

**HALTER INN WORKS
HOLCOMBE**

**PHASE 1 PRELIMINARY
RISK ASSESSMENT**



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Date: 6th February 2015
Ref: LKC 14 1496



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Document Verification

Site Address	Halter Inn Works, Holcombe, Ramsbottom, Bury, BL0 9SA		
Report Title	Phase 1 Preliminary Risk Assessment		
Job Number	LKC 14 1496	Document Ref.	CL-602-LKC 14 1496-01
Date Issued	6 th February 2015	Report Version	R0
Prepared By	Thomas Benson	Signature	
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1 INTRODUCTION

1.1 Background

LK Consult Ltd (LKC) has been commissioned by Finishing Techniques Ltd to carry out a Phase 1 Preliminary Risk Assessment (PRA) for Halter Inn Works, Holcombe. The report was undertaken in support of a planning application (Bury Council ref: 54975) to redevelop the site for a residential end use.

According to guidance set out in CLR11¹, GPLC1-3² and the National Planning Policy Framework (NPPF)³ a PRA with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk.

In accordance with current guidance the PRA will include a site reconnaissance, site history, geology, hydrogeology, hydrology, mineral search and a landfill search. Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site, which will support the identification and assessment of any pollutant linkages.

In addition, the information gathered will be used to identify potential geotechnical constraints associated with the redevelopment of the site.

Based on the findings of this report, an appropriate site investigation can be derived, if required.

1.2 Site Settings

A summary of site settings is presented in Table 1-1. Figures 1 and 2 indicate the site location and boundary. Figure 3 indicates the proposed development.

Location	Off Redisher Croft to the east of Bolton Road West, Holcombe, Lancashire. Centred at approximate National Grid Reference 377920E 415300N.
Area	700m ² .
Topography	Approximately 160 metres above ordnance datum (AOD). Site is approximately level.
Current Land Use	<u>Site</u> Small industrial building occupies the centre of the site with a hardstood concrete area in the south and a tarmacadam access road to the north of the building. <u>Surrounding Area</u> North: Wooded Area and Farmland East: Redisher Croft and Public House South: Residential Properties West: Wooded Area
Proposed Development	Residential dwellings including soft landscaping and car parking.

Table 1-1: Summary of site details for Halter Inn Works, Holcombe.

¹ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.

² EA (2010) "Guiding principles for land Contamination." GPLC1-3.

³ DCL (2012). "National Planning Policy Framework." Department of Communities and Local Government. March 2012.

2 SITE HISTORY

2.1 Historical Map Review

In compiling the site history, LKC consulted historical mapping provided by the Landmark Information Group Ltd. Copies of relevant historical plans are provided in Appendix A and are summarised Table 2-1. Notable features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be features within a 250m buffer that could be infilled historically.

Site Features	Location	Map Dates Present	Comments
Unreferenced buildings	East	1893-1968	- No longer present by 1978 mapping.
Reservoir	Northwest corner	1893-1912	- Part of larger adjacent reservoir is present across the northwest corner of the site. - Mapping indicates reservoir is at a higher level to the majority of the site. - No longer present by 1929 mapping; reservoir converted to a series of filter beds.
Wooded area	Southwest	1893-1912	- No longer present by 1929 mapping.
Unreferenced building	Centre	1978-2014	- Building currently occupied by a metal finishing works.
Surrounding Area Features	Distance/ Location	Map Dates Present	Comments
Cotton Mill	Adj to N	1893-1992	- No longer annotated as a Cotton Mill from 1937 mapping. - No longer present by 2004 mapping.
Public House	50m W	1893-2014	
Holcombe Brook	90m NW & 80m SE	1892-2014	- Section of brook assumed culverted below Holcombe Brook village centre. - Brook feeds into reservoir adjacent to northwest on 1893-1912 mapping. - Section to the northwest no longer present by 1929 mapping; assumed culverted.
Pond	200m SW	1893-1912	- No longer present by 1929 mapping.
Pond	200m S	1893-1968	- No longer present by 1978 mapping.
Filter Beds	Adj to NW	1929-1992	- Potentially associated with Redisher Bleach and Dye works, 150m NW of the site. - No longer annotated as Filter Beds by 1964 mapping. - Western portion of structure absent by 1978 mapping. - No longer present by 2004 mapping.
Garage	30m SE	1964-1992	- Building still present on 2014 mapping but not annotated as a garage. - Noted to be a residential property during the site reconnaissance.

Table 2-1: Summary of historical features for Halter Inn Works, Holcombe.

3 ENVIRONMENTAL SETTING

In compiling this Section, LKC consulted environmental information provided by the Envirocheck Report (Appendix B), British Geological Survey (BGS), the Coal Authority (Appendix C), Natural England and the Environment Agency. A summary is presented in Table 3-1.

Categories (data sources)			Details
Geology	Artificial ¹		- None recorded on site.
	Superficial ¹		- None recorded across north east of site. - Devensian Till recorded across the south west of site.
	Bedrock ^{1,2}		- Holcombe Brook Grit Sandstone. - 1 fault approximately 230m south of the site striking east-west.
	BGS logs ³		- None relevant within 250m.
Hydro-geology	Aquifer Designation	Superficial ¹	- Unproductive.
		Bedrock ¹	- Secondary A.
	Groundwater Abstractions ¹		- One within 500m: 495m N for a private water supply, licence is recorded as revoked.
Hydrology	Nearest Surface Water ¹		- Holcombe Brook 9m east, flowing west to east.
	Water Quality Data ¹		- 2m NE, Holcombe Brook – River Quality B.
	Flooding ¹		- No risk from rivers or sea.
	Surface Water Abstractions ¹		- None within 1km. Nearest is 1,147m SE, abstracted from the River Irwell for industrial process water at Greenleaf Enterprises Ltd.
	Discharge Consent ¹		- One within 250m: 4m SE, discharge of treated sewage to Holcombe Brook.
	Pollution Incidents ¹		- None within 250m. Nearest is 389m SE, treated sewage effluent to the River Irwell, Category 3 – Minor Incident.
Minerals / Mining	Coal Mining Development High Risk Area ⁴		- Not identified on site.
	Coal Report ⁵		- Not within the likely zone of influence from past coal workings. - No known coal mine entries present within, or within 20m of, the site boundary. - Reserves of coal exist in the area which may be worked in the future.
	Surface Extractions ¹		Two recorded mineral extraction sites within 500m: - 210m NW, Redisher Farm, opencast extraction of sandstone. - 312m NW, Redisher Wood, opencast extraction of clay and shale. Both operations are now listed as ceased.
	Cheshire Brine Compensation District ⁵		- Not within site area.

Table 3-1: Summary of environmental setting for Halter Inn Works, Holcombe.

Data Sources: 1 - Envirocheck Report (Appendix A and B); 2 - BGS Sheet 76 1:50,000; 3 - BGS GeoIndex <http://mapapps2.bgs.ac.uk/geoindex/home.html>; 4 - The Coal Authority Web Mapping Services (WMS) and Interactive Map Viewer <http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>; 5 - Coal Authority Report (Appendix C).

Categories (data sources)		Details
Ground Stability ¹ (on-site)	Collapsible Ground	- Very low hazard.
	Compressible Ground	- No hazard.
	Landslide	- Very low hazard.
	Running Sand	- No hazard.
	Shrinking / Swelling Clay	- Very low hazard.
	Ground Dissolution	- No hazard.
Landfill sites	Known/Registered ¹	- None within 250m; nearest is 483m E, Woodhey Dye Works, authorised waste is asbestos, construction and quarry wastes, licence is recorded as lapsed/cancelled/surrendered.
	Potential ¹	3 within 250m: - Reservoir adjacent to the NW of the site, potentially infilled by 1929 mapping. - 2no. ponds 200m, potentially infilled by 1929 and 1978 mapping.
Radon ¹		- Probability of <1% of homes above Action Level. No further action required.
Designated Sites ¹		- Site is part of Adopted Green Belt. - Redisher Wood Nature Reserve, 182m NW.
Contemporary Trade Directory ¹		- 3 within 100m; nearest onsite, Halter Inn Works (cabinet makers), Inactive. - Nearest active is 77m S, Carter Interiors (Blinds, Awnings and Canopies).
Fuel Station Entries ¹		- None within 100m.

Table 3-1 continued: Summary of environmental setting for Halter Inn Works, Holcombe.

4 SITE RECONNAISSANCE

A site reconnaissance was carried out on 12th January 2015. Hand dug trial holes were not undertaken due to extensive hardstanding and the current building occupying the site.

An annotated plan with photographs and pertinent features is provided in Appendix D.

Relevant features identified on site are summarised below:

- Existing L-shaped metal finishing works building present in the centre of the site.
- A concrete yard area currently used for car parking is present to the south east of the existing building. An IBC was noted to be present outside the building in this area.
- A tarmac drive is located to the north of the building. A steel container and a number of IBCs were noted to be present in this area.
- The site is topographically lower than the surrounding area to the north, south and west.
- A retaining wall is present to the rear (west) of the building and heavily vegetated ground rises up away from the site behind this wall.
- The land dips to the south east and an open section of Holcombe Brook is visible behind a wall adjacent to Redisher Croft.
- Manhole covers relating to a culverted natural watercourse were noted to be present to the north of the building onsite. From available surveys it is indicated that this watercourse discharges into Holcombe Brook to the south east of the site.
- The site is operational and is accessible off Redisher Croft. The rear of the building is not accessible to vehicles.

The surrounding area comprises:

- Redisher Croft and residential properties to the north.
- Unadopted road with a wooded area is present to the east. A Public House off Bolton Road West is beyond the wooded area.
- Residential properties off unadopted road to the south.
- Heavily vegetated land rises away from the site to the west.

5 PRELIMINARY CONCEPTUAL MODEL

5.1 Introduction

The aim of the conceptual model is to provide a preliminary assessment of the likelihood of a pollutant linkage for each potential combination of contaminant, pathway and receptor. A conceptual model can be used to make an informed decision on the contamination risks associated with the site and whether further site investigation work is required.

The Sections below are therefore divided into potential contaminant, potential pathway and potential receptor as described in CLR11⁴. The final Section provides an assessment of the potential pollutant linkages that may still be present on the site if redevelopment were to occur.

5.2 Potential Contaminants

Onsite

The site is currently occupied by a metal finishing works. It is not known what finishing techniques are applied at this works but generally potential contaminants from metal finishing works are mineral and organic acids, oils, organic solvents, electroplating metals and inorganic compounds such as cyanides, sulphates and chlorides⁵.

A corner of the north west of the site formerly constituted an embankment and section of a reservoir, raised above the current level of the site. Made ground associated with raising/levelling of the land is likely to be present and may contain ash or clinker. It is therefore possible that there could be some localised, low level heavy metal, sulphate and PAH contamination associated with this⁶. The ground conditions could not be confirmed during the site reconnaissance.

Former buildings on site may have been built with asbestos containing material (ACM) and this could therefore be present in made ground on site.

Cotton Mill adjacent off site

Typical contaminants associated with cotton mills⁷ include metals, other inorganic compounds (e.g. cyanides, sodium compounds, sulphide compounds, chloride compounds, mineral acids, alkalis), chlorinated organic solvents, sizing agents, other organic compounds (e.g. formaldehydes, polyvinyl chloride), water repellents (organo silicon, oxazoline), fire/flame retardants (e.g. borax, ammonium phosphate, brominated organic compounds with metals oxides), soaps and detergents.

Other ancillary activities could include coal fired boilers producing large quantities of boiler ash (heavy metals, sulphates and PAHs⁸), if powered by gas or oil there may historically have been fuel storage tanks. Asbestos may have been used within the building as insulation and lagging or as roofing and cladding.

⁴ Defra (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.

⁵ Department of the Environment. Industry Profile. Metal Manufacturing, Refining and Finishing Works. 1995.

⁶ Defra (2002). "Potential Contaminants for the Assessment of Land." R&D Publication CLR 8.

⁷ Department of the Environment. Industry Profile. Textile Works and Dye Works. 1995.

⁸ Defra (2002). "Potential Contaminants for the Assessment of Land." R&D Publication CLR 8.

Garage offsite

A garage was located 30m south of the site between 1964 and 1992 mapping. Typical contaminants associated with garages include heavy metals, petroleum hydrocarbons, solvents, ethylene glycol, PAHs and asbestos.

Given that the garage was at a lower topographical level to the site and with the intervening Till anticipated the garage is not considered to pose a significant risk to the site.

Potentially infilled ground off site

Potentially infilled ground has been identified within 250m of the site. This has the potential to generate hazardous gas (principally carbon dioxide and methane).

The potential for migration of hazardous gas can depend upon the age of the feature, volume of material, type of infill material, size of feature distance from the site and intervening geology.

5.3 Potential Pathways

The pathways are split into the migration of soil, water and gas.

Soil

This also includes soil-derived dust, vapours from the soil and the uptake of contaminants from the soil into flora / vegetables.

Principal potential pathways associated with human health from soil contamination are ingestion, dermal and inhalation. The current UK technical report document⁹ recognises ten such pathways comprising four ingestion, two dermal and four inhalation. These are listed as follows:

- | | |
|--|--|
| • Ingestion of soil | • Dermal contact with soil-derived indoor dust |
| • Ingestion of soil-derived indoor dust | • Inhalation of soil-derived outdoor dust |
| • Ingestion of contaminated vegetables | • Inhalation of soil-derived indoor dust |
| • Ingestion of soil attached to vegetables | • Inhalation of vapours outside |
| • Dermal contact with soil | • Inhalation of vapours inside |

The proposed end-use follows a standard conceptual model of residential.. For this land use scenario all ten of the pathways will have to be considered.

Soils may be within direct contact with receptors (e.g. building foundations, services).

Soils can also generate dust which could migrate via windblow to adjacent receptors.

Water

Surface water and groundwater are principal mechanisms for the migration of contaminants. The following pathways are considered possible:

- Surface run-off over impermeable surface.

⁹ EA (2008). "Updated Technical Background to the CLEA Model." Science Report – SC050021/SR3.

- Infiltration into the ground, through potentially contaminated material (contamination possibly going into solution).
- Migration through potentially permeable strata and preferential pathways (drains, sewers, culverts, faults).

The anticipated Till (superficial) recorded in the south west of the site is likely to be relatively impermeable and will significantly reduce the migration of potential contaminated waters. However, no superficial Till is recorded in the north east and therefore the migration of contaminated water may not be inhibited in this area.

The anticipated sandstone bedrock is likely to be relatively permeable and could act as a pathway to the migration of potential contaminated waters.

Evidence of a culvert and drains were noted during the site reconnaissance which could also act as preferential pathways.

Gas

Gas can migrate via the following potential pathways:

- Migration through potentially permeable strata and preferential pathways (drains, sewers, culverts, faults, mine workings).
- Migration into buildings (e.g. via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).

As discussed above, the geology and preferential pathways may act as pathways for gas migration and the superficial clay deposits in the south west may act as a barrier for migrating gas.

5.4 Potential Receptors

Potential receptors include:

- Human Health: future site residents, future site users, offsite land users.
- Controlled Waters: Holcombe Brook, 9m east and underlying Secondary A Aquifer.
- Buildings and structures.
- Potable water pipes.
- Flora within future gardens/landscaping.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance¹⁰) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

5.5 Preliminary Contamination Conceptual Model

The preliminary contamination conceptual model for Halter Inn Works, Holcombe is illustrated in Table 5-1 below and has identified seven generic potential pollutant linkages.

¹⁰ HSE (1991). "Protection of workers and the general public during development of contaminated land" London HMSO.

Each linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552¹¹.

In order to assess the potential risk for each pollutant linkage, an assessment of the magnitude of the potential consequence (severity) of the risk occurring and the magnitude of the probability (likelihood) of the risk occurring has been considered and classified. This is based on the guidance provided in CIRIA C552 and further details including a risk matrix is provided in Appendix E.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

¹¹ CIRIA (2001). "Contaminated land risk assessment: A guide to good practice". C552.

Pollutant Linkage	Pathway	Receptor	Contaminant (source)	Probability	Consequence	Risk	Assessment
PL1	-Dermal contact. -Inhalation of soil, fibres and dust. -Ingestion of soils, dust, vegetables, soil attached to vegetables. -Windblown dust.	-Future residents. -Site users. -Offsite receptors.	-ACM (former buildings, potentially in made ground).	Likely	Severe (ACM)	High	-Likely probability from ACM due to historic buildings on site and date of demolition. -Likely probability of heavy metals and PAHs given potential for ashy made ground on site due to land raising for adjacent reservoir. -Heavy metals may also be present in made ground from current use of the site as a metal finishing works. -Low risk assumed for hydrocarbons as significant source not identified. -Recommendation: Intrusive investigation required.
			-Heavy metals and PAHs (ash in made ground, metal finishing works).	Likely	Medium	Moderate	
			-Hydrocarbons: oils/fuels (metal finishing works onsite, cotton mill offsite)	Low	Medium	Moderate / Low	
PL2	-Inhalation of vapours. -Migration through permeable strata and preferential pathways.	-Future residents. -Site users.	Volatile Contaminants: -Fuels and solvents (metal finishing works).	Low	Medium	Moderate / Low	-Low probability as potential volatile contamination source is only from current works on site and only small scale leakages / spillages of volatile contamination anticipated. -Low risk assumed at this stage as significant source not identified and current site predominately covered by building and hardstanding, therefore infiltration will be reduced. -Recommendation: No intrusive work required unless evidence of volatile contaminants identified in the ground.
PL3	-Inhalation of gas. -Migration through permeable strata and preferential pathways. -Explosion in confined spaces.	-Current site users. -Future residents. -Buildings. -Offsite land users.	-Methane, carbon dioxide. (potentially infilled features 250m of the site).	Likely	Severe	High	-Likely probability due to viable source of gas identified (infilled reservoir) and sensitive nature of development (residential). -Recommendation: Gas monitoring required.
PL4	-Surface Run-off. -Migration through permeable strata and preferential pathways -Perched waters migration.	-Groundwater (Secondary A Aquifer). -Surface water (Holcombe Brook).	-Mobile contaminants (hydrocarbons and solvents from metal finishing works on site, cotton mill offsite).	Low	Medium	Moderate / Low	-Low probability as significant source of mobile contamination is not considered likely from current or historical site use. -Clay expected below part of site will inhibit migration. -Moderate risk assumed at this stage due to proximity of Holcombe Brook and potential culverted section below or adjacent to the site. -Recommendation: Intrusive investigation required.
PL5	-Sulphate attack on concrete.	-Building structure.	-Sulphate (ash identified in made ground).	Likely	Mild	Moderate / Low	-Likely probability as made ground likely to be present on site and ash considered likely which may be in contact with concrete used in future buildings. -Moderate risk assumed at this stage. -Recommendation: Intrusive investigation required
PL6	-Ingestion of tainted water supply.	-Future site users.	-Organic Contaminants (made ground).	Low	Medium	Moderate / Low	-Low probability as significant contamination not anticipated at pipeline depth (0.75-1.35m). -Risk is considered moderate at this stage due to unknown depth of made ground. -Recommendation: Intrusive investigation required if made ground present at pipeline installation depths.
PL7	-Direct Contact (plant uptake).	-Flora.	-Phytotoxic Contaminants (made ground).	Low	Minor	Very Low	-Low probability as contamination considered possible, which may be taken up by flora in soft landscaping / gardens. -Recommendation: Small scale investigation work as part of PL1.

Table 5-1 Contamination Conceptual Model for Halter Inn Works, Holcombe.

6 PRELIMINARY GEOTECHNICAL RISK ASSESSMENT

Superficial geology is mapped as Till in the south west of the site and is recorded as being absent in the north east. Bedrock is mapped as Holcombe Brook Grit Sandstone. Given the history of the site, there is the potential for significant made ground in the north and west of the site as land raising and subsequent levelling has been undertaken in the past.

The Envirocheck Report identified a very low hazard of collapsible ground, landslide and shrinking/swelling clay, and no hazard of compressible ground, running sand or ground dissolution.

The following need to be considered and investigated before any construction work commences:

- Deep made ground and / or relic in-ground structures (from former buildings) may be present on site which could affect groundworks (e.g. grubbing out of structures) and type of foundations required (e.g. deepening of foundations / pilling).
- The strength and variability of superficial deposits need to be confirmed. Till is anticipated in the south west of the site which is likely to be at least medium strength however softer ground / organic ground may reduce this strength. An allowable bearing pressure of the soils should be confirmed to allow the design of suitable foundations.
- The depth of groundwater and variability of the water table should be confirmed as shallow / fluctuating groundwater can affect the strength of the soil, particularly in granular ground.
- Plasticity of clay deposits should be confirmed, particularly where trees are present or proposed, to identify the shrinkability risk. A row of conifer trees are present along the northern boundary of the site and these are being retained as part of the proposed development.

Possible deepening of foundations due to clay shrinkability may be required near trees and the row of conifers on the northern site boundary.

7 SUMMARY CONCLUSIONS AND RECOMMENDATIONS

7.1 Summary Conclusions

The site was historically occupied by several unreferenced buildings between 1893 and 1968 mapping. The existing building was recorded on site from 1978 mapping. The north west corner of the site formed part of a larger raised reservoir between 1893 and 1912 mapping. Surrounding historic land use has included an adjacent cotton mill and a garage.

The site is currently occupied by a metal finishing works building in the centre of the site with a concrete hardstanding yard to the south and a tarmacadam drive to the north.

The proposed development is for the construction of 3no. residential houses with gardens and car parking.

Potential contamination sources affecting the site were identified as heavy metals, PAHs, sulphate, asbestos, hydrocarbons and gas (carbon dioxide and methane).

These contaminants may pose a risk to site users (via ingestion/dermal contact/inhalation pathways and explosion), controlled waters (via migration through permeable strata / preferential pathways), buildings and structures (direct contact and explosion), water pipes (direct contact) and flora (root uptake).

A contamination conceptual model has been produced by LKC. This has identified the following risks summarised in Table 7-1. Where a moderate / low risk was identified, the assumed risk at this stage has been shown.

Pollutant Linkage		Risk	Further Action Required
1	Non-volatile contaminants posing a risk to site users via dermal contact, ingestion and inhalation (of soil, dust, fibres and vegetables).	High (ACM)	-Former buildings may have contained ACM.
		Moderate (PAHs, metals)	-Made ground is anticipated on site and is likely to contain ash and clinker.
		Low (hydrocarbons)	-Investigation work required.
2	Volatile contaminants posing a risk to site users via the inhalation of vapours.	Low	-No significant volatile source identified. -Investigation work required if evidence of volatile contamination identified.
3	Gas posing a risk to buildings and site users via the migration of gas into building causing explosion and asphyxiation.	High	-Infilled features within 250m of the site. -Gas monitoring required.
4	Mobile contamination posing a risk to controlled waters via the migration through permeable strata.	Moderate	-Moderate risk assumed due to proximity of surface water. -Investigation work required.
5	Sulphate posing a risk to building via direct contact (sulphate attack).	Moderate	-Ash noted in trial holes. -Investigation work required.
6	Organic contaminants posing a risk to water pipes.	Moderate	-Potential contaminants that may infiltrate pipe work identified in CSM. -Investigation work required.
7	Phytotoxic Metals posing a risk to flora via root uptake.	Very Low	-Ash noted in trial holes. -Limited investigation work recommended as part of PL1.

Table 7-1: Risk table for Halter Inn Works, Holcombe.

The preliminary geotechnical assessment has also identified the following potential risk which will need to be investigated:

- Unknown strength of soils for foundation design.
- Possible deep made ground with in-ground structures.
- Depth of groundwater and fluctuating groundwater table.
- Plasticity of clay deposits to determine shrinkability risk near trees.

7.2 Recommendations

It is recommended that to support the planning application for this development, a Phase II intrusive survey should be carried out across the site to investigate the seven identified potential pollutant linkages further.

In order to address the identified potential pollutant linkages a site investigation is recommended. The site investigation should be carried in accordance with relevant guidance documents (including BS10175¹² and BS5930¹³).

The investigation should include trial pits and / or boreholes at a sampling density of 1 sample per 25-50m square centres for an exploratory investigation and 1 sample per 10-25m square centres for a main investigation. In addition, targeted sampling locations should be undertaken in areas of concern (e.g. area of former reservoir).

Soil samples should be collected from the trial pits / boreholes and tested for contaminants of concern based on the preliminary conceptual model and field observations (PID tests and visual / olfactory evidence).

In order to address potential pollutant linkage 3 (gas risk) gas monitoring is recommended.

Boreholes drilled on site should be installed with monitoring wells. Monitoring should be undertaken in accordance with CIRIA C665¹⁴. As a minimum gas monitoring would likely be over a three month period with at least six gas monitoring visits under worst case temporal conditions.

In order to address pollutant linkage 4, groundwater samples should be collected from boreholes (monitoring wells). If no groundwater is present, soils can be subjected to leachability tests. Samples should be tested for contaminants of concern based on the preliminary risk assessment, field observations and results of the soil analysis.

It should be noted that boreholes and / or trial pits may also be utilised to provide appropriate geotechnical information on sub-surface conditions.

This investigation, in conjunction with appropriate geotechnical testing, will identify and characterise any contaminants encountered. Information from this investigation can then be used to provide a more detailed assessment of the identified pollutant linkages, provide appropriate foundation solutions and, if necessary, identify appropriate remedial measures to ensure that the site is made suitable for its proposed end use.

LKC recommend that any remedial works or further assessment works undertaken at the site are suitably validated and supporting information documented in a Site Completion

¹² British Standard (2011). "Investigation of Potentially Contaminated Sites – Code of Practice." BS10175:2011.

¹³ British Standard (1999). "Code of Practice for Site Investigations." BS5930:1999.

¹⁴ CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings." CIRIA C665.

Report. This report will aid Bury Council in the discharge of the appropriate planning conditions.

LKC would recommend that a copy of this report is forwarded to Bury Council for the approval of the above recommendations before the commencement of any works on the site. LKC would advise that a more detailed site investigation proposal also be provided to the Local Authority for their approval.

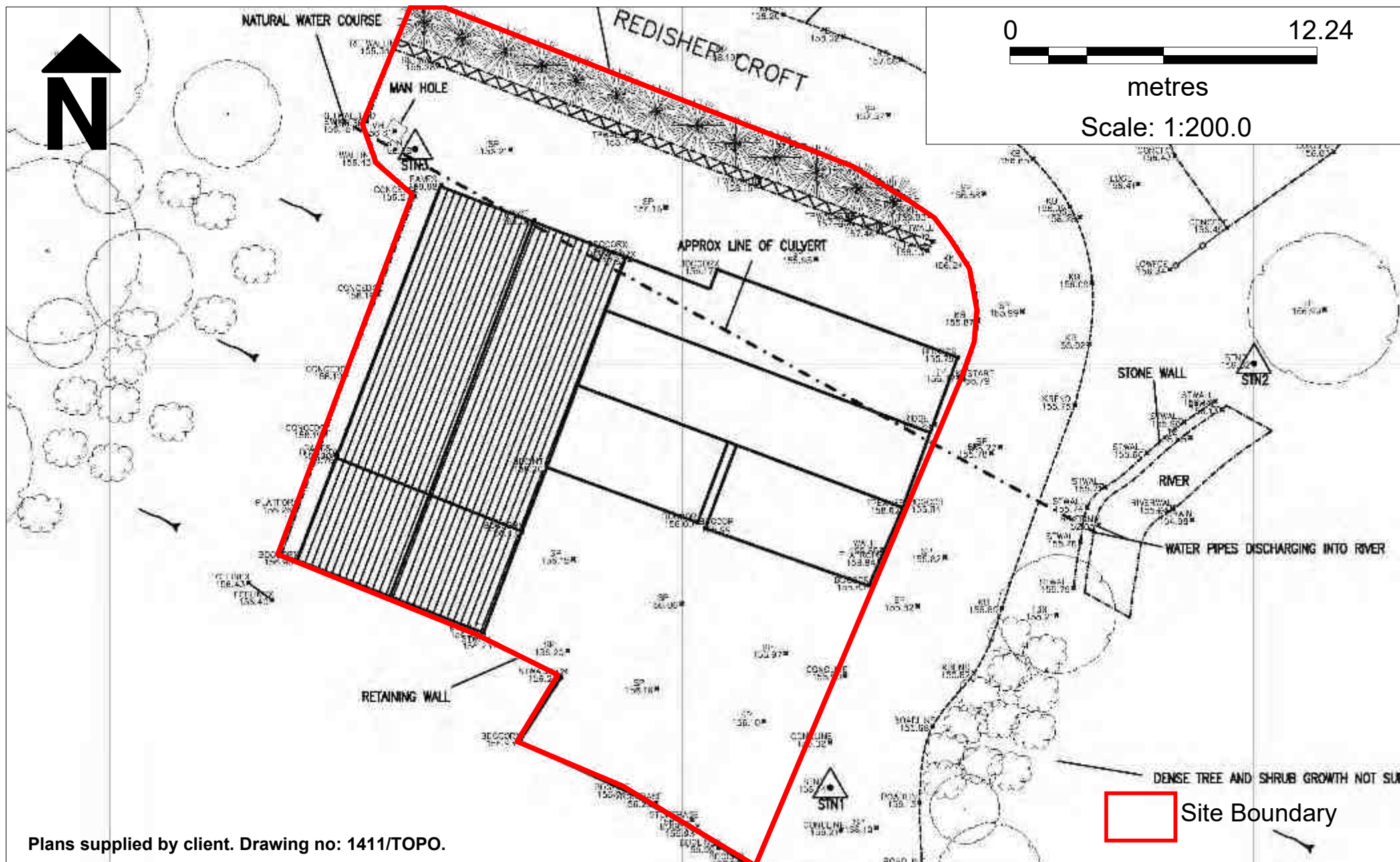
FIGURES



Figure 1: Site Location Plan, Halter Inn Works, Holcombe

Drawn: January 2015 Scale: 1:25,000 @ A4 (see scale bar)





Plans supplied by client. Drawing no: 1411/TOPO.

Figure 2: Site Boundary Plan, Halter Inn Works, Holcombe

Drawn: January 2015 Scale: See Scale Bar (approx 1:200 @ A4)

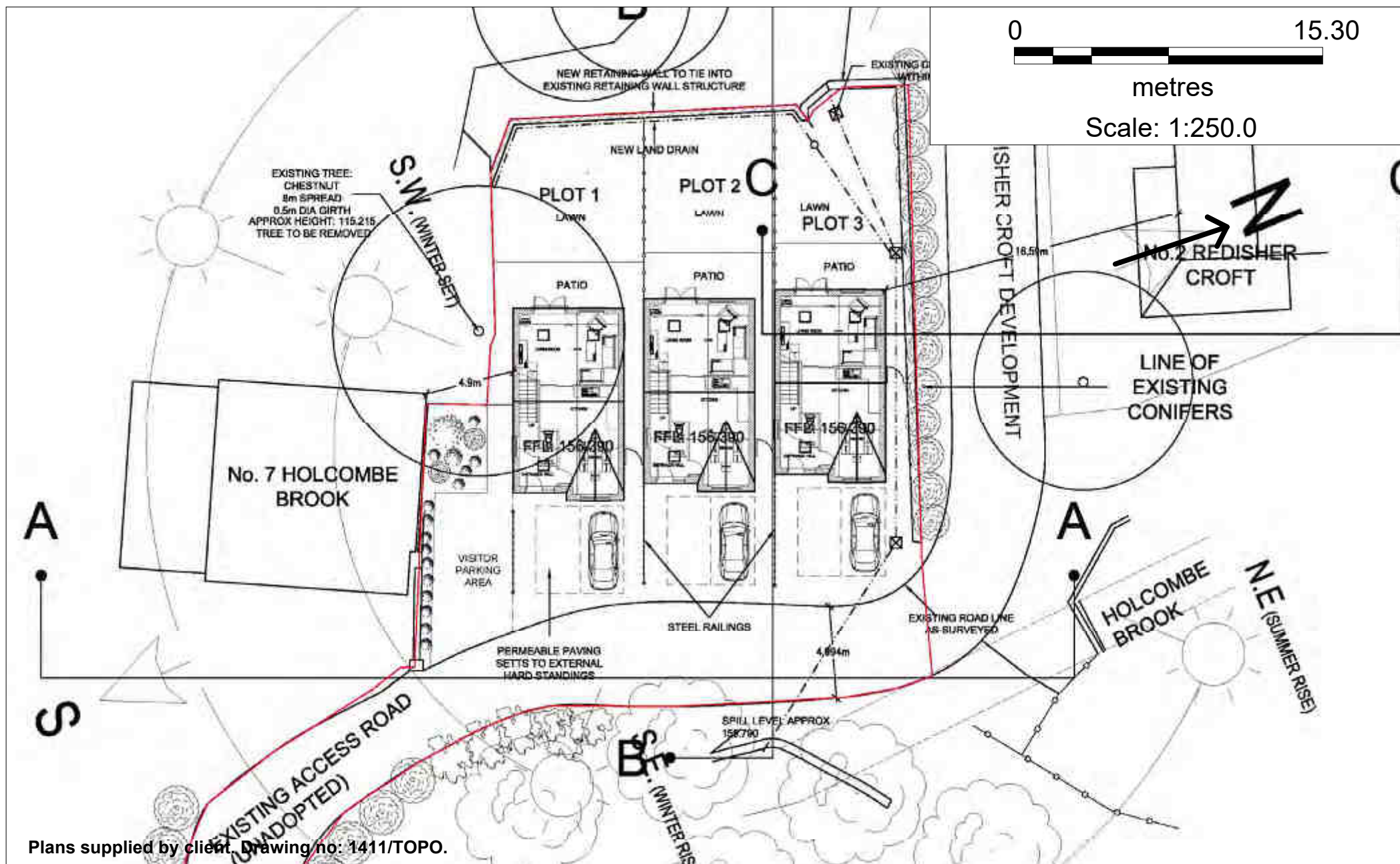


Figure 3: Proposed Development Plan, Halter Inn Works, Holcombe

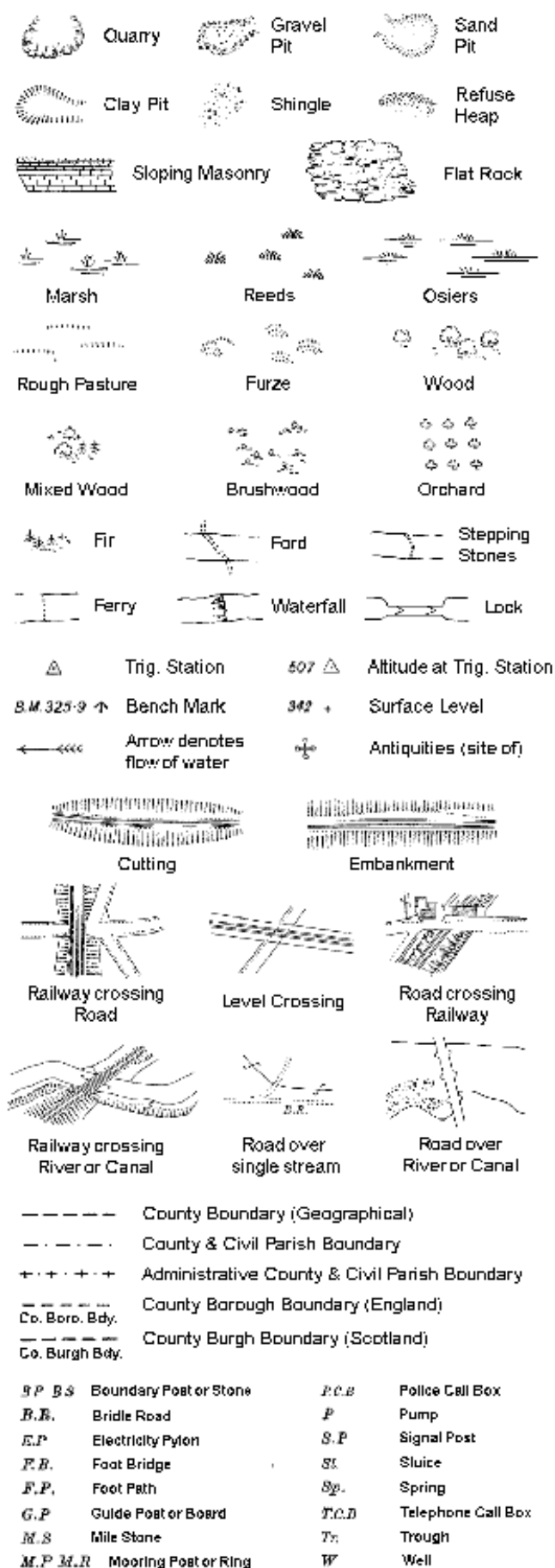
Drawn: January 2015 Scale: See Scale Bar (approx 1:250 @ A4)

APPENDIX A

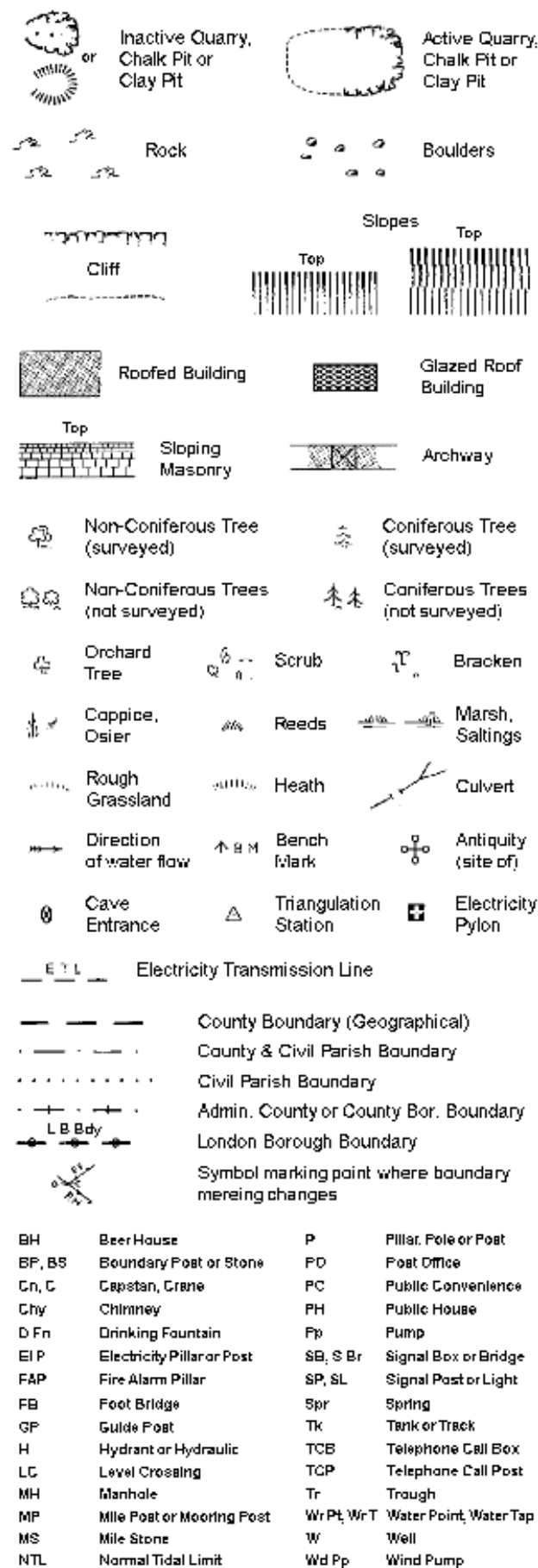
HISTORICAL MAPS

Historical Mapping Legends

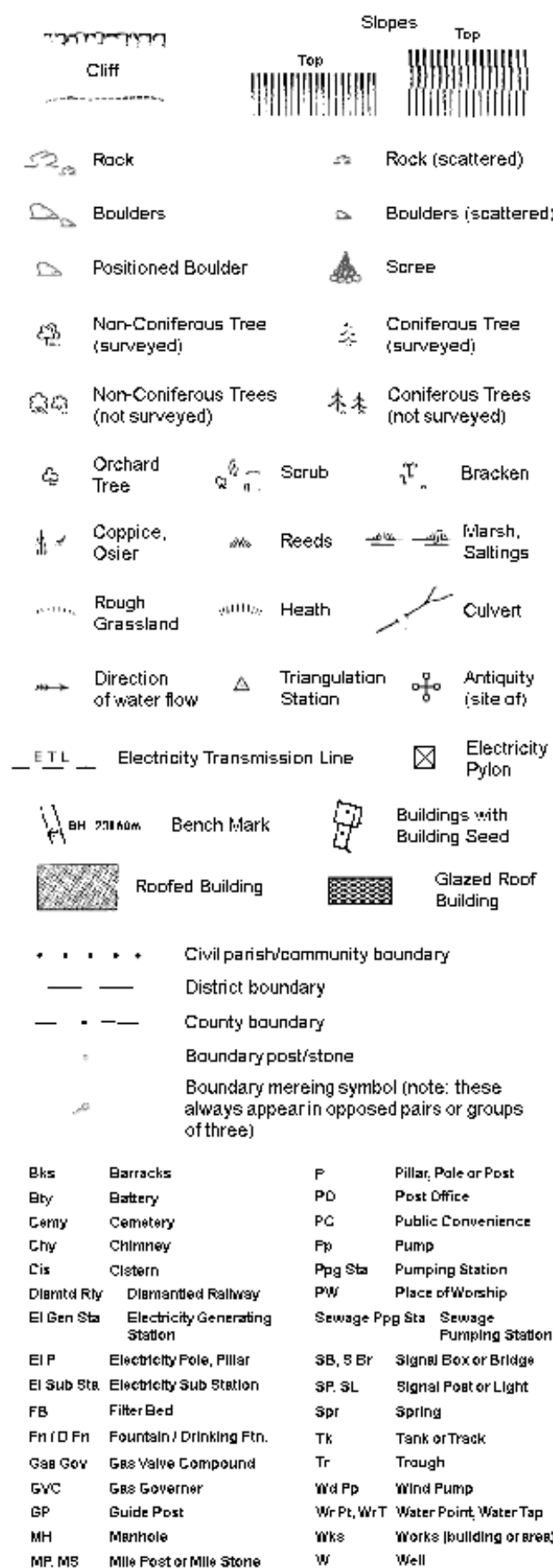
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



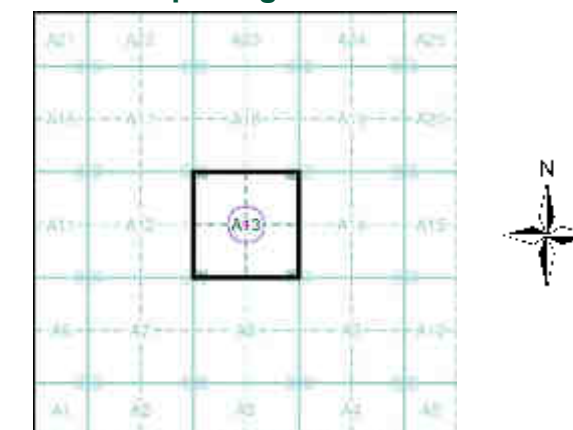
Large-Scale National Grid Data 1:2,500 and 1:1,250



LK CONSULT LIMITED Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1929	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:2,500	1963 - 1964	6
Ordnance Survey Plan	1:2,500	1971	7
Ordnance Survey Plan	1:1,250	1977 - 1978	8
Additional SIMs	1:1,250	1983 - 1989	9
Additional SIMs	1:2,500	1988	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1993 - 1995	12

Historical Map - Segment A13



Order Details

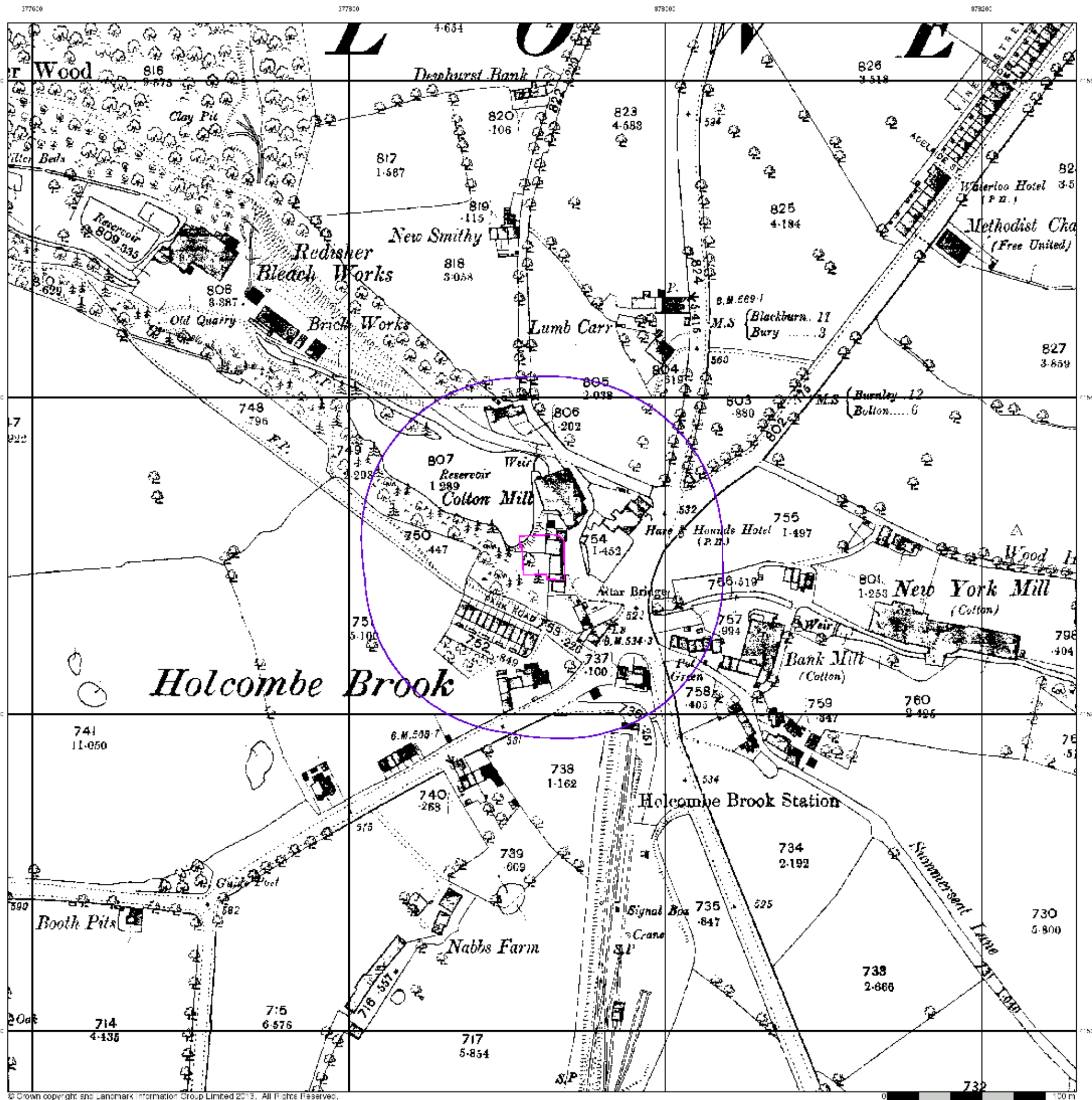
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 100

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
 Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



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



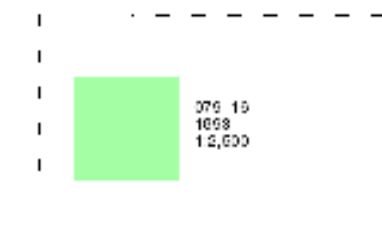
LK
CONSULT LIMITED
Lancashire And Furness

Published 1893

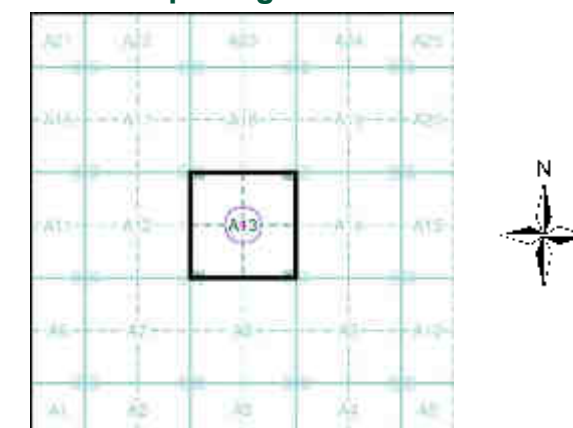
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

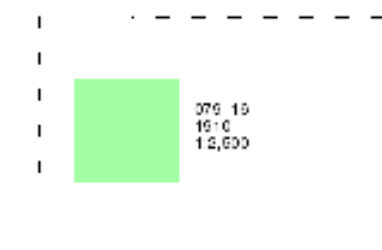
Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA

Landmark
Information Group

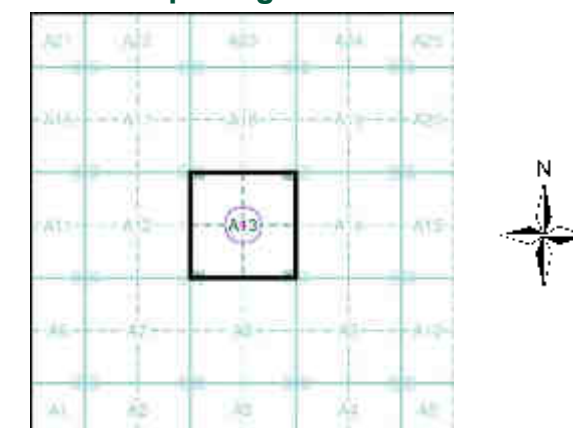
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)



Historical Map - Segment A13

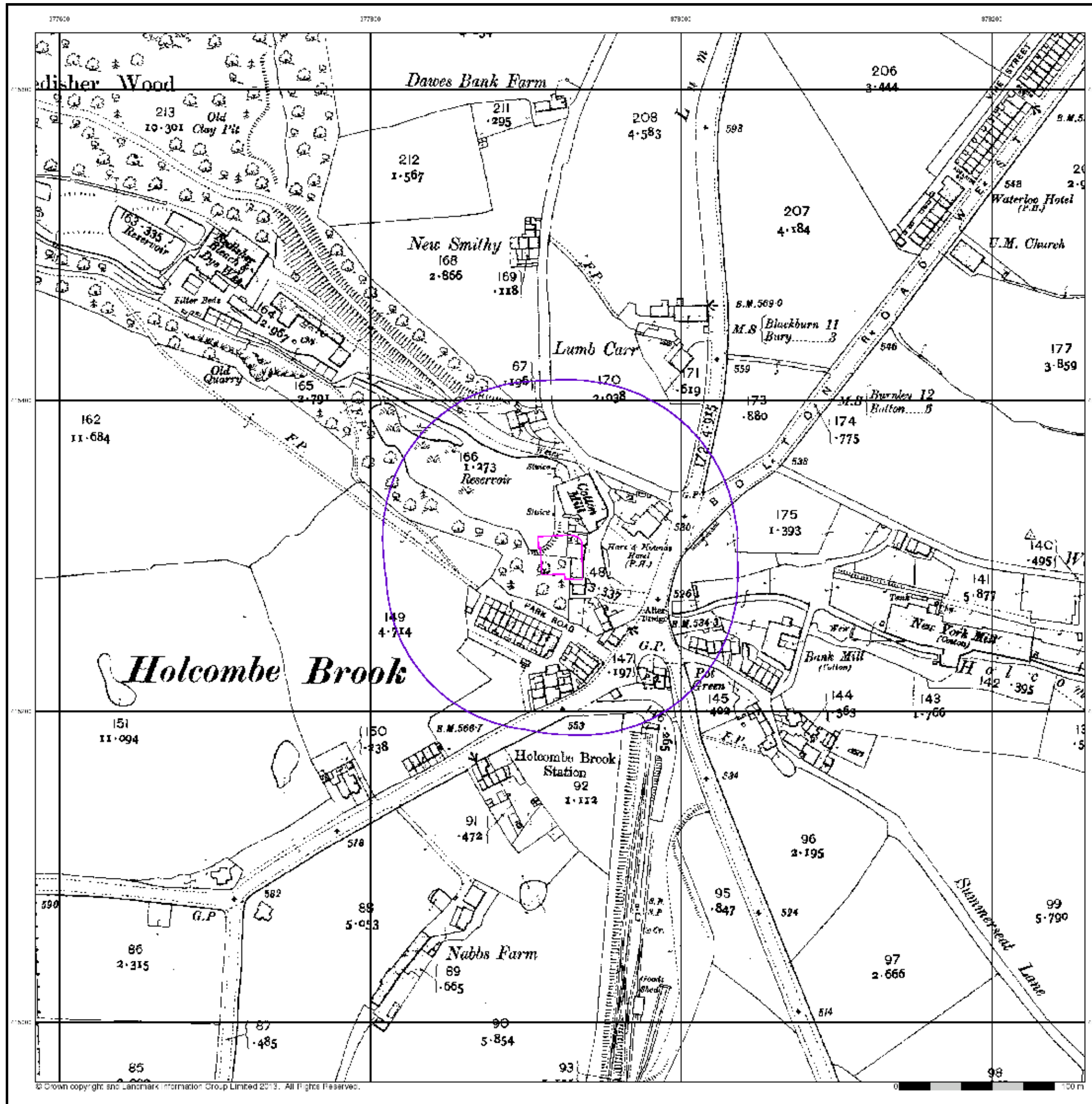


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA





Map Name(s) and Date(s)



Site Details

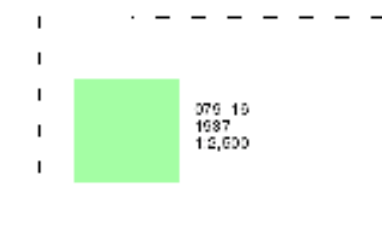
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Published 1937

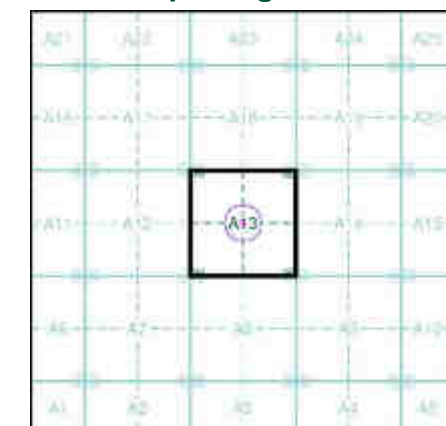
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

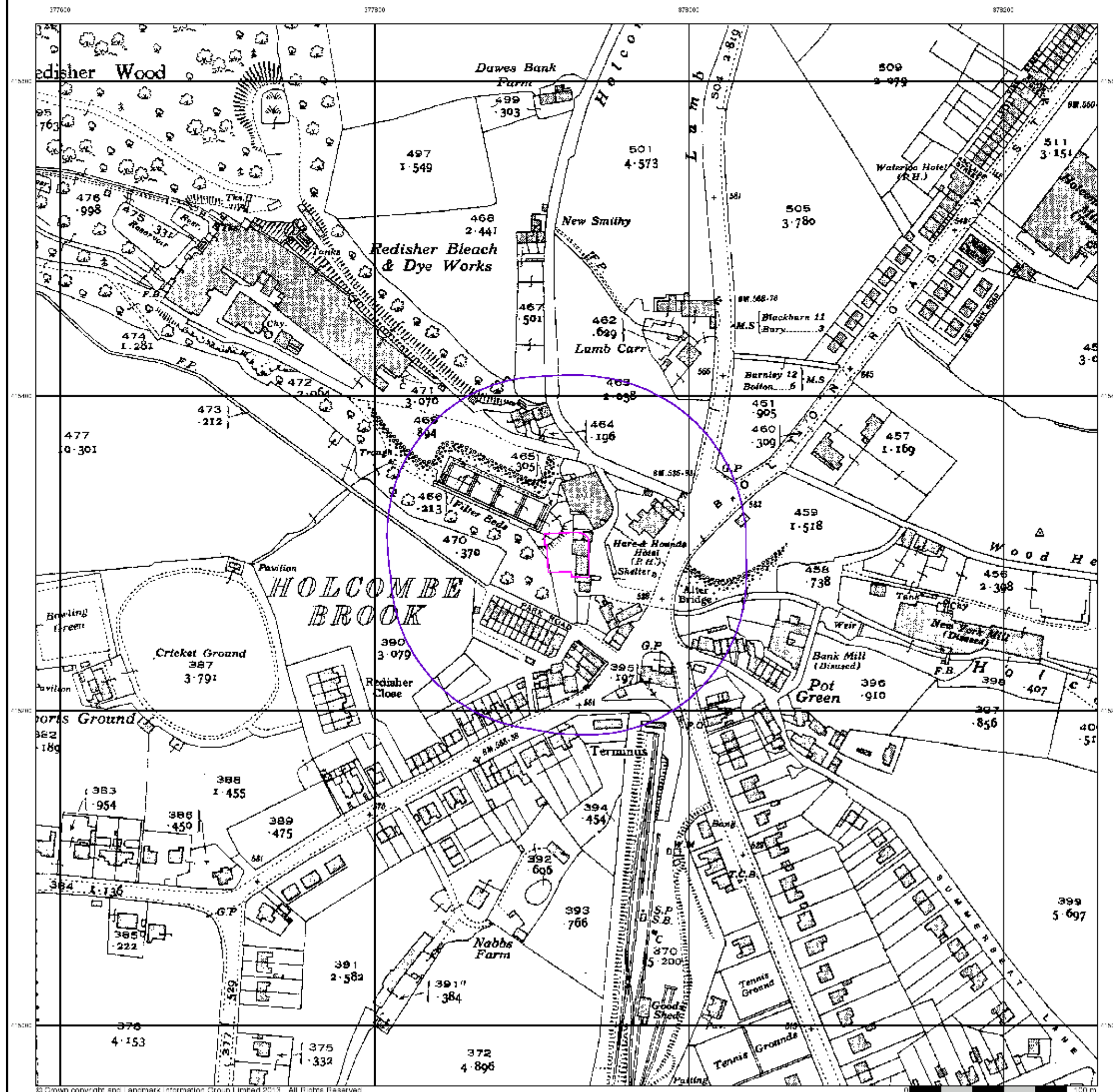


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA





Ordinance Survey Plan

Published 1963 - 1964

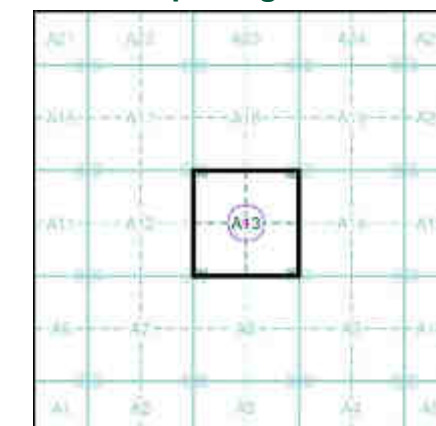
Source map scale - 1:2,500

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)

SD7715 1964 1:2,500	SD7815 1963 1:2,500
SD7714 1964 1:2,500	SD7814 1963 1:2,500

Historical Map - Segment A13



Order Details

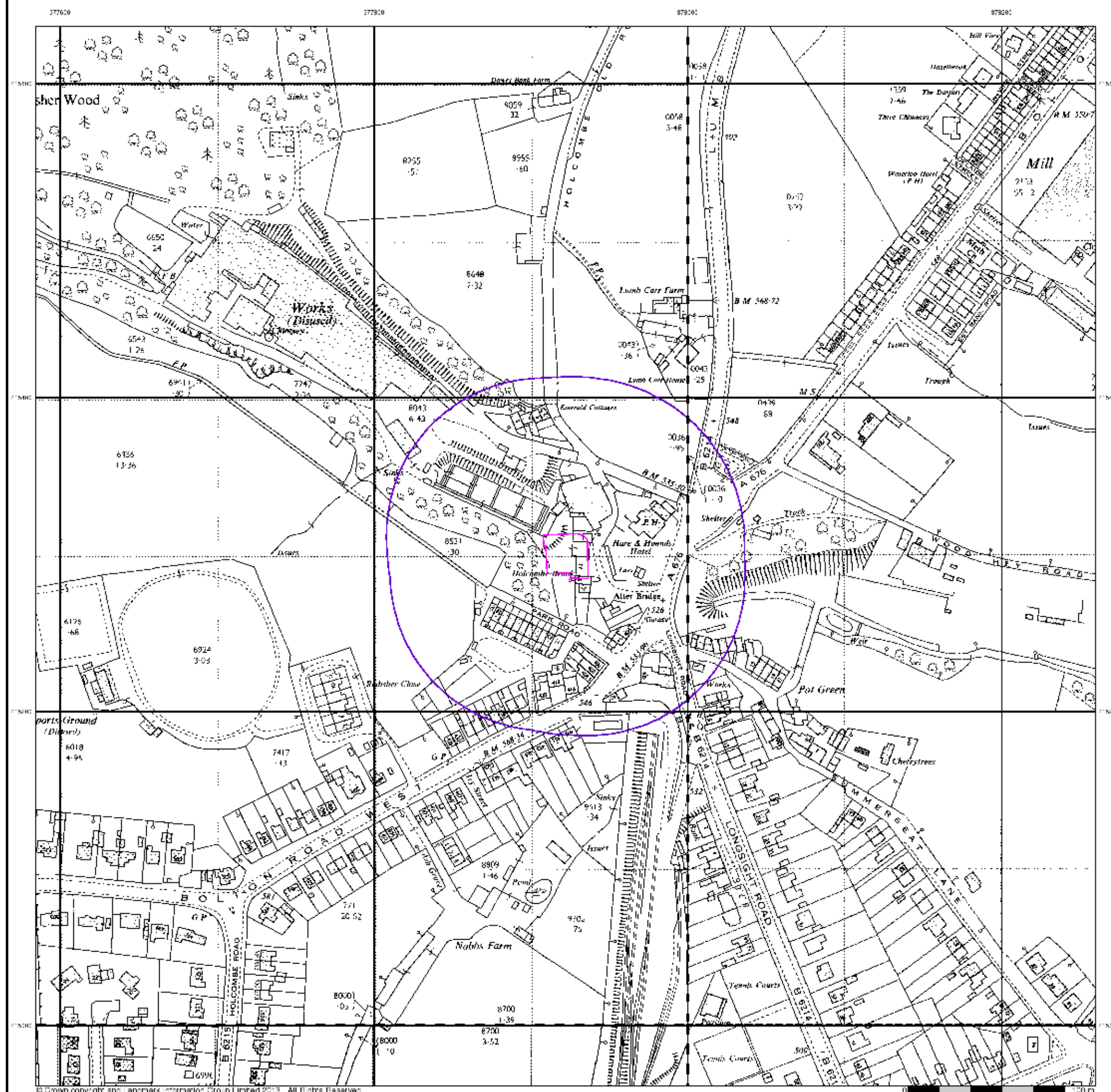
Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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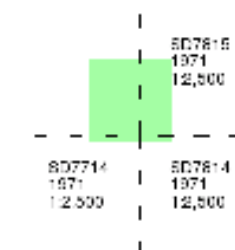


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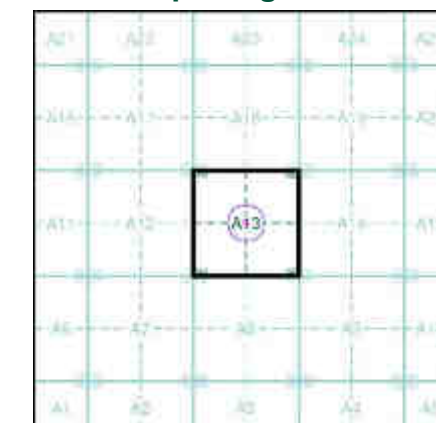


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A13

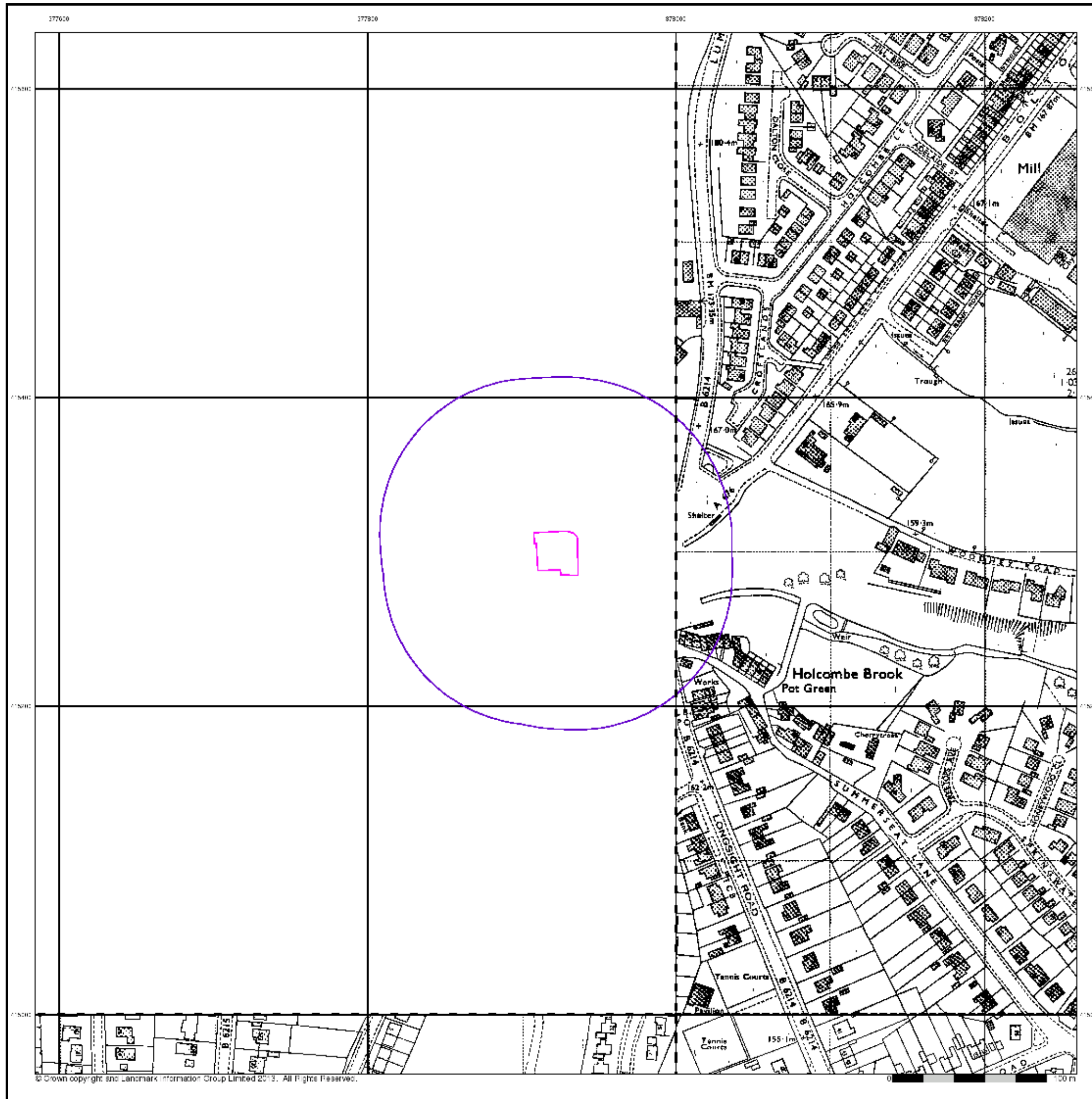


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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Ordinance Survey Plan

Published 1977 - 1978

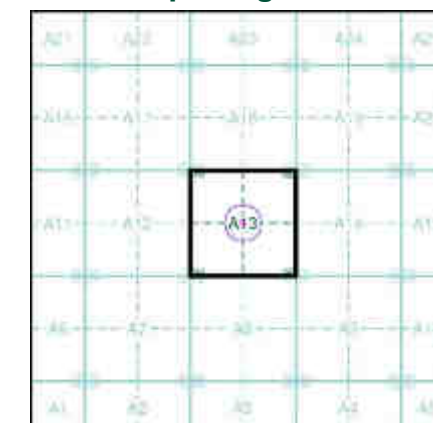
Source map scale - 1:1,250

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)

SD771350E	SD781500N
1978	1978
1:1,250	1:1,250
SD771400E	SD781400N
1977	1978
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

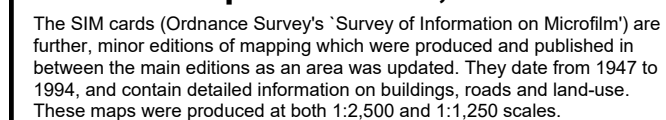
Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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SD78150
1988
11,250

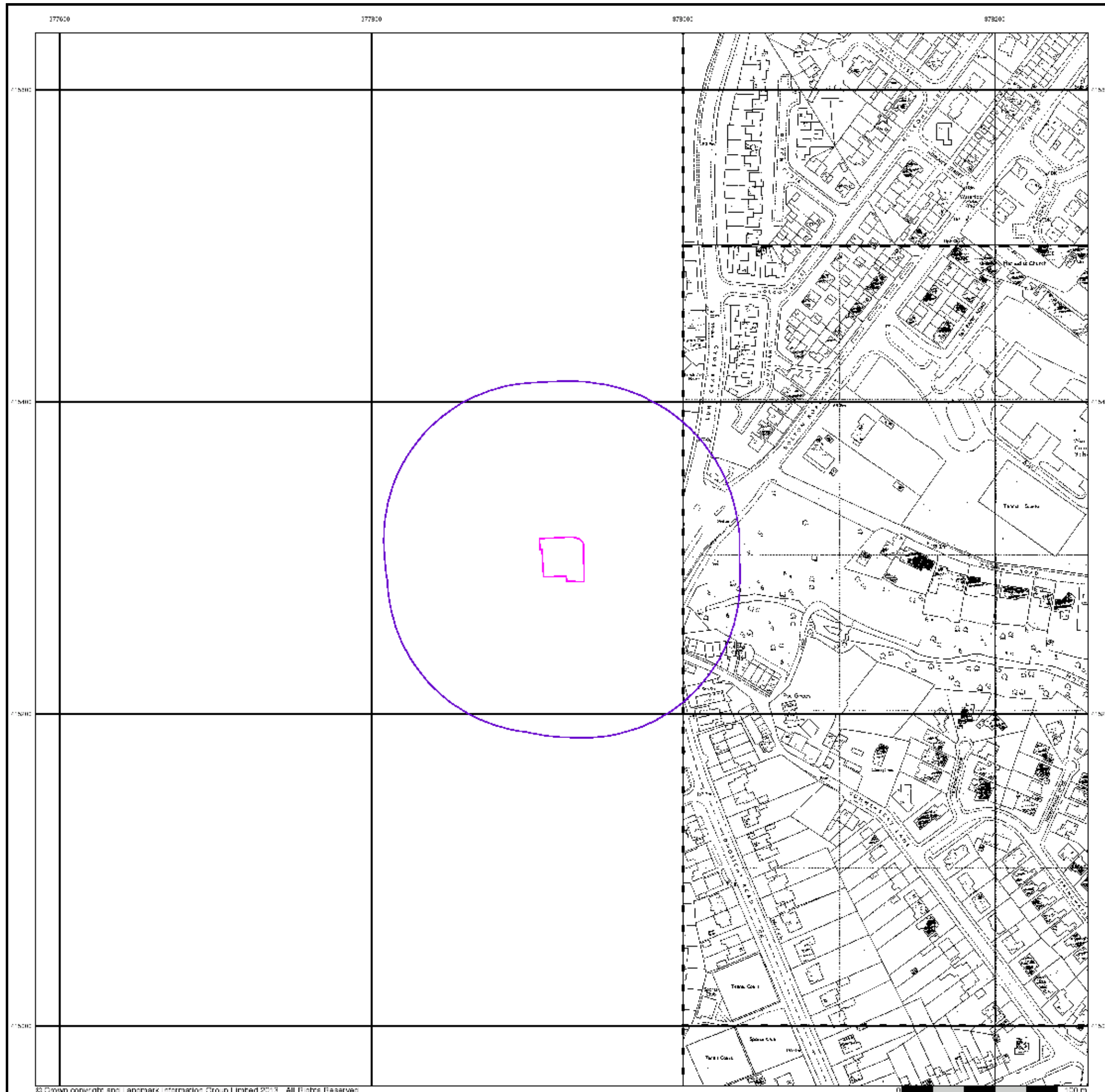
L
N178155
1993
11,250

L
SD78140
1988
11,250

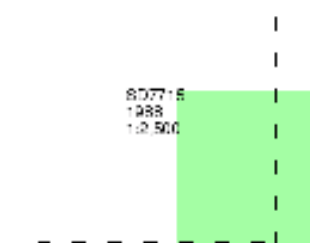
A 5x5 grid of points labeled A1 through A25. The points are arranged in a regular grid. A 3x3 square is highlighted in the center, with its center point A13 circled in purple.

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

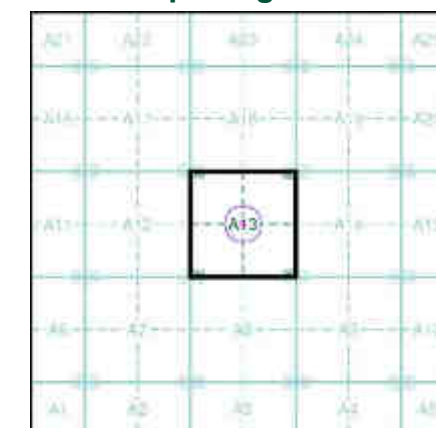
Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



Map Name(s) and Date(s)



Historical Map - Segment A13

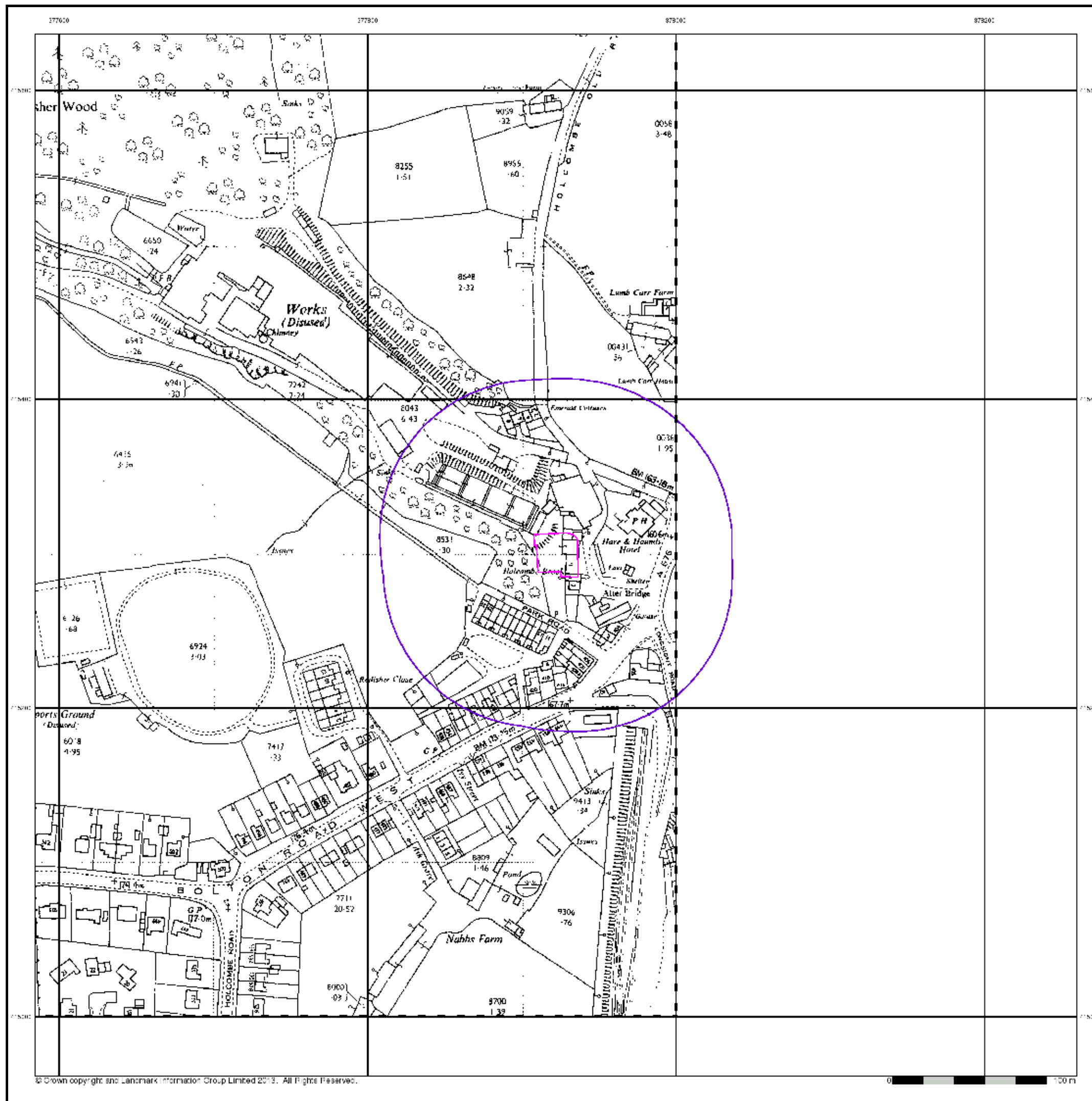


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
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Large-Scale National Grid Data

Published 1992

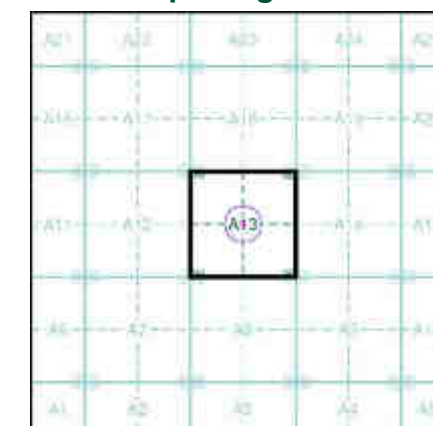
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

307715N	415300E
1992	1992
1:1,250	1:1,250
307715N	415300E
1992	1992
1:1,250	1:1,250
307714N	415300E
1992	1992
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

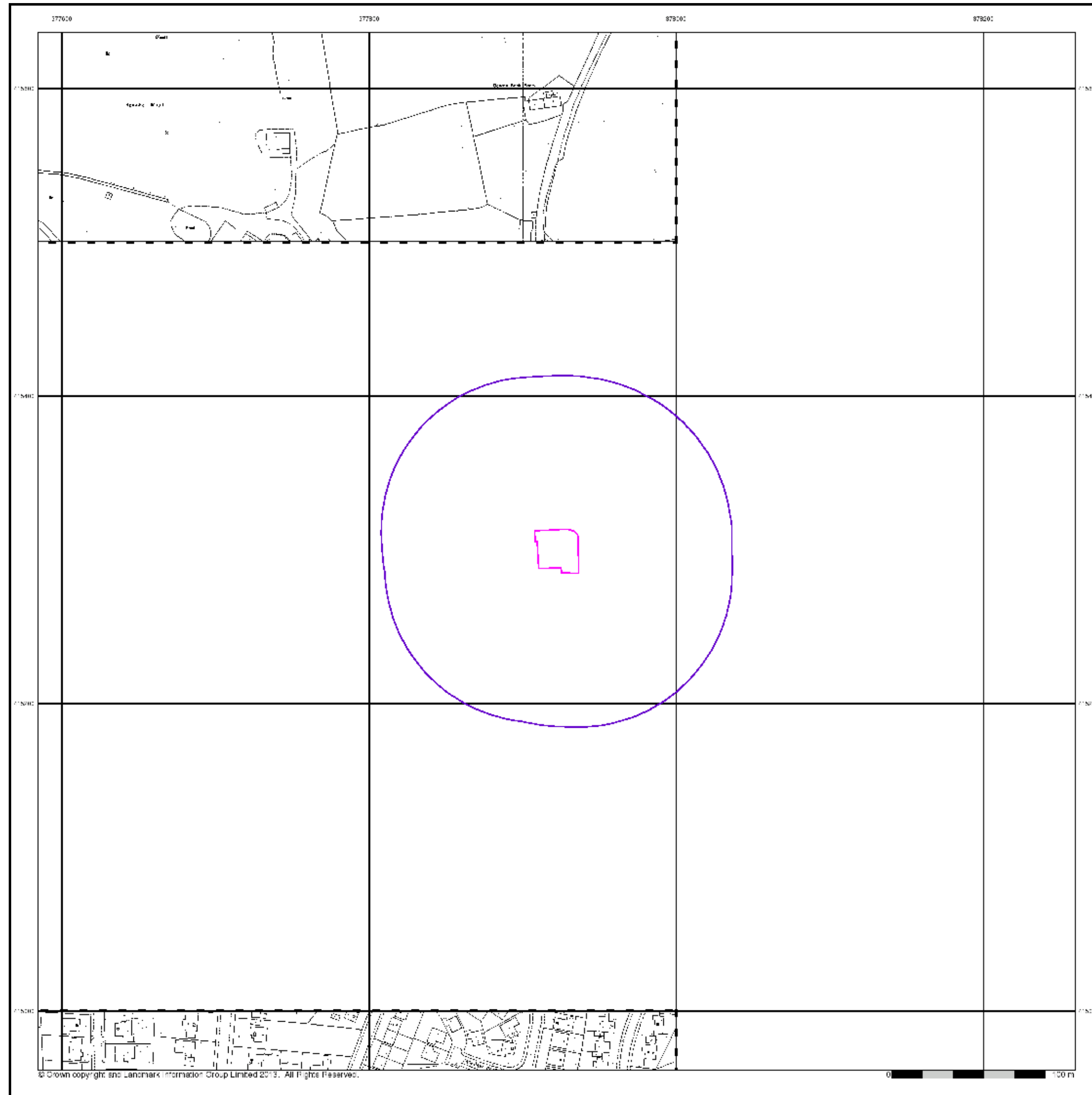
Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993 - 1995

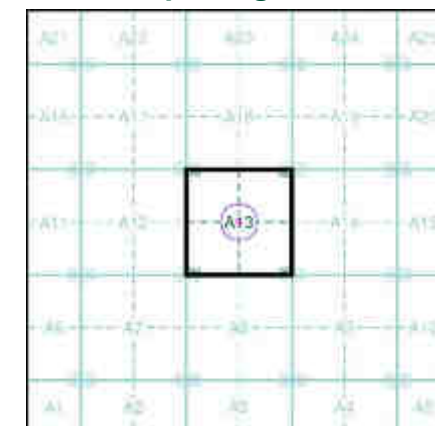
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

07714ND
993
1:1250
07714ND
995
1:1250

Historical Map - Segment A13



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		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

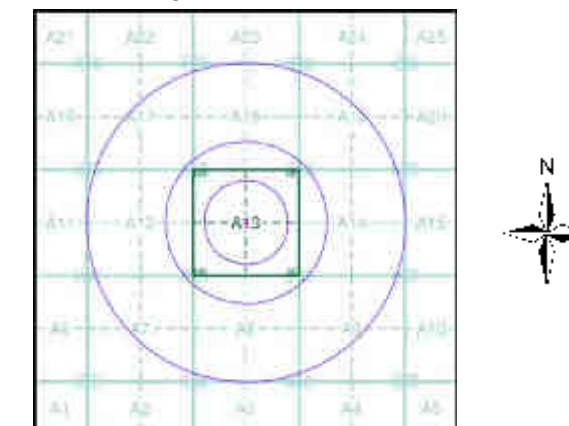
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911 - 1912	5
Lancashire And Furness	1:10,560	1930 - 1931	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1968 - 1969	9
Ordnance Survey Plan	1:10,000	1974	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1982	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2014	14

Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
 Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA

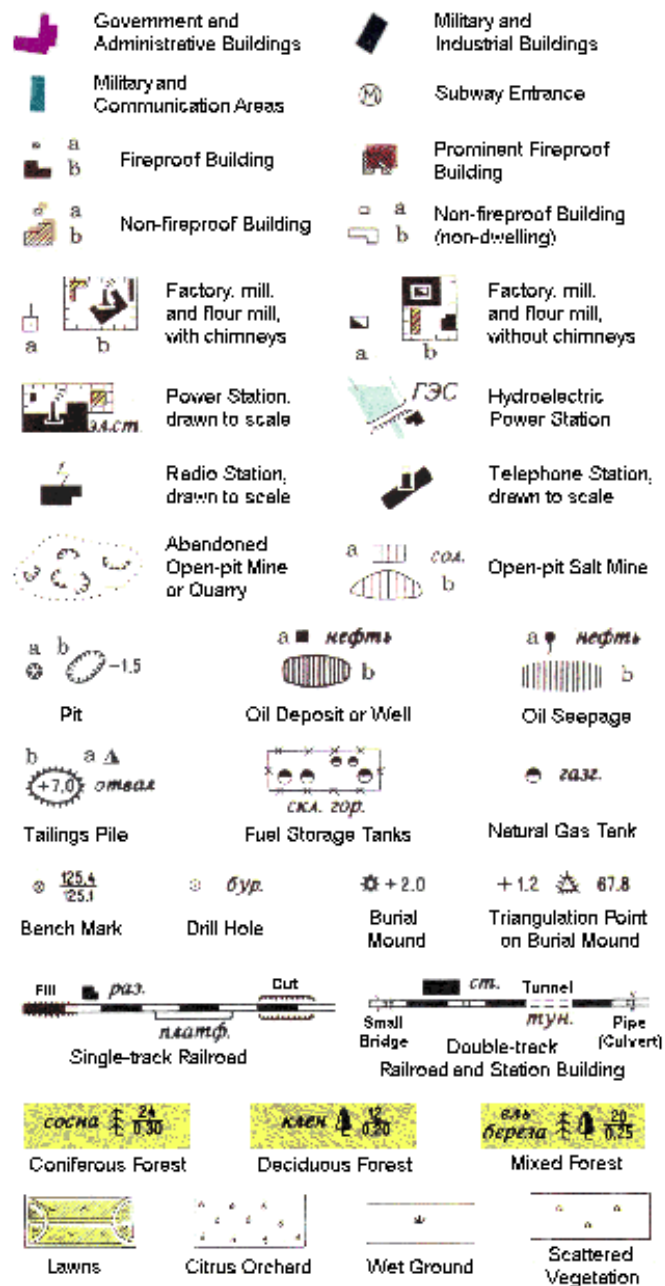


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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale



243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

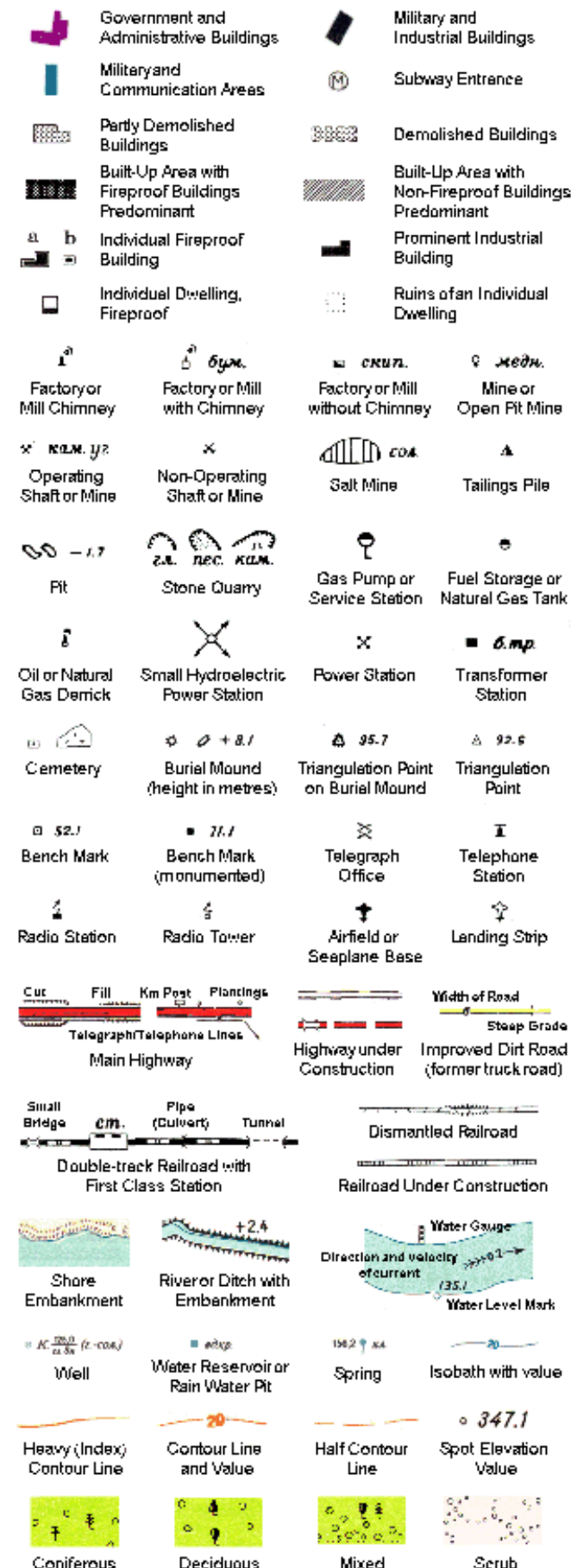
Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



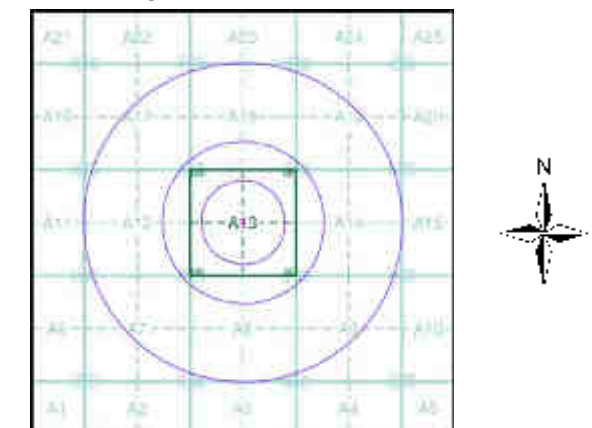
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911 - 1912	5
Lancashire And Furness	1:10,560	1930 - 1931	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1968 - 1969	9
Ordnance Survey Plan	1:10,000	1974	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1982	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2014	14

Russian Map - Slice A



Order Details

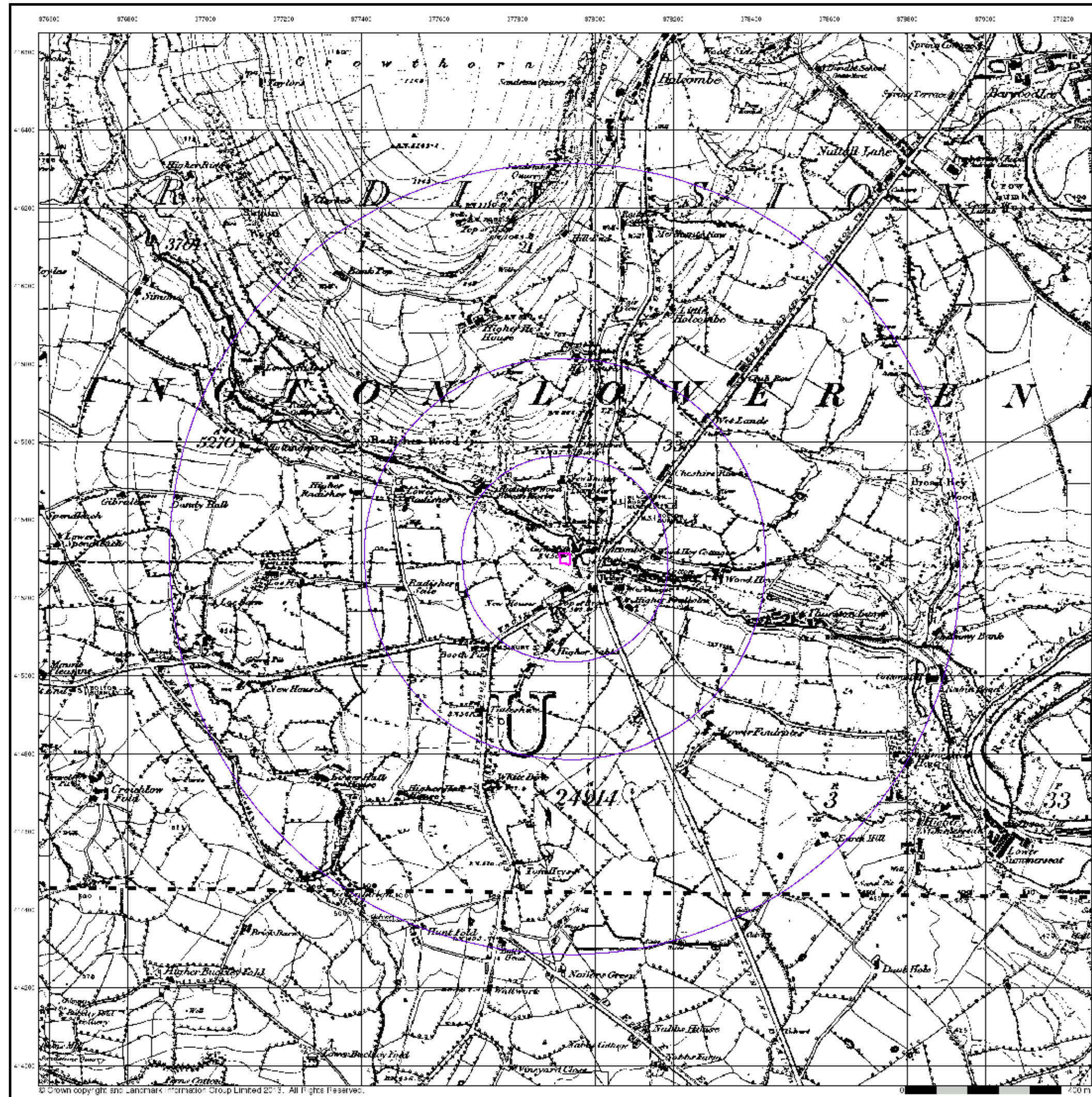
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
 Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



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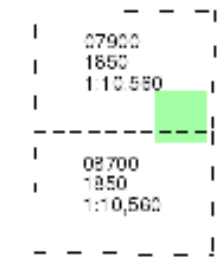
Lancashire And Furness

Published 1850

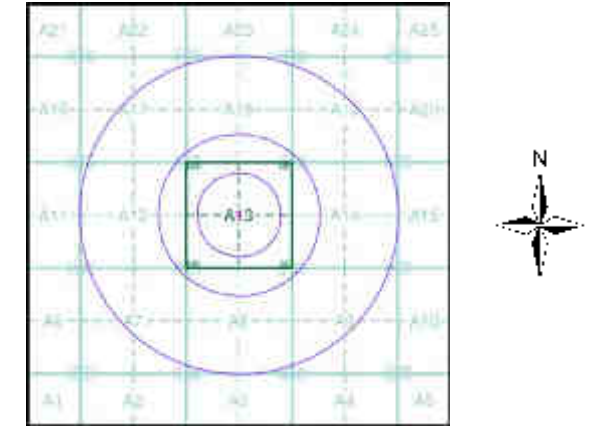
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

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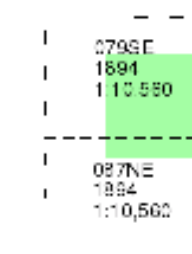
Lancashire And Furness

Published 1894

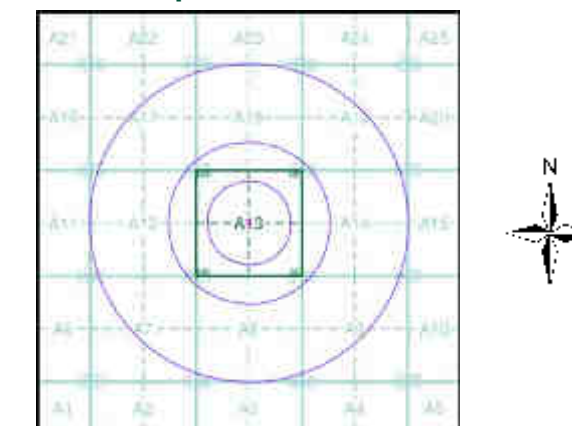
Source map scale - 1:10,560

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

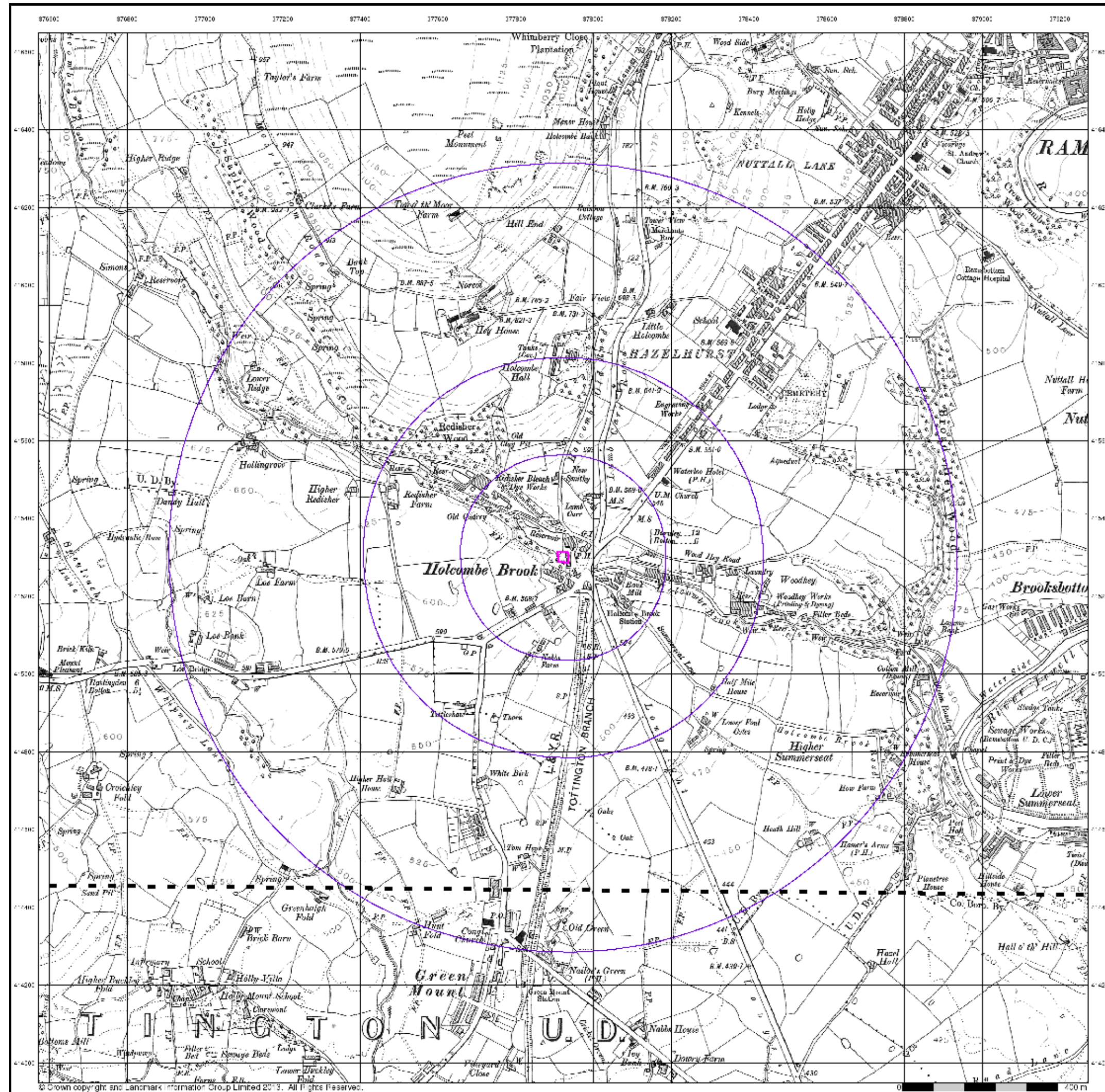
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 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
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 Search Buffer (m): 1000

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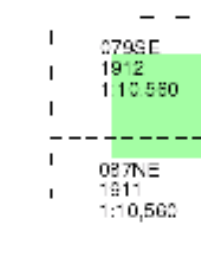
Lancashire And Furness

Published 1911 - 1912

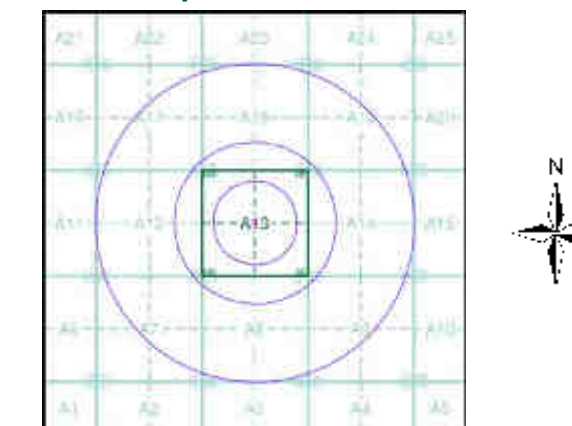
Source map scale - 1:10,560

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

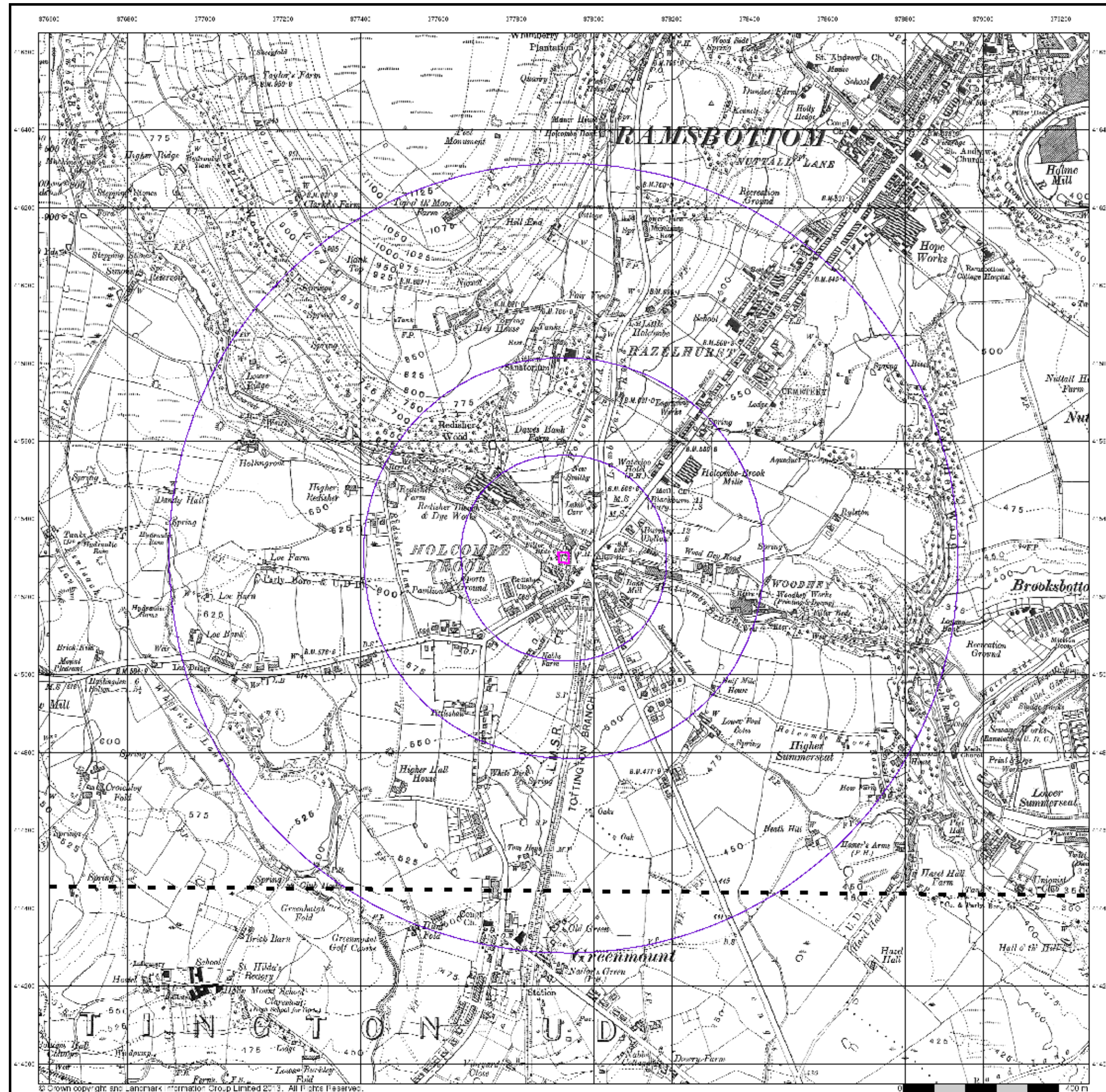
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 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

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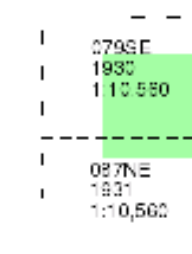
Lancashire And Furness

Published 1930 - 1931

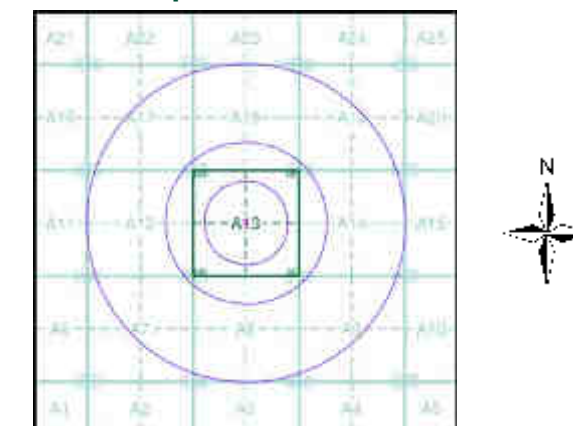
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

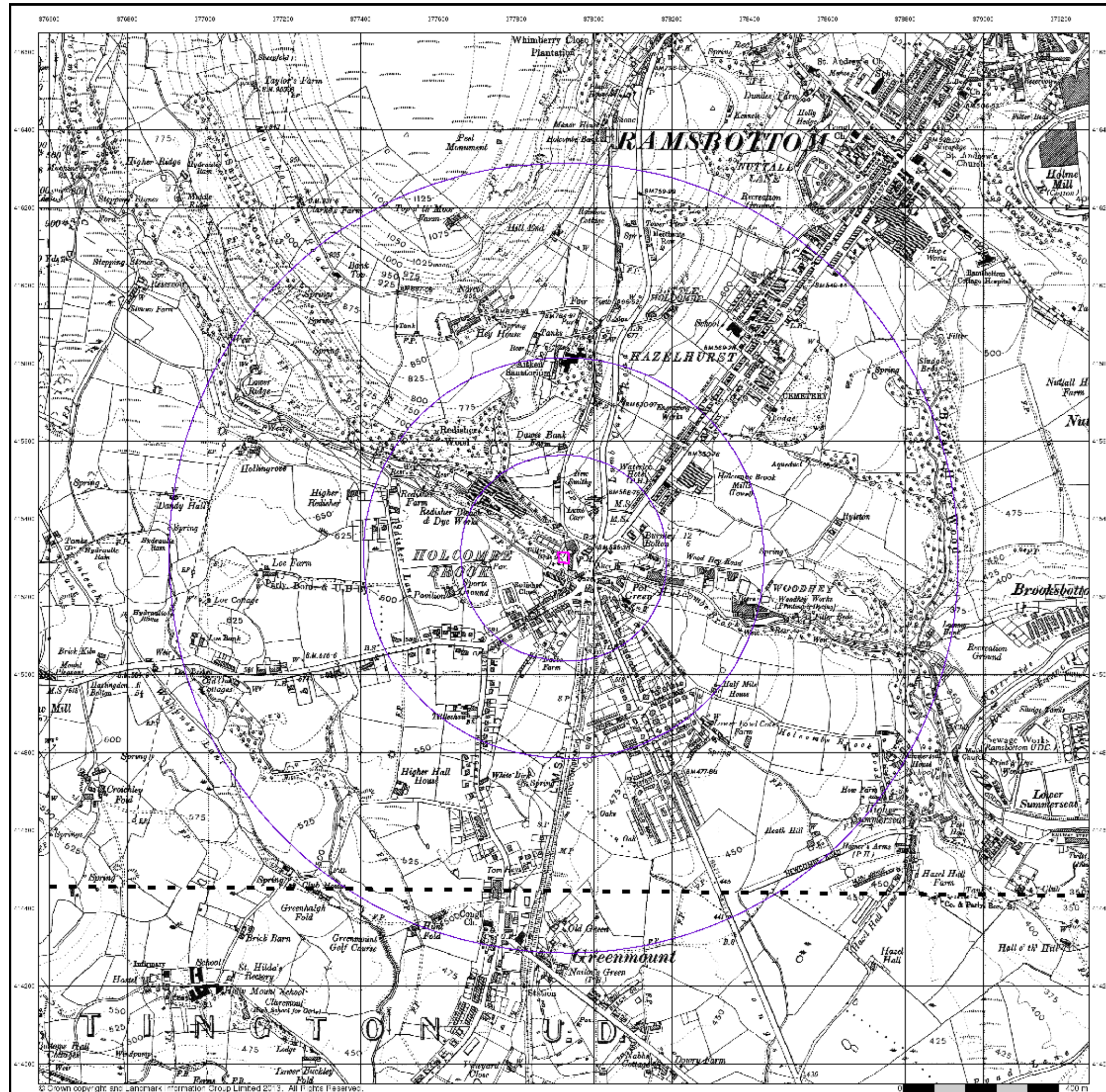
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Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
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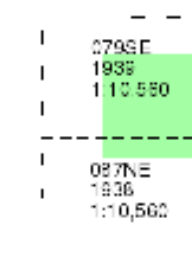
Lancashire And Furness

Published 1938 - 1939

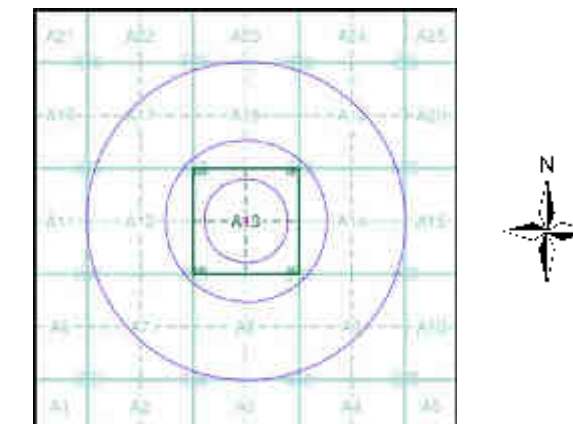
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

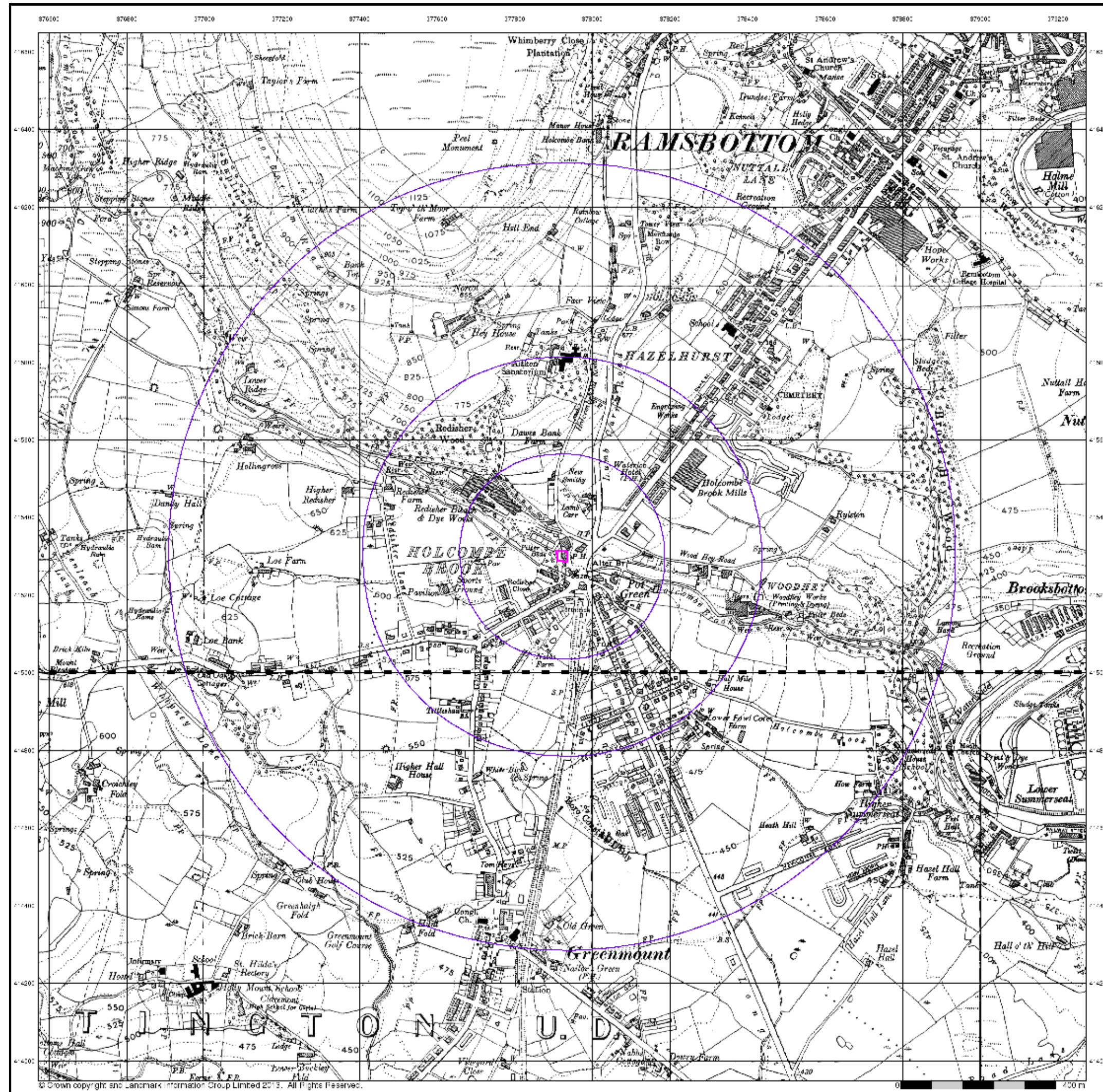
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1955 - 1956

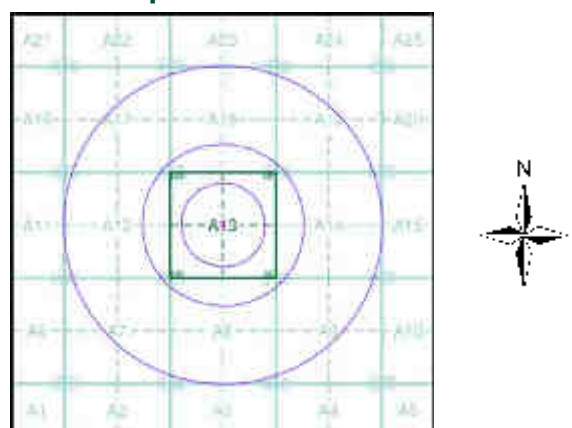
Source map scale - 1:10,000

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)

SD71NE	1955
1:10,560	
SD71SE	1955
1:10,560	

Historical Map - Slice A



Order Details

Order Number:	63514826_1_1
Customer Ref:	LKC 14 1496
National Grid Reference:	377920, 415300
Slice:	A
Site Area (Ha):	0.07
Search Buffer (m):	1000

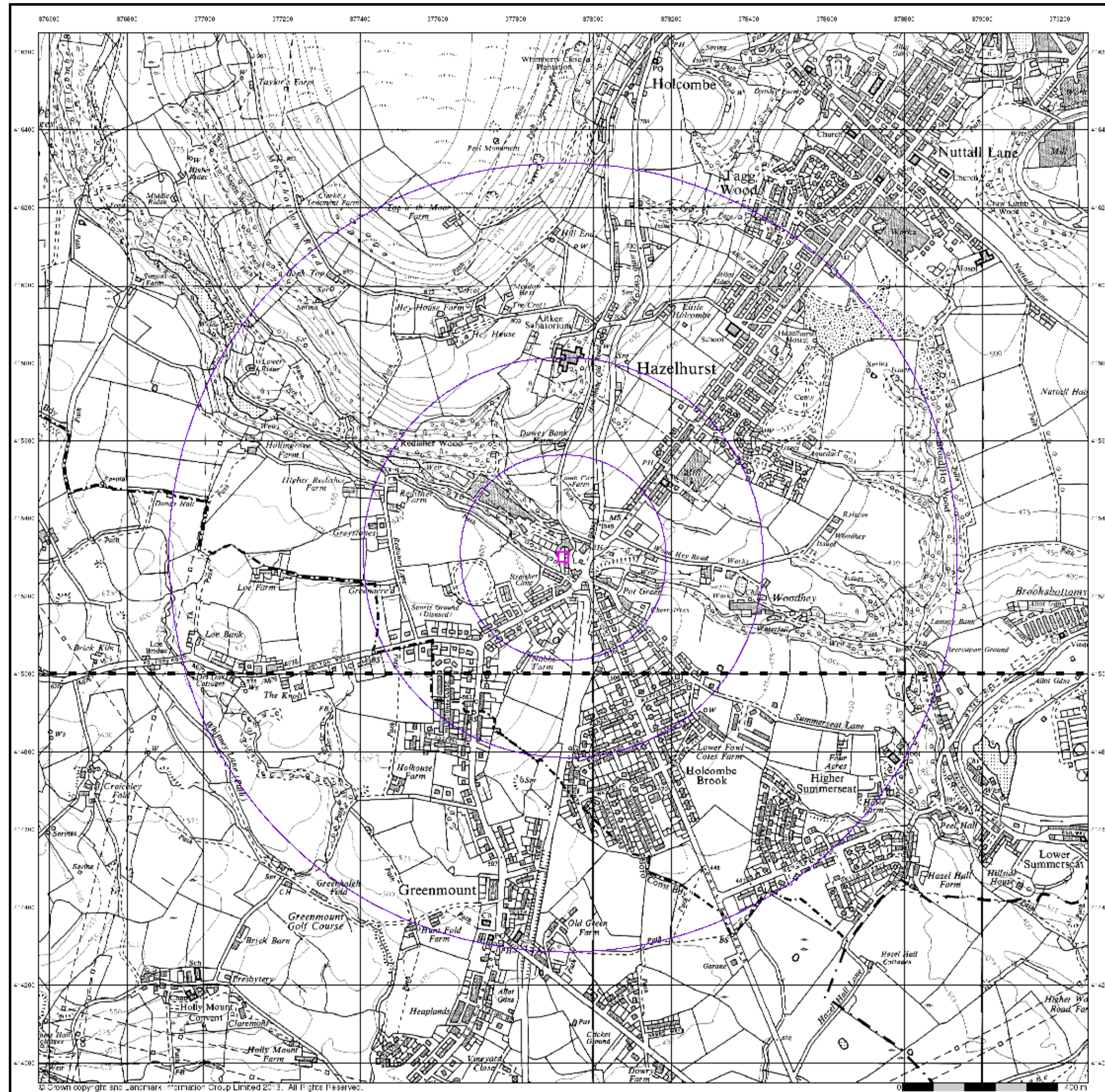
Site Details

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Ordnance Survey Plan

Published 1968 - 1969

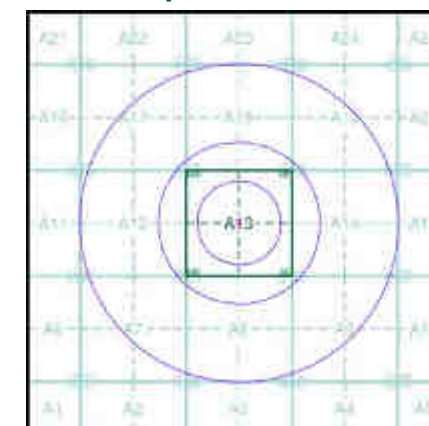
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD71NE
1968
1:10,560
SD71SE
1968
1:10,560

Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
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Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1974

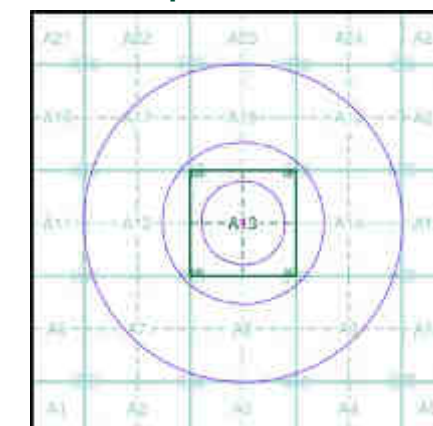
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

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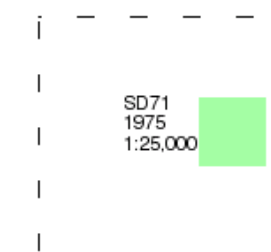
Manchester

Published 1975

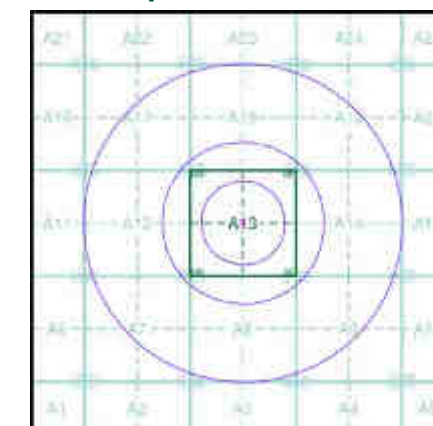
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

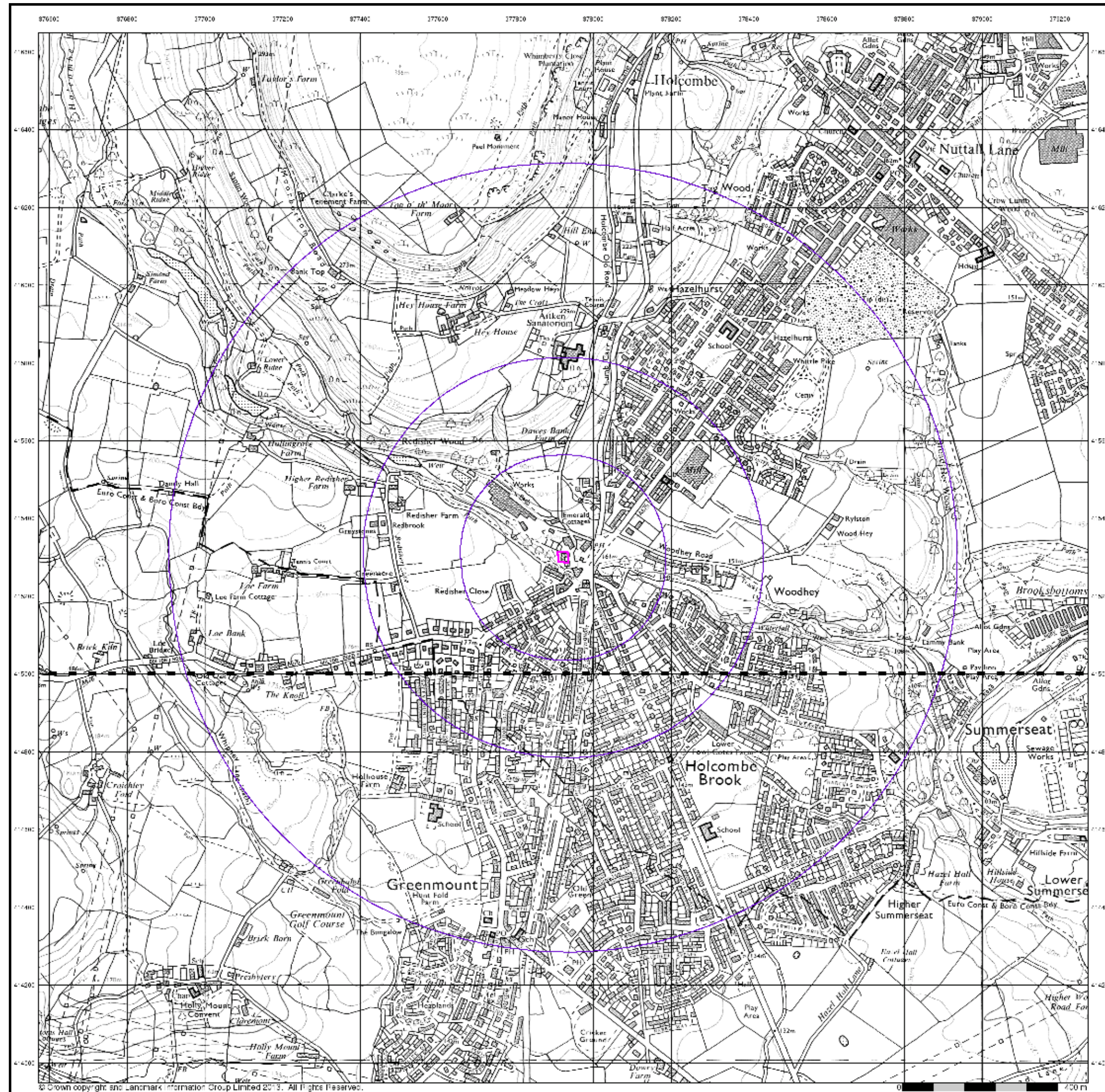
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Customer Ref: LKC 14 1496
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Site Area (Ha): 0.07
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1982

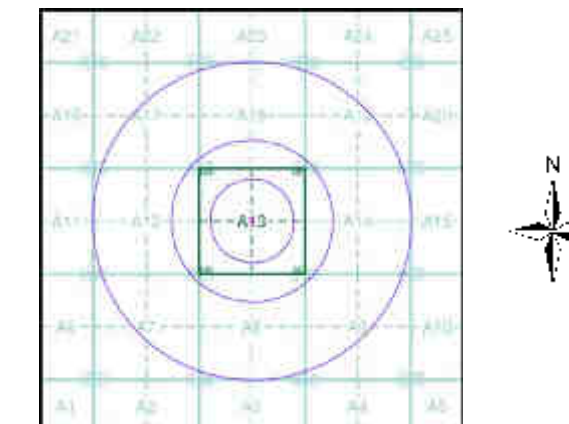
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD71NE
1982
1:10 000
SD71SE
1982
1:10 000

Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2006

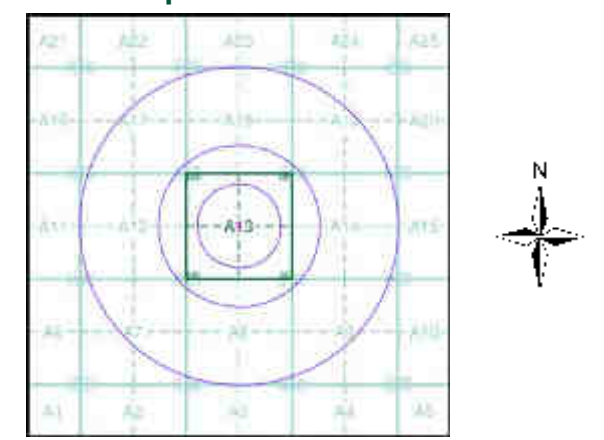
Source map scale - 1:10,000

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)

SD71NE
2006
1:10,000
SD71SE
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

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VectorMap Local

Published 2014

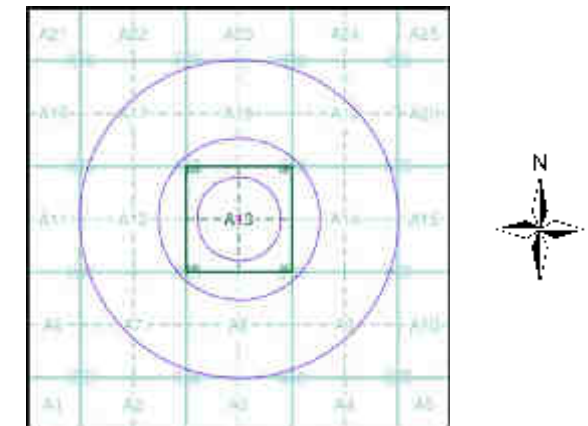
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	63514826_1_1
Customer Ref:	LKC 14 1496
National Grid Reference:	377920, 415300
Slice:	A
Site Area (Ha):	0.07
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APPENDIX B

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

63514826_1_1

Customer Reference:

LKC 14 1496

National Grid Reference:

377920, 415300

Slice:

A

Site Area (Ha):

0.07

Search Buffer (m):

1000

Site Details:

Finishing Techniques Ltd, Unit 1-2
Halter Inn Works, Holcombe Brook,
Ramsbottom
BURY
Lancashire
BL0 9SA

Client Details:

L Consult
LK Consult Ltd
Bury Business Centre
Kay Street
Bury
Lancashire
BL9 6BU

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	15
Hazardous Substances	-
Geological	16
Industrial Land Use	28
Sensitive Land Use	31
Data Currency	32
Data Suppliers	37
Useful Contacts	38

Introduction

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

In 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 Public Health England.

Report Version v49.0

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		1		2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1		2		1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2			2	6
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 3		1		
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3			2	2 (*31)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 12	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 12		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 12		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 13		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 14		Yes	Yes	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 15			1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 15				1
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 15			1	
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 16	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 16	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25		1	1	1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 26	Yes	n/a	n/a	n/a
Mining Instability	pg 26	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 26	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 26	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 26	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 26	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 27	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 28	1	6	6	19
Fuel Station Entries					
Sensitive Land Use					
Areas of Adopted Green Belt	pg 31	1			
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 31		1		
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					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Stephen & Joyce Danks Property Type: Domestic Property (Single) Location: 9 Holcombe Brook, Ramsbottom, Bury, Lancashire, BL0 9sa Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 0165/20 Permit Version: 1 Effective Date: 12th May 1965 Issued Date: 12th May 1965 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holcombe Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	4	2	377934 415281
2	Discharge Consents Operator: Thomas Robinson Ltd Property Type: Textile Finishing Location: Thomas Robinson(Vyella) Ltd Hope Works, Bolton Road West, Ramsbottom, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990081 Permit Version: 1 Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: 31st August 1990 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Holcombe Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14SE (E)	884	2	378800 415100
2	Discharge Consents Operator: Mr R Orton Property Type: Sewage Disposal Works - Other Location: Stp Serving Lammy Bank Robin Road, Summerseat, Bury, Lancashire, BL9 5qp Authority: Environment Agency, North West Region Catchment Area: Holcombe Brook Reference: 016993369 Permit Version: 1 Effective Date: 18th February 2000 Issued Date: 18th February 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Holcombe Bk Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	913	2	378830 415100
3	Local Authority Pollution Prevention and Controls Name: Cheswicks Location: Holcombe Brook, BURY, BL8 4LX Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: 15 Dated: 1st March 1994 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	27	3	377960 415274
4	Local Authority Pollution Prevention and Controls Name: Carlton Cleaners Location: Unit 13 Holcombe Brook Precinct, BL0 9SH Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC0607 Dated: 1st December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SE (S)	133	3	377968 415156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Local Authority Pollution Prevention and Controls Name: F.D. Simms Ltd Location: Hazlehurst Works, Regent Street, Ramsbottom, BURY, Lancashire, BL0 9PF Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: 12 Dated: 1st March 1993 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	833	3	378431 415979
	Nearest Surface Water Feature	A13NE (E)	9	-	377945 415304
6	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: SUMMERSEAT Authority: Environment Agency, North West Region Pollutant: Sewage - Treated Effluent Note: River Irwell; Colour Incident Date: 1st February 1997 Incident Reference: 97620198 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	389	2	378201 415001
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: Not Supplied Incident Date: 27th February 1996 Incident Reference: 96620375 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	449	2	377500 415500
8	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Holcombe Brook; Washing Machine Effluent Incident Date: 30th April 1996 Incident Reference: 96620921 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	594	2	378500 415100
9	Pollution Incidents to Controlled Waters Property Type: Agriculture Location: Woodhey Road, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Inert : Other Note: Not Supplied Incident Date: 17th May 1999 Incident Reference: 28607 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Unauthorised Activity : Unauthorised Waste Management Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	764	2	378700 415300
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; No Pollution Found Incident Date: 5th August 1996 Incident Reference: 96621724 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	786	2	378700 415100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Brook At Newmarket Street, SUMMERSEAT Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Oily Film On Brook Incident Date: 13th January 1998 Incident Reference: SO980103 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	816	2	378701 415001
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found Incident Date: 28th May 1996 Incident Reference: 96621146 Catchment Area: Irwell 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)	967	2	378500 414500
13	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Other Location: Greenmount Golf Club Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Sewage From Septic Tank Incident Date: 2nd March 1998 Incident Reference: SO980441 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	997	2	377300 414500
	River Quality Name: Holcombe Bk GQA Grade: River Quality B Reach: Qsl At Redisher Close To Irwell Estimated Distance (km): 1.3 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NE (NE)	2	2	377930 415315
14	Water Abstractions Operator: Darul Uloom Licence Number: 2569010228 Permit Version: Not Supplied Location: Borehole, Holcombe, BURY, Lancashire Authority: Environment Agency, North West Region Abstraction: Private Water Supply (Domestic & Holiday Recreation/Hotels Etc) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 91 Yearly Rate (m3): 22730 Details: 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	A18SW (N)	495	2	377800 415795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Water Abstractions Operator: Darul Uloom Licence Number: 2569001228 Permit Version: 100 Location: Borehole At Holcombe, Near Bury, Lancs Authority: Environment Agency, North West Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 91 Yearly Rate (m3): 22730 Details: Premises At Holcombe Hall, Holcombe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th June 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SW (N)	500	2	377800 415800
15	Water Abstractions Operator: Mr D Davenport Licence Number: 2569001204 Permit Version: 100 Location: Borehole At Holcombe, Bury 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): 9 Yearly Rate (m3): 3319 Details: Hey House Farm, Holcombe, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th July 1979 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	577	2	377600 415800
16	Water Abstractions Operator: J Duxbury Licence Number: 2569001042 Permit Version: 100 Location: Spring At Higher Hall House (Holhouse) Farm, Greenmo 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): 4 Yearly Rate (m3): 1327 Details: Higher Hall House (Holhouse) Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	899	2	377100 414900
	Water Abstractions Operator: Greenleaf Enterprises Ltd Licence Number: 2569001038 Permit Version: 102 Location: River Irwell In Ramsbottom Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Summerseat Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1147	2	378950 414750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Binex Ltd Licence Number: 2569001038 Permit Version: 101 Location: River Irwell In Ramsbottom Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 91 Yearly Rate (m3): 23639 Details: Premises At Summerseat Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th June 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1147	2	378950 414750
	Water Abstractions Operator: Morada International Ltd Licence Number: 2569001131 Permit Version: 100 Location: Boreholes (2) At Hope Works, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1364 Yearly Rate (m3): 363688 Details: Hope Works,Bolton Road West,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th October 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1173	2	378700 416200
	Water Abstractions Operator: Morada International Ltd Licence Number: 2569001131 Permit Version: 100 Location: Boreholes (2) At Hope Works, Ramsbottom \$86 Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Hope Works,Bolton Road West,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th October 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1247	2	378900 416100
	Water Abstractions Operator: Woodhey Dyeing Co Ltd Licence Number: 2569001149 Permit Version: Not Supplied Location: Tottington Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): Not Supplied Details: Reservoirs (2) Fed By Surface Drainage 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	A11SW (W)	1413	2	376500 415200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr J Whittaker Licence Number: 2569001101 Permit Version: 100 Location: Spring Fed Catchpit At Nuttal Hall Farm, Ramsbottom 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): 3 Yearly Rate (m3): 996 Details: Nuttal Hall Farm, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SE (E)	1420	2	379300 415700
	Water Abstractions Operator: Woodhey Dyeing Co Ltd Licence Number: 309 Permit Version: Not Supplied Location: Tottington Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Reservoir/Pond Daily Rate (m3): 30000 Yearly Rate (m3): 7500000 Details: Reservoirs (2) Fed By Surface Drainage 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	A6NW (W)	1560	2	376400 414900
	Water Abstractions Operator: Thornber Home & Leisure Limited Licence Number: 2569001193 Permit Version: 101 Location: Well Fed By Holcombe Brook Marked C On Plan Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bleaklow Mill, Hawkshaw, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th February 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1564	2	376680 416280
	Water Abstractions Operator: Blacksheep Textiles Ltd Licence Number: 2569001193 Permit Version: 100 Location: Well Fed By Holcombe Brook Marked C On Plan Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bleaklow Mill, Hawkshaw, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd May 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1564	2	376680 416280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Woodhey Dyeing Company Limited Licence Number: 2569001193 Permit Version: Not Supplied Location: Fed By Holcombe Brook Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 318 Yearly Rate (m3): 113650 Details: Not Supplied 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	A16NE (NW)	1581	2	376600 416200
	Water Abstractions Operator: Mr J Kenyon Licence Number: 2569001208 Permit Version: 101 Location: Borehole At Summerseat, Bury 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: Higher Wood Road Farm, Summerseat Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	1603	2	379200 414300
	Water Abstractions Operator: John Kenyon & Sons Licence Number: 2569001208 Permit Version: 100 Location: Borehole At Summerseat, Bury 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): 41 Yearly Rate (m3): 14975 Details: Higher Wood Road Farm, Summerseat Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	1603	2	379200 414300
	Water Abstractions Operator: Edward Turnbull Ltd Licence Number: 2569001253r1 Permit Version: 1 Location: Borehole At Edward Turnbull, Tottington, Bury Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th February 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1789	2	377820 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Edward Turnbull Ltd Licence Number: 2569001253 Permit Version: 101 Location: Borehole At Stormer Hill, Tottington Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Stormer Hill, Tottington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1789	2	377820 413500
	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001253 Permit Version: 100 Location: Borehole At Stormer Hill, Tottington Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 364 Yearly Rate (m3): 100000 Details: Land At Stormer Hill, Tottington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th October 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1789	2	377820 413500
	Water Abstractions Operator: Joseph Scholes & Sons Ltd. Licence Number: 2569001010 Permit Version: Not Supplied Location: Tottington Near Bury, BURY Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 136 Yearly Rate (m3): 4091 Details: Additional Purpose - Boiler Feed 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	(S)	1790	2	377800 413500
	Water Abstractions Operator: Mr Thomas Leo Murphy Licence Number: 2569001009 Permit Version: 102 Location: Reservoir Fed By Unnamed Tributary Y Kirklees Brook Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th December 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1800	2	377700 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr Thomas Leo Murphy Licence Number: 2569001009 Permit Version: 102 Location: Reservoir Fed By Unnamed Tributary Y Kirklees Brook Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th December 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1800	2	377700 413500
	Water Abstractions Operator: Site Electrical Ltd Licence Number: 2569001009 Permit Version: 101 Location: Reservoir Fed By Unnamed Tributary Y Kirklees Brook Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1800	2	377700 413500
	Water Abstractions Operator: Site Electrical Ltd Licence Number: 2569001009 Permit Version: 101 Location: Reservoir Fed By Unnamed Tributary Y Kirklees Brook Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1800	2	377700 413500
	Water Abstractions Operator: Site Electrical Ph Ltd Licence Number: 2569001009 Permit Version: 100 Location: Reservoir Fed By Unnamed Tributary Of Kirklees Brk, Tottington Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): 27276 Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th November 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1800	2	377700 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Site Electrical Ph Ltd Licence Number: 2569001009 Permit Version: 100 Location: Reservoir Fed By Unnamed Trib Of Kirklees Brk, Tottington Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Tottington, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th November 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1800	2	377700 413500
	Water Abstractions Operator: Knowles Vanlines Ltd Licence Number: 2569001200 Permit Version: Not Supplied Location: River Irwell, Ramsbottom, BURY Authority: Environment Agency, North West Region Abstraction: Vehicle Washing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 9 Yearly Rate (m3): 2800 Details: 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	A25SE (NE)	1811	2	379300 416500
	Water Abstractions Operator: Woodhey Dyeing Company Ltd Licence Number: 2569001149 Permit Version: 100 Location: Unnamed Tributary Of Kirklees Brook At Hawkshaw Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): 0 Details: Bleaklow Mill, Hawkshaw, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th December 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1812	2	376100 415200
	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001030 Permit Version: 105 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1948	2	379300 416700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001030 Permit Version: 104 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1948	2	379300 416700
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001030 Permit Version: 103 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1948	2	379300 416700
	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001030 Permit Version: 102 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1948	2	379300 416700
	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001030 Permit Version: 101 Location: Borehole At Peel Bridge Mills, Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1637 Yearly Rate (m3): 409149 Details: Land At Peel Bridge Mills, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NE (NE)	1948	2	379300 416700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr K Taylor Licence Number: 2569001218 Permit Version: Not Supplied Location: Wood Mill, SUMMERSEAT Authority: Environment Agency, North West Region Abstraction: Water Power Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: River Irwell 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	A5NE (SE)	1962	2	379500 414100
	Water Abstractions Operator: G N Platt Licence Number: 2569001125 Permit Version: 100 Location: Well At Ramsbottom, Known As Soldiers Well Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 4 Yearly Rate (m3): 1332 Details: Higher Barn Farm And Carn Brae Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th May 1971 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1991	2	377800 417300
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13NE (SW)	0	2	377923 415299
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring 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 (SW)	0	2	377923 415299
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (SW)	0	4	377923 415299
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (S)	0	4	377920 415291
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	8	2	377943 415302
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	10	2	377935 415322
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	84	2	378018 415269
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	9	2	377945 415300
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	11	2	377935 415322

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	87	2	378021 415269
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	148	2	378081 415255
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
17	Detailed River Network Lines River Type: Primary River River Name: Holcombe Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13NE (NE)	7	2	377943 415309
18	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Holcombe Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13SE (SE)	15	2	377951 415285
19	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13NE (N)	33	2	377926 415346
20	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13SE (E)	81	2	378015 415266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (E)	153	2	378087 415258
22	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13SE (E)	153	2	378087 415258
23	Detailed River Network Lines River Type: Primary River River Name: Holcombe Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13SE (E)	172	2	378105 415252
24	Detailed River Network Lines River Type: Primary River River Name: Holcombe Brook Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: HOLCOMBE BROOK Name: Water Course: HOLM Reference:	A13NW (NW)	286	2	377668 415467
25	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (NW)	104	2	377815 415357
26	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (NW)	329	2	377741 415595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Historical Landfill Sites Licence Holder: Abbots of Bury Limited Location: Woodhey Road, Holcombe Brook, Bury, Lancashire Name: Woodhey Dye Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15685 First Input Date: 31st December 1918 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9205 BGS Ref: Not Supplied Other Ref: C047, RD/LIC/079/77	A14SW (E)	396	2	378318 415179
28	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Bolton Road West, Ramsbottom, Greater Manchester Name: Land off Bolton Road West Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15674 First Input Date: Not Supplied Last Input Date: 31st December 1975 Specified Waste: Deposited Waste included Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C059	A19SW (NE)	823	2	378500 415909
29	Licensed Waste Management Facilities (Locations) Licence Number: 54433 Location: Tagg Wood Works, Regent Street, Ramsbottom, Bury, Lancashire, BL0 9PL Operator Name: Encia Group Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Mobile Plant Licence Status: Surrendered Issued: 8th April 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 29th November 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	843	2	378445 415982
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	7	377923 415299
30	Registered Landfill Sites Licence Holder: Abbotts Of Bury Ltd Licence Reference: 00079 Site Location: Woodhey Dye Works, Holcombe Brook, Ramsbottom, Bury, Lancashire Licence Easting: 378400 Licence Northing: 415150 Operator Location: Brookshaw St.Saw Mills, Chesham, Bury, Lancashire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 13th December 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Construction And Demolition Wastes Mine And Quarry Wastes Prohibited Waste: Biodegradable/Putrescible Waste Liquid/Slurry/Sludge Wastes Notifiable Wastes N.O.S Paper/Cardboard Waste	A14SW (E)	483	2	378400 415150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Namurian (Millstone Grit Series)	A13NE (SW)	0	4	377923 415299
	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	A13SW (S)	0	5	377920 415290
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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 (SW)	0	5	377923 415299
	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 (NE)	15	5	377940 415325
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	A13SW (SW)	28	5	377887 415274
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	A13NW (W)	55	5	377854 415307
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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 (N)	60	5	377923 415373

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 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:	A13NE (E)	64	5	378000 415299
	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:	A13NE (E)	64	5	378000 415301
	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:	A13SE (SE)	68	5	378000 415264
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A13NE (NE)	101	5	378000 415387
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A13SE (E)	212	5	378146 415260
	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:	A13SE (E)	214	5	378149 415265

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:	A13SW (S)	244	5	377899 415043
	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:	A13SE (S)	264	5	378000 415029
	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:	A13SE (S)	285	5	377923 415000
	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:	A13SE (S)	292	5	378000 415000
	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:	A13SE (SE)	369	5	378170 415000
	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:	A18SW (N)	396	5	377787 415689

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:	A13SE (SE)	397	5	378212 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18SW (NW)	430	5	377676 415674
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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)	459	5	378000 415766
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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)	487	5	378298 414960
	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)	544	5	378356 414940
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18SW (N)	585	5	377744 415874

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)	634	5	378000 415942
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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)	644	5	378011 415951
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	687	5	377923 416000
	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:	A18NE (N)	687	5	377938 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	691	5	378000 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18SW (N)	698	5	377653 415962

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 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:	A18NE (N)	701	5	378066 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	710	5	378106 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NW (N)	712	5	377725 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A17SE (NW)	748	5	377275 415711
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (NE)	761	5	378257 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A14SE (E)	778	5	378686 415080

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 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:	A18NE (N)	791	5	378000 416101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A14SE (E)	801	5	378684 415000
	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)	809	5	378617 414849
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A12SW (W)	838	5	377097 415089
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NW (N)	840	5	377617 416100
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A14SE (E)	881	5	378777 415024

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 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:	A14SE (E)	883	5	378772 415000
	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:	A14SE (E)	896	5	378804 415062
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A19NW (NE)	903	5	378517 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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)	908	5	377000 415299
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A12SW (W)	916	5	377000 415188
	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:	A18NE (N)	918	5	378124 416210

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 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:	A17NE (NW)	920	5	377297 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	927	5	378186 416203
	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:	A12SW (W)	947	5	377000 415028
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	954	5	378069 416257
	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:	A12SW (W)	955	5	377000 415000
	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:	A14SE (E)	964	5	378856 415000

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 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:	A17NW (NW)	980	5	377211 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A18NE (N)	985	5	378000 416295
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 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:	A17SW (NW)	992	5	377000 415712
31	BGS Recorded Mineral Sites Site Name: Redisher Farm Location: , Hazelhurst, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96045 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Huddersfield White Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	210	4	377730 415424
32	BGS Recorded Mineral Sites Site Name: Redisher Wood Location: , Hazelhurst, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96044 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Millstone Grit Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	312	4	377738 415573
33	BGS Recorded Mineral Sites Site Name: Top O'Th' Moor Location: , Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93995 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Millstone Grit Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	911	4	377790 416215
	BGS Measured Urban Soil Chemistry No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (SW)	0	6	377923 415299
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (SW)	0	-	377923 415299
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	12	4	377896 415311
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	57	4	377938 415369
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	77	4	377892 415387
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	79	4	378014 415269
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	140	4	377855 415442
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	152	4	377770 415374
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	162	4	377761 415378
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	4	377923 415299
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	4	377923 415299
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	156	4	378084 415237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	4	377923 415299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Contemporary Trade Directory Entries Name: Ian Stuart Location: Unit 1, Halter Inn Works, Holcombe Brook, Ramsbottom, Bury, Lancashire, BL0 9SA Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	377924 415302
34	Contemporary Trade Directory Entries Name: Holcombe Brook Garage Location: 402, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9RY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	29	-	377952 415261
35	Contemporary Trade Directory Entries Name: Carter Interiors Location: 407, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9RN Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	77	-	377955 415211
36	Contemporary Trade Directory Entries Name: Carlton Cleaners Location: 13, Holcombe Precinct, Ramsbottom, Bury, Lancashire, BL0 9SH Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	132	-	377965 415156
36	Contemporary Trade Directory Entries Name: Carlton Cleaners Location: 13, Holcombe Precinct, Ramsbottom, Bury, Lancashire, BL0 9SH Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	132	-	377965 415156
36	Contemporary Trade Directory Entries Name: Carlton Location: 13 Holcombe Precinct, Ramsbottom, Bury, Lancashire, BL0 9SH Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	137	-	377964 415151
37	Contemporary Trade Directory Entries Name: Herbert Fell Location: Ash Gr, Ramsbottom, Bury, Lancashire, BL0 9RS Classification: Textile Manufacturing Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A13SW (S)	210	-	377840 415090
38	Contemporary Trade Directory Entries Name: Dynowise Ltd Location: 22, Avondale Drive, Ramsbottom, Bury, Lancashire, BL0 9SJ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	297	-	377952 414989
39	Contemporary Trade Directory Entries Name: Aj Cleaning Services Location: 334, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9QY Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	299	-	378154 415514
40	Contemporary Trade Directory Entries Name: Compsey Creamery Location: 22, Helmsdale Close, Ramsbottom, Bury, Lancashire, BL0 9YR Classification: Cheese Makers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	356	-	378264 415445
41	Contemporary Trade Directory Entries Name: Wendys Windows Location: 45, Longsight Road, Ramsbottom, Bury, Lancashire, BL0 9SL Classification: Window Frames - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	364	-	378112 414967

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Contemporary Trade Directory Entries Name: A B Metal Solutions Location: 10, Hillstone Close, Greenmount, Bury, Lancashire, BL8 4EZ Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	443	-	377642 414937
43	Contemporary Trade Directory Entries Name: Bolton Business Forms Location: 439, Holcombe Road, Greenmount, Bury, Lancashire, BL8 4EL Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	473	-	377671 414881
44	Contemporary Trade Directory Entries Name: Cinderella Cleaning Services Location: 10, Wildwood Close, Ramsbottom, Bury, Lancashire, BL0 9SF Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	515	-	378257 415712
45	Contemporary Trade Directory Entries Name: Express Ironing Service Location: 9, Redwing Road, Greenmount, Bury, Lancashire, BL8 4ET Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	552	-	377858 414737
46	Contemporary Trade Directory Entries Name: Simply Clean Location: 25, Springwater Avenue, Ramsbottom, Bury, Lancashire, BL0 9TX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	566	-	378428 415006
47	Contemporary Trade Directory Entries Name: Bryan Stockley Location: 2, Westgate Avenue, Ramsbottom, Bury, Lancashire, BL0 9SS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	572	-	378134 414748
48	Contemporary Trade Directory Entries Name: Ironing Service Location: 235, Bolton Road West, Ramsbottom, BURY, Lancashire, BL0 9PS Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	588	-	378356 415721
49	Contemporary Trade Directory Entries Name: Maid It Clean Location: 20, Cemetery Road, Ramsbottom, Bury, Lancashire, BL0 9PU Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	630	-	378436 415693
50	Contemporary Trade Directory Entries Name: Feather Duster Location: 54, Longsight Road, Ramsbottom, Bury, Lancashire, BL0 9SZ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	638	-	378183 414697
50	Contemporary Trade Directory Entries Name: Westgate Joinery Location: Unit 4, Westgate Avenue, Ramsbottom, Bury, Lancashire, BL0 9SS Classification: Door Manufacturers - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	647	-	378164 414680
51	Contemporary Trade Directory Entries Name: Arvin Exhausts Ltd Location: Redisher Works, Holcombe Brook, Bury, Lancashire, BL8 4LX Classification: Exhaust System Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	651	-	378347 414780
52	Contemporary Trade Directory Entries Name: Steamline Location: The Flat, Redisher La, Hawkshaw, Bury, Lancashire, BL8 4HX Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	683	-	377228 415247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Contemporary Trade Directory Entries Name: Entwistle Fresh Farm Foods Location: 11, Beauly Close, Ramsbottom, Bury, Lancashire, BL0 9WB Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	723	-	378305 414663
54	Contemporary Trade Directory Entries Name: King Of The Road Location: 404, Holcombe Road, Greenmount, Bury, Lancashire, BL8 4HF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	742	-	377775 414558
55	Contemporary Trade Directory Entries Name: Helping Hands Domestic Cleaning Services Ltd Location: 40, Stanford Hall Crescent, Ramsbottom, Bury, Lancashire, BL0 9FD Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	829	-	378620 415777
55	Contemporary Trade Directory Entries Name: Helping Hands Location: 40, Stanford Hall Crescent, Ramsbottom, Bury, Lancashire, BL0 9FD Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	829	-	378620 415777
56	Contemporary Trade Directory Entries Name: Constructive Cleaning Services Location: Holcombe Old Rd, Holcombe, Bury, Lancashire, BL8 4NF Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	835	-	378052 416139
57	Contemporary Trade Directory Entries Name: Diamond Cleaning Nw Location: 18, Regent Street, Ramsbottom, Bury, Lancashire, BL0 9PF Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	844	-	378452 415977
57	Contemporary Trade Directory Entries Name: All Gleam Location: 12, Engel Close, Ramsbottom, Bury, Lancashire, BL0 9XU Classification: Oven cleaning Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	876	-	378482 415994
58	Contemporary Trade Directory Entries Name: Red Rose Cleaning Co Location: 8, Stanford Hall Crescent, Ramsbottom, Bury, Lancashire, BL0 9FD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	968	-	378737 415851
59	Contemporary Trade Directory Entries Name: Rowtec Ltd Location: 16, Newcombe Road, Ramsbottom, Bury, Lancashire, BL0 9UT Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	972	-	378426 414446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	Areas of Adopted Green Belt Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan Status: Adopted Plan Date: 29th August 1997	A13SW (W)	0	7	377911 415298
61	Local Nature Reserves Name: Redisher Wood Multiple Area: N Area (m2): 127242.37 Source: Natural England Designation Date: 28th March 2012	A13NW (NW)	182	9	377755 415411

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Blackburn with Darwen Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	July 2013 May 2013 November 2013 October 2013 September 2013	Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	November 2014	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	November 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department	April 2013 July 2014 July 2014 October 2013 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department	April 2013 July 2014 July 2014 October 2013 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department	April 2013 July 2014 July 2014 October 2013 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	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	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North West Region	November 2014	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	November 2014 November 2014 November 2014	Quarterly Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - North West Region	October 2014	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	November 2014	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	December 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2014	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2014	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2014	Quarterly
Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually

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 Environment Agency - North West Region - South Area	August 2014 August 2014 August 2014	Quarterly Quarterly 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 Environment Agency - North West Region - South Area	August 2014 August 2014 August 2014	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	November 2014 November 2014 November 2014	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2015	Bi-Annually
Explosive Sites Health and Safety Executive	October 2014	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Bolton Metropolitan Borough Council - Planning Department Rossendale Borough Council - Planning Department Blackburn with Darwen Borough Council Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council	December 2014 March 2014 May 2014 September 2013 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Rossendale Borough Council - Planning Department Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council	March 2014 May 2014 November 2014 September 2013 September 2014 September 2014	Annual Rolling Update Annual Rolling Update 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	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2014	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	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	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

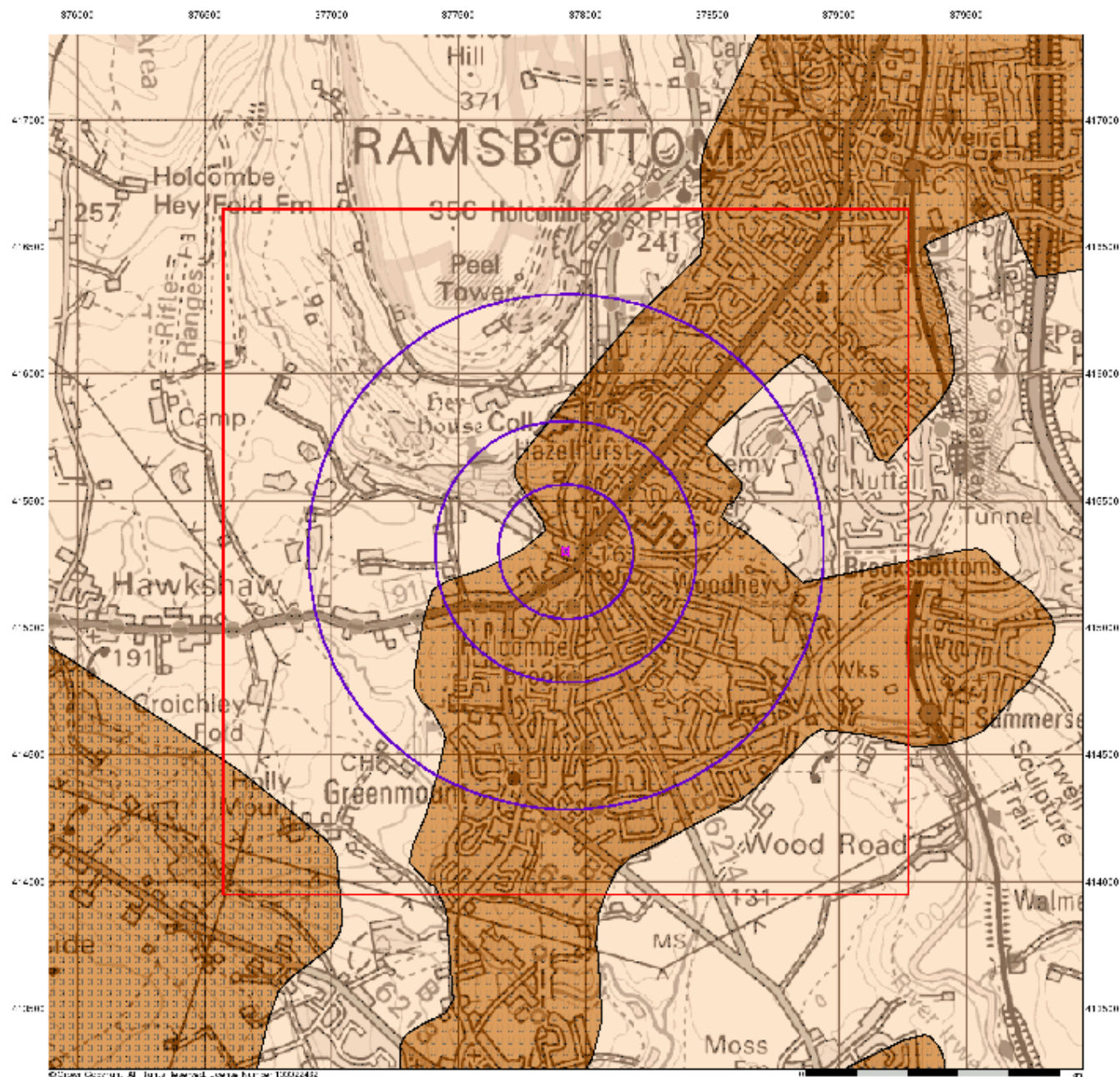
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2014	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	November 2014 November 2014 November 2014 November 2014 November 2014	As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	November 2014 November 2014 November 2014 November 2014 November 2014	As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	August 2014	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2014	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2014	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	September 2014	Bi-Annually
National Parks Natural England	August 2014	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)	July 2014	Annually
Ramsar Sites Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest Natural England	September 2014	Bi-Annually
Special Areas of Conservation Natural England	March 2014	Bi-Annually
Special Protection Areas Natural England	September 2014	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	Bury Metropolitan Borough Council - Environmental Health Department 3 Knowsley Place, Duke Street, Bury, Lancashire, BL9 0EJ	Telephone: 0161 253 5000 Fax: 0161 253 5563 Website: www.bury.gov.uk
4	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
5	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmark.co.uk
6	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
7	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
8	Blackburn with Darwen Borough Council Town Hall, Blackburn, Lancashire, BB1 7DY	Telephone: 01254 585585 Fax: 01254 680870 Website: www.blackburn.gov.uk
9	Natural England Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

Search Buffer
 Slice
 Boring Reference Point

Agency and Hydrological

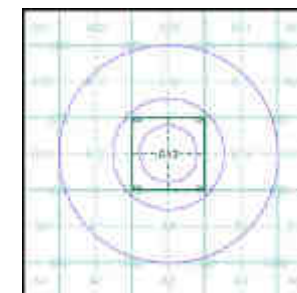
Geological Classes

Major Aquifer (Highly Permeable)
 Minor Aquifer (Variable Permeable)
 Non Aquifer (Negligibly Permeable)
 Urban Soil
 Drift Deposit

Soil Classes

High 1, 2, 3
 High 1, 2
 Low
 High 1, 2, 3
 High 1, 2
 Low
 Urban Soil
 Drift Deposit

Site Sensitivity Context Map - Slice A



Order Details

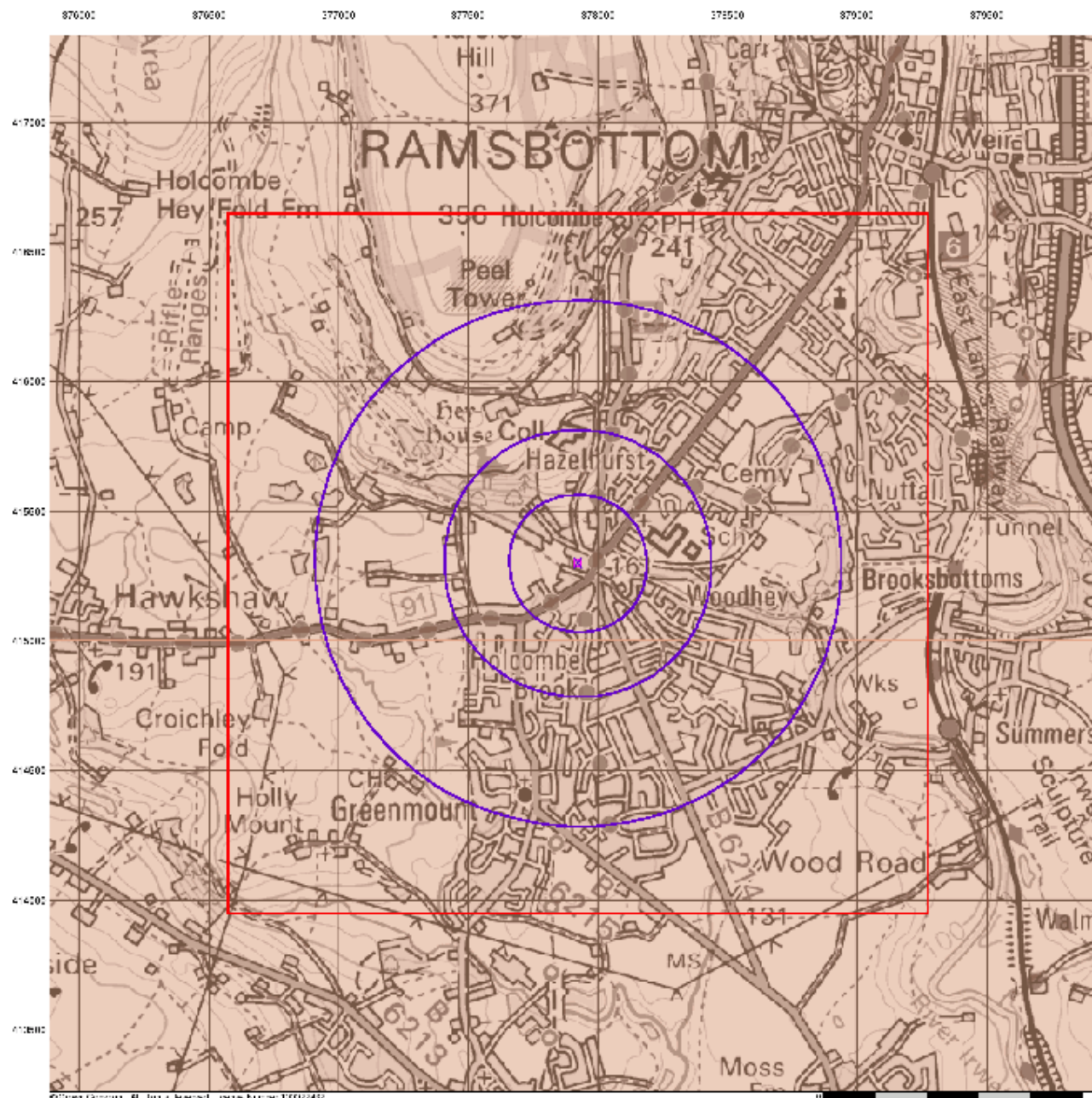
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works, Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



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 Fax: 0844 844 9951
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Bedrock Aquifer Designation

General

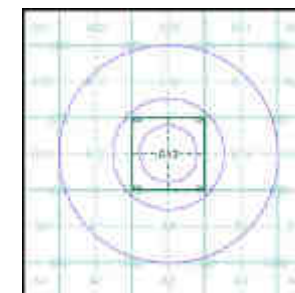
- Boring Reference Point
- Search Buffer (m)
- Slice
- Road

Agency and Hydrological

Geological Classes

- Primary Gneiss
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary C Aquifer
- Unconsolidated Gravel
- Alluvium

Site Sensitivity Context Map - Slice A



Order Details

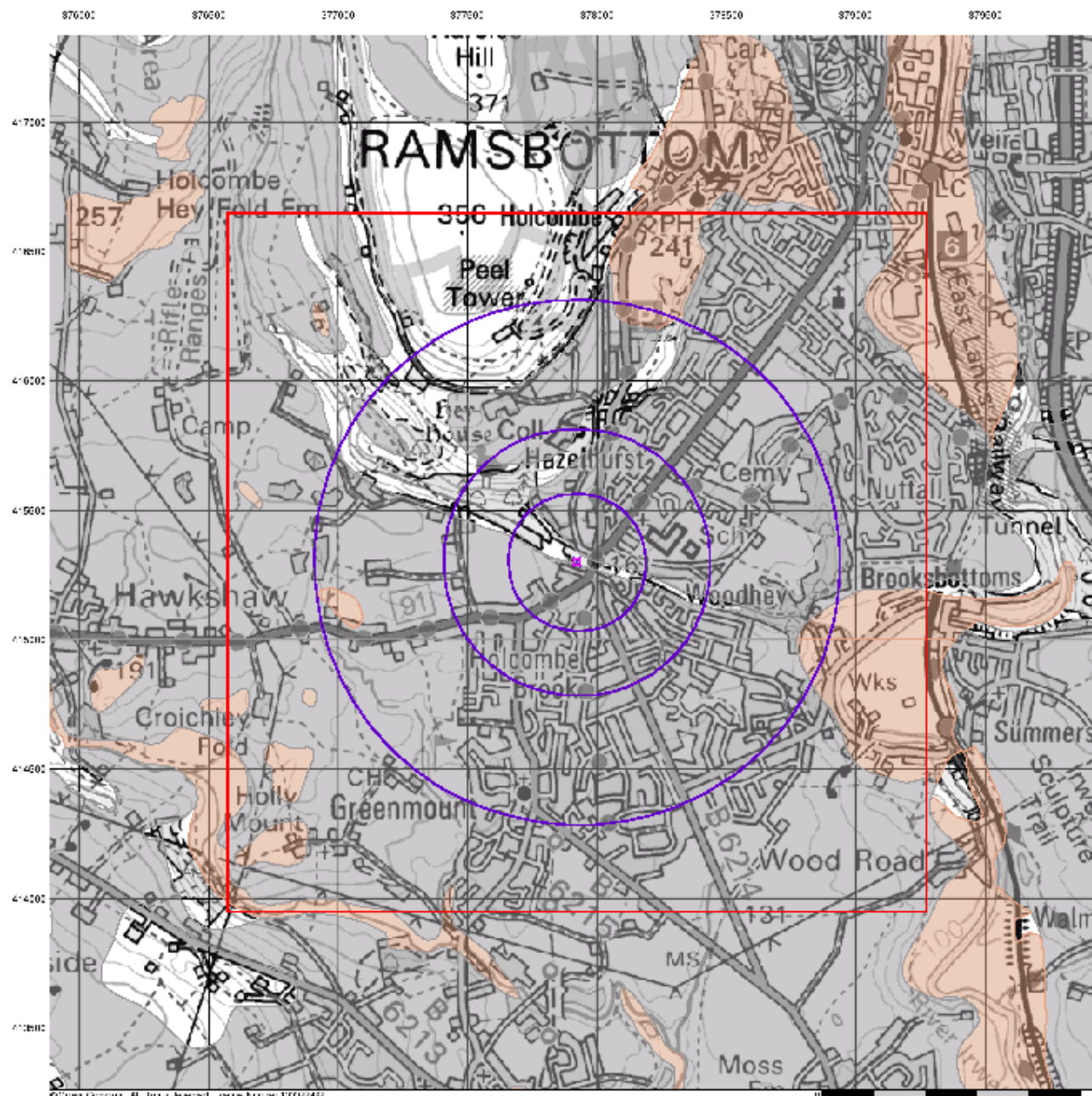
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

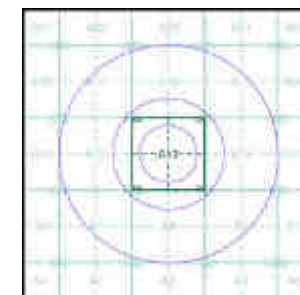
- Boundary Line
- Search Buffer (m)
- Boring Reference Point
- Slice
- Road

Agency and Hydrological

Geological Classes

- Primary Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary C Aquifer
- Unconsolidated Gravel
- Alluvium

Site Sensitivity Context Map - Slice A



Order Details

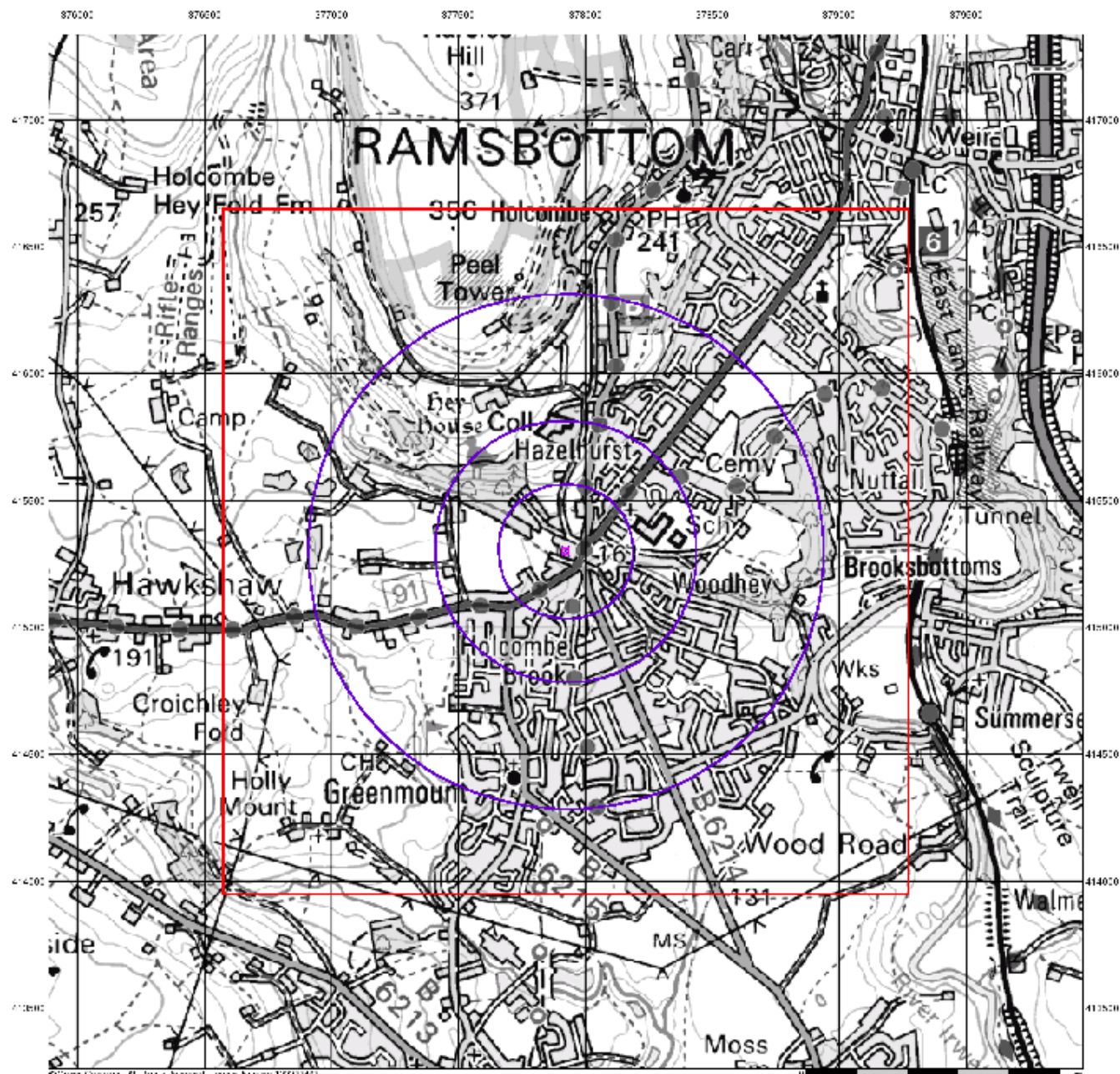
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

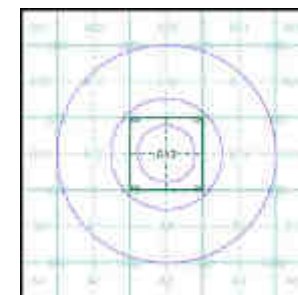
General

- Boundary Line
- Search Buffer (m)
- Existing Reference Point
- Slice
- Road

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Watercourse Affected
- Source Protection Zone Buffer

Site Sensitivity Context Map - Slice A



Order Details

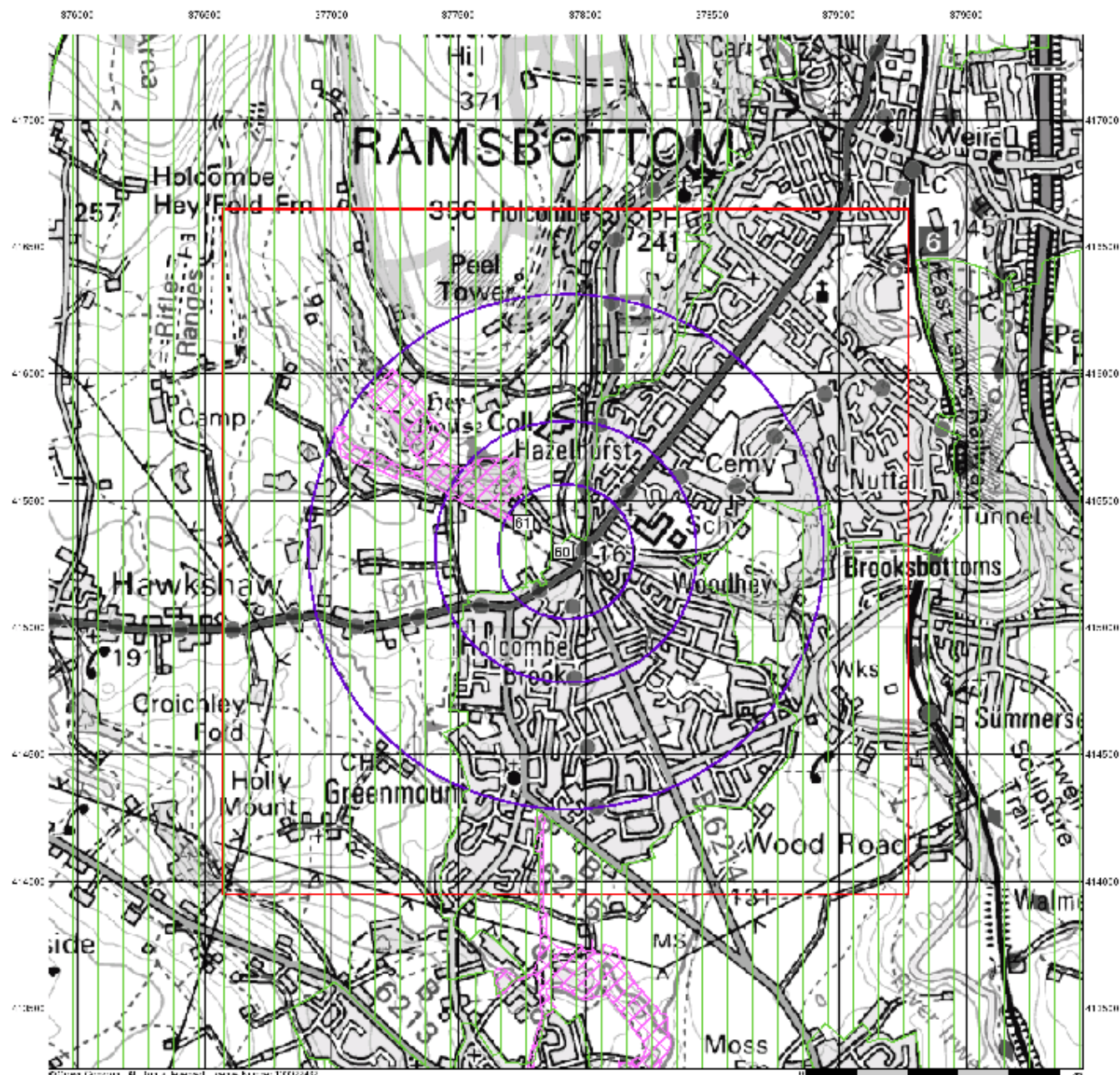
Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

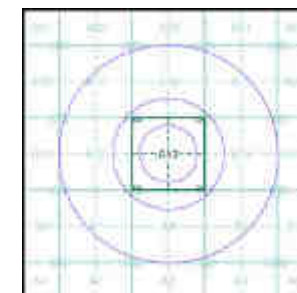
General

- Sensitive Site
- Search Buffer
- Bearing Reference Point
- Slice
- Road

Sensitive Land Uses

- Area of Ancient Green Field
- Area of Ancient Woodland
- Ancient Farmstead/Building
- Locally Important Landscape Area
- Flood Plain
- Local Nature Heritage
- Marine Nature Reserve
- National Nature Reserve
- Local Park
- Multiple Landscape Area
- Sensitive Landscape Area
- Scheduled Land
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Flood Risk Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Cenozoic - Cenozoic
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	HEAD	Head	Diamicton	Quaternary - Quaternary
	PEAT	Peat	Peat [Unlithified Deposits Coding Scheme]	Quaternary - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	GNR	Ganister Rock	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian - Langsettian
	WH	Woodhead Hill Rock	Sandstone	Langsettian - Langsettian
	GAS	Great Arc Sandstone	Sandstone	Langsettian - Langsettian
	HER	Helpet Edge Rock	Sandstone	Langsettian - Langsettian
	OL	Old Lawrence Rock	Sandstone	Langsettian - Langsettian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MLRS	Minrow Sandstone	Sandstone	Langsettian - Langsettian
	ON	Ousel Nest Grit	Sandstone	Langsettian - Langsettian
	ROSSE	Rossendale Formation	Mudstone and Siltstone	Yeadonian - Yeadonian
	LH	Lower Haslingden Flags	Sandstone	Yeadonian - Yeadonian
	UH	Upper Haslingden Flags	Sandstone	Yeadonian - Yeadonian
	RR	Rough Rock	Sandstone	Yeadonian - Yeadonian
	HLBG	Holcombe Brook Grit	Sandstone	Marsdenian - Marsdenian
	MARSD	Marsden Formation	Mudstone and Siltstone	Marsdenian - Marsdenian
	BBS	Brooksbottoms Grit	Sandstone	Marsdenian - Marsdenian
	GSYG	Guisley Grit	Sandstone	Marsdenian - Marsdenian
	FLB	FLETCHER BANK GRIT	Sandstone	Marsdenian - Marsdenian
		Rock Segments		
		Faults		



Geology 1:50,000 Maps

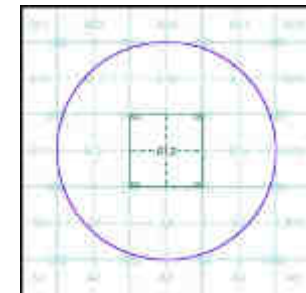
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	076
Map Name:	Rochdale
Map Date:	2008
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

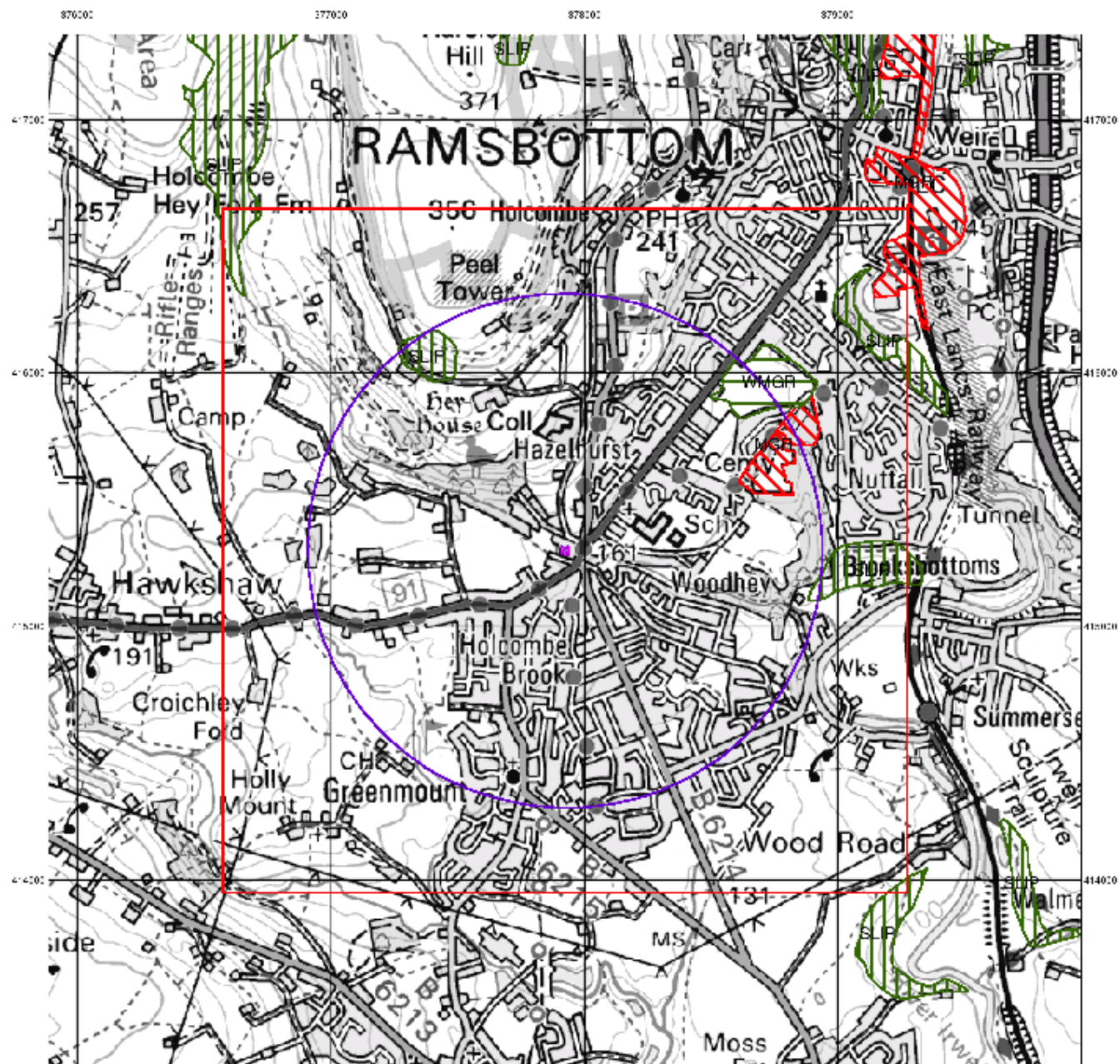
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Customer Reference:	LKC 14 1496
National Grid Reference:	377920, 415300
Slice:	A
Site Area (Ha):	0.07
Search Buffer (m):	1000

Site Details:

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Artificial Ground and Landslip

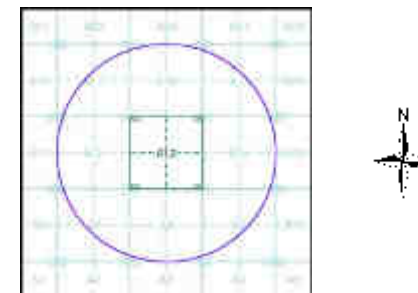
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

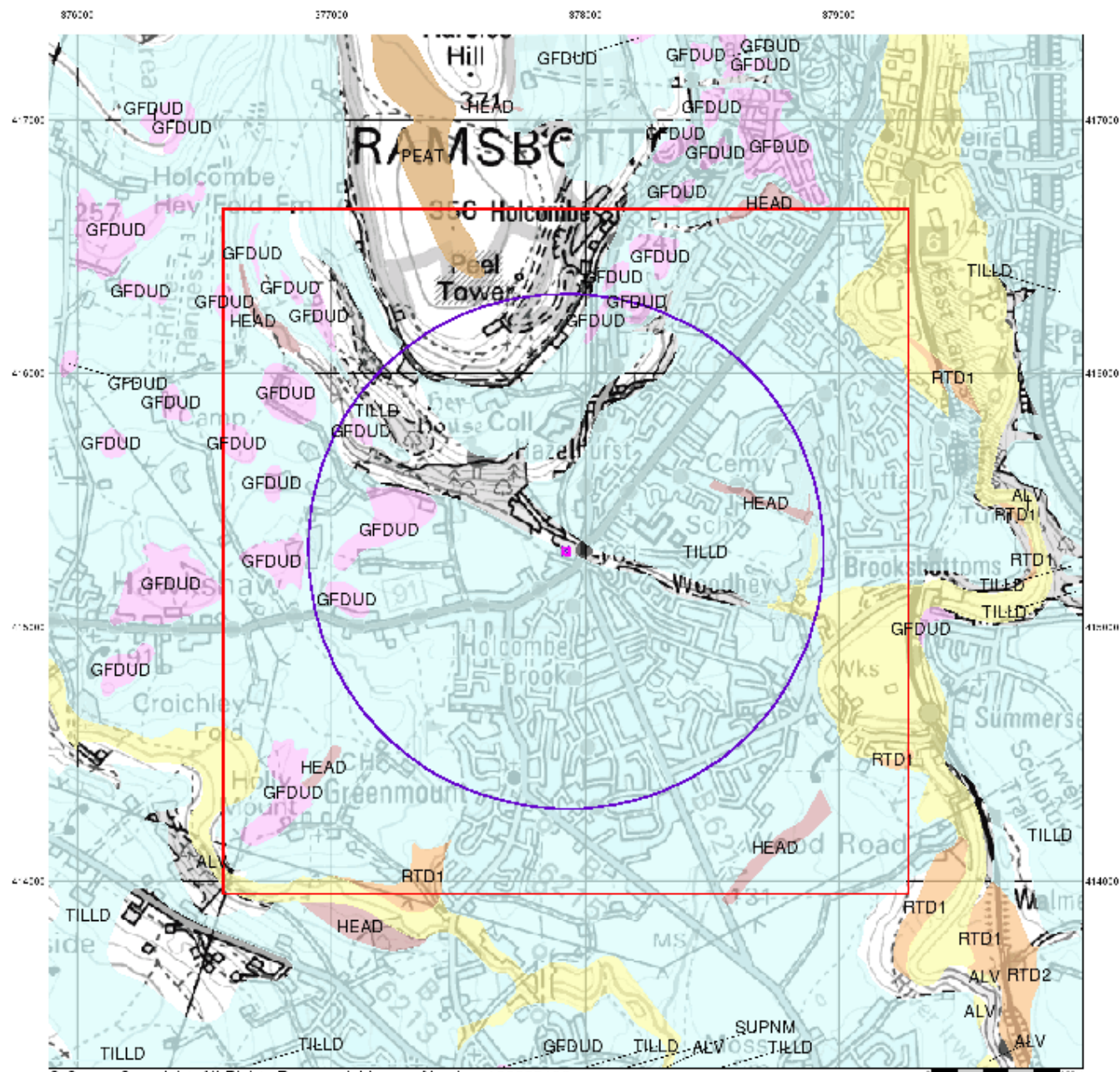
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Customer Reference: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details:

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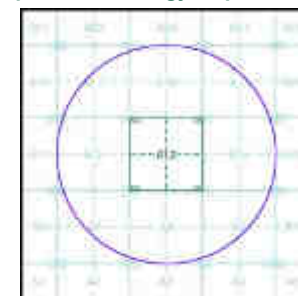
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

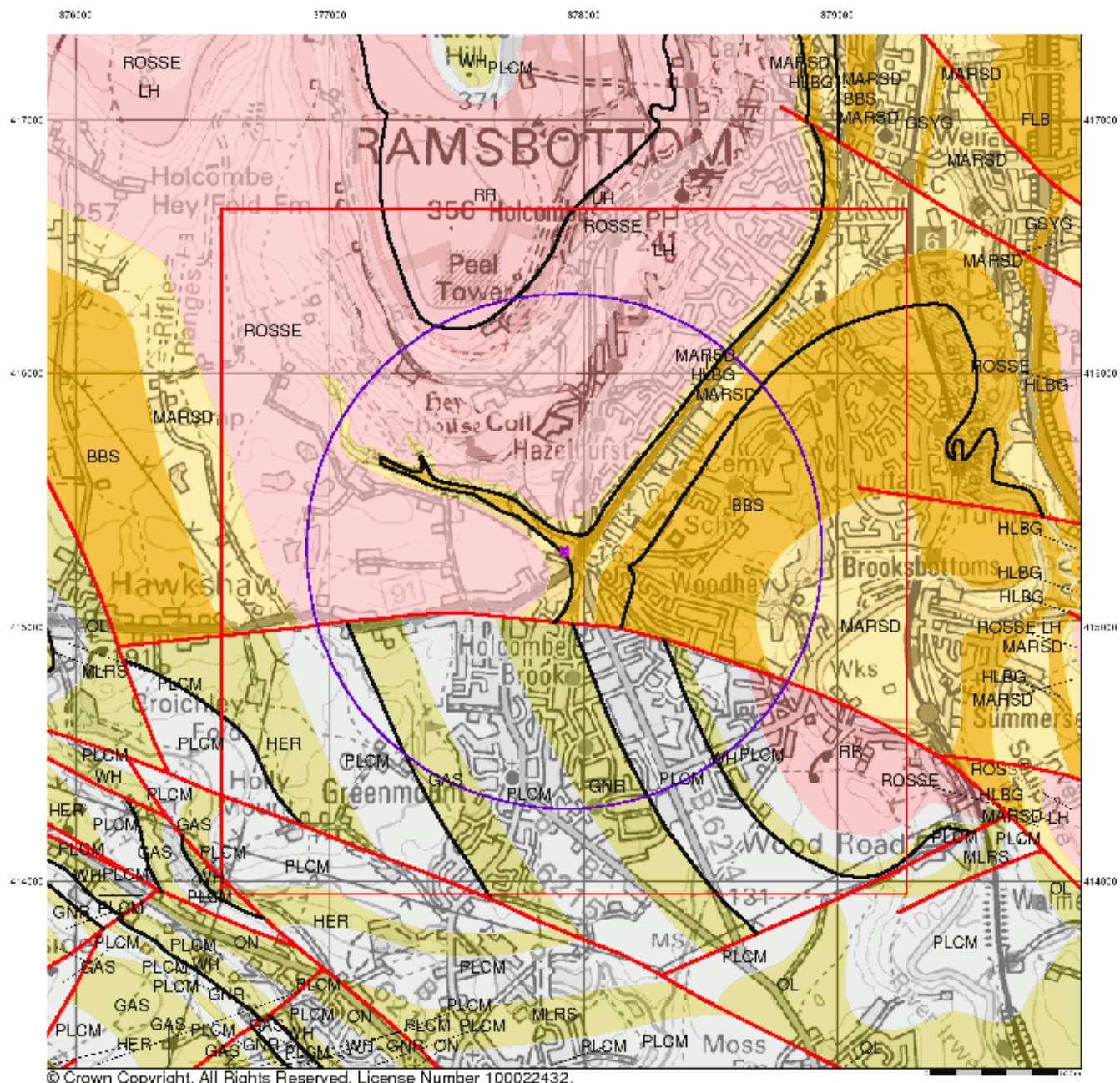
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Customer Reference: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

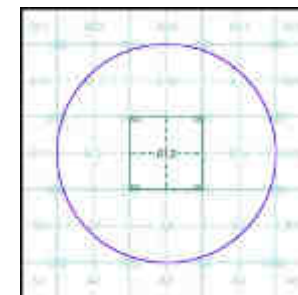
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

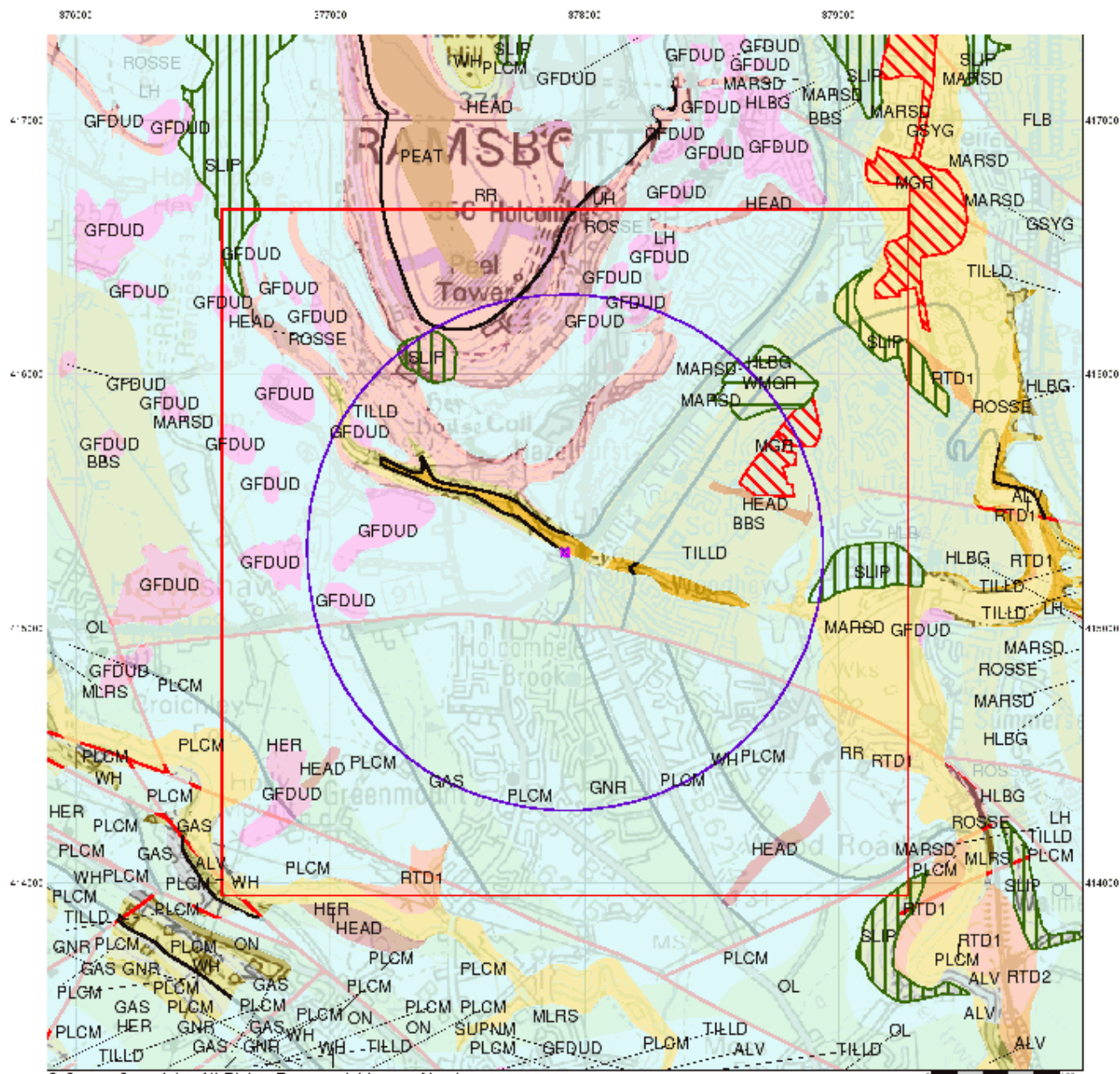
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Customer Reference: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details:

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works, Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



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Combined Surface Geology

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

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

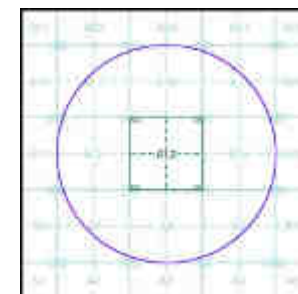
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

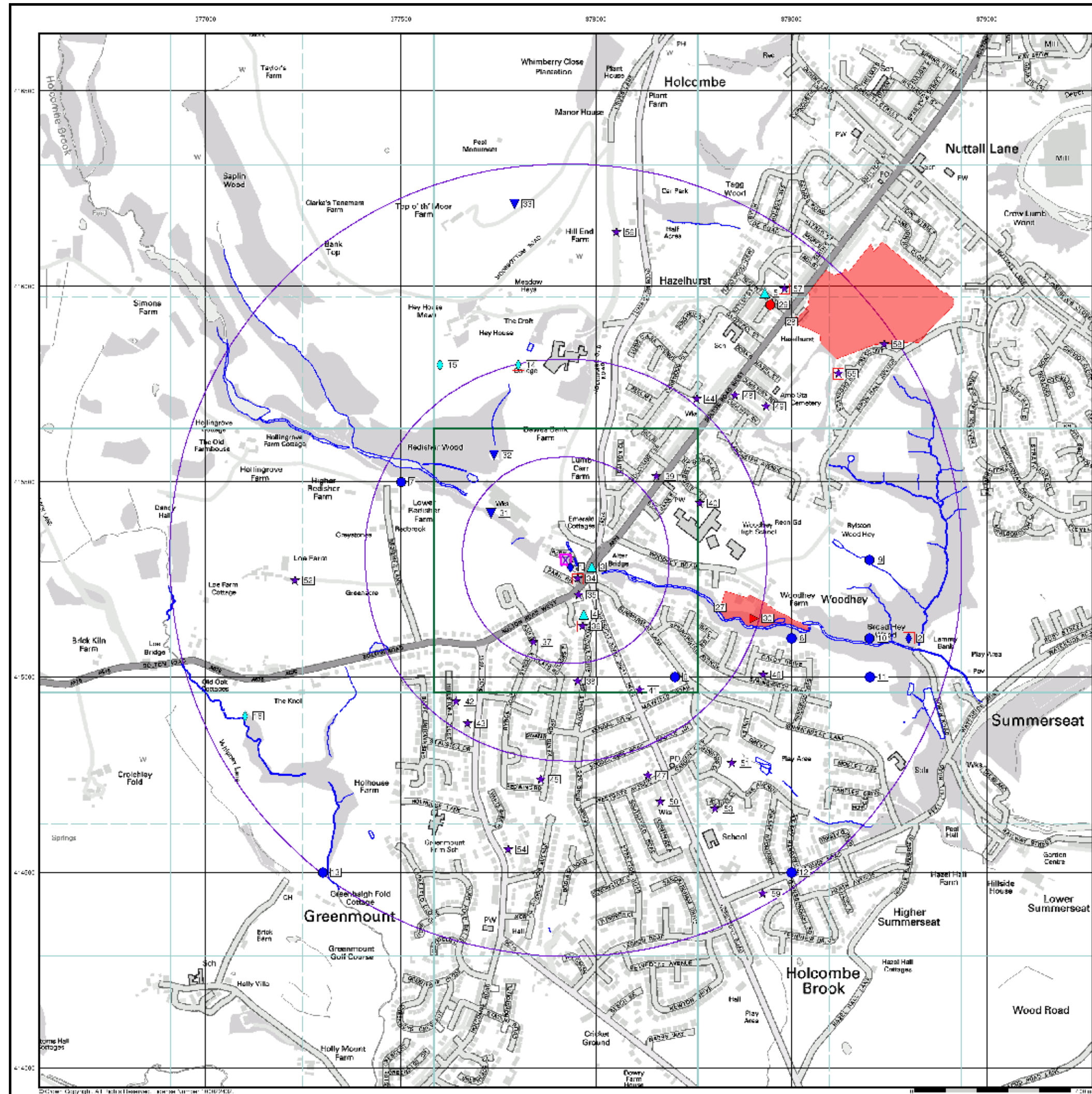
Order Number: 63514826 1.1
Customer Reference: LKC 14 1496
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Slice: A
Site Area (Ha): 0.07
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General

- ☒ Spectral shift ☐ Spectral shift (neg) ☒ Absorbing the emission ☐ Map ☐

Agency and Hydrological

- [illegible]

Waste

-  Local - Recorded - until 1960 (not used)
-  Local - Recorded - until 1960
-  Local - until 1960 (Unfilled Row)
-  Local - until 1960 (Foggy)
-  Mapset - Point - Central Register - no
Index file
-  Current, Single Management Facility -
Land Use System
-  Recorded 1960 and 1970 - until 1960 (not used)
-  Local - Jointly Produced - Land Use Data (Record)
-  Local - Jointly Produced - Land Use Data

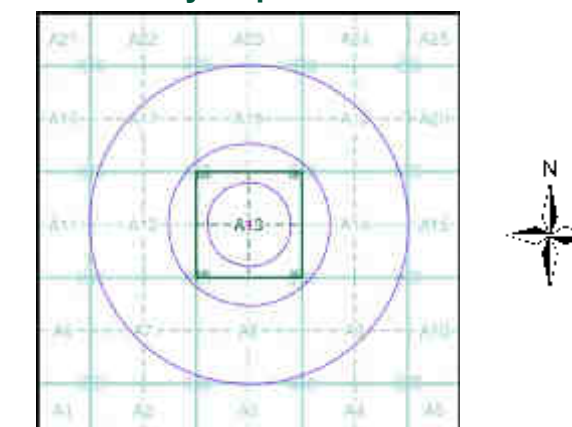
Geological

- Substructure: Mineral oil
 Explosive fill

Industrial Land Use

- ★ **Planning boundaries:** ...

Site Sensitivity Map - Slice A



Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



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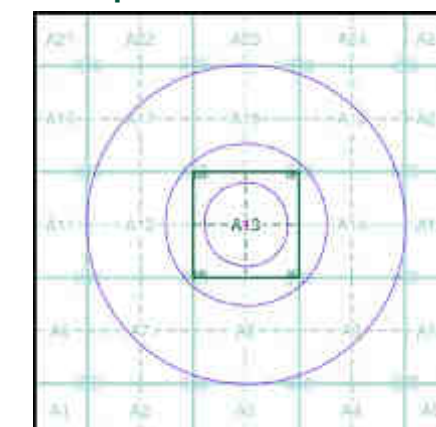
General

- Study Area
- Search Buffer
- Data Collection Point

Agency and Hydrological (Flood)

- Flooded Area (from Data or Forecasted Data)
- Flooded Area (from Data or Forecasted Data)
- Area Requiring Flood Defence
- Floodable Area
- Flood Boundary

Flood Map - Slice A

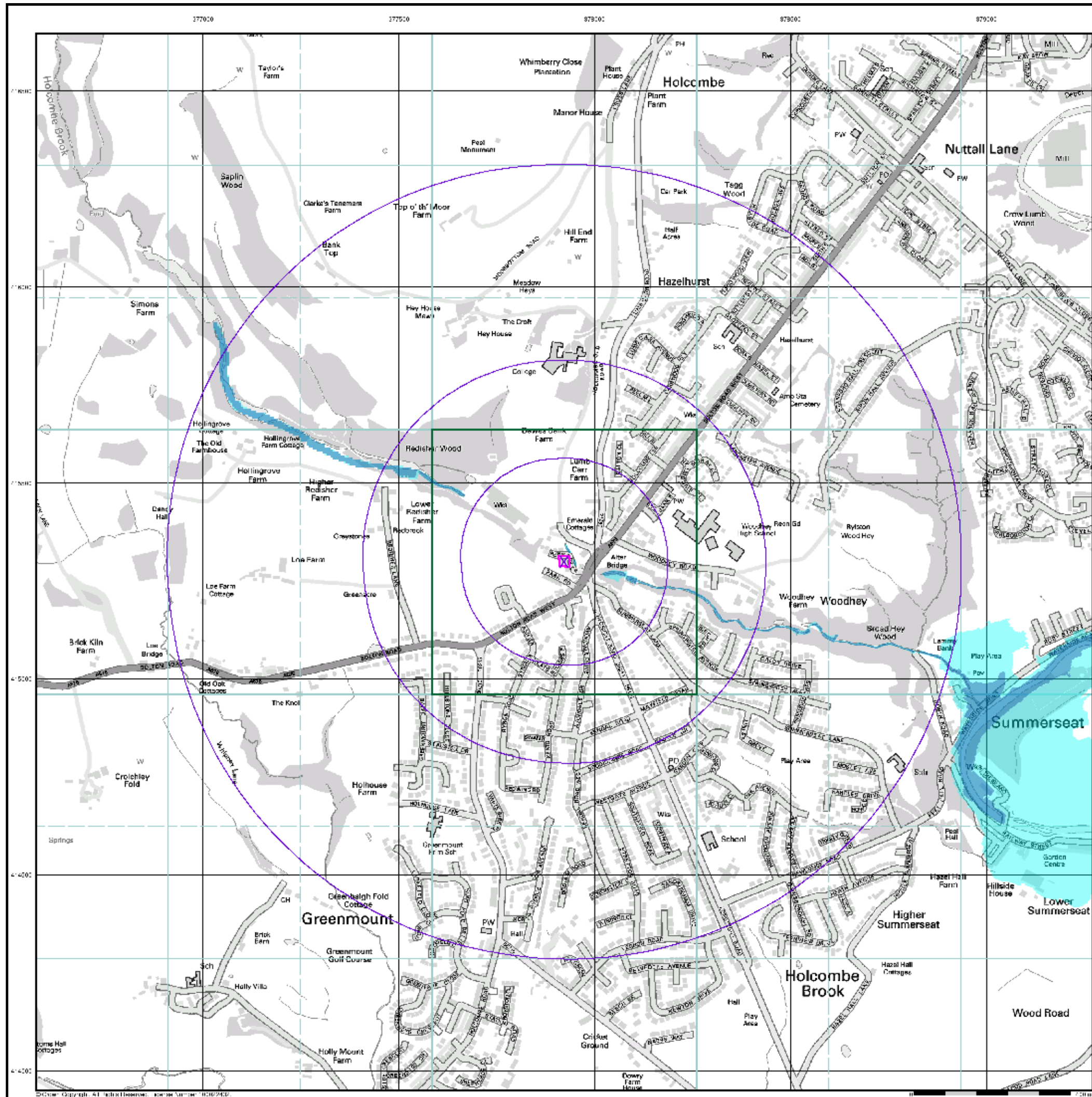


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



General

- Study Area
- Search Buffer
- Borehole Location
- Map 7
- Boundary of Local Authority

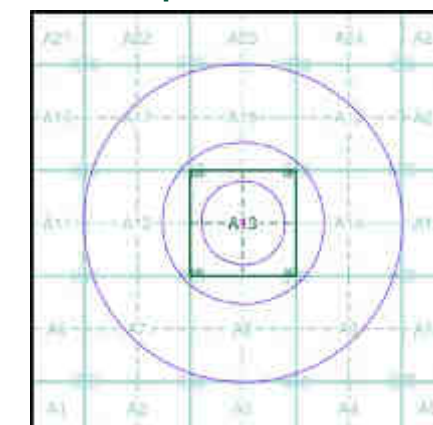
Agency and Hydrological (Boreholes)

- Borehole (Agency)
- Borehole (Hydrological)
- Borehole (Other)
- Contaminated
- Other

For Borehole information please refer to the Borehole datasheet 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

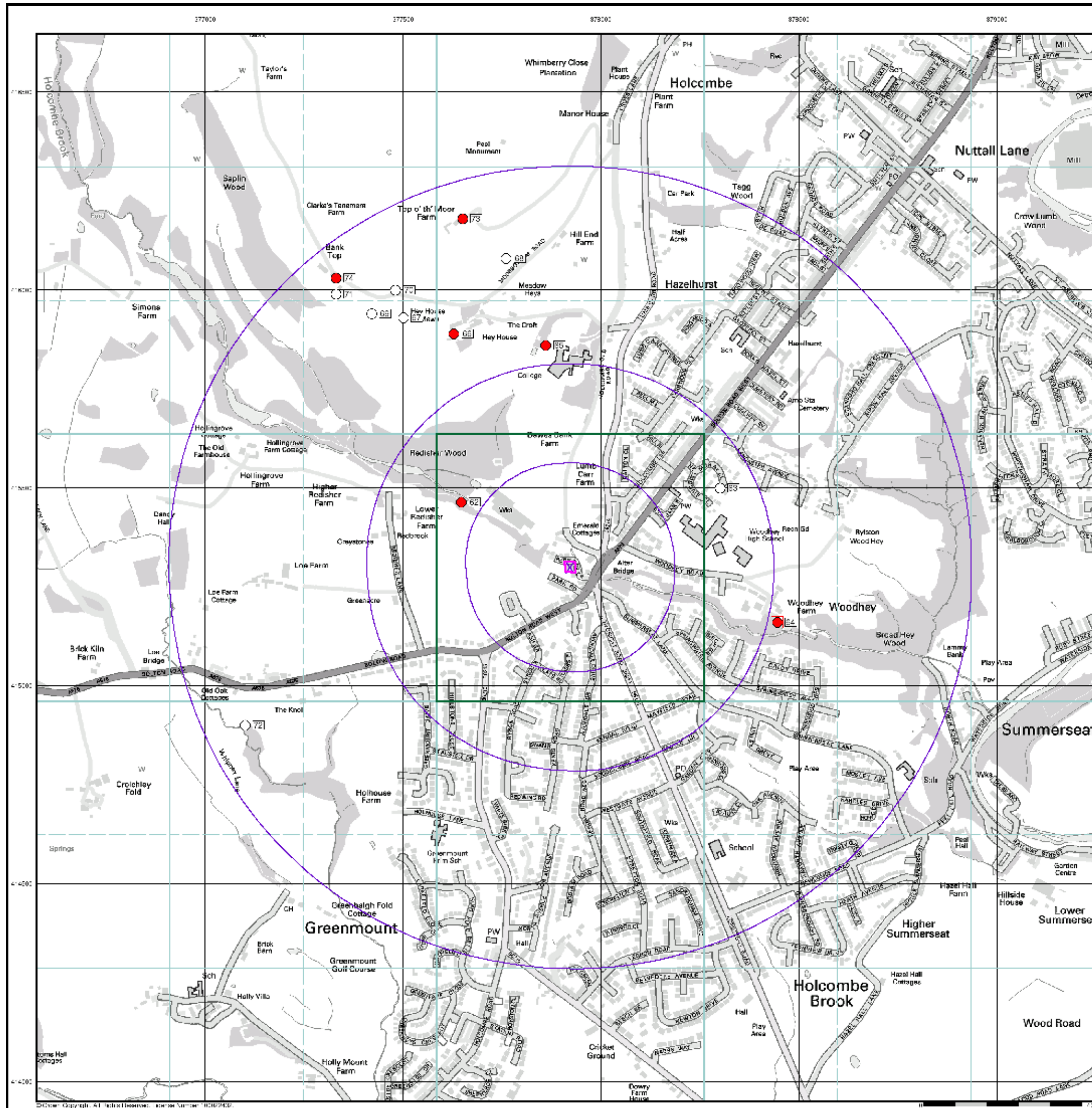


Order Details

Order Number: 63514826_1_1
Customer Ref: LKC 14 1496
National Grid Reference: 377920, 415300
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



General

- General Flow
- Surface Water
- Flow to Drainage Point
- Map 1

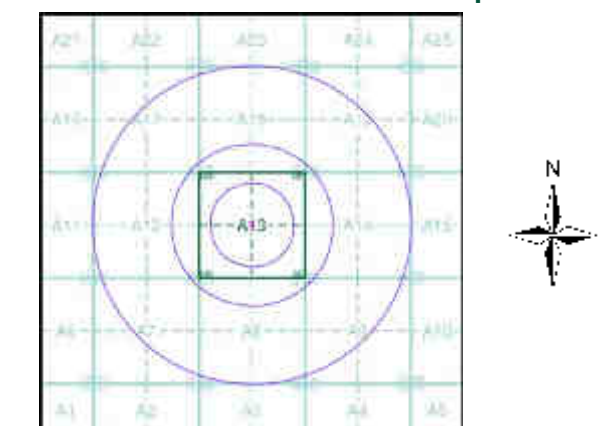
Detailed River Network Data

- | | |
|--------------------|-----------------------------|
| Primary Flow | Federal Catchment (A101) |
| Secondary Flow | Underpinned (Free Soil) |
| Tertiary Flow | Underpinned (Solid Rock) |
| Canal | Underpinned (Highly Stable) |
| Canal Tunnel | Underpinned (Stable) |
| Interim Flow | Not Assigned |
| Canal Tunnel | |
| Drainage Collector | |

Contours (Height in metres)

- | | | |
|-------------------|------|-----------------|
| Primary Contour | 100m | Mean Low Water |
| Secondary Contour | 100m | Mean High Water |
| Spot High | 100m | |

EANRW Detailed River Network Map - Slice A

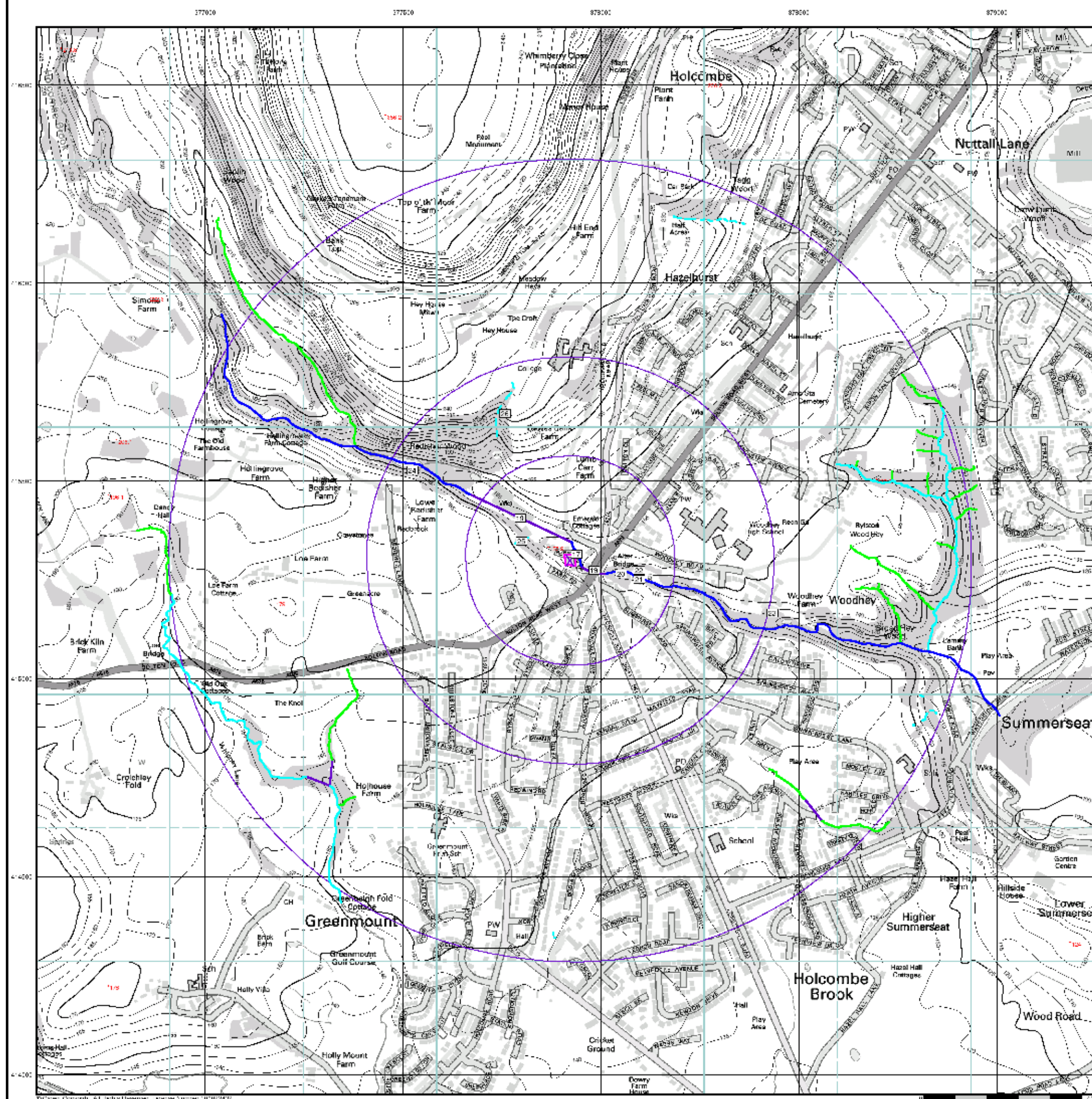


Order Details

Order Number: 63514826_1_1
 Customer Ref: LKC 14 1496
 National Grid Reference: 377920, 415300
 Slice: A
 Site Area (Ha): 0.07
 Search Buffer (m): 1000

Site Details

Finishing Techniques Ltd, Unit 1-2, Halter Inn Works,
 Holcombe Brook, Ramsbottom, BURY, Lancashire, BL0 9SA



APPENDIX C

COAL AUTHORITY REPORT

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP
LIMITED
SOWTON INDUSTRIAL ESTATE
ABBAY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY**

Our reference: **51000746490001**
Your reference: **63514826_2|**
Date of your enquiry: **15 January 2015**
Date we received your enquiry: **15 January 2015**
Date of issue: **15 January 2015**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

**FINISHING TECHNIQUES LTD, HALTER INN WORKS, UNIT 1-2 HOLCOMBE BROOK,
RAMSBOTTOM, BURY, LANCASHIRE,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

According to the records in our possession, the property is not within the zone of likely physical influence on the surface from past underground workings.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

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

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

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

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

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

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

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

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

APPENDIX D

SITE RECONNAISSANCE PLAN, PHOTOGRAPHS AND PROFILE LOGS

Site Reconnaissance – Halter Inn Works, Holcombe



Photograph 1 (P1)
Concrete yard to south of current building.
IBCs are noted to be present.



Photograph 2 (P2)
Tarmacadam drive to the north of the
existing building.



Photograph 3 (P3)
IBCs stored on tarmacadam area to the north
of the existing building.



Photograph 4 (P4)
Vegetated area present above the retaining
wall to the west of the existing building.



Photograph 5 (P5)
Open section of Holcombe Brook to the east
of site.



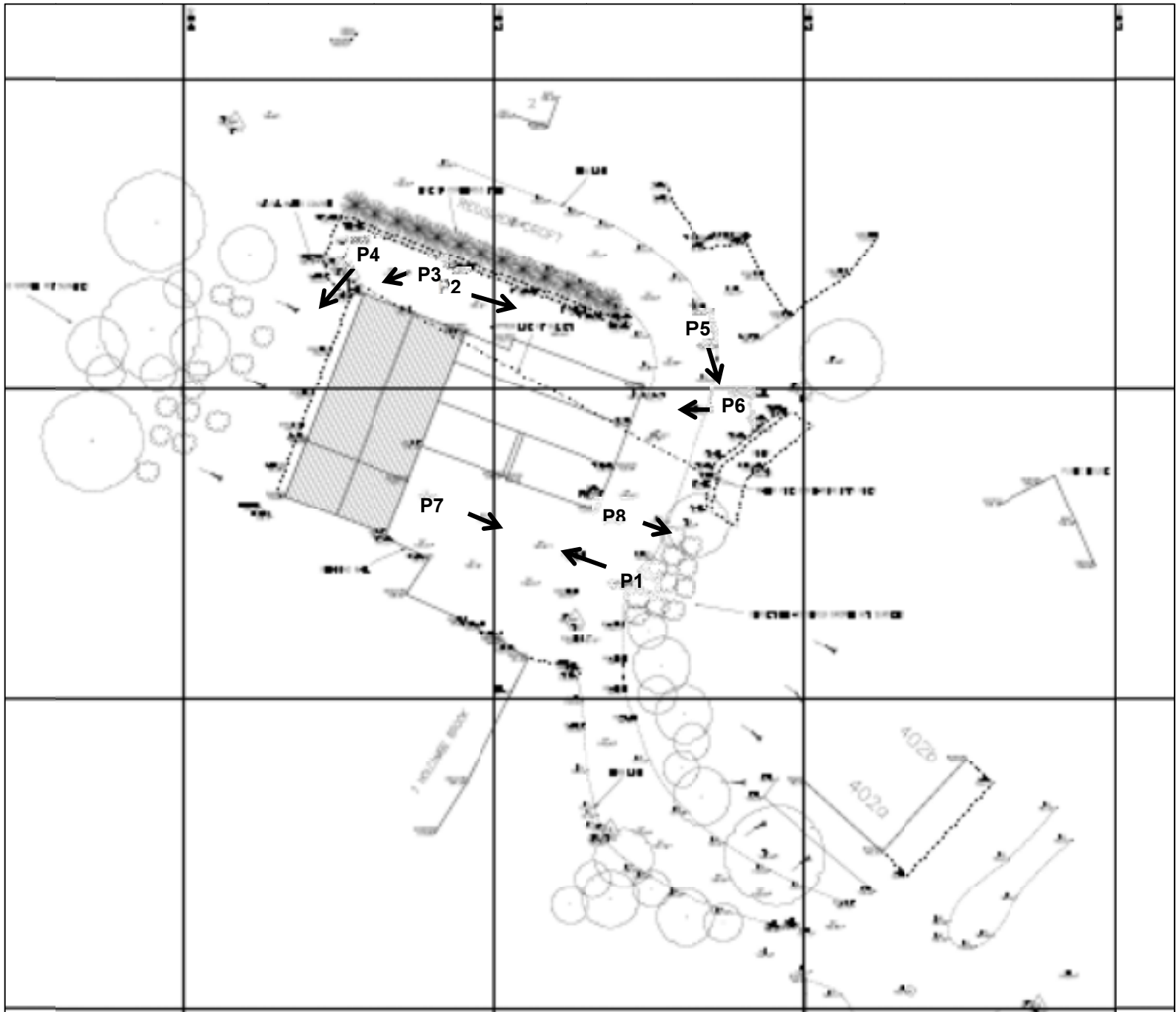
Photograph 6 (P6)
View of existing works with elevated ground
to the west visible.



Photograph 7 (P7)
Concrete yard to the south of the existing
building currently used for car parking.



Photograph 8 (P8)
Manhole covers associated with culverted
watercourse visible adjacent to site.



Not to Scale

APPENDIX E

RISK EVALUATION

Risk Evaluation

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552¹⁵. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table F-1).
- Magnitude of the probability (likelihood) of the risk occurring (Table F-2).

Consequence (Severity)		
Classification	Definition	Example
Severe	- Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. - Short term risk of pollution (note: water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. - Catastrophic damage to buildings/properties. - A short term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definition of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	- High Concentrations of cyanide on the surface of an informal recreation area. - Major spillage of contaminants from site into controlled waters. - Explosion, causing building collapse (can also equate to short term human health risk if buildings are occupied).
Medium	- Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). - Pollution of sensitive water resources (note Water Resources Act contains no scope for considering significance of pollution). - A significant change in a particular ecosystem, or organism forming part of such ecosystem.	- Concentrations of a contaminant from site exceed generic, or site specific assessment criteria. - Leaching of contaminants from a site to a major or minor aquifer (Principal and Secondary). - Death of a species within a designated nature reserve.
Mild	- Pollution of non-sensitive water resources. - Significant damage to crops, buildings, structures and services ('significant harm' as defined in DETR, 2000). - Damage to sensitive buildings/structures/services or the environment.	- Pollution of non-classified groundwater. - Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	- Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. - Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). - Easily repairable damage to buildings, structures and services.	- The presence of contaminants at such concentrations that protective equipment is required during site works. - The loss of plants in a landscaping scheme. - Discoloration of concrete.

Table F-1. Classification of Consequence

¹⁵ CIRIA C552 (2001) Contaminated Land Risk Assessment - A guide to good practice.

Probability (Likelihood)	
Classification	Definition
High Likelihood	- There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	- There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. - Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	- There is a pollutant linkage and circumstances are possible under which an event could occur. - However it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	- There is a pollutant linkage but circumstances are such that it is improbable that an event would occur in the very long term.

Table F-2. Classification of Probability.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table F-3). It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table F-3. Comparison of Consequence against Probability

Once the risk has been determined the corresponding action can be assessed (**Table F-4**).

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

Table F-4. Description of the Classification and Likely Action Required.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

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