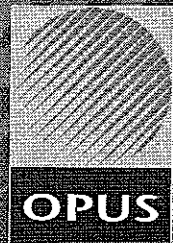


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PHASE 1 (DESK STUDY) INVESTIGATION
REPORT

For
CALDECOTTE CONSULTANTS
On a Site at

Land to the rear of
the former La Taverna Restaurant,
23 OLD ROW,
CLITHEROE



03 May 2012

Job No: J - D0807

Report Ref: J-D0807_R1_NLH

**Phase 1 (Desk Study) Investigation
Report
For
Caldecotte Consultants
On a Site at
Land to the rear of
the former La Taverna Restaurant,
23 Old Row,
Clitheroe**

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Date Issued: 03.05.12
Reference: J-D0807_R1_NLH
Status: FINAL

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EXECUTIVE SUMMARY

Location	The site is approximately 4.19ha in area and is centred on national grid reference 373990, 438390. The current access to the site is gained off Old Row/Whalley Road (Post code BB7 9AZ) to the north west of the site.
History	Site: Public House present from earliest maps in 1887 until sometime between 2000 and 2006. Remainder of site undeveloped throughout the history examined Environs: Generally surrounded by fields and some residential housing, but more recently new commercial units to the south and a fuel filling station to the south east.
Geology & Hydrogeology	Solid – Clitheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated). Drift – Devensian Till. Faults – No faults are shown to lie beneath or close to the site. Groundwater – Superficial deposits - Unproductive strata. - Bedrock – Secondary (A) Aquifer (Formerly Minor Aquifer)
Environmental Considerations	Landfills – There is one historic landfill recorded within 250m of the site. Radon – No radon protective measures required.
Mineral Extraction	There are no known BGS mineral sites within 500m. The site is not within a coal mining area.
Anticipated Ground Conditions	Stiff consistency clays associated with the Glacial Till underlain by limestone or mudstone at unknown depth.
Contamination Summary:	Made Ground and topsoil at the site may be affected by heavy metal, polyaromatic hydrocarbon (PAH), TPH and possibly asbestos contamination. Natural soils near the fuel filling station may be affected by TPH. Ground gases may present a potential risk to the proposed development as a result of off site sources.
Soakaways / Drainage	Natural ground conditions are anticipated to be predominantly low permeability. Soakaways are considered unlikely to be viable.
Potential Remedial Measures	Provide clean cover to made ground within garden areas in previously developed area - thickness will depend on nature and degree of contamination present. Provide gas protection measures to proposed dwellings.
Further Works	Phase 2 investigation Regulatory Liaison Intrusive investigation including a Gas Risk Assessment Flood Risk Assessment

1.0 INTRODUCTION

- 1.1 This report describes a desk study carried out for Caldecotte Consultants on land to the rear of the former La Taverna Restaurant, Clitheroe, Lancashire.
- 1.2 For the purpose of this assessment the proposed development is assumed to be for residential properties with gardens. In the absence of specific information to the contrary, it has been assumed that site levels will not change significantly.
- 1.3 The objectives of this report were to obtain information from a variety of sources in relation to the site in order to assess land quality issues pertinent to the proposed development.
- 1.4 This report has been produced on behalf of the Client, Caldecotte Consultants, and no responsibility is accepted to any Third Party for all or any part. This report should not be relied upon or transferred to any other parties without the express written authorisation of Opus. If any unauthorised Third Party comes into possession of this report, they rely on it at their own risk and the authors owe them no duty of care or skill.
- 1.5 Findings and opinions conveyed via the desk study within this report are based on information obtained from a variety of sources as detailed within this report, which Opus believes are reliable. Nevertheless, Opus cannot and does not guarantee the authenticity or reliability of the information it has relied upon.
- 1.6 The site plans enclosed in this report should not be scaled from.
- 1.7 All comments on ground conditions, ground gases and potential contaminants are from desk study information only and should be verified through an intrusive investigation along with suitable laboratory testing and interpretation.

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2.0 THE SITE

2.1 Location & Access

- 2.1.1 The site is located to the west of Whalley Road, Barrow, Clitheroe. The site is centred on National Grid Reference 373990, 438390 as shown on drawing no. DO J-D0807-401 R0, Site Location Plan.
- 2.1.2 Access to the site is gained via the former La Taverna Restaurant, off Old Row/ Whalley Road in the west of the site.

2.2 Site Description

- 2.2.1 A site walkover was carried out on 30 April 2012 and the following was observed.
- 2.2.2 The site is approximately 4.19 hectares in area and approximately rectangular in shape.
- 2.2.3 The northern extent of the site is formed by terraced properties of 'Old Row', the properties are traditional two storey residential properties with pitched roofs. The properties front onto Whalley Road, and have small enclosed backyard areas. The former "La Taverna Restaurant" (a derelict Italian restaurant), is the end property on the south western end of the terraces. Most of the properties have single storey outbuildings within their back yards.
- 2.2.4 Evidence of a cellar associated with the former "La Taverna" was noted on the southern edge, in the access to the site, the extent of which is not currently known.
- 2.2.5 Access to the site is gained in the west along the south western side of "La Taverna", the access is roughly asphalt surfaced, leading to a larger roughly asphalt surfaced area, this appears to be currently utilised by residents as an informal car parking area.
- 2.2.6 To the east of the informal car park is the access to the field, and the rest of the site. Access to the fields could not be gained during site walkover. However, it was noted that the fields visible from the car park are grassed and currently utilised for grazing sheep. Various semi mature and mature trees and hedges are present along the field boundaries.
- 2.2.3 The southern and northern site boundaries comprise residential properties, Washbrook Close to the south and the remainder of terraced properties fronting onto Whalley Road to the north. Open land/fields bound the site to the north and south. The A59 runs approximately north south along the eastern boundary of the site, a petrol station and fast food restaurant are present off the A59 adjacent to the south eastern boundary of the site.
- 2.2.4 The site is located within the small residential village of Barrow.
- 2.2.5 The main features of the site and its environs are shown on the enclosed Opus Drawing No. DO J-D0807-402 R0.

3.0 DESK STUDY

3.1 Sources of Information

3.1.1 The following sources of information have been consulted as part of the desk study for the site;

- (a) Envirocheck Database Report
- (b) The Coal Authority and Law Society Gazetteer of England and Wales 6th Ed.
- (c) Environment Agency Website
- (d) BRE Report 211, Radon Protection Measures for Buildings
- (e) Historical Ordnance Survey Maps via Envirocheck
- (f) BGS Geological Mapping via Envirocheck

3.2 Site History

3.2.1 The history of the site is recorded over selected periods by the maps inspected, copies of which are supplied in Appendix 'A'. The account presented in this report is restricted by specific time periods represented by these maps only. The historical maps for the area have been reviewed and the pertinent points are summarised below. It is not the intention to give a comprehensive history of the site and its surroundings.

Period	On Site	Off Site
1848	The site is labelled as Barrow House in the western edge.	The road running approximately southwest-northeast along the western boundary of the site is shown as Clitheroe Street. The "Barrow Bridge Print Works" is shown approximately 200m south west of the site. The Blackburn Railway is present 750m west of the site. The surrounding land is mainly undeveloped fields.
1893	The north western extent of the site is shown as the southern end of a row terraced properties fronting onto the Clitheroe Street. The Property on site is labelled as Public House – "The Dog and Partridge Hotel".	Reservoirs are shown at 50m south east and 100m-150m south of the site. The "Barrow Bridge Print Works" shown approximately 200m south west of the site is now labelled 'Whalley Abbey Print Works', 'tanks' and 'gasometers' are present in the north western extent of the works. The surrounding land is mainly undeveloped fields.

Period	On Site	Off Site
1967	Unchanged.	The 'Whalley Abbey Print Works' shown approximately 200m south west of the site is now labelled 'Whalley Abbey Engraving Works'. The surrounding land is mainly undeveloped fields, residential development is progressing to the south and southwest of the site. The road to the west of the site has been re-named "Whalley Road".
1975	The A59 is shown running broadly north south along the south-eastern boundary of the site. The site remains unchanged.	Residential development is progressing to the south and southwest of the site.
1983	Unchanged.	The 'Whalley Abbey Engraving Works' shown approximately 200m south west of the site is now longer shown. Residential development is progressing to the south and southwest of the site.
2006	Unchanged.	The smaller western most reservoir to the south of the site is no longer shown. A square structure of unknown use is indicated in its place.

3.3. Geology, Hydrogeology and Hydrology

- 3.3.1 According to the inspected published geological information the site is shown to be underlain by superficial deposits Devensian Glacial Till Deposits. These deposits typically comprise consolidated clay with gravel and occasional layers of sand.
- 3.3.2 The underlying bedrock strata is mapped as the Clitheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated).
- 3.3.3 No surface faults are shown to affect the site, or immediate surrounding areas.
- 3.3.4 According to Environment Agency (EA) the superficial strata beneath the site are designated as unproductive strata. These are deposits with low permeability that have negligible significance for water supply or river base flow.
- 3.3.5 The bedrock is designated as a Secondary (A) Aquifer (formerly minor aquifer). These deposits are 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.
- 3.3.6 The nearest surface water feature as indicated by the Envirocheck report is an unnamed stream shown to be 3m off the western site boundary, reservoirs are present to the south and south east of the site within 200m. The 2011 Ordnance Survey information indicates a small un-named watercourse along part of the southern site boundary.

3.4 Mineral Extraction

- 3.4.1 The Coal Authority and Law Society Gazetteer of England and Wales does not list Clitheroe as an area where a coal mining report is required.

3.5 Environmental Considerations

- 3.5.1 Specific details relating to the environmental setting of the site are presented within the environmental database report included as Appendix B. The salient issues which relate to the site are summarised as follows:

- There have been three pollution incidents to controlled waters within 100m of the site, the incidents occurred in 1992/1993 and range from Category 2 significant incident to Category 3 minor incident.
- There are three water abstractions within 250m of the site. These abstractions are located 59m east and 217m south east of the site and relate to abstraction of surface water and groundwater for use at fisheries. All licences appear to have lapsed.
- There are two discharge consents located within 250m of the site. These are both located 144m south east of the site and registered to Whalley Trout Fishery, relating to trade discharge/process water discharged to freshwater stream/river.
- There are 3 contemporary trade directory entries within 500m of the site. These relate to:
 - Damp and Dry Rot Control 88m west and inactive.
 - Pet Foods and Animal Feeds 172m north and active.
 - Freight Forwarders 203m south and active.
- There is 1 fuel station entry within 500m of the site at Co-op Clitheroe 18m southeast.
- There is one known historical landfill site recorded within 1000m of the site. This is located at 166m south of the site and relates to inert waste. Further information has not been supplied. This location coincides with the location of the smaller, western most reservoir shown on historical maps as having been redeveloped at some time between 1975 and 1992.

- 3.5.2 Environment Agency online mapping shows the site to be free of risk of flooding from rivers without defences.

- 3.5.3 In addition, site specific information has been requested from Ribble Valley Borough Council. At the time of issuing this report their response had not been received. This will be forwarded under separate cover once received. Any information presented by the council which changes any of the conclusions made herein will be highlighted at that time.

3.6 Radon

- 3.6.1 The Building Research Establishment have produced their revised document BR211 ("Radon guidance on protective measures for new buildings"). This determines whether radon protective measures should be afforded to new dwellings.
- 3.6.2 The Envirocheck report states the site is in an area where **no** protective measures are necessary in the construction of new buildings and a site specific geological assessment is not required to confirm this.

3.7 Asbestos

- 3.7.1 The former "La Taverna" present in the west of the site is proposed to be demolished as part of the new development, it should be considered due to the age of the property asbestos containing materials (ACMs) may be present within its construction. Depending on the level of control during demolition, asbestos fibres may have contaminated the surface strata and any demolition rubble retained on site.
- 3.7.2 The site was originally developed prior to the introduction (and implementation) of the Control of Pollution act 1974. This legislation introduced a requirement for land to be licensed for the disposal of waste, on land. Consequently, the potential exists for soil imported to have originated from a contaminated source, which may include asbestos.

4.0 PRELIMINARY CONCEPTUAL SITE MODEL

4.1 Potential Sources of Contamination

4.1.1 The following potential **on site** sources of ground contamination have been identified:

- Made Ground present at the site may include heavy metals, sulphates, polycyclic aromatic hydrocarbons (PAH), associated development of the site.
- Asbestos building products associated with the structure and any made ground present.
- Pesticides (OCPs and OPPs) due to historical farming activities on open fields in the remainder of the site.

4.1.2 The following potential **off site** sources of ground contamination have been identified

- Fuel filling station to the south east of the site, Total Petroleum Hydrocarbons.
- Historic landfill site to the south.

4.2 Receptors of Contamination and Migration Pathways

4.2.1 Receptors are defined as human or non-human organisms that have the potential to experience adverse effects from direct or indirect exposure to contaminated material.

4.2.2 Migration pathways are defined as the routes chemicals take from a source to an exposed organism or receptor. The exposure pathway can be direct (i.e. stays within the same exposure media) or indirect (transport from one medium to another takes place).

4.2.3 The following potential human health and environmental receptors have been identified:

- Future site occupants;
- Site construction and maintenance workers;
- Buried building materials; and
- Surface water course 3m from western site boundary.

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4.2.4 The following potential migration pathways have been identified:

- **Inhalation**
Breathing dust and vapours from contaminated soil in outdoor air. Vapours can also migrate into buildings resulting in inhalation by the occupants.
- **Ingestion**
Eating and swallowing of contaminated soil and/or groundwater either by deliberate consumption, indirectly by eating or smoking with dirty hands or by ingestion of fugitive dust.

- **Dermal Contact**
Direct contact with contaminated soil and groundwater, causing skin conditions such as dermatitis etc. Certain contaminants can be absorbed into the body through the skin or enter directly through open cuts or abrasions.
- **Migration of Contaminated Water**
Contaminated groundwater can migrate laterally or vertically dependent on permeability, preferential pathways, man-made voids etc.
- **Leaching**
Infiltration of water through soil can leach out soluble contaminants resulting in groundwater pollution.
- **Aggressive Attack**
Building materials can be damaged by direct contact with aggressive ground conditions, for example sulphate attack on concrete and hydrocarbon attack on plastics.
- **Uptake by Plants and Vegetables**
Some contaminants may be toxic to plants but not necessarily to human health at the same concentrations. In addition, plants may uptake contaminants through their roots, which in the case of homegrown vegetables may later be consumed by humans. Contaminated soil adhered to vegetables can also be potentially ingested if not properly washed before consumption. Plant growth can also be adversely affected by landfill gas.

4.3 Source-Pathway-Receptors Relationships

4.3.1 The following potential **Source-Pathway-Receptor** relationships have been identified for the site bearing in mind the development proposals;

Source	Pathway	Receptor
Contaminated soil	Ingestion Dermal contact Inhalation (outdoor air)	Construction workers Future occupants
Contaminated soil	Inhalation (indoor air)	Future occupants
Contaminated soil	Leaching and migration	Controlled waters
Contaminated soil & groundwater	Aggressive attack	Building materials
Contaminated soil	Root uptake to plants	Future occupants
Contaminated groundwater	Ingestion Dermal contact Inhalation (outdoor air)	Construction workers Future occupants
Contaminated groundwater	Inhalation (indoor air)	Future occupants
Contaminated groundwater	Exposure during earthworks	Construction workers
Contaminated groundwater	Migration to surface water courses	Controlled waters
Historic off site landfill	Migration of ground gases	Future occupants
Off site Fuel filling station	Migration of ground contamination (including vapours)	Future occupants

4.3.2 A diagrammatic representation of the preliminary conceptual model for the site is presented on Drawing DO J-D0807-403 R0.

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5.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

5.1 Ground Conditions

- 5.1.1 The following assessment of the ground conditions expected on site is based solely on the desk study information. It is therefore subject to confirmation or otherwise through appropriate intrusive site investigation.
- 5.1.2 It is anticipated that natural ground will be present at or close to the surface over the majority of the site comprising Glacial Till deposits. Underlying these strata is likely to be the limestone and mudstone of the Clitheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated).
- 5.1.3 Deep pockets of made ground may be present in the area of the 'La Taverna' property, particularly if a cellar was previously present.

5.2 Foundation Design

- 5.2.1 The following assessment of likely foundation types is based solely on the desk study and is therefore subject to confirmation or otherwise through appropriate intrusive site investigation techniques. The assessment also assumes that ground levels will remain similar to those at present. If this is not the case then some amendments to the recommendation given may be required.
- 5.2.2 It is anticipated that traditional strip / trench fill foundations are unlikely to be suitable for the proposed development due to the glacial till anticipated beneath the site.
- 5.2.3 There is evidence on site that there is a cellar present beneath the previous public house building, although its depth and extent are currently unknown. This below ground structure will require fully breaking out and the resultant void backfilling in an engineered manner. Foundations designs will need to take its location into consideration.

5.3. Ground Floor Construction

- 5.3.1 It is anticipated that suspended ground floors will be required due to the anticipated volume change potential of the underlying glacial till, and within areas of deep (greater than 600mm) made ground.
- 5.3.2 Radon protective measures are not required on this site.
- 5.3.3 Suspended floor slabs with a ventilated sub-floor void may be required if hazardous ground gases associated with the off-site landfill and petrol filling station are shown to affect the site.

5.4 Road Pavement

- 5.4.1 A minimum CBR value of 1% on made ground and 1-2% for natural clay may be assumed, however this should be confirmed with in situ CBR testing which may allow a higher CBR value to be adopted

5.5 Surface Water Drainage

- 5.5.1 On the basis of the desk study, it is considered the natural cohesive ground conditions anticipated on site shall be unsuitable for soakaways as a method of surface water disposal, therefore an alternative method of surface water drainage should be sought.
- 5.5.2 It is recommended that a full drainage survey is commissioned for the site prior to demolition and site clearance to show any existing drainage connections which will aid in future site development design.

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6.0 PRELIMINARY ENVIRONMENTAL ASSESSMENT

6.1 Potential Contamination Sources and Environmental Sensitivity

- 6.1.1 The desk study indicates that the site comprised open land and a public house until the early 2000's from which point the public house is no longer shown on the historical mapping data examined.
- 6.1.2 Land immediately surrounding the site to the north and west generally comprises residential properties and associated road networks. Land to the east and south of the site typically comprises open land/fields.
- 6.1.3 The main potential on site source of contamination identified by the desk study is the presence of made ground associated with the residential development in the west may contain contaminants. Potential contaminants include heavy metals, PAHs and asbestos fibres. Asbestos containing building products may have also been used within the existing restaurant.
- 6.1.4 There is potential for pesticides (OCP and OPP) to have been historically used on the open land in the east of the site.
- 6.1.5 A fuel filling station is present immediately off site to the south east and ground contamination associated with this station may have migrated beneath the site.
- 6.1.6 The published information indicates the site to be underlain by unproductive superficial and secondary (a) aquifer bedrock strata. There are three water abstractions within 250m of the site. The nearest surface water feature is an unnamed stream 3m west of site, with reservoirs present from 100m to the south and an un-named watercourse is shown on the southern boundary.
- 6.1.7 There are numerous licensed surface water abstractions within 1km of the site for use in fisheries.
- 6.1.8 Given the aquifer status of the underlying geology and the proximity to environmental receptors such as the nearest open surface water course, the site is considered to be located in a low to moderate sensitivity environmental setting.
- 6.1.9 Consideration of any on site contamination will need to be made in the context of the proposed development. At this stage, it is understood that the site is to be redeveloped with residential properties in keeping with the neighbouring established development comprising traditional units with associated private gardens. As such an allowance should be made for providing adequate protection to end users of the development.
- 6.1.10 Intrusive investigation and analysis of samples of material recovered from the site will be required to assess the potential risks to end users.
- 6.1.11 There is a large proportion of the site which is not recorded to have had any previous development or use, where the natural soils may be suitable for re-use within the development.

6.2 Ground Gas

- 6.2.1 A historic landfill is known to be present 166m south of the site which is considered to present a potential source of hazardous ground gases which could affect the proposed development. The site was licensed to receive inert waste. Given the nature of the permitted waste, the distance to the landfill and the predominantly cohesive Glacial Till strata, it is considered that this presents a low to moderate risk to the development.
- 6.2.2 A ground gas monitoring programme is recommended to confirm the risk presented by ground gases to the proposed development.

6.3 Potential Remedial Measures

- 6.3.1 Based on the proposed development and the information obtained from the desk study, it is recommended that consideration be given to the potential remedial measures which may be required locally, when assessing abnormal development costs.
- 6.3.2 At this stage, a preliminary assessment of possible remedial requirements has been made based on our experience of similar sites.
- 6.3.3 Made ground found to be affected by concentrations of contaminants which may pose a potential risk to end users could either be removed from garden areas of the site, or covered with an appropriate cover system. The thickness of the cover system will depend on the concentrations present. If asbestos fibres or potentially combustible materials are present at least 1000mm of cover will be required for all areas of garden and open space. If such materials are not present, then it may be possible to reduce this to of the order of 600mm within private gardens. Within landscaped areas or small front gardens this could be reduced further, to at least 300mm. At this stage it is anticipated that this requirement will only affect the area of the site which has previously been developed.
- 6.3.4 The available information indicates that there may be materials, including topsoil, on site suitable for use in any required capping layer, where no previous use or development is recorded. Suitable testing should be carried out as part of the intrusive investigation to confirm the quality of materials present in the east of the site.
- 6.3.5 Gas protection measures may be required if ground gases are found to affect the site. Additionally, if hydrocarbon affected soils are identified associated with the off site fuel filling station, then hydrocarbon resistant membranes may also be required within the ground floor construction.

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7.0 FURTHER WORKS

7.1 Based on the information available to date, it is recommended that an intrusive ground investigation be carried out to address the following issues which may affect the proposed development:

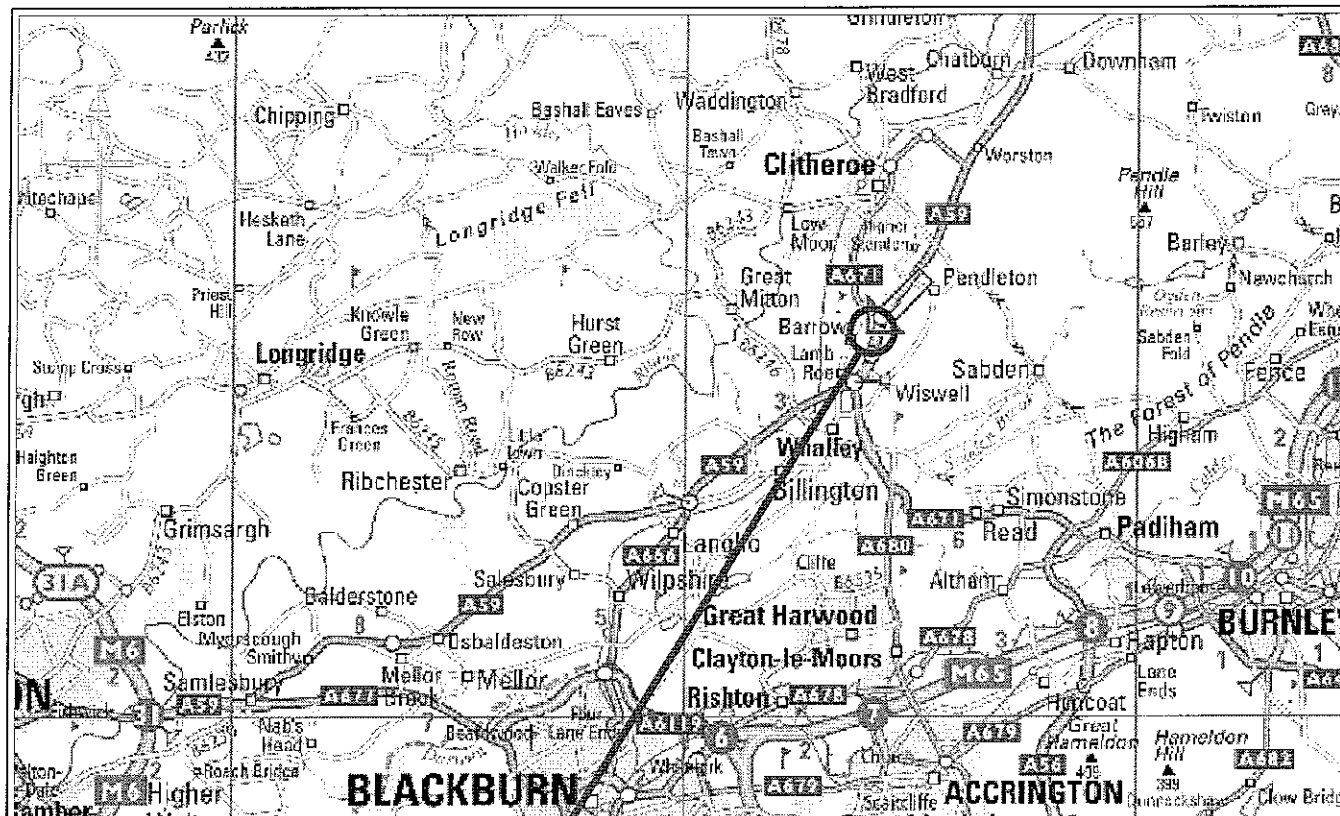
- Nature and extent of made ground associated with previous development of the site particularly where basements are present.
- Assessment of chemical characteristics of made ground and natural materials.
- Nature and strength of underlying natural strata (foundation design).
- Assessment of presence of hazardous ground gases.
- Quality of existing topsoil.
- Aggressive nature of ground to buried concrete.

7.2 It is considered that the intrusive investigation required to address the above and enable a full assessment of the issues associated with the development of this site should comprise the following works:

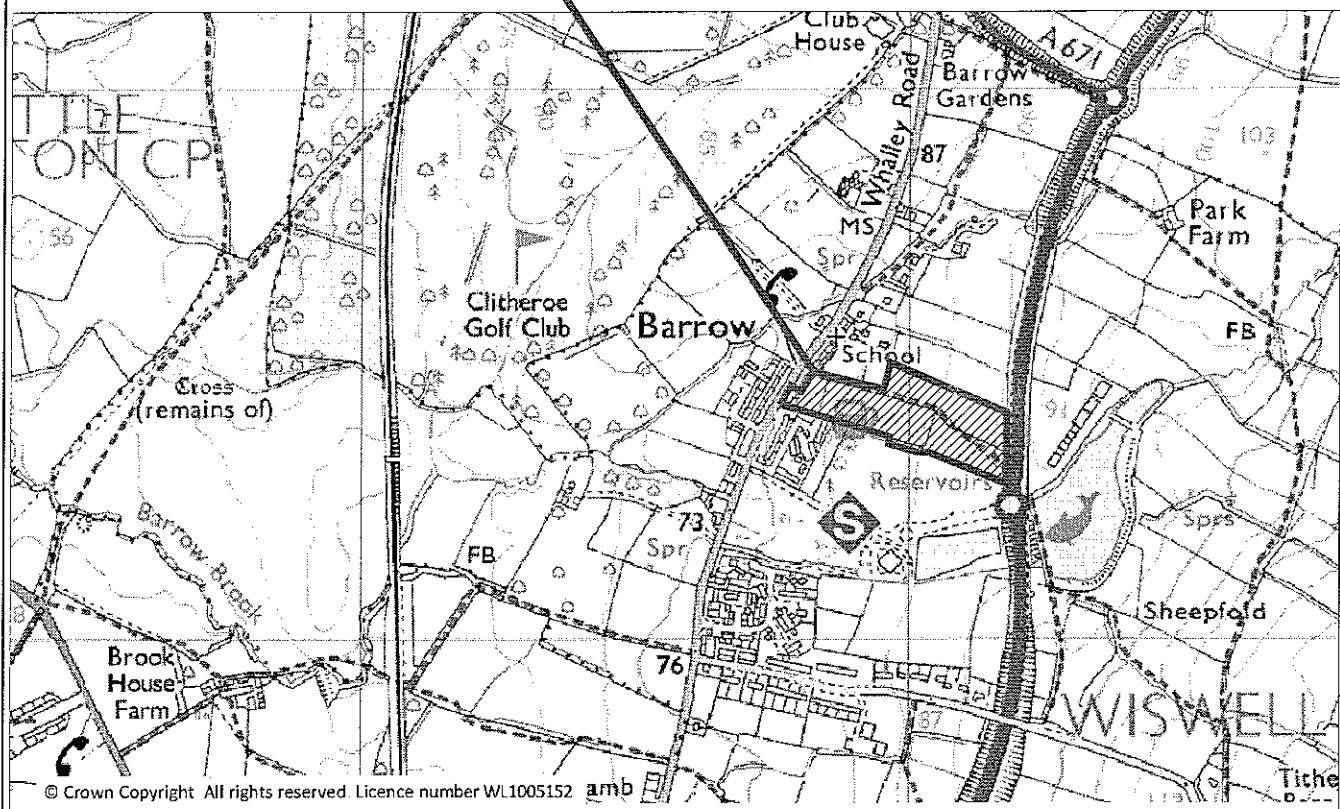
- Undertake trial pitting using mechanical excavator to inspect and sample near surface (<4m) soils and obtain limited geotechnical design parameters of natural soils;
- Undertake boreholes to inspect and sample ground conditions to depth, and to install ground gas monitoring wells.
- Undertake ground gas monitoring programme.
- Laboratory analysis of natural and made ground materials to determine contaminant levels and aggressive attack potential to buried building materials;
- Laboratory analysis to determine geotechnical properties;
- Undertake contamination risk assessment of any contamination / hazardous ground gas encountered to determine protective measures required for proposed development;
- Production of a Phase II Geo-Environmental Assessment Report presenting findings, assessments and conclusions; and
- Preparation of Remediation Strategy detailing the works required to protect end users and the environment (if required).

DRAWINGS

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Former La Taverna Resturant, Clitheroe
 Nearest Postcode: BB7 9BP
 OS X (Eastings): 373961m
 OS Y (Northings): 438387m



caldecotte cc

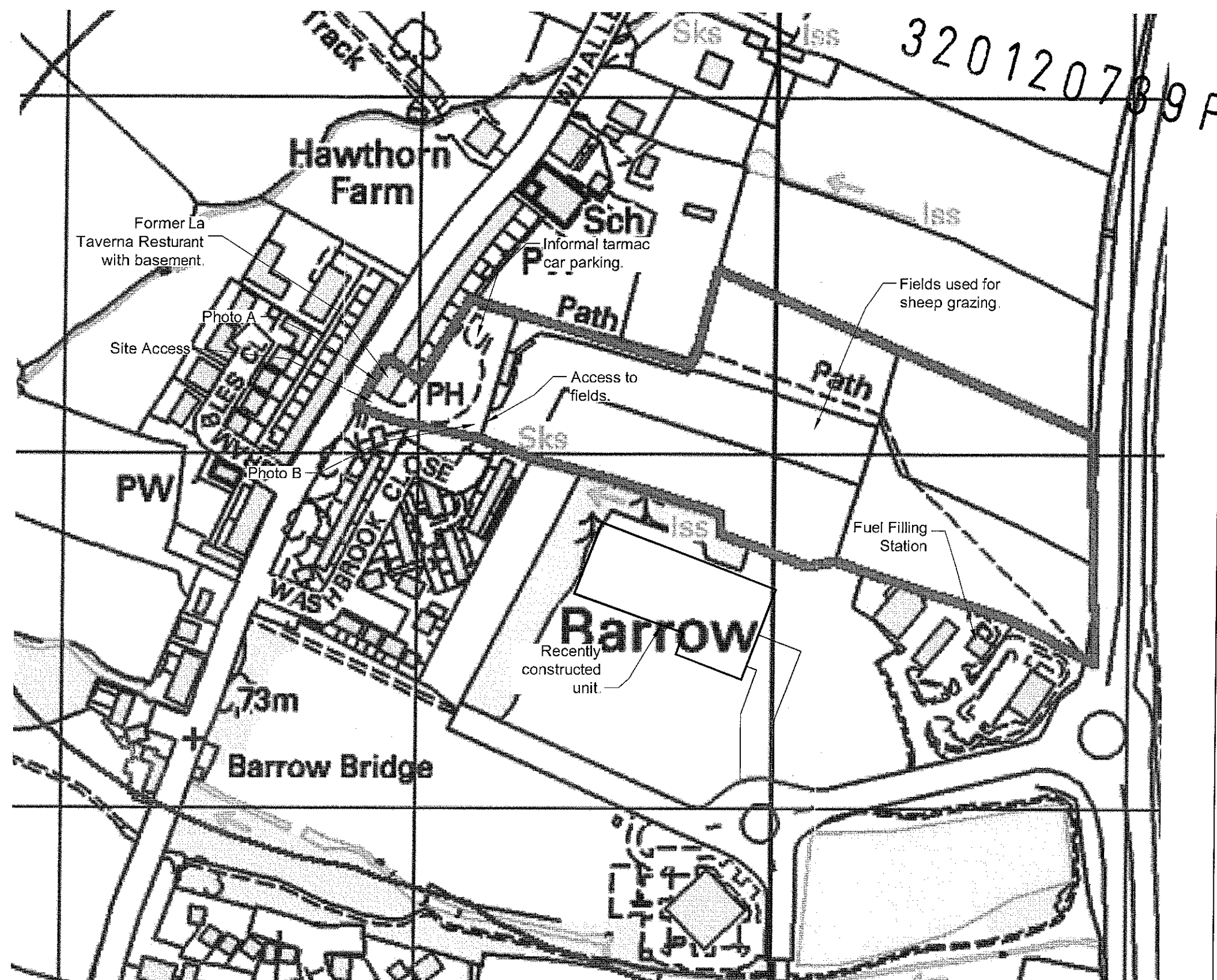
OPUS

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 +44 1302 322295

Project
 Land To The Rear Of The Former La Taverna Restaurant

Sheet
 Site Location Plan

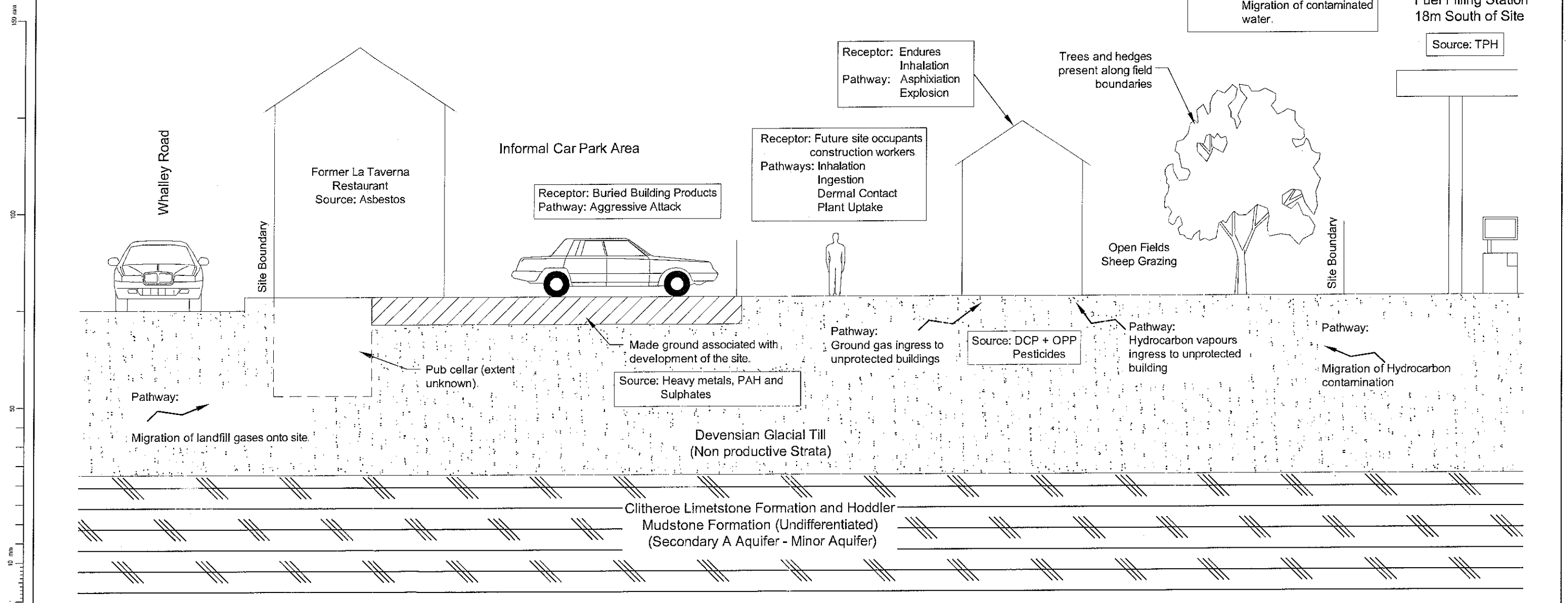
Revision		Amendment		Approved Date		Drawn		Designed		Approved		Revision Date		Site Location Plan	
R0	First Issue			SLR	02/05/12	MJ	DRS		SLR		03/05/12				
						Project No.		Scale		Drawing No.		Status		Sheet No.	
						J-D0807.00		NTS		DO J-D0807.00		FOR INFORMATION		401	
														R0	



FOR INFORMATION

Revision	Description	Approved	Revision Date	  Doncaster Office 1-2 Air House Sidings Court, Doncaster, DN4 5NL +44 1302 322255		Project		Land To The Rear Of The Former La Taverna Restaurant	
						Sheet		Site Features Plan	
						Drawing			
						Discipline			
						Revision			
						DWG		DRS	
						Project No.		402	
						Site No.		DO J-D0807.00	
						Scale		402	
						Notes		DO J-D0807.00	

- One historic landfill 166m South.
- Nearest surface water along southern site boundary
- 3 water abstractions within 250m of site for Aquaculture use.
- No radon protection required.
- No former industrial land use on site.



PRELIMINARY

caldecotte OPUS				Doncaster Office 1-2 Aire House Sidings Court, Doncaster, DN4 5HL +44 1302 302255		Project King Charles Clitheroe	
Project No. J-D0807.00				Scale N.T.S		Sheet Preliminary Conceptual Site Model	
Revision 1				Revision No. DO J-D0807.00		Sheet No. 402	
Revision 2				Revision No.		Sheet No. R0	

APPENDIX A

Historical Plans

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

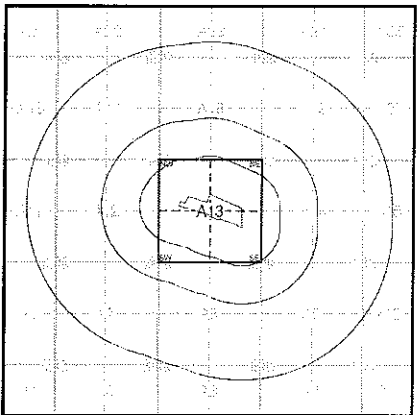


Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	2
Yorkshire	1:10,560	1848	3
Lancashire And Furness	1:10,560	1895	4
Yorkshire	1:10,560	1896	5
Yorkshire	1:10,560	1911	6
Lancashire And Furness	1:10,560	1914 - 1915	7
Lancashire And Furness	1:10,560	1932	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1970 - 1973	10
Ordnance Survey Plan	1:10,000	1975	11
10K Raster Mapping	1:10,000	2006	12
10K Raster Mapping	1:10,000	2011	13

320120739P

Historical Map - Slice A



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

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OPUS

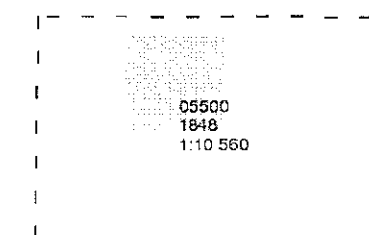
Lancashire And Furness

Published 1848

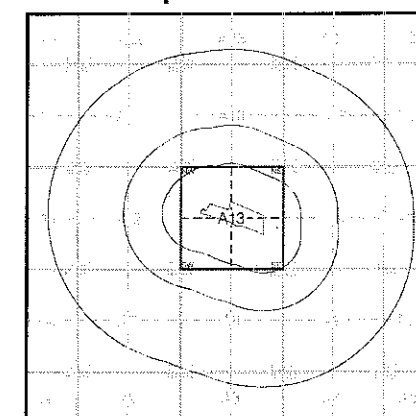
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

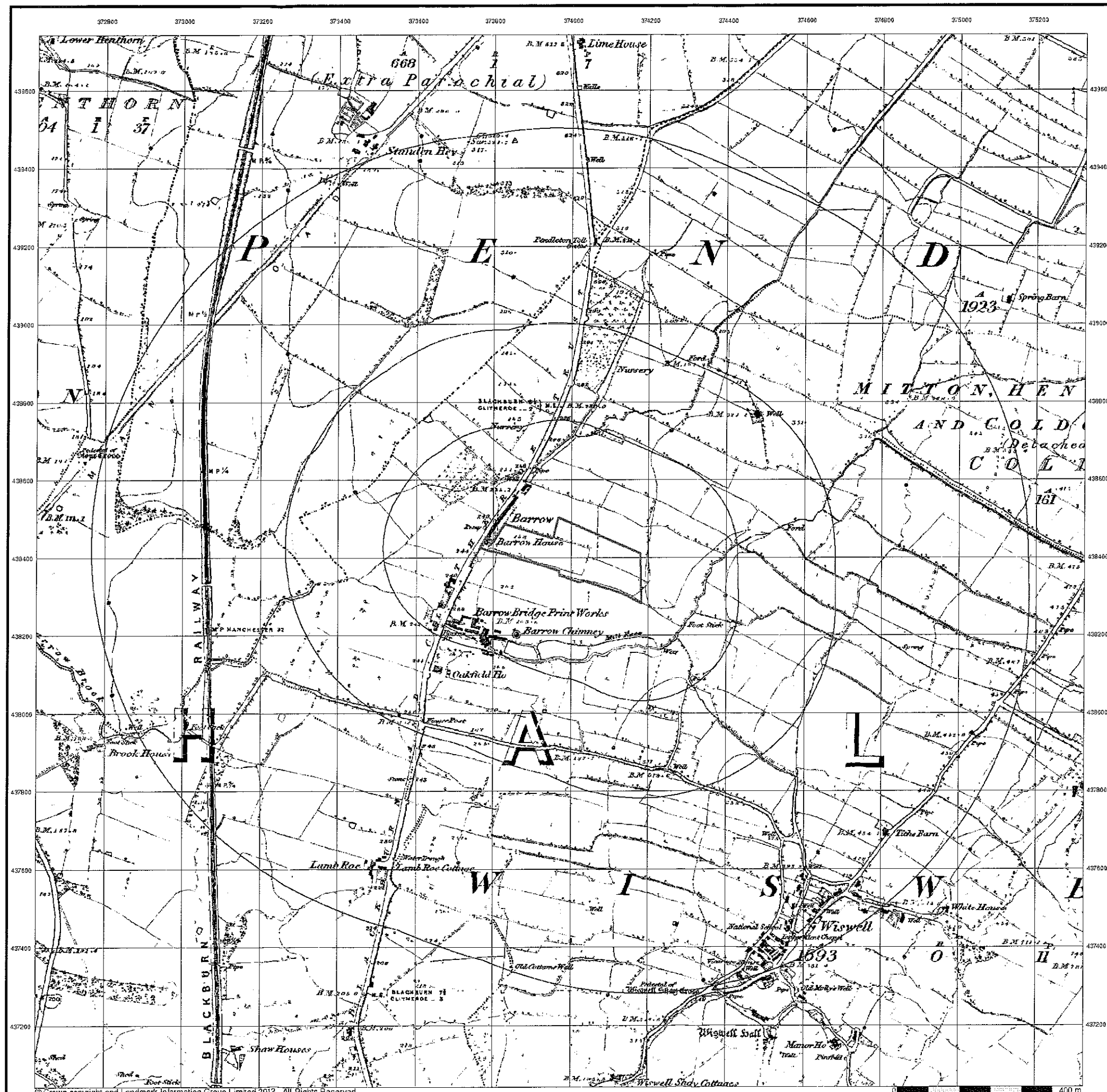
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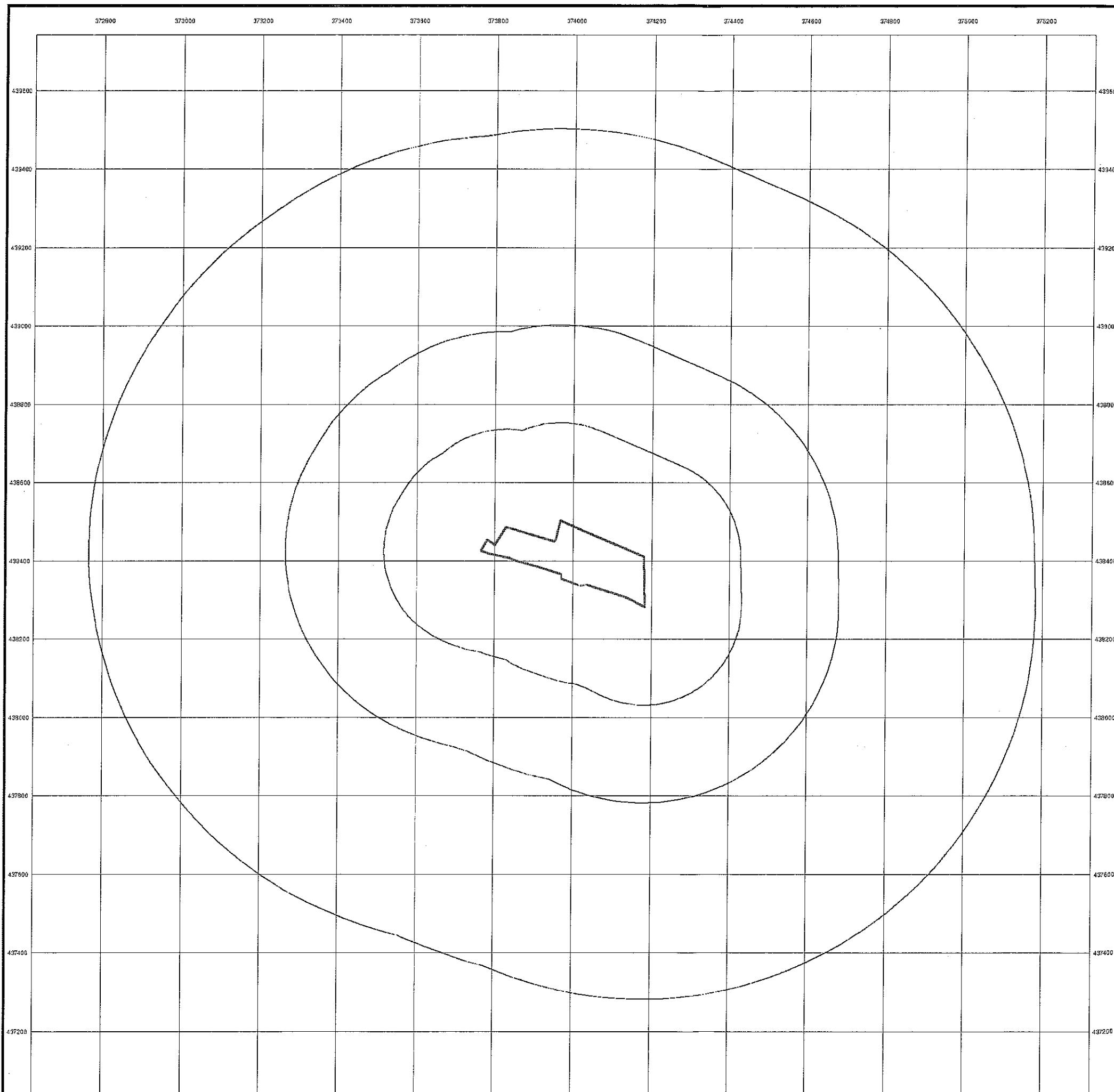
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Yorkshire

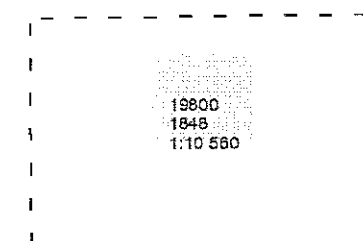
Published 1848

Source map scale - 1:10,560

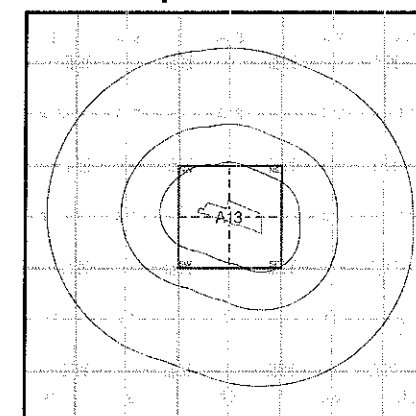
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320120739P

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

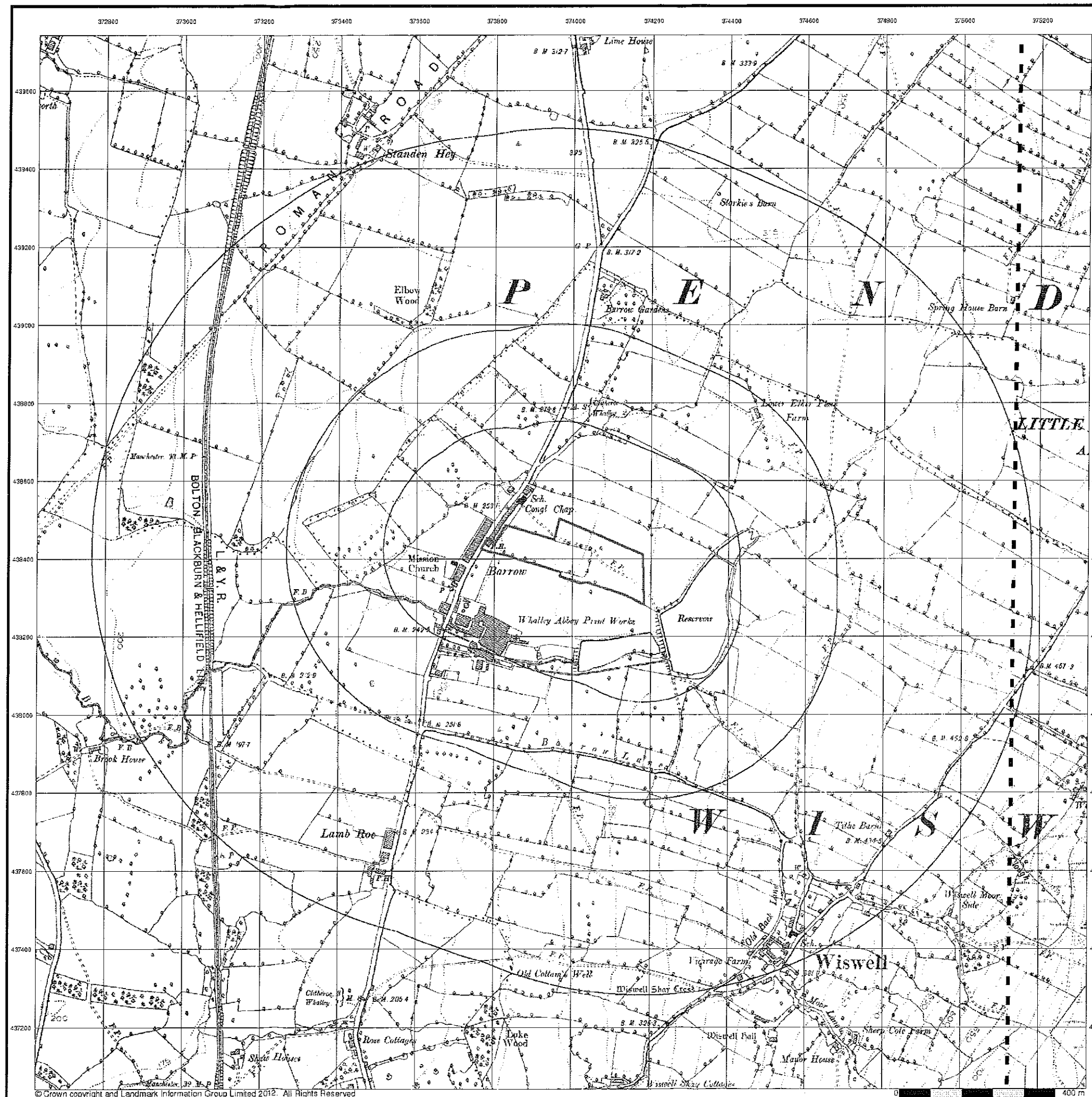
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Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

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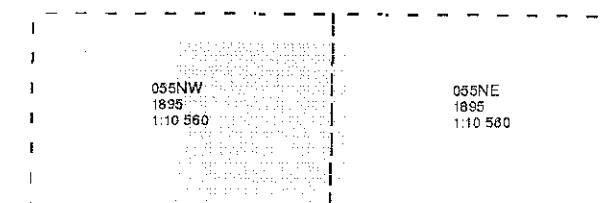
Lancashire And Furness

Published 1895

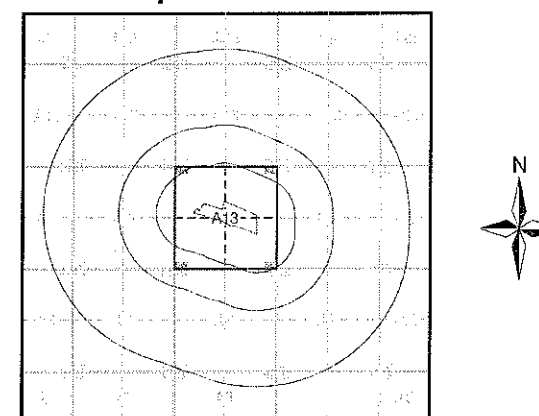
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

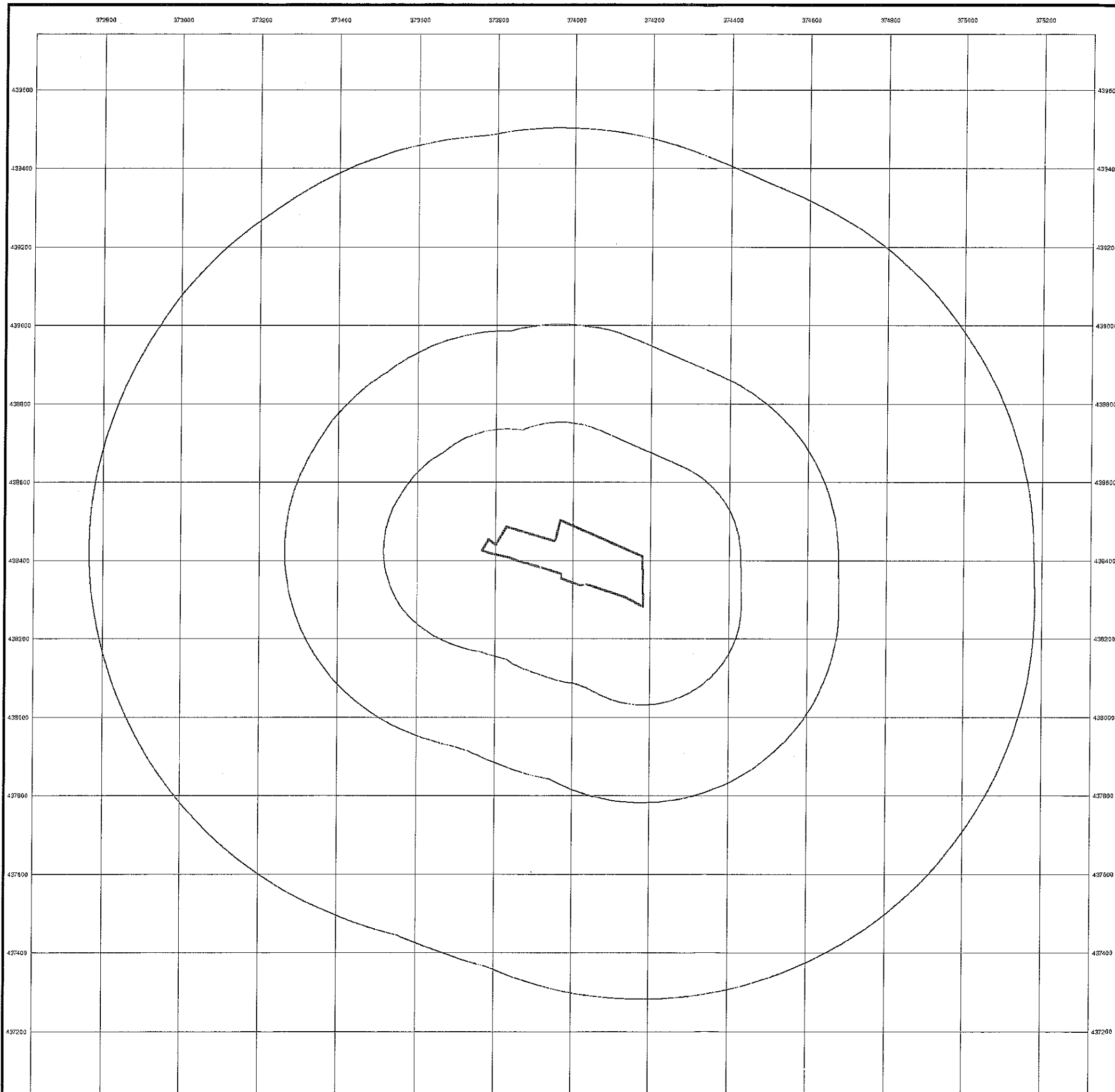
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 Slice: A
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Yorkshire

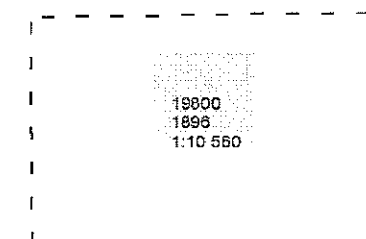
Published 1896

Source map scale - 1:10,560

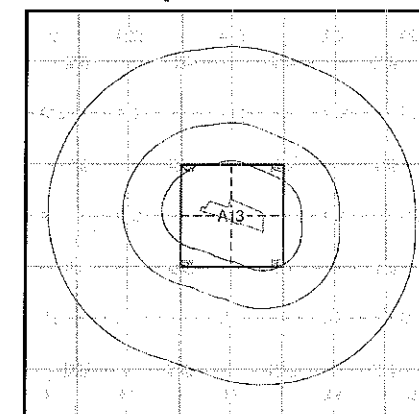
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320120739P

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

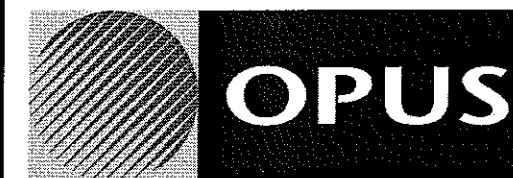
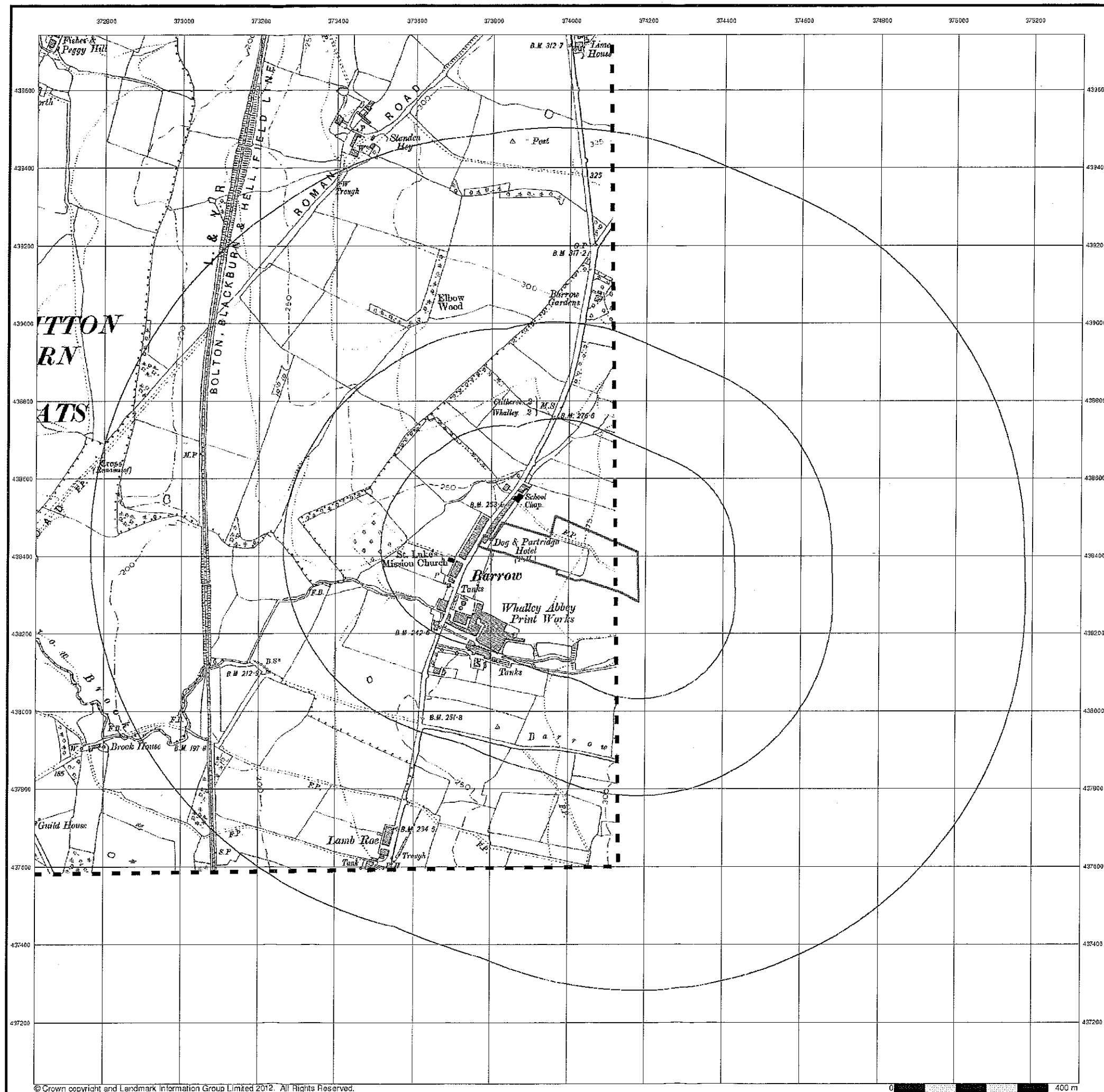
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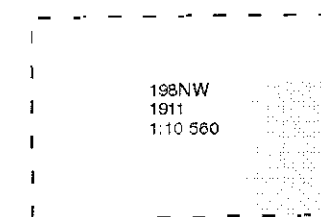
Yorkshire

Published 1911

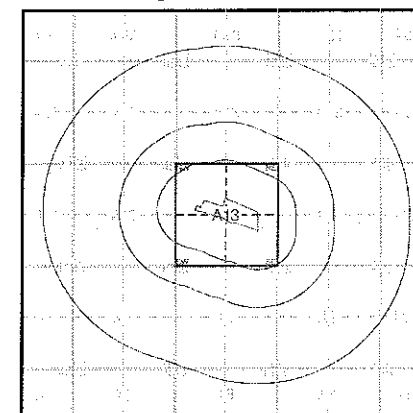
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

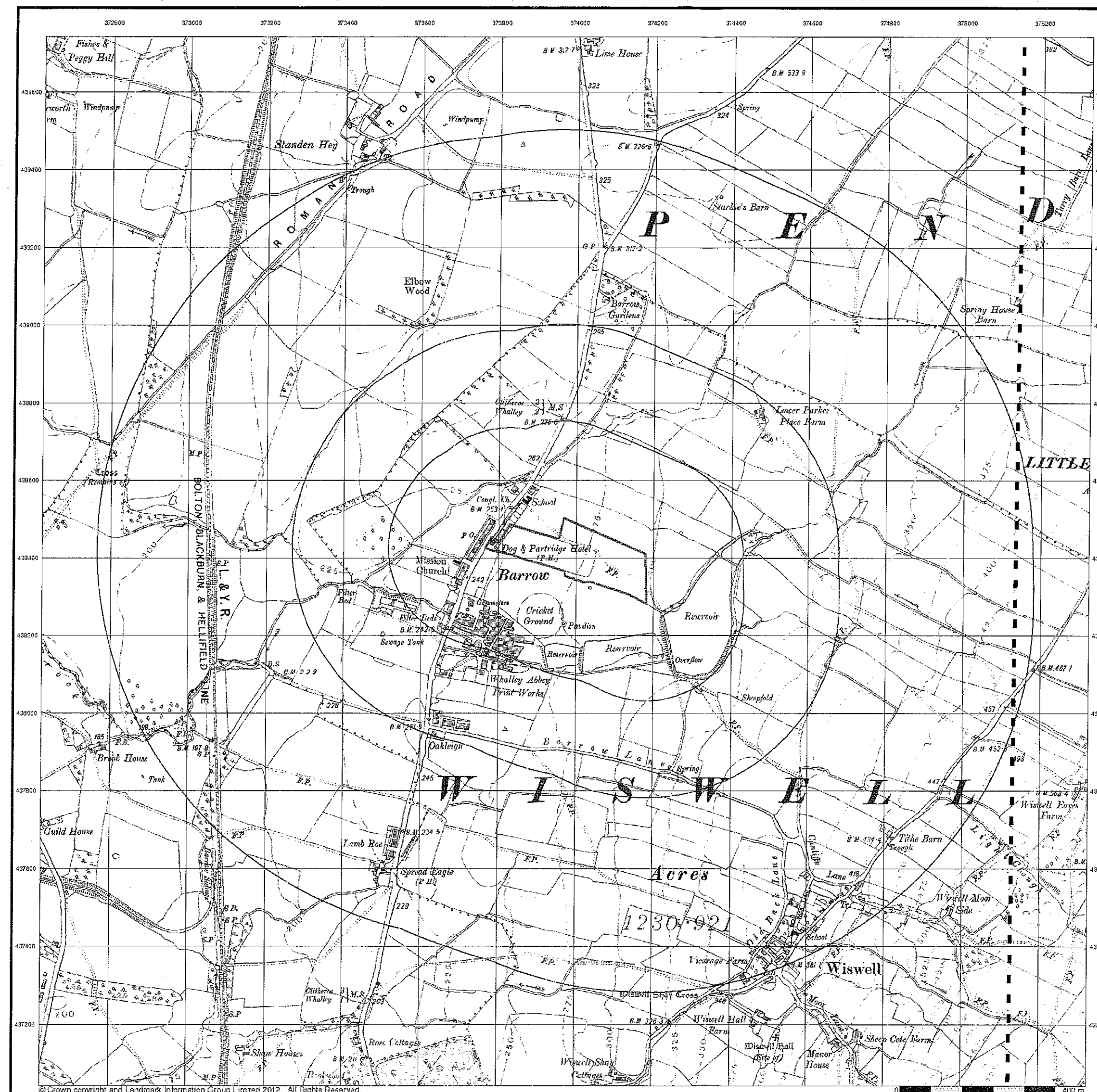
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National Grid Reference: 373990, 438390
Slice: A
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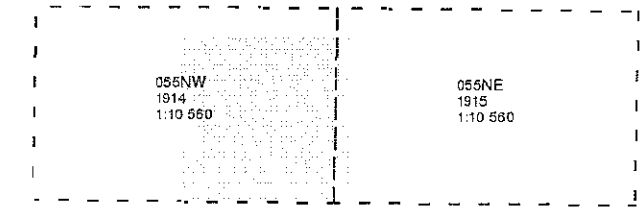


Lancashire And Furness
Published 1914 - 1915
Source map scale - 1:10,560

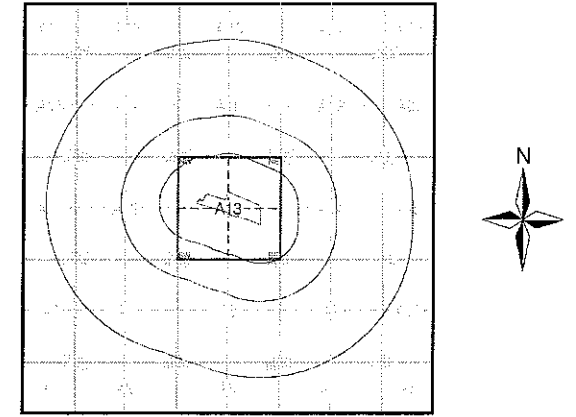
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320120739P

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

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OPUS

Lancashire And Furness

Published 1932

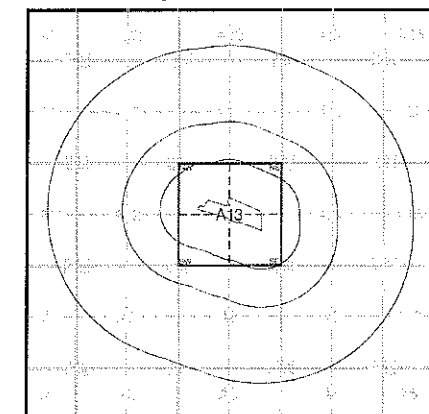
Source map scale - 1:10,560

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Map Name(s) and Date(s)

055NW
1932
1:10 560

Historical Map - Slice A



Order Details

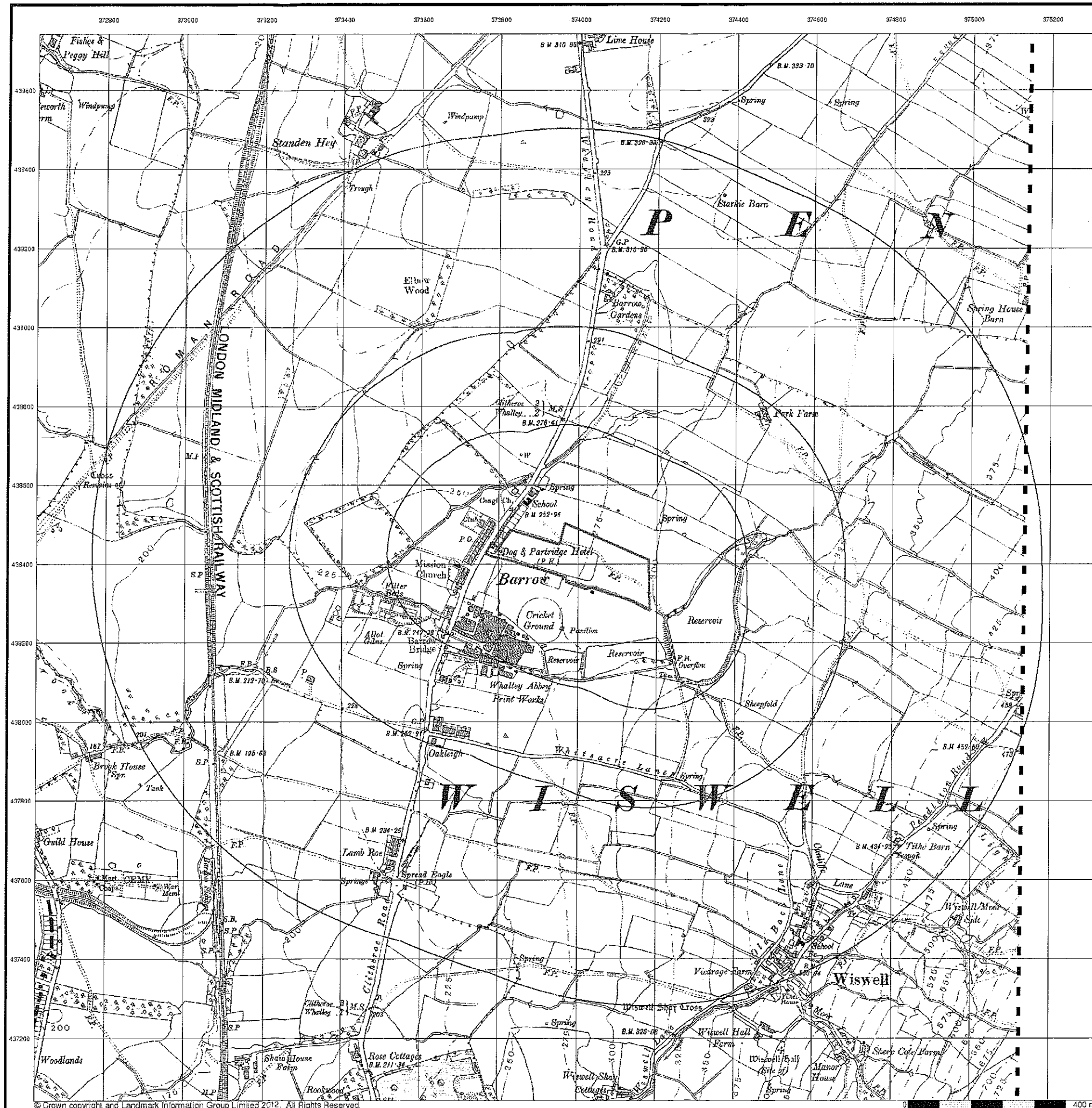
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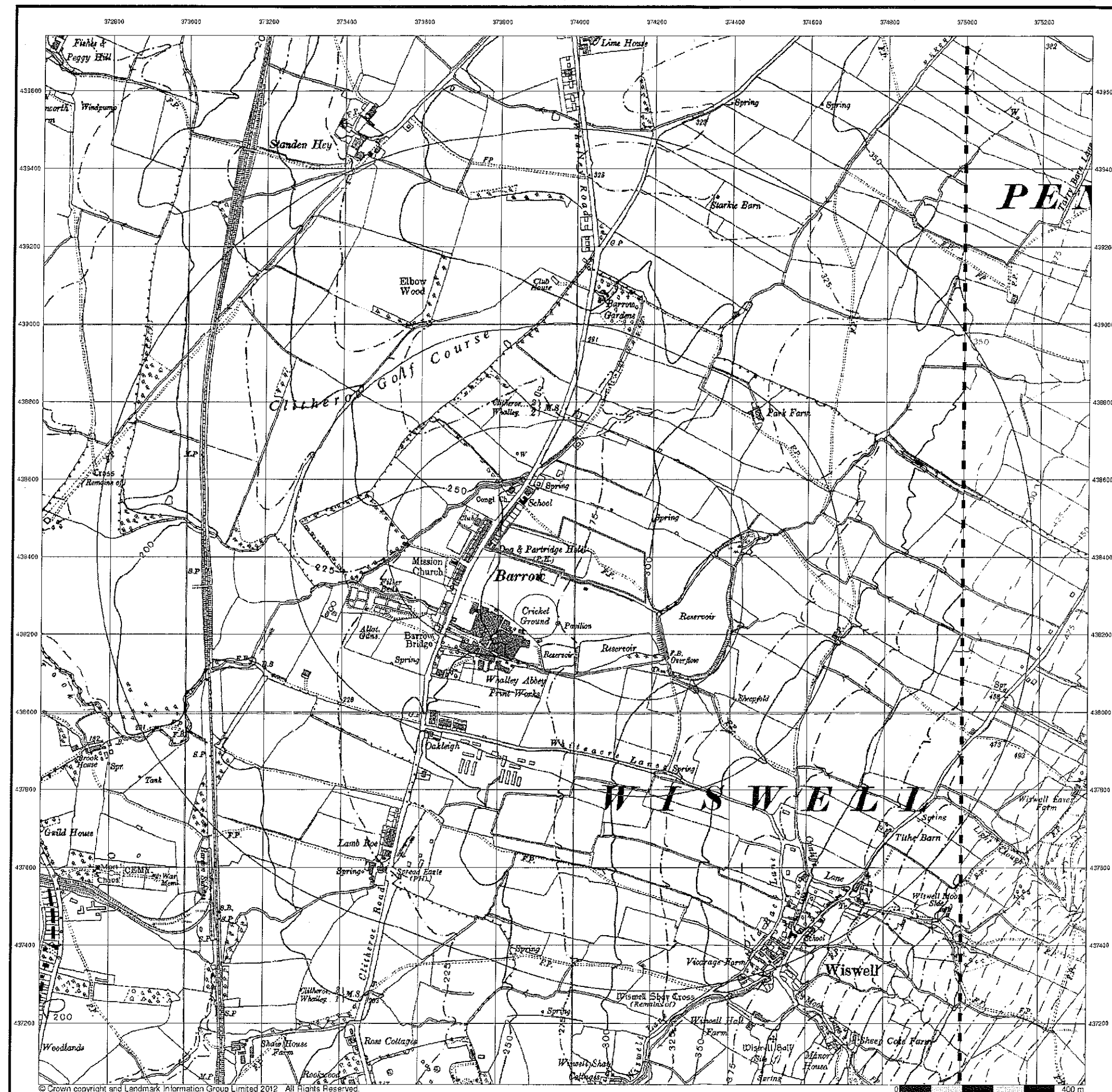
Site Details

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Ordnance Survey Plan

Published 1955 - 1956

Source map scale - 1:10,000

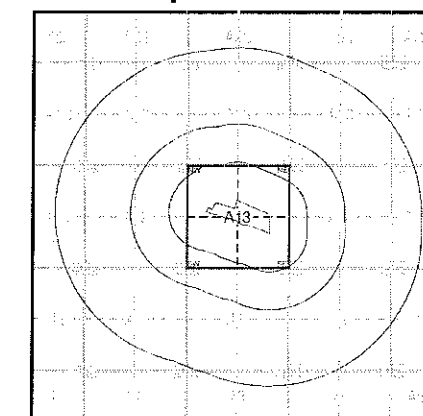
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320120739P

Map Name(s) and Date(s)

SD73NW	SD73NE
1955	1956
1:10 560	1:10 560

Historical Map - Slice A



Order Details

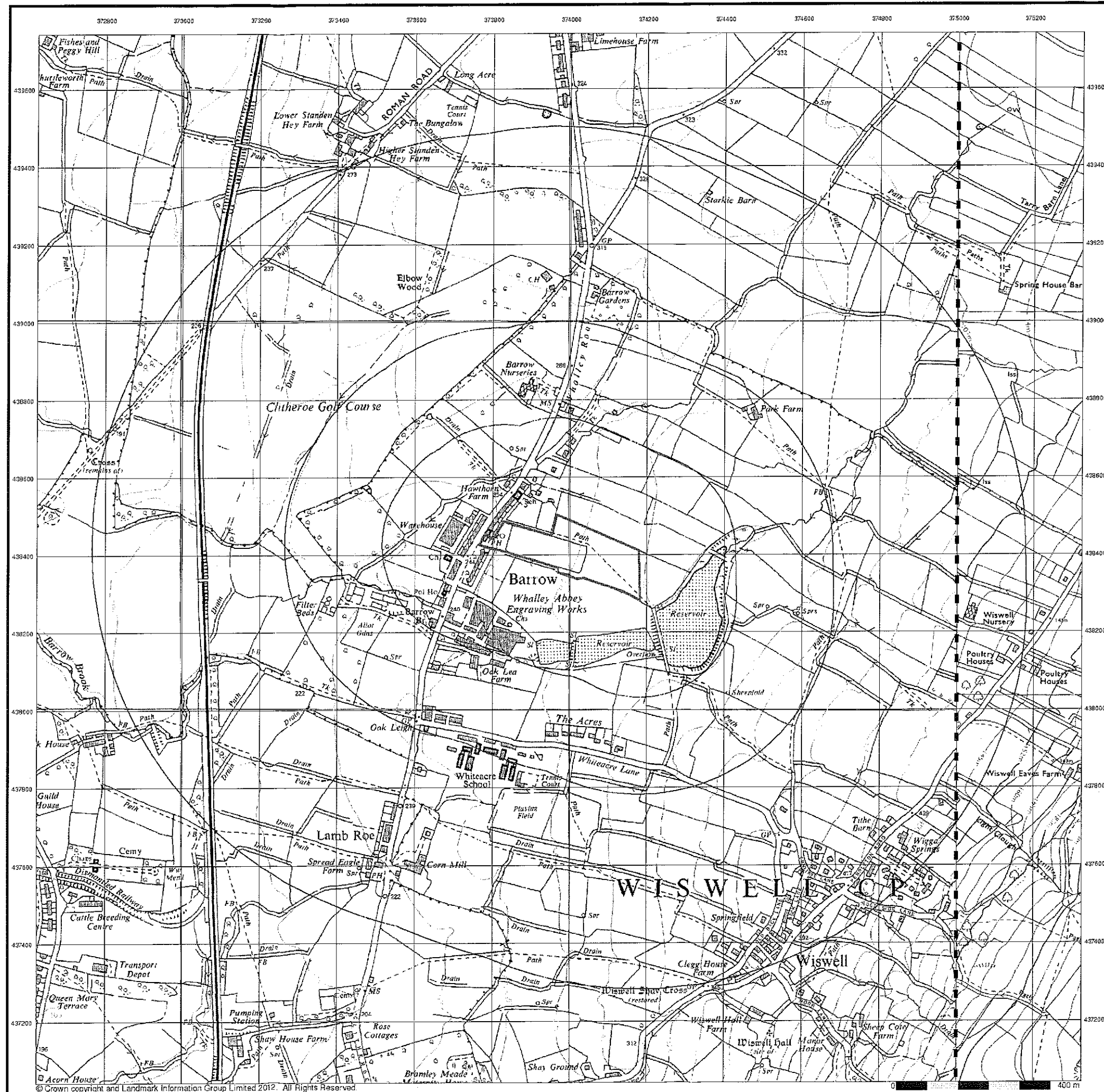
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Ordnance Survey Plan

Published 1970 - 1973

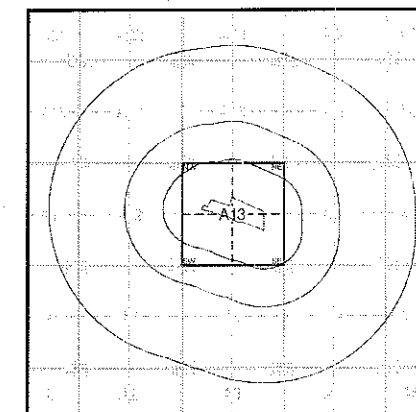
Source map scale - 1:10,000

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)

SD73NW	SD73NE
1970	1973
1:10 560	1:10 000

Historical Map - Slice A



Order Details

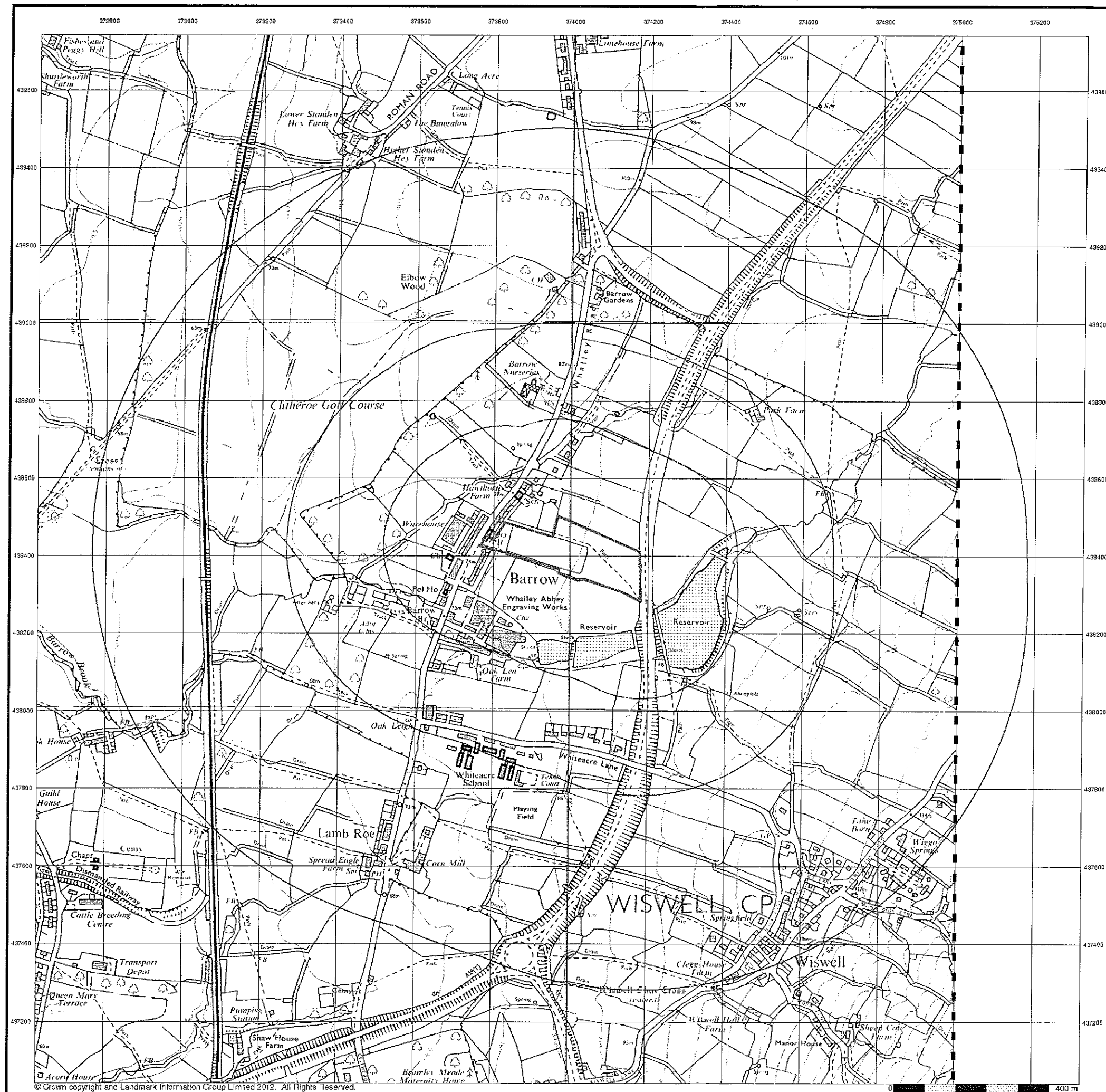
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Site Details

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Ordnance Survey Plan

Published 1975

Source map scale - 1:10,000

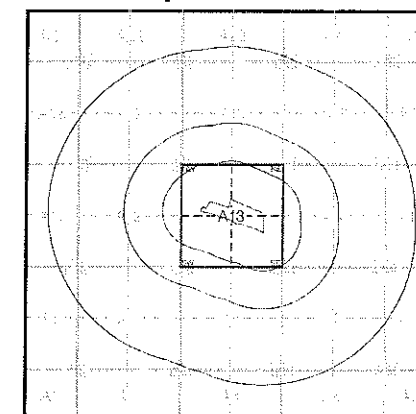
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320120739P

Map Name(s) and Date(s)

SD73NW
1975
1:10,000

Historical Map - Slice A



Order Details

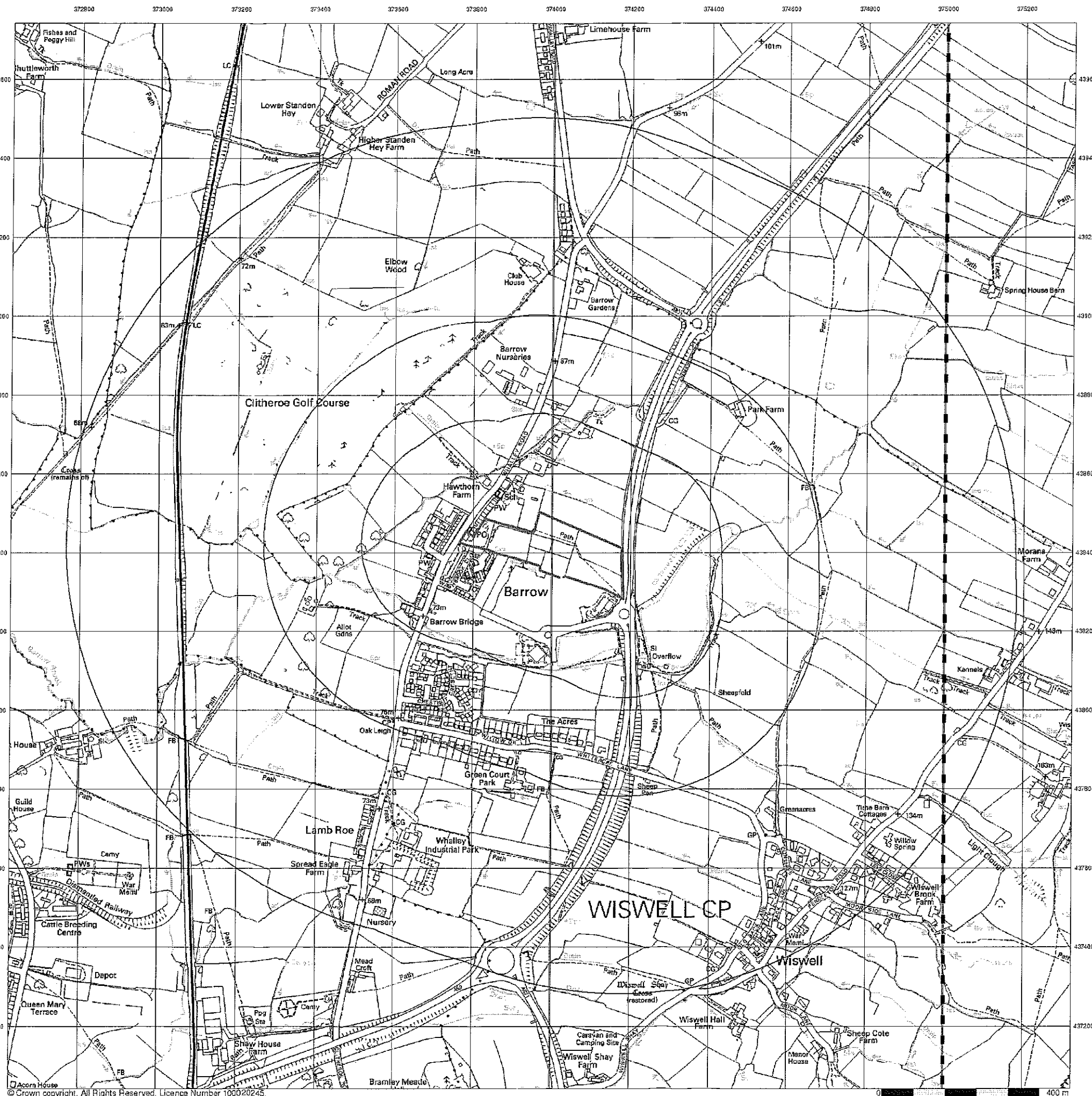
Order Number: 38740843_1_1
Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

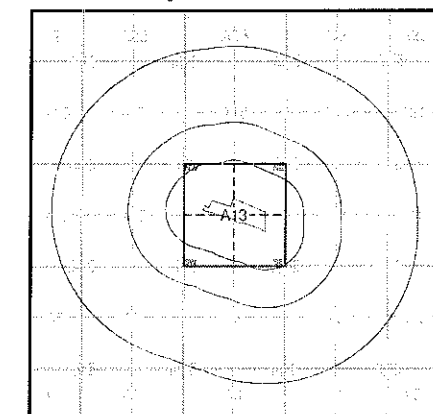
Published 2006

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Historical Map - Slice A



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

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OPUS

10k Raster Mapping

Published 2011

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

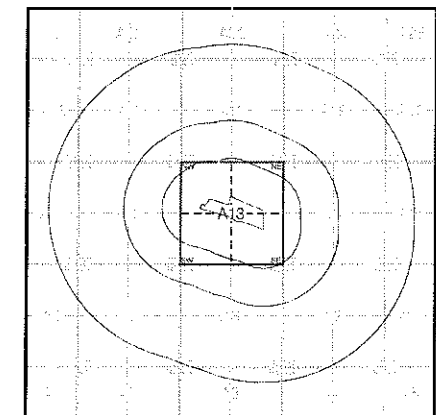
320120739P

Map Name(s) and Date(s)

SD73NW
2011
1:10 000

SD73NE
2011
1:10 000

Historical Map - Slice A



Order Details

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Customer Ref: J-D0807 00
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Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ

Landmark
Information Group

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

Historical Mapping Legends

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

Quarry, Gravel Pit, Sand Pit, Clay Pit, Shingle, Refuse Heap, Sloping Masonry, Flat Rock, Marsh, Reeds, Osiers, Rough Pasture, Furze, Wood, Mixed Wood, Brushwood, Orchard, Fir, Ford, Stepping Stones, Ferry, Waterfall, Lock, Trig. Station, Altitude at Trig. Station, Bench Mark, Surface Level, Arrow denotes flow of water, Antiquities (site of), Cutting, Embankment, Railway crossing Road, Level Crossing, Road crossing Railway, Railway crossing River or Canal, Road over single stream, Road over River or Canal, County Boundary (Geographical), County & Civil Parish Boundary, Administrative County & Civil Parish Boundary, County Borough Boundary (England), County Borough Boundary (Scotland), Boundary Post or Stone, Police Call Box, Bridge Road, Pump, Electricity Pylon, Signal Post, Foot Bridge, Sluice, Foot Path, Spring, Guide Post or Board, Telephone Call Box, Mile Stone, Trough, Mooring Post or Ring, Well

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

Inactive Quarry, Chalk Pit or Clay Pit, Active Quarry, Chalk Pit or Clay Pit, Rock, Boulders, Slopes, Top, Cliff, Roofed Building, Glazed Roof Building, Non-Coniferous Tree (surveyed), Coniferous Tree (surveyed), Non-Coniferous Trees (not surveyed), Coniferous Trees (not surveyed), Orchard Tree, Scrub, Bracken, Coppice, Osier, Reeds, Marsh, Saltings, Rough Grassland, Heath, Culvert, Direction of water flow, Bench Mark, Antiquity (site of), Cave Entrance, Triangulation Station, Electricity Pylon, Electricity Transmission Line, County Boundary (Geographical), County & Civil Parish Boundary, Civil Parish Boundary, Admin. County or County Bor. Boundary, London Borough Boundary, Symbol marking point where boundary mereing changes, Beer House, Pillar Pole or Post, Boundary Post or Stone, Post Office, Capstan, Crane, Public Convenience, Chimney, Public House, Drinking Fountain, Pump, Electricity Pillar or Post, Signal Box or Bridge, Fire Alarm Pillar, Signal Post or Light, Foot Bridge, Spring, Guide Post, Tank or Track, Hydrant or Hydraulic, Telephone Call Box, Level Crossing, Telephone Call Post, Manhole, Trough, Mile Post or Mooring Post, Water Point, Water Tap, Mile Stone, Well, Normal Tidal Limit, Wind Pump

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

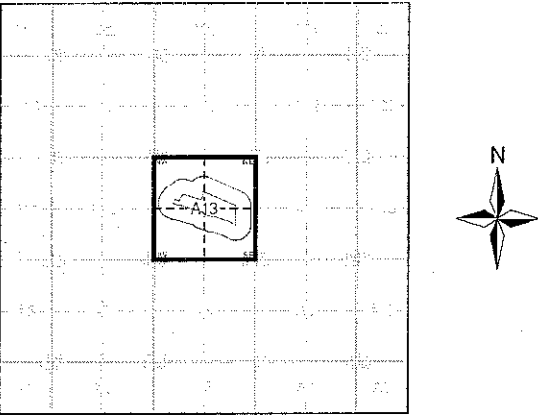
Slopes, Top, Cliff, Rock, Rock (scattered), Boulders, Boulders (scattered), Positioned Boulder, Scree, Non-Coniferous Tree (surveyed), Coniferous Tree (surveyed), Non-Coniferous Trees (not surveyed), Coniferous Trees (not surveyed), Orchard Tree, Scrub, Bracken, Coppice, Osier, Reeds, Marsh, Saltings, Rough Grassland, Heath, Culvert, Direction of water flow, Triangulation Station, Antiquity (site of), Electricity Transmission Line, Electricity Pylon, Bench Mark, Buildings with Building Seed, Roofed Building, Glazed Roof Building, Civil parish/community boundary, District boundary, County boundary, Boundary post/stone, Boundary mereing symbol (note: these always appear in opposed pairs or groups of three), Barracks, Pillar, Pole or Post, Battery, Post Office, Cemetery, Public Convenience, Chimney, Pump, Cistern, Pumping Station, Dismtd Rly, Dismantled Railway, Place of Worship, Electricity Generating Station, Sewage Pumping Station, Electricity Pole, Pillar, Signal Box or Bridge, Electricity Sub Station, Signal Post or Light, Filter Bed, Spring, Fountain / Drinking Ftn, Tank or Track, Gas Valve Compound, Trough, Gas Governor, Wind Pump, Guide Post, Water Point, Water Tap, Manhole, Works (building or area), Mile Post or Mile Stone, Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Yorkshire	1:2,500	1894	3
Yorkshire	1:2,500	1908	4
Lancashire And Furness	1:2,500	1912	5
Lancashire And Furness	1:2,500	1932	6
Ordnance Survey Plan	1:2,500	1967	7
Ordnance Survey Plan	1:2,500	1973	8
Additional SIMs	1:2,500	1983	9
Large-Scale National Grid Data	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1995	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13

Historical Map - Segment A13



Order Details

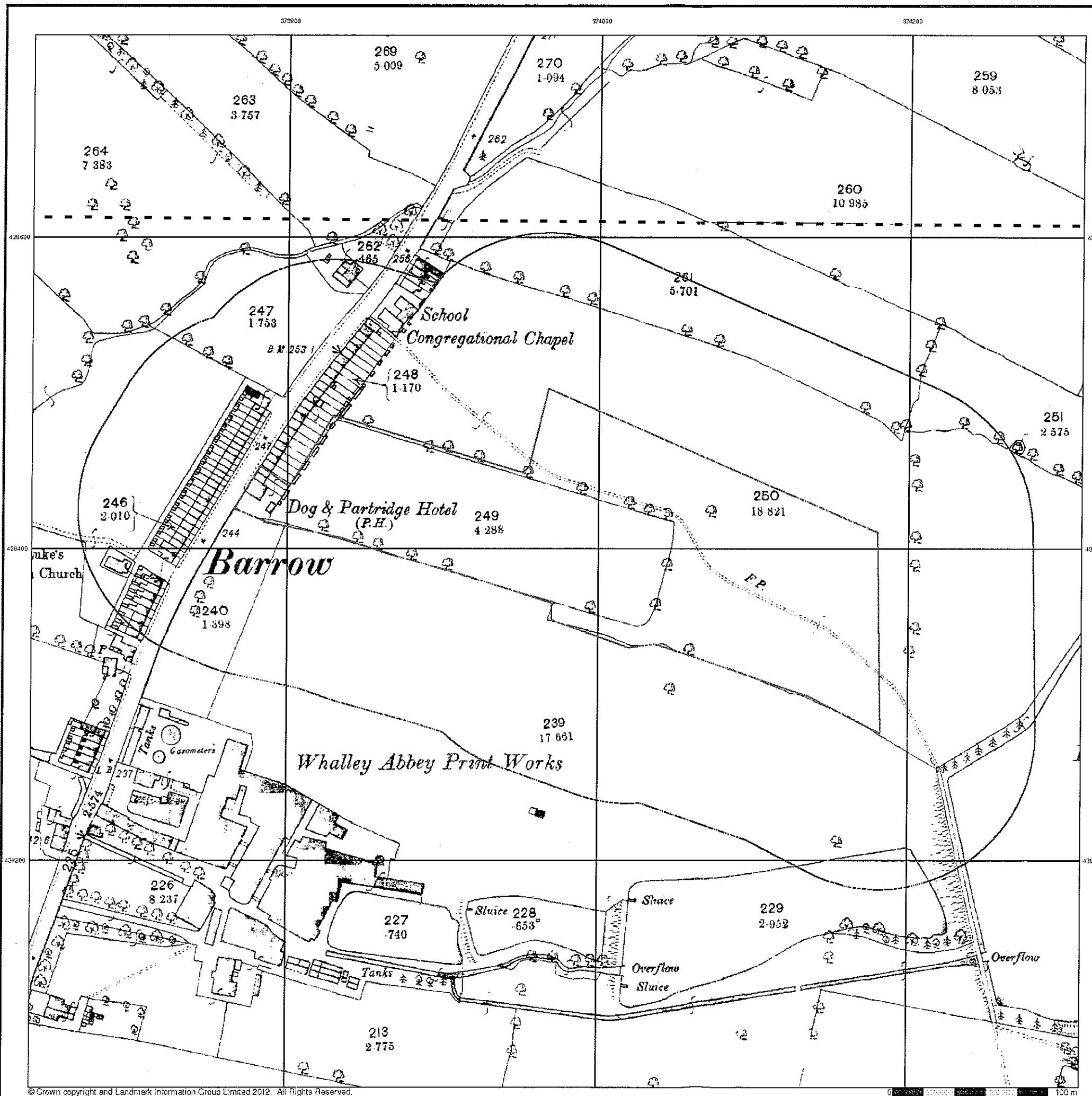
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Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



Tel: 0844 844 9952
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Lancashire And Furness

Published 1893

Source map scale - 1:2,500

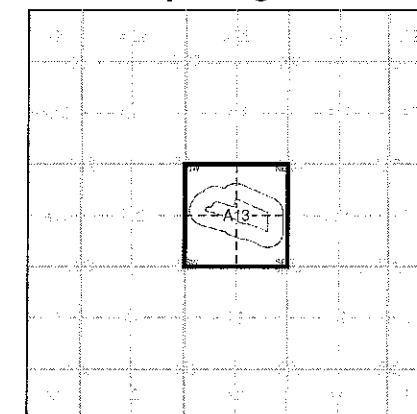
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

320120739P

Map Name(s) and Date(s)

055 02
1893
1:2 500
055 06
1893
1:2 500

Historical Map - Segment A13



Order Details

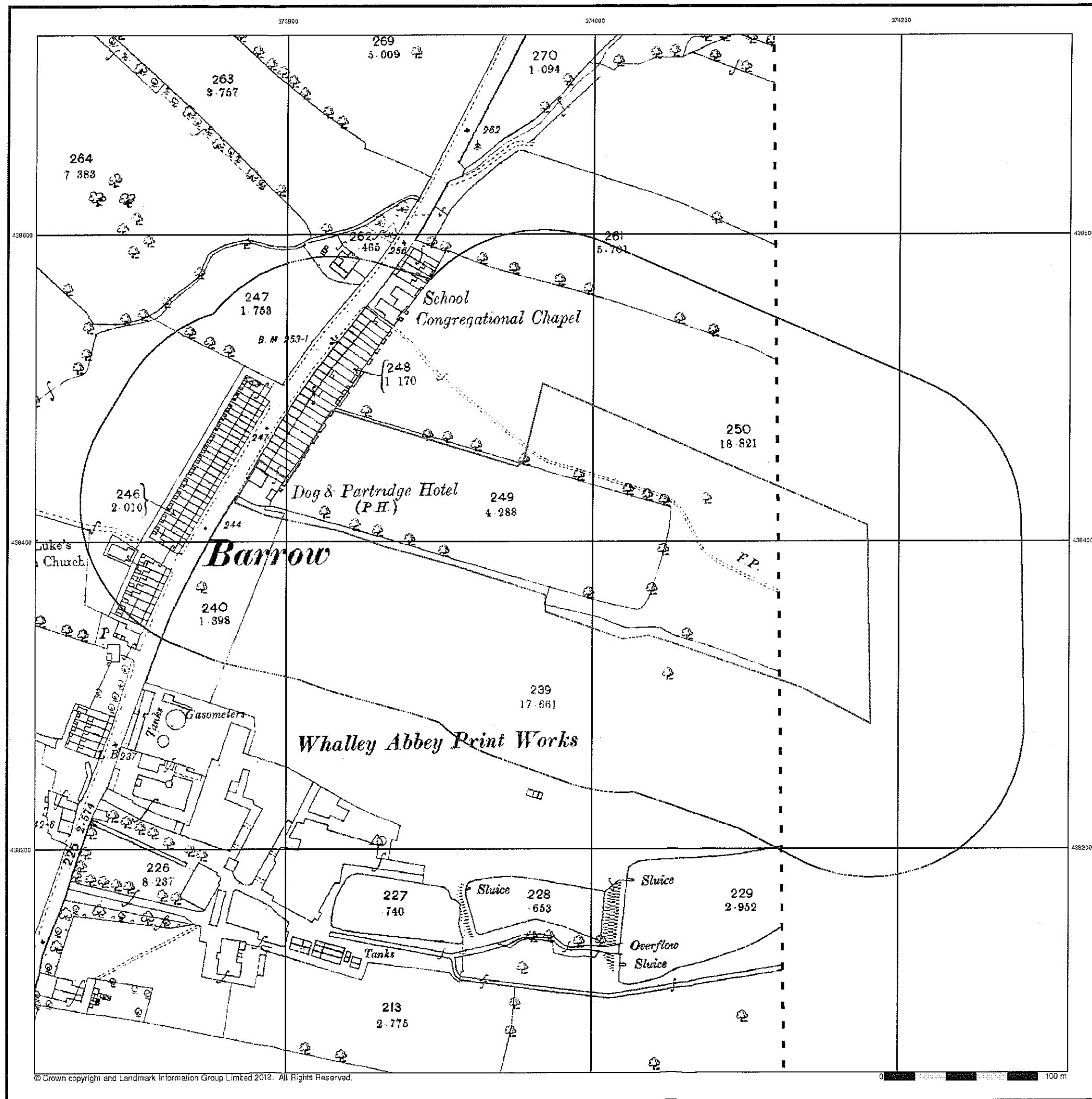
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Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

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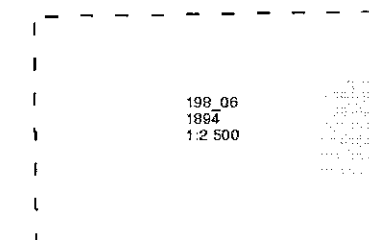
Yorkshire

Published 1894

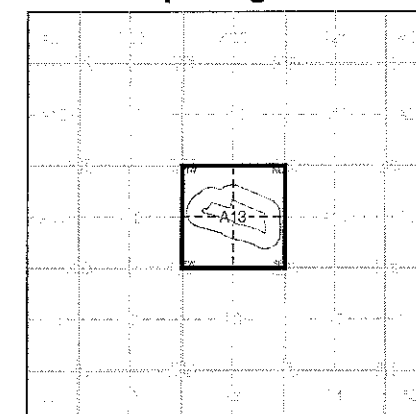
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

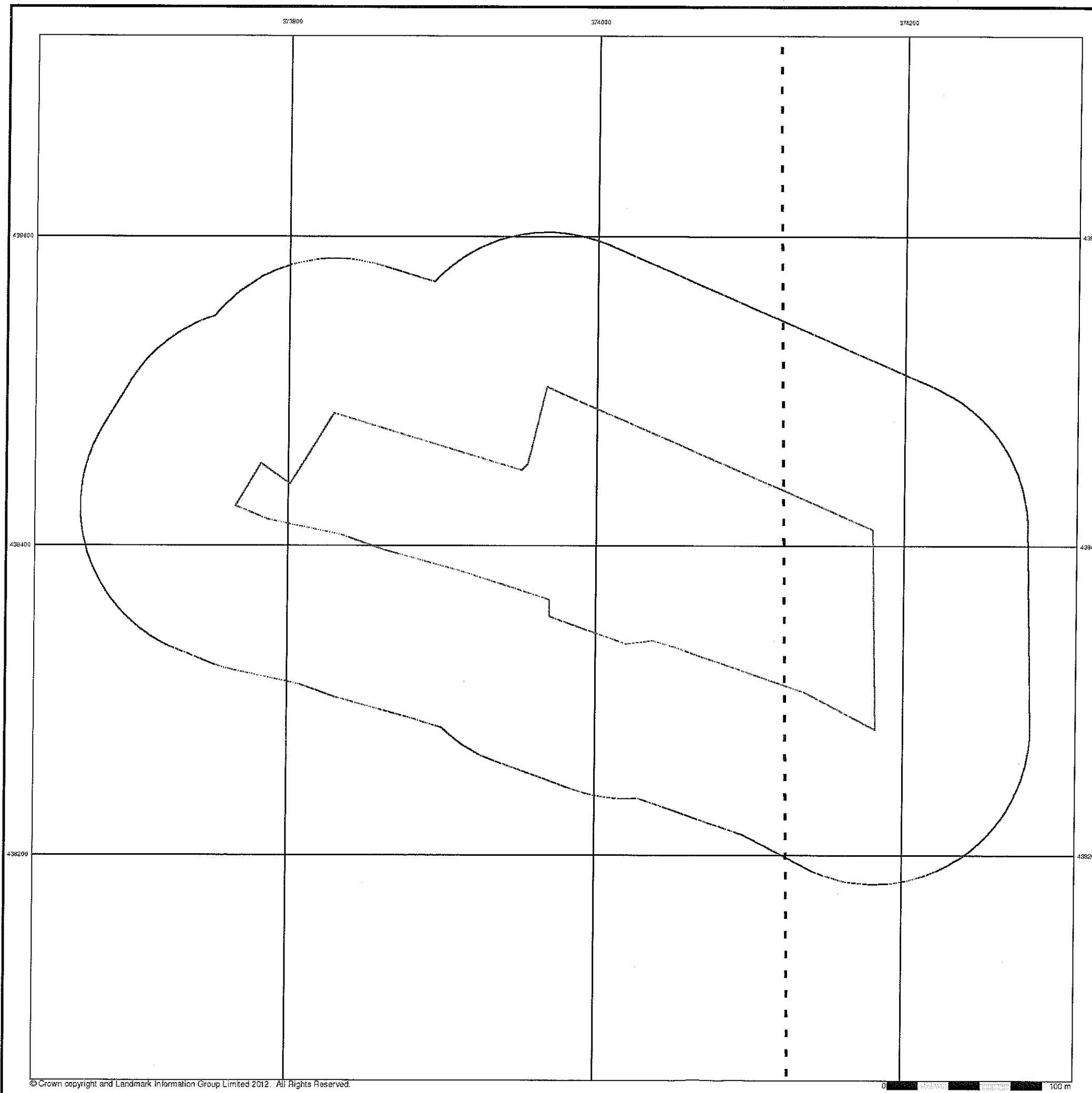
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 Customer Ref: J-D0807 00
 National Grid Reference: 373990, 438390
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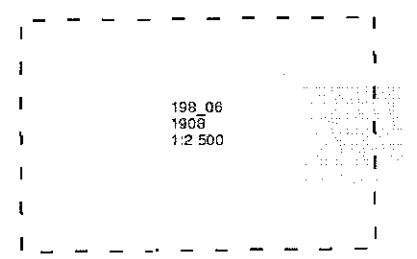


Yorkshire
Published 1908
Source map scale - 1:2,500

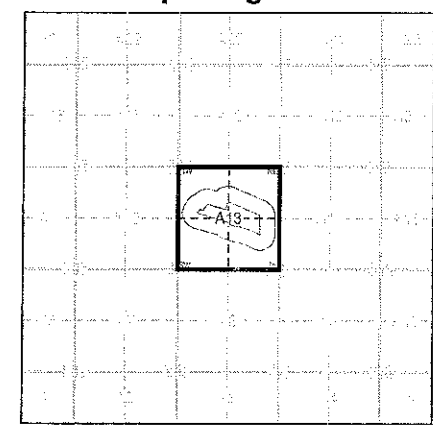
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320120739P

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

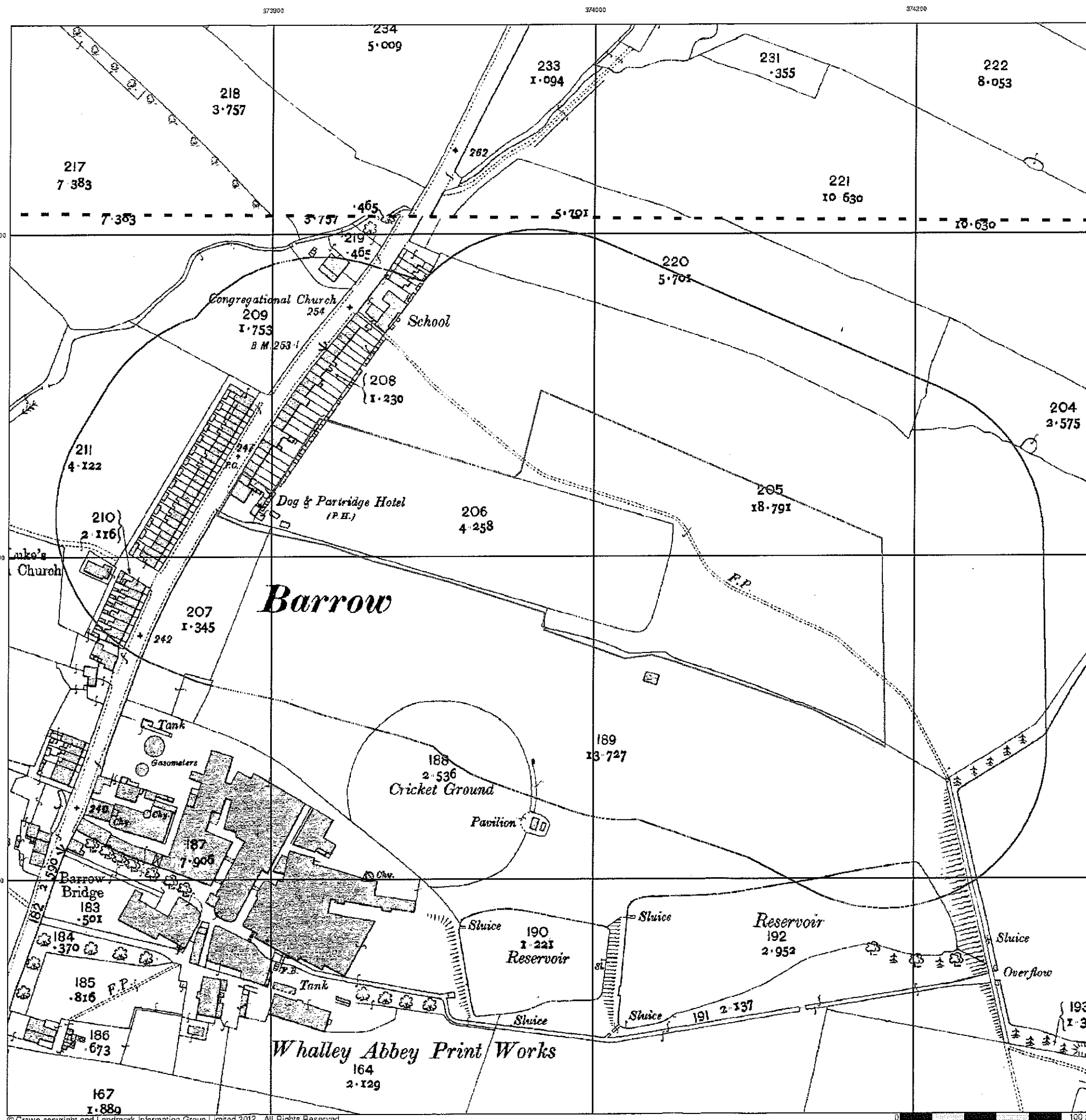
Order Number: 38740843_1_1
Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

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Lancashire And Furness

Published 1912

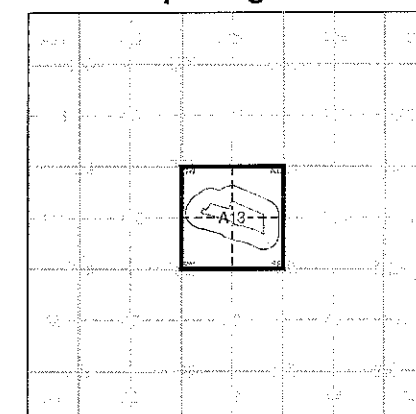
Source map scale - 1:2,500

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Map Name(s) and Date(s)

055_02
1912
1:2,500
055_08
1912
1:2,500

Historical Map - Segment A13



Order Details

Order Number: 38740843_1_1
 Customer Ref: J-D0807 00
 National Grid Reference: 373990, 438390
 Slice: A
 Site Area (Ha): 4.19
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Ordnance Survey Plan

Published 1967

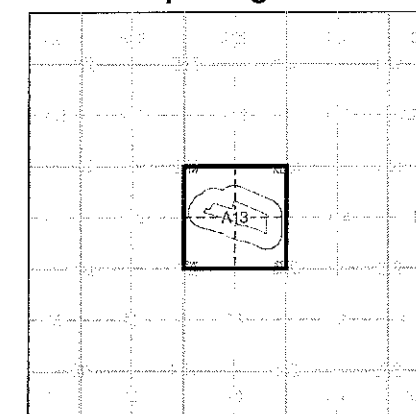
Source map scale - 1:2,500

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)

SD7338 1967 1:2 500	SD7438 1967 1:2 500
---------------------------	---------------------------

Historical Map - Segment A13



Order Details

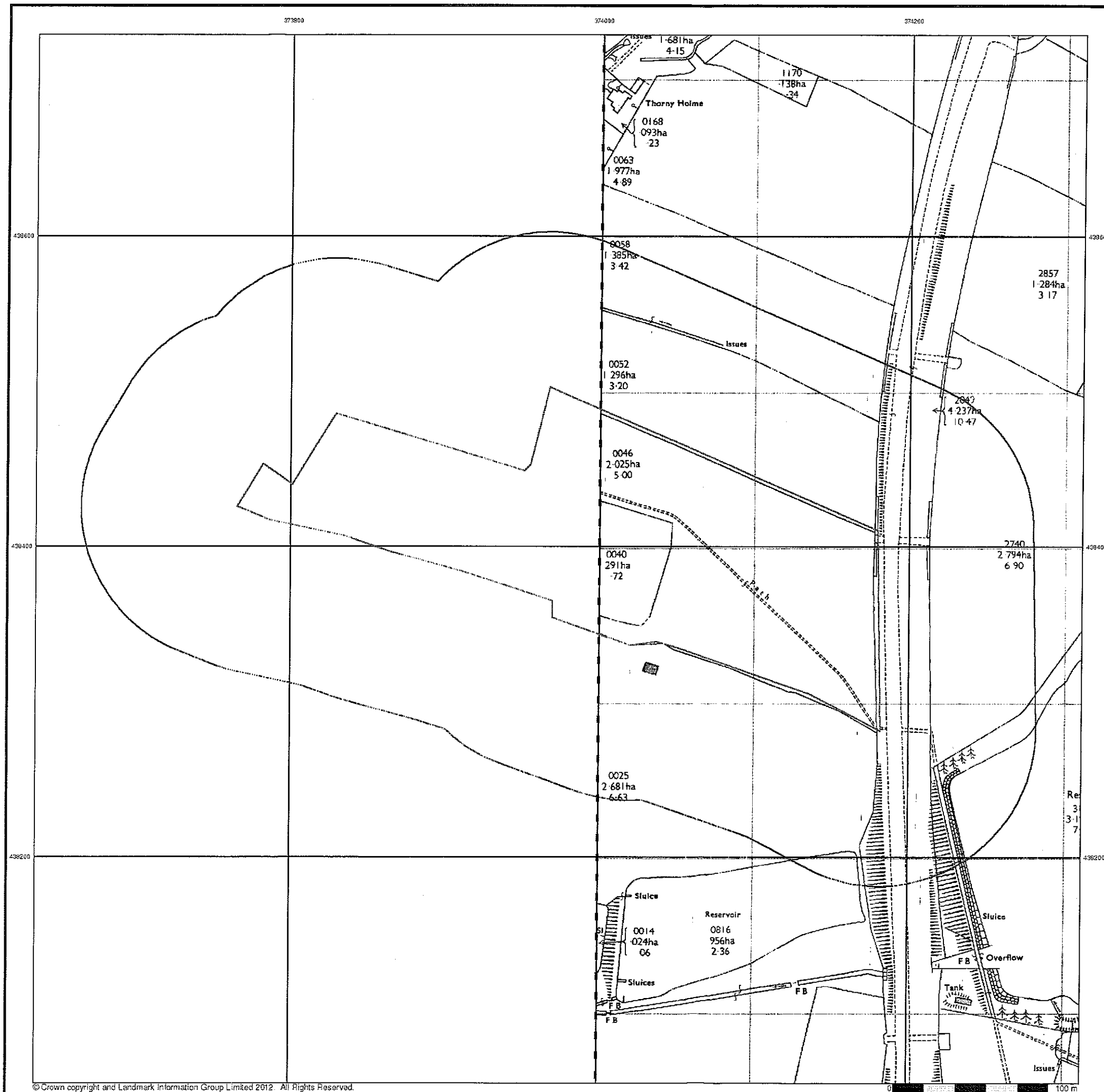
Order Number: 38740843_1_1
Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



Tel: 0844 844 9952
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Ordnance Survey Plan

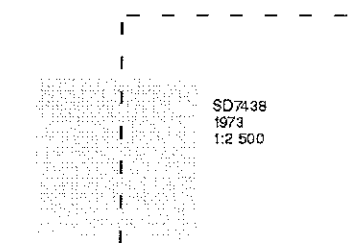
Published 1973

Source map scale - 1:2,500

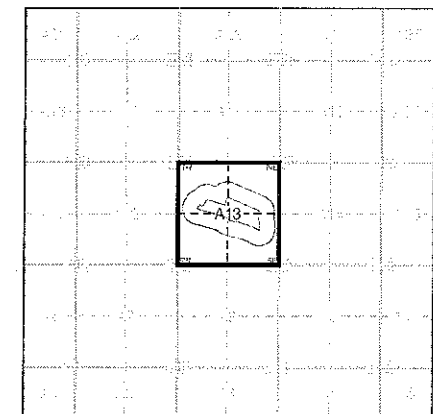
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

320120739P

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 373990 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

Site Details

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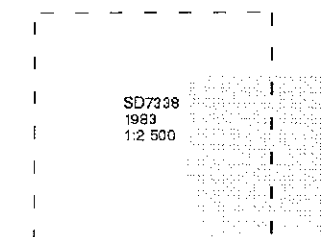
Additional SIMs

Published 1983

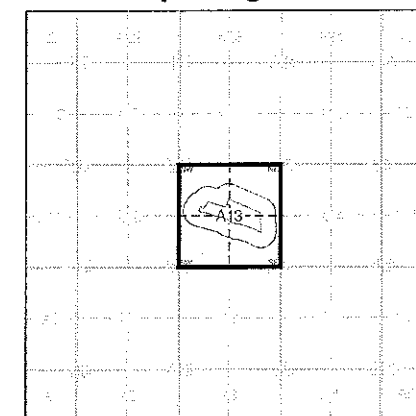
Source map scale - 1:2,500

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 A13



Order Details

Order Number: 38740843_1_1
 Customer Ref: J-D0807.00
 National Grid Reference: 373990, 438390
 Slice: A
 Site Area (Ha): 4.19
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Site Details

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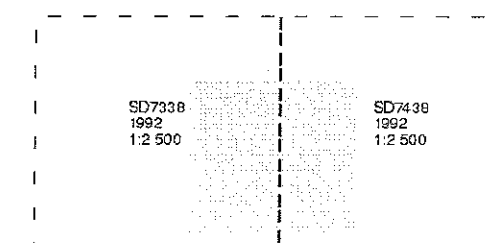
**Large-Scale National Grid Data
Published 1992**

Source map scale - 1:2,500

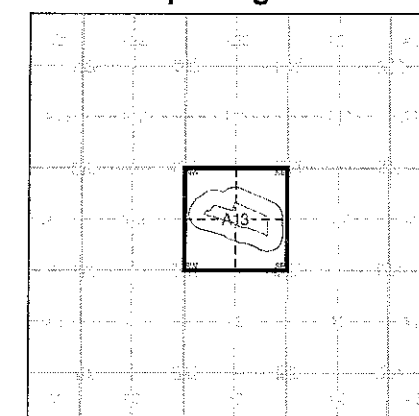
Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features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

320120739P

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

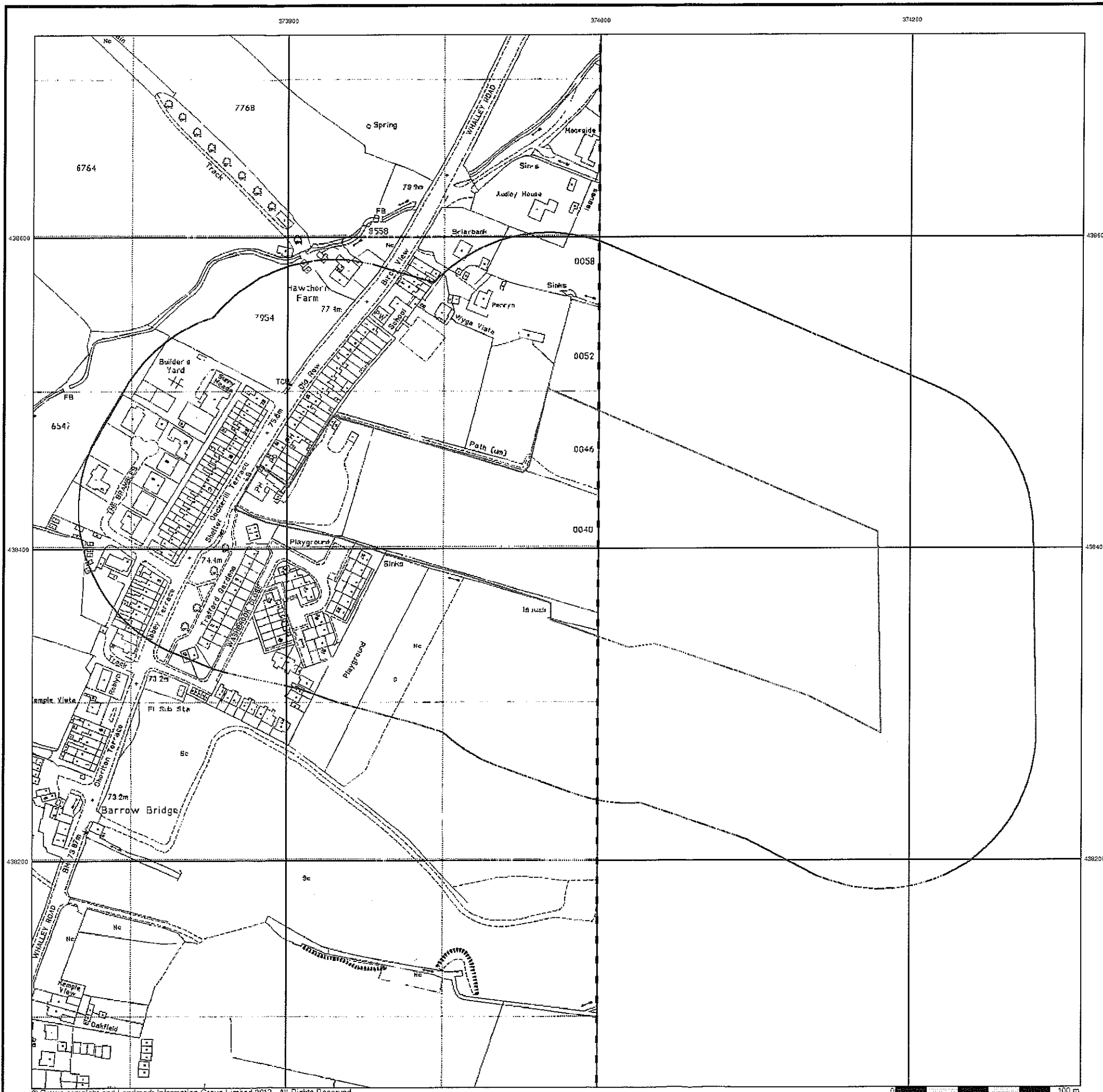
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Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

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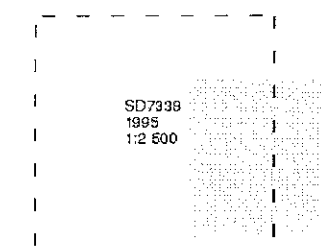


Large-Scale National Grid Data Published 1995

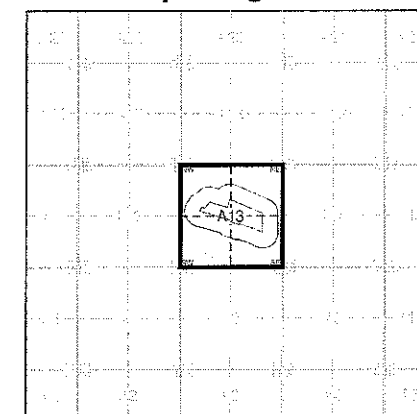
Source map scale - 1:2,500

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 A13



Order Details

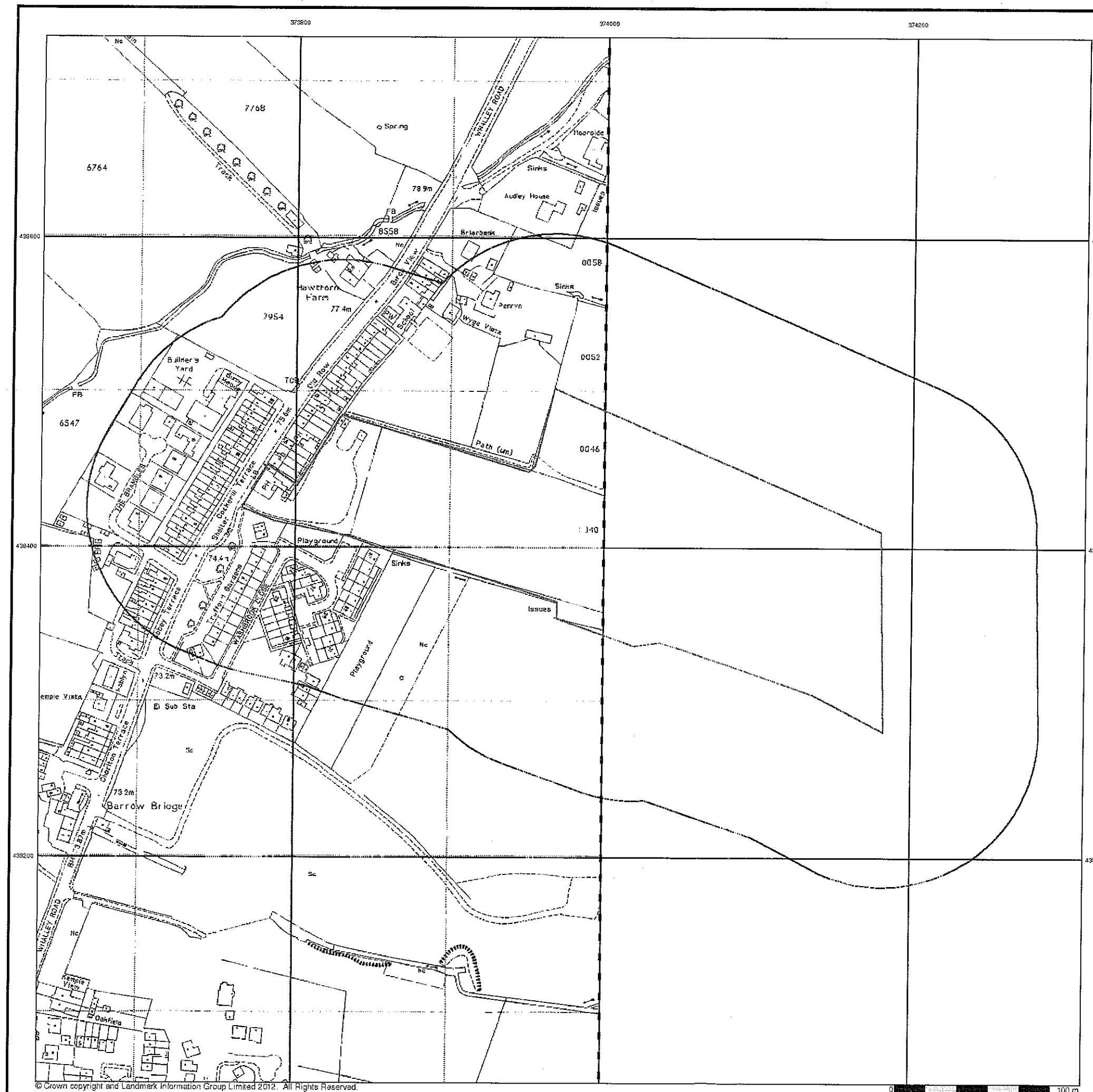
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Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



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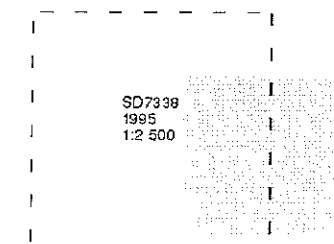
**Large-Scale National Grid Data
Published 1995**

Source map scale - 1:2,500

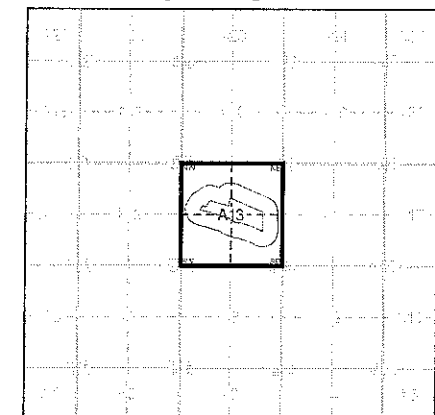
Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

320120739P

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
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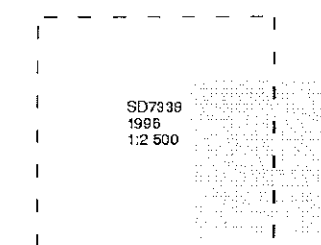


Large-Scale National Grid Data Published 1996

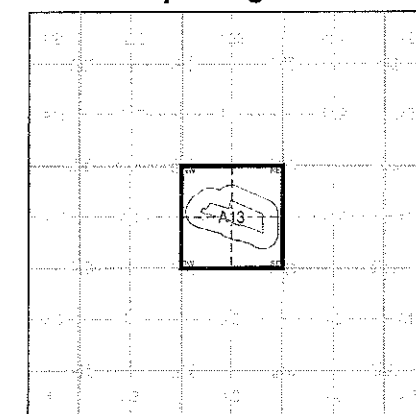
Source map scale - 1:2,500

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 A13



Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 100

Site Details

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APPENDIX B

Envirocheck Report

320120739D



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:
38740843_1_1

Customer Reference:
J-D0807.00

National Grid Reference:
373990, 438390

Slice:
A

Site Area (Ha):
4.19

Search Buffer (m):
1000

Site Details:

King Charles
23 Old Row (Whalley Road)
Clitheroe
BB7 9AZ

Client Details:

Ms N Hughes
Opus International Consultants (UK) Ltd
1-2 Aire House
Richmond Business Park
Sidings Court
Doncaster
South Yorkshire
DN4 5NL



Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	13
Industrial Land Use	18
Sensitive Land Use	21
Data Currency	22
Data Suppliers	26
Useful Contacts	27

320120739P

Introduction

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

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

Report Version v47.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	6	3
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			Yes		
Pollution Incidents to Controlled Waters	pg 3		8	5	6
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 7				1
Water Abstractions	pg 7		3	1	5 (*9)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 11	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 11	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
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 Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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 Estimated Soil Chemistry	pg 13	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 17	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 17	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 17	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 17	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 17	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 18		3		22
Fuel Station Entries	pg 20		1		1

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty	pg 21				1
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Howard Rayner & Associates Ltd Property Type: Fish Farm Location: Whalley Trout Fishery A59 By Pass, Barrow Blackburn Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017190396 Permit Version: 1 Effective Date: 10th June 1991 Issued Date: Not Supplied Revocation Date: 31st March 1993 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	144	1	374300 438200
1	Discharge Consents Operator: Howard Rayner & Associates Ltd Property Type: Fish Farm Location: Whalley Trout Fishery A59 By Pass, Barrow Blackburn Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017190396 Permit Version: 2 Effective Date: 1st April 1993 Issued Date: Not Supplied Revocation Date: 3rd August 1993 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	144	1	374300 438200
2	Discharge Consents Operator: T Hanson & Sons Ltd Property Type: Horticulture Est. Nursery Gardens Location: Barrow Nurseries Swo Whalley Road, Barrow Clitheroe Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017190243 Permit Version: 1 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A18SW (N)	361	1	373870 438850
3	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: 31st January 1985 Revocation Date: 13th July 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SE (W)	392	1	373385 438335

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Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SE (W)	393	1	373385 438330
3	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Barrow Et Works Humu Authority: Environment Agency North West Region Catchment Area: Ribble (Ex Calder) Reference: 17160031 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 1st April 1991 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Coastal Environment: Receiving Water: Barrow Brook Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	398	1	373380 438330
3	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency North West Region Catchment Area: Ribble (Ex Calder) Reference: 017160031 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: 31st January 1985 Revocation Date: 13th July 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A12SE (W)	398	1	373380 438330
3	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A12SE (W)	398	1	373380 438330



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Ps Off Cunliffe Lane, Wiswall, Ribble Valley Lancashire Authority: Environment Agency North West Region Catchment Area: Calder (Ribble) Reference: 01rib0014 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Roadside Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	736	1	374590 437670
4	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Ps Off Cunliffe Lane, Wiswall, Ribble Valley Lancashire Authority: Environment Agency North West Region Catchment Area: Calder (Ribble) Reference: 01RIB0014 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Roadside Dyke Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	736	1	374590 437670
5	Discharge Consents Operator: Whitbread Bowland Inns Property Type: Public Houses & Bars Location: Whitbread Bowland Inns, Nr Whalley, Lancashire Authority: Environment Agency North West Region Catchment Area: Not Given Reference: 01719190201 Permit Version: 1 Effective Date: 8th September 1986 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib For Drainage Area 72 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	961	1	373500 437500
	Nearest Surface Water Feature	A13SW (W)	3	-	373904 438383
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Oils - Other Oil Note: Barrow Brook; Barrow Brook Incident Date: 29th December 1993 Incident Reference: 93340120 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	19	1	374200 438300

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Barrow Brook Incident Date: 12th October 1993 Incident Reference: 93340093 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	71	1	373700 438400
8	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Animal Waste/Slurry Note: Tributary Barrow Brook Incident Date: 3rd January 1992 Incident Reference: 92320002 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	84	1	374200 438200
9	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Animal Waste/Slurry Note: Barrow Brook Incident Date: 16th May 1992 Incident Reference: 92340061 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	110	1	374100 438200
9	Pollution Incidents to Controlled Waters Property Type: Boats/Ships Location: Lancashire Authority: Environment Agency North West Region Pollutant: Unknown Note: None Incident Date: 27th June 1994 Incident Reference: 94340099 Catchment Area: Ribble - Non-Tidal Receiving Water: Canal Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	115	1	374100 438195
10	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Animal Waste/Slurry Note: Tributary Barrow Brook Incident Date: 22nd December 1992 Incident Reference: 92340116 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	204	1	373900 438695
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Barrow Brook Incident Date: 3rd August 1992 Incident Reference: 92340088 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	209	1	373900 438700



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Algae Note: Tributary Barrow Brook; Blue Green Algae Incident Date: 11th October 1993 Incident Reference: 93340099 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	238	1	374400 438500
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Rubble/Litter Or Solids Note: Barrow Brook; Waste Plastic Cont Incident Date: 28th November 1991 Incident Reference: 91340113 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	294	1	373500 438300
13	Pollution Incidents to Controlled Waters Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Sewage - Septic Tank Effluent Note: Tributary Barrow Brook Incident Date: 15th June 1993 Incident Reference: 93340046 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	316	1	373800 438800
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Barrow Brook Incident Date: 25th May 1995 Incident Reference: 95330124 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	358	1	373900 438000
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Rubble/Litter Or Solids Note: Barrow Brook Incident Date: 12th May 1993 Incident Reference: 93340033 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	430	1	373400 438200
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 27th May 1992 Incident Reference: 92330169 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	432	1	374500 438700

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Animal Waste/Slurry Note: Barrow Brook; Chicken Slurry Incident Date: 16th August 1993 Incident Reference: 93340072 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	529	1	373500 438900
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Oils - Unknown Note: Tributary Barrow Brook Incident Date: 14th December 1992 Incident Reference: 92340112 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	856	1	374700 437600
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency North West Region Pollutant: Oils - Other Oil Note: Tributary Calder; Oil/Silt Incident Date: 12th June 1993 Incident Reference: 93330178 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	866	1	373500 437600
19	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Tributary River Calder Incident Date: 15th July 1993 Incident Reference: 93330217 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	871	1	373500 437595
20	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Filter Backwash Water Note: Tributary Calder Incident Date: 14th June 1993 Incident Reference: 93330180 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	904	1	373400 437600
21	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Tributary River Calder Incident Date: 22nd July 1994 Incident Reference: 94330200 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	937	1	374500 437400



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region North Area Incident Date: 3rd March 2007 Incident Reference: 473953 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Slurry And Dilute Slurry	A17NE (NW)	983	1	373390 439365
23	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309052 Permit Version: 2 Location: Land At Pendle View Fisheries, Clitheroe Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (E)	59	1	374240 438310
24	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309044 Permit Version: 102 Location: Reservoir At Barrow Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises-Whalley Trout Fisher Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	217	1	374300 438100
24	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309044 Permit Version: 101 Location: Reservoir At Barrow Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 655 Yearly Rate (m3): 238938 Details: Land & Premises-Whalley Trout Fisher Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	217	1	374300 438100
25	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309036 Permit Version: Not Supplied Location: Barrow Brook, Pendleton, CLITHEROE Authority: Environment Agency North West Region Abstraction: Industrial & Transfer Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 11 Yearly Rate (m3): 3404 Details: Additional Purpose: Transfer of water; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	387	1	373400 438300

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309047 Permit Version: 102 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery Barrow Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (SE)	549	1	374700 438100
26	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309047 Permit Version: 102 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery Barrow Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (SE)	549	1	374700 438100
26	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309047 Permit Version: 101 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 33 Yearly Rate (m3): 123451 Details: Pine Lodge Fishery Barrow Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (SE)	549	1	374700 438100
26	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309047 Permit Version: 101 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery Barrow Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (SE)	549	1	374700 438100



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309037 Permit Version: Not Supplied Location: Clitheroe Golf Club, CLITHEROE Authority: Environment Agency North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Inpoundment Of Unnamed Stream Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	571	1	373200 438500
	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309037 Permit Version: Not Supplied Location: Clitheroe Golf Club, CLITHEROE Authority: Environment Agency North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Inpoundment Of Unnamed Stream Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	1085	1	373200 437500
	Water Abstractions Operator: Mr T Whitewell Mrs A M Wood Licence Number: 2671336001 Permit Version: 100 Location: Spring At Sheepeate Farm, Wiswell. Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5 Yearly Rate (m3): 1364 Details: Wiswell Hall Farm Wiswell Whalley Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 11th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (SE)	1254	1	374600 437100
	Water Abstractions Operator: A F Scholfield Licence Number: 2671336006 Permit Version: 100 Location: Spring Fed Tank At Wiswell, Clitheroe Authority: Environment Agency, North West Region Abstraction: Household Water Supply; Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 133 Details: Manor House Cottage, Moor Lane Wiswell Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SW (SE)	1348	1	374600 437000

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr I Heywood Licence Number: 2671335026 Permit Version: 100 Location: Borehole At Wiswell Moor Meats Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 27 Yearly Rate (m3): 6819 Details: Land/Premises At Wiswell Moor Meats Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SE (SE)	1912	1	375600 437000
	Water Abstractions Operator: Mr I Heywood Licence Number: 2671335026 Permit Version: 100 Location: Borehole At Wiswell Moor Meats Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land/Premises At Wiswell Moor Meats Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SE (SE)	1912	1	375600 437000
	Water Abstractions Operator: Colin And Vivien Middleton Licence Number: 2671310010 Permit Version: 100 Location: Borehole At Clitheroe Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 18 Yearly Rate (m3): 6570 Details: Land At Little Mitton Farm Mitton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1979	1	371800 438200
	Water Abstractions Operator: Roy & Kathleen Dent Licence Number: 2671335008 Permit Version: 101 Location: Borehole At Bramley Farm, Wisnell, Whalley Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bramley Farm Wiswell Whalley Lancs Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th November 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SE (SE)	1983	1	375500 436800



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ralph Holgate Licence Number: 2671335008 Permit Version: 100 Location: Borehole At Bramley Farm, Wiswell, Whalley Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 4978 Details: Bramley Farm Wiswell Whalley Lancs Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SE (SE)	1983	1	375500 436800
	Water Abstractions Operator: P Riley Licence Number: 2671335020 Permit Version: 100 Location: Borehole At Wiswell Moor Farm, Sabden Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 4978 Details: Wiswell Moor Farm Sabden Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1997	1	375400 436700
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13NE (NW)	0	1	373993 438395
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 10 Central Lancashire Scale: 1:100 000	A13NE (NW)	0	1	373993 438395
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13NE (NW)	0	2	373993 438395
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (NW)	0	2	373993 438395
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				



Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Historical Landfill Sites Licence Holder: Not Supplied Location: Whalley Road Whalley Blackburn Lancashire Name: Barrow Lake Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07114 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 2300/0193 BGS Ref: Not Supplied Other Ref: K1/03/043	A13SW (S)	166	1	373957 438181
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	5	373993 438395
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	373993 438395



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Visean (Carboniferous Limestone Series)	A13NE (NW)	0	2	373993 438395
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NW)	0	3	373993 438395
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	0	3	374000 438395
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	161	3	374252 438137
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	189	3	374301 438135
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	282	3	374190 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	282	3	374123 438000

320120739P



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	288	3	374000 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	333	3	373993 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	336	3	374487 438143
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	378	3	374534 438144
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	444	3	374000 437876
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	498	3	374000 437819



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	498	3	373993 439000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	499	3	374000 439000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	602	3	374526 437783
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NE (SE)	639	3	374755 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	766	3	373000 438395
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A15NW (E)	819	3	375000 438395

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Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	827	3	375000 438162
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (E)	847	3	375000 438619
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	854	3	375027 438165
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (E)	864	3	375000 438680
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NW (E)	866	3	375000 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (W)	877	3	373000 438000



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	955	3	373000 439000
	BGS Estimated Soil Chemistry Source: British Geological Survey National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	999	3	374000 437299
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	2	373955 438443
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey National Geoscience Information Service	A13NE (NW)	0	2	373993 438395
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	2	373993 438395

320120739P



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Contemporary Trade Directory Entries Name: Walker Preservations Location: 13, Trafford Gardens, Barrow Clitheroe Lancashire BB7 9AX Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	88	-	373749 438338
30	Contemporary Trade Directory Entries Name: Healthy Option Pet Food Store Location: Whalley Rd, Barrow Clitheroe Lancashire BB7 9BA Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	172	-	373916 438666
31	Contemporary Trade Directory Entries Name: Whittle Eastern Europe Logistics Ltd Location: The Printworks Ribble Valley Enterprise Park Hey Road Barrow Clitheroe Lancashire, BB7 9WA Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	203	-	373964 438142
32	Contemporary Trade Directory Entries Name: Dick Leigh Location: Ashleigh, Clitheroe Road, Barrow, Clitheroe, Lancashire BB7 9AQ Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (SW)	753	-	373637 437679
33	Contemporary Trade Directory Entries Name: Whalley Catering Equipment Location: 1, Meadow Court, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9AE Classification: Catering Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	813	-	373678 437596
33	Contemporary Trade Directory Entries Name: Whalley Motor Location: 2, Meadow Court, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9AE Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	822	-	373675 437588
33	Contemporary Trade Directory Entries Name: J & L Auto S Location: Unit 3, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the address or location	A8SW (S)	832	-	373672 437578
33	Contemporary Trade Directory Entries Name: U K P E Location: Unit 3, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9WP Classification: Precision Engineers Status: Active Positional Accuracy: Manually positioned to the address or location	A8SW (S)	832	-	373672 437578
34	Contemporary Trade Directory Entries Name: Geeup Equine Laundry Location: Unit 2, Whalley Ind Pk, Clitheroe Rd, Barrow Clitheroe Lancashire BB7 9WP Classification: Laundry Equipment - Sales & Service Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	823	-	373606 437615
34	Contemporary Trade Directory Entries Name: Chaigley Coach Works Ltd Location: Unit 5, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9WP Classification: Horse Boxes & Transporting Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Carall Garments Location: Unit 1, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593



320120739P Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Contemporary Trade Directory Entries Name: British Tufting Supplies Location: Unit 4, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: T D Landrovers Location: Unit 8, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Cherry Automation Location: Unit 7, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: In Furniture Location: Unit 7, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Cleanchange Location: Unit 12, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9WP Classification: Janitorial Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: A & K Tyres Location: Unit 8, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Abbey Electronics Location: Unit 11, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: S P C N C Engineering Ltd Location: Unit 4, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9WP Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Adremit Location: Unit 2, Whalley Industrial Park Clitheroe Road, Barrow Clitheroe Lancashire BB7 9WP Classification: Air Purification Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Enhance Glass Solutions Location: Unit 1a, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9WP Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Contemporary Trade Directory Entries Name: Gee-Up Equine Location: Unit 2 Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9AH Classification: Laundry Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Lancer Labels Location: Unit 5 Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire BB7 9AH Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
34	Contemporary Trade Directory Entries Name: Clitheroe Plastics Centre Location: Unit 12, Whalley Industrial Park Clitheroe Road Barrow Clitheroe Lancashire, BB7 9WP Classification: Window Frame Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	841	-	373613 437593
35	Contemporary Trade Directory Entries Name: Wiswell Garage Location: Cunliffe Lane, Wiswell Clitheroe Lancashire BB7 9BT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	885	-	374670 437544
36	Fuel Station Entries Name: Co-Op Clitheroe Location: Ribble Valley Enterprise Park Clitheroe Lancashire BB7 9HW Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	18	-	374121 438292
37	Fuel Station Entries Name: Pendle Garage Location: Clitheroe Road Barrow Clitheroe Lancashire BB7 9AQ Brand: Gulf Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A7SE (SW)	873	-	373559 437575



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	Areas of Outstanding Natural Beauty Name: Forest Of Bowland Multiple Areas: Y Total Area (m2): 805733322.62 Designation Date: 29th February 1964 Source: Natural England	A10NW (SE)	932	4	375046 437934

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Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Hyndburn Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department	August 2011 March 2012 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	January 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	April 2012	Quarterly
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	April 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	April 2012	Monthly
Registered Radioactive Substances Environment Agency - North West Region	January 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	January 2012 January 2012	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	January 2012	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	January 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable



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Data Currency

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	December 2011	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2012	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2012	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2012	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2012	Quarterly
Flood Defences Environment Agency - Head Office	February 2012	Quarterly
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	January 2012	Quarterly
	January 2012	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	January 2012	Quarterly
	January 2012	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	October 2011	Quarterly
	October 2011	Quarterly
Local Authority Landfill Coverage Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	May 2000	Not Applicable
	May 2000	Not Applicable
	May 2000	Not Applicable
	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Pendle Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	April 2003	Not Applicable
	May 2000	Not Applicable
	May 2000	Not Applicable
	May 2000	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003	Not Applicable
	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003	Not Applicable
	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003	Not Applicable
	March 2003	Not Applicable



Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	December 2011	Bi-Annually
Explosive Sites Health and Safety Executive	December 2011	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Ribble Valley Borough Council Hyndburn Borough Council - Planning Pendle Borough Council - Planning Lancashire County Council	June 2011 March 2012 March 2012 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Ribble Valley Borough Council Hyndburn Borough Council - Planning Pendle Borough Council - Planning Lancashire County Council	June 2011 March 2012 March 2012 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2011	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified



Data Currency

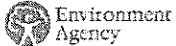
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	February 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2011	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribbles Valley Borough Council	May 2011 May 2011 May 2011	As notified As notified As notified
Areas of Unadopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribbles Valley Borough Council	May 2011 May 2011 May 2011	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	February 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	February 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	February 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	February 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2012	Bi-Annually
Special Areas of Conservation Natural England	February 2012	Bi-Annually
Special Protection Areas Natural England	February 2012	Bi-Annually

320120739P



Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

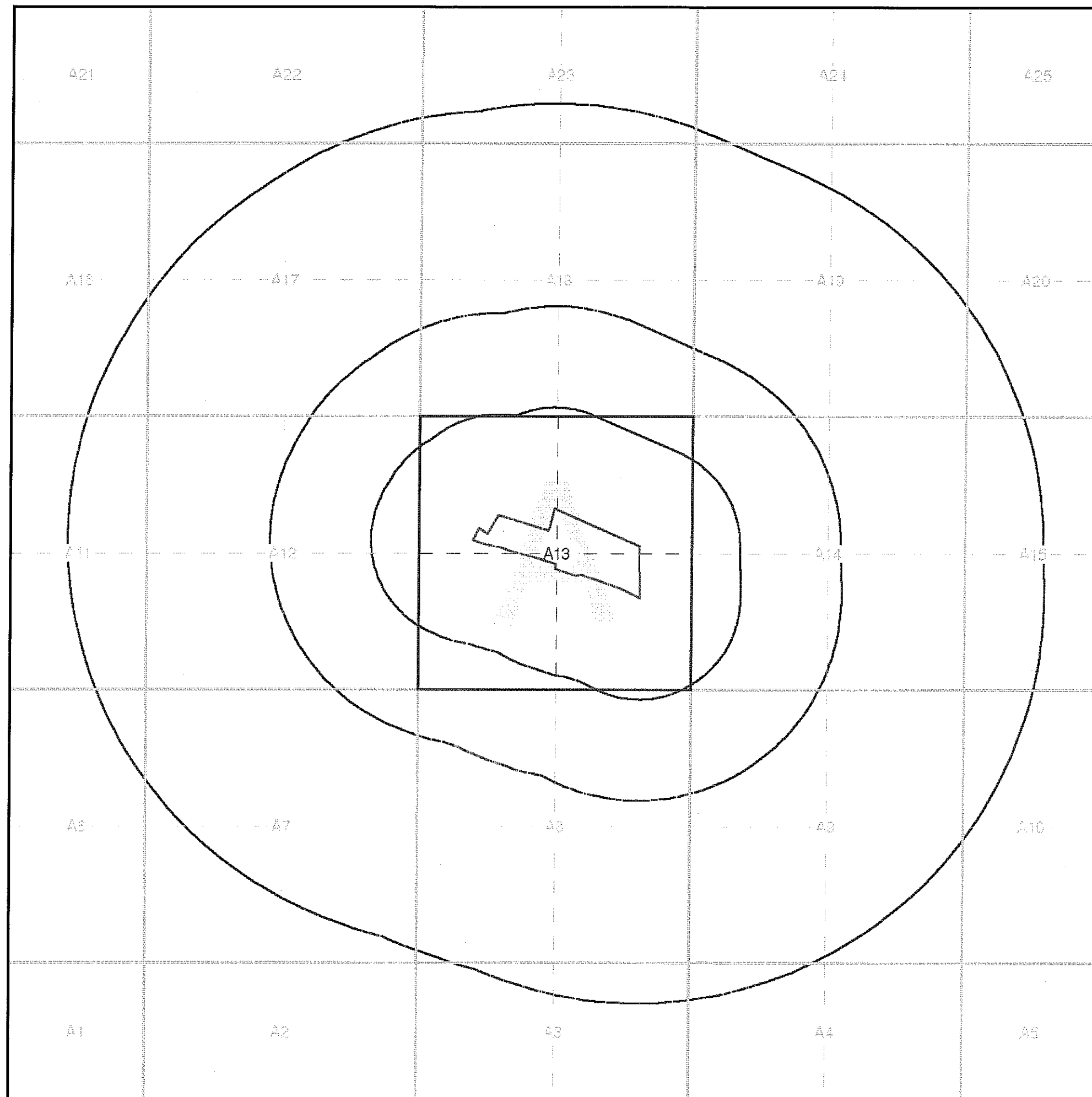


Useful Contacts

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544 Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre Keyworth, Nottingham Nottinghamshire NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	Landmark Information Group Limited 5 - 7 Abbey Court Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
4	Natural England Northminster House Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
5	Ribble Valley Borough Council - Environmental Health Department Council Offices Church Walk Clitheroe Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
6	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street Preston Lancashire PR1 8RD	Website: www.lancashire.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton Didcot Oxfordshire OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre Henley On Thames Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

320120739P



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:



Envirocheck reports are compiled from 136 different sources of data

320120739P

Client Details

Ms N Hughes, Opus International Consultants (UK) Ltd, 1-2 Aire House, Richmond Business Park Sidings Court, Doncaster, South Yorkshire, DN4 5NL

Order Details

Order Number: 38740843_1_1
Customer Ref: J-D0807 00
National Grid Reference: 374010, 438400
Site Area (Ha): 4.19
Search Buffer (m): 1000

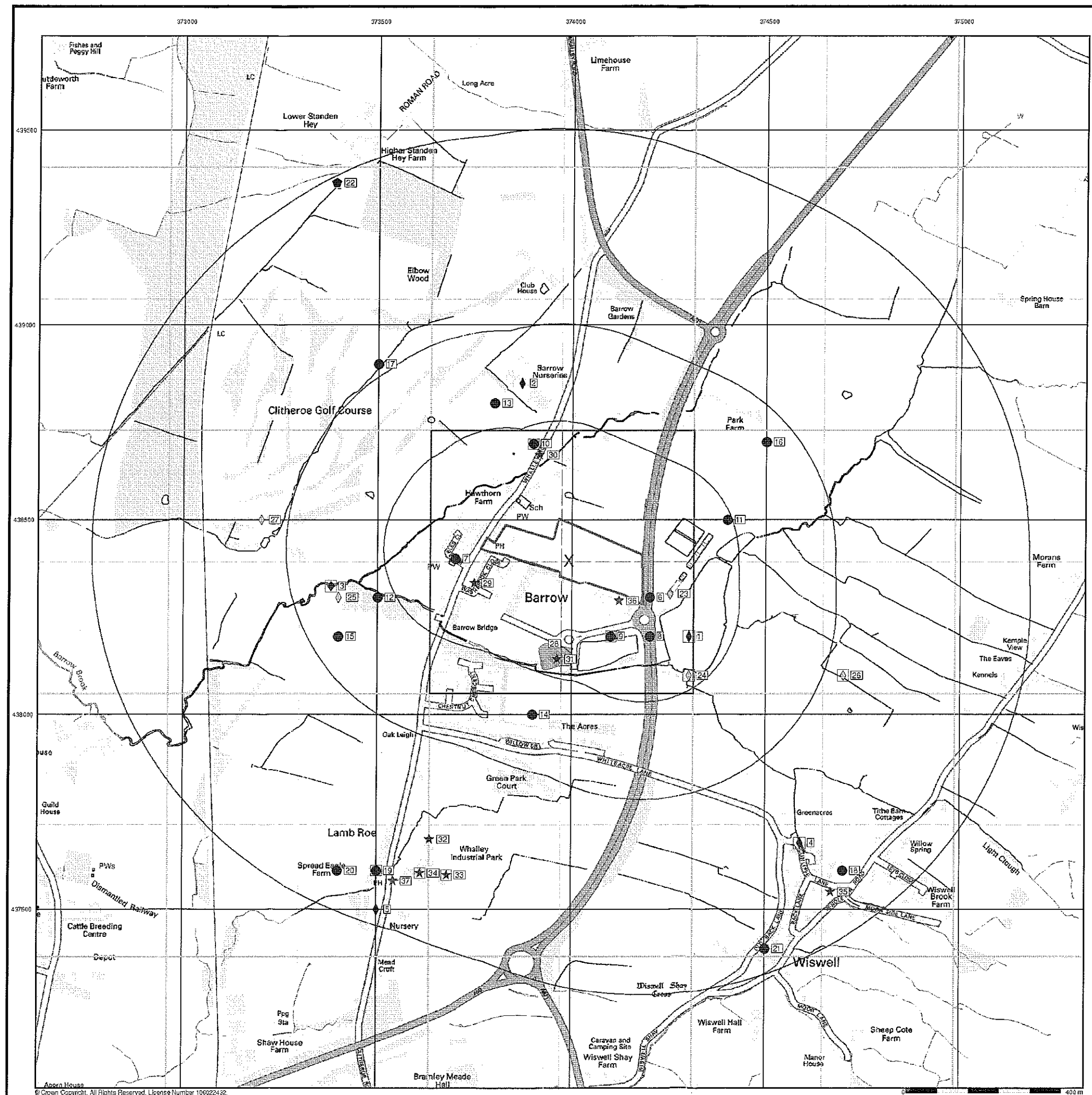
Site Details

King Charles 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/430>



Tel: 0844 844 9952
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General

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

Agency and Hydrological

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

Waste

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

Geological

- ▼ BGS Recorded Mineral Site

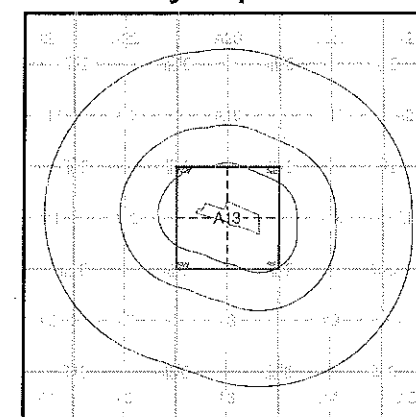
Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry

Hazardous Substances

- ✚ COMAH Site
- ✚ Explosive Site
- ✚ NIHS Site
- ✚ Planning Hazardous Substance Consent
- ✚ Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

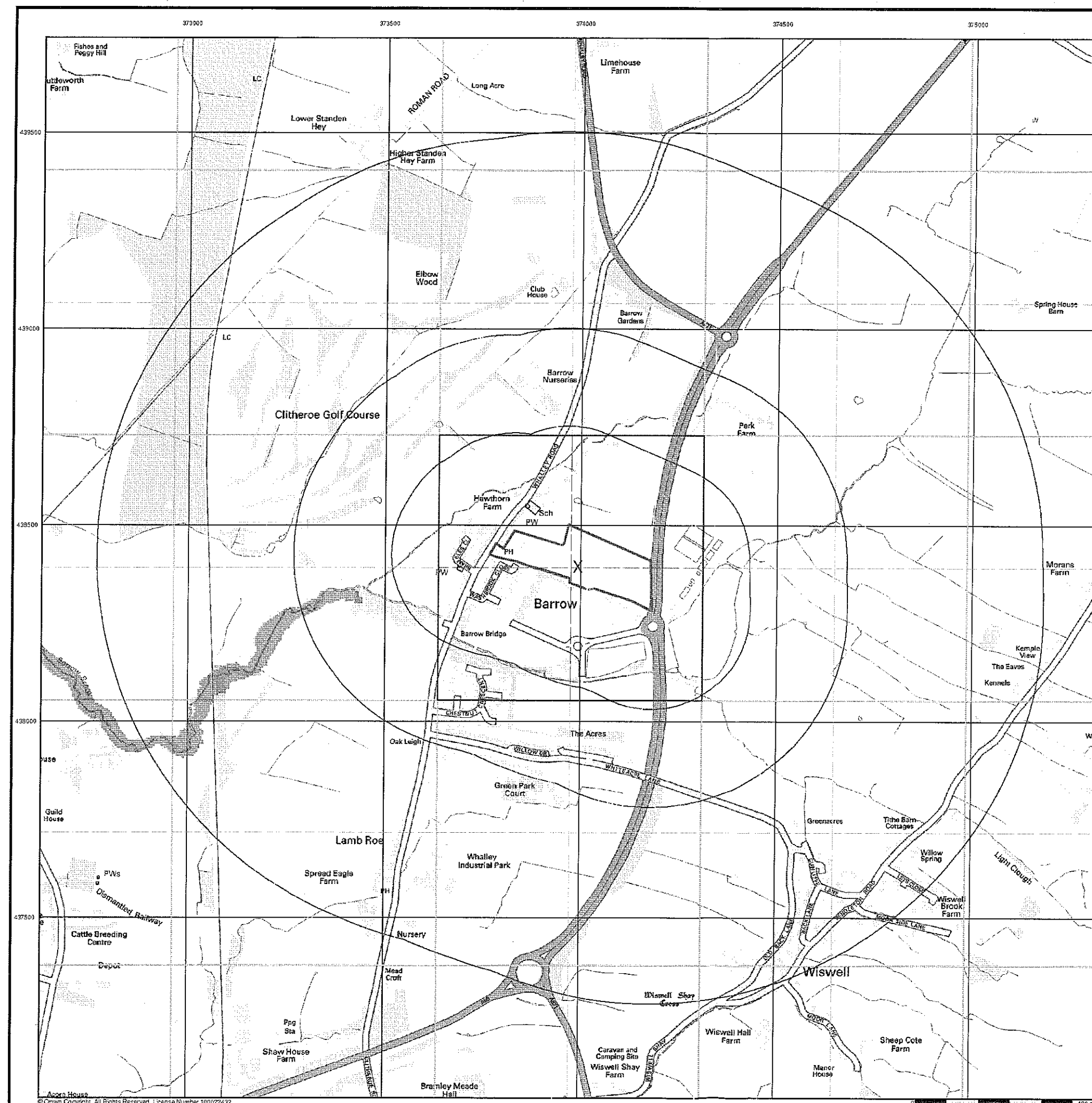
Order Number: 38740843_1_1
 Customer Ref: J-D0807 00
 National Grid Reference: 373990, 438390
 Slice: A
 Site Area (Ha): 4.19
 Search Buffer (m): 1000

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



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



General

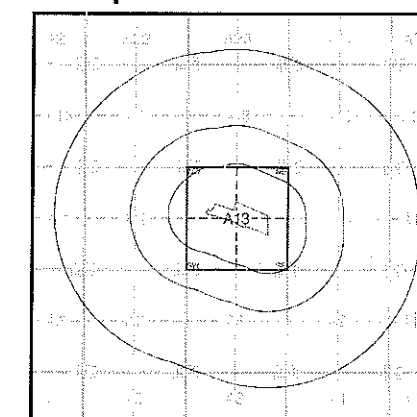
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

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

320120739P

Flood Map - Slice A



Order Details

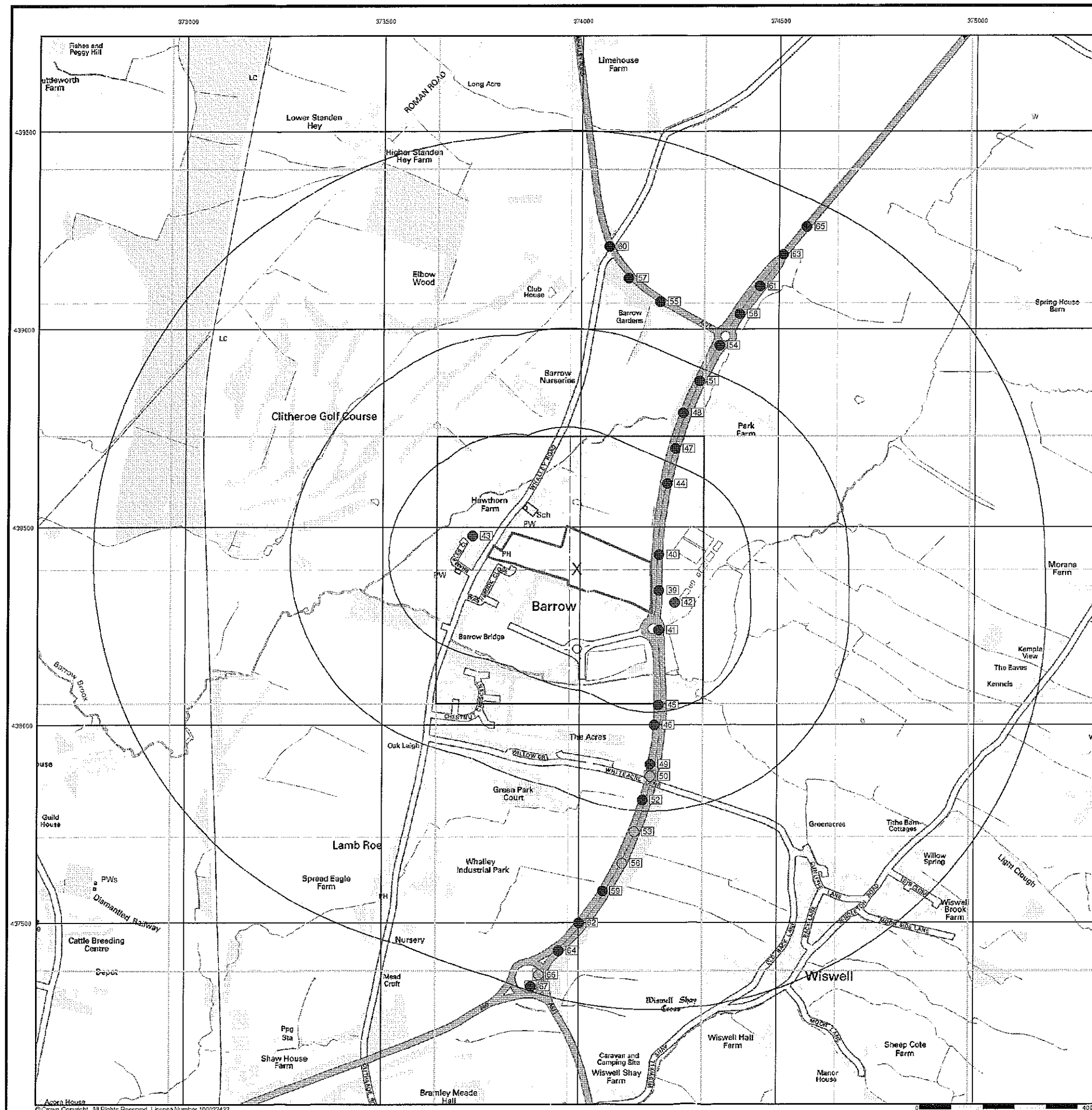
Order Number: 38740843_1_1
 Customer Ref: J-D0807 00
 National Grid Reference: 373990, 438390
 Slice: A
 Site Area (Ha): 4.19
 Search Buffer (m): 1000

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



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



General

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

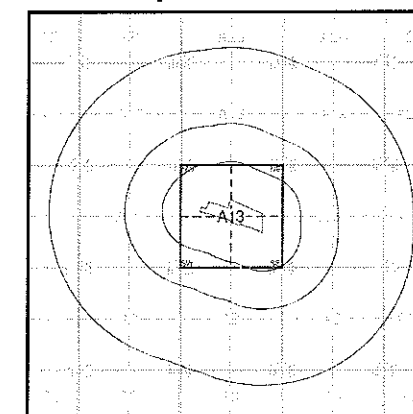
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 38740843_1_1
 Customer Ref: J-D0807 00
 National Grid Reference: 373990, 438390
 Slice: A
 Site Area (Ha): 4.19
 Search Buffer (m): 1000

Site Details

King Charles 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



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

OPUS

General

- Specified Site ○ Specified Buffer(s) X Bearing Reference Point 8 Map ID
□ Several of Type at Location

Agency and Hydrological

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

Waste

- ▼ BGS Recorded Landfill Site (Location)
□ BGS Recorded Landfill Site
● EA Historic Landfill (Buffered Point)
□ EA Historic Landfill (Polygon)
▲ Integrated Pollution Control Registered Waste Site
□ Licensed Waste Management Facility (Landfill Boundary)
● Licensed Waste Management Facility (Location)
▲ Local Authority Recorded Landfill Site (Location)
□ Local Authority Recorded Landfill Site
□ Registered Landfill Site
▲ Registered Landfill Site (Location)
▲ Registered Landfill Site (Point Buffered to 100m)
▲ Registered Landfill Site (Point Buffered to 250m)
● Registered Waste Transfer Site (Location)
□ Registered Waste Transfer Site
● Registered Waste Treatment or Disposal Site (Location)
□ Registered Waste Treatment or Disposal Site

Geological

- ▼ BGS Recorded Mineral Site

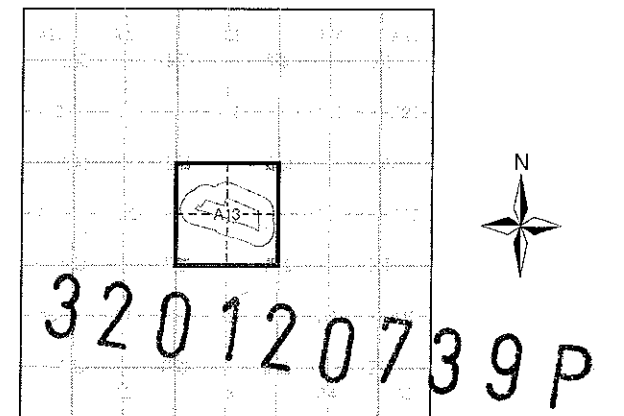
Industrial Land Use

- ★ Contemporary Trade Directory Entry
★ Fuel Station Entry

Hazardous Substances

- ✱ COMAH Site
✱ Explosive Site
✱ NHHS Site
✱ Planning Hazardous Substance Consent
✱ Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13



Order Details

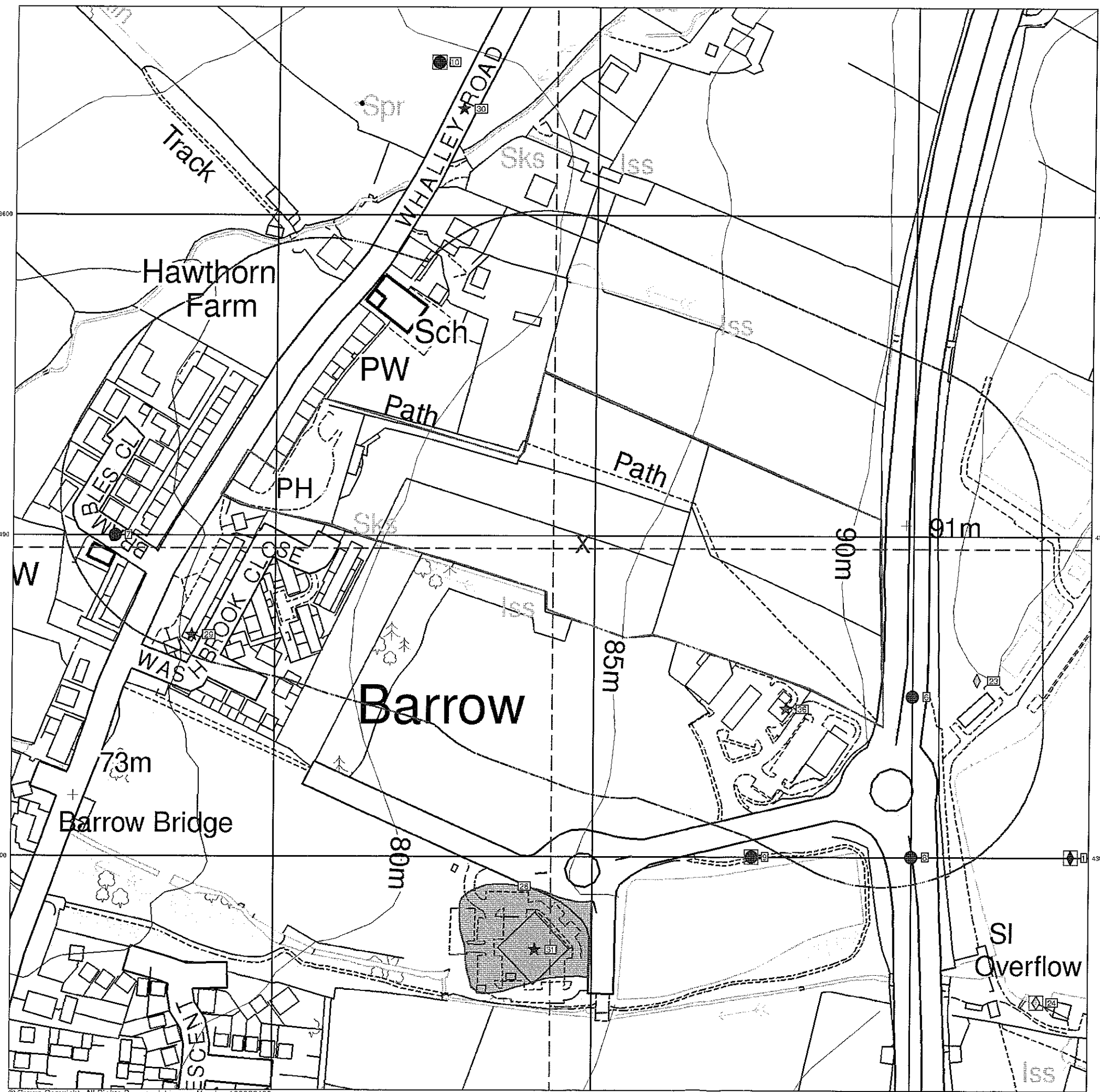
Order Number: 38740843_1_1
Customer Ref: J-D0807.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ

Landmark
Information Group

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



Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flendrian - Flendrian
	TILLD	Till Devensian	Damidon	Devensian - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PRMT	Permian Rocks and Triassic Rocks (Undifferentiated)	Sandstone and Mudstone	Triassic - Permian
	SDSH	Sabden Shales	Mudstone and Siltstone	Kinderscoutian - Kinderscoutian
	PG	Pendle Grit Member	Sandstone	Ambergian - Ambergian
	PG	Pendle Grit Member	Siltstone and Sandstone	Pendleian - Pendleian
	WWG	Wartley Wise Grit	Sandstone and Siltstone, Interbedded	Pendleian - Pendleian
	MG	Milstone Grit Group (See also Mgr)	Mudstone, Siltstone and Sandstone	Namurian - Namurian
	BSG	Bowland Shale Formation	Mudstone	Yeadonian - Asbian
	BOH	Hodderense Limestone Formation	Limestone	Holkerian - Holkerian
	RKM	Red Brook Mudstone Member	Mudstone	Holkerian - Holkerian
	PDL	Pendleside Limestone Formation	Limestone	Asbian - Holkerian
	PDL	Pendleside Limestone Formation	Mudstone	Asbian - Holkerian
	CLHOM	Clietheroe Limestone Formation and Hobbler Mudstone Formation (Undifferentiated)	Mudstone	Holkerian - Chadian
	HOM	Hobbler Mudstone Formation	Mudstone	Holkerian - Chadian
/		Faults		

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Geology 1:50,000 Maps

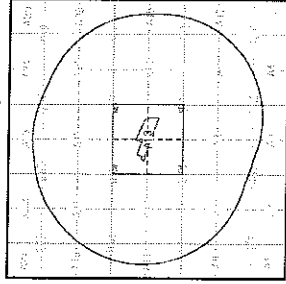
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but are all based on the final 'Continued Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	088
Map Name:	Clietheroe
Map Scale:	1:50,000
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Landslip:	Available
Rock Segments:	Available

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number: 38740843.1.1
Customer Reference: J-D0807.00
National Grid Reference: 373590, 436390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details:

King Charles, 23 Old Row (Whalley Road), Clltheroe, BB7 9AZ



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Fax: 0344 644 5521
Web: www.landmark.co.uk

V15.0 26-Apr-2012



Artificial Ground and Landslip

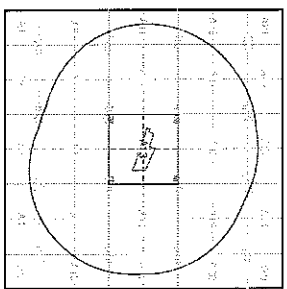
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Moved ground - areas where the ground has been cut away, then wholly or partially refilled with fill.
- Filled ground - areas where the ground has been cut away, then wholly or partially backfilled.
- Landcraped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

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

Artificial Ground and Landslip Map - Slice A



Order Details:

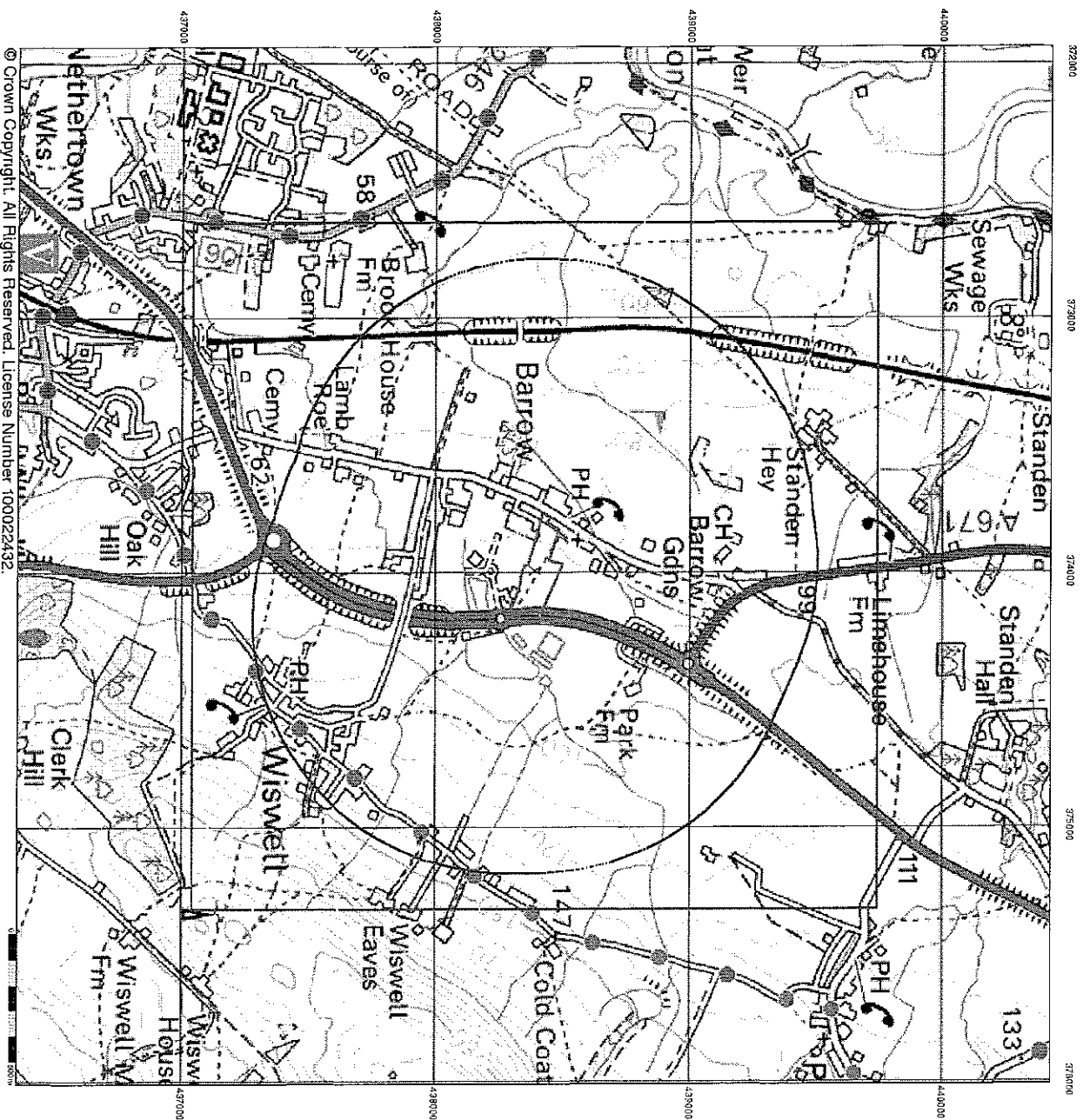
Order Number: 38740943_1_1
Customer Reference: J-D2807/00
National Grid Reference: 373990, 433300
Slice: A, 19
Site Area (Haj): 4.19
Search Buffer (m): 1000

Site Details:

King Charles, 23 Old Row (Whalley Road), Catterick, BB7 9NZ



Tel: 0344 844 8822
Fax: 0344 844 8821
Email: enquiries@landmark.co.uk





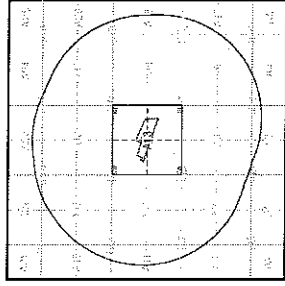
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

Order Number: 38740843, 1, 1
Customer Reference: JD0807, 00
National Grid Reference: 373890, 433030
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details:

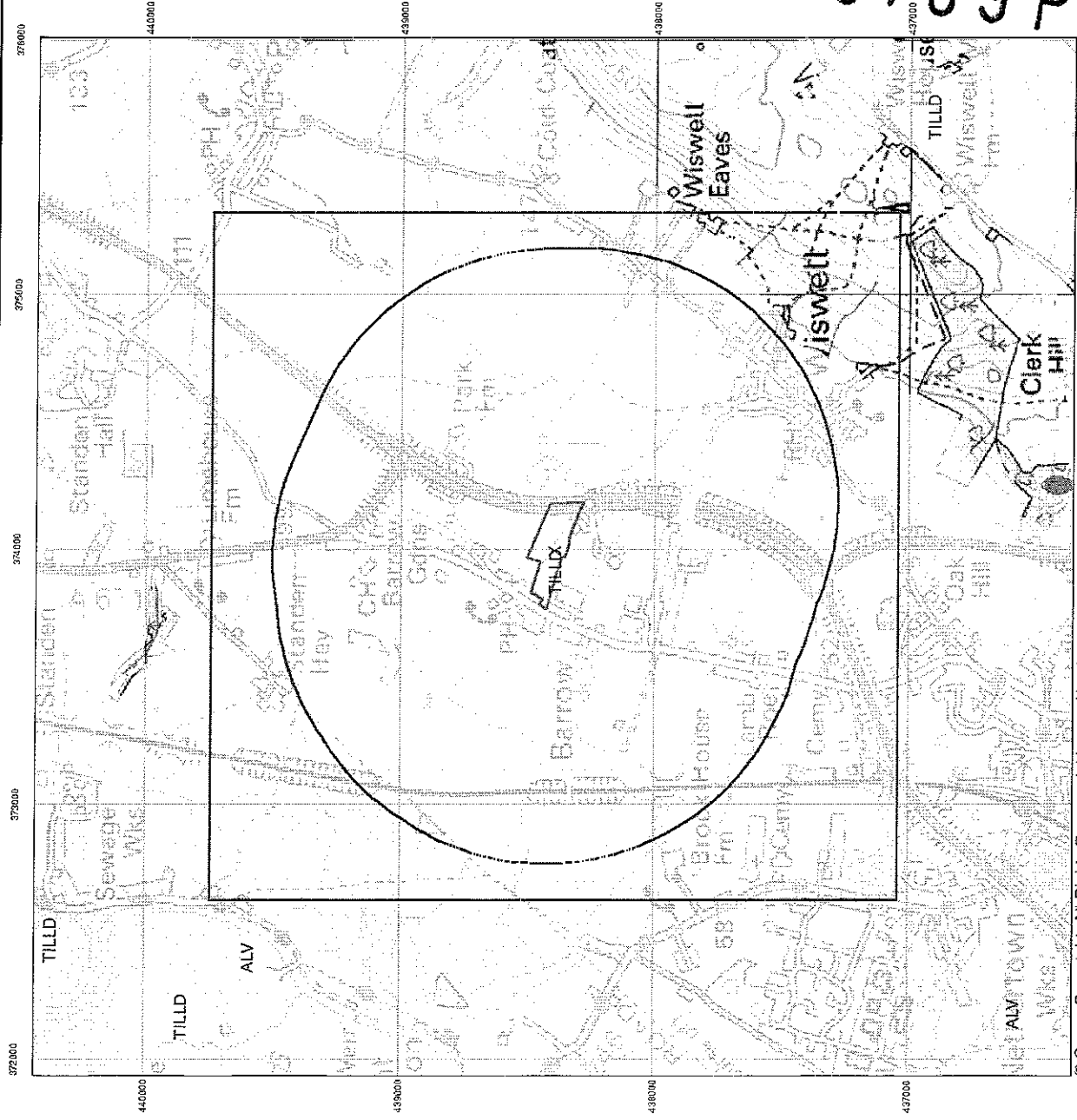
King Charles, 23 Old Row (Whalley Road), Clitheroe, B57 9AZ



Tel: 0344 844 8202
Fax: 0344 844 9261
Web: www.landmark.co.uk

v15.0 26-Apr-2012

Page 3 of 5



320120739P



Bedrock and Faults

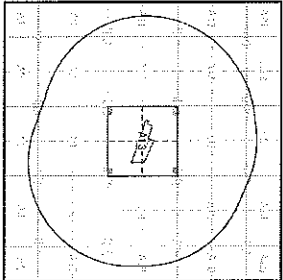
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 38740943_1_1
Customer Reference: 1-D0907.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details:

King Charles, 23 Old Row (Whalley Road), Clithorne, BB7 9AZ



014 04 0027
www.opusrock.co.uk



Combined Surface Geology

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

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

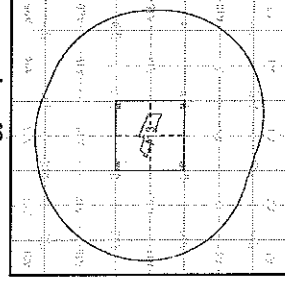
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 39740843 1.1
Customer Reference: J-D0007.00
National Grid Reference: 373990, 438390
Slice: A
Site Area (ha): 4.19
Search Buffer (m): 1000

Site Details:

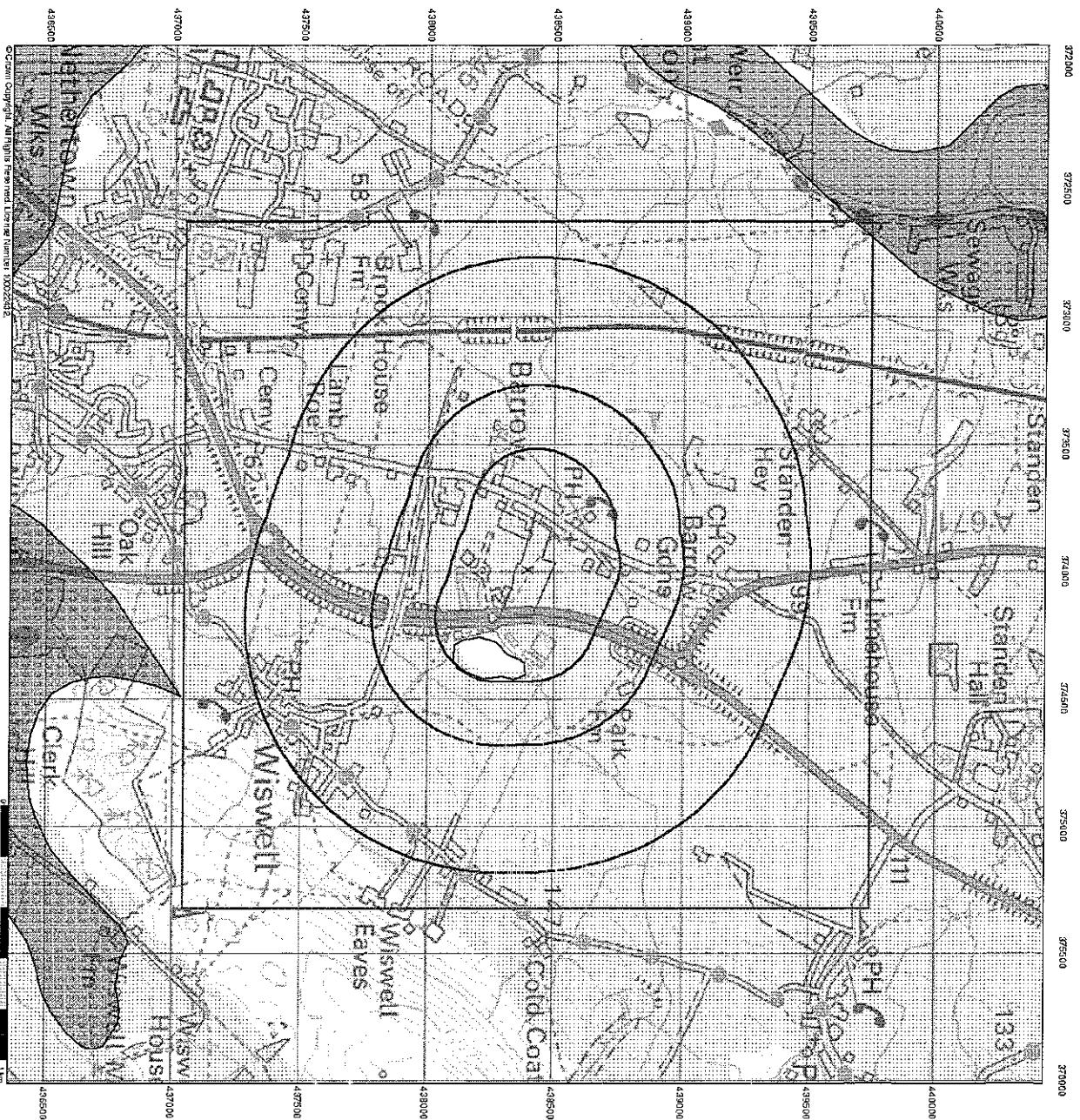
King Charles, 23 Old Row (Whalley Road), Clitheroe, B57 9AZ



Tel: 01494 641000
Fax: 01494 641001
Web: www.landmark.co.uk

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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Slightly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

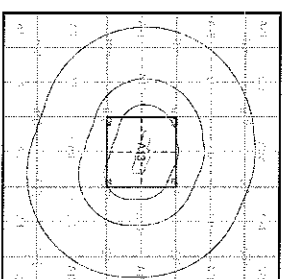
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 38740943_1_1
Customer Ref: J0080700
National Grid Reference: 373890, 433390
Site Area (H): A, 19
Search Buffer (m): 1000

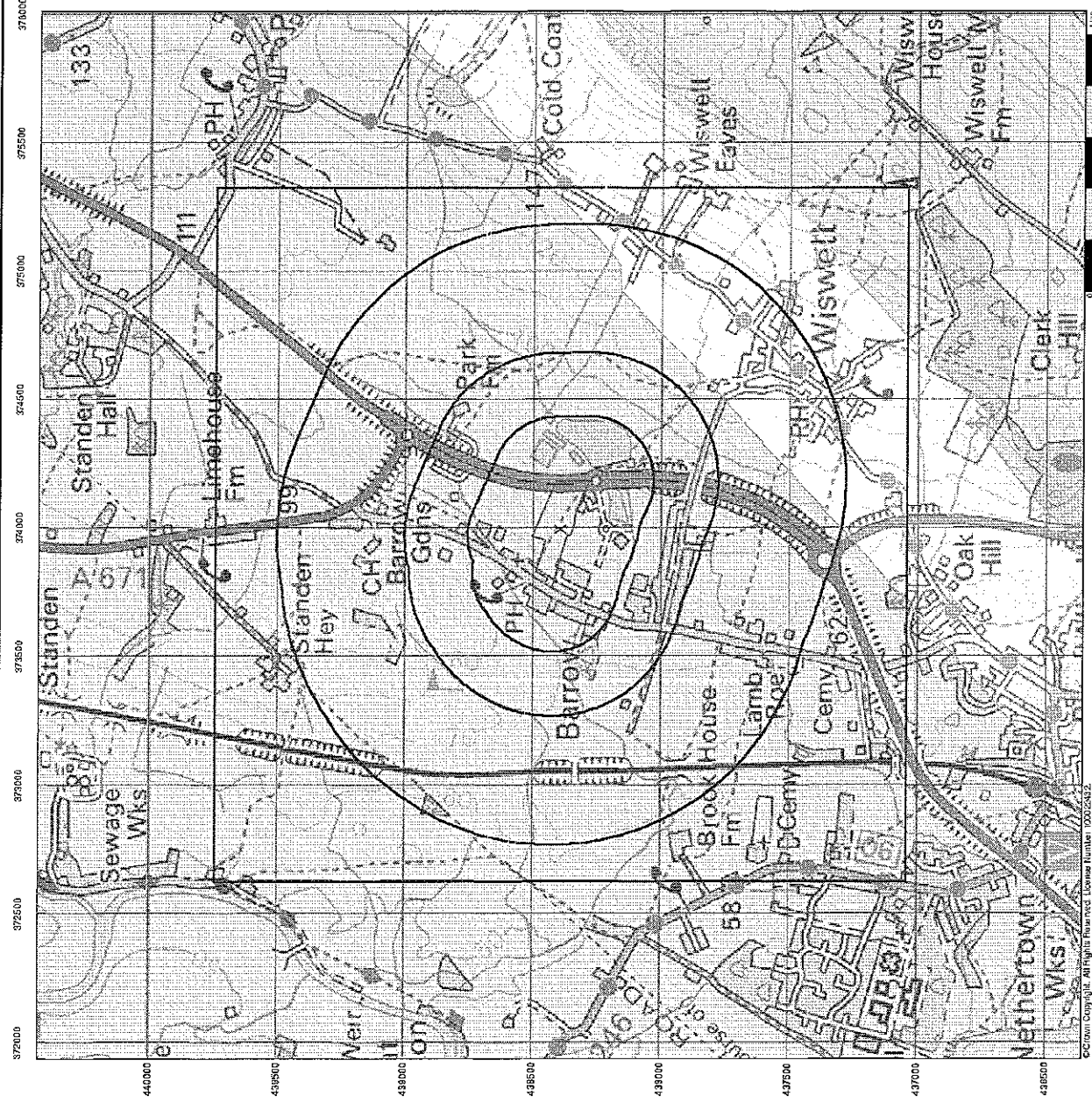
Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



Tel: 0844 644 992
Fax: 0844 644 993
Web: www.landmark.co.uk

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320120739P



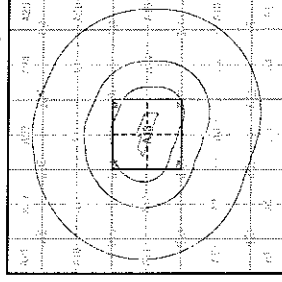
Bedrock Aquifer Designation

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

Agency and Hydrological

- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 38740843 1.1
Customer Ref: J-00007 00
National Grid Reference: 373990, 439390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ



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Fax: 0344 644 1051
Web: www.landmark.co.uk



Superficial Aquifer Designation

General

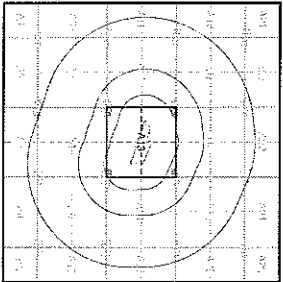
- Specified Site
- Specified Point(s)
- Beating Reference Point
- Site
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



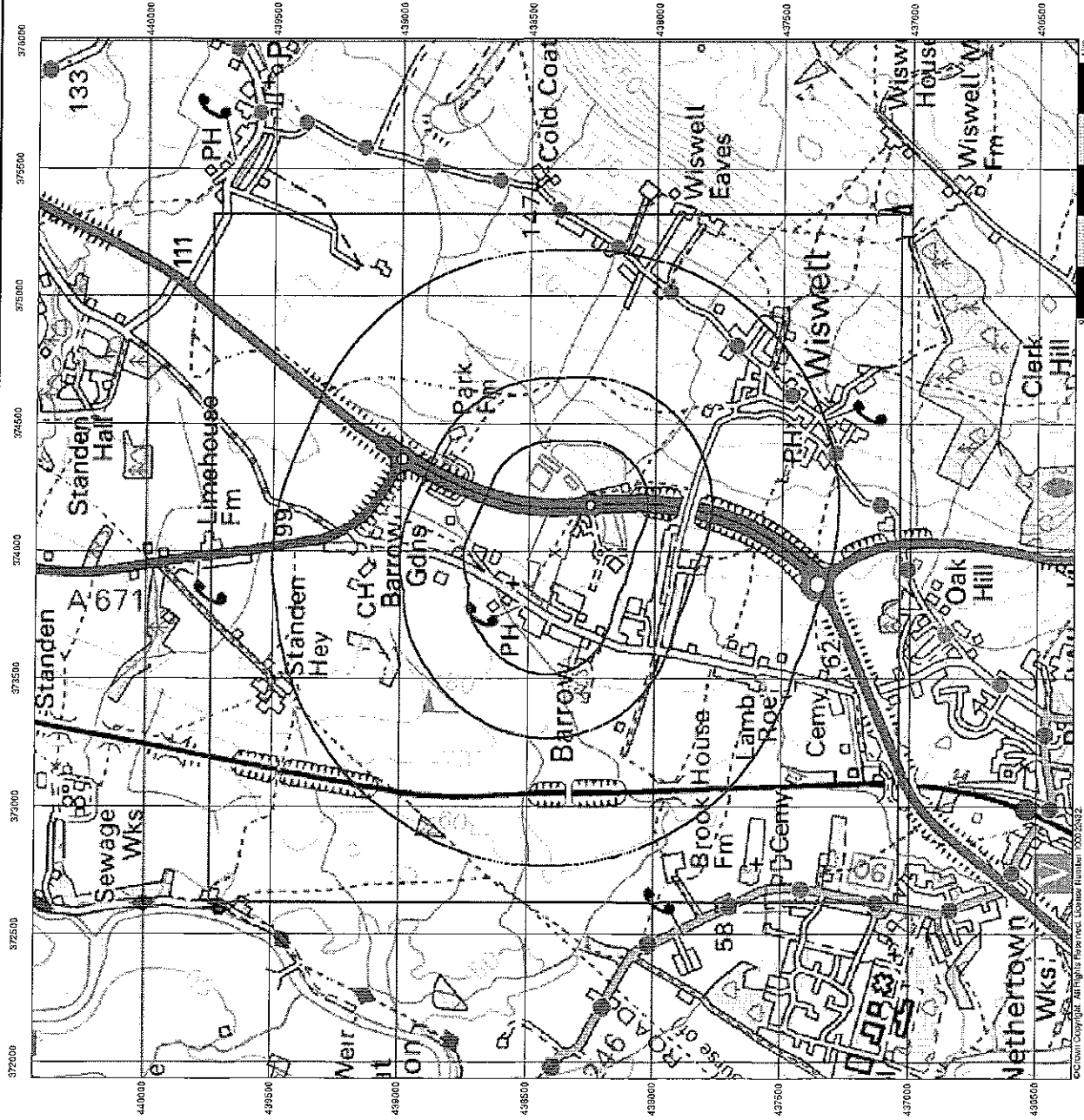
Order Details

Order Number: 36740843_1_1
Customer Ref: JLD907.00
National Grid Reference: 373990, 433390
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

King Charles, 23 Old Row (Whalley Road), Clitheroe, BB7 9AZ





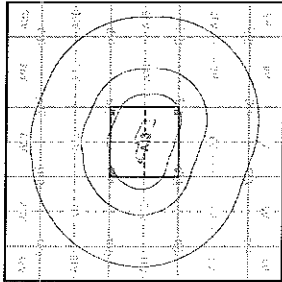
320120739P



Source Protection Zones

- General**
- Symbol: Scheduled Site
 - Symbol: Slice
 - Symbol: Specified Buffer(s)
 - Symbol: Map ID
 - Symbol: Bearing Reference Point
- Agency and Hydrological**
- Symbol: Source Protection Zone I
 - Symbol: Source Protection Zone II
 - Symbol: Source Protection Zone III
 - Symbol: Zone of Special Interest
 - Symbol: Source Protection Zone Boundary

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 38740843_1.1
Customer Ref: J-00807.00
National Grid Reference: 373590, 435350
Slice: A
Site Area (Ha): 4.19
Search Buffer (m): 1000

Site Details

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