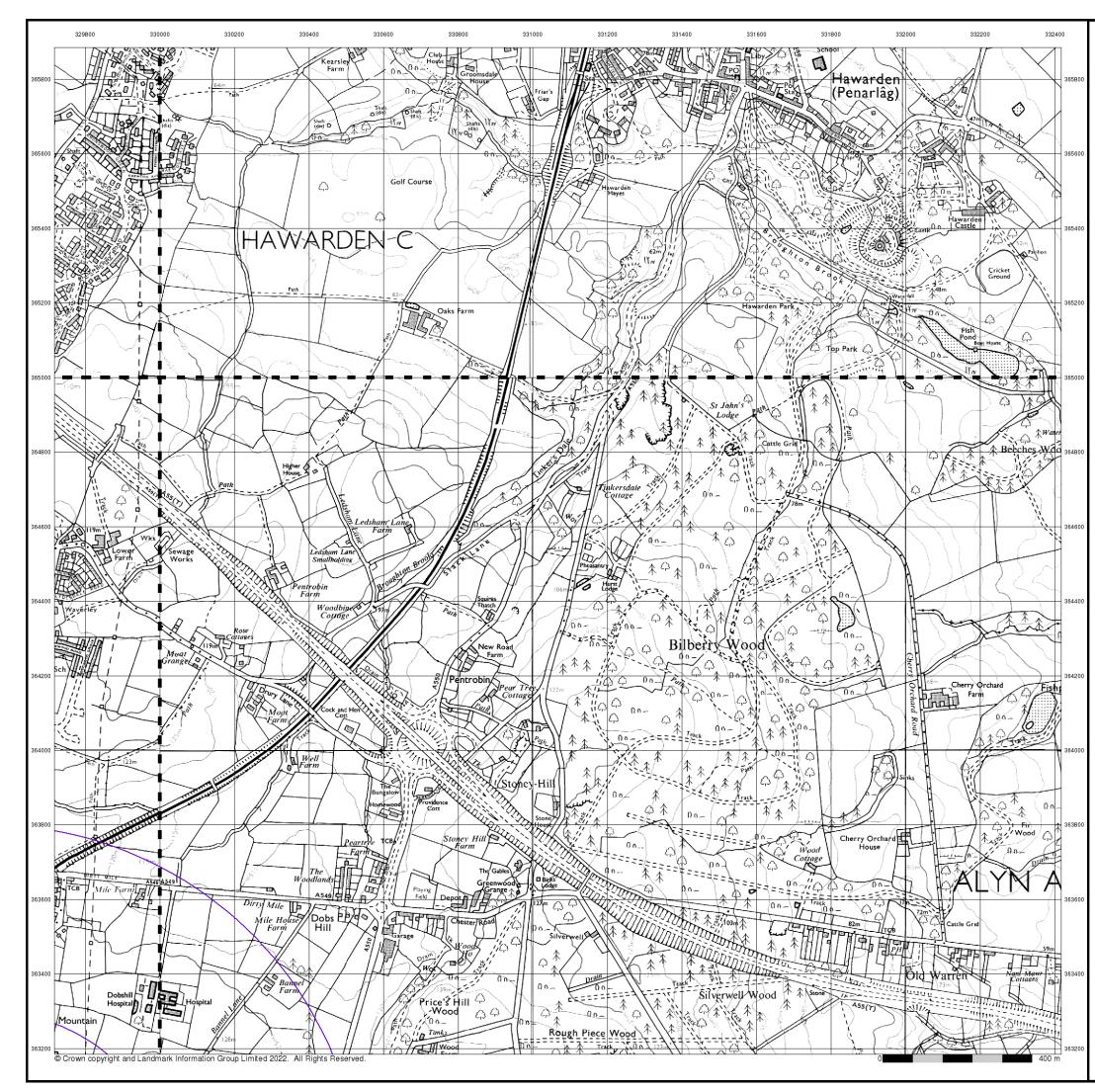
304808740_1_1 323126 71.96 1000

Site Details

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



Tel: Fax: Web:





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)

 SJ26NE
 SJ36NW

 1992
 1992

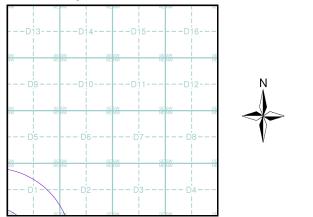
 1:10,000
 1:10,000

 SJ26SE
 SJ36SW

 1991
 1991

 1:10,000
 1:10,000

Historical Map - Slice D



Order Details

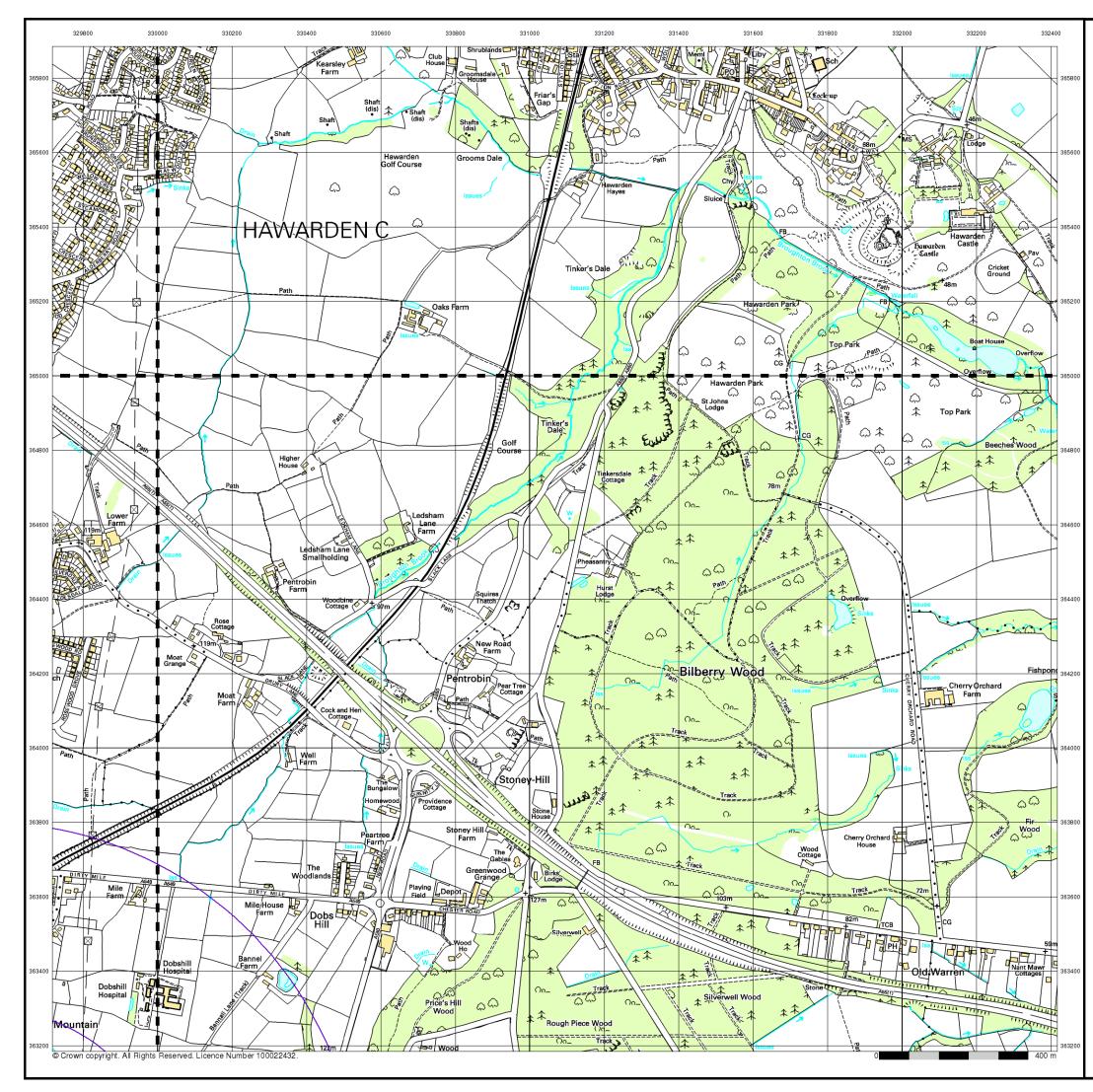
Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330010, 363420
Slice:	D
Site Area (Ha):	71.96
Search Buffer (m):	1000

Site Details

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



Tel: Fax: Web:





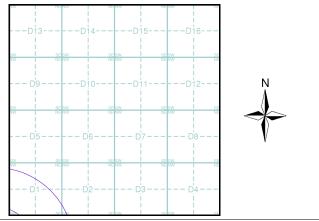
10k Raster Mapping Published 1999 - 2000 Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ26NE	I SJ36NW I
2000 1:10,000	2000 1:10,000
	1 I
SJ26SE	I SJ36SW I
2000 1:10,000	1999 1:10.000
1.10,000	1 10,000

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

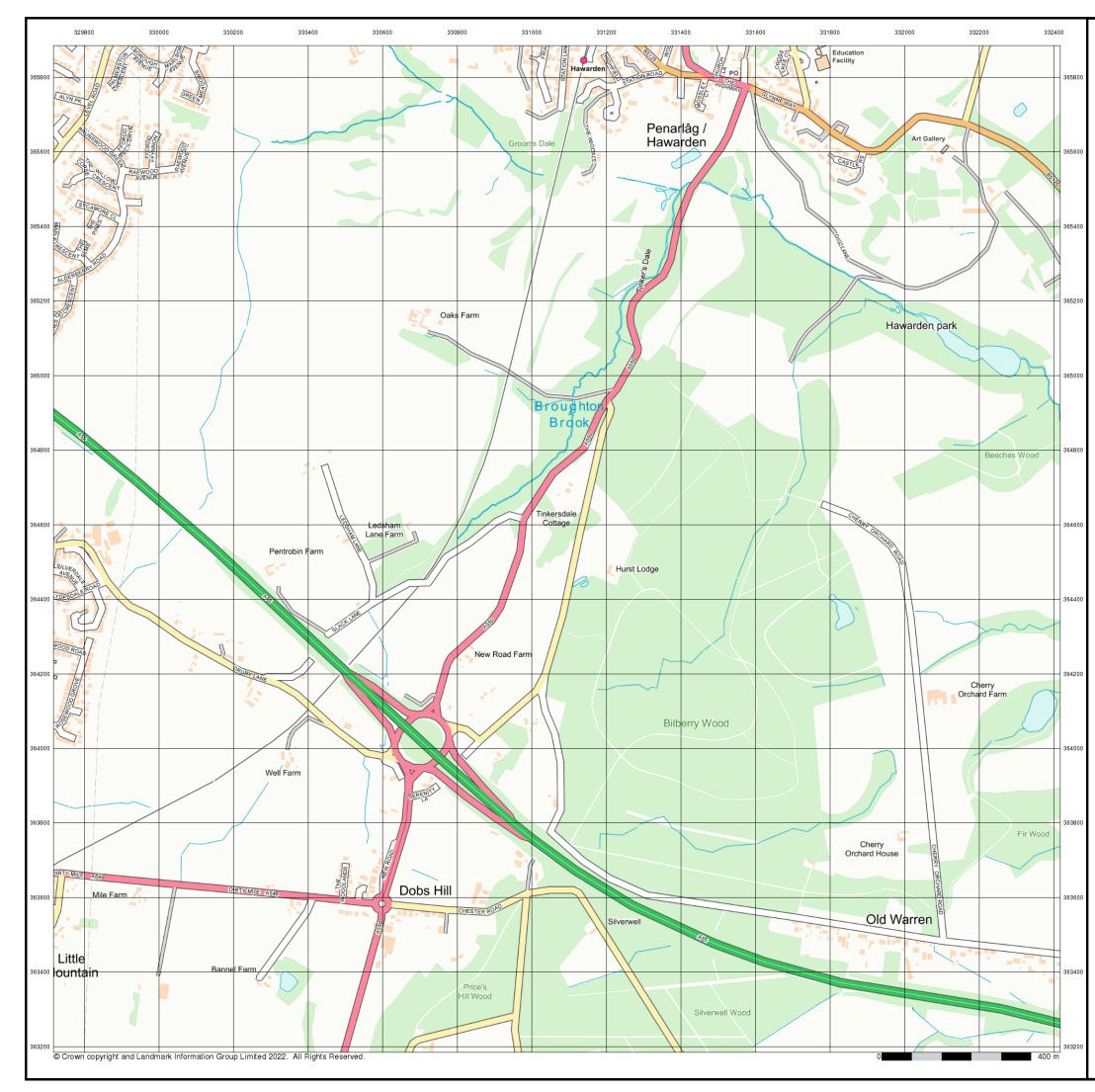
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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Street View

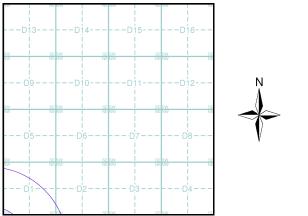
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice D



Order Details

Order Number: Customer Ref: National Grid Reference: 330010, 363420 Slice: Site Area (Ha): Search Buffer (m):

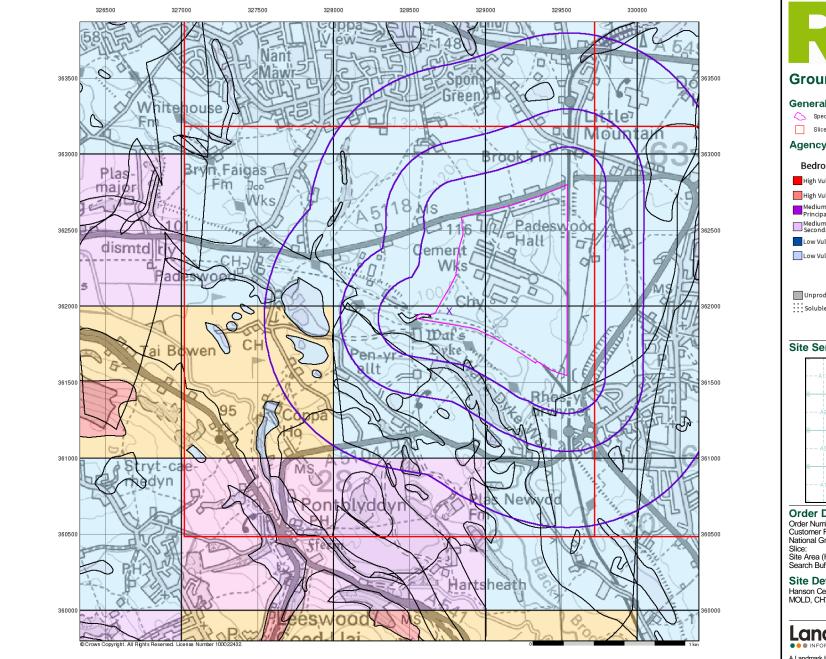
304808740_1_1 323126 D 71.96 1000

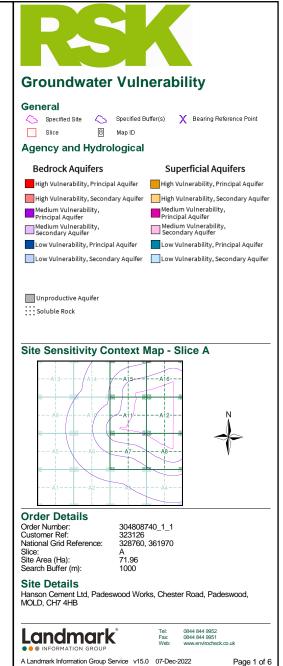
Site Details

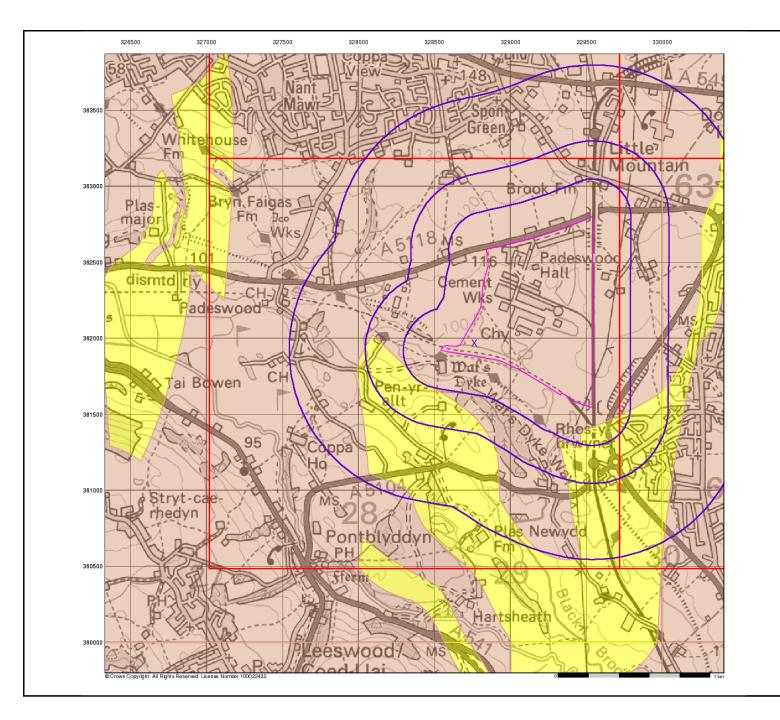
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

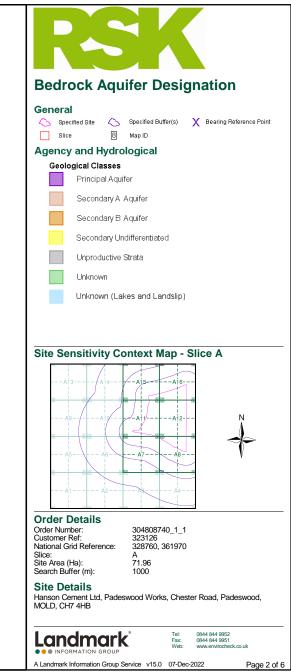


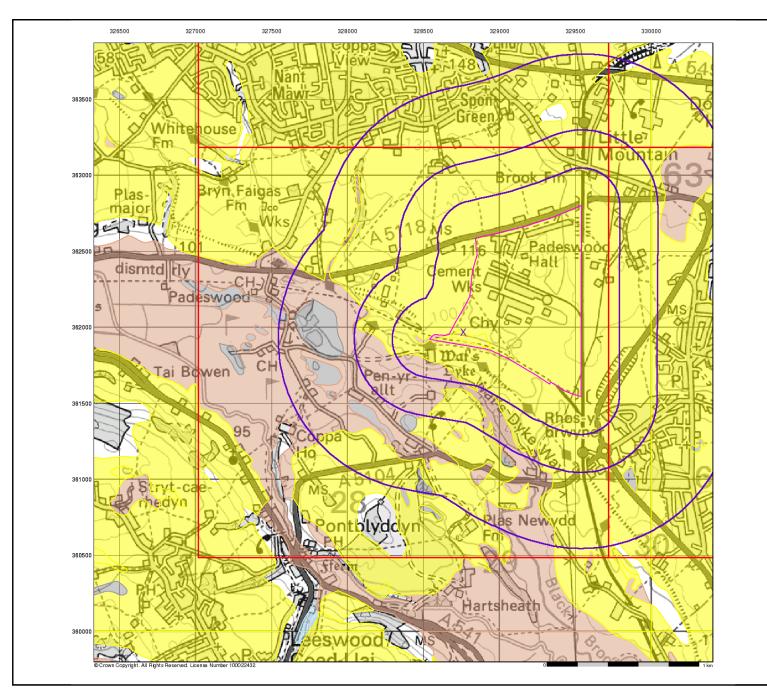


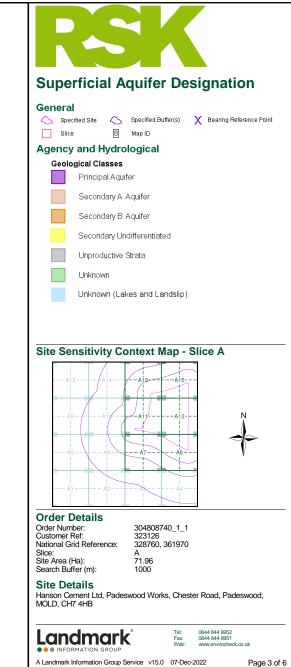


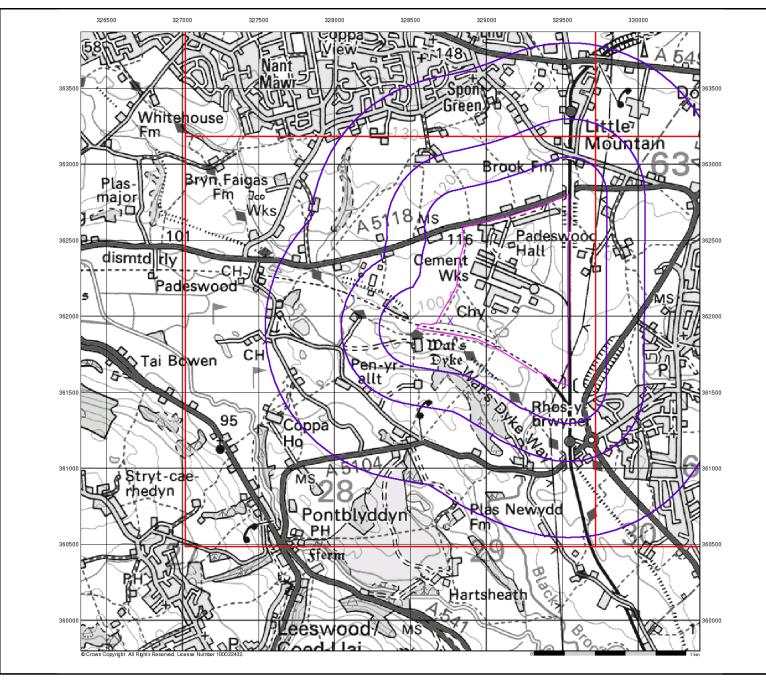


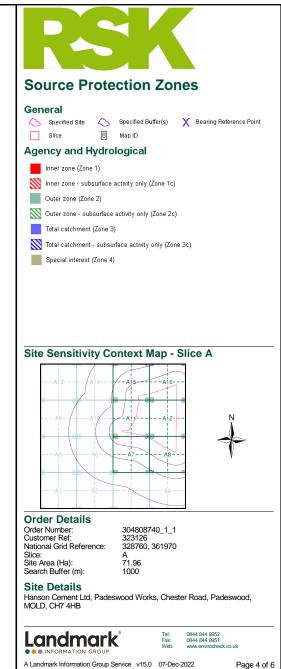


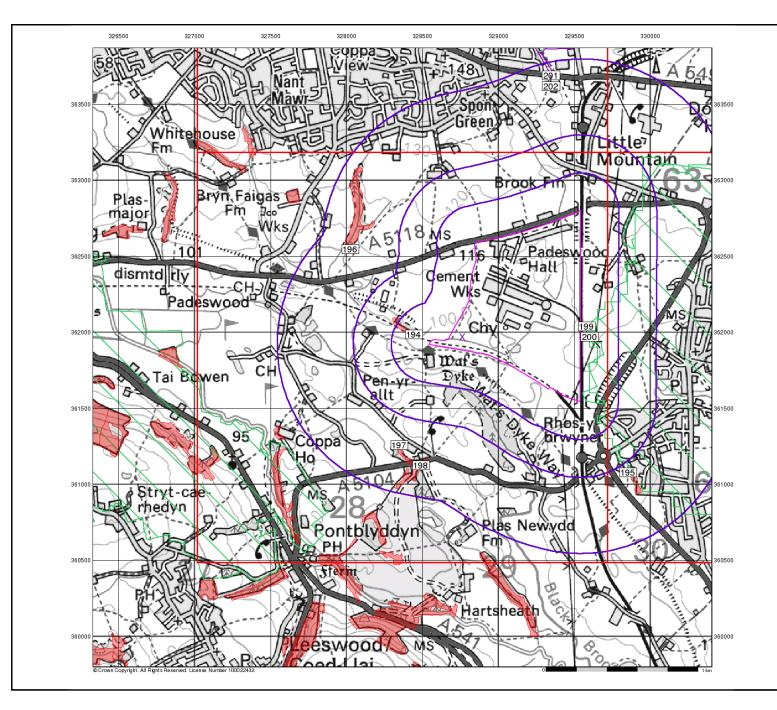


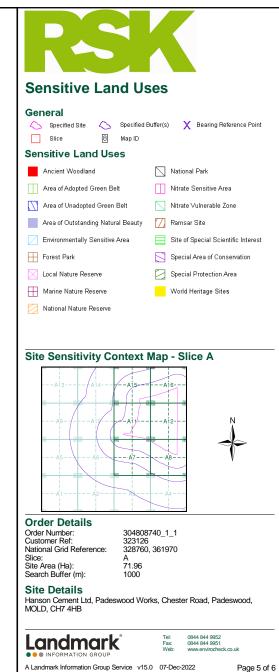


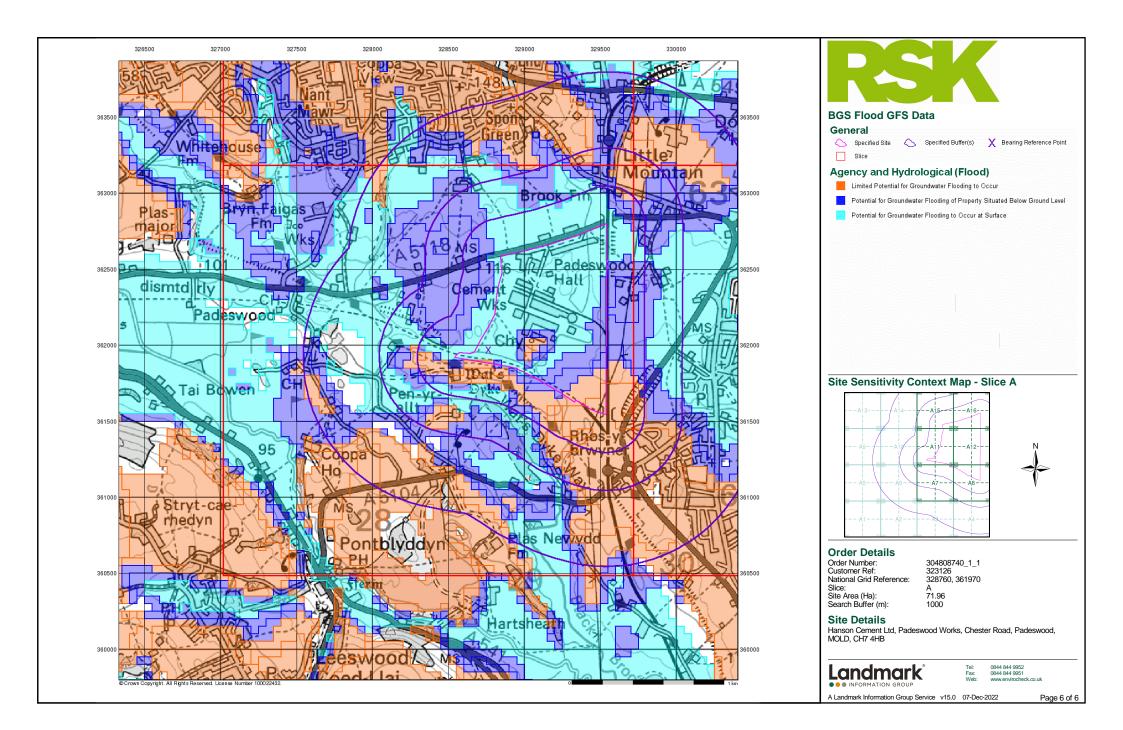














Envirocheck® Report:

Datasheet

Order Details:

Order Number: 304808740_1_1

Customer Reference: 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

Client Details:

Mrs F Clayton RSK Environment Ltd Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR





Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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Hazardous Substances	-
Geological	44
Industrial Land Use	50
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

Tor this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 5	2	2		24
Prosecutions Relating to Controlled Waters	pg 12	1	n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 12	2			
Integrated Pollution Controls	pg 12	8			5
Integrated Pollution Prevention And Control	pg 14	10			
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 19		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 19	2			5
Prosecutions Relating to Authorised Processes	pg 20	3			
Registered Radioactive Substances					
River Quality	pg 20			1	
River Quality Biology Sampling Points	pg 21				1
River Quality Chemistry Sampling Points	pg 22				1
Substantiated Pollution Incident Register	pg 22	1			2
Water Abstractions	pg 23				1 (*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 23	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 24	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 24	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 25		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 25		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 25	30	19	28	53



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 40	1	1		3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 41	1			
Licensed Waste Management Facilities (Locations)	pg 41	2		2	
Local Authority Landfill Coverage	pg 42	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 42				1
Registered Landfill Sites	pg 42	2	1		1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 44	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 44	1	2	2	4
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 45	Yes	n/a	n/a	n/a
Mining Instability	pg 45	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 45	1	2	2	4
Non Coal Mining Areas of Great Britain	pg 47	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 47	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 47	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 48	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 48	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 48	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 49	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 49	Yes	n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 50	2	3	3	
Fuel Station Entries	pg 50		1		
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 51		1		4
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 51		2		
Ramsar Sites					
Sites of Special Scientific Interest	pg 51				1
Special Areas of Conservation	pg 51				1
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	0	1	329000 361969
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	0	1	329000 362000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	0	1	329100 361969
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SE (W)	0	1	328763 361969
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE	0	1	328900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A12SW	0	1	361800 329050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A7NE	0	1	362050 329000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A7NE	0	1	361750 328950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) A11SE	0	1	361800 328763
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S) A11SE	0	1	361900 328800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A11SE	0	1	361900 329000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A12SE	0	1	361900 329450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A12SW	0	1	361900 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A11SE	0	1	362050 328950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E) A11SE	0	1	361969 329000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A12SW	0	1	361950 329050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) A12SW	0	1	361950 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E) A8NW	0	1	361950 329250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A11SE	0	1	361600 328900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A11SW	11	1	361850 328600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW) A11SE	11	1	361900 328800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S) A12NE (E)	12	1	361850 329550 362200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (W)	22	1	328600 362000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (S)	27	1	328763 361850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (SW)	49	1	328600 361850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SE)	65	1	329200 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE	78	1	329600 361500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) (NE)	79	1	329750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE	84	1	362650 328750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S) A8NW	93	1	361800 329150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A11SW	94	1	361600 328450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W) A12SE (E)	114	1	361950 329650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW	114	1	361900 329300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A7NE	117	1	361400 328800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S) A7NE	126	1	361750 328763
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S) A11SW	129	1	361750 328550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW) A8NW	129	1	362100 329250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A7NW	130	1	361500 328500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) A7NE	131	1	361800 328900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) A8NW	148	1	361700 329200 261500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A16NE	149	1	361500 329650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE) A7NW	150	1	362900 328650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) A16NE	163	1	361750 329600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE) A12SE (E)	164	1	362950 329700 361850



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SE)	171	1	329000 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SE)	176	1	328900 361650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16NE (NE)	187	1	329650 362950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SE)	188	1	329050 361550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (SW)	189	1	328400 361800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	194	1	328350 361950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (W)	196	1	328350 361969
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15NE (N)	200	1	328950 362900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NW (NE)	201	1	329300 363100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NE (NE)	201	1	329550 363000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (W)	207	1	328350 361850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	214	1	329750 361750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	214	1	329750 361700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NE (W)	229	1	328350 361800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (W)	254	1	328300 361850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NE (SW)	259	1	328350 361750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW	275	1	328500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) A7NW	290	1	361650 328700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S) A10SE	294	1	361600 328250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W) A10SE	295	1	361950 328250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W) A7NE	309	1	361969 328800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S) A8SW (SE)	309	1	361550 329250 361300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SW)	315	1	328550 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SW)	324	1	328500 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	329	1	329100 361350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SW (NW)	343	1	328500 362600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (S)	347	1	328650 361550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	351	1	329450 363200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (SW)	353	1	328400 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	356	1	329050 361350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NW (NE)	363	1	329350 363150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NE (SW)	376	1	328350 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (W)	394	1	328150 361950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW	397	1	329150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) A7NW	399	1	361250 328400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW) (NE)	411	1	361550 329300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW	416	1	363200 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A8SW	420	1	361250 329150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) A15NE	422	1	361200 328900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N) (NE)	432	1	363100 329700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NE	445	1	363200 328300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) A4NW	447	1	361550 329250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) (NE)	460	1	361150 329300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	460	1	363250 330000 361969



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater F Flooding Type:	Iooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	460	1	330000 362800
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	463	1	330000 361650
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	463	1	329250 363200
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	465	1	330000 361500
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	(SE)	473	1	330000 361450
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	A4NW (SE)	479	1	329300 361100
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	A15NE (N)	485	1	328950 363150
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	A4NW (SE)	494	1	329250 361100
1	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Castle Cement Ltd Manufacture Of Cement, Lime Plaster Mold Castle Cement Ltd. Natural Resources Wales River Dee Cm0103201 1 22nd October 1963 22nd October 1963 Not Supplied Trade Effluent Freshwater Stream/River Trib. Of Black Brook Revoked and replaced by IPC Authorisation Located by supplier to within 10m	A12SW (E)	0	2	329140 361930
1	Status:	S Castle Cement Ltd Undefined Or Other Padeswood Tunnel Portland Cement Co, Tunnel Portland Cement Co.Ltd. Natural Resources Wales River Dee Cm0103101 1 22nd October 1963 22nd October 1963 22nd December 1992 Sewage Discharges - Final/Treated Effluent - Not Water Company Not Supplied Trib. Of Black Brook Consent expired Located by supplier to within 10m	A12SW (E)	0	2	329120 361910
2	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s British Coal Opencast Coal Extraction, Surface Bannel Bridge Opencast Buckley CI, Buckley Clwyd Natural Resources Wales River Dee Cm0201003 1 28th May 1991 28th May 1991 24th June 1993 Unspecified Not Supplied Tributary Of Black Brook Consent expired Located by supplier to within 10m	A16SE (NE)	20	2	329390 362760



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s British Coal Opencast Coal Extraction, Surface Bannel Bridge Opencast Buckley CI, Buckley Clwyd Natural Resources Wales River Dee Cm0201002 1 28th May 1991 28th May 1991 24th June 1993 Unspecified Not Supplied Tributary Of Black Brook Consent expired Located by supplier to within 10m	A15SE (N)	135	2	328870 362730
4	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:		A4NW (SE)	623	2	329236 360986
5	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 9 10th August 2020 10th August 2020 10th August 2020 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
5	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 9 10th August 2020 10th August 2020 10th August 2020 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220



Map ID		Details		Estimated Distance From Site	Contact	NGR
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 9 10th August 2020 10th August 2020 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Issued Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 9 10th August 2020 10th August 2020 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales Not Supplied Cm0081001 Not Supplied 1st April 2017 28th April 2017 Z8th April 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Gb111067052172: Alyn - Leadmill To Hope Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 8 1st April 2017 28th April 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
5		Dwr Cymru Cyfyngedig Sewage Disposal Works Ty Gwyn Wwtw Buckley, Wrexham, Ch7 4jf Natural Resources Wales ALYN - LEADMILL TO HOPE Cm0081001 8 1st April 2017 28th April 2017 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
_	Discharge Consent			= 10	-	00700-
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 6 26th June 2010 26th March 2010 26th March 2010 30th March 2013 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)	A10NW (W)	719	2	327890 362220
	Positional Accuracy:	Located by supplier to within 10m				
5		Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 7 31st March 2013 26th March 2010 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
	Discharge Consent					
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 5 1st January 2010 26th June 2009 25th June 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	719	2	327890 362220



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	S				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 4 31st December 2005 31st December 2005 31st December 2009 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Black Brook Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 3 1st January 2001 29th November 2000 30th December 2005 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Black Brook Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
	Discharge Consent	S				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Buckley Ty Gwyn Cso Buckley Natural Resources Wales Not Supplied Cg038290101 1 20th September 1999 20th September 1999 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Black Brook New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	719	2	327890 362221
	Discharge Consent	s				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Buckley Ty Gwyn Cso Buckley Natural Resources Wales ALYN - LEADMILL TO HOPE Cg0382901 1 20th September 1999 20th September 1999 20th September 1999 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Black Brook Effective Located by supplier to within 10m	A10NW (W)	719	2	327890 362221



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	S				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works Buckley Ty Gwyn Cso Buckley Natural Resources Wales ALYN - LEADMILL TO HOPE Cg0382901 1 20th September 1999 20th September 1999 9th August 2020 Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Black Brook Revoked Located by supplier to within 10m	A10NW (W)	719	2	327890 362221
	Discharge Consent	s				
5	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee Cm0081001 1 17th December 1982 17th December 1982 30th September 1999 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Black Brook New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A10NW (W)	719	2	327890 362220
	Discharge Consent	S				
5	,	Dwr Cymru Cyfyngedig Sewage Disposal Works - Water Company Ty Gwyn Wwtw (Stw) Buckley Natural Resources Wales River Dee CM0081001 2 1st October 1999 17th December 1982 29th November 2000 Sewage Discharges - Final/Treated Effluent - Water Company Not Supplied Black Brook Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A10NW (W)	719	2	327890 362220
	Discharge Consent					
6	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	British Coal Opencast Coal Extraction, Surface Bannel Bridge Opencast Buckley CI, Buckley Clwyd Natural Resources Wales River Dee Cm0201001 1 28th May 1991 28th May 1991 28th May 1991 24th June 1993 Unspecified Not Supplied Tributary Of Black Brook Consent expired Located by supplier to within 10m	A14SE (NW)	741	2	328110 362690



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consents	S				
6	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	British Coal Opencast Coal Extraction, Surface Bannel Bridge Opencast Buckley Cl, Buckley Clwyd Natural Resources Wales River Dee Cm0201004 1 28th May 1991 28th May 1991 24th June 1993 Unspecified Not Supplied Tributary Of Black Brook Consent expired Located by supplier to within 10m	A14SE (NW)	741	2	328110 362690
	Discharge Consents	5				7
7	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Dwr Cymru Cyfyngedig Undefined Or Other Buckley Meg'S Lane(See Cm0196001) Natural Resources Wales River Dee Cm0011101 1 11th November 1960 11th November 1960 22nd December 1992 Unspecified Not Supplied Un-Named W'Course Flo.Into Pad Consent expired Located by supplier to within 10m	A14SW (NW)	826	2	328000 362550
	Discharge Consents	S				
8	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Rowlands M Undefined Or Other Padeswood - Meadowdale Bistre Farm Natural Resources Wales River Dee Cm0157101 1 21st December 1987 21st December 1987 23rd December 1987 23rd December 1992 Unspecified Not Supplied To Land Consent expired Located by supplier to within 100m	A10NW (NW)	885	2	327800 362400
	Discharge Consents	5				
9	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	John Alun Davies Domestic Property (Single) Brooklea Chester Road Padeswood, Chester Road, Mold Flintshire, Ch7 4jf Natural Resources Wales Not Supplied Cg0406101 1 9th January 2003 9th January 2003 Not Supplied Sewage Discharges - Final/Treated Effluent - Not Water Company Freshwater Stream/River The Foundry Brook New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A10NW (W)	956	2	327707 362384



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date:	Old Padeswood Golf Club Undefined Or Other Padeswood Buckley Golf Club Natural Resources Wales River Dee Cm0006901 1 20th December 1963 20th December 1963	A9SE (W)	961	2	327600 362100
	Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	5th April 1995 Unspecified Not Supplied Un-Named Stream Flowing To Pad Consent expired Located by supplier to within 100m				
11	Location: Prosecution Text: Prosecution Act: Hearing Date: Verdict: Fine: Cost:	ing to Controlled Waters Black Brook, Black Brook, Padeswood, MOLD, Wrexham, . Ea News Release, 27/10/00, On The 24/02/00, Castle Cement Was Found To Have Spilled Heavy Oil Into A Tributary Of The Black Brook. They Were Charged With Carrying On A Prescribed Process In Breach Of A Condition Of Ots Authorisation By Releasing Oil. Ea90 S6(1) & S23(1a) 26th October 2000 Guilty 1500 2541 Manually positioned to the address or location	A12SW (E)	0	3	329282 362057
12	Enforcement and Pr Location: Permit Reference: Enforcement Date: Details: Positional Accuracy:	rohibition Notices Padeswood Works, Mold, Flintshire, Ch7 4hb Sm169/02ij 9th September 2002 Notice Served After Plant Breakdown Lead To Unauthorised Emission Of Dust Manually positioned to the address or location	A12NW (NE)	0	3	329053 362346
13	Enforcement and Pr Location: Permit Reference: Enforcement Date: Details: Positional Accuracy:	rohibition Notices Padeswood Works, Chester Road, Mold, Ch7 4hb Not Given Not Supplied Breaching Emission Limits Of Dioxins Manually positioned to the address or location	A11NE (NE)	0	3	329039 362231
14	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Controls Castle Cement Ltd Padeswood Works, Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region By4548 4th October 2004 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Revoked - Now IPPC Manually positioned to the address or location	A12NW (NE)	0	3	329080 362226
15	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Controls Castle Cement Ltd Padeswood Works, Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region By4432 25th September 2004 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the address or location	A12NW (NE)	0	3	329178 362205
16	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Controls Castle Cement Ltd Padeswood Works, Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region Bt2459 20th March 2003 IPC major (substantial) variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the address or location	A11NE (NE)	0	3	329033 362364



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Integrated Pollution	Controls				
16	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region Bt7876 30th November 2002 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the address or location	A12NW (NE)	0	3	329068 362342
	Integrated Pollution	Controls				
16	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region Bt2629 Not Supplied IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Application has met the requirements for authorisation (but not yet	A11NE (NE)	0	3	329034 362365
		authorised)				
	Positional Accuracy:	Manually positioned to the address or location				
17	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description:	Controls Castle Cement Ltd Padeswood Works,Padeswood, Mold, Clwyd, Ch7 4hb Environment Agency, Welsh Region Br8611 28th March 2002 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry	A12NW (NE)	0	3	329100 362400
	Status: Positional Accuracy:	Authorisation superseded by a substantial or non substantial variation Located by supplier to within 100m				
	Integrated Pollution	Controls				
18	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Castle Cement Ltd Padeswood Works, Padeswood, MOLD, Clwyd, CH7 4HB Environment Agency, Welsh Region Bk9458 22nd June 2001 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the address or location	A16SW (NE)	0	3	329086 362512
	Integrated Pollution	Controls				
19	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Castle Cement Ltd Padeswood Works, Padeswood, MOLD, CLWYD, CH7 4HB Environment Agency, Welsh Region BE9390 Not Supplied IPC staged application 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Application has met the requirements for authorisation (but not yet authorised) Manually positioned to the address or location	A12NW (NE)	0	3	329146 362308
	Integrated Pollution	Controls				
20	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB Environment Agency, Welsh Region BH3738 19th November 1999 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation	A6NW (W)	870	3	327755 361554
	Positional Accuracy:	Manually positioned to the road within the address or location				



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Integrated Pollution	Controls				
20	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, MOLD, Clwyd, CH7 4JJ Environment Agency, Welsh Region BC7345 24th November 1998 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the road within the address or location	A6NW (SW)	873	3	327755 361549
	-					
20	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB Environment Agency, Welsh Region AX6281 30th December 1996 IPC minor (non-substantial) variation to previous variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Application has met the requirements for authorisation (but not yet authorised)	A6NW (SW)	875	3	327755 361544
	Positional Accuracy:	Manually positioned to the road within the address or location				
20	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Controls Castle Cement Ltd Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB Environment Agency, Welsh Region AL2691 25th January 1994 IPC major (substantial) variation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation Manually positioned to the road within the address or location	A6NW (SW)	877	3	327750 361549
	Integrated Pollution	••				
20	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Castle Cement Ltd Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB Environment Agency, Welsh Region Al0349 30th September 1993 IPC application for process that was regulated by HMIP for air releases under previous legislation 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry Authorisation superseded by a substantial or non substantial variation	A6NW (SW)	879	3	327750 361544
		Manually positioned to the road within the address or location				
21	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Description: Primary Activity: Activity Code: Activity Description: Primary Activity: Activity Code:	22nd October 2021 Effective Bespoke Not Supplied Automatically positioned to the address 3.1 PART A (2) A) Not Supplied N 3.1 Part B a) Not Supplied N 3.1 Part B b) Not Supplied N 0.0 Associated Process Not Supplied N 3.1 PART A (1) A)	A16SW (NE)	0	2	329086 362512



2 329086 362512	0		N 3.5 B (A)	21 Name: Location Authorit Permit I Original Effectiv Status: Applica App. Sa Positior Activity Primary
	0	, (NE)	Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB Natural Resources Wales VP3738NP BI1096ib 6th September 2013 Effective Variation Minor : Automatically positioned to the address 5.1 A(1) (C) : Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.5 B (A) : Other Mineral Activities; Any Processing With Release Of Particulates Into Air	Location Authorit Permit I Original Effectiv Status: Applica App. Su Positior Activity Activity Primary
		ir	Natural Resources Wales VP3738NP Bl1096ib 6th September 2013 Effective Variation Minor r: Automatically positioned to the address 5.1 A(1) (C) : Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.5 B (A) : Other Mineral Activities; Any Processing With Release Of Particulates Into Air	Permit Original Effectiv Status: Applica App. Su Positior Activity Activity Primary
		ir	Effective Variation Minor : Automatically positioned to the address 5.1 A(1) (C) : Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.5 B (A) : Other Mineral Activities; Any Processing With Release Of Particulates Into Air	Status: Applica App. Su Positior Activity Activity Primary
		r	Minor Automatically positioned to the address 5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air	App. Su Position Activity Activity Primary
		ir	 Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air 	Activity Primary
		ir	: Other Mineral Activities; Any Processing With Release Of Particulates Into Air	
				Activity Activity
		ı	N 3.1 B (B) : Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site)	Primary Activity Activity
			N 3.1 B (A)	Primary Activity
			Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N 3.1 A(1) (A)	Activity Primary Activity
			Cement And Lime; Producing Etc Cement Clinker Y 5.1 A(1) (E)	Activity Primary Activity
			 Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N 	
			n Prevention And Control	Integra
2 329086 362512	0	A16SW (NE)	Castle Cement Limited Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB	21 Name: Location
			Natural Resources Wales NP3332HN Bl1096ib	Authorit Permit I Original
			15th December 2010 Superseded By Variation	Effectiv Status:
			Variation Minor ·: Automatically positioned to the address	App. Su
			5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N	
			3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker	Activity Activity
		ir	3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air	Activity Activity
			N 3.1 B (A)	Primary Activity
			N 3.1 B (B)	Primary Activity
		1	: Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site) N	Activity
			5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr	Activity Activity
_	0	, (NE) ir	Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB Natural Resources Wales NP3332HN BH096ib 15th December 2010 Superseded By Variation Variation Minor 7: Automatically positioned to the address 5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N 3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y 3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) N 3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N 3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site) N 5.1 A(1) (C)	Location Authorit Permit I Original Effectiv Status: App. Su Positior Activity Activity Primary Activity Activity Primary Activity Primary Activity Activity Primary Activity Primary Activity Primary Activity Primary Activity



Map ID		Details		Estimated Distance From Site	Contact	NGR
	Integrated Pollution	Prevention And Control				
21	Name: Location:	Castle Cement Limited Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB	A16SW (NE)	0	2	329086 362512
	Authority: Permit Reference:	Natural Resources Wales DP3434TJ				
	Original Permit Ref: Effective Date: Status:	4th August 2010 Superseded By Variation				
	Application Type: App. Sub Type: Positional Accuracy:	Variation Simple Standard Variation Automatically positioned to the address				
	Activity Code:	3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y				
	Activity Code: Activity Description:	5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated				
	Primary Activity: Activity Code: Activity Description:	N 3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out				
	Primary Activity: Activity Code: Activity Description:	N 5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr				
	Primary Activity: Activity Code: Activity Description:	N 3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction				
	Primary Activity:	Site) N				
	Activity Code: Activity Description:	3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting)				
	Primary Activity:	Ň				
	Integrated Pollution	Prevention And Control				
21	Name: Location:	Castle Cement Limited Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB	A16SW (NE)	0	2	329086 362512
	Authority: Permit Reference: Original Permit Ref:	Natural Resources Wales DP3831KE BI1096ib				
	Effective Date: Status:	6th April 2010 Superseded By Variation				
		Variation Minor Automatically positioned to the address				
	Activity Code: Activity Description: Primary Activity:	5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N				
	Activity Code: Activity Description: Primary Activity:	5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N				
	Activity Code: Activity Description:	3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site)				
	Primary Activity: Activity Code:	N 3.5 B (A)				
	Activity Description: Primary Activity:	Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) N				
	Activity Code: Activity Description: Primary Activity:	3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y				
	Activity Code:	3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N				



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Integrated Pollution	Prevention And Control				
21	Name: Location:	Castle Cement Limited Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd,	A16SW (NE)	0	2	329086 362512
	Activity Code: Activity Description: Primary Activity: Activity Code: Activity Description: Primary Activity: Activity Code: Activity Description: Primary Activity: Activity Description: Primary Activity: Activity Description: Primary Activity: Activity Description: Primary Activity: Activity Code: Activity Code:	CH7 4HB Natural Resources Wales EP3837XW Bl1096ib 30th October 2008 Superseded By Variation Variation Minor Automatically positioned to the address 3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site) N 3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N 3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y 3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) N 5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N 5.2 A(1) (A) Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T				
	Primary Activity:	Excluding Inert Waste				
		Prevention And Control				
21	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Description: Primary Activity: Activity Code: Activity Code: Activ	Castle Cement Limited Chester Road, Padeswood, Mold, Clwyd, CH7 4HB Natural Resources Wales AP3134UN		0	2	329086 362512



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Integrated Pollution	Prevention And Control				
21	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Code: Activity Code:	Castle Cement Limited Chester Road, Padeswood, Mold, Clwyd, CH7 4HB Natural Resources Wales KP3338UC BI1096ib 3rd April 2008 Superseded By Variation Variation Standard Automatically positioned to the address 3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N 3.5 B (A)	A16SW (NE)	0	2	329086 362512
	Primary Activity: Activity Code: Activity Description: Primary Activity: Activity Code:	Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecutting) N 3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site) N 3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y				
	Integrated Pollution	Prevention And Control				
21	Name: Location:	Castle Cement Limited Padeswood Landfill, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB	A16SW (NE)	0	2	329086 362512
	Activity Code: Activity Description: Primary Activity: Activity Code: Activity Description:	8th November 2007 Superseded By Variation Variation Substantial Automatically positioned to the address 5.3 A(1) (A)				
	Primary Activity:	Ť				
	Integrated Pollution	Prevention And Control				
21	Name: Location:	Castle Cement Limited Padeswood Cement Works, Padeswood Works, Padeswood,, MOLD, Clwyd, CH7 4HB	A16SW (NE)	0	3	329086 362512
	Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Code: Activity Description: Primary Activity: Activity Code: Activity Code:	CH7 4HB Environment Agency, Welsh Region DP3031KQ BI1096ib Not Supplied Valid Surrender Part Automatically positioned to the address 5.1 A(1) (C) Incineration Of Non Hazardous Waste Greater Than 1 T/Hr N 3.1 B (B) Cement And Lime; Blending/Using Cement In Bulk (Unless At A Construction Site) N 3.1 B (A) Cement And Lime; Loading Etc Cement And Clinker, Bulk In And Out N 5.2 A(1) (A) Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste N 3.5 B (A) Other Mineral Activities; Any Processing With Release Of Particulates Into Air (Unless A(1) Or A(2)), (Except Stone Ecuting) N 5.1 A(1) (E) Waste Incineration; Non Hazardous Waste Unless Otherwise Stated N 3.1 A(1) (A) Cement And Lime; Producing Etc Cement Clinker Y				



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	ution Prevention and Controls 4 X 4 Centre Chester Road, Padeswood, Mold, CH7 4JF Flintshire Council, Environmental Health Department 10607 11th March 2010 Local Authority Pollution Prevention and Control PG1/1Waste oil burners, less than 0.4MW net rated thermal input Not Supplied Manually positioned to the road within the address or location	A16SW (NE)	13	4	329177 362679
	Nearest Surface Wa	ter Feature	A8NW (SE)	0	-	329308 361663
23	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Road (Lost Load) Location Description Not Available Environment Agency, Welsh Region Oils - Diesel (Including Agricultural) Accidental Spillage/Leakage 9th June 1995 24352 Not Given Not Given Leakage Category 3 - Minor Incident Located by supplier to within 100m	A16SE (NE)	0	3	329400 362600
24	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Process Castle Cement Environment Agency, Welsh Region Mud/Clay/Soil Accidental Spillage/Leakage 31st October 1991 1947 Not Given Not Given Not Given Overflow Category 2 - Significant Incident Located by supplier to within 100m	A12NW (NE)	0	3	329300 362200
25	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Sewage Treatment Works Down Stream Of, Ty Gwyn Outfall Environment Agency, Welsh Region Unknown Not Supplied 15th January 1992 3361 Not Given Not Given Effluent Discharge Category 3 - Minor Incident Located by supplier to within 100m	A10NE (W)	567	3	328050 362200
26	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Sewage Treatment Works Adjacent To Ty, Gwyn Works Environment Agency, Welsh Region Crude Sewage Not Supplied 26th September 1994 21114 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	A10NE (NW)	613	3	328040 362270
27	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Ty Gwyn Sewage Treatment Works Environment Agency, Welsh Region Sewage - Treated Effluent River Alyn; Effluent Quality 6th February 1998 34999 Not Given Not Given Mechanical/Electrical Plant Failure Category 3 - Minor Incident Located by supplier to within 100m	A10NW (W)	712	3	327895 362215



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Ty Gwyn Sewage Treatment Works Environment Agency, Welsh Region Sewage - Treated Effluent River Dee; Effluent Quality 19th February 1998 34995 Not Given Not Given Mechanical/Electrical Plant Failure Category 3 - Minor Incident Located by supplier to within 100m	A10NW (W)	717	3	327890 362215
28	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BUCKLEY Environment Agency, Welsh Region Oils - Petrol Deliberate Act 26th March 1996 27662 Not Given Not Given Direct Discharge Category 3 - Minor Incident Located by supplier to within 100m	A14NW (NW)	942	3	328000 363000
29	Location: Prosecution Text: Prosecution Act: Hearing Date: Verdict: Fine: Costs:	ng to Authorised Processes Padeswood Works, Padeswood, Mold, Ch7 4hb Failing to comply with environmental permit regulations Epr07 18th February 2010 Guilty 305000 0 Manually positioned to the address or location	A11NE (NE)	0	3	329028 362298
30	Location: Prosecution Text: Prosecution Act: Hearing Date: Verdict: Fine: Costs:	ng to Authorised Processes Padeswood Works, Mold, CH7 4LD Breaching the held PPC licence Epa90 S6 & 23 31st March 2006 Guilty 99000 9304 Manually positioned within the geographical locality	A12NW (NE)	0	3	329063 362350
31	Location: Prosecution Text: Prosecution Act: Hearing Date: Verdict: Fine: Costs:	ng to Authorised Processes Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB EA News Release 13/02/1999, Prosecuted after breaching 4 conditions of it's cement manufacturing process authorisation EPA90 s6(1) 12th February 1999 Guilty 6000 14850 Manually positioned to the address or location	A12NW (NE)	0	3	329100 362400
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Black Bk River Quality E Conf.Alyn-Conf.Bistre Drain Padeswood 3.9 Flow less than 0.31 cumecs River 2000	A7NE (S)	262	3	328706 361627



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Biolog	gy Sampling Points				
32	Name: Reach: Estimated Distance: Positional Accuracy: Year: GQA Grade: Year: GQA Grade:	Black Brook Confluence River Alyn To Confluence Bistre Drain Padeswood 3.90 Located by supplier to within 100m 1990 River Quality Biology GQA Grade D - Fair 1995 River Quality Biology GQA Grade D - Fair 2000 River Quality Biology GQA Grade C - Fairly Good 2002 River Quality Biology GQA Grade D - Fair 2003 River Quality Biology GQA Grade D - Fair 2004 River Quality Biology GQA Grade D - Fair 2005 River Quality Biology GQA Grade C - Fairly Good 2006 River Quality Biology GQA Grade C - Fairly Good 2007 River Quality Biology GQA Grade C - Fairly Good 2008 River Quality Biology GQA Grade C - Fairly Good 2008 River Quality Biology GQA Grade C - Fairly Good 2008 River Quality Biology GQA Grade C - Fairly Good 2009 River Quality Biology GQA Grade C - Fairly Good 2009 River Quality Biology GQA Grade C - Fairly Good	A6NW (W)	557	3	328000 361800



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Chemi	istry Sampling Points				
33	Name:	Black Brook	A4NW	657	3	329210
	Reach:	Confluence River Alyn To Confluence Bistre Drain Padeswood	(SE)		-	360960
	Estimated Distance:					
	Objective:	Not Supplied				
		Located by supplier to within 10m				
	Year: GQA Grade:	1990 River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:	1993				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:	1994 Biver Quality Chamistry COA Crade E. Baar				
	GQA Grade: Compliance:	River Quality Chemistry GQA Grade E - Poor Not Supplied				
	Year:	1995				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:	1996				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance: Year:	Not Supplied 1997				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:					
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance: Year:	Not Supplied 1999				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:	2000				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year: GQA Grade:	2001 River Quality Chemistry GQA Grade D - Fair				
	Compliance:	Not Supplied				
	Year:	2002				
	GQA Grade:	River Quality Chemistry GQA Grade C - Fairly Good				
	Compliance:	Not Supplied				
	Year: GQA Grade:	2003 Diver Quality Chamistry COA Crade C. Fairly Coad				
	Compliance:	River Quality Chemistry GQA Grade C - Fairly Good Not Supplied				
	Year:	2004				
	GQA Grade:	River Quality Chemistry GQA Grade C - Fairly Good				
	Compliance:	Not Supplied				
	Year:					
	GQA Grade: Compliance:	River Quality Chemistry GQA Grade C - Fairly Good Not Supplied				
	Year:	2006				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:					
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance: Year:	Not Supplied 2008				
	GQA Grade:	River Quality Chemistry GQA Grade E - Poor				
	Compliance:	Not Supplied				
	Year:	2009				
	GQA Grade:	River Quality Chemistry GQA Grade C - Fairly Good				
<u> </u>	Compliance:	Not Supplied				
		tion Incident Register				
34	Authority:	Natural Resources Wales	A11NE	0	2	328839
	Incident Date: Incident Reference:	4th November 2020 2007864	(N)			362364
	Water Impact:	Category 2 - Significant Incident				
	Air Impact:	Category 4 - No Impact				
	Land Impact:	Category 4 - No Impact				
		Located by supplier to within 10m				
	Pollutant:	Oils - Diesel (Including Agricultural)				
		tion Incident Register				
35	Authority:	Natural Resources Wales	A6NE	515	2	328062
	Incident Date:	22nd June 2010	(W)			361741
	Incident Reference: Water Impact:	793020 Category 2 - Significant Incident				
	Air Impact:	Category 2 - Significant Incident Category 4 - No Impact				
	Land Impact:	Category 4 - No Impact				
	Positional Accuracy:	Located by supplier to within 10m				
	Pollutant:	Sewage Materials: Grey Water				
L	1		1		L	



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Substantiated Pollu	tion Incident Register				
36	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact: Positional Accuracy: Pollutant:	Natural Resources Wales 9th April 2006 389718 Category 4 - No Impact Category 2 - Significant Incident Category 4 - No Impact Located by supplier to within 10m Other Pollutant: Noise	A6SE (SW)	560	2	328197 361482
	Water Abstractions					
37	Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mr R Higgins 24/67/8/0009 100 Well A Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Well A 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	A4NE (SE)	637	3	329410 360921
	Water Abstractions					
	Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised Start: Authorised Start: Permit Start Date: Permit End Date: Positional Accuracy:	Mr J Jones 24/67/8/0043 100 Black Brook Environment Agency, Welsh Region General Agriculture: Spray Irrigation - Direct Water may be abstracted from a single point Surface Not Supplied Not Supplied Black Brook 01 January 31 December 13th June 1969 Not Supplied Located by supplier to within 100m	A9NE (W)	1197	3	327380 362200
	Water Abstractions					
	Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mr R Higgins 24/67/8/0009 100 Well B Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	(SE)	1527	3	329590 360020
	Groundwater Vulne					
	Combined Classification: Combined Vulnerability: Combined Aquifer: Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial Patchiness: Superficial Thickness: Superficial Recharge:	Secondary Superficial Aquifer - Low Vulnerability Low Productive Bedrock Aquifer, Productive Superficial Aquifer Low Well Connected Fractures 300-550 mm/year <40% >90% >10m High	A11SE (W)	0	2	328763 361969



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulne	rability Map				
	Combined	Secondary Superficial Aquifer - Low Vulnerability	A11SW	0	2	328640
	Classification:		(W)	Ŭ	-	361930
	Combined	Low				
	Vulnerability:					
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer				
	Bedrock Flow:	Well Connected Fractures				
	Dilution:	300-550 mm/year				
	Baseflow Index:	<40%				
	Superficial	>90%				
	Patchiness: Superficial	>10m				
	Thickness:	21011				
	Superficial	High				
	Recharge:					
	Groundwater Vulne	rability Map				
	Combined	Secondary Superficial Aquifer - Low Vulnerability	A11SE	0	2	329000
	Classification:		(E)	Ŭ	-	361969
	Combined	Low				-
	Vulnerability:					
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer Low				
	Bedrock Flow:	Well Connected Fractures				
	Dilution:	300-550 mm/year				
	Baseflow Index:	<40%				
	Superficial Patchiness:	>90%				
	Superficial	>10m				
	Thickness:					
	Superficial	Low				
	Recharge:					
	Groundwater Vulne	rability Map				
	Combined	Secondary Superficial Aquifer - Low Vulnerability	A11SE	0	2	328763
	Classification:		(N)	Ŭ	-	362000
	Combined	Low	. ,			
	Vulnerability:					
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer				
	Bedrock Flow:	Well Connected Fractures				
	Dilution:	300-550 mm/year				
	Baseflow Index:	<40%				
	Superficial Patchiness:	>90%				
	Superficial	>10m				
	Thickness:					
	Superficial	Low				
	Recharge:					
	Groundwater Vulne	rability Map				
	Combined	Secondary Superficial Aquifer - Low Vulnerability	A11SE	0	2	329000
	Classification:		(E)	Ĭ	-	362000
	Combined	Low				
	Vulnerability:	Deschusting Deskersch Assuiter Deschusting On (1) has 10				
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer Low				
	Bedrock Flow:	Well Connected Fractures				
	Dilution:	300-550 mm/year				
	Baseflow Index:	<40%				
	Superficial Patchiness:	>90%				
	Superficial	>10m				
	Thickness:					
	Superficial	Low				
	Recharge:					
	Bedrock Aquifer De	signations				
	=	Secondary Aquifer - A	A11SE	0	2	328763
			(W)			361969
	Superficial Aquifer	Designations				
		Secondary Aquifer - A	A11SW	0	2	328640
		· ·	(W)			361930
	Superficial Aquifer	Designations				
		Secondary Aquifer - Undifferentiated	A11SE	0	2	328762
			(SW)			361967
	Superficial Aquifer	Designations				
	Aquifer Designation:	Secondary Aquifer - Undifferentiated	A11SE	0	2	328763
	-		(W)			361969



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (S)	176	2	328675 361720
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (S)	176	2	328675 361720
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 312.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SW (NW)	0	5	328694 362007
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A11NE (N)	0	5	328809 362207
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 268.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11NE (N)	0	5	328809 362207
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 406.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (S)	0	5	328753 361908
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (SE)	0	5	328785 361958
43	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SE (SW)	0	5	328720 361930
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SW (W)	0	5	328649 361941



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 593.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11SW (W)	0	5	328648 361944
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 311.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	0	5	329267 361602
47	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	0	5	329327 361687
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 223.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	0	5	329335 361693
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NE (SE)	0	5	329018 361822
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NE (SE)	0	5	329022 361824
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NE (SE)	0	5	329026 361827
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329166 361957
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 387.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329252 362033



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329240 362027
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329300 362099
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329288 362103
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329271 362109
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (E)	0	5	329325 362093
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NW (E)	0	5	329377 362184
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NW (E)	0	5	329372 362191
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 207.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NW (NE)	0	5	329296 362301
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 482.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NW (E)	0	5	329374 362194



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 385.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A11NE (N)	0	5	328856 362469
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	0	5	329406 362670
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	0	5	329406 362672
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	0	5	329401 362714
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	0	5	329399 362721
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 249.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	37	5	329396 362780
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SE (NE)	37	5	329384 362780
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (NE)	41	5	329379 362780
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16SW (NE)	43	5	329321 362774



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	58	5	329142 361655
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 430.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	119	5	329352 361373
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (S)	182	5	328674 361713
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	195	5	329077 361556
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8NW (SE)	199	5	329075 361553
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	226	5	329095 361451
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	226	5	329143 361478
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (S)	227	5	328680 361667
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (S)	231	5	328679 361663



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (S)	231	5	328679 361663
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (SW)	235	5	328456 361704
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16NE (NE)	236	5	329400 362996
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 382.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A16NW (NE)	236	5	329377 363000
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SE (N)	240	5	328850 362834
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 186.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15SE (N)	244	5	328849 362837
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (SW)	261	5	328507 361663
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (SW)	263	5	328490 361665
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7NW (S)	266	5	328638 361634



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7NW (S)	266	5	328634 361635
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7NW (S)	267	5	328633 361635
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (SW)	269	5	328456 361668
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 458.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7NW (S)	270	5	328696 361621
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7NW (S)	273	5	328682 361620
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7NW (S)	275	5	328654 361623
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	351	5	328335 361640
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A6NE (SW)	351	5	328335 361640
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SE (W)	385	5	328245 362167



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	410	5	328842 363006
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A6NE (SW)	414	5	328236 361645
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	414	5	328236 361645
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A15NE (N)	416	5	328839 363012
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (W)	419	5	328136 361825
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	419	5	328235 361639
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	419	5	328235 361639
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	434	5	328179 361686
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (W)	435	5	328139 361762



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A7SE (S)	437	5	328979 361333
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 389.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SE (W)	446	5	328127 362080
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (SE)	450	5	329239 361173
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SE (W)	454	5	328124 362094
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	493	5	328163 361609
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 130.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	493	5	328163 361609
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A8SW (S)	498	5	329047 361211
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 239.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A8SW (S)	501	5	329047 361211
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NE (NW)	502	5	328324 362437



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NE (NW)	502	5	328328 362441
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NE (NW)	526	5	328248 362365
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: Underground Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A6NW (W)	535	5	328029 361776
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	536	5	328150 361560
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NE (SW)	538	5	328121 361589
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NE (NW)	544	5	328204 362353
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A6NW (W)	544	5	328017 361785
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 335.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	584	5	328155 362696
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A4NW (SE)	598	5	329242 361011



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	608	5	328024 362235
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	609	5	328019 362229
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SW (S)	614	5	328591 361289
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SW (W)	619	5	327930 361836
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	619	5	327930 361836
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3NE (S)	657	5	328887 361130
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (S)	657	5	328769 361180
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10SW (W)	658	5	327913 362107
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (SW)	665	5	327951 361621



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	668	5	327887 361796
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	671	5	327886 361789
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (S)	675	5	328717 361200
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	678	5	327882 361776
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (S)	682	5	328717 361200
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	691	5	327854 361886
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	714	5	327858 361725
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	714	5	327858 361725
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	721	5	327827 361991



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	734	5	327814 362002
145	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 103.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	735	5	327814 362008
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	758	5	328086 362617
147	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 24.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	758	5	327810 361733
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3NE (S)	758	5	328810 361059
149	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A6NW (W)	763	5	327830 361654
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 777.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	781	5	328052 362694
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	782	5	327883 362338
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	782	5	327883 362338



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	786	5	327856 362301
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	788	5	327855 362303
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	793	5	327852 362307
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (NW)	799	5	328032 362610
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 346.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (W)	805	5	327844 362319
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A10NW (NW)	811	5	327927 362451
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SW (NW)	812	5	327998 362538
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	816	5	327928 362461
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A10NW (NW)	816	5	327928 362461



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	817	5	327737 362052
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A10SW (W)	820	5	327734 362052
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SW (NW)	835	5	327961 362525
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 686.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A3NE (S)	856	5	328868 360890
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 177.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9SE (W)	883	5	327675 362082
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SE (W)	883	5	327675 362082



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Castle Cement Padeswood Limited Padeswood, Mold, Flintshire Castle Cement Not Supplied As Supplied	A12NW (NE)	0	2	329208 362411
169	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	A McAlpine Construction Limited Penyffordd Penyffordd Station Not Supplied As Supplied	A8SE (SE)	108	2	329558 361438
170	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	G Edwards Esquire Near Mold, Padeswood, Flintshire Padeswood Pool Not Supplied As Supplied	A10SW (W)	633	2	327917 361841
171	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Floods (Plant Hire) Limited Hartsheath, Pontyblyddyn Plas Newydd Farm Not Supplied As Supplied EAHLD15124 31st December 1987 9th January 1988 Deposited Waste included Inert Waste 0 Not Supplied 6835/0137 Not Supplied WD/8/31	A3NE (S)	718	2	328990 360992
172	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	G Scarfo and Son Padeswood Old Bridge Inn Not Supplied As Supplied	A9NE (W)	969	2	327654 362306

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Licensed Waste Ma	nagement Facilities (Landfill Boundaries)				
173	Name: Licence Number: Location: Licence Holder: Authority: Site Category: Max Input Rate: Licence Status: Issued: Positional Accuracy: Boundary Accuracy:	Padeswood Landfill 37012 Castle Cement Padeswood Ltd, Padeswood, Mold, Flintshire, CH7 4HB Castle Cement Padeswood Ltd Natural Resources Wales Industrial Waste Landfills Not Supplied Issued 4th November 1987 Positioned by the supplier As Supplied	A11SE (E)	0	2	328972 361972
174	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference: Positional Accuracy:	nagement Facilities (Locations) BP3594FN Padeswood Landfill, Castle Cement Padeswood Ltd, Padeswood, Mold, CH7 4HB Castle Cement Padeswood Ltd Not Supplied Natural Resources Wales Industrial Waste Landfills Effective 25th May 2016 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 10m	A12SW (E)	0	2	329157 362054
		nagement Facilities (Locations)				
174	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference: Positional Accuracy:	37012 Castle Cement Padeswood Ltd, Padeswood, Mold, CH7 4HB Castle Cement Padeswood Ltd Not Supplied Natural Resources Wales Industrial Waste Landfills Issued 4th November 1987 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 10m	A12SW (E)	0	2	329157 362054
	Licensed Waste Ma	nagement Facilities (Locations)				
175		Dyke Farm, Padeswood Lane, Mold, CH7 4HZ Trade Effluent Services Ltd Not Supplied Natural Resources Wales Mobile Plant Effective 7th June 2022 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 10m	A6NE (W)	359	2	328205 361804
475		nagement Facilities (Locations)	AGNE	250	0	200005
175	Licence Number: Location: Operator Name: Operator Location: Authority: Site Category: Licence Status: Issued: Last Modified: Expires: Suspended: Revoked: Surrendered: IPPC Reference: Positional Accuracy:	PAN-013348 Dyke Farm, Padeswood Lane, Mold, CH7 4HZ Trade Effluent Services Ltd Not Supplied Natural Resources Wales Mobile Plant Effective 1st April 2021 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 10m	A6NE (W)	359	2	328205 361804



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Lan	dfill Coverage				
	Name:	Flintshire Council - Has supplied landfill data		0	4	328763 361969
	Local Authority Rec	orded Landfill Sites				
176	Location: Reference: Authority: Last Reported Status: Types of Waste: Date of Closure: Positional Accuracy: Boundary Quality:	Old Padeswood Pool, Padeswood Not Supplied Flintshire Council, Environmental Health Department Unknown Glass Fibre, Furness Slag, Clinker, Demolition Not Supplied Positioned by the supplier Good	A10SW (W)	634	4	327915 361840
	Registered Landfill	Sites				
177	Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Castle Cement Ltd NOW-439-L (152/87) Castle Cement, Padeswood, MOLD, Flintshire, CH7 4HB 329100 362000 As Site Address Environment Agency Wales, North Area Landfill Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Only waste produced on site Site dormant 4th November 1987 152/87 (102/77) Not Given Manually positioned to the address or location Not Applicable Inert, Non-Tox. Waste Ex Cement Manuf. Inert/Non-Tox. Waste Ex Constrn Max. Waste Permitted By Licence Offcuts Of Ferrous/Non-Ferrous Metals Packaging Material Paper Plastic Spec. Waste (Epa'90:S62/1996 Regs)	A12SW (E)	0	3	329100 362000
		Waste Forming Polluting Leachate Waste In Containers				
	Registered Landfill					
177	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence: Positional Accuracy: Boundary Accuracy: Boundary Accuracy: Authorised Waste Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval	Padeswood, MOLD, Flintshire, CH7 4HB 329100 362000 As Site Address Environment Agency Wales, North Area Landfill Undefined Only waste produced on site Record supersededSuperseded 1st July 1977 Not Given NOW-439-L (152/87) Manually positioned to the address or location Not Applicable Canteen Waste Cement Waste Constr'N/Demol. Inert/Non-Haz/Non-Tox Non-Haz, Non-Toxic Waste Sewage Liquid Wastes	A12SW (E)	0	3	329100 362000



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Landfill	Sites				
178	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Alfred Mc Alpine Construction Ltd 149/86 Penyfford Station, Penyfford, Chester, Cheshire 329600 361400 Hooton, Ellesmere Port, Cheshire Environment Agency Wales, North Area Landfill Undefined Only waste produced on site Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st November 1986 Not Given Not Given Manually positioned to the address or location	A8SE (SE)	159	3	329600 361400
	Registered Landfill					
179	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Floods Plant Hire WD/ /8/31 Plas Newydd Farm Hartsheath, Pontblyddin, Padeswood, Mold, Flintshire 328900 360800 Deeside Industrial Estate, Deeside, Flintshire Environment Agency Wales, North Area Landfill Undefined No known restriction on source of waste Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st March 1986 Not Given Not Given Manually positioned to the address or location	A3SE (S)	930	3	328900 360800



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Description:	d Geology Millstone Grit Group [See Also Migr]	A11SE	0	1	328763
	BGS 1:625,000 Solid	d Geology	(W)			361969
	Description:	Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A15SE (N)	0	1	328903 362623
	BGS 1:625,000 Solie					
	Description:	Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A11SE (NE)	0	1	328797 362020
	BGS Recorded Mine					
180	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Padeswood Hall Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136904 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A16SE (NE)	0	1	329380 362729
	BGS Recorded Mine	eral Sites				
181	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Spon Green Mine Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255303 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A16NE (NE)	193	1	329464 362976
	BGS Recorded Mine	eral Sites				
181	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Spon Green Mine Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255302 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A16NE (NE)	199	1	329478 362988
	BGS Recorded Mine	eral Sites				
182	Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255298 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A16NE (NE)	352	1	329598 363146
	BGS Recorded Mine					
182	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255299 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A16NE (NE)	358	1	329639 363143



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Recorded Mine	eral Sites				
183	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Padeswood Lodge Padeswood, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 105560 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	A10NE (NW)	724	1	328072 362477
	BGS Recorded Mine	eral Sites				
184	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Camfa-Rhinallt Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136903 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Lower Coal Measures Formation Coal - Deep Located by supplier to within 10m	A6SW (SW)	818	1	328000 361311
	BGS Recorded Mine	eral Sites				
185	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Padeswood Gravel Pit Padeswood, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 11445 Opencast Ceased Unknown Operator Not Supplied Quaternary Glaciofluvial Ice Contact Deposits Sand and Gravel Located by supplier to within 10m	A9SE (W)	928	1	327645 362150
	BGS Recorded Mine	eral Sites				
186	Periodic Type: Geology: Commodity:	Coppa Colliery Padeswood, Mold, Flintshire British Geological Survey, National Geoscience Information Service 105083 Underground Ceased Unknown Operator Not Supplied Carboniferous Etruria Formation Coal - Deep Located by supplier to within 10m	A6SW (SW)	935	1	327770 361397
	Coal Mining Affecte	d Areas				
	Description:	In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A11SE (W)	0	6	328763 361969
	Mining Instability					
	Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	A11SE (W)	0	-	328763 361969
	Natural Cavities Easting: Northing: Distance: Quadrant Reference: Quadrant Reference: Bearing Ref: Cavity Type: Solid Geology Detail: Superficial Geology Detail:	SW NW Swallow Hole x 5 Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	A11SW (NW)	0	7	328600 362040



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 329230 Northing: 361640 Distance: 43 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Low Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology No Details	A8NW (SE) er	43	7	329230 361640
	Natural Cavities Easting: 329030 Northing: 361740 Distance: 59 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Low Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A7NE (SE) er	59	7	329030 361740
	Natural Cavities Easting: 328480 Northing: 362450 Distance: 355 Quadrant Reference: A11 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology No Details Detail: No	A11NW (NW)	355	7	328480 362450
	Natural Cavities Easting: 328660 Northing: 361428 Distance: 463 Quadrant Reference: A7 Quadrant Reference: SW Bearing Ref: S Cavity Type: Swallow Hole x 3 Solid Geology Detail: Carboniferous Limestone Supergroup, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone, Upper Coal Measures Superficial Geology No Details Detail: Karboniferous Limestone, Upper Coal Measures	A7SW (S)	463	7	328660 361428
	Natural Cavities Easting: 327820 Northing: 361990 Distance: 727 Quadrant Reference: A10 Quadrant Reference: SW Bearing Ref: W Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology Alluvium Detail: Cavity Type:	A10SW (W)	727	7	327820 361990
	Natural Cavities Easting: 327900 Northing: 361560 Distance: 739 Quadrant Reference: A6 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology No Details Detail: Karte Superficial Geology	A6NW (SW)	739	7	327900 361560



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 328480 Northing: 361050 Distance: 869 Quadrant Reference: A3 Quadrant Reference: NW Bearing Ref: S Cavity Type: Swallow Hole x 7 Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle C Measures, Millstone Grit Group, Upper Carboniferous Limestone No Details Superficial Geology No Details	A3NW (S)	869	7	328480 361050
	Natural Cavities Easting: 327680 Northing: 361700 Distance: 892 Quadrant Reference: A5 Quadrant Reference: NE Bearing Ref: W Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle C Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology No Details Detail: No Details	A5NE (W) Coal	892	7	327680 361700
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	1	328817 362077
	Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	124	1	328555 361635
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	1	328640 361930
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	183	1	328668 361714
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (S)	0	1	328765 361908
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	0	1	329284 362114
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (NE)	0	1	329217 362257
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	329383 361535
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	1	328640 361930
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	101	1	328449 361956
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	183	1	328668 361714



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	1	328987 361857
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (S)	0	1	328754 361914
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	1	328923 361917
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Very Low	A11SE	0	1	328763
	Source: British Geological Survey, National Geoscience Information Service Peterstial for Landslide Cround Stability Hazarda	(W)			361969
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low	A7NE	92	1	328737
	Source: British Geological Survey, National Geoscience Information Service	(S)			361794
	Potential for Landslide Ground Stability Hazards				000.455
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	118	1	328426 361927
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	120	1	328738 361766
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	134	1	328797 361739
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	179	1	328400 362028
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	250	1	328404 361715
	Potential for Running Sand Ground Stability Hazards				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Potential for Running Sand Ground Stability Hazards	(11)			001000
	Hazard Potential: Low	A11SW	0	1	328640
	Source: British Geological Survey, National Geoscience Information Service	(W)			361930
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low	A7NW	183	1	328668
	Source: British Geological Survey, National Geoscience Information Service	(S)	100	•	361714
	Potential for Shrinking or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Potential for Shrinking or Swelling Clay Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW	127	1	328626
	Potential for Shrinking or Swelling Clay Ground Stability Hazards	(SW)			361755
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	207	1	328880 361648
	Radon Potential - Radon Affected Areas	(-)			
	Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes	A12SW	0	1	329375
	Source: British Geological Survey, National Geoscience Information Service	(E)			362000
	Radon Potential - Radon Affected Areas				
	Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes	A11SE	0	1	328925
	Source: British Geological Survey, National Geoscience Information Service	(E)			361969
	Radon Potential - Radon Affected Areas				
	Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).	A11SE (SE)	0	1	328850 361925
	Source: British Geological Survey, National Geoscience Information Service				001020



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - R	adon Affected Areas				
	Affected Area: Source:	The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
	Radon Potential - R	adon Affected Areas				
	Affected Area: Source:	The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). British Geological Survey. National Geoscience Information Service	A11SE (E)	0	1	329025 361900
	Radon Potential - R	adon Affected Areas				
	Affected Area: Source:	The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	328763 362025
	Radon Potential - R	adon Protection Measures				
	Protection Measure:	No radon protective measures are necessary in the construction of new dwellings or extensions	A12SW (E)	0	1	329375 362000
	Source:	British Geological Survey, National Geoscience Information Service				
	Radon Potential - R	adon Protection Measures				
	Protection Measure: Source:	No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	A11SE (E)	0	1	328925 361969
	Radon Potential - R	adon Protection Measures				
		No radon protective measures are necessary in the construction of new dwellings or extensions	A11SE (SE)	0	1	328850 361925
	Source:	British Geological Survey, National Geoscience Information Service				
		adon Protection Measures				
	Protection Measure: Source:	Full radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	A11SE (W)	0	1	328763 361969
		adon Protection Measures				
		Basic radon protective measures are necessary in the construction of new dwellings or extensions	A11SE (E)	0	1	329025 361900
	Source:	British Geological Survey, National Geoscience Information Service				
	Radon Potential - Radon Protection Measures					
		No radon protective measures are necessary in the construction of new dwellings or extensions	A11SE (N)	0	1	328763 362025
	Source:	British Geological Survey, National Geoscience Information Service				



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Dublcheck Ltd Padeswood Hall, Chester Road, Padeswood, Mold, Clwyd, CH7 4JF Commercial Cleaning Services Inactive Automatically positioned to the address	A15SE (N)	0	-	328960 362574
188	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Hanson Cement Chester Road, Padeswood, Mold, Clwyd, CH7 4HB Cement Manufacturers & Distributors Active Automatically positioned to the address	A16SW (NE)	0	-	329086 362512
189	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries D Lawrence Homelea, Chester Road, Padeswood, Mold, Clwyd, CH7 4JF Car Dealers Inactive Automatically positioned to the address	A16SW (NE)	27	-	329102 362673
189	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries D M Autos Padeswood Service Station, Chester Road, Padeswood, Mold, CH7 4JF Garage Services Active Automatically positioned to the address	A16SW (NE)	43	-	329144 362699
190	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Foulkes C A 2, Bannel Bridge, Bannel Lane, Buckley, Clwyd, CH7 3BD Cladding Suppliers & Installers Inactive Automatically positioned to the address	A16NE (NE)	231	-	329604 363021
191	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Arctic Scaffold Co Ltd Unit 1, Bannel Lane, BUCKLEY, Clwyd, CH7 3AP Scaffolding & Work Platforms Inactive Automatically positioned to the address	A16NE (NE)	283	-	329572 363080
191	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Arctic Scaffolding Co Ltd Unit 1, Bannel Lane, Buckley, CH7 3AP Scaffolding & Work Platforms Inactive Automatically positioned to the address	A16NE (NE)	284	-	329569 363081
192	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries H E Bartley Spon Green Farm, Spon Green, Buckley, CH7 3BN Dairies Inactive Automatically positioned to the address	A15NW (N)	479	-	328660 363027
193	Fuel Station Entries Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Padeswood Service Station Chester Road , Padeswood , Mold, Flintshire, CH7 4JF Bfl Not Applicable Obsolete Manually positioned to the address or location	A16SW (NE)	40	-	329143 362696



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 31190 4187.8 Ancient and Semi-Natural Woodland	A11SW (W)	120	2	328442 361984
195	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 37620 5379.6 Restored Ancient Woodland Site	(SE)	566	2	329853 361077
196	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 29375 32517.52 Ancient and Semi-Natural Woodland	A14SW (NW)	675	2	328024 362546
197	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 34470 6668.71 Ancient and Semi-Natural Woodland	A6SE (SW)	693	2	328346 361257
198	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 37621 7835.64 Restored Ancient Woodland Site	A3NW (S)	794	2	328489 361124
199	Nitrate Vulnerable Z Name: Description: Source:	Zones Not Supplied Surface Water Natural Resources Wales	A12SE (E)	19	2	329580 362001
200	Nitrate Vulnerable Z Name: Description: Source:	Cones Pulford Brook Nvz Surface Water Environment Agency, Head Office	A12SE (E)	63	8	329600 361969
201	Sites of Special Sci Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Buckley Claypits And Commons Y 997584.56 Natural Resources Wales 259231wwd	(N)	906	2	329346 363690
202	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	nservation Deeside And Buckley Newt Sites Y 2071227.49 Natural Resources Wales Uk0030132 Designated	(N)	906	2	329346 363690



		Update Cycle
ontaminated Land Register Entries and Notices		
atural Resources Wales	June 2020	Annually
intshire Council - Environmental Health Department	October 2017	Annual Rolling Update
ischarge Consents		
nvironment Agency - Welsh Region	August 2014	Quarterly
atural Resources Wales	July 2022	Quarterly
nforcement and Prohibition Notices		
nvironment Agency - Welsh Region	March 2013	
tegrated Pollution Controls		
nvironment Agency - Welsh Region	January 2009	
tegrated Pollution Prevention And Control		
nvironment Agency - Welsh Region	January 2021	Quarterly
atural Resources Wales	October 2022	Quarterly
ocal Authority Integrated Pollution Prevention And Control		,
intshire Council - Environmental Health Department	April 2016	Variable
	7,011 2010	Valiable
ocal Authority Pollution Prevention and Controls	A ====1 0040	Annual Dalling Lindata
intshire Council - Environmental Health Department	April 2016	Annual Rolling Update
ocal Authority Pollution Prevention and Control Enforcements		
intshire Council - Environmental Health Department	April 2016	Variable
earest Surface Water Feature		
rdnance Survey	September 2022	
ollution Incidents to Controlled Waters		
nvironment Agency - Welsh Region	December 1998	
rosecutions Relating to Authorised Processes		
nvironment Agency - Welsh Region	July 2015	
atural Resources Wales	July 2015	
rosecutions Relating to Controlled Waters		
nvironment Agency - Welsh Region	March 2013	
atural Resources Wales	March 2013	
egistered Radioactive Substances		
atural Resources Wales	January 2015	
nvironment Agency - Welsh Region	June 2016	As notified
iver Quality		
nvironment Agency - Head Office	November 2001	Not Applicable
iver Quality Biology Sampling Points		
nvironment Agency - Head Office	April 2012	
iver Quality Chemistry Sampling Points	April 2012	
nvironment Agency - Head Office	April 2012	
ubstantiated Pollution Incident Register		
nvironment Agency Wales - North Area	January 2021	Quarterly
atural Resources Wales	October 2022	Quarterly
ater Abstractions		_
atural Resources Wales	July 2022	Quarterly
nvironment Agency - Welsh Region	October 2022	Quarterly
ater Industry Act Referrals		
atural Resources Wales	July 2022	Quarterly
nvironment Agency - Welsh Region	October 2017	
roundwater Vulnerability Map		
atural Resources Wales	June 2018	As notified
edrock Aquifer Designations		
atural Resources Wales	January 2018	Annually



Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences	Contornhor 2020	
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2010	Querterly
	November 2019	Quarterly
Flood Water Storage Areas	August 2010	Quartarly
Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
		Quarterry
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
	101ay 2013	As notified
Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021 October 2022	Quarterly
Environment Agency Wales - North Area		Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - North Area	huby 2021	Quartarly
Natural Resources Wales	July 2021 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage	00.9 _0	
Flintshire Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Flintshire Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - North Area	June 2015	
		1



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)	4 4 4 9 9 9 4	
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Flintshire Council	January 2016	Variable
	January 2016	Variable
Planning Hazardous Substance Consents Flintshire Council	Jonuany 2016	Variable
	January 2016	Valiable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	September 2022	Annually



Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	October 2022	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines		
National Grid	October 2021	Bi-Annually
Underground Electrical Cables		
National Grid	May 2021	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Flintshire Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites	hub. 2010	
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest	March 0000	
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually



A selection of organisations who provide data within this report

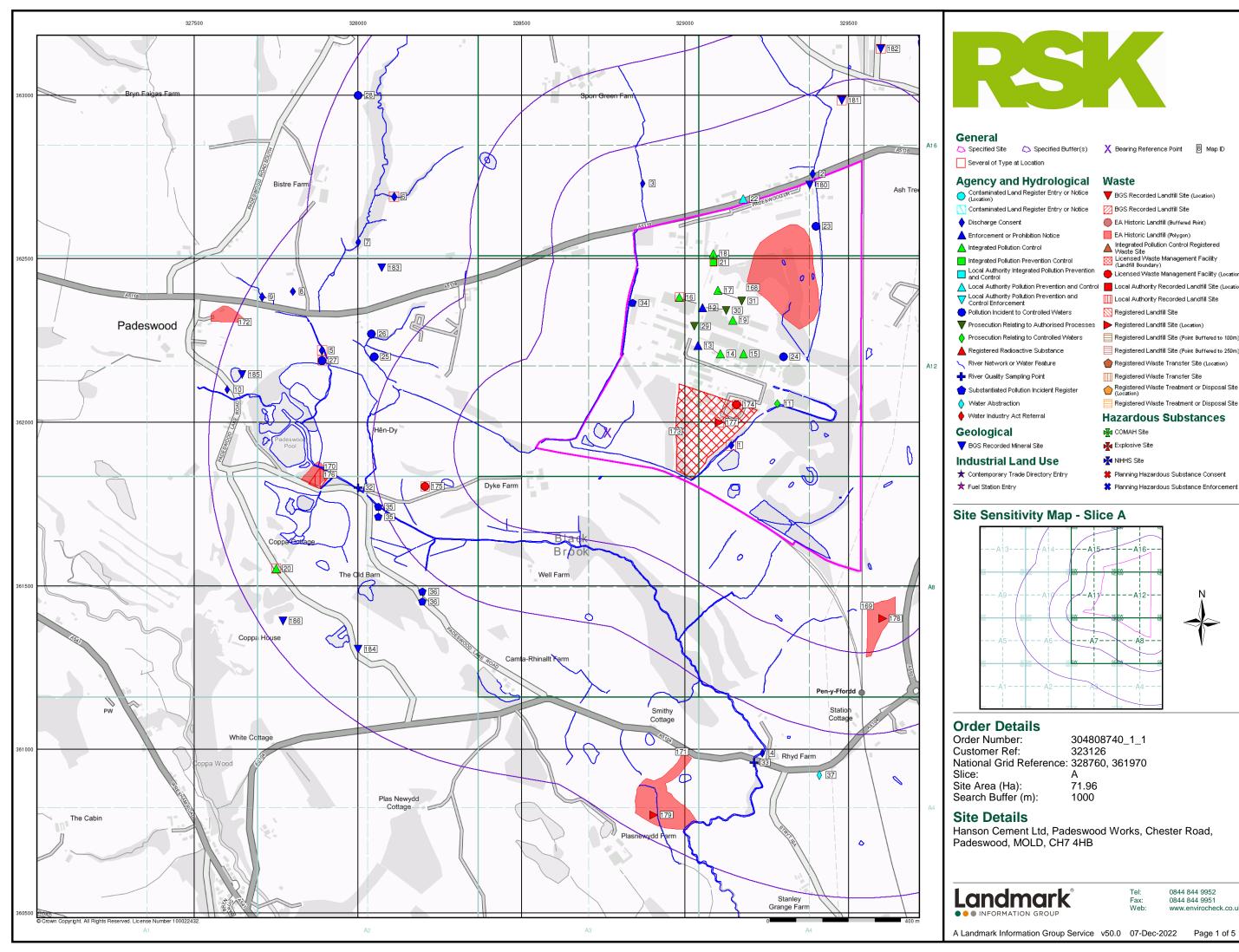
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SECTISH Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE 迎公派訊
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	Stantec



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC)	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
	PO Box 544, Templeborough, Rotherham, S60 1BY	
4	Flintshire Council - Environmental Health Department County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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





General

Specified Site	Specified Buffer(s)	X	Bearing Reference Point	8
Several of Type a	at Location			
Agency and	l Hydrological	Wa	aste	
Contaminated Lan	nd Register Entry or Notice	T e	BGS Recorded Landfill Site	(Loca
Contaminated Lan	nd Register Entry or Notice		BGS Recorded Landfill Site	
🔶 Discharge Consei	nt		EA Historic Landfill (Buffered	Point
A Enforcement or P	rohibition Notice	E	EA Historic Landfill (Polygon)	
A Integrated Pollutio	n Control		ntegrated Pollution Control I Naste Site	Regis
-	n Prevention Control	I ISS	Licensed Waste Manageme (Landfill Boundary)	ent Fa
Local Authority In and Control	tegrated Pollution Prevention	e i	icensed Waste Manageme	nt Fa
A Local Authority Po	ollution Prevention and Control	– L	ocal Authority Recorded L	andf
Control Enforcem	ollution Prevention and ent	III I	ocal Authority Recorded L	andf
OPollution Incident t	to Controlled Waters	S F	Registered Landfill Site	
V Prosecution Relat	ing to Authorised Processes	F	Registered Landfill Site (Loc	ation)
🔶 Prosecution Relat	ing to Controlled Waters	F	Registered Landfill Site (Poir	nt Buf
🔺 Registered Radioa	active Substance	F	Registered Landfill Site (Poir	nt Buf
🥄 River Network or 1	Water Feature	۹ 🕐	Registered Waste Transfer	Site
🕂 River Quality Sam	pling Point	F	Registered Waste Transfer	Site
合 Substantiated Poll	lution Incident Register		Registered Waste Treatmer Location)	it or l
🔶 Water Abstractio	n	F	Registered Waste Treatmer	nt or l
🔶 Water Industry Ad	ct Referral	На	zardous Subs	tar
Geological		%	COMAH Site	
BGS Recorded Mi	ineral Site	💑 E	Explosive Site	
Industrial	and Llea	No N		

Industrial Land Use

- ★ Contemporary Trade Directory Entry
- 🖈 Fuel Station Entry

Site Sensitivity Map - Slice A

N -Ai ·A7-

Order Details

Order Number:
Customer Ref:
National Grid Reference
Slice:
Site Area (Ha):
Search Buffer (m):

304808740_1_1 323126 ce: 328760, 361970 A 71.96 1000

Tel: Fax: Web:

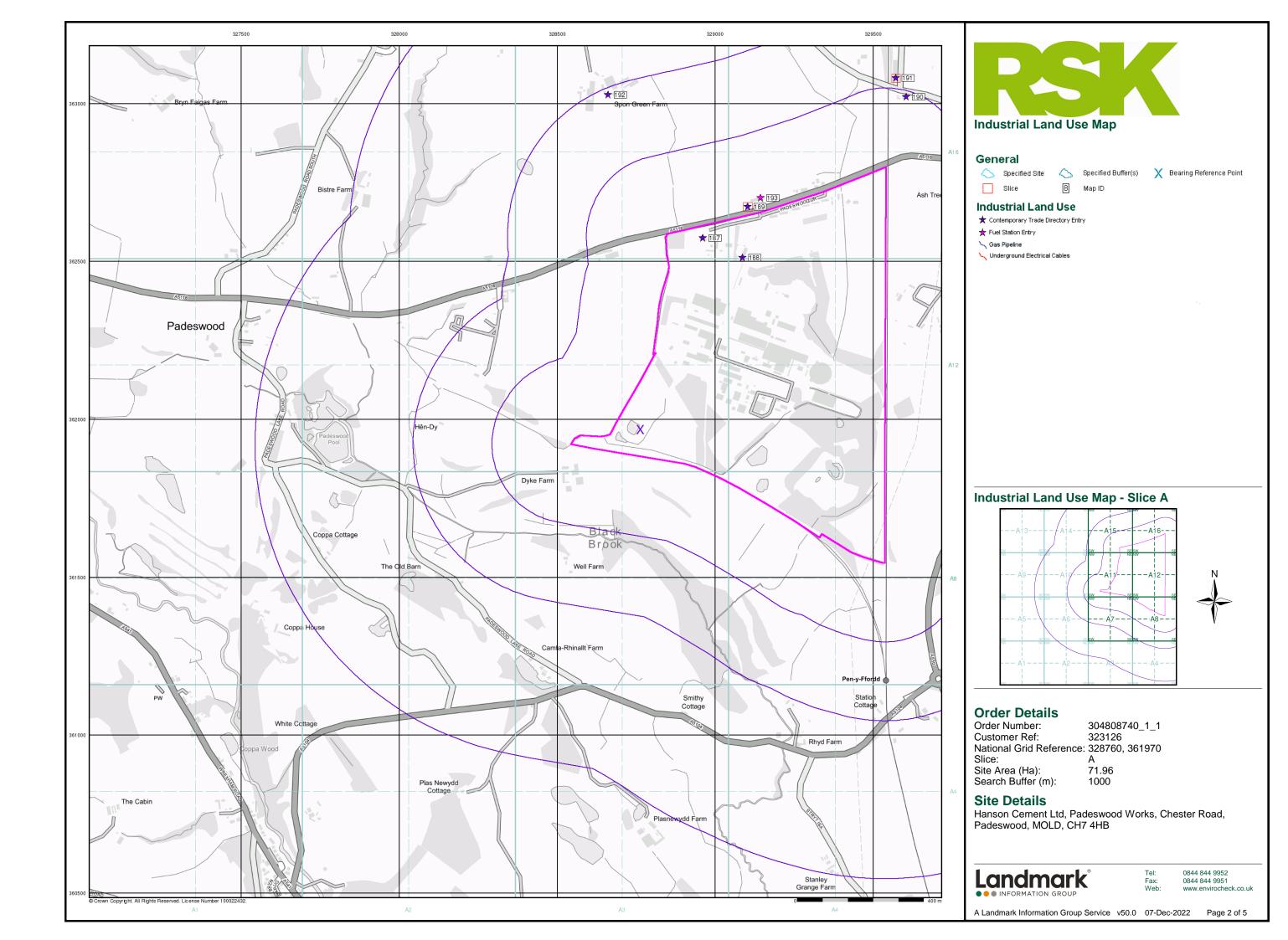
Site Details

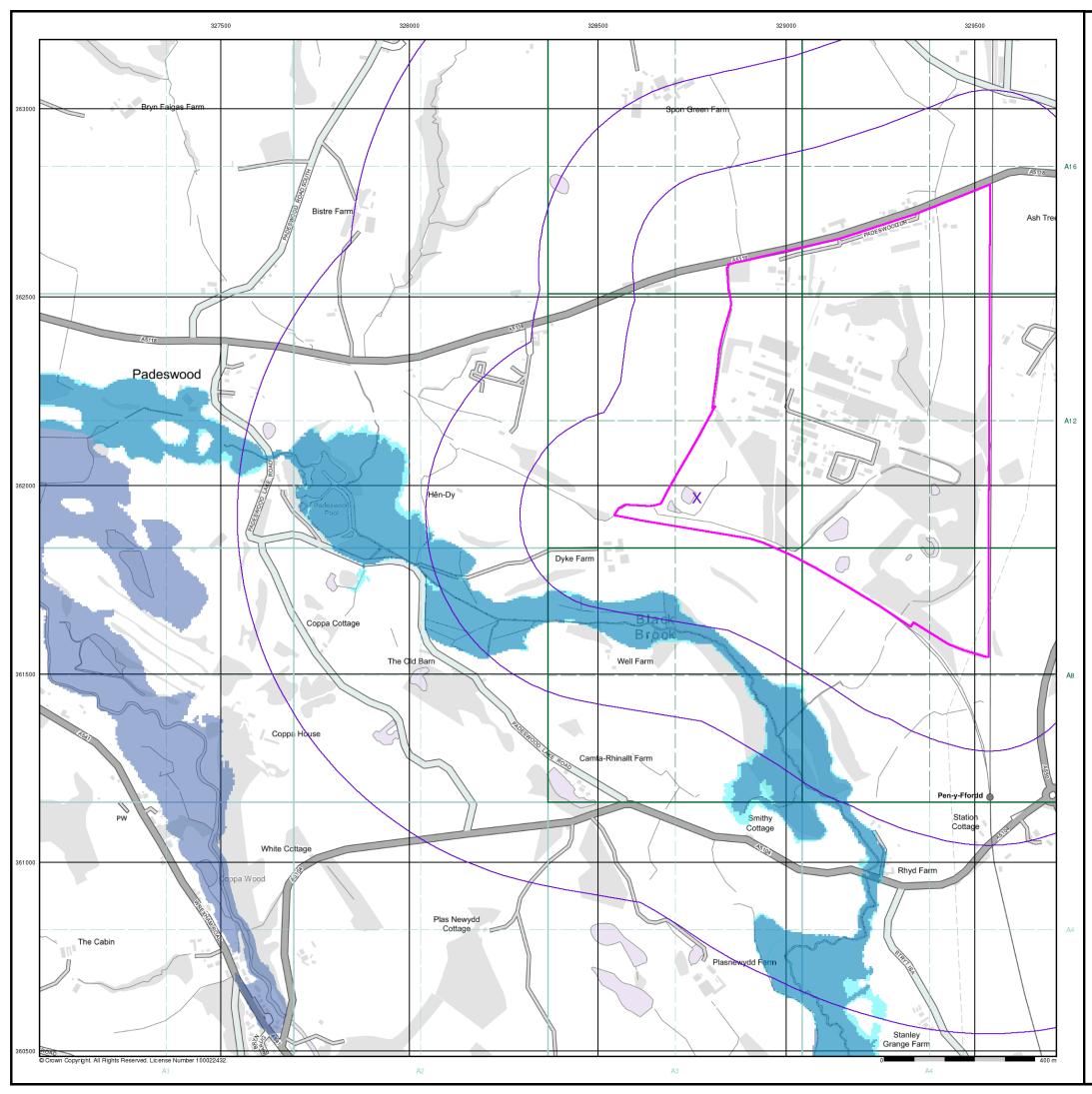
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



Map ID

🗱 Planning Hazardous Substance Enforcement







General

🔼 Specified Site

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

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

Flooding from Rivers or Sea without Defences (Zone 3)

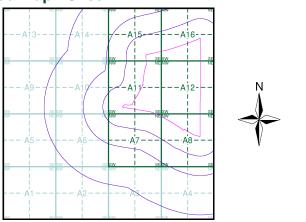
Area Benefiting from Flood Defence



Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 А 71.96 1000

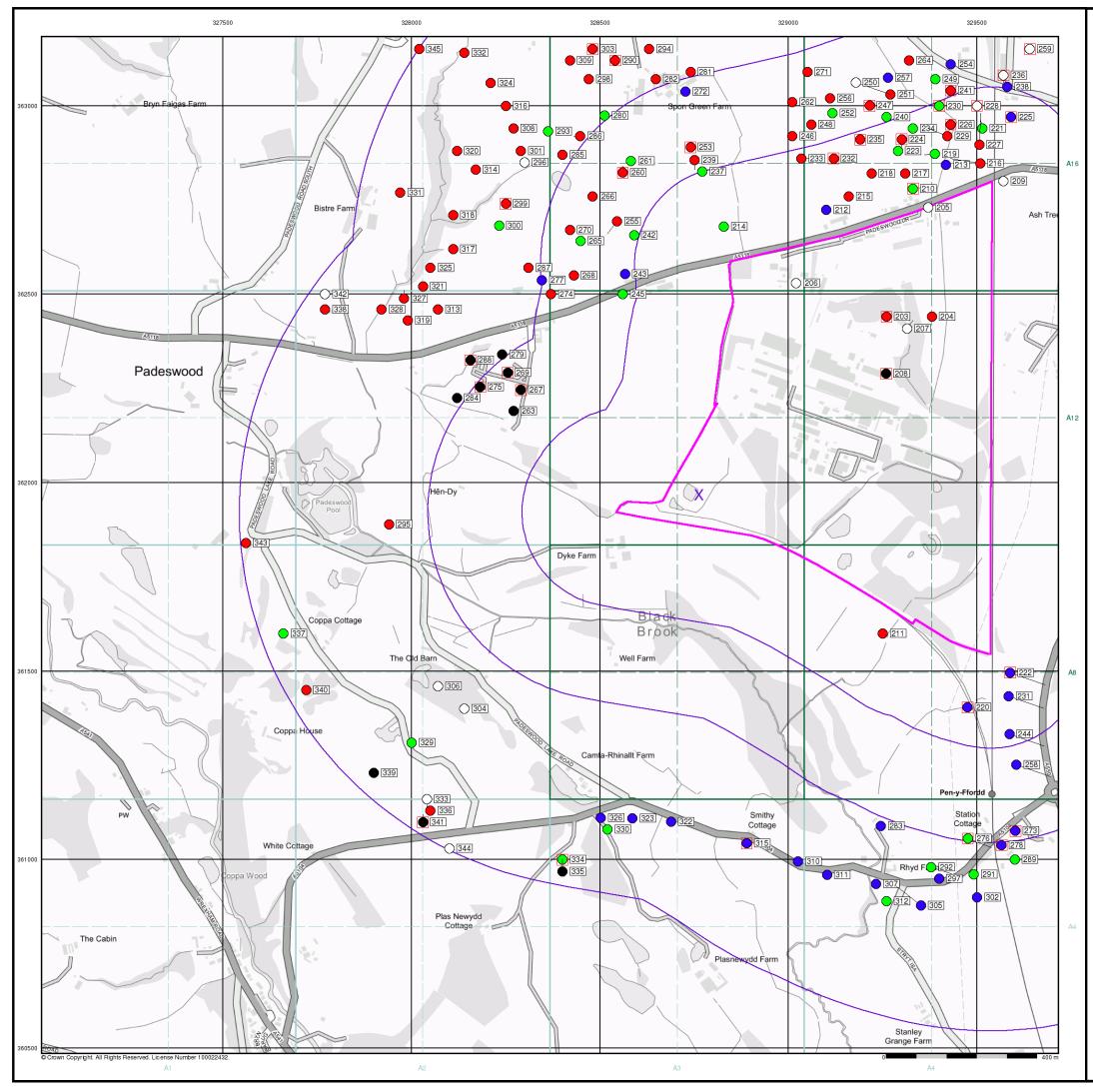
Site Details

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





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







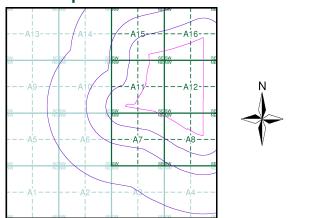
Agency and Hydrological (Boreholes)

- 😑 BGS Borehole Depth 0 10m
- 🔵 BGS Borehole Depth 10 30m
- 🔴 BGS Borehole Depth 30m + Confidential
- Other

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

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

Borehole Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 328760, 361970 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 Α 71.96 1000

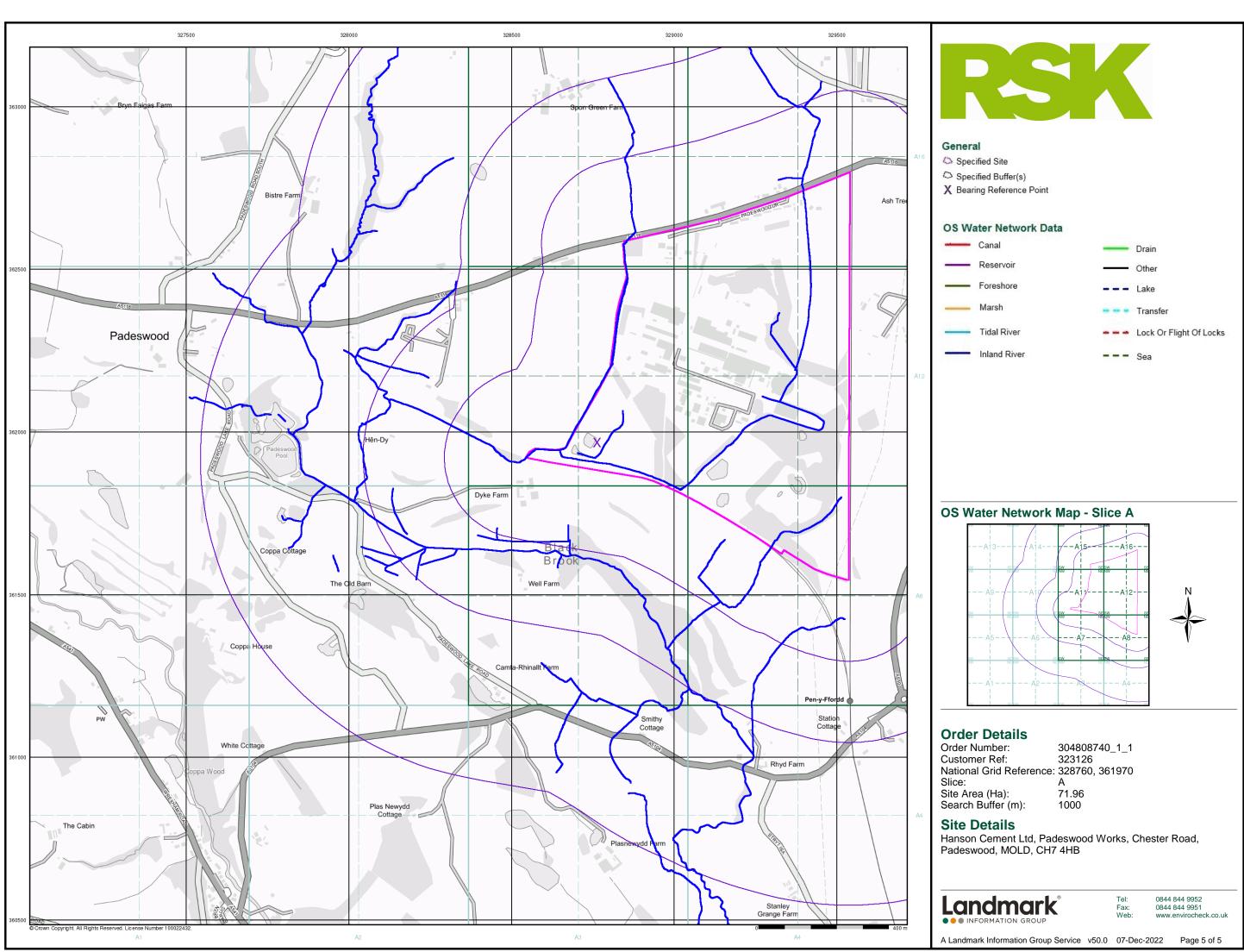
Site Details

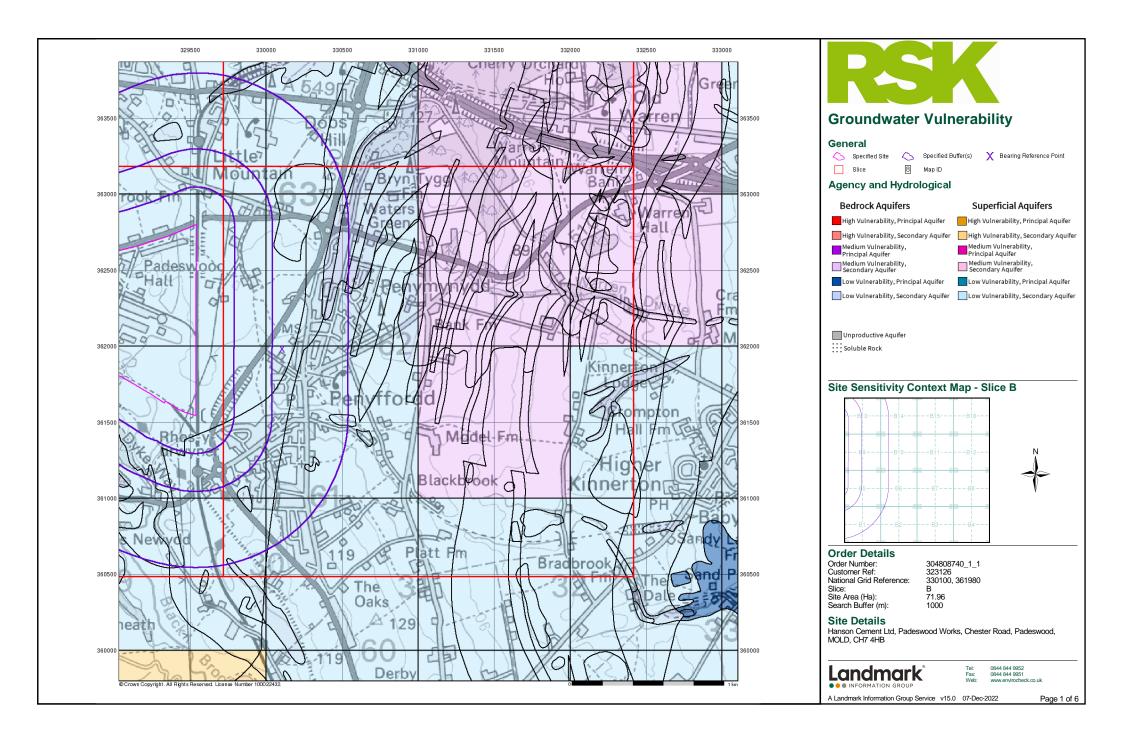
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

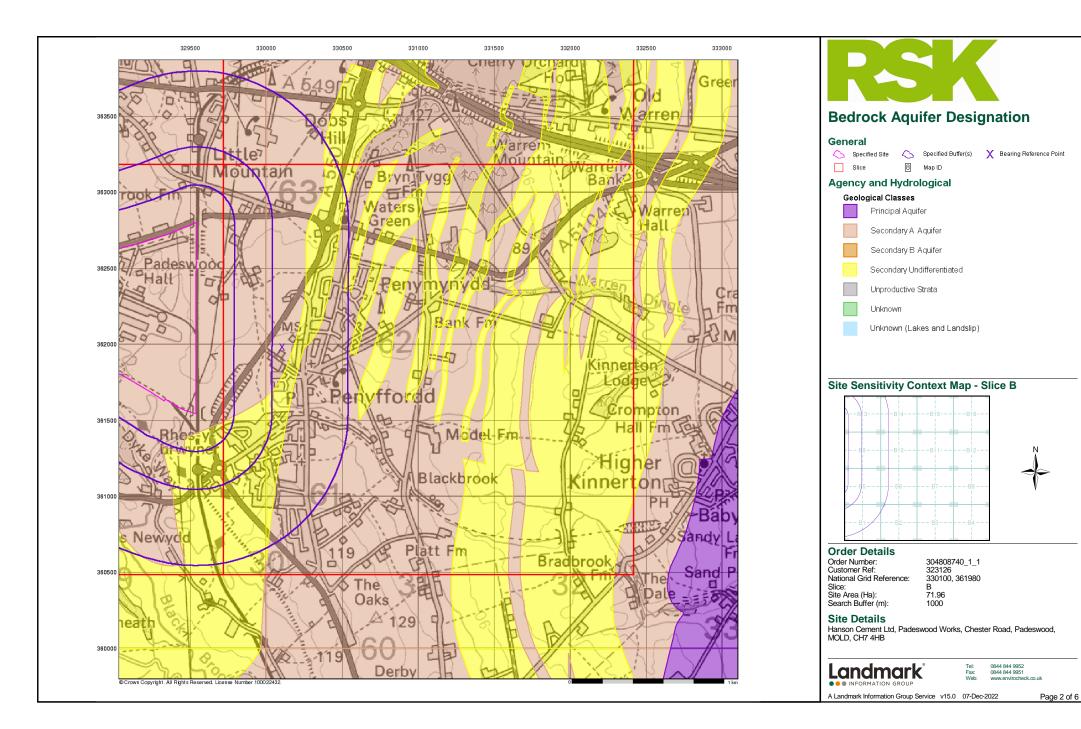


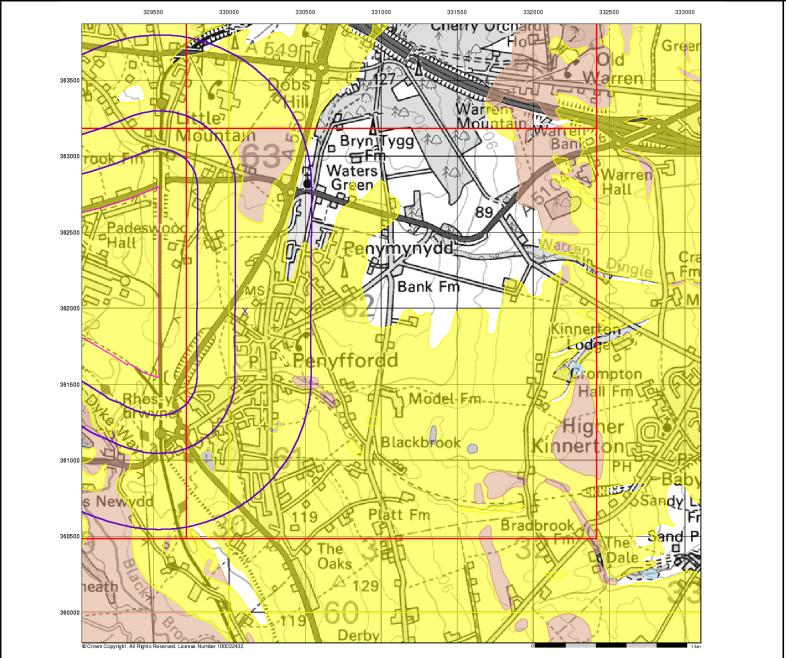


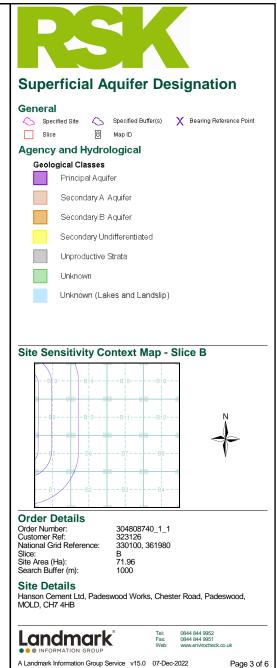
0844 844 9952 0844 844 9951 www.envirocheck.co.uk

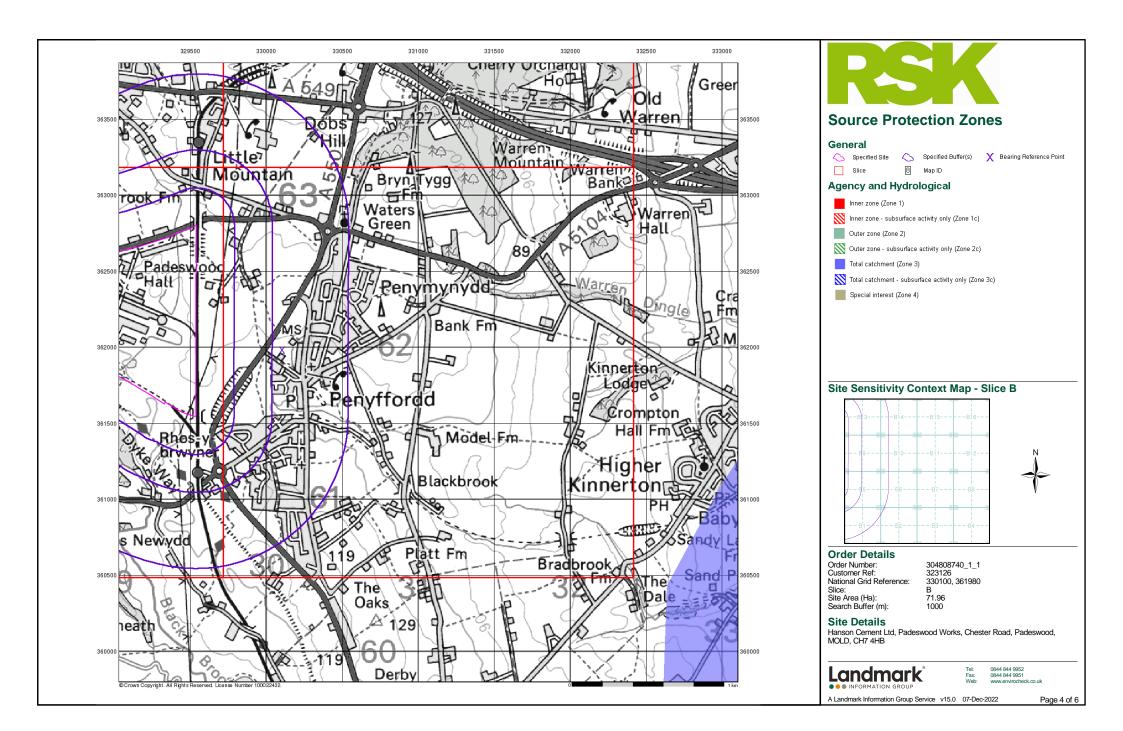


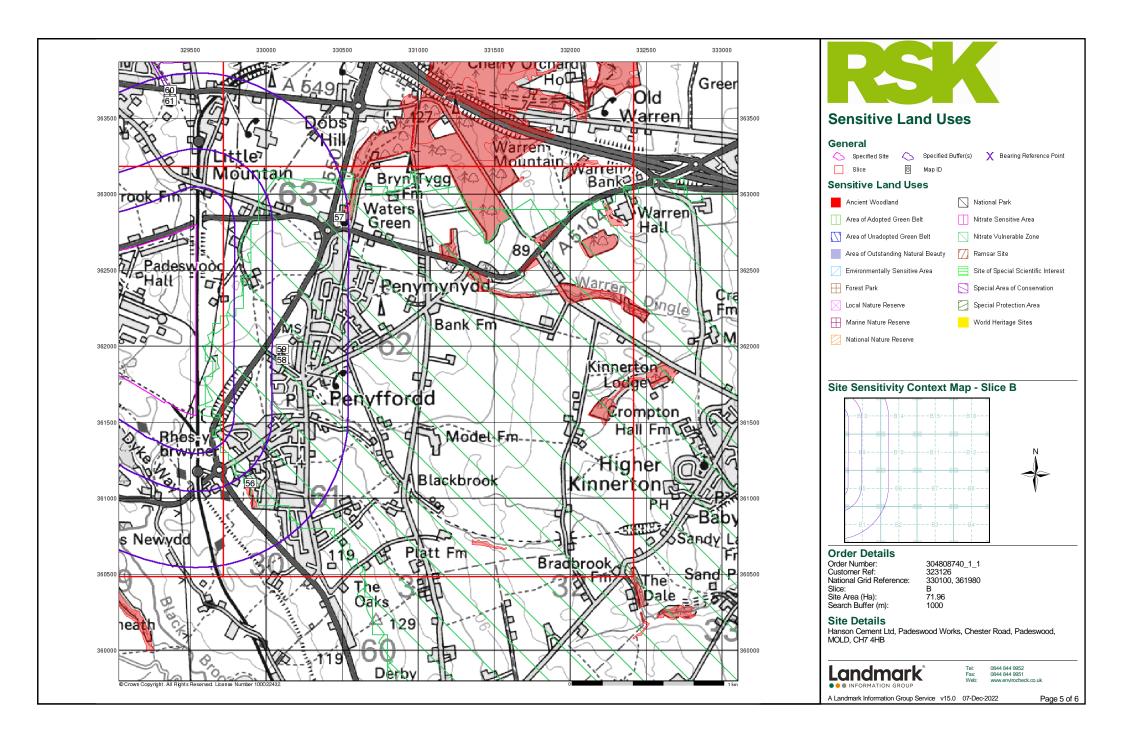


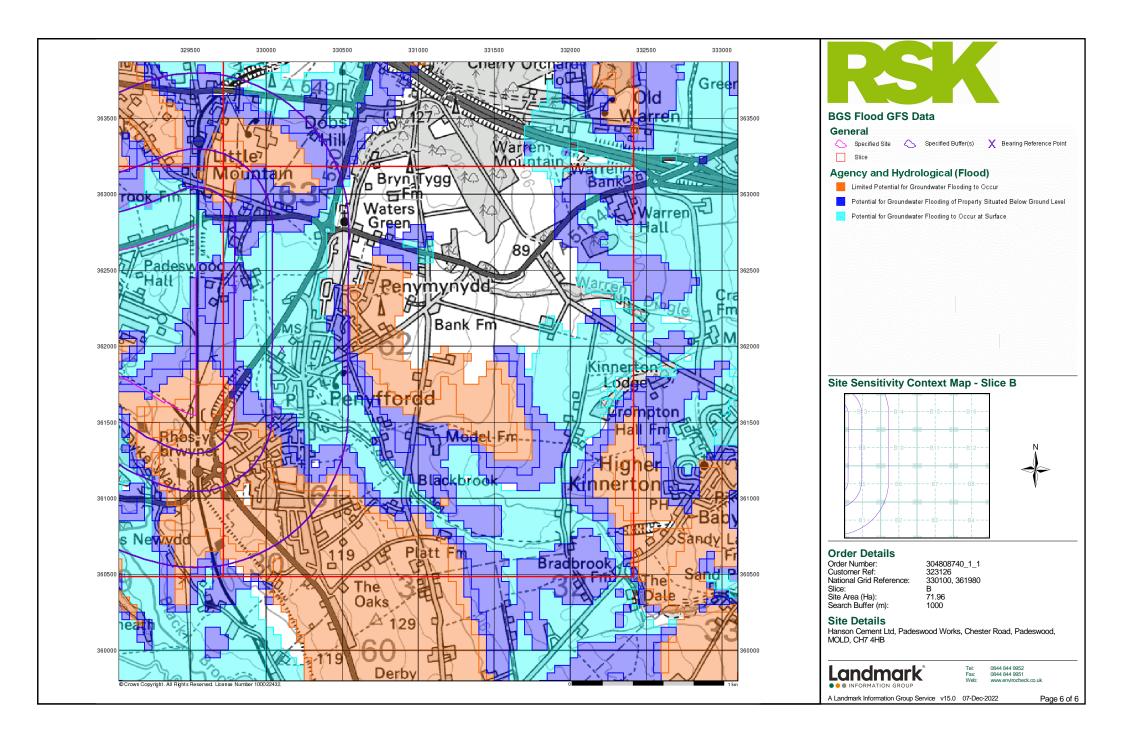














Envirocheck® Report:

Datasheet

Order Details:

Order Number: 304808740_1_1

Customer Reference: 323126

National Grid Reference: 330100, 361980

Slice: B

Site Area (Ha): 71.96

Search Buffer (m): 1000

Site Details:

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

Client Details:

Mrs F Clayton RSK Environment Ltd Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR





Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	13
Industrial Land Use	15
Sensitive Land Use	16
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Data Suppliers	22
Useful Contacts	23

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

Tor this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		1	1	
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 4			2	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 4				1
Water Abstractions	pg 5		1	6	3 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 8	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 9			11	15



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 12				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 12	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 12				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 13	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 13	Yes	n/a	n/a	n/a
Mining Instability	pg 13	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 13				2
Non Coal Mining Areas of Great Britain	pg 13	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 14	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 14	Yes	n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15			2	9
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 16				2
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 16		2		
Ramsar Sites					
Sites of Special Scientific Interest	pg 16				1
Special Areas of Conservation	pg 16				1
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	329050 361980
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	329150 362000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	329150 361980
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B9SW (W)	0	1	330000 361980
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW	0	1	329750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) (W)	0	1	361800 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	362050 329450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9SW	0	1	361850 329900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) (W)	0	1	361850 329050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	361900 329650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	361980 329200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	361980 329050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	362050 329050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	361950 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	361950 329150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW	0	1	361950 329750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) B9SW	12	1	361750 329750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW) (SW)	65	1	362150
	BGS Groundwater Flooding Susceptibility				361600
	Flooding Type: Limited Potential for Groundwater Flooding to Occur BGS Groundwater Flooding Susceptibility Flooding Type: Detected for Groundwater Flooding to Occur	B5NW (SW)	78	1	329800 361650
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level BGS Groundwater Flooding Susceptibility	B13SW (N)	79	1	329900 362600
	Flooding Type: Limited Potential for Groundwater Flooding to Occur BGS Groundwater Flooding Susceptibility	(SW)	93	1	329200 361600
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	114	1	329700 361900



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	114	1	329450 361450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	129	1	329300 361500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	148	1	329250 361500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13SW (N)	149	1	329900 362750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	163	1	329650 362950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B9SW (SW)	164	1	329800 361850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	171	1	329050 361600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (N)	187	1	329800 362950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N) (SW)	188	1	329100 361550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	200	1	329250 362900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	201	1	329550 363000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	201	1	329600 363000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW	214	1	329800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW) B5NW	214	1	361750 329850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW) (SW)	309	1	361750 329300 361300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	329	1	329150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	351	1	361350 329600 363150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	356	1	363150 329100 361350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	363	1	361350 329450 263150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	397	1	363150 329200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	411	1	361250 329450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	416	1	363200 329150 361250



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	420	1	329250 361200
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	422	1	329150 363100
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	(N)	432	1	329850 363200
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	447	1	329300 361150
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	(NW)	460	1	329450 363250
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding to Occur at Surface	B9SE (NW)	460	1	330105 361980
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	B13SE (N)	460	1	330105 362750
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	B5NW (S)	463	1	330050 361650
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	463	1	329300 363200
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	B5NE (S)	465	1	330100 361500
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	B5SW (S)	473	1	330050 361450
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	(SW)	479	1	329350 361100
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Limited Potential for Groundwater Flooding to Occur	(NW)	485	1	329100 363150
	BGS Groundwater F Flooding Type:	Flooding Susceptibility Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	494	1	329300 361100
1	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Environment: Receiving Water: Status: Dasitional Accuracy	s Astbury A (Bldrs.Co'Trs) Ltd Undefined Or Other Penyffordd Rhos Rd. Rhos-Y-Brwyner, Rhos Rd. Rhos-Y-Brwyner Housing, Rhos-Y-Brwyner Housing Estate Natural Resources Wales River Dee Cm0039301 1 23rd January 1967 23rd January 1967 23rd January 1967 2nd February 1994 Unspecified Not Supplied Un-Named Trib. Of Black Brook Consent expired Located by supplier to within 10m	B5NW (SW)	244	2	329780 361530



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	S David Edwards Domestic Property (Single) Wentworth, Bannell Lane, Penymynydd, Chester, Ch4 0ep Natural Resources Wales PULFORD BROOK Bb3499ce 1 10th December 2019 10th December 2019 Not Supplied Sewage Discharges - Final/Treated Effluent - Not Water Company Lake/Reservoir - with outlet Pond Draining To Uunamed Trib Of Brad Brook Effective Located by supplier to within 10m	B13NW (N)	438	2	329957 362933
	Nearest Surface Wa	ter Feature	B9SW (W)	249	-	329796 361895
3	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Private Sewage (Non-PLC): Other Padeswood Environment Agency, Welsh Region Oils - Diesel (Including Agricultural) Inadequate Design/Capacity 10th March 1992 3318 Not Given Not Given Not Given Direct Discharge Category 3 - Minor Incident Located by supplier to within 100m	B13SW (N)	360	3	329900 362800
4	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Location Description Not Available Environment Agency, Welsh Region Sewage - Septic Tank Effluent Not Supplied 11th February 1997 31442 Not Given Not Given Unknown Category 3 - Minor Incident Located by supplier to within 100m	B13SW (N)	461	3	330001 362801
5	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given CROSSROADS Environment Agency, Welsh Region Farm Effluent/Slurry Not Supplied 15th June 1995 24432 Not Given Not Given Unknown Category 2 - Significant Incident Located by supplier to within 100m	B5NE (S)	665	3	330200 361500
6	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact:	tion Incident Register Natural Resources Wales 16th September 2014 1277965 Category 4 - No Impact Category 4 - No Impact Category 4 - No Impact Located by supplier to within 10m Atmospheric Pollutants And Effects: Dust	B5NE (SE)	780	2	330316 361810



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Miss F Hewitt 24/67/9/0051 100 Well C Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B9NW (NW)	202	3	329740 362230
8	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Positional Accuracy:	Mr R Scott 24/67/8/0001 100 Well Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 29th March 1966 Not Supplied Located by supplier to within 100m	B13SW (NW)	270	3	329810 362690
9	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Miss F Hewitt 24/67/9/0051 100 Well A Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B9NW (NW)	361	3	329900 362430
10	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Positional Accuracy:	Mr H Johnson 24/67/9/0055 Not Supplied Location Description Not Available Environment Agency, Welsh Region Agriculture (General) Not Supplied Well And Borehole 0 0 Well A Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	B9NW (N)	361	3	329900 362501



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Positional Accuracy:	Mr H Johnson 24/67/9/0055 Not Supplied Location Description Not Available Environment Agency, Welsh Region Agriculture (General) Not Supplied Well And Borehole 0 0 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	B9NW (N)	411	3	329950 362490
12	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Miss F Hewitt 24/67/9/0051 100 Well B Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Well A 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B9NW (N)	441	3	329980 362415
13	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mr R Higgins 24/67/8/0009 100 Well C Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B1NW (SW)	495	3	329730 361090
14	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mr R Higgins 24/67/8/0009 100 Well D Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B1NW (S)	512	3	329790 361100



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Miss F Hewitt 24/67/9/0051 100 Well D Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B9NE (N)	581	3	330120 362361
16	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Mr L Hewitt 24/67/9/0050 100 Well Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th January 1993 Not Supplied Located by supplier to within 100m	B5NE (SE)	644	3	330180 361820
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Wrench Bros 24/67/9/0048 100 Well C Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B2NW (SE)	1248	3	330660 361001
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Jealy Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Wrench Bros 24/67/9/0048 100 Well A Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m	B2SE (SE)	1443	3	330760 360780



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions					
	Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3):	Wrench Bros 24/67/9/0048 100 Well B Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied	B2NE (SE)	1457	3	330850 360915
	Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date:	Well A 01 January 31 December 5th July 1966 Not Supplied Located by supplier to within 100m				
	Water Abstractions					
		Mr L Hewitt 24/67/8/0011 100 Well Environment Agency, Welsh Region General Farming And Domestic Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied O1 January 31 December 5th January 1993 Not Supplied Located by supplier to within 100m	(S)	1540	3	330210 360160
	Groundwater Vulne				_	
	Combined Classification: Combined Vulnerability:	Secondary Superficial Aquifer - Low Vulnerability Low	B9SW (W)	0	2	330000 361980
	Combined Áquifer: Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial Patchiness: Superficial Thickness: Superficial Recharge:	Productive Bedrock Aquifer, Productive Superficial Aquifer Low Well Connected Fractures 300-550 mm/year <40% >90% >10m Low				
	Groundwater Vulne	rability Map				
	Combined Classification: Combined Vulnerability: Combined Aquifer: Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial Patchiness: Superficial Thickness: Superficial Recharge:	Secondary Superficial Aquifer - Low Vulnerability Low Productive Bedrock Aquifer, Productive Superficial Aquifer Low Well Connected Fractures 300-550 mm/year <40% >90% >10m Low	B9SW (W)	0	2	330000 362000
	Bedrock Aquifer De Aquifer Designation:	signations Secondary Aquifer - A	B9SW (W)	0	2	330000 361980
	Superficial Aquifer Aquifer Designation:	Designations Secondary Aquifer - Undifferentiated	B9SW (W)	0	2	330000 361980
	Extreme Flooding fr	rom Rivers or Sea without Defences				
	Flooding from River	rs or Sea without Defences				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 442.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9SW (W)	374	4	329949 361992
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B5NW (SW)	381	4	329918 361750
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9SE (SW)	412	4	330057 361914
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9NW (N)	431	4	329970 362412
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9NW (N)	449	4	329988 362472
22	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9NW (N)	452	4	329991 362476
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B9NW (N)	455	4	329994 362483
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SW (N)	463	4	330003 362529



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SW (N)	464	4	330004 362524
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SW (N)	487	4	330035 362683
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SW (N)	495	4	330035 362683
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	B13SE (N)	562	4	330103 362809
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SE (N)	563	4	330103 362809
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B1NW (S)	567	4	329846 361070
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B13SE (N)	571	4	330110 362830
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 177.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B9SE (E)	623	4	330163 361964
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B5NE (SE)	638	4	330174 361830



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 440.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B9SE (E)	649	4	330186 361998
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B5NE (S)	705	4	330242 361558
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B9NE (NE)	794	4	330332 362414
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 169.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B9NE (NE)	816	4	330355 362451
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 203.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B6NW (SE)	879	4	330415 361697
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B6SW (SE)	944	4	330483 361494
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B6NW (SE)	944	4	330480 361508
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	B6SW (SE)	947	4	330483 361494
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 322.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	B6SW (SE)	949	4	330484 361495



Waste

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Historical Landfill S	ites				
43	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:		B1NW (S)	561	2	329844 361072
	Local Authority Lan	dfill Coverage				
	Name:	Flintshire Council - Has supplied landfill data		0	5	330105 361980
	Registered Landfill	Sites				
44	Licence Holder: Licence Reference: Site Location: Licence Easting: Licence Northing: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Status: Dated: Preceded By Licence: Superseded By Licence:	Alfred Mc Alpine Construction Ltd 148/86 Rhos-Y Bryniau Farm, Rhos Road, Penyfford, Chester, Cheshire 329870 361000 Hooton, Ellesmere Port, Cheshire Environment Agency Wales, North Area Landfill Undefined Only waste produced on site Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled 1st November 1986 Not Given Not Given Manually positioned to the address or location	B1NW (S)	639	3	329870 361000



Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Description:	I Geology Millstone Grit Group [See Also Migr]	B9SE (NW)	0	1	330105 361980
	Coal Mining Affecte Description:	d Areas In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	B9SE (NW)	0	6	330105 361980
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	B9SW (W)	0	-	330000 362000
	Natural Cavities Easting: Northing: Distance: Quadrant Reference: Bearing Ref: Cavity Type: Solid Geology Detail: Superficial Geology Detail:	NW S Swallow Hole Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Lower Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	B1NW (S)	628	7	329880 361020
	Natural Cavities Easting: Northing: Distance: Quadrant Reference: Bearing Ref: Cavity Type: Solid Geology Detail: Superficial Geology Detail:	SE S Swallow Hole x 3 Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Lower Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone	B5SE (S)	820	7	330370 361270
	Non Coal Mining Ar Risk: Source:	eas of Great Britain Rare British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Non Coal Mining Ar Risk: Source:	.	B5NW (S)	124	1	330000 361652
	Potential for Collaps Hazard Potential: Source:	sible Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Potential for Compr Hazard Potential: Source:	essible Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Potential for Ground Hazard Potential: Source:	d Dissolution Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Potential for Landsl Hazard Potential: Source:	ide Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Potential for Runnir Hazard Potential: Source:	ig Sand Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Potential for Shrink Hazard Potential: Source:	ing or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
		adon Affected Areas The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Radon Potential - Radon Affected Area: Source:	adon Affected Areas The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	B9SW (NW)	0	1	330000 362025



Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - R	adon Protection Measures				
	Protection Measure: Source:	Basic radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	B9SW (W)	0	1	330000 361980
	Radon Potential - R	adon Protection Measures				
	Protection Measure: Source:	No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	B9SW (NW)	0	1	330000 362025



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Contemporary Trad Name: Location: Classification:	le Directory Entries Cymrutools Repairs Bannel House, Chester Road, Penymynydd, Chester, CH4 0EN Lawnmowers & Garden Machinery - Sales & Service	B13NW (N)	315	-	329828 362926
	Status: Positional Accuracy: Contemporary Trad	Inactive Automatically positioned to the address				
46	Name: Location: Classification: Status:	Sk-Service 28, Plas yn Rhos, Penyffordd, Chester, CH4 0JU Carpet, Curtain & Upholstery Cleaners Inactive Automatically positioned to the address	B5SW (SW)	347	-	329872 361457
47	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Home Auto Services 6, Fairview, Penyffordd, Chester, CH4 0HZ Garage Services Inactive Automatically positioned to the address	B5SW (S)	512	-	329964 361262
48	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Chester Office Rhos Cottage, Rhos Road, Penyffordd, Chester, Cheshire, CH4 0JR Commercial Cleaning Services Inactive Automatically positioned to the address	B5SE (S)	572	-	330093 361412
49	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Pristine Clean 20, Abbottsford Drive, Penyffordd, Chester, CH4 0JG Oven cleaning Inactive Automatically positioned to the address	B1NW (S)	610	-	329911 361064
50	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Brun Cleaning Services 19, Watts Road, Penyffordd, Chester, CH4 0HD Commercial Cleaning Services Inactive Automatically positioned to the address	B5SE (S)	615	-	330108 361318
51	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Advance Carpet Care 34, Abbottsford Drive, Penyffordd, Chester, CH4 0JG Carpet, Curtain & Upholstery Cleaners Inactive Automatically positioned to the address	B1NW (S)	682	-	329936 360993
52	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Village Motors Chester Road, Penyffordd, Chester, CH4 0JZ Mot Testing Centres Active Automatically positioned to the address	B5NE (SE)	734	-	330271 361766
53	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Uber Smart Homes Ltd Craig Alyn,Abbotts Lane, Penyffordd, Chester, Cheshire, CH4 0HW Automation Systems & Equipment Active Automatically positioned to the address	B1NW (S)	782	-	330040 360947
54	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Coldair Ltd 15, Hillside Road, Penyffordd, Chester, CH4 0JJ Air Conditioning & Refrigeration Contractors Inactive Automatically positioned to the address	B9NE (NE)	808	-	330346 362265
55	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Bakewell Accountancy Services 4, Coed Terfyn, Penymynydd, Chester, CH4 0XB Homefurnishings - Manufacturers Inactive Automatically positioned to the address	B14SW (NE)	914	-	330454 362727



Sensitive Land Use

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Ancient Woodland					
56	Name: Reference: Area(m²): Type:	Not Supplied 37620 5379.6 Restored Ancient Woodland Site	B1NW (S)	566	2	329898 361099
	Ancient Woodland					
57	Name: Reference: Area(m²): Type:	Not Supplied 31185 95191.79 Restored Ancient Woodland Site	B14NW (NE)	945	2	330484 362850
	Nitrate Vulnerable Zones					
58	Name: Description: Source:	Not Supplied Surface Water Natural Resources Wales	B9SE (NW)	19	2	330105 361980
	Nitrate Vulnerable Zones					
59	Name: Description: Source:	Pulford Brook Nvz Surface Water Environment Agency, Head Office	B9SE (NW)	63	8	330105 361980
	Sites of Special Scientific Interest					
60	Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Buckley Claypits And Commons Y 997584.56 Natural Resources Wales 259231wwd Biological 15th January 2002 Notified	(NW)	906	2	329366 363688
	Special Areas of Conservation					
61	Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Deeside And Buckley Newt Sites Y 2071227.49 Natural Resources Wales Uk0030132 Designated	(NW)	906	2	329366 363688



Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	August 2008	
Natural Resources Wales	June 2020	Annually
Flintshire Council - Environmental Health Department	October 2017	Annual Rolling Update
Cheshire West and Chester Council - Environmental Health Department	October 2017	Annually
Discharge Consents		,
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	July 2022	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - North West Region	January 2009	
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2021	Quarterly
Environment Agency - North West Region	July 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Flintshire Council - Environmental Health Department	April 2016	Variable
Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	December 2008	Not Applicable
Cheshire West and Chester Council - Environmental Health Department	July 2015	Variable
Local Authority Pollution Prevention and Controls		
Flintshire Council - Environmental Health Department	April 2016	Annual Rolling Update
Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	December 2008	Not Applicable
Cheshire West and Chester Council - Environmental Health Department	July 2015	Annually
Local Authority Pollution Prevention and Control Enforcements		
Flintshire Council - Environmental Health Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental	April 2016 December 2008	Variable Not Applicable
Health Department Cheshire West and Chester Council - Environmental Health Department	July 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	July 2015	
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - North West Region	June 2016	As notified
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - North Area	January 2021	Quarterly
Environment Agency - North West Region - South Area	July 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly



Data Currency

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



Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	January 2009	Not Applicable
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency - North West Region - South Area	October 2022	Quarterly
Environment Agency Wales - North Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - North Area	July 2021	Quarterly
Environment Agency - North West Region - South Area	July 2022	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department	February 2003	Not Applicable
Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	February 2003	Not Applicable
Flintshire Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department	October 2018	
Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	October 2018	
Flintshire Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency - North West Region - South Area	March 2006	Not Applicable
Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - South Area	April 2018	
Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - South Area	June 2015	
Environment Agency Wales - North Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		,
Health and Safety Executive	August 2001	
	7.090012001	
Planning Hazardous Substance Enforcements Cheshire West and Chester Council - Planning Department	April 2016	Variable
Flintshire Council	January 2016	Variable
Cheshire County Council (now part of Cheshire East Council) - Planning Department	July 2008	Annual Rolling Update
Chester City Council (now part of Cheshire West and Chester Council)	October 2008	Not Applicable
Planning Hazardous Substance Consents		
Cheshire West and Chester Council - Planning Department	April 2016	Variable
Flintshire Council	January 2016	Variable
	, ==	
Cheshire County Council (now part of Cheshire East Council) - Planning Department	July 2008	Annual Rolling Update



Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	A
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain	14 0045	
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	October 2022	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines		
National Grid	October 2021	Bi-Annually
Underground Electrical Cables		
National Grid	May 2021	Bi-Annually



Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Cheshire West and Chester Council - Planning Department	July 2022	Quarterly
Chester City Council (now part of Cheshire West and Chester Council)	July 2022	Quarterly
Flintshire Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Cheshire West and Chester Council - Planning Department	July 2022	Quarterly
Chester City Council (now part of Cheshire West and Chester Council)	July 2022	Quarterly
Flintshire Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	August 2022	Bi-Annually
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas	-	· · · ·
Natural England	January 2017	
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
-		
Local Nature Reserves Flintshire Council	August 2019	Bi-Annually
Natural England	August 2018 February 2021	Bi-Annually
-	rebluary 2021	Di-Annualiy
Marine Nature Reserves	August 0040	
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves	=	
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Natural England	February 2018	Bi-Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually



A selection of organisations who provide data within this report

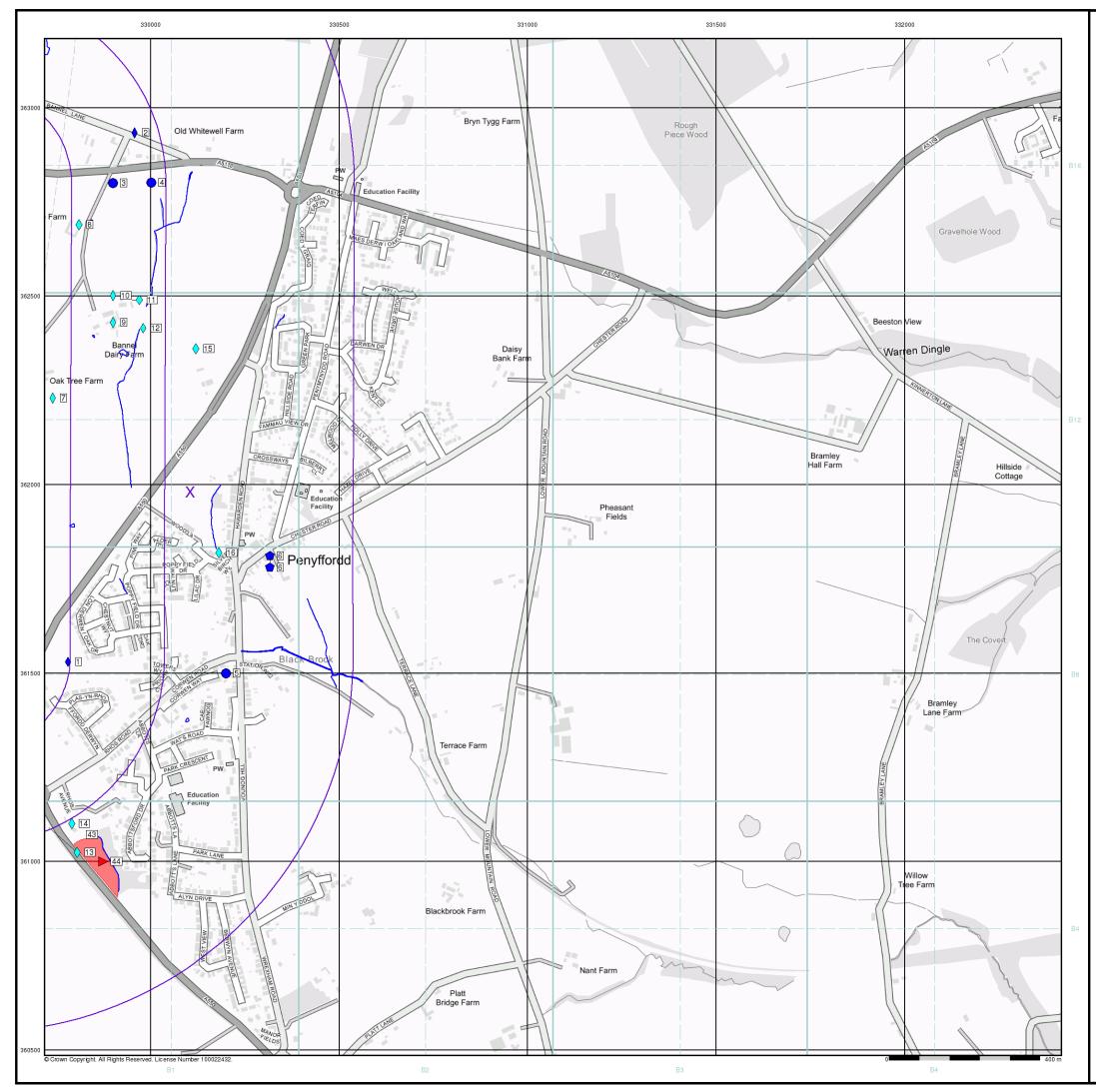
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	ARUP Stantec



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC)	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
	PO Box 544, Templeborough, Rotherham, S60 1BY	
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Flintshire Council - Environmental Health Department County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



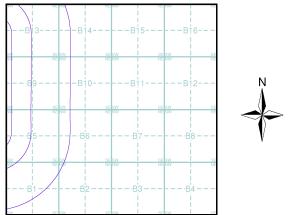


General

Specified Site Specified Buffer(s)	X Bearing Reference Point 🛛 🛽 🛽 Map ID
Several of Type at Location	
Agency and Hydrological	Waste
Contaminated Land Register Entry or Notice (Location)	BGS Recorded Landfill Site (Location)
🚫 Contaminated Land Register Entry or Notice	💋 BGS Recorded Landfill Site
🔶 Discharge Consent	🛑 EA Historic Landfill (Buffered Point)
Lenforcement or Prohibition Notice	EA Historic Landfill (Polygon)
A Integrated Pollution Control	Integrated Pollution Control Registered Waste Site
Integrated Pollution Prevention Control	Licensed Waste Management Facility
Local Authority Integrated Pollution Prevention and Control	Licensed Waste Management Facility (Location)
A Local Authority Pollution Prevention and Control	Local Authority Recorded Landfill Site (Location)
Control Enforcement	IIII Local Authority Recorded Landfill Site
Pollution Incident to Controlled Waters	🔀 Registered Landfill Site
Prosecution Relating to Authorised Processes	Registered Landfill Site (Location)
Prosecution Relating to Controlled Waters	Registered Landfill Site (Point Buffered to 100m)
A Registered Radioactive Substance	Registered Landfill Site (Point Buffered to 250m)
🥆 River Network or Water Feature	👚 Registered Waste Transfer Site (Location)
💠 River Quality Sampling Point	IIII Registered Waste Transfer Site
合 Substantiated Pollution Incident Register	Registered Waste Treatment or Disposal Site (Location)
🔷 Water Abstraction	Registered Waste Treatment or Disposal Site
🔶 Water Industry Act Referral	Hazardous Substances
Geological	K COMAH Site
VBGS Recorded Mineral Site	搔 Explosive Site
Industrial Land Use	MIHHS Site

- ★ Contemporary Trade Directory Entry
- 🗙 Fuel Station Entry

Site Sensitivity Map - Slice B



🗱 Planning Hazardous Substance Consent

🗱 Planning Hazardous Substance Enforcement

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

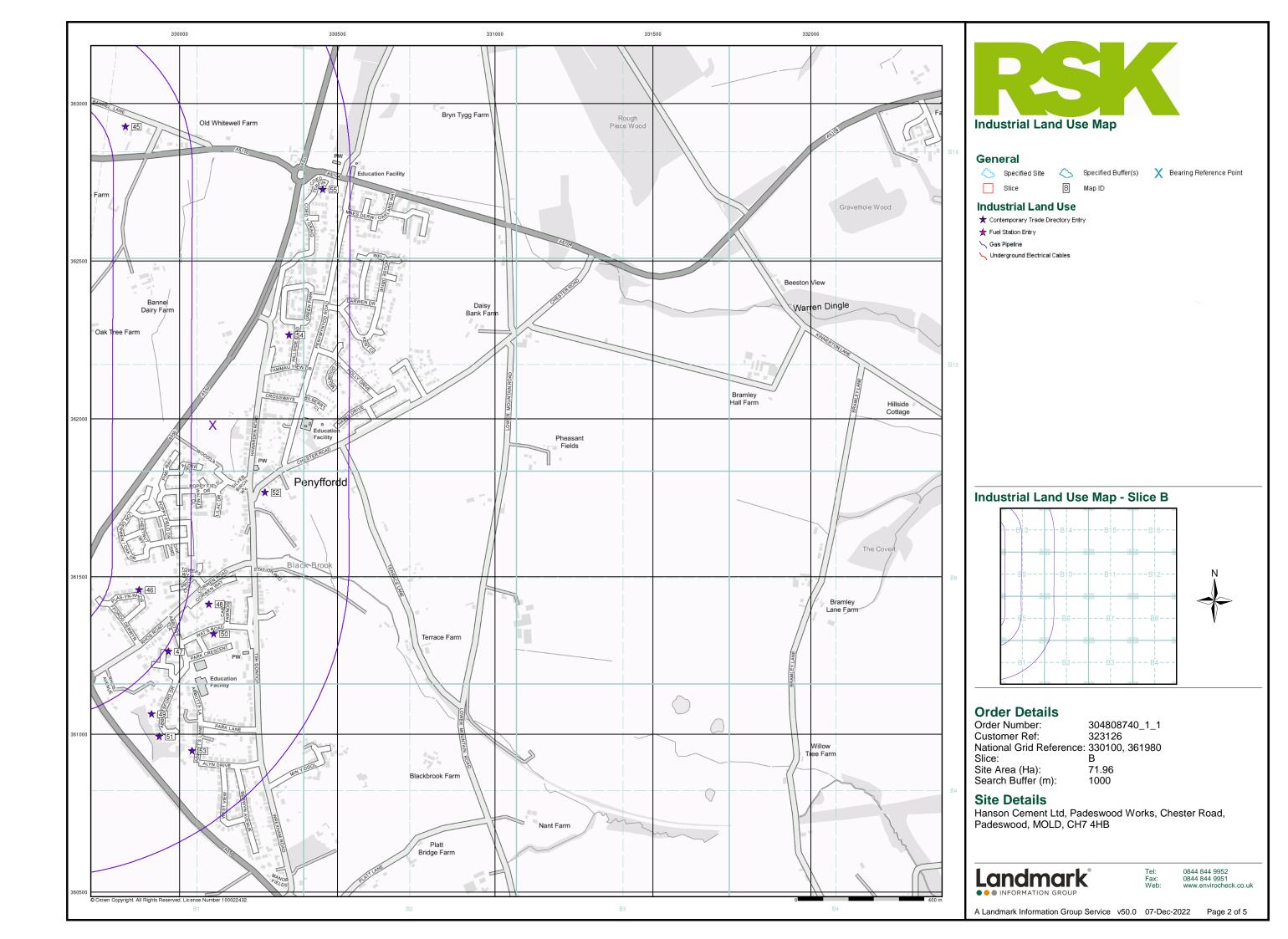
Site Details

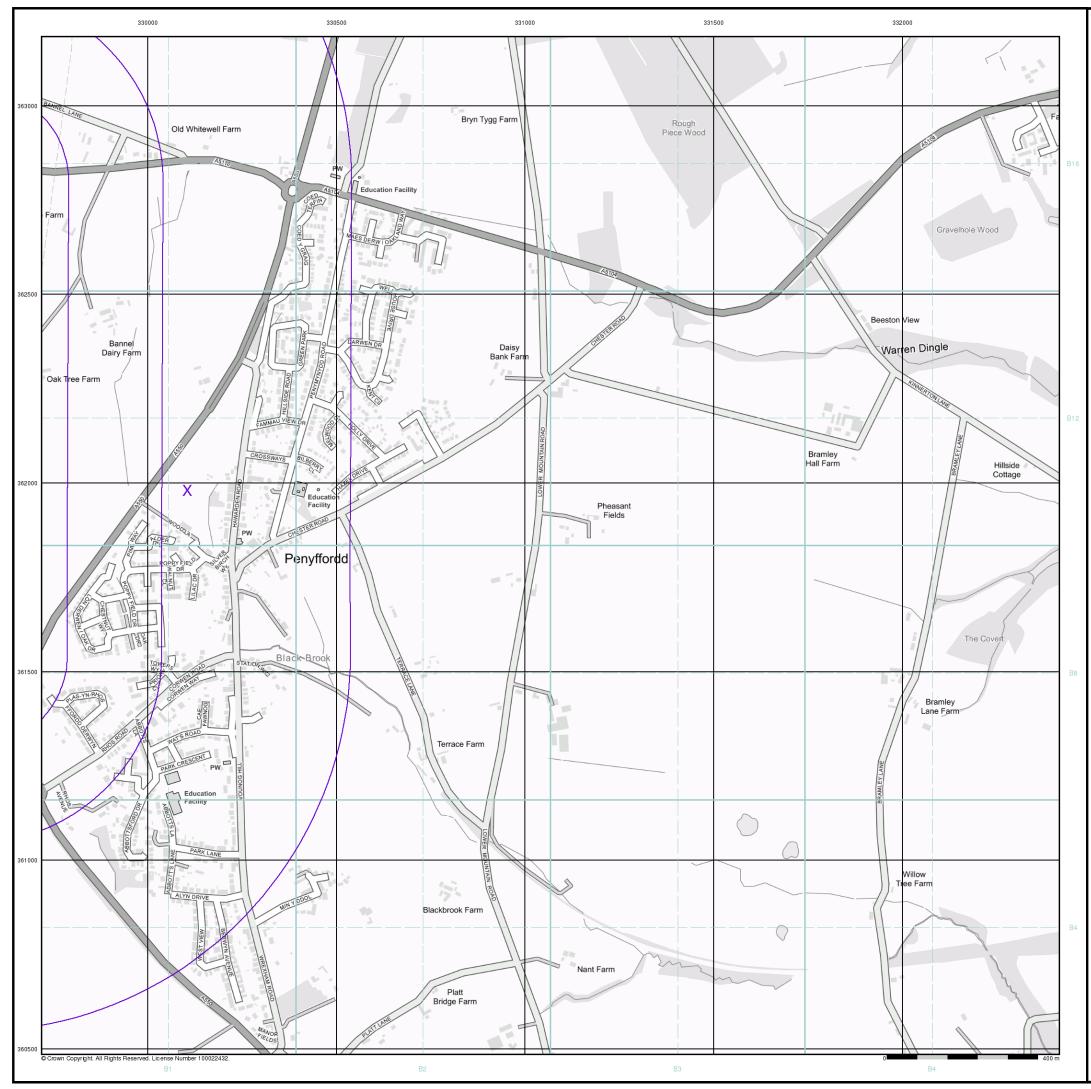
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB



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

A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 5







General

🔼 Specified Site

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

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

Flooding from Rivers or Sea without Defences (Zone 3)

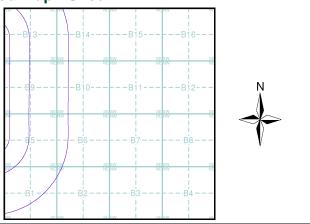
Area Benefiting from Flood Defence



Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice B



Order Details

Order Number: Customer Ref: National Grid Reference: 330100, 361980 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 В 71.96 1000

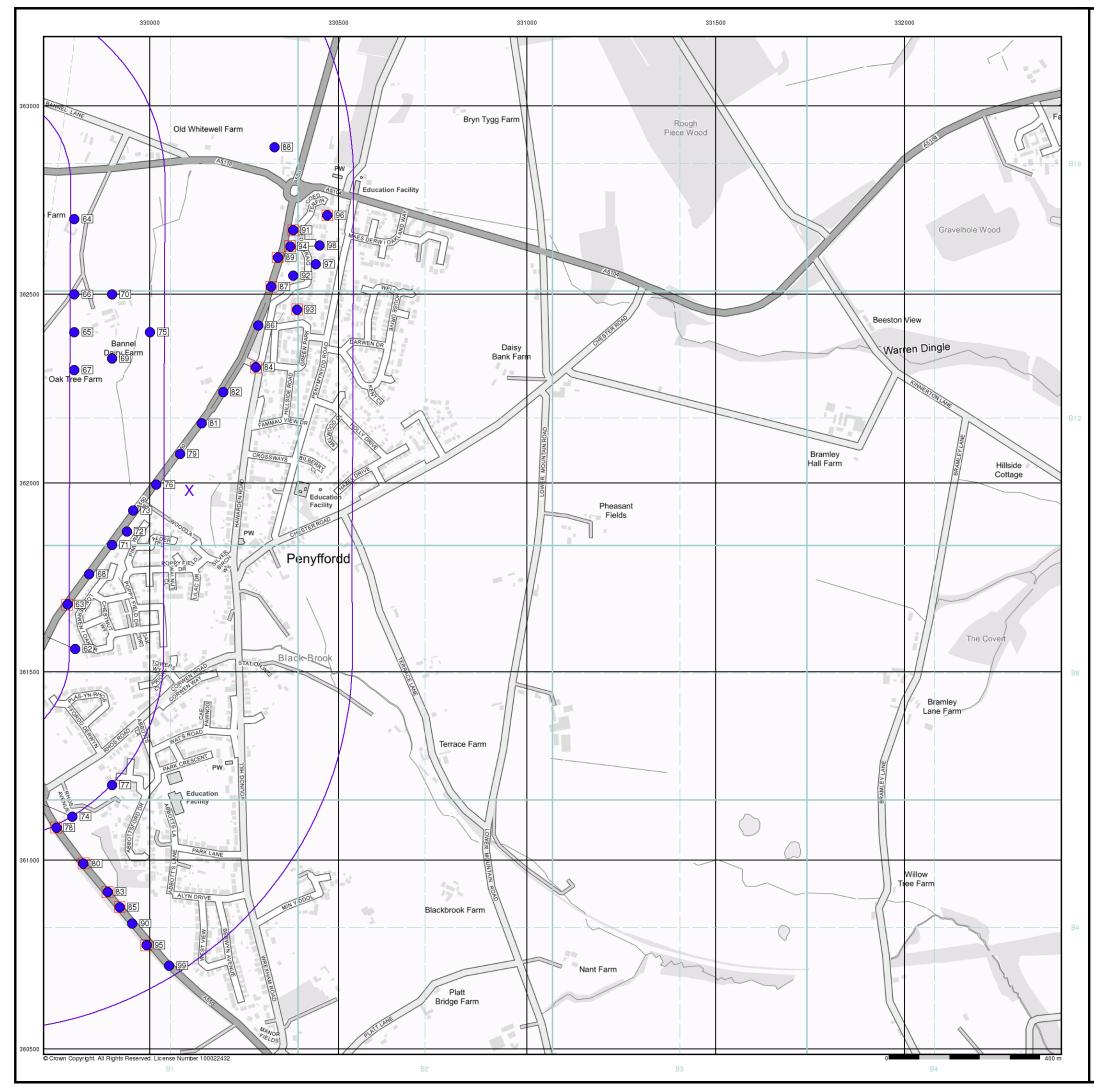
Site Details

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





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







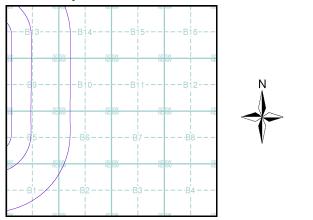
Agency and Hydrological (Boreholes)

- 😑 BGS Borehole Depth 0 10m
- BGS Borehole Depth 10 30m
- 🔴 BGS Borehole Depth 30m + Confidential
- ⊖ Other

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

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

Borehole Map - Slice 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

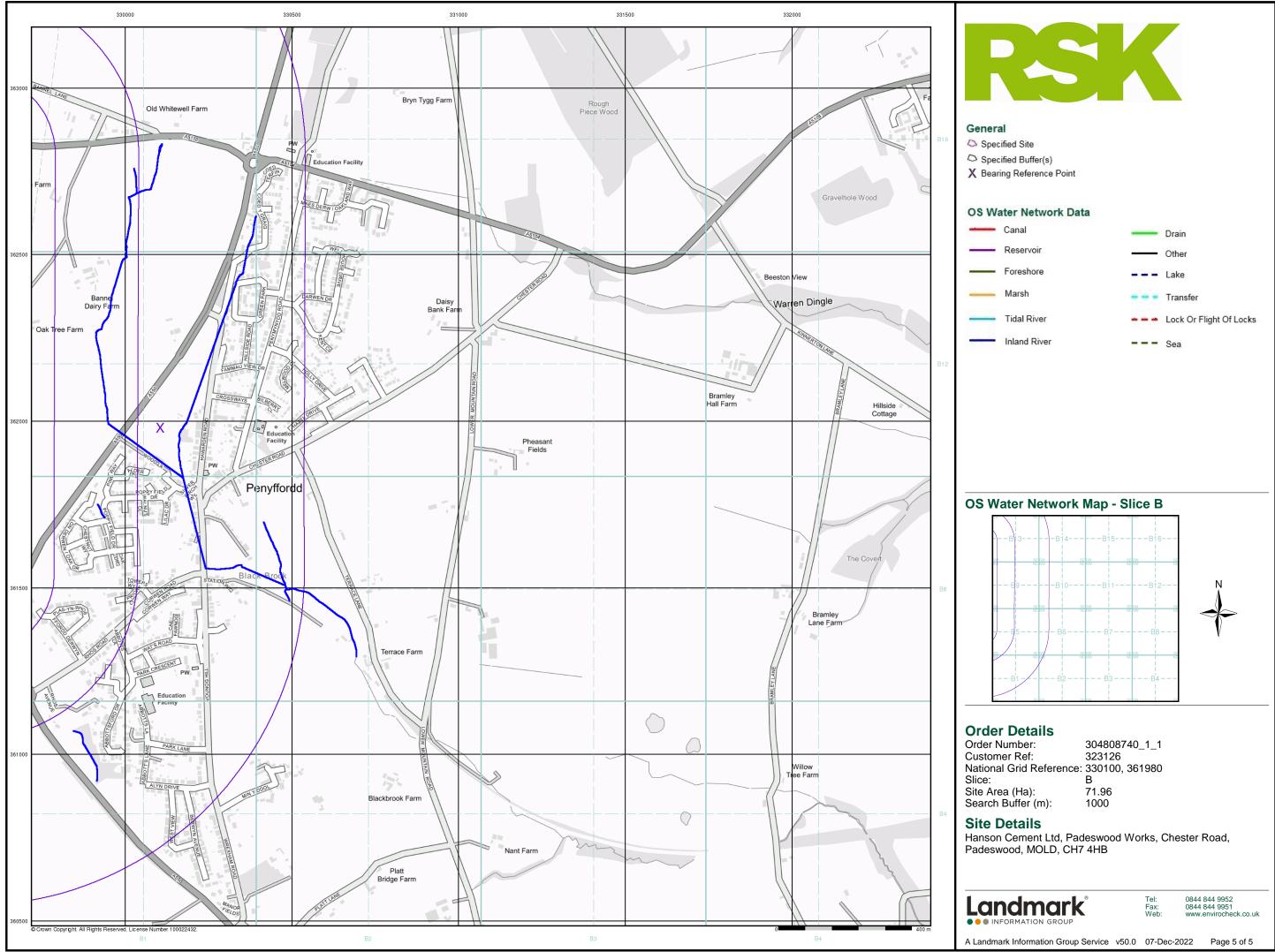
Site Details

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

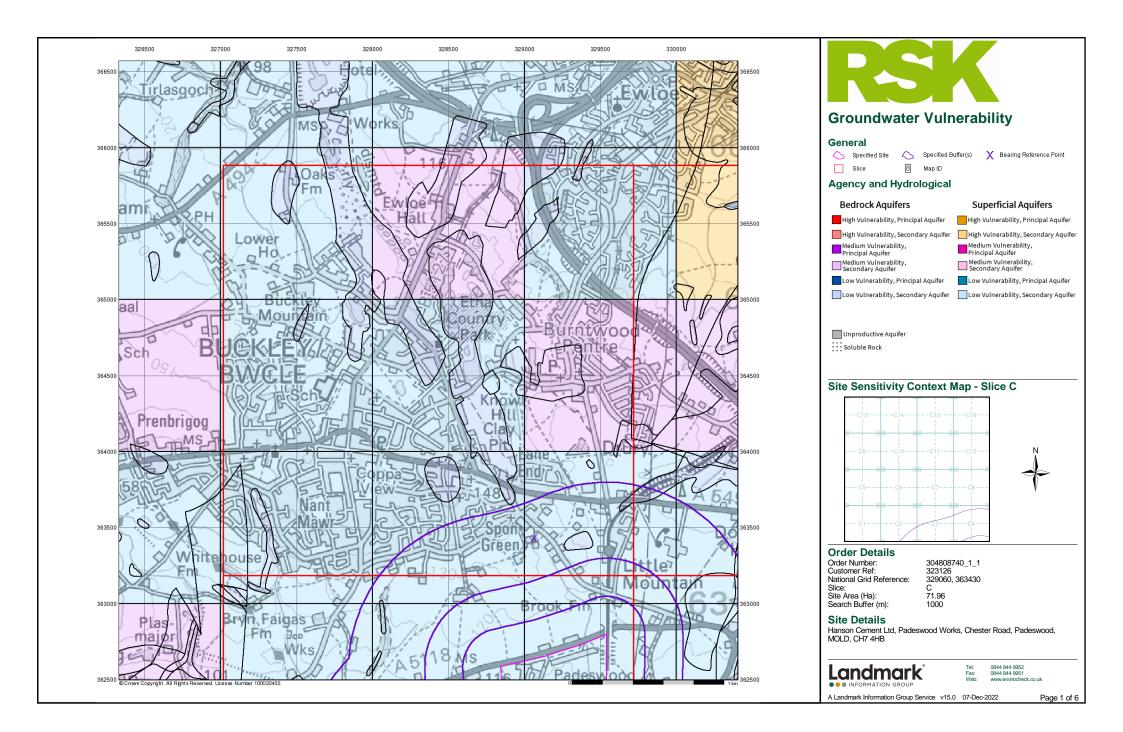


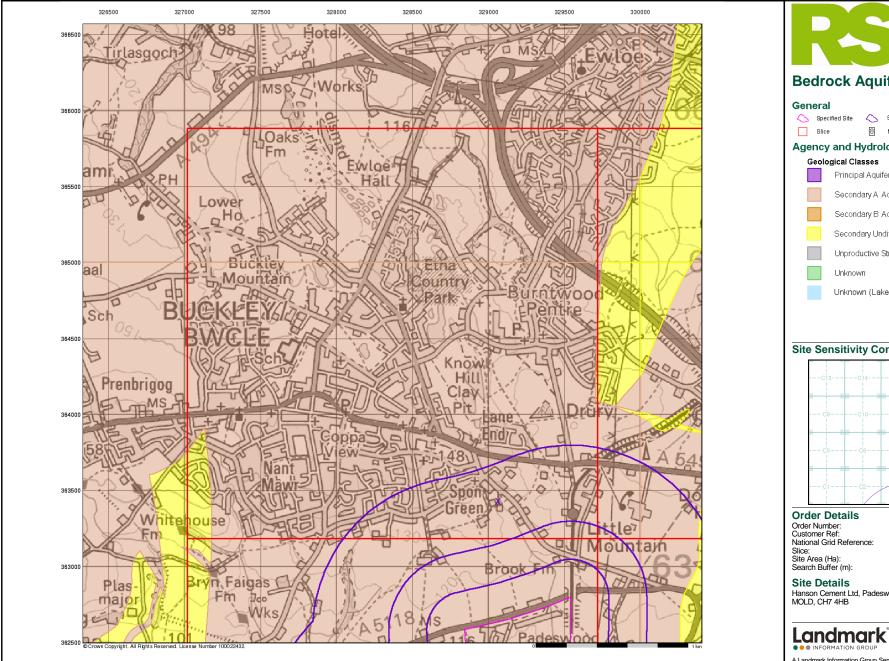


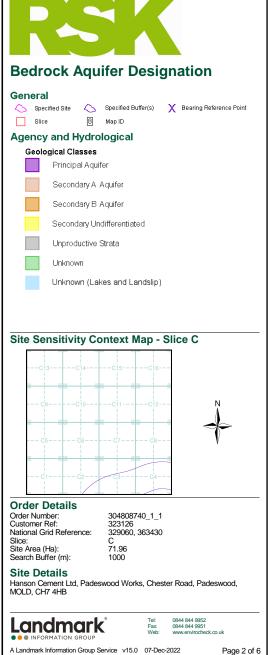
0844 844 9952 0844 844 9951 www.envirocheck.co.uk

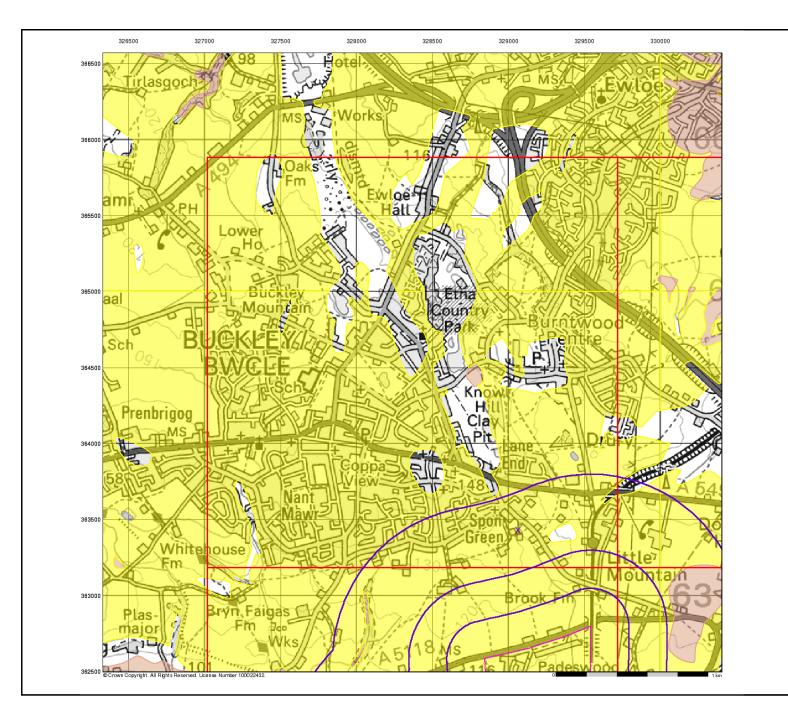


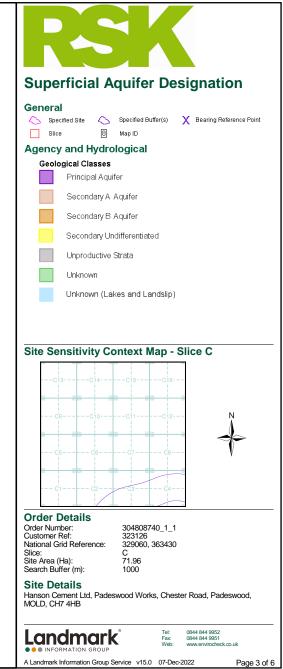
Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330100, 361980
Slice:	В
Site Area (Ha):	71.96
Search Buffer (m):	1000

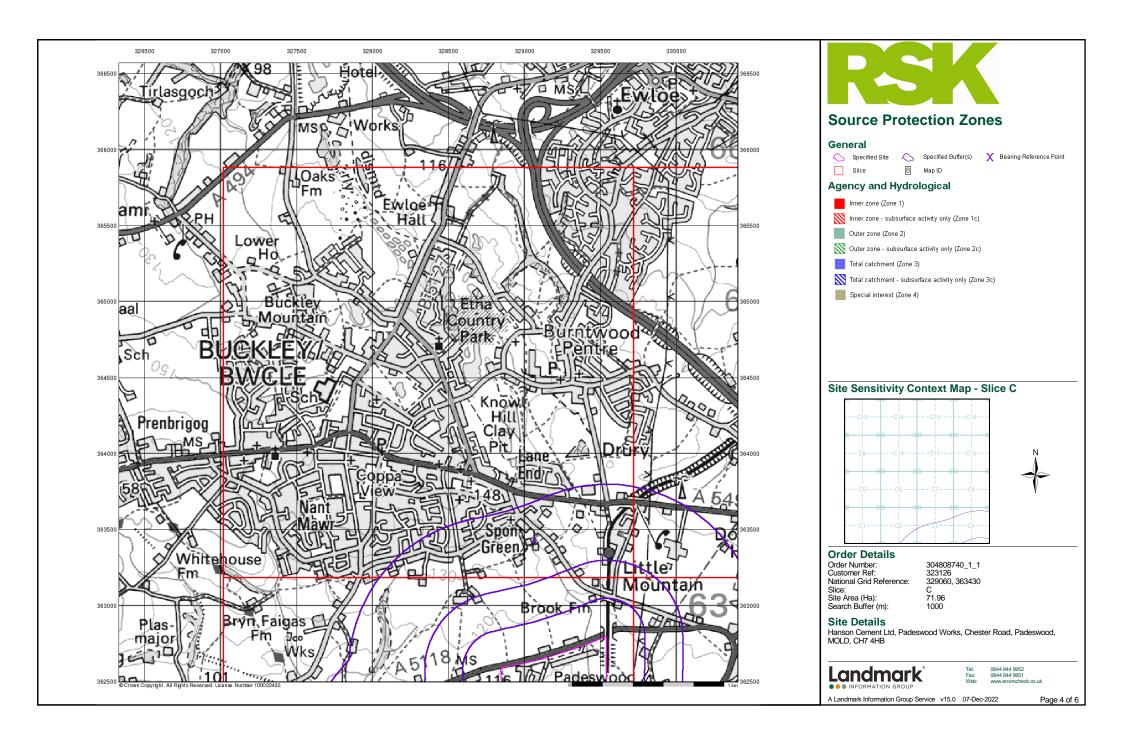


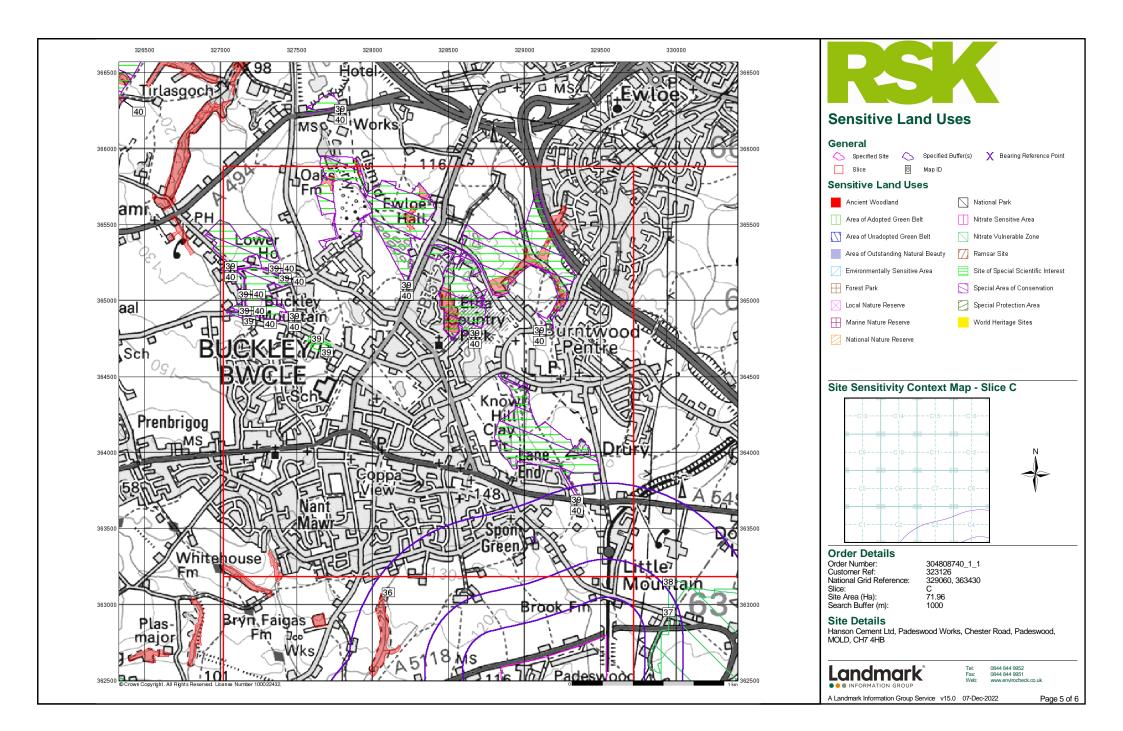


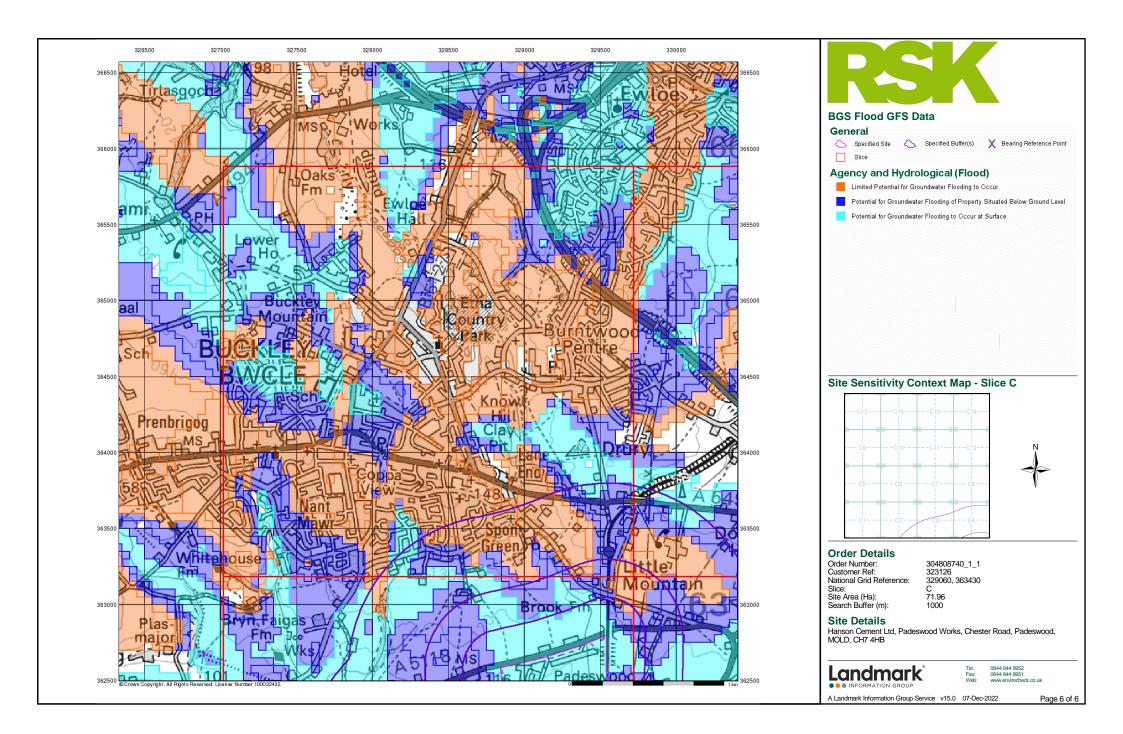














Envirocheck® Report:

Datasheet

Order Details:

Order Number: 304808740_1_1

Customer Reference: 323126

National Grid Reference: 329060, 363430

Slice:

Site Area (Ha):

71.96

Search Buffer (m): 1000

Site Details:

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

Client Details:

Mrs F Clayton RSK Environment Ltd Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR





Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	5
Hazardous Substances	-
Geological	6
Industrial Land Use	11
Sensitive Land Use	13
Data Currency	14
Data Suppliers	18
Useful Contacts	19

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

Tor this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2			Yes	
Pollution Incidents to Controlled Waters	pg 2				1
Prosecutions Relating to Authorised Processes	pg 3				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
Substantiated Pollution Incident Register					
River Quality Chemistry Sampling Points					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 3		1		1



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 5				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 5	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 5				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 6			1	21
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 9	Yes	n/a	n/a	n/a
Mining Instability	pg 9	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 9	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 11				12
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 13				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 13		2		
Ramsar Sites					
Sites of Special Scientific Interest	pg 13				1
Special Areas of Conservation	pg 13				1
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	C4SW (SE)	0	1	329200 363200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	329550 362550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	22	1	328650 363100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	79	1	329550 363000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	129	1	328650 362850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	149	1	329650 362950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	163	1	329600 363000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C4SE (E)	187	1	329600 363300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4SW (SE)	200	1	329150 363300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4SW (SE)	201	1	329250 363200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	201	1	329550 363100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	343	1	328500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4SE	351	1	362700 329450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E) C4SW	363	1	363428 329350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) C4SW	411	1	363200 329300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE) C4SW	422	1	363250 329061
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S) C4SE	432	1	363400 329700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E) C4SW	460	1	363350 329100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE) (SE)	460	1	363450 330000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	460	1	362800 330050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4SW	463	1	363450 329250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE) C4SW (N)	485	1	363250 329061 363428



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	S				
1	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Tyrer G M Undefined Or Other Buckley - Tir Coed Megs Lane Natural Resources Wales River Dee Cm0150601 1 10th March 1987 10th March 1987 18th September 1992 Unspecified Not Supplied To Land Consent expired	C2SE (W)	822	2	328300 363200
	Positional Accuracy:	Located by supplier to within 100m				
2	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Issued Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	s Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Buckley Megs Lane - Sso, Ch7 2ag Natural Resources Wales River Dee Cm0196001 2 8th September 2010 8th September 2010 18th December 2010 18th December 2013 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Unnamed Stream Surrendered under EPR 2010 Located by supplier to within 100m	C2SE (W)	963	2	328200 363300
	Discharge Consent	e				
2	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Dwr Cymru Cyfyngedig Sewerage Network - Sewers - Water Company Buckley Megs Lane - Sso, Ch7 2ag Natural Resources Wales River Dee CM0196001 1 20th October 1989 20th October 1989 20th October 1989 7th September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Unnamed Stream New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	C2SE (W)	963	2	328200 363300
	Local Authority Pol	lution Prevention and Controls				
3	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Hanson Brick Ltd Buckley, BUCKLEY, Flintshire, CH7 Flintshire Council, Environmental Health Department Not Given Not Supplied Local Authority Air Pollution Control PG3/5 Coal, coke and coal product processes Authorisation revoked Un-geocodable - location cannot be found	C4NE (NE)	935	3	329480 363732
	Nearest Surface Wa	ter Feature				
			C4SE (E)	385	-	329711 363188
4	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Natural Instinct Limited, BUCKLEY Environment Agency, Welsh Region Unknown Poor Management Control 17th January 1996 27234 Not Given Not Given Not Given Overflow Category 3 - Minor Incident Located by supplier to within 100m	C4NE (NE)	915	4	329700 363700



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Prosecutions Relati	ing to Authorised Processes				
5	Location: Prosecution Text:	Padeswood Works, Chester Road, Padeswood, MOLD, Clwyd, CH7 4HB EA North West Dataset 02/02/2000, On a date between 23rd June 1997 and 20th November 1997 Padeswood Works, Mold, breached Condition 1.2, Condition 2.3.1, Condition 2.3.2 & Condition 2.3.4 of the Authorisation. Premises: Industry. Pollutant: Other.	C4NW (NE)	902	4	329345 363679
	Prosecution Act: Hearing Date: Verdict: Fine: Costs:	EPA90 s23(1a) 12th February 1999 Guilty 6000 14850				
	Positional Accuracy:	Manually positioned to the road within the address or location				
	Groundwater Vulne	rability Map				
	Combined Classification: Combined Vulnerability: Combined Aquifer:	Secondary Superficial Aquifer - Low Vulnerability Low Productive Bedrock Aquifer, Productive Superficial Aquifer	(S)	0	2	329000 363000
	Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial	Low Well Connected Fractures 300-550 mm/year <40% >90%				
	Patchiness: Superficial Thickness: Superficial Recharge:	>10m Low				
	Groundwater Vulne	rability Map				
	Combined Classification:	Secondary Superficial Aquifer - Low Vulnerability	(S)	0	2	329061 363000
	Combined Vulnerability: Combined Aquifer: Pollutant Speed: Bedrock Flow: Dilution: Baseflow Index: Superficial	Low Productive Bedrock Aquifer, Productive Superficial Aquifer Low Well Connected Fractures 300-550 mm/year <40% >90%				
	Patchiness: Superficial Thickness: Superficial Recharge:	>10m Low				
	Bedrock Aquifer De	signations				
	Aquifer Designation:	Secondary Aquifer - A	C4SW (N)	0	2	329061 363428
	Superficial Aquifer Aquifer Designation:	Designations Secondary Aquifer - Undifferentiated	C4SW (N)	0	2	329061 363428
	Extreme Flooding for None	rom Rivers or Sea without Defences				
	Flooding from River	rs or Sea without Defences				
	Areas Benefiting fro	om Flood Defences				
	Flood Water Storag	e Areas				
	Flood Defences None					
6	OS Water Network I Watercourse Form: Watercourse Length: Watercourse Level: Permanent: Watercourse Name: Catchment Name: Primacy:	Inland river 382.2 On ground surface True	C4SW (SE)	236	5	329175 363278



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	OS Water Network Lines				
7	Watercourse Form: Inland river Watercourse Length: 777.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	C2SE (W)	781	5	328195 363295



Waste

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Historical Landfill S	ites				
8	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Alyn and Deeside District Council Buckley, Flintshire Dirty Mile Tip Not Supplied AS Supplied EAHLD14217 1st January 1971 Not Supplied Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste 0 Not Supplied 6835/0080 Not Supplied UT9, 38	C4SW (E)	570	2	329240 363363
	Local Authority Lan	dfill Coverage				
	Name:	Flintshire Council - Has supplied landfill data		0	3	329061 363428
	Local Authority Rec	orded Landfill Sites				
9	Location: Reference: Authority: Last Reported Status: Types of Waste: Date of Closure:	Off Chester Road, Buckley Not Supplied Flintshire Council, Environmental Health Department Unknown Domestic, Commercial Not Supplied	C4SW (E)	572	3	329238 363363
	Positional Accuracy: Boundary Quality:	Positioned by the supplier Moderate				



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Soli	d Geology				
	Description:	Millstone Grit Group [See Also Migr]	C4SE (E)	0	1	329612 363364
	BGS 1:625,000 Soli					
	Description:	Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	C4SW (N)	0	1	329061 363428
	BGS Recorded Min	eral Sites				
10	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255297 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (SE)	397	1	329566 363195
	BGS Recorded Min	eral Sites				
11	Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255295 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (E)	617	1	329581 363414
	BGS Recorded Min	eral Sites				
11	Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255294 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (E)	632	1	329597 363428
	BGS Recorded Min	eral Sites				
12		Little Mountain Brick Works Mine Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255291 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (E)	621	1	329427 363409
	BGS Recorded Min					
13	Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Little Mountain Brick Works Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255292 Opencast Ceased Unknown Operator Not Supplied Quaternary, Devensian Till, Devensian Common Clay and Shale Located by supplier to within 10m	C4SW (E)	637	1	329368 363412



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255296 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep	C4SE (E)	652	1	329539 363451
15	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Located by supplier to within 10m eral Sites Spon Green Pit Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136920 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SW (SW)	670	1	328579 363200
16	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 253118 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SE (SW)	701	1	328875 363312
17	Periodic Type: Geology: Commodity:	eral Sites Little Mountain Brick Works Mine Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255290 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (E)	723	1	329417 363511
17	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Little Mountain Brick Works Clay Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255289 Opencast Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4SE (E)	732	1	329388 363515
17	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Little Mountain Brick Works Clay Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255289 Opencast Ceased Unknown Operator Not Supplied Quaternary, Devensian Till, Devensian Common Clay and Shale Located by supplier to within 10m	C4SE (E)	732	1	329388 363515



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136921 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SE (W)	744	1	328815 363342
19	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136919 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SW (W)	777	1	328549 363304
20	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255293 Underground Ceased Unknown Operator Not Supplied Carboniferous Hollin Coal (North Wales) Coal - Deep Located by supplier to within 10m	C4SW (NE)	796	1	329192 363516
21	Periodic Type: Geology: Commodity:	eral Sites Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255301 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4NE (E)	804	1	329608 363600
22	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Buckley, Flintshire British Geological Survey, National Geoscience Information Service 136922 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SW (W)	818	1	328395 363268
23	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 253119 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SW (W)	828	1	328440 363308



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Recorded Mine	eral Sites				
24	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Wet Hollin Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 105553 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4NE (NE)	860	1	329400 363647
	BGS Recorded Mine					
25	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Little Mountain Colliery Pit Little Mountain, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 255300 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C4NE (NE)	879	1	329518 363677
	BGS Recorded Mine	eral Sites				
26	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Spon Green Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 253115 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SE (W)	883	1	328859 363495
	BGS Recorded Mine					
26	Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity:	Spon Green Pit Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 253114 Underground Ceased Unknown Operator Not Supplied Carboniferous Pennine Middle Coal Measures Formation Coal - Deep Located by supplier to within 10m	C3SE (W)	886	1	328869 363500
27	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Spon Green Brick Field Spon Green, Buckley, Flintshire British Geological Survey, National Geoscience Information Service 253117 Opencast Ceased Unknown Operator Not Supplied Quaternary, Devensian Till, Devensian Common Clay and Shale Located by supplier to within 10m	C3NE (NW)	989	1	328803 363591
<u> </u>	Coal Mining Affecte					
	Description:	In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	C4SW (N)	0	6	329061 363428
	Mining Instability Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	C4SW (N)	0	-	329061 363428
	Non Coal Mining Ar Risk: Source:	eas of Great Britain Highly Unlikely British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Ar	reas of Great Britain				
	Risk: Source:	Rare British Geological Survey, National Geoscience Information Service	C4SE (E)	0	1	329662 363334
	Potential for Collap	sible Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Potential for Comp	ressible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428
	Radon Potential - R	adon Affected Areas				
	Affected Area:	The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).	C4SW (N)	0	1	329061 363428
	Source:	British Geological Survey, National Geoscience Information Service				
		adon Protection Measures				
	Protection Measure: Source:	No radon protective measures are necessary in the construction of new dwellings or extensions British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	329061 363428



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Station House Timber Products Ltd Station Road, Buckley, Clwyd, CH7 3AY Joinery Manufacturers Inactive Automatically positioned to the address	C4SE (E)	514	-	329534 363312
28	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries P C M Vehicle Repairs Ltd Unit 3, Station Buildings, Station Road, Buckley, Clwyd, CH7 3AY Mot Testing Centres Active Automatically positioned to the address	C4SE (E)	514	-	329534 363312
28	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries S & D Car Sales Ltd Unit 4-4b, Station Road, Buckley, CH7 3AY Car Dealers - Used Inactive Automatically positioned to the address	C4SE (E)	554	-	329519 363352
29	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Tts Sales Station Road, Buckley, Clwyd, CH7 3AY Car Dealers Inactive Automatically positioned to the address	C4SE (E)	623	-	329518 363421
30	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Tts Auto Body Shop Ltd Chester Road, BUCKLEY, Clwyd, CH7 3AJ Car Body Repairs Inactive Automatically positioned to the address	C4SE (E)	723	-	329388 363506
30	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Vincent Biggs Chester Rd, Buckley, Clwyd, CH7 3AJ Car Body Repairs Inactive Manually positioned to the address or location	C4SE (E)	724	-	329388 363506
31	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Buckley Foods Ltd Unit 5, Little Mountain Industrial Estate, Chester Road, Buckley, Clwyd, CH7 3AG Food Products - Manufacturers Active Automatically positioned to the address	C4NE (E)	792	-	329487 363589
31	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Buckley Foods Ltd Unit 5, Little Mountain Industrial Estate, Chester Road, BUCKLEY, Clwyd, CH7 3AG Food Products - Manufacturers Inactive Automatically positioned to the address	C4NE (E)	792	-	329487 363589
32	Contemporary Trad Name: Location: Classification: Status:		C3SW (W)	838	-	328478 363338
33	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Emjay Autos 45, Spon Green, Buckley, Clwyd, CH7 3BH Garage Services Inactive Automatically positioned to the address	C3SE (W)	857	-	328805 363455
34	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Trailer Man 3, Conway Avenue, Buckley, Clwyd, CH7 3BS Waste Disposal Services Inactive Automatically positioned to the address	C3SW (W)	930	-	328627 363490



Industrial Land Use

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trade	e Directory Entries				
35	Location: Classification: Status:	Hyder Transport Services Chester Rd, Buckley, Clwyd, CH7 3AJ Garage Services Inactive Manually positioned to the road within the address or location	C4NW (NE)	942	-	329231 363688



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 29375 32517.52 Ancient and Semi-Natural Woodland	(W)	675	2	328101 363079
37	Nitrate Vulnerable 2 Name: Description: Source:	Zones Not Supplied Surface Water Natural Resources Wales	(SE)	19	2	329950 362950
38	Nitrate Vulnerable 2 Name: Description: Source:	Zones Pulford Brook Nvz Surface Water Environment Agency, Head Office	(E)	63	7	329950 363150
39	Sites of Special Sci Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Buckley Claypits And Commons Y 997584.56 Natural Resources Wales 259231wwd	C4NW (NE)	906	2	329346 363690
40	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Deside And Buckley Newt Sites Y 2071227.49 Natural Resources Wales Uk0030132 Designated	C4NW (NE)	906	2	329346 363690



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Flintshire Council - Environmental Health Department	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	July 2022	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
		Qualterly
Local Authority Integrated Pollution Prevention And Control	A	Mariah la
Flintshire Council - Environmental Health Department	April 2016	Variable
Local Authority Pollution Prevention and Controls		
Flintshire Council - Environmental Health Department	April 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Flintshire Council - Environmental Health Department	April 2016	Variable
Nearest Surface Water Feature Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters	December 1998	
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	July 2015	
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - North Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Natural Resources Wales	July 2022	Quartarly
	October 2022	Quarterly
Environment Agency - Welsh Region		Quarterly
Water Industry Act Referrals	L.L. 0000	
Natural Resources Wales	July 2022	Quarterly
Environment Agency - Welsh Region	October 2017	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	



Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
		_
Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - North Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - North Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Flintshire Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Flintshire Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - North Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
	January 2016	Variable
Flintshire Council		
Planning Hazardous Substance Consents		



Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	A
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	October 2022	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines		
National Grid	October 2021	Bi-Annually
Underground Electrical Cables		
National Grid	May 2021	Bi-Annually



Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Flintshire Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually



A selection of organisations who provide data within this report

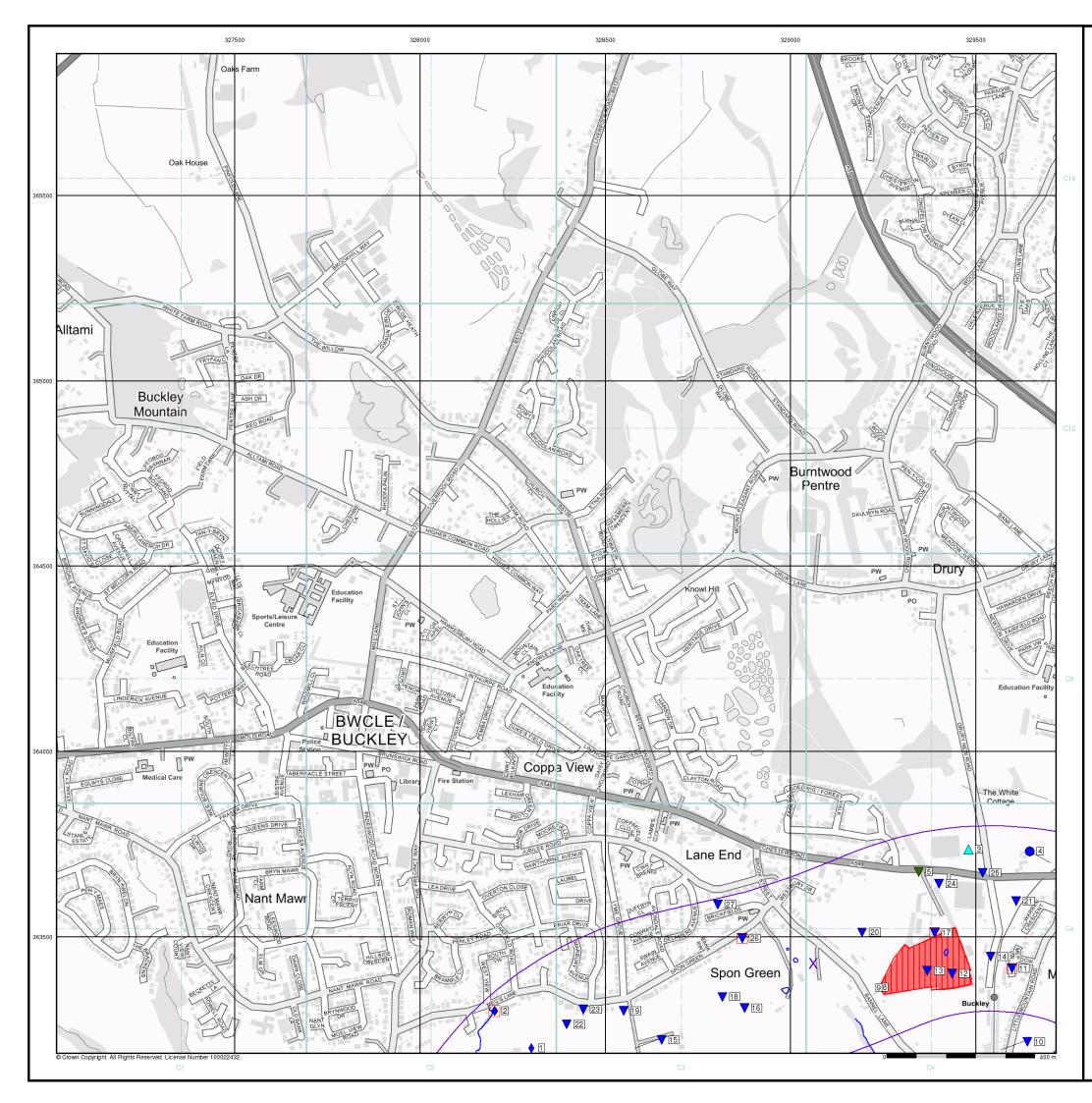
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPÃO Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	Stantec



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Flintshire Council - Environmental Health Department County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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





General

🔼 Specified Site	Specified Buffer(s)	X Bearing Reference Point
Several of Type at	Location	
Agency and	Hydrological	Waste
Contaminated Lan (Location)	d Register Entry or Notice	BGS Recorded Landfill Sit
🚫 Contaminated Lan	d Register Entry or Notice	BGS Recorded Landfill Sit
🔶 Discharge Conser	t	🔴 EA Historic Landfill (Buffer
A Enforcement or Pr	ohibition Notice	EA Historic Landfill (Polygo
🛕 Integrated Pollutior	n Control	A Integrated Pollution Contro Waste Site
Integrated Pollution	Prevention Control	Licensed Waste Manager (Landfill Boundary)
Local Authority Int	egrated Pollution Prevention	Licensed Waste Manager
🛆 Local Authority Po	llution Prevention and Control	Local Authority Recorded
Control Enforceme	llution Prevention and nt	Local Authority Recorded
Pollution Incident to	o Controlled Waters	🚫 Registered Landfill Site
Prosecution Relati	ng to Authorised Processes	Registered Landfill Site (Landfill Site)
🔶 Prosecution Relati	ng to Controlled Waters	Registered Landfill Site (P
🛕 Registered Radioa	ctive Substance	Registered Landfill Site (P
🥄 River Network or \	Vater Feature	👚 Registered Waste Transfe
🕂 River Quality Sam	oling Point	IIII Registered Waste Transfe
🔶 Substantiated Poll	tion Incident Register	Registered Waste Treatmeter (Location)
🔷 Water Abstraction	I Contraction of the second	📃 Registered Waste Treatm
🔶 Water Industry Ac	t Referral	Hazardous Sub
Geological		🛃 COMAH Site
BGS Recorded Mir	neral Site	🛃 Explosive Site
Industrial La	and Use	NIHHS Site

- ★ Contemporary Trade Directory Entry
- 🗙 Fuel Station Entry
- Site Sensitivity 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

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



8 Map ID

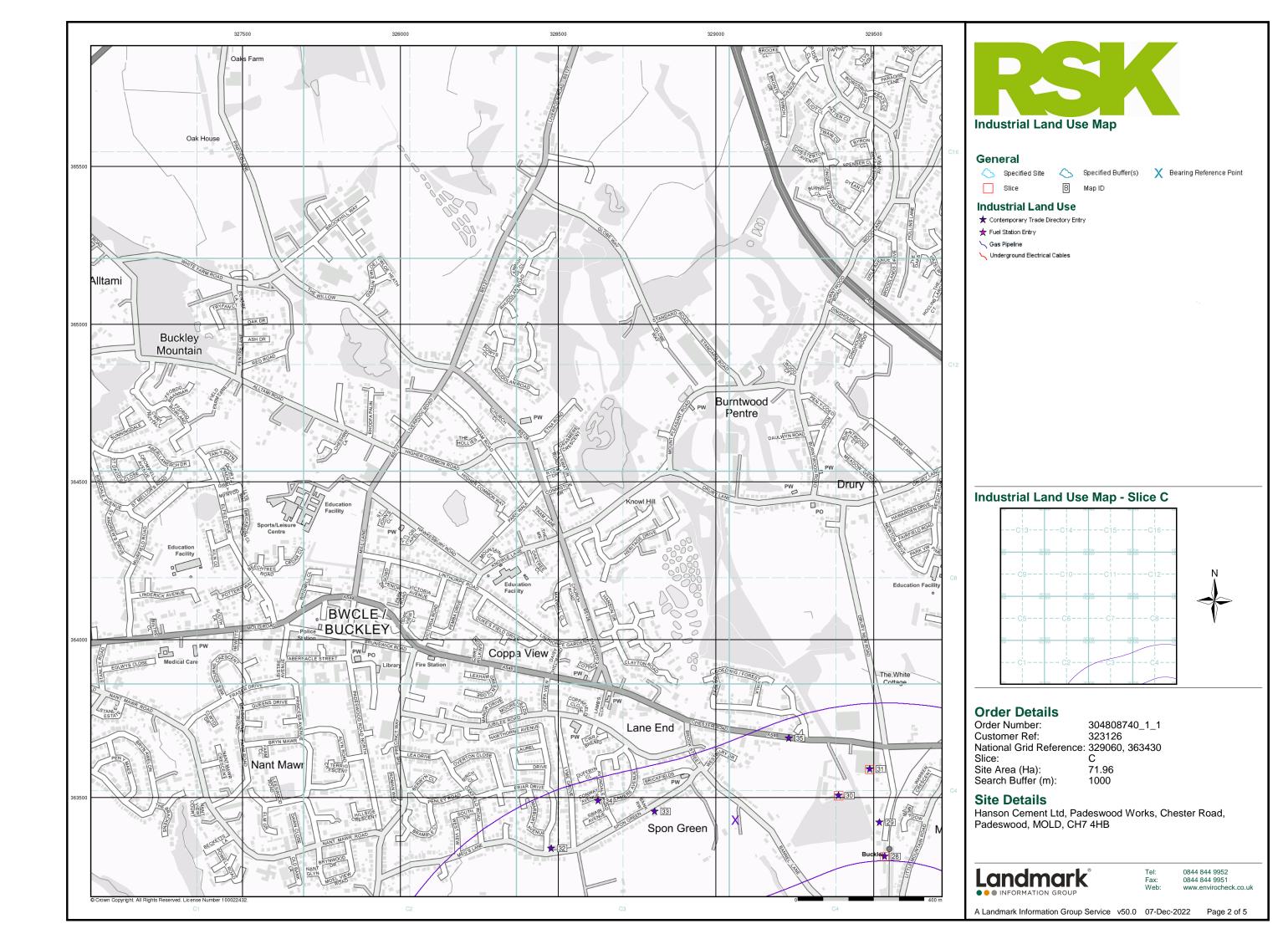
Site (Location) Site ered Point) gon) trol Registered ement Facility ement Facility (Location) ed Landfill Site (Location) ed Landfill Site Location) (Point Buffered to 100m) (Point Buffered to 250m) sfer Site (Location) sfer Site ment or Disposal Site ment or Disposal Site bstances NH NH 🗱 Planning Hazardous Substance Consent 🗱 Planning Hazardous Substance Enforcement

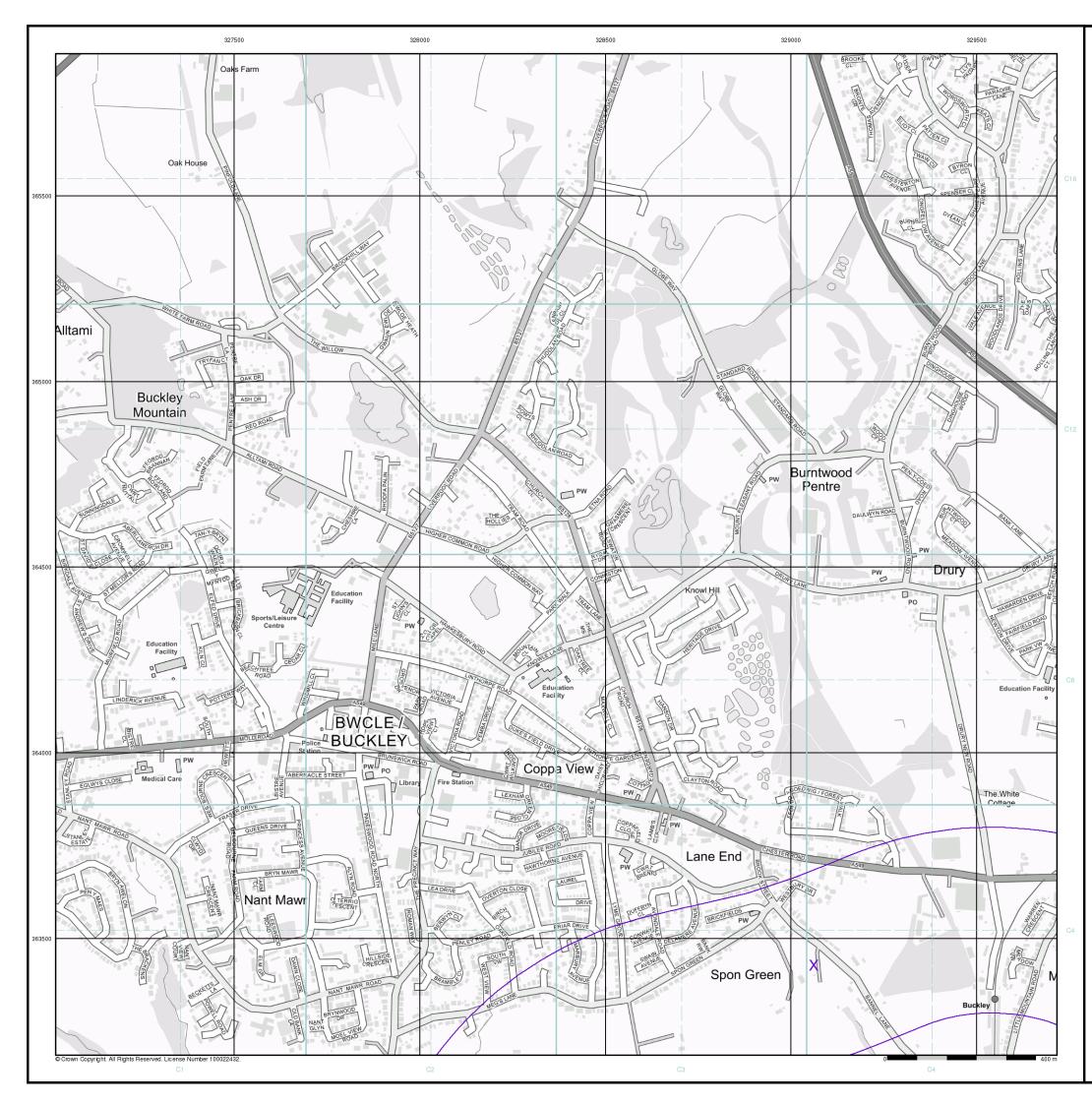
A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 5

Tel: Fax: Web:

0844 844 9952 0844 844 9951

www.envirocheck.co.uk







General

🔼 Specified Site

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

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

Flooding from Rivers or Sea without Defences (Zone 3)

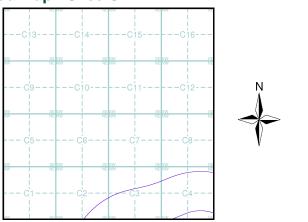
Area Benefiting from Flood Defence



Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice C



Order Details

 Order Number:
 304808740_1_1

 Customer Ref:
 323126

 National Grid Reference:
 329060, 363430
 Slice: Site Area (Ha): Search Buffer (m):

С 71.96 1000

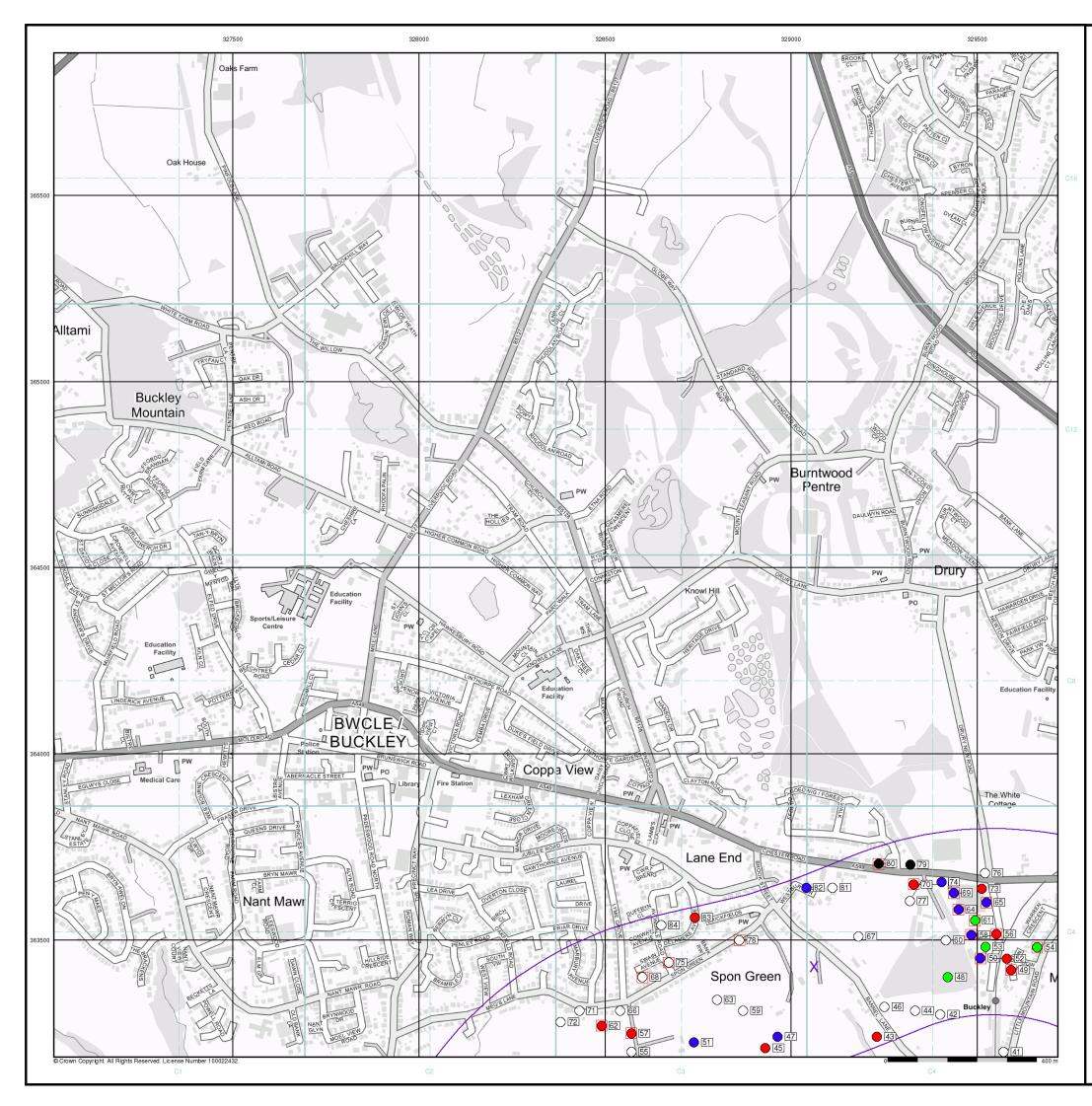
Site Details

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





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







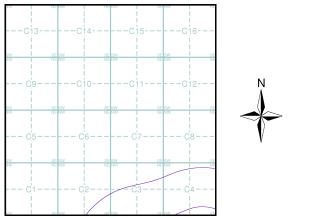
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice 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

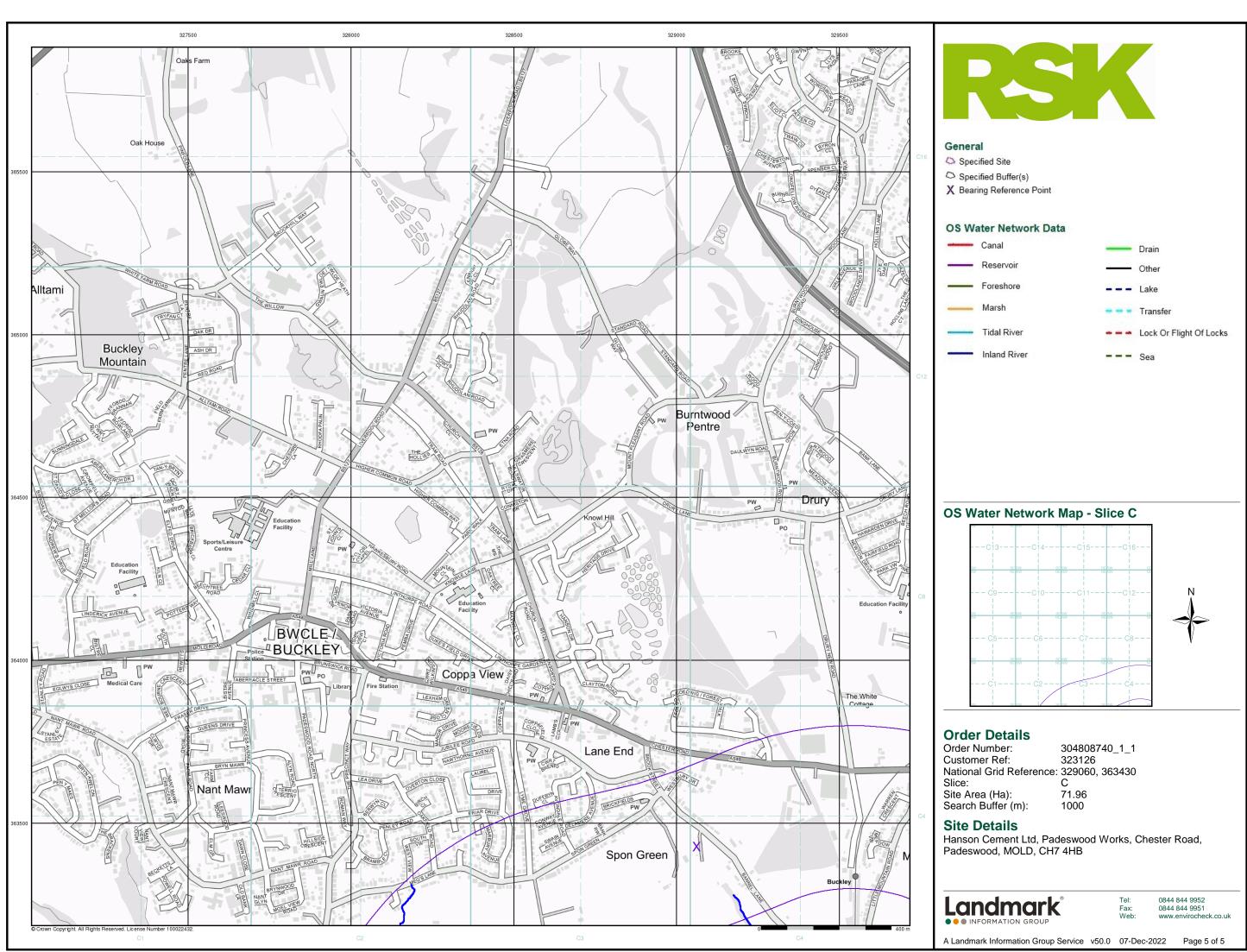
Site Details

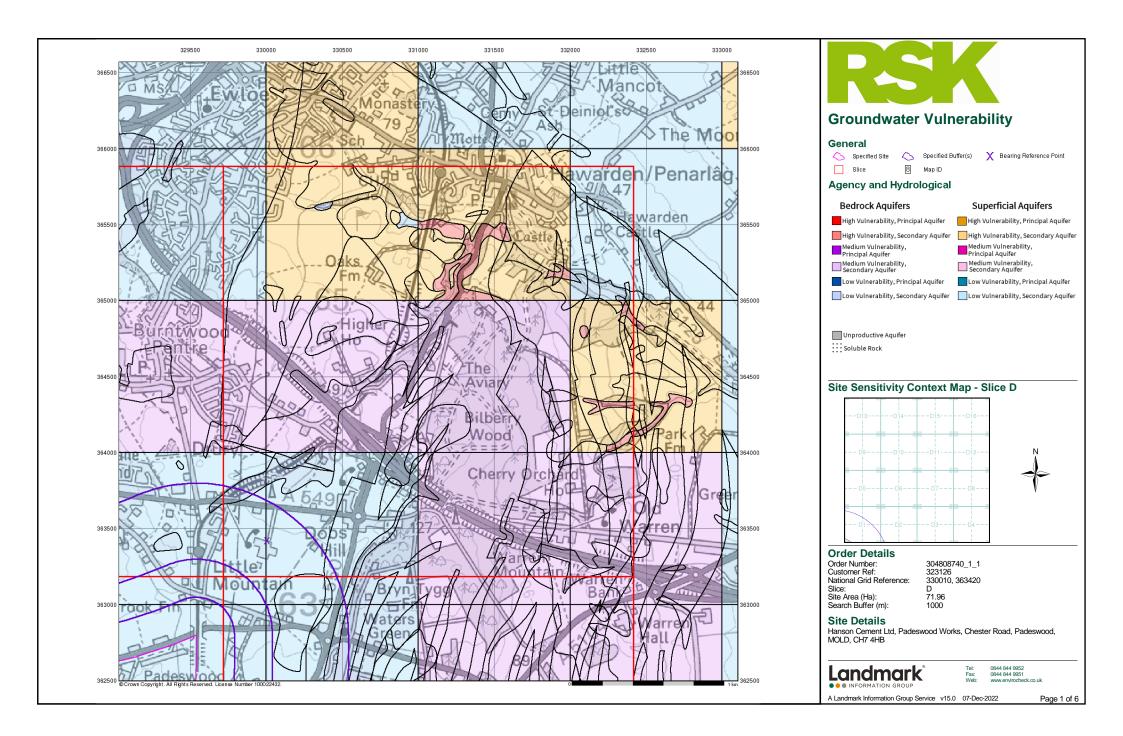
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

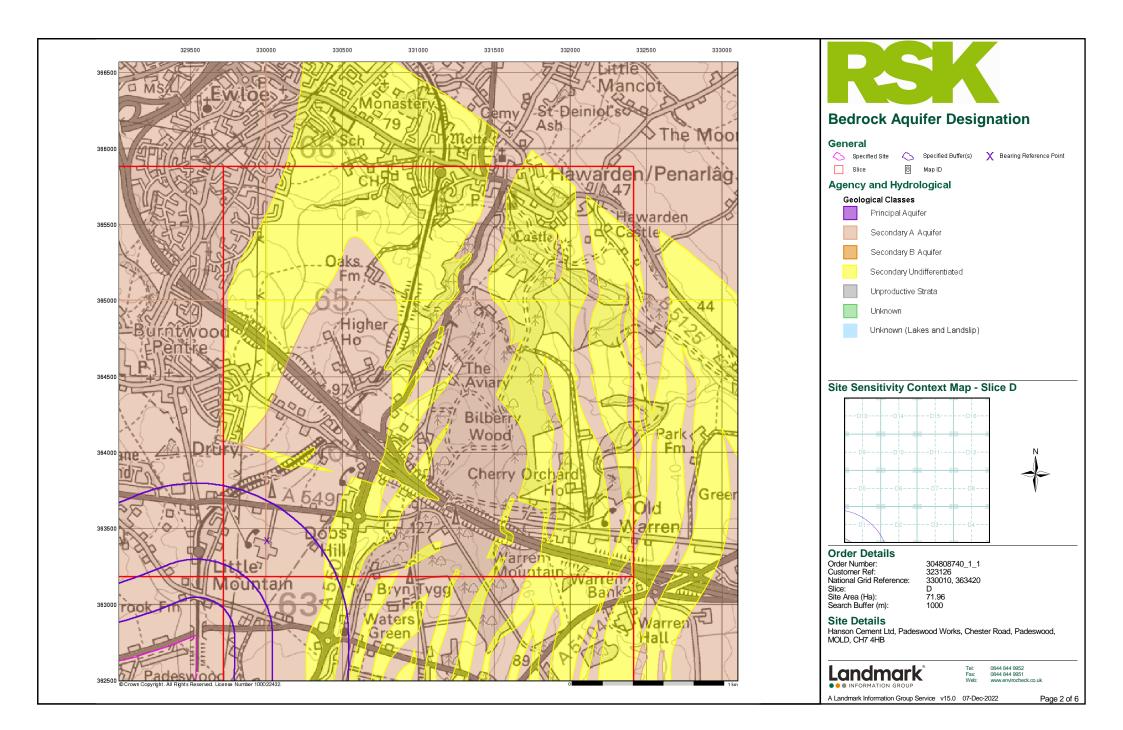


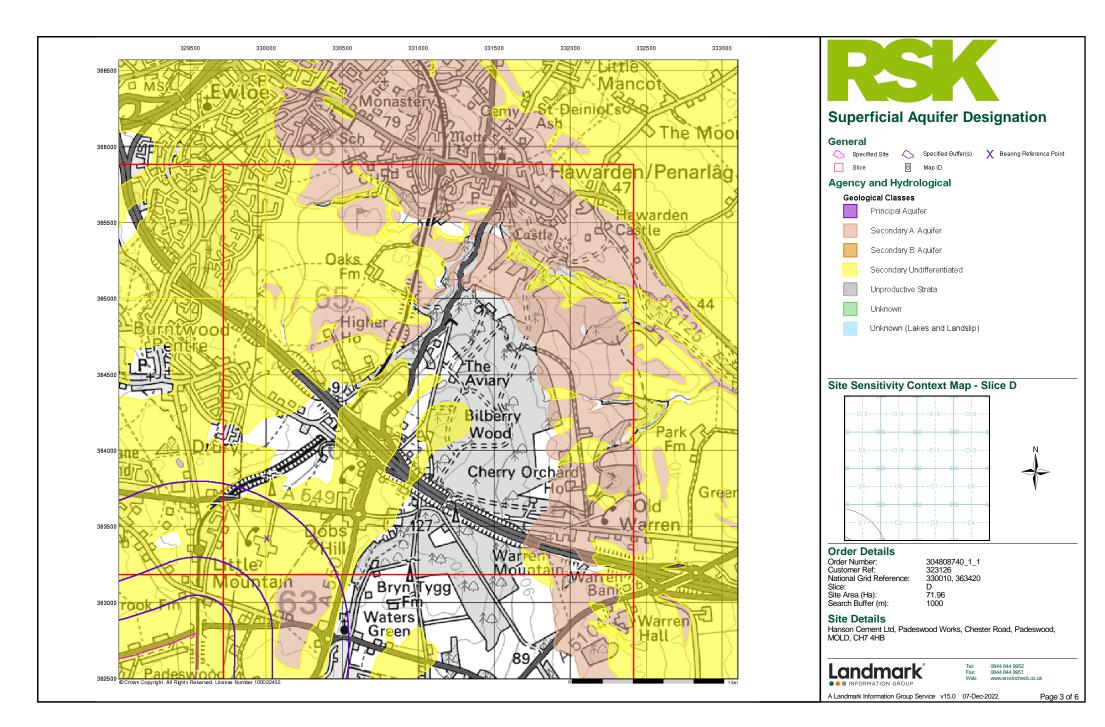


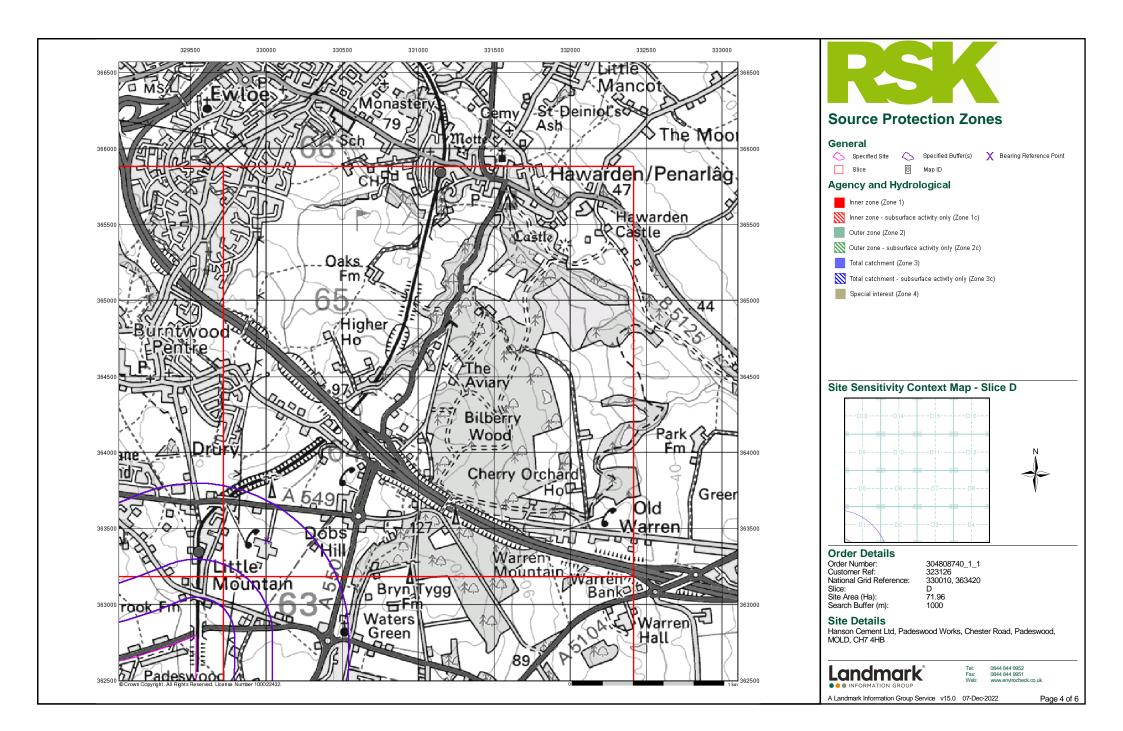
0844 844 9952 0844 844 9951 www.envirocheck.co.uk

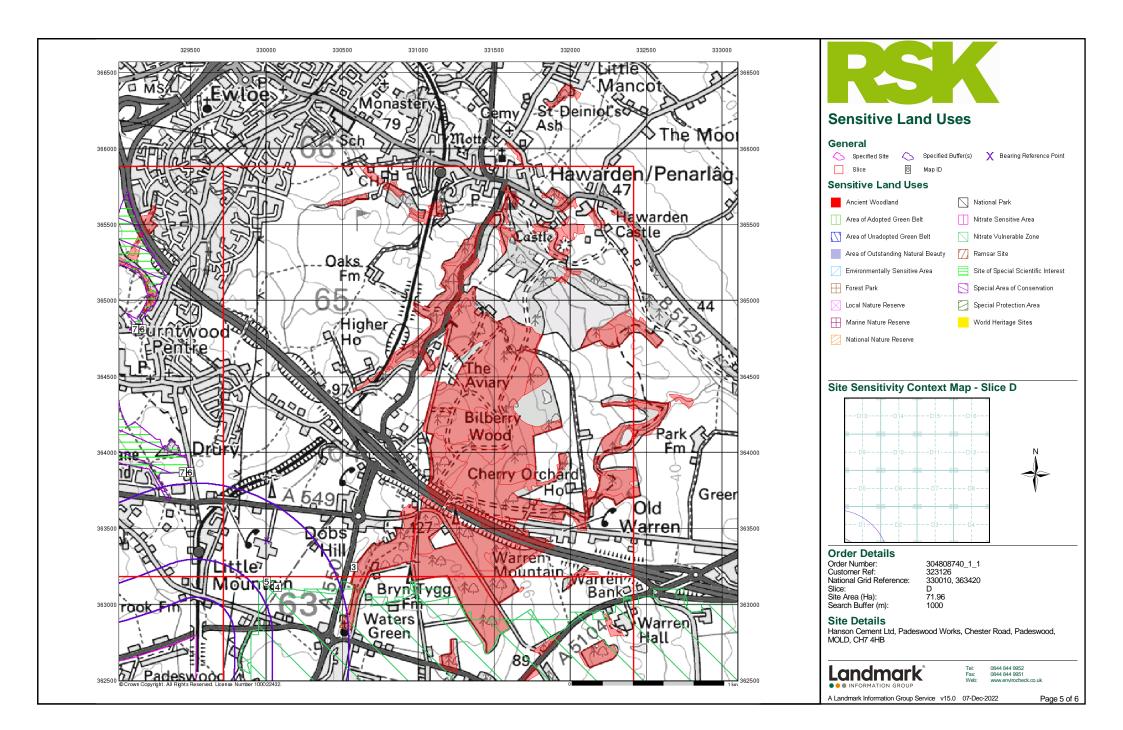


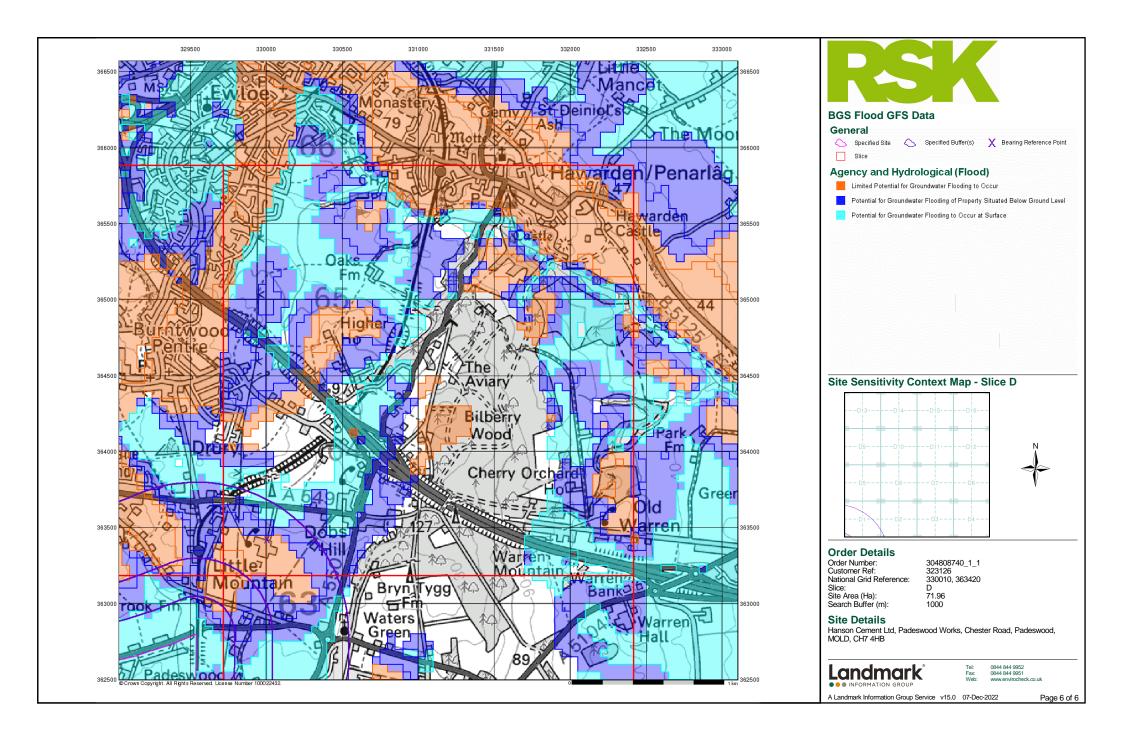














Envirocheck® Report:

Datasheet

Order Details:

Order Number: 304808740_1_1

Customer Reference: 323126

National Grid Reference: 330010, 363420

Slice:

,

Site Area (Ha): 71.96

Search Buffer (m): 1000

Site Details:

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

Client Details:

Mrs F Clayton RSK Environment Ltd Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR





Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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Hazardous Substances	-
Geological	4
Industrial Land Use	5
Sensitive Land Use	6
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Data Suppliers	11
Useful Contacts	12

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

Tor this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0



Summary

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



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 3	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 4	Yes	n/a	n/a	n/a
Mining Instability	pg 4	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 4	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 5				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 6				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 6		2		
Ramsar Sites					
Sites of Special Scientific Interest	pg 6				1
Special Areas of Conservation	pg 6				1
Special Protection Areas					
World Heritage Sites					



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	1	329550 363000
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (S)	0	1	329700 362600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	el (S)	79	1	330000 363100
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el D1SW (S)	149	1	330000 363200
	BGS Groundwater Flooding Susceptibility	(-)			
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (SW)	163	1	329650 363000
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SW (W)	187	1	330000 363420
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (W)	200	1	329250 363250
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (W)	201	1	329550 363250
	BGS Groundwater Flooding Susceptibility				000200
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (SW)	201	1	329600 363100
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el D1SW (N)	351	1	330000 363450
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (W)	363	1	329450 363200
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	411	1	329450 363250
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (W)	422	1	329150 363300
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SW (SW)	432	1	329850 363350
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	460	1	329450 363300
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	460	1	330400 363000
	BGS Groundwater Flooding Susceptibility				
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el D1SW (NE)	460	1	330050 363450
	BGS Groundwater Flooding Susceptibility				000400
	Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Leve	el (W)	463	1	329300 363250
	BGS Groundwater Flooding Susceptibility				000200
	Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	485	1	329150 363420
	Nearest Surface Water Feature				
		D1SW (SW)	408	-	329723 363188



Agency & Hydrological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulne Combined	rability Map Secondary Superficial Aquifer - Low Vulnerability	(S)	0	2	330000
	Classification:		(0)		_	363000
	Combined Vulnerability:	Low				
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer				
	Bedrock Flow:	Well Connected Fractures				
	Dilution: Baseflow Index:	300-550 mm/year <40%				
	Superficial	>90%				
	Patchiness: Superficial	>10m				
	Thickness:	Leu.				
	Superficial Recharge:	Low				
	Bedrock Aquifer De	signations				
	Aquifer Designation:	Secondary Aquifer - A	D1SW (W)	0	2	330000 363420
	Superficial Aquifer	-				
	Aquifer Designation:	Secondary Aquifer - Undifferentiated	D1SW (W)	0	2	330000 363420
	Extreme Flooding for	rom Rivers or Sea without Defences				
		rs or Sea without Defences				
	None					
	Areas Benefiting fro	om Flood Defences				
	None					
	Flood Water Storag	e Areas				
	None					
	Flood Defences None					
	OS Water Network	Lines				
1	Watercourse Form: Watercourse Length: Watercourse Level: Permanent: Watercourse Name: Catchment Name: Primacy:	Inland river 289.7 On ground surface True	D1NE (N)	988	3	330060 363639



Waste

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Author	rity Landfill Coverage				
	Name:	Flintshire Council - Has supplied landfill data		0	4	330006 363420



Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Soli	d Geology				
	Description:	Millstone Grit Group [See Also Migr]	D1SW (NE)	0	1	330006 363420
	Coal Mining Affecte	ed Areas				
	Description:	In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	D1SW (NE)	0	5	330006 363420
	Mining Instability					
	Mining Evidence: Source: Boundary Quality:	Inconclusive Coal Mining Ove Arup & Partners As Supplied	D1SW (W)	0	-	330000 363420
	Non Coal Mining Ar	reas of Great Britain				
	Risk: Source:	Rare British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Collap	sible Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Comp	ressible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Groun	d Dissolution Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Lands	lide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Runni	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
	Radon Potential - Radon Affected Areas					
	Affected Area: Source:	The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). British Geological Survey, National Geoscience Information Service	D1SW (W)	0	1	330000 363420
		adon Protection Measures				
		No radon protection measures No radon protective measures are necessary in the construction of new dwellings or extensions	D1SW (W)	0	1	330000 363420
	Source:	British Geological Survey, National Geoscience Information Service				



Industrial Land Use

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	e Directory Entries				
2	Name: Location: Classification: Status: Positional Accuracy:	Dobshill Hospital (Dyfed) Chester Road, Dobshill, Deeside, Clwyd, CH5 3LZ Hospitals Inactive Automatically positioned to the address	D1SW (S)	725	-	329987 363370



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Ancient Woodland Name: Reference: Area(m ²): Type:	Not Supplied 31185 95191.79 Restored Ancient Woodland Site	D2SW (E)	945	2	330579 363246
4	Nitrate Vulnerable 2 Name: Description: Source:	Zones Not Supplied Surface Water Natural Resources Wales	(S)	19	2	330075 363112
5	Nitrate Vulnerable 2 Name: Description: Source:	Zones Pulford Brook Nvz Surface Water Environment Agency, Head Office	(S)	63	6	330006 363150
6	Sites of Special Sci Name: Multiple Areas: Total Area (m2): Source: Reference: Designation Details: Designation Date: Date Type:	Buckley Claypits And Commons Y 997584.56 Natural Resources Wales 259231wwd	(NW)	906	2	329499 363869
7	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Designated	(NW)	906	2	329499 363869



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Flintshire Council - Environmental Health Department	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	July 2022	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Flintshire Council - Environmental Health Department	April 2016	Variable
	7,011 2010	Valiable
Local Authority Pollution Prevention and Controls		Annual Dalling Lindata
Flintshire Council - Environmental Health Department	April 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Flintshire Council - Environmental Health Department	April 2016	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - North Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Natural Resources Wales	July 2022	Quarterly
Environment Agency - Welsh Region	October 2022	Quarterly
Water Industry Act Referrals		
Natural Resources Wales	July 2022	Quarterly
Environment Agency - Welsh Region	October 2017	Quantony
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
	5018 2010	
Bedrock Aquifer Designations		A
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	



Flooding from Rivers or Sea without Defences		Update Cycle
-		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - North Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - North Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Flintshire Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Flintshire Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - North Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
		+
Planning Hazardous Substance Enforcements	January 2016	Variable
Planning Hazardous Substance Enforcements Flintshire Council Planning Hazardous Substance Consents	January 2016	Variable



Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	A
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	October 2022	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines		
National Grid	October 2021	Bi-Annually
Underground Electrical Cables		
National Grid	May 2021	Bi-Annually



Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Flintshire Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Flintshire Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually



A selection of organisations who provide data within this report

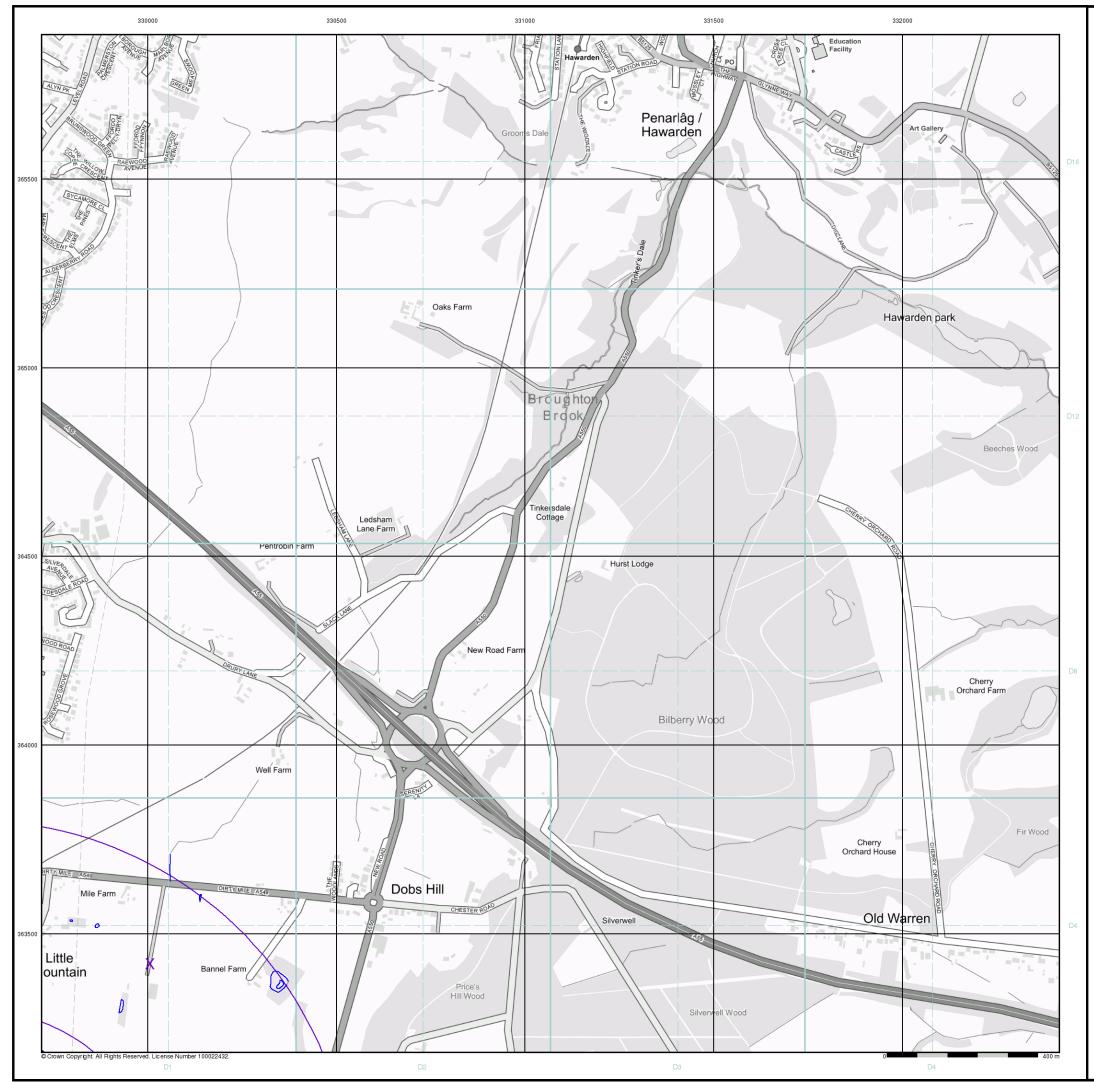
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	ARUP Stantec



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	Flintshire Council - Environmental Health Department County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
5	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
6	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



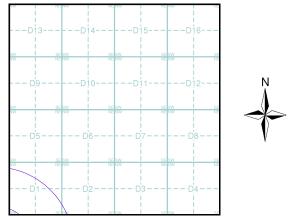


General

Specified Site	C Specified Buffer(s)	X Bearing Reference Point	8 Map ID
		C Deaning Neterence Form	
Several of Type a	at Location		
Agency and	l Hydrological	Waste	
Contaminated Lar (Location)	nd Register Entry or Notice	BGS Recorded Landfill Site (Location)
🚫 Contaminated Lar	nd Register Entry or Notice	BGS Recorded Landfill Site	
🔶 Discharge Conse	nt	🔴 EA Historic Landfill (Buffered I	Point)
A Enforcement or P	rohibition Notice	EA Historic Landfill (Polygon)	
🛕 Integrated Pollutio	n Control	Integrated Pollution Control R Waste Site	egistered
📘 Integrated Pollutio	n Prevention Control	Licensed Waste Managemer (Landfill Boundary)	nt Facility
Local Authority In and Control	tegrated Pollution Prevention	Licensed Waste Managemen	t Facility (Location)
🛆 Local Authority P	ollution Prevention and Control	Local Authority Recorded La	ndfill Site (Location)
Control Enforcem	ollution Prevention and ent	Local Authority Recorded La	ndfill Site
Pollution Incident f	to Controlled Waters	🚫 Registered Landfill Site	
Prosecution Relat	ting to Authorised Processes	Registered Landfill Site (Located Control of Control	tion)
🔶 Prosecution Relat	ting to Controlled Waters	Registered Landfill Site (Point	Buffered to 100m)
A Registered Radio	active Substance	Registered Landfill Site (Point	Buffered to 250m)
🥆 River Network or	Water Feature	👚 Registered Waste Transfer S	Site (Location)
🕂 River Quality Sam	npling Point	IIII Registered Waste Transfer S	Site
🔶 Substantiated Pol	lution Incident Register	Registered Waste Treatment (Location)	or Disposal Site
🔷 Water Abstractio	n	📃 Registered Waste Treatment	or Disposal Site
🔶 Water Industry A	ct Referral	Hazardous Subst	ances
Geological		K COMAH Site	
BGS Recorded M	ineral Site	🙀 Explosive Site	
Industrial L	and Use	MIHHS Site	

- Industrial Land Use
- ★ Contemporary Trade Directory Entry
- 🖈 Fuel Station Entry

Site Sensitivity Map - Slice D



🗱 Planning Hazardous Substance Consent

🗱 Planning Hazardous Substance Enforcement

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

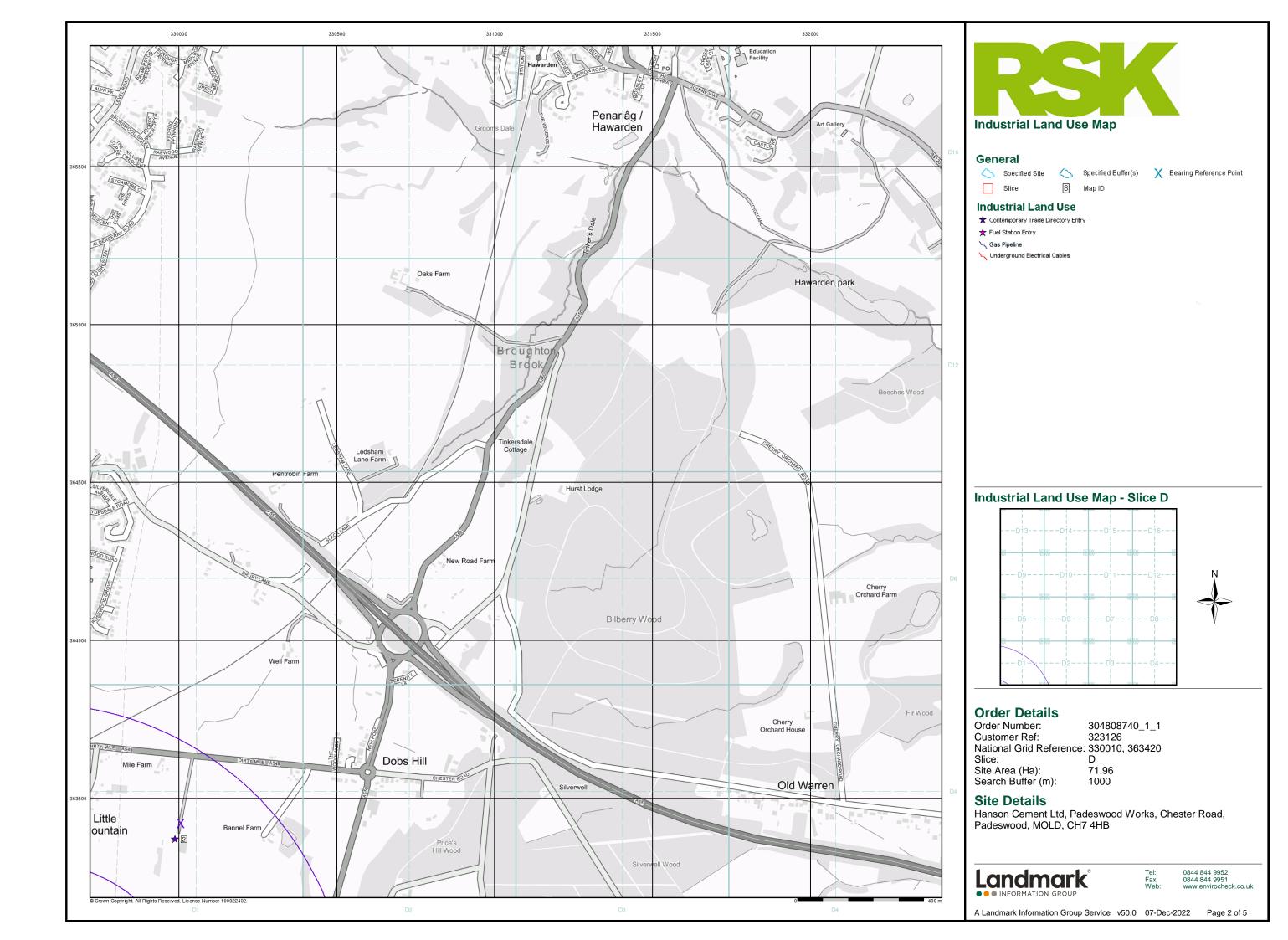
Hanson Cement Ltd, Padeswood Works, Chester Road, Padeswood, MOLD, CH7 4HB

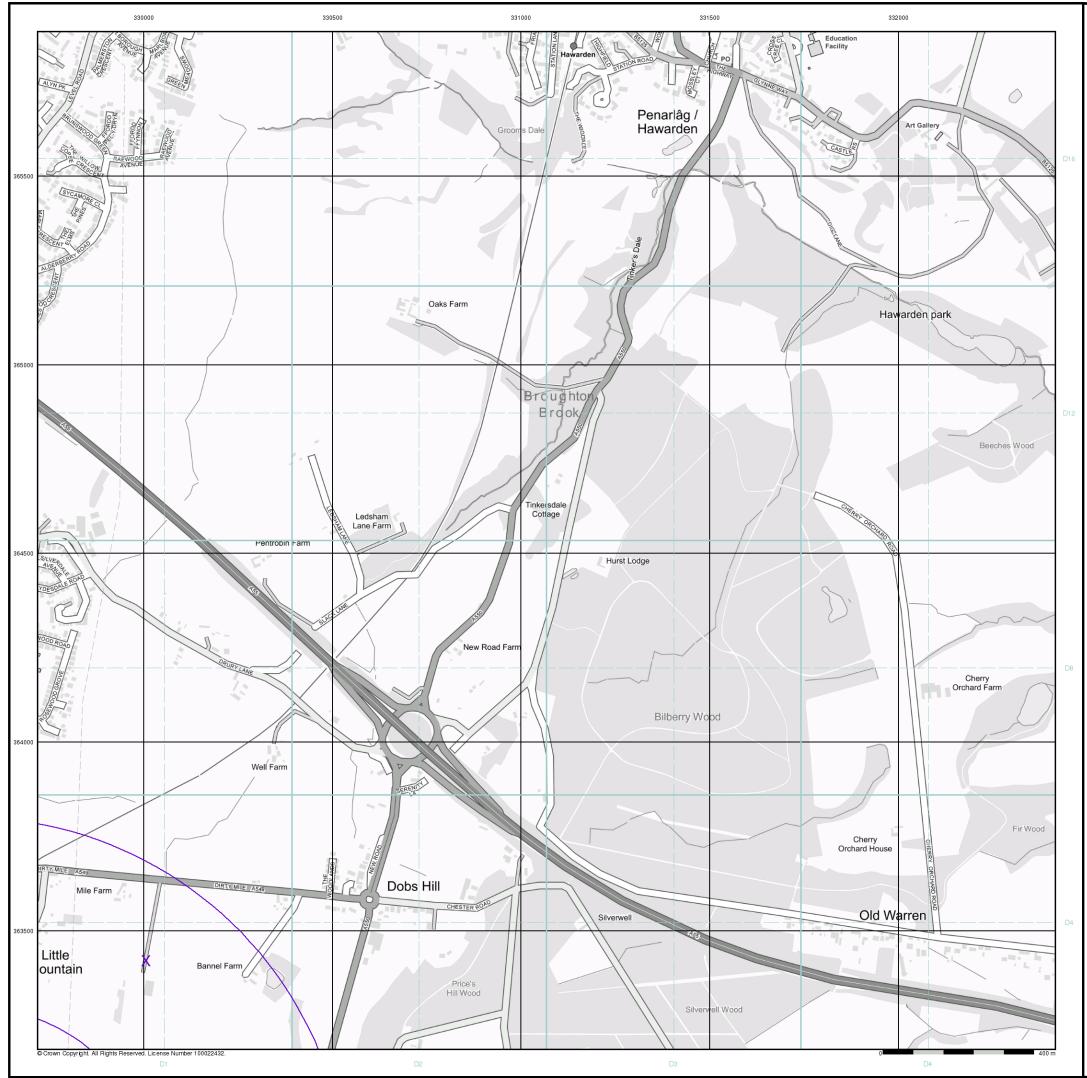


Tel: Fax: Web:

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

A Landmark Information Group Service v50.0 07-Dec-2022 Page 1 of 5







General

🔼 Specified Site

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

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

Flooding from Rivers or Sea without Defences (Zone 3)

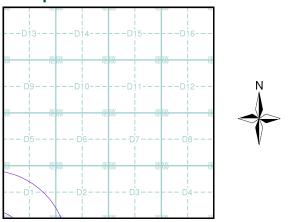
Area Benefiting from Flood Defence



Flood Water Storage Areas

--- Flood Defence

Flood Map - Slice D



Order Details

Order Number: Customer Ref: National Grid Reference: 330010, 363420 Slice: Site Area (Ha): Search Buffer (m):

304808740_1_1 323126 D 71.96 1000

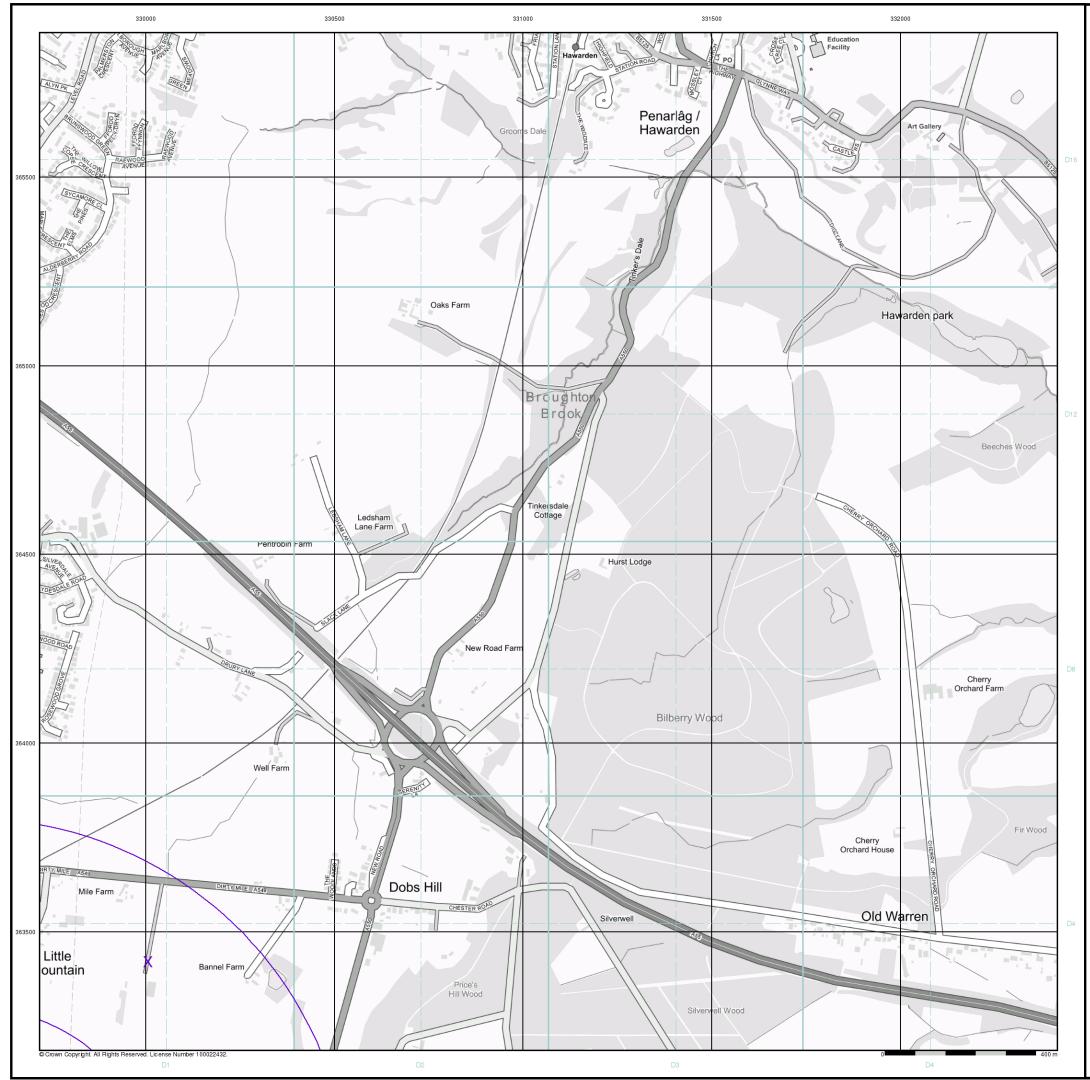
Site Details

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

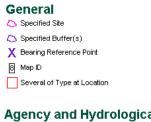




0844 844 9952 0844 844 9951 www.envirocheck.co.uk







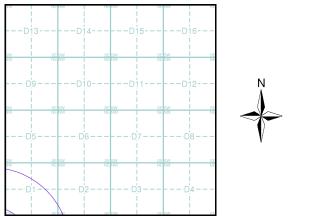
Agency and Hydrological (Boreholes)

- 😑 BGS Borehole Depth 0 10m
- BGS Borehole Depth 10 30m
- 🔴 BGS Borehole Depth 30m + Confidential
- 🔿 Other

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

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

Borehole Map - Slice 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

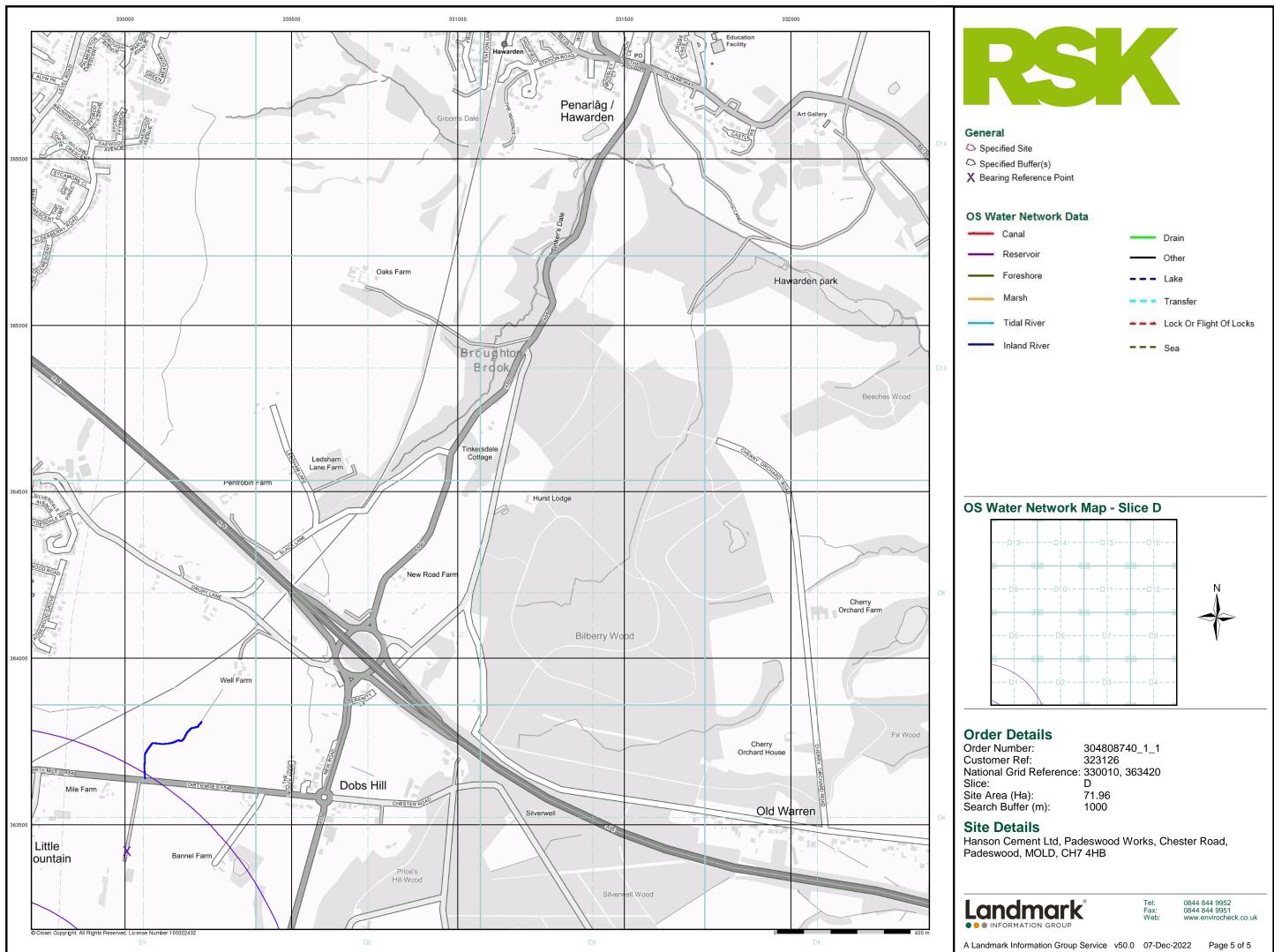
Site Details

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

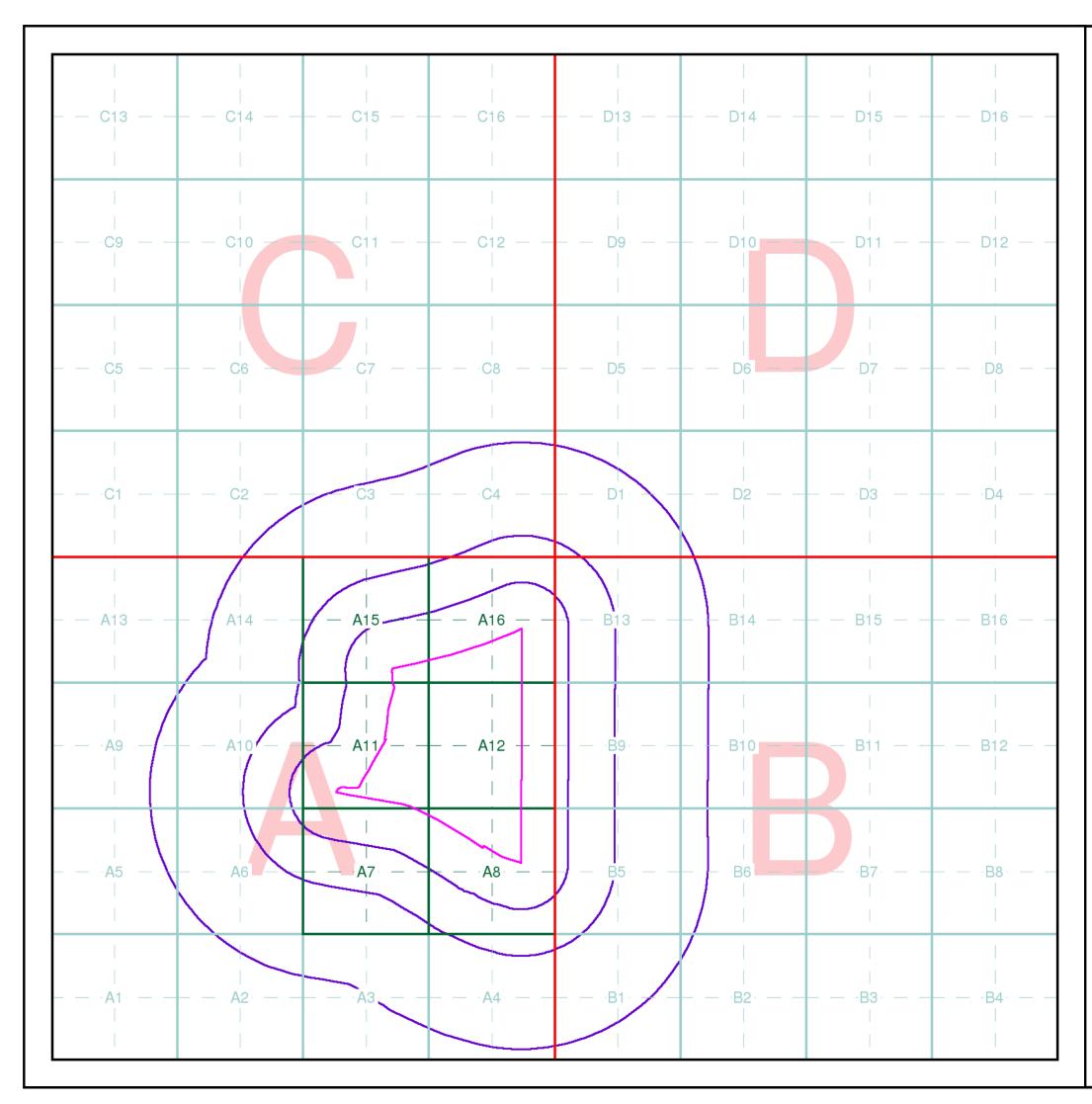




0844 844 9952 0844 844 9951 www.envirocheck.co.uk



Order Number:	304808740_1_1
Customer Ref:	323126
National Grid Reference:	330010, 363420
Slice:	D
Site Area (Ha):	71.96
Search Buffer (m):	1000





Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mrs F Clayton, RSK Environment Ltd, Spring Lodge, 172 Chester Road, Helsby, Cheshire, WA6 0AR

Order Details

 Order Number:
 304808740_1_1

 Customer Ref:
 323126

 National Grid Reference:
 329190, 362180

 Site Area (Ha):
 71.96

 Search Buffer (m):
 1000

Site Details

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

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



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

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



APPENDIX D COAL AUTHORITY CONSULTANTS COAL MINING REPORT

Castle Cement Limited Carbon Capture and Storage Project – Padeswood, North Wales Draft Volume 4, Technical Appendix 12.1 663575-00



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

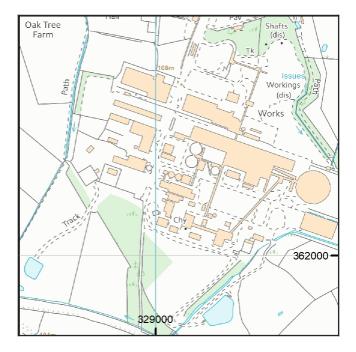
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

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

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

Approximate position of property



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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.

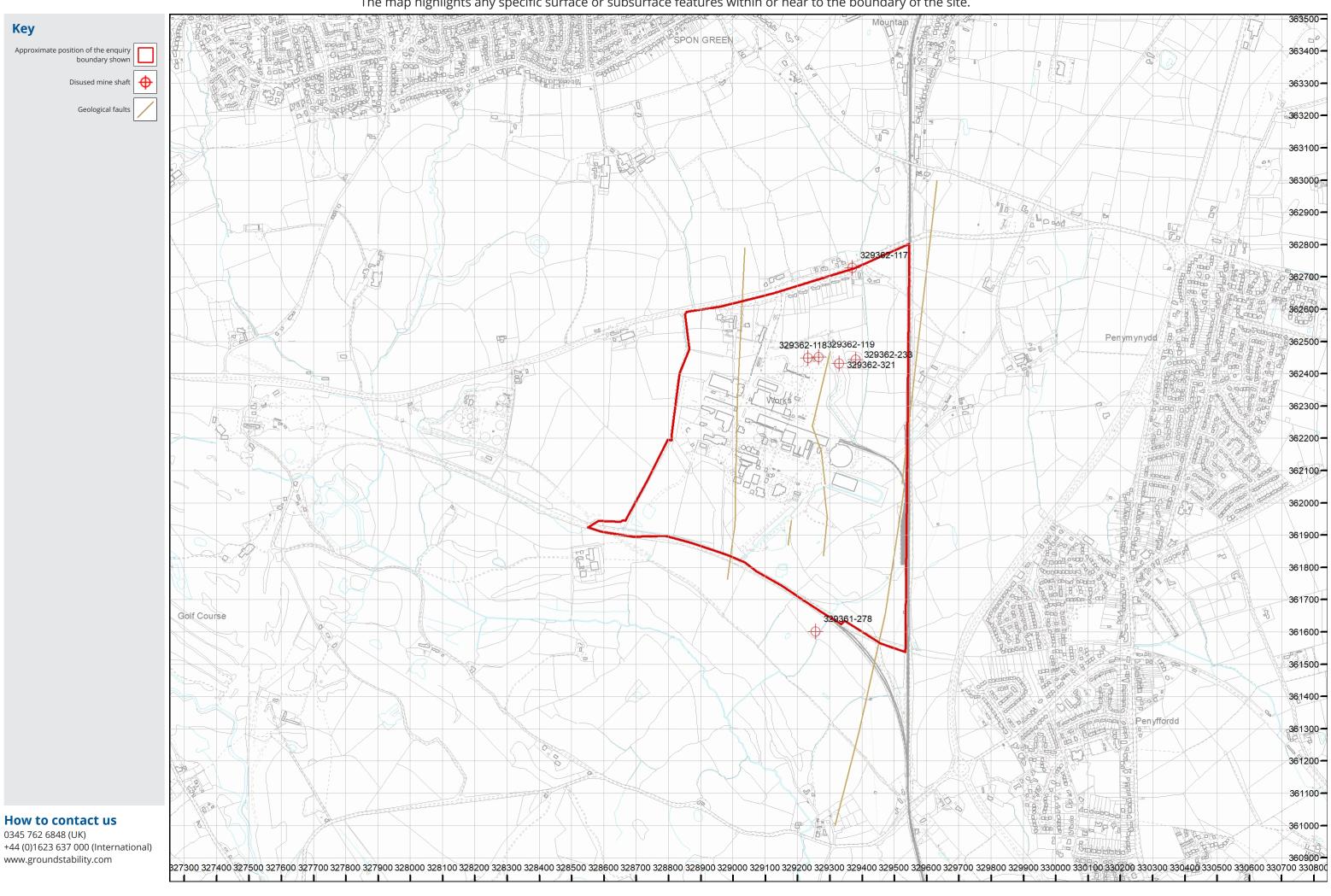
Payment to owners of former copyhold land

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.



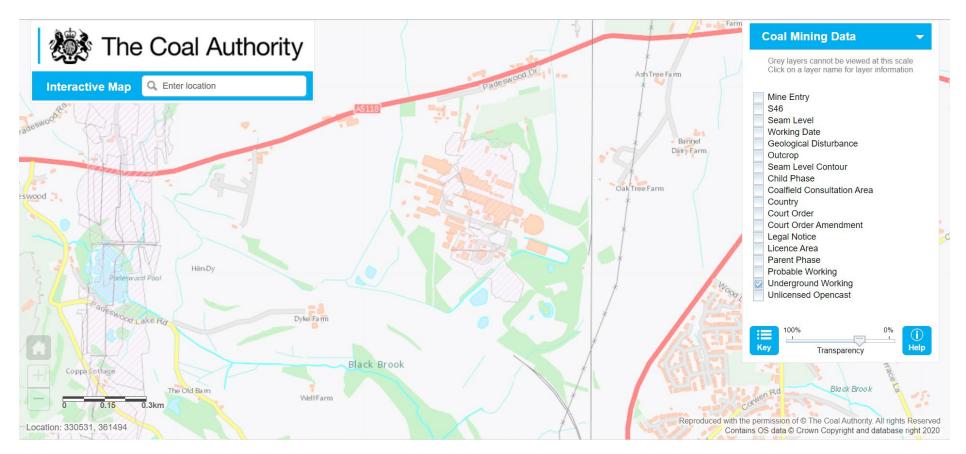




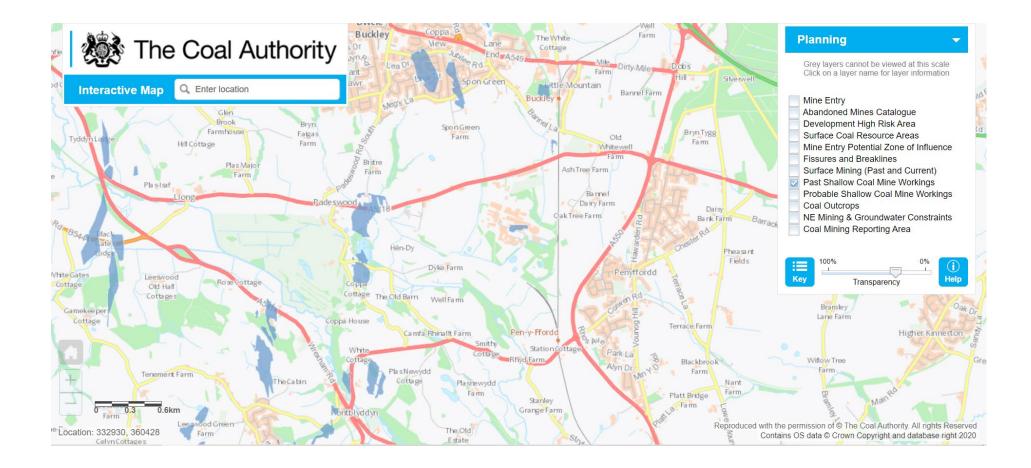
Area of past shallow coal mine workings (centre of site, in area of former Padeswood Colliery)



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.

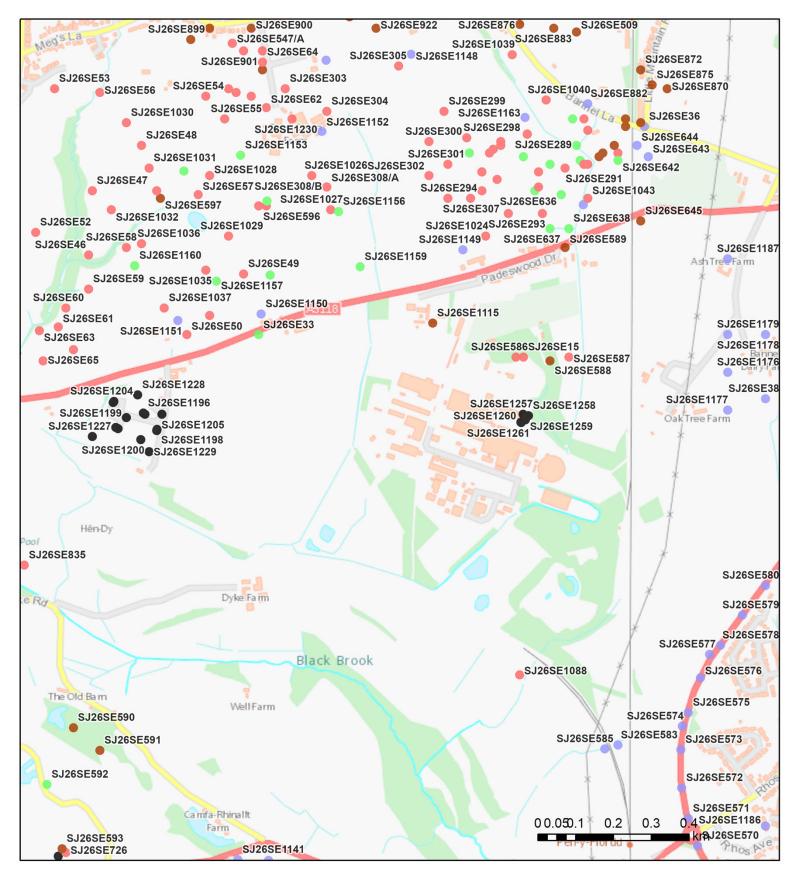




APPENDIX E BRITISH GEOLOGICAL SURVEY (BGS) BOREHOLE LOGS

Castle Cement Limited Carbon Capture and Storage Project – Padeswood, North Wales Draft Volume 4, Technical Appendix 12.1 663575-00

BGS Boreholes Plan



British

Survey

Geological

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+

Page 1 | Borehole SJ26SE15 | Borehole Logs

SECTION OF Shaft /**45₩**′ COUNTY_ Hin Communicated by from Home office plan Nº. 4215 Date of sinking____ Plan dated One-inch Map (N.S.) 10 8 Six-inch Map <u>14_SW</u> E. DIP OF STRATA 1 in 3 to the EAST (Varies HEIGHT ABOVE O.D. Thickness. Depth from Surface. red = method Yards. feet. ins. feet. ins. Yands. Sand & fravel Sands tone Rock (brown) 18.28 60 -18.28 60 85-95282 - 104-24342 Slag. (foring darker a rearing coal) 109-12 360 5.48 18 -Top COAL Black Ban BOTTOM COAL .15 6 109.88 360 - 110.18 361 6 109-88 360 ξ⁴HOLLIN COAL .30 6 110-94 364 2 76 TITAL DEPTH. 364 110.94 * (file Hopwood) this is not Hollin but Premier [Two adjacent shafts. Paderwood Clivery (Remal Polts) No 1. Down wit [2324 6244] ST 265E / 580 NCB Salt No. 117 26 SE ST 3650/15 N.2. Upcast [2126 6244] N.C.B SLA N. 118 Anve section may gody to either shaft] British Geological Survey (57,005). Wt.4857-7. 2000. 5/12. A.&E.W.

WELSH NATIONAL WATER DEE AND CLWYD R		NITY 5126	17
		L SITE RECORD	
British Geological Survey		SJ 2(516
	· · · · · · · · · · · · · · · · · · ·		
NAME Padeswood Hall	N.G.R. 29	02 6253 SJ26 SE/IS	5
EXACT SITE KNOWN YES/NO	LOCATION SKETCH	YBS/NO	
112	ESTIMATED FROM	MAP/SURVEY	
REFERENCE POINT NONE/DETAILS/SECTCH			
LOG YES ANO	LOCATION OF LOG	HERE/I.G.S.	
	Inw	British Geological Survey	
• SUMMARY OF LOG Drift to 69 as a Coal Mensule		Rockhead at	93.36m (15)
Coal menorite		1000	
WATER QUALITY	INFORMATION	YES/NO	
WATER LEVEL INFORMATION	· · · ·		
ABSTRACTION YES/NO/OCCASIONALLY/NOT KN	IOWN/STAND+BY	British Geological Survey	
LICENCE NO.	LICENSED ABSTRA	CTION	
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LOCATION OF RECORDS			
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Page 3 | Borehole SJ26SE15 | Borehole Logs

5326/13 17-1. TIF SECTION OF Shaft ____ Padeswood Hall COUNTY 74 Communicated by for Home office plan N. 4215 Date of sinking Plan de One-inch Map (N.S.) /0 8 Six-inch Map 14 SW. DIF OF STRATA 1 in 3 to the EAST HEIGHT ABOVE O.D. /vnics Thickness. Depth from Surface. Yards. feet. ins. Yards. feet. ins. Sand & fravel Sands tone Rock (brown) Slag. (frig dacker a resning coal) Top COAL Black Bars (HOLLIN COAL BOTTOM COAL) 60 60 282 342 18 360 6 360 361 36L TAL DEPTH. 364 . X (fule Attpurero) this is not Kollin fiel Summier Aritish ((57,005). Wt.4857-7. 2000. 5/12. A.&E.W.

	Institute of Geological Sciences RECORD OF SHAFT OR BOREHOLE		Map Registration N			
	aft or Borcholc: British Geological Survey	SJ265E/S86 National Grid Reference 2924 6244				
For whom made	& Collience (Bunnel Pits) No. 1 Upcart					
	County		•			
_	a fixed point on 1-in or 1:50 000 Map)	1-in or 1:50 000 New Series Map No.	Enter 'C' ii Confidentia			
Purpose for which made .						
	tive to 0.Dm. If not ground level give 0.D. of beg					
Made by British Geological Survey Information fromN		Date of sinking Britsh Geological Su Examined by				
	• •					
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Classification	Aryacant K No. 2. Domcant (SJ 2656/15)		metres			
Classification	Aryacant K No. 2. Domcant (SJ 2656/15)		metres			
Classification	Aryacant K No. 2. Domcant (SJ 2656/15)		metres			
Classification	Aryacant K No. 2. Domcant (SJ 2656/15)		metres			
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· · · ·	Adjacent de N. 2. Doncent (SJ 2656/15) Sie action on N. 2	metres	metres			
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· · · · ·	Adjacent de N. 2. Duncent (SJ 2656/15) Sie action on N. 2 Dillon Coolognan Duney	metres	metres			

. 1	Institute of Geological Sciences RECORD OF SHAFT OR BOREHOLE	6-in or 1:10 000 Ma SJ 26 ST	
Name and Number of Shaf	ft or Borehole: Hell Colling [unrand shaft]	National Grid	d Reference
For whom made		2931	8 6244
	County County N	1-in or 1:50 000 ew Series Map No.	Enter 'C' il Confidentia
Purpose for which made _			·····
Ground level at shaft bore relations and bore bore states the states of	tive to O.Dm. If not ground level give O.D. of beginning ofDa	shaft bore te of sinking	
nformation fromNe	CB No. 233 British Genlagical Gunnay Exc	amined by ish Geologics	il Sunrey
	•		
Geological		Thickness	Depth
Geological Classification	Description of Strata	metres	Depth metres
	Description of Strata Dissi Certago Surey 150' to Cal (Premier or somewhat higher Fram) Information for WBR Kang fillship Plant 14 Strafe, 191 also Flant de Tennoir (1924), p. 118.	metres	metres Juvey
	150' to Carl (Premier or somewhat higher sum) Information for WBR King fillstip Rent 14 Sule, 191	metres	metres
niish Geological Sulvey	HUST GEORGICATSONEY 150' to Carl (Pramies or somewhat higher scam) Information for WBR King fillship Rent 14 State, 191 cha Flint St. ransis (1924), p. 118.	metres	metres
Geological mish Geological Survey	150' to Carl (Primier or somehot higher Fram) Information for WBR King filletig Rent 14 Staffe, 191 alm Flint de. ranoir (1924) + p. 118.	2,	metres

Page 2 | Borehole SJ26SE587 | Borehole Logs

Version 2.0.6.6



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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 V Next > >>

S	Bhaft Regis-	Parish	Name of Colliery		In Feet		Top of	National	Sour					In	
	ter No.	Toright	& Name and/or No. of shaft or adit	Dia.	Depth	Depth to Water	0.D.	Co-ordinates	Abandonment Plans etc.	6 inch Geol.	1:2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File	Remarks
-	14 258]		haddy Juda C.H. () (Lette ranki Con) Egin R.K	-ned/o/c	2.40' -6 Tein			2954 6345	1766 13434	F145w 1923	F 14 10 1870 Naurotun CLIKul m 1899				No to a 5/68 Staff lasted by degline 14/1/21 4 die ratain flat w. rat rela band day 350, an frite habent which all is question, an the prog
	British In	Seological Su	Buckley Justic Cl. Aris Pol		40'		British	29422 (3403 ST 2P(3	Builley Justin 8977 Cank Hes				ilish Geold	nical Sur	to the stip
	/1)							[2964 (315] 7alan boon NGB 1:14:56 stift = 49	13474 (R10)						Ĺ
	114							[2957 6306] Tala for web 1:1056514ft mp	-						-
	15		Bannel Coll. ADIT Upcent		Banug 48' Rug 13' Plan - 168'			29 472 62 947 - 980 -	hend Coll. SEH Bring Royh 10		-				U
	μ		Bunch CH ADIT Diment		hung 43' Rug L 133' Heni Kt'			20 466 (2 -98- ? 970 ?	v						-
	#? British (Jeological St	NOY			-		29 372 (2 72 P Geological Surv SJ 28(2	fel		F 14,10 1899	SJ 2M2 1961	ritish Geold		• NCY
	118		Padesevord Kell GH. Bennel R.G. No 2 Upcart		360' Premier			29 2 34 62445 ST 28(2	Redeaned kell Gil. 4218 Kalhin 17.Ca	F 14 5V 1923	F14,10 1899 1912		13.5		Dynami 5/17
1	119		No I Down cont		360' Premsir 364'			2 4 267 6 2 448 SJ 2862	p	0	л		/30		19
Ŀ	20		Internet CIL (No)		To Canal Cu'			2/2/3	Rehammed Gil. 2258 Kathin churd Kunin Cound 3761 Cound				171		No toma 5/18

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Page 3 | Borehole SJ26SE587 | Borehole Logs

Version 2.0.6.6



BGS ID: 149258 : BGS Reference: SJ26SE587 British National Grid (27700) : 329380,362440 Report an issue with this borehole

<< <p><< Prev Page 3 of 3 </p>

	Shaft		Namo of Colliery		In Feet		Top of Shaft to	National	Sourc		ult for infor			In	
	Regis- ter No.	Parish	Namo of Colliery & Name and/or No. of shaft or adit	Dia.	Depth	Depth to Water	Shart to 0.D.	Grid Co-ordinates	Abandonment Plans etc.	6 inch Geol.	1 : 2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File	Remarks
2/	231		Lattle Mantanii Collicy, Ad nit [how halles]					2957 (320		F145w (* 1923					Not a regular lefore Regul and Ray 1973
, []	ril øb2 Gei	logical Survey			To Kellin Caller Little Zon	Tariburd	rilish Ge	1012925 (352 1		-		Britis	h Geologic	Cuney,	ved a syntectifier
7	233		heleserved kell GII.		15% V Cal			2938 6244							
,	234		RI ILA							÷					e Cupand with Uni Runs de har
	23r		Buckley lole Unnered shift						149-2 (R13) plated on 6 and porte yo						Concord with River &
	23(,				[2960 (316] 766 Kan NGB 1:1076 ruft mg	Hurrden 13434 (R19)						Not an kepe to Cefre ? for Walkdam
	237		Polaty	85				293(4 64 673			F14, L 187- 1899				Mit a Ryalto lefa
	23P	ilogical Suns	Lasswood Grow		T= Alui [NRG 4/4]		Intish Ge	53 2994 2(57-5 6: 652 57266-	Lass work frem Rum God Nt 14900		17,1 17,1	Diff.	h Geologia 741	il Sunrey	÷
	239		[Pmtraydayn - was vk]			Liste ture		27270 60100 ST266	1492) Lag Rontheyldyn Nam		-				1
	240							27215			4				

	Institute of Geological Sciences RECORD OF [?] SHAFT <u>OR_BOREHOLE</u>	6-in or 1:10 000 Map Registration N $51 \ 26 \ 5E / 588$					
Name and Number of Sh	aft or Borehole: British Geological Survey	National Grid Reference					
Pader	word Kell Cilling						
For whom made	•	2933 (243					
	a fixed point on 1-in or 1:50 000 Map)	l-in or 1:50 000 New Series Map No.	Enter 'C' if Confidential				
		1.8					
Purpose for which made	•						
	ative to O.Dm. If not ground level give O.D. of beg						
	British Geological Survey						
	· · · · · · · · · · · · · · · · · · ·						
Geological	Description of Strate	Thickness	Depth				
Geological Classification	Description of Strata	Thickness metres Frick Genarical Su	Depth metres				
Geological Classification	British Geological Suprov		-				
Geological Classification	British Geological Suprov		-				
Geological Classification			-				
Geological Classification	Posith shaft. On WBR King Fieldship (1912) an ? shaft.		-				
Geological Classification	Posith shaft. On WBR King Fieldship (1912) an ? shaft.		-				
Geological Classification	Posith shaft. On WBR King Fieldship (1912) an ? shaft.		-				
Geological Classification	Posith shaft. On WBR King Fieldship (1912) an ? shaft.		-				
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<u>iich Goologieol Sunny</u>	Bruich Bestined Gunge Bruich sheft. On WBR King Filledig (1912) os ? sheft. Dynnim winkle 1986.	metres Artich Geological Su	-				
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<u>itinh Goological Super</u> y	Bruich Bestined Gunge Bruich sheft. On WBR King Filledig (1912) os ? sheft. Dynnim winkle 1986.	metres Artich Geological Su	-				
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<u>ritinh Goologinal Sunny</u>	Bruich Bestinger Gunge Bruich steft. On WBR King Filledig (1912) os ? steft. Dynnim winkle 1986.	metres Artich Geological Su	-				

Page 2 | Borehole SJ26SE588 | Borehole Logs

Version 2.0.6.6



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

< Prev Page 2 of 3 V Next > >>

S	Bhaft Regis-	Parish	Name of Colliery		In Feet		Top of	National	Sour					In	
	ter No.	Toright	& Name and/or No. of shaft or adit	Dia.	Depth	Depth to Water	0.D.	Co-ordinates	Abandonment Plans etc.	6 inch Geol.	1:2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File	Remarks
-	14 258]		haddy Juda C.H. () (Lette ranki Con) Egin R.K	-ned/o/c	2.40' -6 Tein			2954 6345	1766 13434	F145w 1923	F 14 10 1870 Naurotun CLIKul m 1899				No to a 5/68 Staff land by degline 14/1/21 4 die ret bisk flak w. ret rete band dig Date, an fritte habent which all i guestin, an the prog
	British In	Seological Su	Buckley Justic Cl. Aris Pol		40'		British	29422 (3403 ST 2P(3	Builley Justin 8977 Cank Hes				ilish Geold	nical Sur	to the stip
	/1)							[2964 (315] 7alan boon NGB 1:14:56 stift = 49	13474 (R10)						Ĺ
	114							[2957 6306] Tala for web 1:1056514ft mp	-						-
	15		Bannel Coll. ADIT Upcent		Banug 48' Rug 13' Plan - 168'			29 472 62 947 - 980 -	hend Coll. SEH Bring Royh 10		-				U
	μ		Bunch CH ADIT Diment		hung 43' Rug L 133' Heni Kt'			20 466 (2 -98- ? 970 ?	v						-
	#? British (Jeological St	NOY			-		29 372 (2 72 P Geological Surv SJ 28(2	fel		F 14,10 1899	SJ 2M2 1961	ritish Geold		• NCY
	118		Padesevord Kell GH. Bennel R.G. No 2 Upcart		360' Premier			29 2 34 62445 ST 28(2	Redeaned kell Gil. 4218 Kalhin 17.Ca	F 14 5V 1923	F14,10 1899 1912		13.5		Dynami 5/17
1	119		No I Down cont		360' Premsir 364'			2 4 267 6 2 448 SJ 2862	p	0	л		130		19
Ŀ	20		Internet CIL (No)		To Canal Cu'			2/2/3	Rehammed Gil. 2258 Kathin churd Kunin Cound 3761 Cound				171		No toma 5/18

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Page 3 | Borehole SJ26SE588 | Borehole Logs

Version 2.0.6.6



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



Shaft Regis- Pa ter No.		Name of Colliery & Name and/or No. of shaft or adit	In Feet		Fop of National Shaft to Grid	Source to consult for information				In				
	Parish		Dia.	Depth	Depth to Water	to 0.D. Co-ordinates	Grid Co-ordinate	Abandonment Flans etc.	6 inch Geol.	1:2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File	Remarks
		Pademond Kall Collies					2933 6243		Plint 1454/E 1912 Fieldstip					Nertukan fullaky an ? sty Departion 1985.
British (eological Sun					British G	eological Suriey					sh Geologi	al Survei	
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								1						
British 6	eological Sur	Contraction of the second	·····			British G	eological Survey					sh Geologi	tal Surve	
							••							

	Institute of G	6-in or 1:10 000 M	6-in or 1:10 000 Map Registration				
	RECORD OF SH	5736	SE / 589				
Name and Number of Shu	eft en Banchala	· . Dilitich de la contract de la					
		National G	rid Reference				
	shift.	2937 627	2 Fe				
For whom made			295/62/				
Town or Village		County	1-in or 1:50 000	Enter 'C'			
Exact site (reference to	a fixed point on 1-in	or 1:50 000 Map)	New Series Map No.	Confidenti			
Purpose for which made		• ·	168				
		m. If not ground level give O.D. of	beginning of shaft	m			
bore Made by							
British Geological Survey	(ch No. 117	British Geological Survey	Date of sinking British Geological Surv				
nformation from			Examined by				
British Geological Classification		Description of Strata	Thickness metres	Depth			
British & Geological Classification		5 kmm .					
British ^C Geological Classification	WBRKing	5 kmsin .	metres				
Britsh C Geological Classification		5 kmsin .	metres				
Brish Geological Classification	WBRKing	5 kmm .	metres				
British Geological Classification	WBRKing	5 kmsin .	metres				
Britsh Geological Classification	WBRKing	5 kmsin .	metres				
British & Geological Classification	WBRKing	5 kmsin .	metres				
	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				
	WBRKing	5 kmsin .	metres				
British Geological Classification	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				
	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				
	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				
	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				
	WBRKing	fulldy 1912 (dupliete) Atts fulldy 1912 (dupliete) Atts pat, reputed and a full" My	s/v/k				

Page 2 | Borehole SJ26SE589 | Borehole Logs

Version 2.0.6.6



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

<< <p><< Prev Page 2 of 2 </p>

Shaft Regis-	Parish	Name of Colliery & Name and/or No.		In Feet		Top of	National	Sour	ce to cons	sult for infor	mation		In	1
ter No.	of shaft or adit	Dia.	Depth	Depth to Water	Shaft to 0.D.	Grid Co-ordinates	Abandonment Plans etc.	6 inch Geol.	1 : 2500 County Sheet	Other 0.S. Sheets	Other Sources	Insp. File	Remarks	
1 [sum 09 2:53]		Rubby Juda C.H. (?) (Little Ranhi Con) Engin R.K	-ned/sk	240' 16 Tein			2954 6345	1766 13434	F145w 1923	F 14 10 1870 Naurolan CLIRCal m 1899				No to a 5/28 Staff Lantal Ly degline 14/1/1 4 die not Lich flad v. not stale La bald y Dore, a faiter tradent entrie alter question, a the jog
British In	Geological Su	Kuchley Justin C.I. Aris Pol		40'		British	62 94 82 (3 403 ST 2813	Builley Justin 8977 Crack Hills				nish Geolo	109 AU	to the stip
/17							[2964 (315] Talue Form NCB Teles She Shift ang	13474 (R10)						
114							[2957 6306] 724 for wes 1:105Costaft up	-						-
15		Bannel Cell. ADIT Upcent		Banug 48' Roy L 133' Plan - 168'			29 472 62 - 947 - 980 - 7 57 2872	hennel Coll. SE41 Bronny Royh Taii		-				U
μ		Benel CII AD17 Dencent		Anny 43 Rig L 133' Marie 162'			29 466 (2 88 770 ? SJ 2862	¥						-
117 British	Geological St					British	29 372 (2 728 Geological Surv St 2862			1899	SJ 2 M2 1961	ritish Geolo		
118		Indeserved Kill GII. Bennel R.G. No 2 Upcart		Ku' Premier			29 2 34 62445 ST 28(2	Pedenund kell Gil. 4218 Kalhin 17 Ca	F145V 1923	F14,10 1899 1912		135		Dynami 5/17
119		No I Downcont		36.' Premsir 364'			2 4 2 67 6 2 4 4 8 SJ 286 2	r p	0	'n		130		19
120		Internet CIL (No)	,	To Connel Cul Unovia			27213	Rehand Gl. 2258 Katic chul Kunic Cound 3761 Cound				171		No toma stra

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	Institute of Geological Sciences	6-in or 1:10 000 M	6-in or 1:10 000 Map Registration N				
	RECORD OF SHAFT OR BOREHOLE		SJ265E/1088 British Geological Survey				
		SJ263					
h Geological Survey Name and Number of S	British Geological Survey						
	Wat the Milling's Groud	National Gr	National Grid Reference				
,	·						
For whom made							
Town or Village	County	1-in or 1:50 000	Enter 'C' if Confidentia				
Exact site (reference t	to a fixed point on 1-in or 1:50 000 Map)	New Series Map No.	Confidentia				
Purpose for which mad	le						
Ground level at ^{shaft} bore ^{re}	elative to O.Dm. If not ground level give O.D. of						
Made by a Survey	Brilistr Geological Survey	Date of sinking					
Information from	NCB No. 278	Examined by	Examined by				
£	Specimen Numbers and Additional N	Notes					
	te not definite	Thickness					
Sh Geological Classification	te not definite Description of Strata	Thistop	Depth metres				
	Description of Strata	Thickness	metres				
	te not definite Description of Strata	Thickness	- II				
	Description of Strata	Thickness	metres				
	Elish Description of Strata $\frac{-28 \text{ yr. K Cancel (44ft)}}{(25 \text{ box})} (122)$	Bring Thickness metres	metres				
	Elish Description of Strata $\frac{-28 \text{ yr. K Cancel (44ft)}}{(25 \text{ box})} (122)$	Bring Thickness metres	mėtres				
	Elish Description of Strata $\frac{-28 \text{ yr. K Cancel (44ft)}}{(25 \text{ box})} (122)$	Bring Thickness metres	metres				
	Elish Description of Strata $\frac{-28 \text{ yr. K Cancel (44ft)}}{(25 \text{ box})} (122)$	Bring Thickness metres	metres				
sh Geological Classification	Description of Strata 28 yl. & Cancel (4ff) (25 60m) (120)	Bring Thickness metres	metres				
	Elish Description of Strata $\frac{-28 \text{ yr. K Cancel (44ft)}}{(25 \text{ box})} (122)$	Bring Thickness metres	2 1 · 6 .				
sh Geological Classification	Description of Strata 28 yl. & Cancel (4ff) (25 60m) (120)	Brin Thickness metres	2 1 · 6 .				
sh Geological Classification	Description of Strata 28 yl. & Cancel (4ff) (25 60m) (120)	Brin Thickness metres	2 1 · 6 .				
sh Geological Classification	Description of Strata 28 yl. & Cancel (4ff) (25 60m) (120)	Brin Thickness metres	2 1 · 6 .				
sh Geological Classification	Description of Strata 28 yl. & Cancel (4ff) (25 60m) (120)	Brin Thickness metres	2 1 · 6 .				

		265 E	Leave	
A CONTRACT OF CONTRACT.	WELSH NATIONAL WATER D DEE AND CLWYD RIV	EVELOPMENT AUTHOR	<u>TTY</u>	
E		TATATION TOTAL	SITE RECORD	l
	5.2488	15 2902 6253	<u>SJ 26</u>	16
NAME Podesio-	at Hall	N.G.R. 290	02 6253	
EXACT SITE KNOWN HEIGHT A.O.D. REFERENCE POINT	YES/NO 112. <u>METRES</u> NONE/DETARLS/SKETCH	LOCATION SKETCH ESTIMATED FROM	yds/ no map/survey	
LOG	YES	LOCATION OF LOG	HERE/I.G.S.	
SUMMARY OF LOG	Drift stobolsmy (Coal Mensutes	18:3m) to 361'	British Geological Survey Rockinscod of	92-Somfili
WATER QUALITY		INFORMATION	YPS/NO	
WATER LEVEL INFORM Build ABSTRACTION YN LICENCE NO.	ATTION S/NO/OCCASIONALLY/NOT KNO British Geological Survey	WN/STAND÷BY LICENSED ABSTRA /HOUR	L <u>CTION</u> Geological Survey /DAX	/YEAR
PUMPING TEST	yes/NO	DATE		
LOCATION OF DATA	/			
Brilish Georgy MATER LEVELS REC LOCATION OF REC	ORDED NONE/ISOLATED RE	DINGS/MONTHIAL/AUT	GRAPHIC British Geological Survey	
ACCIESS				

an . .



APPENDIX F UXO RISK MAP

Castle Cement Limited Carbon Capture and Storage Project – Padeswood, North Wales Draft Volume 4, Technical Appendix 12.1 663575-00

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 329146,362315



LEGEND

High: Areas indicated as having a bombing density of 50 bombs per 1000acre UXO find miltary industry or higher. Luftwaffe Moderate: Areas indicated as having a bombing density of 15 to 49 bombs transport dock targets per 1000acre. Low: Areas indicated as having 15 bombs per 1000acre or less. utilities 11 Bombing decoy other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything? If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682

email: uxo@zetica.com

web: www.zeticauxo.com

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (https://zeticauxo.com/downloads-and-resources/risk-maps/)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.



APPENDIX G SITE RECONNAISSANCE PHOTOGRAPHS

Castle Cement Limited Carbon Capture and Storage Project – Padeswood, North Wales Draft Volume 4, Technical Appendix 12.1 663575-00



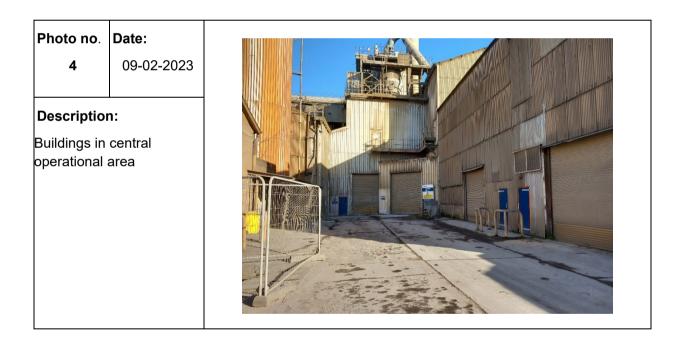
APPENDIX A SITE RECONNAISSANCE PHOTOGRAPHS

no. Date: 09-02-2023 otion: n of silos within perational area

Photo no. 2	Date: 09-02-2023	
Descriptio	n:	
External su centre of op of site	bstation in perational area	



Photo no. Date: 3 09-02-2023 Description: External substation





5 09-02-2023

Description:

Barrels containing metal balls using in milling of raw products



Photo no. 6	Date: 09-02-2023	
Description Area of stan adjacent to o	ding water	



Photo no.Date:709-02-2023





9 09-02-2023

Description:

Interceptor close to coal store





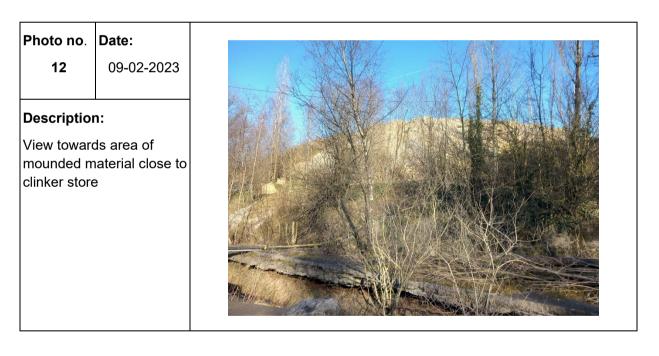


11 09-02-2023

Description:

Standing water in base of channel with white/pale brown impact







13 09-02-2023

Description:

Further impacted standing water in base of channel to east of coal store



•	Date: 09-02-2023	
riptio r al buile		
aling of p nd buildir	banels on left- ngs has been to prevent	



15 09-02-2023

Description:

Central area, with train entering site to deliver coal



Photo no. 16	Date: 09-02-2023	
Descriptior Silos loadin		



17 09-02-2023

Description:

Area to north-east of operational area, with stream channel in woodland



10.	Date: 09-02-2023			
escriptio	n:	X.M		
mounded r	from top of nade ground linker store to age			



19 09-02-2023

Description:

Side slope of mounded made ground material to north-east of operational area. Vegetation has established on mound



Photo no. 20	Date: 09-02-2023	
	ound, showing	
extent of ve	getation	



21 09-02-2023

Description:

Slope of mounded made ground



to no. 22	Date: 09-02-2023		L
escriptio	n:		au.
made grour	pe down on		
woodland a channel		and a	
			T B



23 09-02-2023

Description:

Some waste materials present at surface in area of mounded made ground



Photo no. 24	Date: 09-02-2023		K typpi
Descriptio	n:		
	tern side of nade ground		



Description:

Area of stored miscellaneous waste, including metal, plastic, concrete and vehicles



Photo no.	Date:	
26	09-02-2023	
Description	n:	
Area of stor miscellanec including m concrete ar	ous waste, etal, plastic,	



27 09-02-2023

Description:

Mound of made ground to north of clinker store



o no. 28	Date: 09-02-2023	
scriptior	ו:	
	n of ground in ide ground rick and	



29 09-02-2023

Description:

Mounded waste/made ground material to north of clinker store/limestone delivery area



to no.	Date:
30	09-02-2023
Descriptic Deep wate channel to of mounde ground	ercourse east of area



31 09-02-2023

Description:

Fields in far north east of site







33 09-02-2023

Description:

View across eastern field. Far field boundary is site boundary, with railway beyond.







35 09-02-2023

Description:

Small substation adjacent to area of residential housing within north eastern section of site



to no. 36	Date: 09-02-2023	
ription	1:	
	Hall- derelict orth west of	



37 09-02-2023

Description:

Woodland area in north west corner of site



oto no. 38	Date: 09-02-2023	
escriptio	n:	
Area of ma within centr section of s	re of northern	



39 09-02-2023

Description:

Wheel wash facility in centre of site. Security lodge/gatehouse visible to left of image







41 09-02-2023

Description:

Location of vehicle washing and refuelling area in centre west of site



	Date: 09-02-2023	
ptio	n:	
	nd detergent /ehicle washing	Particular and the second



43 09-02-2023

Description:

Levelled area, with evidence of top-scraped material having been pushed to perimeter



ptior		
	a adjacent to centre west	



Photo no. Date: 45 09-02-2023 Description: Large double skinned fuel tank





47 09-02-2023

Description:

Labelling on fuel tank: Product Gas oil, capacity 27,500 litres







49 09-02-2023

Description:

Storage of metal balls used in milling



Photo no. 50	Date: 09-02-2023	
Descriptio	n:	
Main waste labelled ski waste strea	ps for various	



51 09-02-2023

Description:

Special waste area, including barrels storing waste oily rags and waste oil prior to removal from site







53 09-02-2023

Description:

Route of public footpath passing down western side of operational area (which is within the fenced area on the right)



Photo no.	Date:	
54	09-02-2023	
Description	n:	the contraction of the contracti
View across section of s biodiversity	ite- fields and	



55 09-02-2023

Description:

Cables crossing southern section of site



Photo no. 56	Date: 09-02-2023	
main installa indication o mounded m licensed lar	outh towards ation, providing f elevation of naterial in	



57 09-02-2023

Description:

Slope of landfill area on right of image. Route of footpath passing along left edge of image



hoto no. 58	Date: 09-02-2023	
Descriptior	ו:	A REAL PARTY AND A REAL PROPERTY AND A REAL PR
Equipment site bounda watercourse		



Photo no. 59	Date: 09-02-2023	
Description Watercours southern bo	e close to	



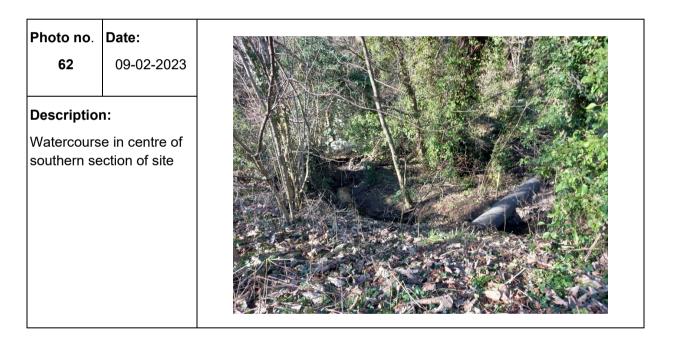


61 09-02-2023

Description:

Ramp into reservoir at northern end







63 09-02-2023

Description:

Fields in south east corner of site, with large areas of overgrown vegetation around boundaries







65 09-02-2023

Description:

Area of fuel/chemical storage to east of main operational facilities



Photo no. 66	Date: 09-02-2023	
Description Storage of o fuel to east operational	chemicals and of main	





67 09-02-2023

Description:

Cemfuel loading area



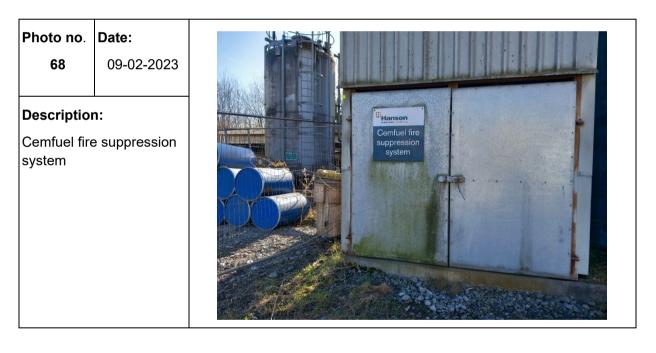


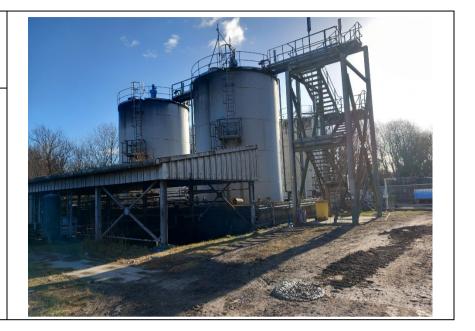


Photo no. Date:

69 09-02-2023

Description:

Four tanks: two for cemfuel, one for diesel and one for ammonia



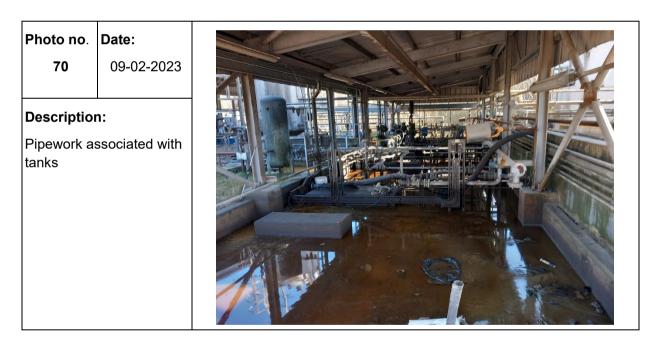




Photo no. Date:

71 09-02-2023

Description:

Liquid nitrogen storage tank







Photo no. 73	Date: 09-02-2023	
Description:		
Solid waste storage in skips to south of main operational buildings		



APPENDIX H SUMMARY OF CONSULTEE RESPONSES

Castle Cement Limited Carbon Capture and Storage Project – Padeswood, North Wales Draft Volume 4, Technical Appendix 12.1 663575-00



24 January 2023 Our reference: 663575 Fourways House 57 Hilton Street Manchester M1 2EJ UK

Telephone: +44 (0)161 236 2757 www.rskgroup.com

Summary of consultee responses to the EIA Scoping Report for the Carbon and Capture Storage Project – Padeswood, North Wales

Natural Resources Wales

Natural Resources Wales (NRW) commented on factors proposed to be scoped in (Biodiversity and Air Quality) and factors proposed to be scoped out (Land & Soils, Water, Major Accidents and Disasters and Material Assets) from the EIA.

Aside from comment on EIA factors, NRW also commented on what should be included in the (ES) regarding 'description of the project'. This includes specific points including but not limited to covering construction, operation, and decommissioning phases as appropriate and including detailed, scaled maps and drawings.

Biodiversity

NRW advised that evaluation of the impacts of the scheme should include direct and indirect; cumulative; short, medium and long term; permanent and temporary; positive and negative; construction, operation and decommissioning/post operational phases and impacts on long-term site security of the nature conservation resource.

Phase 1 surveys are advised to be undertaken during summer for best results. Surveys should be undertaken for all species scoped in. Due to habitat loss, the ES should identify:

- i. identify the nature and extent of terrestrial habitats affected by the proposed development;
- ii. identify their value for GCN; and
- iii. provide this information in the context of:
 - a. core habitat surrounding GCN ponds (i.e., within 50m of GCN ponds)
 - b. intermediate habitat surrounding GCN ponds (i.e., 50-250m of GCN ponds) and
 - c. distant habitat surrounding GCN ponds (i.e., 250-500m)

NRW advises Great Crested Newts to be scoped in during the operational phase of the proposed development. NRW advise on retaining dark corridors across the site. NRW advise that climbed tree inspections are carried out on all trees with moderate or high potential to support roosting bats that need to be felled or pruned to accommodate the proposals. The application should further explain why barn owl and peregrine have been scoped out during the operational phase, including greater detail/commitment for enhancements for all breeding birds.

More detailed information about the impact on protected species and habitats should be provided in the ES, including conservation status of species where applicable. NRW also advises that the ES should set out how the long-term site security of any mitigation or compensation would be assured, including management and monitoring information and long term financial and management responsibility. Where the potential for significant impacts on protected species is identified, NRW advocate that a Conservation Plan is prepared for the relevant species and included as an Annex to the ES.

Where a European Protected Species is identified and the development proposal would contravene the legal protection they are afforded, a licence should be sought from NRW.



RSK Environment Ltd Registered office 65 Sussex Street • Glasgow • Scotland • G41 1DX • UK Registered in Scotland No. 115530 www.rskgroup.com



NRW also advises on consulting local's authority ecologist regarding local biodiversity issues and to contact any other relevant people/organisations for biological information/records relevant to the site and it's surrounds.

The application should also demonstrate how it can deliver biodiversity enhancements and thus contribute to promoting ecological resilience.

Air Quality

NRW agrees with the suggested scope. The requirement for further monitoring should be confirmed at the detailed assessment stage.

The scoping report does not consider the designated AQMA for Chester City Centre which is approximately 10km from the proposed development. The impacts at this location due to point source emissions should be considered.

Land & Soils

The scoping report does not consider the active landfill in the south and historic landfill north of the site that appear in NRW's records.

Trial pit and borehole locations might be relevant to the wet sand mill, limestone store and CHP post combustion and carbon capture and compression plant development and should be investigated further.

NRW does not agree with scoping out land and soils from the ES and advises a bespoke Site Investigation and associated risk assessment through the development of a conceptual site model.

Water

NRW agrees with proposals stated in EIA Scoping Report, but further advised that the Lead Local Flood Authority is consulted to provide advice on surface source of flood risk, and whether they agree that flood risk should be scoped out of the ES.

Implementation of CEMP is acknowledged by NRW to address potential water quality impacts and agrees with scoping this topic out. Additionally, potable water can also be scoped out from the ES, however it is advised to liaise with Welsh Water.

NRW advised to consider if the submitted proposals would increase the volume of foul discharge from the site in planning terms, in particular phosphorus discharge.

Major Accidents and Disasters

NRW does not consider scoping out Major Accidents and Disasters appropriate at this stage and advised that the risk assessment includes the impact of major losses of containment of carbon dioxide and how significant adverse environmental effects would be prevented or mitigated, including details of emergency preparedness.

Material Assets

NRW agrees with implementing a Site Waste Management Plan and with scoping this factor out.

Other Permits, Consents and Licenses

Variation application to the existing environmental permit will be required depending on the final scope of proposed changes. The development will also need to be mindful of the requirements of the Planning (Hazardous Substances) (Wales) Regulations 2015 and Control of Major Accident Hazards Regulations



2015 if qualifying quantities of dangerous substances are introduced to the site in addition to those already present.

Flintshire County Council

Flintshire County Council broadly agrees with the scope.

Landscape & Visual

Two additional viewpoints are advised to be considered under the assessment. An additional viewpoint should included at the layby on Padeswood Lake Road opposite The Old Barn. An additional, more distant viewpoint from the Mold bypass (SJ233626) should also be considered because of the framed views of the site that the highway's alignment and roadside trees provide.

The nearest residential dwelling is at Dyke Farm, approximately 180m to the southwest of the site boundary and therefore a Residential Visual Amenity Assessment should be undertaken.

There is no mention of a BS5837:2012 arboricultural survey in the Biodiversity or Landscape and Visual sections of the Scoping Opinion Report. It is evident from early-stage plans that the proposal will require the removal of trees or could affect them. A BS5837:2012 should be provided unless otherwise justified.

Protected Species

The County Ecologist would like to ensure that areas for mitigation and biodiversity enhancement need to include long-term management security and protection from further development.

<u>CADW</u>

CADW advise to consult the Flintshire Conservation Officer as an additional consultee, to broaden the search area for designated sites to 5km and that walkover surveys should cover the whole application area to identify unrecorded archaeological sites. In this regard factors scoped in/out should be revised after changes in study areas and surveys. Proposed additional mitigation is generic and should be revised once historic assets are identified.

Welsh Water

Welsh Water is aware that the proposed development falls within the DCWW Drinking Water Catchment and the proposed development therefore has high risk to impact water quality. WW therefore requested further information including:

- Review CEMP including the Pollution Prevention Guidance on surface run off on site and drainage management.
- Details of machinery refuelling, showing location relative to the safe storage and chemical area.
- Confirmation that any contamination to surface waters will be reported to Natural Resources Wales immediately.
- Review of the Flood Consequences Assessment and Emergency Spillage Action Plan.
- Details of wash down areas and buffer zones for vehicles (increased from 10 m to 50 m to reduce the risk of contamination).

The Coal Authority

The Coal Authority confirms that the site falls within the Development High Risk Area. The Coal Authority identified presence of five on-site mine entries, recorded shallow coal workings and is of a opinion that



building over the top of in close proximity to, mine entries should be avoided wherever possible. The Coal Authority agreed with a desk based Preliminary Risk Assessment in support of the DNS application.

Risk of mine gas present was identified on the proposed site, however the Coal Authority only gives comments if gas emissions have been recorded on the site. Therefore, it is advised to consult with LPA.

It is also advised that we seek advice from own technically competent person to ensure the right assessment will be undertaken for potential interaction between hydrology, and proposed drainage systems (SUDs) and drainage ground suitability, as mine workings might have been present beneath the site.

Welsh Government – Transport

There is a request for including the following in the Traffic and Transport Assessment:

- The study area should include the A55 and A494 junctions around Ewloe
- The traffic impact should be presented both as Annual Average Daily Traffic (AADT) and AM/PM Peak Flows.
- The TA should consider whether capacity assessments of junctions on the Trunk Road Network are required, not just highway links

Description of proposed Abnormal Indivisible Loads (AIL) including routing to avoid weak structures and pinch points on the network where necessary (unless mitigation is proposed).

The Welsh Government (Transport) would also like information on the pipeline (start and end, construction methods and crossings)



APPENDIX I TECHNICAL BACKGROUND

Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

NRW generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source;
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants; and
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences.



Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- Highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution;
- Likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;
- Low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term; and
- Unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- Severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
- Medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem;
- Mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment; and
- Minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.



		Consequences				
		Severe	Medium	Mild	Minor	
Probability	Highly likely	Very high	High	Moderate	Moderate/low	
	Likely	High	Moderate	Moderate/low	Low	
	Low likelihood	Moderate	Moderate/low	Low	Very low	
	Unlikely	Moderate/low	Low	Very low	Very low	

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- Very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required;
- High: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term;
- Moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability.
 Some remedial works may be required in the longer term;
- Low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild; and
- Very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise:

- Reuse on the site of origin (with or without treatment);
- Direct transfer of clean and natural soils between sites;
- Use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).



The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- The aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste;
- The material is certain to be used;
- The material is suitable for use both chemically and geotechnically; and
- Only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the NRW. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.