

Condition 4

4. No development shall commence unless and until: -

- A contaminated land Preliminary Risk Assessment report to assess the actual/potential contamination and/or ground gas/landfill gas risks at the site shall be submitted to, and approved in writing by, the Local Planning Authority;
- Where actual/potential contamination and/or ground gas/landfill gas risks have been identified, detailed site investigation and suitable risk assessment shall be submitted to, and approved in writing by the Local Planning Authority;
- Where remediation/protection measures is/are required, a detailed Remediation Strategy shall be submitted to, and approved in writing by, the Local Planning Authority.
 - o A preliminary geoenvironmental appraisal is attached below

**PRELIMINARY GEOENVIRONMENTAL APPRAISAL
OF LAND AT
CARR BANK LODGE, RAMSBOTTOM**

**Prepared for
GRAHAM SCHOFIELD ASSOCIATES**



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SUMMARY OF GEOENVIRONMENTAL ISSUES

The site exists as a roughly square parcel of undeveloped land covering a total area of approximately 0.1 hectare. The site is accessed via an informal roadway located off Ramsbottom Lane, Ramsbottom, Bury (OS Grid Ref: 379090E, 417050N).

Ground levels vary substantially across the site. The north midpoint of the site is a topographical high point, with a relatively sharp decrease in ground levels to the east and west, and a gentle decrease north to south. Retaining walls are present at the southern, eastern and western boundaries. A number of mature and semi-mature deciduous trees are present on the site, which is bordered by a residential property to the north and Carr Bank Lodge to the south. An informal roadway borders the west of the site, and Ramsbottom Lane lies to the east.

The site is under consideration for residential development of 1No. dwelling with a private garden. A degree of cut and fill works is required to achieve proposed finished floor levels for the proposed dwelling, and exterior ground levels for the private garden. The proposal includes removal of existing trees and new planting along the east boundary.

ALM have been commissioned by Graham Schofield Associates to carry out a preliminary geoenvironmental appraisal of the site. A summary of salient geoenvironmental issues is provided in the Table below.

Issue	Remarks
Made Ground	- Made ground soils are not anticipated to be present on the site.
Natural Ground	- A veneer of naturally occurring topsoil is likely to be present across the surface of the site. - Geological maps indicate that superficial deposits of Glacial Till are likely to underlie topsoil. A nearby BGS borehole indicates Till is likely to comprise silty slightly sandy gravelly clay, with potential sand lenses. Shallow deposits may have soft shear strengths, becoming firm to stiff with depth. - Bedrock beneath the site is indicated to comprise sandstone of the Brooksbottoms Grit geological unit.
Groundwater	- Superficial deposits are designated as a Secondary B Undifferentiated Aquifer. A shallow groundwater table (<3m) is not anticipated to be present. Non-continuous perched groundwater pockets may be present at shallow depth in Till deposits. - Bedrock is designated as a Secondary A Aquifer. The study site is not located in a groundwater Source Protection Zone. There are no nearby potable water abstractions. There are a number of nearby groundwater abstractions for industrial processing.
Mining & Quarrying	- The study site is located in a coal mining reporting area. There are no recorded mine entries within 20m of the site. The Coal Authority does not consider the site to be in a surface area which may be affected by recorded historical underground coal mining. - There are no non-coal mining areas located within 500m of the site boundary. There are no brine affected areas within 75m of the study site.
Hazardous Gas and Radon	- A historical landfill located 418m to the southeast has been identified as a potential source of ground gas. No credible pathway has been identified between the former landfill and relevant site receptors. - BGS radon maps (2022) indicate that the site is in the lowest band for radon potential, with less than 1% of homes at or above the Action Level. Basic radon protective measures are not required for new buildings.
Preliminary Risk Assessment	- No on-site sources of contamination have been identified. - There is credible contaminant linkage between potential off-site sources of ground gas/contamination and relevant site receptors.
Surface Water and Flooding	- The site is located in a Flood Zone 1 and is considered to be at low risk of flooding.

Further Works – An intrusive ground investigation is recommended to:

- Characterise the chemical nature of site soils for disposal or reuse on site;
- Inform foundation design by identifying the depth of suitable bearing strata and assessing the volume change potential of cohesive strata below the proposed plot, following removal of on-site trees.

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APPENDICES

Appendix A - General Notes

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02	Ground Investigation Fieldwork
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04	Contamination Laboratory Analysis & Interpretation (including WAC)
05	Hazardous Gas

Appendix B – Drawings

Drawing No.	Title
30359/1	Site Location Plan
03B	Proposed Site Plan (SSHARC Ltd)
09A	Proposed Section Window Jamb Detail (SSHARC Ltd)
30359/2	Site Features & Photograph Location Plan
30359/3	Conceptual Site Model

Appendix C – Selected Photographs

Appendix D – Historical Ordnance Survey Maps

Appendix E – British Geological Survey Boreholes

Appendix F – Envirocheck Report

From	To	Date	Content
Landmark Information Group	ALM Consult Ltd	14/03/2024	Envirocheck Report

Appendix G – CON29M Coal Mining Report

From	To	Date	Content
Landmark Information Group	ALM Consult Ltd	14/03/2024	CON29M Coal Mining Report

FOREWORD

This report has been prepared for the sole internal use and reliance of the Client and any of their nominated third parties. This report shall not be relied upon or transferred to any other parties without the express authorisation of the Client or ALM Consult Ltd (ALM); such authorisation not to be unreasonably withheld. If any unauthorised third party comes into possession of this report, they rely on it at their peril and the authors owe them no duty of care and skill.

The report presents observations and factual data obtained during ground investigation works that have been specified, designed and undertaken by others, and provides an assessment of geoenvironmental issues with respect to information provided by the Client regarding the proposed development. Further advice should be sought from ALM prior to significant revision of the development proposals.

The report should be read in its entirety, including all associated drawings and appendices. ALM cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The findings and opinions conveyed in this report (including review of any third party reports) are based on information obtained from a variety of sources as detailed within this report, and which ALM believes are reliable. All reasonable care and skill has been applied in examining the information obtained. Nevertheless, ALM cannot and does not guarantee the authenticity or reliability of the information it has relied upon and ALM shall not be held liable for the scope and appropriateness of investigations undertaken by others, the information from which has been utilised in preparing this report.

The report represents the findings and opinions of experienced geo-environmental consultants. ALM does not provide legal advice and the advice of lawyers may also be required.

Intrusive investigation can only investigate shallow ground beneath a small proportion of the total site area. It is possible therefore that the intrusive investigation undertaken at the site by others, whilst fully appropriate, may not have encountered all significant subsurface conditions. Consequently, no liability can be accepted for conditions not revealed by the exploratory holes. Any opinion expressed as to the possible configuration of strata between or below exploratory holes is for guidance only and no responsibility is accepted as to its accuracy.

It should be borne in mind that the timescale over which the investigation works were undertaken may not allow the establishment of equilibrium groundwater levels. Particularly relevant in this context is that groundwater levels are susceptible to seasonal and other variations and may be higher during wetter periods than those encountered during this commission.

Where the report refers to the potential presence of invasive weeds such as Japanese Knotweed, or the presence of asbestos containing materials, it should be noted that the observations are for information only and should be verified by a suitably qualified expert.

This report assumes that ground levels will not change significantly from those existing at present and that houses will be of two-three storey construction. If this is not to be the case, then some modification to this report may be required.

ALM cannot be responsible for the consequences of changing practices, revisions to waste management legislation etc. that may affect the viability of proposed Remediation options.

ALM reserves the right to amend their conclusions and recommendations in the light of further information that may become available.

PRELIMINARY GEOENVIRONMENTAL APPRAISAL

of land at

CARR BANK LODGE, RAMSBOTTOM

1 INTRODUCTION

1.1 The Commission and Brief

1.1.1 ALM Consult Ltd (ALM), were commissioned by Graham Schofield Associates to carry out a preliminary geoenvironmental appraisal ('Phase 1' Desk Study) of land located at Carr Bank Lodge, Ramsbottom Lane, Ramsbottom.

1.1.2 The agreed scope of works includes:

- A site walkover and inspection;
- An assessment of the site's land use history;
- Determination of the site's environmental setting;
- A preliminary assessment of anticipated ground conditions and development of a conceptual site model outlining potential contamination sources, relevant environmental receptors and likely pollution pathways.
- A preliminary assessment of potential engineering issues associated with redevelopment for the proposed residential end-use;
- Provision of recommendations for any appropriate 'Phase 2' intrusive site investigation works.

1.1.3 ALM have received the following drawings relating to the study site:

- *SSHARC Ltd Drawing No.03B: 'Proposed Site Plan'*, dated 3rd October 2018 (hereby referred to as the 'Proposed Site Plan');
- *SSHARC Ltd Drawing No.09A: 'Proposed Section Window Jamb Detail'*, dated 3rd March 2019 (hereby referred to as the 'Proposed Section Detail').

1.1.4 It is understood that the site is under consideration for residential development of 1No. dwelling with a private garden, as shown on the 'Proposed Site Plan' drawing.

1.1.5 The 'Proposed Section Detail' indicates the dwelling will be of 2-storey construction. The 1st floor is to be benched into existing ground levels in the north of the site, with localised cut and fill works required to achieve the proposed finished 1st floor level.

1.1.6 A reduction in ground levels of up to 3m will be required to achieve proposed finished ground floor levels, and proposed levels for the courtyard.

1.2 Report Format and Limitations

1.2.1 Standard definitions, procedures and guidance are contained within Appendix A, which includes generic information on assessment of the site's environmental setting.

1.2.2 This investigation comprised an inspection of historical and geological maps obtained from the British Geological Society (BGS) and Landmark Information Group (which includes information provided by the Environment Agency, Coal Authority and local authority).

1.2.3 General notes and limitations relevant to all ALM Investigations are described in the Foreword and should be read in conjunction with this report. The text of the report draws specific attention to any modification to these procedures and to any other special techniques employed.

- 1.2.4 The primary aims of this of investigation were to identify salient geoenvironmental issues affecting the site to support a Planning Application for residential re-development, and to assist the design and costing of foundations any other abnormal development costs.

2 SITE DESCRIPTION

2.1 General

- 2.1.1 The site location is shown on Drawing No. 30359/1 presented in Appendix B to this report. Site details are summarised in the Table 1 below.

Table 1 - General Site Details

Detail	Remarks
Location	The site is accessed from Ramsbottom Lane, Ramsbottom, approximately 100m from Ramsbottom town centre.
OSGR	379090E, 417050N
Approximate Area	0.1 hectare (Total)

2.2 Site Features

- 2.2.1 Existing salient features at the time of the site walkover are presented on Drawing No. 30359/2 in Appendix B.
- 2.2.2 A series of photographs taken during the site inspection and walkover survey are presented in Appendix C, the locations/orientations of which are illustrated on Drawing No.30359/2 in Appendix B.
- 2.2.3 The site exists as a roughly square parcel of land, located to the rear of an existing dwelling (Carr Bank Lodge). Ground levels vary substantially across the site area, with the midpoint of the north boundary being the highest point. Levels drop off steeply down to a sandstone block wall in the west, which forms the boundary with an informal access road (see Plate 1 in Appendix C). Ground levels also drop off moderately down to a retaining wall in the east, which forms the site boundary with Ramsbottom Lane (Plate 2). The top of the retaining wall is approximately 2.2m higher than the adjacent road level. A retaining wall forms the south boundary, with ground levels at the adjacent Carr Bank Lodge being approximately 2m lower (Plate 3).
- 2.2.4 The north boundary is mostly formed by a concrete post and wooden panel fence, with a residential property occupying adjacent land (Plate 4).
- 2.2.5 A number of mature and semi-mature deciduous trees are present in the central part of the site (see Plate 5), with a number of semi-mature self-seeded trees present on the eastern slope (Plate 6). A disused timber telephone wire pole is present in the centre of the site (Plate 5).
- 2.2.6 Significant leaf litter is present across the site surface, overlying a layer of humus soil. Brambles and nettles are present across much of the site, and occasional tree stumps were observed.

2.3 Surrounding Landuse

- 2.3.1 Beyond Ramsbottom Lane (major roadway) to the east is mostly residential with occasional industrial premises. Further east, the River Irwell is approximately 280m from the site.
- 2.3.2 The area to the north and northwest is predominantly residential, with some commercial premises situated along Ramsbottom Lane. This includes a fuel station approximately 300m north of the site. There are 2No. large former mill ponds located approximately 170m west and 320m northwest of the site.
- 2.3.3 Carr Bank Lodge is present immediately to the south of the site. Ramsbottom town centre is located beyond that, comprising mainly commercial properties.

3 SITE HISTORY

- 3.1.1 In order to investigate the development history and previous land uses at the site and surrounding land, site centred extracts from Ordnance Survey (OS) plans dating back to 1850 were examined.
- 3.1.2 Table 2 below provides a summary of the salient points relating to the history of the site with respect to the proposed end use.

Table 2 - Site History

Date(s)	Site	Surrounding Land
1850 - 1938	The site is part of a larger parcel of woodland from 1850.	North: A narrow ribbon of woodland stretches north for approximately 200m. Terraced housing is present along Ramsbottom Lane. Ramsbottom Cotton Mill is present approximately 180m to the northeast with an on-site reservoir, and another associated reservoir further north (ca.200m from site). A series of railway sidings are situated approximately 250m northeast. A drill hall is present at the south end of the Ramsbottom Cotton Mill by 1910. By 1930 a refuse destructor is present 200m northeast of the site. East: The area within 100m east of the site is predominantly residential. Between 1929-1938, residential properties along Ramsbottom Lane immediately to the east, are no longer shown. Carr Spring Works and Garden Cotton Mill are situated between 170m and 200m east, with railway tracks beyond the mill. A series of cotton mills are located beyond the tracks. By 1929, Garden Cotton Mill is shown as an engineering works. South: 'Market Place' is situated within 50m southwest of the site, indicating the area is a commercial centre. The area within 250m appears to be a mix of residential and commercial dwellings. A number of cotton mills and an iron foundry are located further south, between 250m and 500m from the site. West: A bowling green is within 20m west of the site with the surrounding area part of the commercial centre. Carr Mill is approximately 150m from the site, with an associated Mill pond around 170m distance. Spring Wood Woolen Mill is further east (approx. 270m), with a large mill pond approx. 320m distance.
1938 - Present	By 1963, the site is no longer within a parcel of woodland. A north site border has been established, following construction of a residential dwelling to the north.	North: By 1938, Ramsbottom Cotton Mill is disused but the on-site reservoir is still shown. By 1978, the mill is demolished and a series of industrial works units are shown. The on-site reservoir appears to have been infilled. East: By 1963, a 'shelter' (likely to be an air raid shelter) is shown within 30m of the site. An area of infill is shown immediately east of the shelter. By 1978, a number of railway line branches have gone, indicating a downturn in industrial output from mills in the area. South: Little change in nearby land use. West: By 1938, Carr Mill is shown as disused and is shown as a 'works' by 1963. By 1973, a church is shown on the site. An allotment gardens is present ca.60m from the site by 1963. By 1999, the area to the west and northwest is mostly residential, including the former allotment gardens. Former mill ponds are still present in 2023.

- 3.1.3 In summary, the site appears to have remained undeveloped, with no historical industrial activity appearing to have occurred within 140m of the site. Notable changes within this area include removal of dwellings and a small area of infill 30m east of the site, and development of a residential dwelling to the north of the site in the 1960's, with local felling of woodland. A lodge immediately south of the site appears to have been present since at least 1850.
- 3.1.4 A significant number of industrial facilities have historically operated in the wider area through the 19th century and the first half of the 20th century, mostly comprising cotton and paper mills. From the late 1930's, a number of mills began to close, and some reservoirs to the east appear to have been infilled. Between the 1970's and present day, gradual residential development of former industrial sites has occurred, with a number of mills still present beyond 250m south of the site.

4 ENVIRONMENTAL SETTING

4.1 General

- 4.1.1 Notes describing how the site's environmental setting has been assessed are included in Appendix A to this report.
- 4.1.2 Information obtained from the British Geological Survey and Landmark Information Group in the form of an 'Envirocheck Report' (including information from the Environment Agency and others) are presented in Appendix F. A Coal Authority Coal Mining Report is provided in Appendix G. Salient information is summarised below.

4.2 Geology

- 4.2.1 The British Geological Survey (BGS) 1:50,000 Sheet 76 (Rochdale) indicates that the site is underlain by glacial deposits of Till, which are likely to comprise cohesive soils with variable silt, sand, gravel, cobble and boulder content.
- 4.2.2 Bedrock beneath the site is indicated to comprise sandstone of the Brooksbottoms Grit geological unit.
- 4.2.3 A non-confidential BGS borehole (Ref:SD71NE124) is located approximately 60m northeast of the site. This borehole records a layer of made ground overlying natural glacial deposits comprising soft silty slightly sandy gravelly clay to 2.7m. Between 2.7m and 4m, the strata became firm to stiff and included sand lenses. A scan of the BGS borehole log is provided in Appendix E.
- 4.2.4 Data provided by the BGS and National Geoscience Information Service assigns a qualitative hazard potential rating for a range of ground stability categories at the site. These are summarised in Table 3 below.

Table 3 – Indicative Hazard Potential for Ground Stability Categories

Ground Stability Category	Inferred Hazard Potential
Potential for Collapsible Ground Stability Hazard	Very Low
Potential for Compressible Ground Stability Hazard	No Hazard
Potential for Ground Dissolution Stability Hazard	No Hazard
Potential for Landslide Ground Stability Hazard	Moderate
Potential for Running Sand Ground Stability Hazard	No Hazard
Potential for Shrinking or Swelling Clay Ground Stability Hazard	Very Low

4.3 Hydrogeology

- 4.3.1 Superficial deposits below the site are designated as 'Secondary Undifferentiated Aquifer'. This designation indicates that superficial deposits have limited potential value for water supply or river baseflow.
- 4.3.2 Solid strata beneath the site are designated as 'Secondary A' Aquifer. This designation indicates the aquifer can support water supply at a local scale and may provide an important source of baseflow to rivers and local ecosystems.

- 4.3.3 The Environment Agency Groundwater Vulnerability Map (MAGIC Maps, 2024) indicates that groundwater below the site is classified as 'Medium to Low' vulnerability. This indicates that the potential risk to any strategic groundwater supplies is low, but there is a potential for contamination sources to impact on any private water supplies or groundwater fed rivers and ecosystems.
- 4.3.4 The site is not located within, or near to a groundwater Source Protection Zone (SPZ). There are 6No. recorded groundwater abstractions located within 1km of the site, all of which are for industrial purposes at nearby mills (non-potable use).
- 4.3.5 Site sensitivity maps indicate that the potential for groundwater flooding to occur at the site is limited.

4.4 Hydrology

- 4.4.1 The nearest water course to the site is an unnamed 'inland river' positioned 99m to the south. The watercourse appears to flow below the surface of the surrounding suburban area. The OS Water Network Map (provided in Appendix F) indicates it is an outflow from former mill ponds located between 150m and 320 west of the site, and flows to the River Irwell in the east, via a former paper mill site.
- 4.4.2 The nearest named surface water feature is the River Irwell, which flows roughly north to south within 262m east of the site. The River Irwell is shown as a statutory main river on the Environment Agency [Statutory Main River Map](#).
- 4.4.3 Environment Agency mapping shows that the site is at very low risk of flooding from surface waters.
- 4.4.4 There are no pollution incidents to controlled waters associated with the study site.
- 4.4.5 There are 5No. pollution incidents to controlled waters within 500m of the study site. The closest is a 'Category 3 – Minor Incident' positioned 108m to the northeast, relating to crude sewage entering an unnamed watercourse during a flood event in 1999. The other incidents are positioned between 306m and 476m east/southeast, and relate to entry of sewage/oils/miscellaneous contaminants into the River Irwell during the 1990's.
- 4.4.6 There are 4No. discharge consents within 500m of the site, none of which are related to the study site. The closest is positioned 221m west of the site, and relates to a storm sewage overflow outfall at a tributary of the River Irwell. The other potentially 'active' discharge consents are positioned 322m southeast (water company – storm sewage overflow) and 436m northwest (domestic property – treated sewage effluent).
- 4.4.7 There are 11No. licensed surface water abstractions recorded within 1km of the site. The vast majority are for industrial purposes (process water, car washing, general cooling).

4.5 Mining and Quarrying

Coal Mining

- 4.5.1 The study site is located in a coal mining reporting area.
- 4.5.2 There are no recorded mine entries within 20m of the site boundary, and the Coal Authority indicates the property is not within a surface area that could be affected by any historical recorded underground coal mining. Published geology indicates that there are no known major coal seams located beneath the site.
- 4.5.3 No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence. The [Coal Authority Interactive Viewer](#) does not show any such notices in the vicinity of the site.

- 4.5.4 There are no current license requests to remove coal by opencast methods within 800m of the site boundary.
- 4.5.5 The Coal Authority has no record of mine gas emissions requiring action at the site.

Non-Coal Related Mining

- 4.5.6 There are no BGS recorded mineral sites within 500m of the study site. The closest mineral extraction site is positioned 545m west, where sandstone was removed via opencast methods.

4.6 Radon

- 4.6.1 BGS radon maps (2022) indicate that the site is in the lowest band for radon potential, with less than 1% of homes at or above the Action Level. Basic radon protective measures are **not** required for new buildings.

4.7 Designated Sites

- 4.7.1 There are 2No. Sites of Special Scientific Interest (SSSI) within 1km of the study site. The closest is Lower Red Lees Pasture, 819m to the north. The next nearest is West Pennine Moors SSSI, 903m to the west.
- 4.7.2 The study site is not within, or near to a Drinking Water Protected Area and there are no nearby Drinking Water Safeguard Zones for surface waters or groundwater.
- 4.7.3 The site is not located within a nitrate vulnerable zone.

4.8 Landfill and Waste Sites

- 4.8.1 There is 1No. historical landfill site located within 500m, positioned 418m southeast of the site. The landfill operated between 1977 and 1979 and is recorded to have accepted 'Inert and Industrial Waste'.
- 4.8.2 There are 4No. licensed waste management facilities within 500m of the site. The nearest is 301m to the east, and is an 'End of Life Vehicles' site. The other facilities relate to the same site, positioned 365m to the east. The most recent designation of the site is as a 'Household, Commercial and Industrial Waste Transfer Station with Waste Treatment'. It was previously categorised as a 'Special Waste Transfer Station'.

4.9 Potentially Infilled Ground

- 4.9.1 There are 3No. areas of potentially infilled land (all former water features) within 250m of the site. The closest is 142m northeast, and appears to relate to a small stream potentially infilled prior to 1955. The other 2No. relate to partial infilling of a former mill pond 206m and 237m to the west of the site prior to 1955. There are no obvious changes to the shape or size of the pond on historical maps, indicating the scale of potential infill was minor.
- 4.9.2 In addition, an area of potential infill is shown on historical plans dating from 1938, and more clearly on plans dated 1963, approximately 30m east of the site, which possibly relates to the demolition of former dwellings on Ramsbottom Lane.

4.10 Other Issues

- 4.10.1 There are 2No. fuel station entries within 500m of the site, positioned 256m northeast and 268m southeast. The station to the southeast is listed as closed.
- 4.10.2 There are no recorded sites associated with hazardous substances within 1km of the site (e.g. COMAH, NIHHS, Explosive Sites).
- 4.10.3 A review of contemporary trade directories has not identified any directories near to the site which are considered relevant to the preliminary risk assessment.

5 PRELIMINARY RISK ASSESSMENT

5.1 Introduction and Legislative Background

- 5.1.1 The principal legal framework for dealing with contaminated land in England is set out in Part 2A of the Environmental Protection Act 1990, as amended ('Part 2A'). Part 2A provides a means of dealing with unacceptable risks posed by land contamination to human health and the environment. Under Part 2A the starting point should be that land is not contaminated land unless there is reason to consider otherwise. Only land where unacceptable risks are clearly identified, after a risk assessment has been undertaken in accordance with Statutory Guidance, should be considered as meeting the Part 2A definition of contaminated land.
- 5.1.2 The over-arching objectives of the Government's policy on contaminated land and the Part 2A regime are:
- To identify and remove unacceptable risks to human health and the environment;
 - To seek to ensure that contaminated land is made suitable for use; and
 - To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.
- 5.1.3 [Land Contamination Risk Management guidelines](#) outline a structured process for managing potential land contamination, including its identification, assessment of potential risk to relevant receptors, and remediation of contamination where appropriate. The process must always start with a preliminary risk assessment, which includes development of a conceptual site model (CSM). This outlines potential contaminant linkages which comprise:
- 'Contaminant' - A substance which is in, on or under the land and which has the potential to cause significant harm to a relevant receptor, or to cause significant pollution of controlled waters;
 - 'Receptor' - Something that could be adversely affected by a contaminant, for example a person, an organism, an ecosystem, property, or controlled waters; and
 - 'Pathway' - A route by which a receptor is or might be affected by a contaminant.
- 5.1.4 For a risk to exist there must be contaminants present in, on, or under the land in a form and quantity that poses a hazard, and one or more pathways by which they might significantly harm people, the environment, or property; or significantly pollute controlled waters.
- 5.1.5 All three elements of a contaminant linkage must exist for a significant risk to be present, and before land can be considered as potentially contaminated land under Part 2A, including evidence of the actual presence of contaminants. The term 'significant contaminant linkage' means a contaminant linkage which gives rise to a level of risk sufficient to justify a piece of land being determined as contaminated land. The term 'significant contaminant' means the contaminant which forms part of a significant contaminant linkage.
- 5.1.6 The aim of the conceptual model is to provide a preliminary assessment of the likelihood of a '*contaminant linkage*' for each potential combination of contaminant source, pathway and receptor.

5.2 Anticipated Ground Conditions & Potential Issues

5.2.1 Based on the data reviewed in Section 3 (Site History) and Section 4 (Environmental Setting), Table 4 summarises the anticipated ground conditions.

Table 4 - Anticipated Ground Conditions

Anticipated Condition	Remarks
Made Ground	There has been no visual or olfactory evidence of the following: - Storage tanks - Raw material or chemical use - Solid, hazardous or industrial wastes - Spills or releases In consideration of the land use history, and observations made during the site walkover, the presence of made ground soils is considered unlikely.
Natural Soils	A shallow layer of naturally occurring topsoil (<0.5m) is likely to be present across the site. The upper boundary of the topsoil is likely to comprise mainly leaf humus. BGS mapping indicates that topsoil is likely to be underlain by Glacial Till deposits. A nearby BGS borehole indicates the Glacial Till is likely to comprise silty slightly sandy gravelly clay, potentially with sand lenses. Shallow natural soils may have soft shear strengths, becoming firm to stiff with depth.
Bedrock	Bedrock beneath the site is indicated to comprise sandstone of the Brooksbottoms Grit geological unit.
Mine workings	Coal workings are not anticipated to underlie the site, and there is a low potential for the site to be affected by nearby recorded underground coal workings. There are no recorded non-coal mining areas within 50m of the site boundary and there are no recorded brine affected areas within 75m of the site.
Groundwater	In consideration of the site topography and local hydrogeological setting, the presence of a shallow groundwater table beneath the site is considered unlikely. Groundwater may be present as non-continuous perched pockets.
Vegetation	A number of mature and semi-mature deciduous trees are present on the site. It is understood that the proposed development will comprise removal of existing trees, with new planting proposed along the east boundary with Ramsbottom Lane.

5.2.2 Based on the data above and that in Section 2 (Site Features) and Section 3 (Site History), Table 5 summarises potential ground-related issues associated with this site.

Table 5 - Anticipated Ground-Related Issues

Type of Issue	Specific Issue to be Assessed	Remarks
Potential on-site contamination sources	1. No potential issues identified	1. Previous land use of the site and immediate surrounding area does not indicate any likely sources of contamination.
Potential off-site contamination sources	1. Infilled ponds and ground in the local area. 2. Historical Landfills.	1. Gas generating potential of potentially infilled land should be considered. 2. Gas generating potential of nearby historical landfill should be considered.
Potential Geotechnical Hazards	1. Aggressive ground (Sulphates) 2. Slope Stability 3. Volume change potential of natural soils	1. Natural strata may comprise elevated levels of soluble sulphates which can influence foundation design. 2. Potential impact of development on the stability of east and west facing slopes should be assessed. 3. Removal of trees has the potential to result in volume change of underlying cohesive strata. Mostly mitigated by proposed reduction in ground levels in central and southern portion of the site.

5.3 Conceptual Site Model

- 5.3.1 Based on the collated desk study information, this section identifies potential contamination sources, environmental pathways and potential environmental receptors.

5.4 Potential On-site Sources

- 5.4.1 No credible on-site sources of contamination have been identified on the site. Made ground soils are unlikely to be present.

5.5 Potential Off-site Sources

Potentially Infilled Land

- 5.5.1 There are 4No. areas of potentially infilled land within 250m of the site, at distances ranging between 30m and 237m. All of the features are small scale and appear infilled prior to 1955. Current guidance¹ suggests that small features infilled a long time ago are unlikely to be significant sources of ground gas due to the limited volume and age of infill. In consideration of the age and scale of the identified features, they are not considered as credible sources of ground gas.

Potential Off-site Source – Landfill

- 5.5.2 There is a historical landfill site positioned 418m southeast of the site, which operated between 1977 and 1979. Accepted waste types included inert and industrial waste, indicating a low to moderate potential for gas generation. The age of the landfill indicates that the waste mass will have reached the maturation phase, with very low levels of residual gas generation².

5.6 Potential Receptors

Human Health

- 5.6.1 The proposed end-use of the site is 'residential'. The site is not located near agricultural land or land grazed by livestock. There are no nearby potable water abstractions.
- 5.6.2 The primary human health receptors are:
- Residential end-users of the proposed development;
 - Construction works personnel.

Controlled Waters

- 5.6.3 The following controlled waters receptors have been identified:
- Superficial Aquifer – Low sensitivity receptor.
 - Bedrock Aquifer – Moderate sensitivity receptor. Potential important source of baseflow to River Irwell and a potentially important future resource of drinking water. No existing licensed potable water abstractions within 1km of the site;
 - River Irwell – Moderate to high sensitivity receptor. Statutory Main River.

¹NHBC NF94 'Hazardous Ground Gas – An Essential Guide For Housebuilders', 2024.

² Wilson S (2018). Screening approach for landfill gas migration around landfill sites. Ground Gas Information Sheet No 3. Presented at the Scottish Contaminated Land Forum Conference 2018, 5 September 2018, Glasgow, Scotland. EPG Limited.

5.7 Potential Pathways

- 5.7.1 A historical landfill located 418m southeast of the site has been identified as a potential low level gas source. The most likely driver for off-site migration is diffusion, which typically only occurs over small distances². The potential for lateral migration is further limited by the presence of fine grained superficial deposits, resulting in high rates of head loss¹. Subsequently, lateral migration to the study site is very unlikely.
- 5.7.2 Ground levels across the local area indicate that groundwater flow beneath the study site is likely to be eastwards towards the River Irwell Valley. In consideration of the topographical gradient, groundwater transport of mobile contaminants to aquifers beneath the study site is very unlikely.

5.8 Risk Classification

- 5.8.1 A risk matrix (Table 6) has been used to qualitatively classify risk, by assessing the probability of occurrence against the severity of impacts.

Table 6 - Categorization of Risk (Based on Table 1.8 of R&D66)

Probability (Likelihood)		Consequence			
		Severe	Moderate	Mild	Minor
	High Likelihood	Very High Risk	High Risk	Moderate Risk	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
	Very Unlikely	Low/ Very Low Risk	Very Low/Negligible Risk	Negligible Risk	Negligible Risk

- 5.8.2 The criteria used to determine the probability of occurrence and the severity of impacts are presented in Tables 7 and 8 below.

Table 7 – Assessment criteria for severity of impacts

Term	Description
Severe	There is an acute risk to human health and/or potential for significant pollution of controlled waters, and/or a potential for significant damage to buildings or property.
Moderate	There is a long-term risk to human health and/or the potential for pollution of sensitive controlled waters receptors, with significant adverse impacts on sensitive ecosystems and fauna.
Mild	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst if any harm was realised any effects would be mild.
Minor	A hazard may exist but does not give rise to the potential to cause harm to a designated receptor.

¹NHBC NF94 'Hazardous Ground Gas – An Essential Guide For Housebuilders', 2024.

² Wilson S (2018). Screening approach for landfill gas migration around landfill sites. Ground Gas Information Sheet No 3. Presented at the Scottish Contaminated Land Forum Conference 2018, 5 September 2018, Glasgow, Scotland. EPG Limited.

Table 8 – Assessment criteria for probability of impact occurrence

Term	Description
High Likelihood	All aspects of the pollutant linkage may be present and there is existing evidence of impacts to a receptor, or near certainty of impacts to occur in the long-term.
Likely	All aspects of the pollutant linkage may be present, and it is probable impacts to a receptor will occur in the long-term.
Low Likelihood	The sources, pathways and receptors may be present, but there are limitations on a pollutant linkage being present.
Unlikely	The sources, pathways and receptors may be present, but it is unlikely a pollutant linkage will be present.
Very Unlikely	It is very unlikely that all three elements of a contaminant linkage will be present

- 5.8.3 The risk classifications for each identified contaminant linkage are summarised in Table 9. Contaminant linkages are also illustrated on a Conceptual Site Model, presented as Drawing No.30359/3 in Appendix B to this report.
- 5.8.4 The conceptual site model should be subject to modification and refinement in light of data arising from any intrusive ground investigation undertaken at the study site.

Table 9 – Potential Source-Pathway-Receptors derived from desk study information

Potential Source	Potential Pathways	Likely Receptors	Severity of Impact	Probability of Occurrence	Risk Classification	Remarks
Off-site Landfill	Lateral/vertical migration and Ingress/accumulation of ground gas into buildings	Human Health – residential end-users	Severe	Very Unlikely	Very Low	Considered very low risk due to the improbability of pathway, which is limited by the following factors:- - Significant distance between source and receptor. Lateral migration over large distances typically only occurs from active gas sources, and through low head-loss preferential pathways. Age of landfill indicates declining rate of gas generation, and fine grained superficial deposits will result in high head loss. - Typically low permeability of cohesive glacial deposits acts as a barrier to lateral and vertical migration.
		Human Health – construction personnel	Severe	Very Unlikely	Very Low	As above. Probability further limited by low residence time of receptor in site dwellings.
	Leaching of dissolved phase contaminants and vertical migration to groundwater beneath the site	Bedrock Aquifer – Secondary A	Moderate	Very Unlikely	Negligible	Elevation of site compared to surrounding area indicates that groundwater flow will be to east/southeast. Westwards migration from source to beneath the site is very unlikely.
		Superficial Aquifer – Secondary Undifferentiated	Mild	Very Unlikely	Negligible	As above.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 General

- 6.1.1 It is understood that consideration is being given for development of the site for residential use.
- 6.1.2 *SSHARC Ltd Drawing No.03B* indicates that the development will comprise 1No. residential dwelling of 2-storey construction, with an associate private garden. Preparatory ground works will include cut and fill to achieve proposed finished floor and ground levels, and the removal of existing site trees.
- 6.1.3 This report presents a review of historical data and environmental search information, to provide an initial assessment of likely ground conditions and soil/groundwater contamination to establish a conceptual site model, which will form the basis of any future ground investigation at the site.

6.2 Historical Development

- 6.2.1 The study site has remained undeveloped since at least the mid 19th century. The site was originally within a parcel of woodland, bordered to the south by Carr Bank Lodge. By 1963, a residential property bordered the site to the north.
- 6.2.2 The immediate surrounding area to the south has been a commercial town centre since at least the 19th century. The area within 100m north and east has remained as primarily residential, whilst a bowling green has been present within 20m of the site to the west since the 19th century.
- 6.2.3 A number of cotton mills have operated in the wider area throughout the 19th and 20th century, with some mill buildings located further south still present. The nearest mills to the site were Carr Mill (approx. 150m west) and Ramsbottom Cotton Mill (approx. 180m northeast). Both mills became disused by 1938 and were demolished prior to 1973.

6.3 Ground and Groundwater Conditions

- 6.3.1 The presence of made ground soils below the study site is considered unlikely.
- 6.3.2 Naturally occurring topsoil is anticipated to be present across the surface of the site. It is likely that the upper boundary of the topsoil will comprise mostly leaf humus.
- 6.3.3 Glacial Till deposits are indicated to underlie the site. A nearby non-confidential BGS borehole indicates the deposits are likely to comprise soft silty slightly sandy gravelly clay, that becomes firm to stiff with depth. The Glacial Till is designated as a Secondary Undifferentiated Aquifer, indicating a limited potential for groundwater storage or supply. It is not anticipated that a shallow water table (<3m) will be present within the deposits, though non-continuous perched groundwater pockets may be present.
- 6.3.4 Superficial deposits are indicated to be underlain by sandstone of the Brooksbottoms Grit geological unit. The bedrock is designated as a Secondary A Aquifer, indicating it is a potentially important local source of water supply and baseflow to rivers.
- 6.3.5 The site is not located in a groundwater Source Protection Zone, and there no recorded potable groundwater abstractions within 1km of the site. There are 6No. licensed groundwater abstractions within 1km, all of which are for industrial processing operations.

6.4 Mining and Quarrying

- 6.4.1 The site is located within a coal mining area. There are no recorded mine entries within 20m of the site boundary. The Coal Authority does not consider the site to be in a surface area that could be affected by historical recorded underground coal mining.
- 6.4.2 There are no BGS recorded mineral sites within 500m of the study site. There are no brine affected areas within 75m of the study site.

6.5 Hazardous Gas

- 6.5.1 A historical landfill 418m southeast of the site has been identified as a potential source of ground gas. An assessment of the landfill characteristics and local environmental setting indicates that migration of ground gas to the study site is very unlikely. In the absence of a credible contaminant linkage, the potential risk to relevant receptors from ground gas is considered very low.
- 6.5.2 BGS radon maps (2022) indicate that the site is in the lowest band for radon potential, with less than 1% of homes at or above the Action Level. Basic radon protective measures are **not** required for new buildings.

6.6 Preliminary Contamination Risk Assessment

- 6.6.1 A preliminary risk assessment has been undertaken utilising the available sources of information in line with prevailing guidance.
- 6.6.2 No potential sources of on-site contamination have been identified. A historical landfill located 418m to the southeast was identified as a credible source of ground gas and mobile contaminants. No credible pathways have been identified through which ground gas or mobile contaminants are likely to migrate to the study site. Subsequently, with respect to the proposed development, the overall risk to human health receptors is considered very low, and the risk to controlled waters receptors is considered negligible.

6.7 Flooding

- 6.7.1 The site is located in a Flood Zone 1, indicating that there is a low risk of flooding.

6.8 Recommendations

- 6.8.1 It is anticipated that a surplus of soil arisings will be generated by cut and fill works, that may require off-site disposal. Chemical characterisation will be required to confirm the waste classification of any excess arisings.
- 6.8.2 A nearby BGS borehole indicates that shallow superficial deposits may possess soft shear strengths. It is recommended that works are undertaken prior to the construction phase, to identify the depth of suitable bearing strata. The design of any ground investigation must consider the restricted site access, steep topography, and limited working space.
- 6.8.3 The design of the proposed dwelling must consider the potential implications for slope stability, including the potential increase in stress placed on existing retaining walls.
- 6.8.4 Proposed works include the removal of established mature trees on the site. It is recommended that the volume change potential of superficial deposits is assessed, to determine the potential for shrinkage/swelling of soils below the proposed dwelling, and potential implications for foundation design.

APPENDIX A

General Notes

Generic Notes – ALM Geoenvironmental Investigations

01 - Environmental Setting

General

Third party information obtained from the British Geological Survey (BGS), the Coal Authority, the Local Authority etc is presented in the Correspondence Appendix of this Geoenvironmental Report.

Geology, Mining & Quarrying

In order to establish the geological setting of a site, ALM refer to BGS maps for the area, and the relevant geological memoir.

Borehole records held within the BGS archive are additionally obtained where such records are available or are considered relevant to the study site. It should be noted that the exact locations of boreholes held within the BGS archive are not always known and the quality of information presented within the borehole records may vary, depending on the age and nature of the borehole record and the reason for why the borehole was drilled.

A coal mining report is obtained from the Coal Authority where the study site is located within a Coal Authority Search Area. Further information is sourced from the Local Authority and by reference to current and historical OS plans.

Landfills

ALM obtain data from the Landmark Information Group/Emapsite, the Environment Agency and the Local Authority with respect to known areas of landfilling within 250-1000m of the proposed development site. Reference is also made to historical OS plans, which are inspected for evidence of backfilled quarries, railway cuttings, colliery spoil tips etc.

Radon

Radon is a colourless, odourless gas, which is radioactive. It is formed in strata that contain uranium and radium (most notably granite), and can move through fissures eventually discharging to atmosphere, or the spaces under and within buildings. Where radon occurs in high concentrations, it can pose a risk to health.

In order to assess potential risks associated with radon gas, ALM refer to BRE Report BR211, 2015: *“Radon: guidance on protective measures for new buildings”*.

The level of protection needed is site-specific and is determined by reference to the maps contained in Annex A of BR211. These maps are derived from the Radon Atlas of England and Wales and indicate the highest radon potential within each 1km grid square.

If the site falls within a light grey square on the relevant map in Annex A then basic radon protection should be installed in new buildings; if the site falls within a dark grey square then full radon protection should be installed. **If the site is in an un-shaded square then no radon protection is needed.**

BR211 provides a preliminary indication of the measures required for a particular site, but it is also often beneficial to request a BR211 Radon Report from the BGS. The Annex A maps indicate the highest geological radon potential within each 1km grid square, but in many cases the radon potential varies considerably within the grid square. The BR211 Radon Report gives definitive guidance on the requirement for radon protective measures, and therefore may allow the adoption of a lower level of protection than that indicated in the Annex A maps.

ALM typically obtains a BR211 Radon Report for all sites that fall within a shaded square on the relevant Annex A map.

When requesting a BR211 Radon Report from the BGS ALM selects the search radius carefully, since too large a search radius may result in the inclusion of areas of higher geological radon potential, and therefore in the recommendation of too high a level of protection.

Further details of the protective measures required, if appropriate, are provided in the Hazardous Gas section of this Geoenvironmental Report.

Hydrogeology

ALM obtain information from the Environment Agency (EA) and the Landmark Information Group/Emapsite with respect to:

- groundwater quality
- recorded pollution incidents
- licensed groundwater abstractions

Reference is also made to the EA document “*Policy and Practice for the Protection of Groundwater*” (V1.1 August 2013) and the relevant Groundwater Vulnerability Map.

Since 1st April 2010 the Environment Agency's *Groundwater Protection Policy* uses aquifer designations that are consistent with the Water Framework Directive and represent a slight modification to those aquifer designations which have been used in the past. These new designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.

The aquifer designation data is based on geological mapping provided by the British Geological Survey and will be updated from time to time based on the ongoing programme of improvements to these maps.

The Solid and any overlying Drift deposits are classified and defined by the Environment Agency as follows:

‘Principal Aquifers’ (formerly known as Major Aquifers):

“Layers of rock or drift deposits that have high intergranular and/or fracture permeability which can usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as a major aquifer”

'Secondary Aquifers' (generally formerly known as Minor Aquifers):

These include wide range of rock layers or drift deposits with an equally wide range of water permeability and storage. Secondary Aquifers are sub-divided into two types:

- **Secondary A:** *"Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers".*
- **Secondary B:** *"Predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of layers formally classifies as non-aquifers"*
- **Secondary Undifferentiated:** *"Layers of rock or drift where it has not been possible to attribute either Secondary A and Secondary B classification. This means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to variable characteristics of the rock or drift type"*

'Unproductive Strata' (formerly known as Non-aquifers):

"These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow". NB: Groundwater flow through Unproductive Strata although imperceptible, does take place and needs to be considered in assessing the risk associated with persistent pollutants. Some non-aquifers can yield water in sufficient quantities for domestic use.

Groundwater vulnerability is determined by 4 variables:

1. The presence and nature of overlying soil (the weathered zone affected by living organisms; soil in the UK can extend up to 2m in depth). Physical properties of the soil affect the downward passage of water and it's ability to attenuate pollutants. The EA make reference to a three-fold classification of soil types:-
 - Soils of **low** leaching potential are defined as *"soils in which the pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants".*
 - Soils of **intermediate** leaching potential are defined as *"soils which have a moderate ability to attenuate diffuse source pollutants or in which it is possible that some nonadsorbed diffuse source pollutants and liquid discharges could penetrate the soil layer".*
 - Soils of **high** leaching potential are defined as *"soils with little ability to attenuate diffuse source pollutants and in which non-adsorbed diffuse source pollutants and liquid discharges have the potential to move rapidly to underlying strata or to shallow groundwater".*

In urban areas and restored mineral workings the soil information is based on fewer observations than elsewhere. A worst-case vulnerability (H) is therefore assumed for these areas and for current mineral workings by the EA. All are given a designation of **HU** unless proved otherwise.

2. The presence and nature of Drift, which often overlies bedrock. Where Drift is of substantial thickness and low permeability, it can provide an effective barrier to surface pollutant migration. Permeable Drift is classified as a Minor Aquifer except where it is in probable hydraulic continuity with a Major Aquifer, where it is regarded as part of the Major Aquifer unless proven otherwise by site investigation.
3. The nature of the geological strata (bedrock). Rocks that contain groundwater in exploitable quantities are called aquifers.
4. The depth of the unsaturated zone; i.e. that part of the aquifer which lies above the water Table. The EA have also designated Source Protection Zones, which are based on proximity to a groundwater source (springs, wells and abstraction boreholes). The size of a Source Protection Zone is a function of the aquifer, volume of groundwater abstracted, groundwater flow travel times and the effective rainfall, and may vary from tens to several thousand hectares.

Hydrology

ALM obtains information from the Environment Agency and the Landmark Information Group/Emapsite with respect to:

- surface water quality
- recorded pollution incidents
- licensed abstractions (groundwater & surface waters)
- licensed discharge consents
- site susceptibility to flooding

The EA have set **water quality** targets for all rivers. These targets are known as River Quality Objectives (RQOs). The water quality classification scheme used to set RQO planning targets is known as the River Ecosystem scheme. The scheme comprises five classes (RE1 to RE5) which reflect the chemical quality requirements of communities of plants and animals occurring in our rivers.

General Quality Assessment (GQA) grades reflect actual water quality. They are based on the most recent analytical testing undertaken by the EA. There are six GQA grades (denoted A to F) defined by the concentrations of biochemical oxygen demand, total ammonia and dissolved oxygen.

The susceptibility of a site to **flooding** is assessed by reference to a Flood Map on the Environment Agency's website. These maps provide show natural floodplains - areas potentially at risk of flooding if a river rises above its banks, or high tides and stormy seas cause flooding in coastal areas.

There are two different kinds of area shown on the Flood Map:

1. Dark blue areas could be flooded by the sea by a flood that has a 0.5% (1 in 200) or greater chance of happening each year, or by a river by a flood that has a 1% (1 in 100) or greater chance of happening each year
2. Light blue areas show the additional extent of an extreme flood from rivers or the sea. These outlying areas are likely to be affected by a major flood, with up to a 0.1% (1 in 1000) chance of occurring each year.

These two colours show the extent of the natural floodplain if there were no flood defences or certain other manmade structures and channel improvements.

The maps also show all flood defences built in the last five years to protect against river floods with a 1% (1 in 100) chance of happening each year, or floods from the sea with a 0.5% (1 in 200) chance of happening each year, together with some, but not all, older defences and defences which protect against smaller floods.

The Agency's assessment of the likelihood of flooding from rivers and the sea at any location is based on the presence and effect of all flood defences, predicted flood levels, and ground levels.

It should also be noted that as the floodplain shown is the 1 in 100 year (or 1 in 200 year as appropriate), areas outside this may be flooded by more extreme floods (e.g. the 1 in 1000 year flood). Also, parts of the areas shown at risk of flooding will be flooded by lesser floods (e.g. the 1 in 5 year flood). In some places due to the shape of the river valley, the smaller floods will flood a very similar extent to larger floods but to a lesser depth.

If a site falls within a floodplain, it is recommended that a flood survey be undertaken by a specialist consultant who can advise on appropriate mitigating measures; i.e. raising slab levels, provision of storage etc.

COMAH & Explosive Sites

ALM obtain information from the Landmark Information Group with respect to COMAH or explosive sites within 1km of the proposed development site. ALM's report refers to any that are present, and recommends that the Client seeks further advice from the HSE.

Areas around COMAH sites (chemical plants etc) are zoned with respect to the implementation of emergency plans. The HSE are a statutory consultee to the local planning authority for all COMAH sites. The COMAH site may have to revise its emergency action plan if development occurs. This might be quite straightforward or could entail significant expenditure. Consequently, the COMAH site may object to a proposed development (although it is the Local Authority who have final say, and they are likely to place more weight on advice from the HSE).

Preliminary Conceptual Ground Model

The site's environmental setting (and proposed end use) is used by ALM to assess the significance of any contamination encountered during the subsequent ground investigation.

Assessment of contaminated land is based on an evaluation of pollutant linkages (source-pathway-receptor). Contaminants within the near surface strata represent a potential source of pollution. The environment (most notably groundwater), site workers and end users are potential targets.

Potential pollutant linkages are shown on a preliminary conceptual site model, presented as a Drawing in an Appendix to this Geoenvironmental Report. The preliminary model is revised in light of data arising from the subsequent ground investigation.

Generic Notes – ALM Geoenvironmental Investigations

02 - Ground Investigation Fieldwork

General

ALM Ground Investigations are undertaken in accordance with current UK guidance including:

- BS5930:2015 *"Code of practice for ground investigation"*
- BS10175:2013 *"Code of practice for the identification of potentially contaminated sites"*.
- *"Technical Aspects of Site Investigation"* – EA R&D Technical Report P5-065/TR (2000)
- *"Development of appropriate soil sampling strategies for land contamination"* – EA R&D Technical Report P5-066/TR (2001)
- Contaminated Land Reports 1 to 6, most notably CLR Report No. 4 *"Sampling strategies for contaminated land"*
- *"Guidance on the protection of housing on contaminated land"* – NHBC & EA R&D Publication 66 (2000)
- AGS: 1996 *"Guide to the selection of Geotechnical Soil Laboratory Testing"*
- BS1377:1990 *"British Standard Methods of Test for Soils for Civil Engineering Purposes"*

Exploratory hole logs are presented in Appendices to this Geoenvironmental Report. These logs include details of the:

- Investigation technique adopted .
- Samples taken.
- Descriptions of the strata and any groundwater encountered.
- Results of any in-situ testing.
- Any gas\groundwater monitoring well installed.

Exploratory Hole Locations

Exploratory hole locations are selected by ALM prior to commencement of fieldwork to provide a representative view of the strata beneath the site and to target potential contaminant sources identified during the preliminary investigation (desk study). Additional exploratory locations are often determined by the site engineer in light of the ground conditions actually encountered; this enables better delineation of the depth and lateral extent of organic contamination, poor ground, relict structures etc.

Investigation Techniques

Ground conditions can be investigated by a number of techniques; the procedures used are in general accordance with BS5930:2015 and BS1377:1990. Techniques most commonly used by ALM include:

- Machine excavated trial pits, usually equipped with a backactor and a 0.6m wide bucket.
- Cable percussive (Shell & Auger) boreholes, typically using 150mm diameter tools and casing.

- Window or Windowless Sampling boreholes. Constraints associated with existing buildings, operations and underground service runs can render some sites partly or wholly inaccessible to a mechanical excavator. In such circumstances, window sampling is often the most appropriate technique. A window sampling drilling rig can be manoeuvred in areas of restricted access and results in minimal disturbance of the ground (a 150mm diameter tarmac/concrete core can be lifted and put to one side). However, it should be noted that window sampling allows only a limited inspection of the ground (especially made ground with a significant proportion of coarse material).
- Rotary percussive open-hole probeholes are typically drilled using a tricone rock roller bit with air as the flushing medium. Probeholes are generally lined through made ground with temporary steel casing to prevent hole collapse.

Where installed, gas/groundwater monitoring wells typically comprise a lower slotted section, surrounded by a filter pack of 10 mm non-calcareous gravel and an upper plain section surrounded in part by a bentonite seal and in part by gravel or arisings. The top of the plain pipe is cut off below ground level and the monitoring well protected by a square, stopcock type manhole cover set in concrete, or the plain pipe is cut off just above ground level and the well protected by 100mm diameter steel borehole helmet set in concrete.

Monitoring well details, including the location of the response zone and bentonite seal are presented on the relevant exploratory hole logs.

In-situ Testing

Where relative densities of granular materials given on the trial pit are based on visual inspection only, they do not relate to any specific bearing capacities. However, wherever possible ALM employ a Mackintosh probe to assess relative density. Mackintosh probe results can be related to approximate allowable bearing capacities.

The relative densities of granular materials encountered in cable percussive boreholes and window sample boreholes are based on Standard Penetration Test (SPT) results. SPT's are carried out in boreholes, in accordance with BS 1377:1990, Part 9 Section 3.3. Where full penetration (600mm) is not possible, N values are calculated by linear extrapolation and are shown on the logs as $N^* = x$.

The strength of cohesive deposits is determined using a hand shear vane.

Shear strength test results reported on trial pit logs are considered to be more reliable than those reported on window sample logs. Significant sample disturbance occurs during window sampling and consequently shear strength results on disturbed window samples are generally lower than results obtained during trial pitting, in-situ or in large excavated blocks.

Sampling

Representative soil/fill samples are taken at regular intervals from the exploratory holes to assist in description of the ground and to allow selected laboratory testing to be performed. The type of sample taken is dependent on the nature of the stratum and the purpose of the analysis.

Where the soils encountered contain a significant proportion of coarse grained material, truly representative samples are not typically obtained - only the finer fraction is placed in sample containers. However, a visual estimate of the amount of coarse material is made on site.

NB: Coarse constituents not sampled are defined as: coarse gravel, cobbles and boulders. (i.e. any 'particles' with an average diameter greater than 20mm).

Occasionally, unrepresentative 'spot' samples are also taken from some exploratory locations for contaminant analysis, typically where unusual, localised pockets of materials are encountered.

Samples of soil for chemical testing are placed into 1 litre plastic tubs prior to delivery to the selected laboratory. Samples of water are taken in one litre, brown glass bottles and stored in cool boxes, at a temperature of <5°C, until delivery to the selected laboratory. Soil\fill samples for organic analysis are also stored in cool boxes.

Groundwater

Where encountered during fieldwork, groundwater is recorded on the exploratory hole log. If monitoring wells are installed, groundwater levels are also recorded on one or more occasions after completion of the fieldwork.

It should be borne in mind that the rapid excavation rates used during a ground investigation may not allow the establishment of equilibrium water levels. Water levels are likely to fluctuate with season/rainfall and could be substantially higher at wetter times of the year than those found during this investigation.

Long-term monitoring of standpipes or piezometers is always recommended if water levels are likely to have a significant effect on earthworks or foundation design.

Description of Strata

The soils encountered during an ALM ground investigation are described in general accordance with BS 5930. The descriptions and depth of strata encountered are presented on the exploratory hole logs and summarised in the Ground Conditions section within the main body of text.

The materials encountered in trial pits are logged, samples taken, and tests performed on the in-situ materials in the excavation faces, to depths of up to 1.2m; below this depth these operations are conducted at the surface on disturbed samples recovered from the excavation.

Key to Exploratory Hole Logs

Keys to logs are presented in the Appendix(ces) containing the logs. There are two Keys – Symbols & Legends and Terms & Definitions.

Generic Notes – ALM Geoenvironmental Investigations

03 - Geotechnical Laboratory Tests

General

Soil samples are delivered to the laboratory for testing along with a schedule of testing drawn up by ALM. All tests are carried out in accordance with BS 1377:1990.

The test results are presented as received in an Appendix to this Geoenvironmental Report.

The following laboratory tests are routinely carried out on a selection of samples:

- Atterberg limits (Plastic Limit, Liquid Limit, Plasticity Index) & Moisture Content
- Soluble sulphate & pH
- Quick Undrained Triaxial Shear Strength (on undisturbed 100mm diameter samples)

The additional tests are typically only scheduled where significant earthworks regrade is anticipated:

- Particle Size Distribution
- Five Point Compaction
- Particle Density
- California Bearing Ratio (CBR) on either undisturbed or re-compacted disturbed samples

Atterberg Limits & Moisture Content

The Liquid and Plastic Limits of samples of natural in-situ clay are determined using the cone penetrometer method and the rolling thread test. These tests enable determination of an average Plasticity Index (PI) for each “type” of clay, although judgement is applied where variable results are reported.

PI can be related to shrinkability (low, medium or high) and then to minimum founding depth. ALM typically only consider a soil to be shrinkable if the proportion finer than 63µm is >35%.

PI results are compared against guidance given in the NHBC Standards, Chapter 4.2 (revised April 2003), which advocates the use of modified Plasticity Index (I_p), defined as:

$$I'_p = I_p * (\% < 425\mu\text{m} / 100)$$

i.e. if PI is 30%, but the soil contains 80% < 425µm, then: $I'_p = 30 * 80/100 = 24\%$.

It should be noted that in accordance with the requirements of BS 1377, the % passing the 425µm sieve is routinely reported by testing labs.

ALM apply engineering judgment where PI results are spread over a range of classifications. Consideration is given to:

- the average values for each particular soil type (i.e. differentiate between residual soil and alluvium),
- the number of results in each class and
- the actual values.

Unless the judgment strongly indicates otherwise, ALM typically adopt a conservative approach and recommend assumption of the higher classification.

Soluble Sulphate and pH

Sulphates in soil and groundwater are the chemical agents most likely to attack sub-surface concrete, resulting in expansion and softening of the concrete to a mush. Another common cause of concrete deterioration is groundwater acidity.

The rate of chemical attack depends on the concentration of aggressive ions and their replenishment at the reaction surface. The rate of replenishment is related to the presence and mobility of groundwater.

ALM refer to BRE Special Digest 1 (SD1) *“Concrete in aggressive ground. Part 1: Assessing the aggressive chemical environment”* (2001). SD 1 provides definitions of:

- the nature of the site (greenfield, brownfield or pyritic)
- the groundwater regime (static, mobile or highly mobile)
- the Design Sulphate Class (DC Class) and
- the Aggressive Chemical Environment for Concrete (ACEC Class)

ALM reports clearly state each of the above for the site being considered.

The concentrations of sulphate in aqueous soil/fill extracts are determined in the laboratory using the gravimetric method. The results are expressed in terms of SO_4 for direct comparison with BS 5328:1997. The pH value of each sample was determined by the electrometric method.

SD1 also discusses determination of “representative” sulphate concentration from a number of tests. Essentially if <10 samples of a given soil-type have been tested, the highest measured sulphate concentration should be taken. If >10 samples have been tested, the mean of the highest 20% of the sulphate test results can be taken. With respect to groundwater, the highest sulphate concentration should always be taken.

With respect to pH (soil & groundwater) the value used is the lowest value if <10 samples have been tested and the mean of the lowest 20% if >10 samples have been tested.

Generic Notes – ALM Geoenvironmental Investigations

4A. Contamination Laboratory Analysis & Interpretation (including WAC)

Waste Classification & Waste Acceptance Criteria (WAC)

In the context of waste soils generated by remediation and/or groundworks activities on brownfield sites, the following definitions (from the Landfill Regulations 2002) apply:

- Inert (e.g. uncontaminated 'natural' soil, bricks, concrete, tiles & ceramics).
- Non-Hazardous (e.g. soil excavated from a contaminated site which contains dangerous substances, but at concentrations below prescribed thresholds).
- Hazardous (e.g. soil excavated from a contaminated site which contains dangerous substances at concentrations above prescribed thresholds).

Dangerous substances include compounds containing a variety of determinants commonly found in contaminated soils on brownfield sites, for example arsenic, lead, chromium, benzene etc.

Since 16th July 2005, landfill operators require Waste Acceptance Criteria (WAC) laboratory data, if soil waste is classified as **hazardous**, and such waste must have been subjected to pre-treatment. However, subject to WAC testing it may be possible to classify it as stable, non-reactive hazardous waste, which can be placed within a dedicated cell within the non-hazardous landfill.

ALM typically only include WAC analysis in site investigation proposals and reports, if significant off-site disposal (of soil classified as hazardous waste) is anticipated, for example where redevelopment proposals include basement construction etc.

If off-site disposal of soils classified as hazardous waste were undertaken during redevelopment, then WAC analysis should be scheduled at an early stage in the remediation programme.

However, organic compounds (BTEX, TPH, PAH, asbestos etc) are the most common contaminants that result in soils being classed as hazardous. These contaminants can often be dealt with by alternative technologies (e.g. by bioremediation or stabilisation) and consequently retention on site is often possible.

It should be noted that **non-hazardous** soil waste can go to a non-hazardous landfill facility; no further testing (eg WAC) is required.

Contamination Laboratory Analysis & Interpretation

An assessment of potential contaminants associated with the former usages of the site is undertaken with reference to DEFRA/Environment Agency R&D Publication CLR8 "*Potential contaminants for the assessment of land*" (2002) and the relevant DETR/DoE Industry Profile(s), where published.

Common Inorganic Contaminants

These can include:

- metals, most notably cadmium, copper, chromium, mercury, lead, nickel, and zinc.
- semi-metals, most notably arsenic, selenium, and (water soluble) boron
- non-metals, most notably sulphur
- inorganic anions, most notably cyanides (free & complex), sulphates, sulphides, and nitrates.

With respect to the terminology used by most analytical laboratories:

Total cyanide = Free cyanide + Complex cyanide

Total cyanide (CN) is determined by acid extraction; whereas free cyanide is the water soluble fraction.

Complex cyanide is "bound" in compounds and is hard to breakdown. Laboratory determination of complex CN involves subjecting the sample to uv digestion for determination of both free and total CN.

Thiocyanate (SCN) is a different species combined with sulphur.

Elemental sulphur (S) and free sulphur are the same. Total sulphur is all forms, including that present in sulphates (SO₄), sulphides etc

There are 2 forms of chromium (Cr), chromium VI and chromium III. Chromium VI is the more toxic of these. In soils, total chromium is determined by a strong aqua regia acid digestion. Chromium VI is an empirical method based on a water extract test.

Common Organic Contaminants

Petroleum hydrocarbons are a mixture of hydrocarbons produced from the distillation of crude oil. They include aliphatics (alkanes, alkenes and cycloalkanes), aromatics (single or multi benzene ringed compounds) and hydrocarbon-like compounds containing minor amounts of oxygen, sulphur or nitrogen.

Petroleum hydrocarbons can be grouped based on the carbon number range:-

- GRO – Gasoline Range Organics (typically C₆ to C₁₀). Also commonly referred to as PRO – Petroleum Range Organics
- DRO – Diesel Range Organics (typically C₁₀ to C₂₈)
- LRO - Lubricating Oil Range Organics (typically C₂₈ to C₄₀)
- MRO – Mineral Oil Range Organics (typically C₁₈ to C₄₄)

However, it should be borne in mind that the terms "GRO", "DRO", "LRO" analysis are purely descriptive terms, the exact definition of which varies.

Total Petroleum Hydrocarbons (TPH) is also a poorly defined term; some testing laboratories regard TPH as hydrocarbons ranging from C₅-C₄₄, whereas others define TPH as C₁₀-C₃₀. TPH cannot be assessed as a single "total" value, and reference has been made to the Environment Agency's document P5-080/TR3, "*The UK approach for evaluating human health risks from petroleum hydrocarbons in soils*". This document supports the assumptions and recommendations made by the US Total Petroleum Hydrocarbons Criteria Working Group (TPHCWG). This approach is in line with the TPHCWG documents volumes 1⁽¹⁾, 2⁽²⁾, 3⁽³⁾ and 4⁽⁴⁾.

The TPHCWG assessed "TPH" into thirteen representative constituent fractions or "Equivalent Carbon (EC) Bandings". EC Bandings are based around Equivalent Carbon numbers and the TPHCWG have derived a series of physiochemical and toxicological parameters for each of the thirteen EC bandings.

The composition of a TPH plume migrating through the ground can vary significantly; this is primarily dictated by the nature of the source (e.g. petrol, diesel, engine oil etc). Furthermore, different hydrocarbons are affected differently by weathering processes, and this can result in further variation in the chemical composition of the TPH.

Gasoline contains light aliphatic hydrocarbons (especially within the C₅ to C₁₀ range) that will rapidly evaporate. The aromatic hydrocarbons in gasoline are primarily benzene, toluene, ethylbenzene and xylenes, referred to as BTEX that are relatively volatile and soluble. Small amounts of polyaromatic hydrocarbons (PAHs) such as naphthalene may also be present.

Diesel and light fuel oils have higher molecular weights than gasoline. Consequently, they are less volatile and less water soluble. About 25 to 35% of diesel/light fuel oil is composed of aromatic hydrocarbons. BTEX concentrations are generally low.

Heavy Fuel Oils are typically dark in colour and considerably more viscous than diesel. They contain 15 to 40% aromatic hydrocarbons. Polar nitrogen, sulphur and oxygen-containing compounds (NSO) compounds are also present.

Lubricating Oils are relatively viscous and relatively insoluble in groundwater. They may contain 10 to 30% aromatics, including the heavier PAHs. NSO compounds are also common.

Polycyclic Aromatic Hydrocarbons (PAHs) have more than two fused benzene rings as a structural characteristic. PAH compounds are present in both petrol and diesel, although in significantly lower concentrations than in coal tars and heavier oils. Certain PAH compounds are carcinogenic (e.g. benzo(a)pyrene) and/or more mobile in the environment (e.g. naphthalene). PAH cannot be assessed as a single "total" value, as each individual PAH compound has different toxicity and mobility in the environment. Speciated analysis is required to determine the concentrations of the various compounds, most notably the key PAHs: benzo(a)Pyrene (considered the most toxic of the PAHs); and naphthalene (the most mobile and volatile of the PAHs).

Volatile (& Semi) Organic Compounds (VOCs/SVOCs) include a variety of compounds which have relatively low boiling points. However, VOC's are much more volatile than SVOC's. Examples of VOC's include benzene, chloroform and trichloroethene (e.g. chlorinated solvents); SVOC's include phenol, fluorine and 'lighter' PAHs. Both groups of chemicals are readily absorbed through skin and some, such as benzene, are believed to be linked to tumour growth.

Phenols are compounds that have a hydroxyl group attached to an aromatic ring (i.e. include a benzene ring and an –OH group). Most are colourless solids. A solution of phenol in water is known as carbolic acid, and is a powerful antiseptic. However, phenol vapour is toxic, and skin contact can result in burns.

Polychlorinated Biphenyls (PCBs) were used in pre-1974 transformers as dielectric fluids. PCB's possess increasing toxicity relative to the degree of chlorination, they do not degrade in the environmental and can bio-accumulate. Acute symptoms of PCB poisoning are irritation of the respiratory tract leading to coughing and shortness of breath. Nausea, vomiting and abdominal pain are caused by ingestion of PCB's.

Dioxins and furans (polychlorinated dibenzodioxins and polychlorinated dibenzofurans) are some of the most toxic chemicals known. In the environment, they tend to bio-accumulate in the food chain. Dioxin is a general term that describes a group of hundreds of chemicals that are highly persistent in the environment. The most toxic compound is 2,3,7,8 tetrachlorodibenzo-p-dioxin or TCDD.

Dioxin is formed by burning chlorine-based chemical compounds with hydrocarbons. The major source of dioxin in the environment comes from waste-burning incinerators and also from uncontrolled burning (e.g. bonfires). Dioxin pollution is also affiliated with paper mills which use chlorine bleaching in their process and with the production of Polyvinyl Chloride (PVC) plastics and with the production of certain chlorinated chemicals (like many pesticides).

Methods of Analysis (Organic Compounds)

TPH by GC-FID is an analytical technique which only detects hydrocarbons (aliphatic and aromatic) in the range C₁₀ to C₄₀ (volatiles, heavy tars, humic material and sulphur are not detected). The laboratory can provide a breakdown of the TPH results into gasoline range organics (**GRO**), diesel range organics (**DRO**) and heavier lubricating oil range organics (**LRO**).

GRO (PRO) by GC-FID analysis detects the more volatile C₆-C₉ hydrocarbons (aliphatic and aromatic), including those organic compounds present in petrol.

Speciated VOC (by GC-MS) analysis quantifies the concentrations of 30 USA-EPA priority compounds. These include chlorinated alkanes and alkenes (in the molecular weight range chloroethane to tetrachloroethane); trimethylbenzenes; dichlorobenzenes; and the 4 BTEX compounds (benzene, ethyl-benzene, toluene & xylene).

Speciated SVOC by (GC-MS) analysis quantifies the concentrations of a variety of organic compounds, including the chlorinated compounds 16 USA-EPA priority PAHs, phenolic compounds, 7 USA EPA priority PCB congeners, herbicides & pesticides.

Note: PAHs are hydrocarbons and consequently (where present) will be picked-up when testing TPH by GC-FID. Naphthalene (the lightest PAH) is also one of the 58 US EPA VOCs.

Speciated TPH by GC-MS provides a "banded" TPH, initially split into aromatic and aliphatic fractions and then further divided into fraction specific carbon bandings based upon behavioural characteristics and includes speciated BTEX compounds.

Note: Risk assessment models require physiochemical properties (solubilities, toxicities etc) of compounds in order to model their behaviour in the environment. These physiochemical properties cannot be derived from a single "TPH", "GRO" or "DRO" value. However, the carbon banded fractions can be used in risk assessment models.

Current UK Guidance

The UK approach to contaminated land is set out in Environment Agency Contaminated Land Report (CLR) No. 11 (2004) "*Model Procedures for the Management of Land Contamination*". The approach is based upon risk assessment, where risk is defined as the combination of the probability of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.

In the context of land contamination, there are three essential elements to any risk: (1) a contaminant source, (2) a receptor (e.g. controlled water or people) and (3) a pathway linking the (1) and (2). Risk can only exist where all three elements combine to create a pollutant linkage. Risk assessment requires the formulation of a conceptual model which supports the identification and assessment of pollutant linkages.

ALM adopts a tiered approach to risk assessment, consistent with UK guidance and best practice. The initial step of such a risk assessment (or '**Tier 1**') is the comparison of site data with appropriate UK guidance levels, ALM risk-derived screening values, or remedial targets.

Groundwater

Tier 1 **groundwater** risk assessments are undertaken by comparing soil leachate or groundwater concentrations with the appropriate water quality standard. Depending upon the specific characteristics and environmental setting of the site the appropriate standard is likely to be one of the following:

- Water Supply (Water Quality) Regulations 1989
- Environmental Quality Standards (for Freshwater)
- The Surface Waters (Abstraction for Drinking Water) Regulations

Hazardous Gas

Tier 1 risk assessment of **hazardous gas** is undertaken through reference to the following documents:

- Approved Document C, Building Regulations 2000
- Boyle & Witherington (2006) – ‘Guidance on evaluation on development proposals on sites where methane and carbon dioxide are present, incorporating “traffic lights”’. Report Ref. 10627-R01-(02), for NHBC
- CIRIA C665 (2007) – ‘Assessing risks posed by hazardous ground gases to buildings’
- BS 8485:2015 – ‘Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings’.
- BRE Report 211 (2007) – ‘Radon: Guidance on protective measures for new buildings’, Building Research establishment

Further information with respect to hazardous gas assessments is presented in ‘Generic Note No. 5 – Hazardous Gas’.

Soil Contamination – Human Health

In March 2002 DEFRA and the Environment Agency published a series of technical documents (R&D Publications CLR 7, 8, 9 and 10) outlining the UK approach to the assessment of risk to **human health** from land contamination and which replaced previously published guidance. In March 2004 DEFRA and the Environment Agency published a further four documents (‘Briefing Notes 1-4’) which expanded, or where necessary revised, the original R&D Documents.

Publications CLR 7, 8, 9 and 10 and Briefing Notes 1-4 set out the UK’s quantitative modelling approach to contaminated land (the *Contaminated Land Exposure Assessment* (CLEA) model). The CLEA model set out exposure frequency and duration assumptions, together with technical algorithms for the modelling of human health-related risks to contaminated land. The CLEA model led to the publication of Soil Guidance Values (SGVs) for certain contaminants of concern (‘SGV Reports’), based on collated published toxicity data for the contaminant in question (‘TOX Reports’)

In 2008 R&D Publications CLR 7, 9 and 10 and all corresponding SGV and TOX reports were withdrawn and superseded by new guidance including:

- Guidance on Comparing Soil Contamination Data with a Critical Concentration - CL:AIRE and CIEH, May 2008 ⁽⁵⁾ (effectively replaced CLR7)
- Evaluation of models for predicting plant uptake of chemicals from soil - Science Report – SC050021/SR ⁽⁶⁾
- Human health toxicological assessment of contaminants in soil - Science Report: SC050021/SR2 ⁽⁷⁾ (effectively replaced CLR9)
- Updated technical background to the CLEA model - Science Report: SC050021/SR3 ⁽⁸⁾ (effectively replaced CLR10)
- CLEA Software (Version 1.05) Handbook Science report: SC050021/SR4 ⁽⁹⁾ (replaced pre-existing CLEA software models released prior to 2009)
- Compilation of data for priority organic pollutants for derivation of Soil Guideline Values - Science Report: SC050021/SR7 ⁽¹⁰⁾ (presents a technical physiochemical reference for contaminants of concern)

The revised approach set out in the above documents represented current scientific knowledge and thinking; and included the revised Contaminated Land Exposure Model (CLEA version 1.06). The Environment Agency/DEFRA are intending to use this updated approach to regenerate a selection of Soil Guideline Values (SGVs) under Environment Agency Science Report SC050021 for Residential, Allotment and Commercial end use scenarios.

At the time of writing this report, SGV's are only available for a limited number of contaminants, the development of both the CLEA model and additional SGV's is ongoing, albeit probably now on hold in view of more recent guidance published by DEFRA in 2014 (see below). Where published, SGV's can be utilised as 'intervention values' for the purpose of an initial 'Tier 1' assessment.

In 2015 Land Quality Management and the Chartered Institute of Environmental Health (LQM/CIEH) published Tier 1 soil screening thresholds for assessing risks posed to human health from soil contamination ⁽¹¹⁾. These soil screening thresholds are called 'Suitable For Use Levels' or 'S4ULs'. The S4ULs have been published in the absence of any forthcoming additional SGVs published by the Environment Agency/DEFRA.

The S4ULs have been developed using a modified version of the CLEA model for a wider variety of landuses in line with revised human exposure to soil contamination assumptions and landuse classes recommended by DEFRA (2014) ⁽¹²⁾ (also see below) to reduce the over-conservatism that is commonly attributed to SGVs. However, the S4ULs remain based on the principles of 'minimal' or 'tolerable' risk enshrined in Science Report SC050021/SR2 ⁽⁷⁾ in that they utilise appropriate Health Criteria Values in their derivation. Thus the S4ULs are essentially equivalent to SGVs for the use of generic risk assessment under both the planning and Part 2A regimes.

The LQM/CIEH (2015) ⁽¹¹⁾ publication presents S4ULs for 85 substances including 11 metals, 4 BTEX compounds, 16 TPH fractions, 16 PAH compounds, 8 chloroalkanes/alkene compounds, 2 explosive compounds, 7 pesticide compounds, 6 chlorobenzene compounds and additional isomers, 3 phenol and chlorophenol compounds and other organic compounds.

The development of S4ULs has been carried out under a peer review process and in accordance with prevailing UK government guidelines that in no way undermines the validity of the existing guidance in SC050021/SR2 ⁽⁷⁾, SR3 ⁽⁸⁾, SR4 or the existing CLEA software ⁽⁹⁾. As such **ALM chooses to adopt the use of S4ULs with respect to the assessment of soil contamination posed to human health.** The appropriate S4UL for any given chemical determinand used in the Tier 1 screening process is presented in the various summary tables presented in this report for the appropriate landuse being considered.

It should be noted that exceedance of 'Tier 1' S4UL does not necessarily mean that remedial action will be required.

ALM's use of S4ULs as Tier 1 values is, however based on a number of assumptions, most notably:

- a. Contamination identified is located in the top 0.5m of soil on site. The CLEA model assumes that all exposure pathways are relevant within 0.6m of ground level.
- b. A conservative **Soil Organic Matter** of 1% is initially assumed.
(Note: TOC = SOM x 0.58; and FOC = TOC/100).
Hydrocarbons tend to be "bind" with SOM, and therefore become less mobile. Consequently, Tier 1 values can be revised if the amount of organic matter within the soil exceeds 1%.
- c. Some determinands reach **residual saturation** before a vapour risk is predicted to occur. Prior to residual saturation, as the concentration of a contaminant in soil increases, so does the concentration of the same contaminant in the associated vapour phase. However, once saturation is reached, the concentration of contaminant in the vapour phase remains constant (for any given atmospheric conditions – temperature and

pressure).

However, ALM recognise that it is unacceptable to leave free product in the ground and therefore arbitrary Tier 1 values have been ascribed to such contaminants. These values have been selected on the basis that they are below the limit of olfactory detection (i.e. at concentrations below Tier 1, odours are not readily identified).

Soil Contamination - Phytotoxicity

With respect to the assessment of potential **phytotoxic effects** of contaminants, ALM refer to BS3882:2015 for copper and zinc⁽¹³⁾. Nickel is also regarded as a phytotoxin, however, ALM adopts the S4UL for nickel due to its human health effects.

Soil Contamination – Building Fabric and Combustibility

The potential risk to **building materials** is considered through reference to relevant BRE Digests, with particular emphasis on BRE Special Digest 1, 'Concrete in aggressive ground', 2005.

With respect to the interpretation of the **calorific values**, at present there are no accepted methods to assess whether a sample is combustible and under what circumstances it might smoulder. Some guidance is given in ICRCL Note 61/84 "Notes on the fire hazards of contaminated land" which states that:

"In general...it seems likely that materials whose CV's exceed 10MJ/kg are almost certainly combustible, while those with values below 2MJ/kg are unlikely to burn".

Possible Action in Event of Tier 1 Exceedance

Should any of the Tier 1 criteria detailed above be exceeded, then three potential courses of action are available. (The first is only applicable in terms of human health, but the second and third could also be applied to groundwater or hazardous gas).

- Undertake further statistical analysis following the approach set out in CL:AIRE/CIEH 2008⁽⁵⁾ in order to determine whether contaminant concentrations of contaminants within soil/fill actually present a risk (only applicable to assessing the risk to human health).
- Carry out a more detailed quantitative risk assessment in order to determine whether contamination risks actually exist.
- Based on a qualitative risk assessment, advocate an appropriate level of remediation to "break" the pollutant linkage - for example the removal of the contaminated materials or the provision of a clean cover.

Prior to undertaking any statistical analysis contamination across the entire site needs to be characterised by reference to the Conceptual Site Model. Consequently, ALM gather and analyse sample results by soil/fill type, and/or by former use in a given sub-area of the site, before undertaking statistical analysis; i.e. the statistical data set is associated with the extent of a particular fill type, or an area affected by spillage/leakage.

In terms of brownfield redevelopment, this is considered a more appropriate methodology which provides a more representative sample population for statistical analysis.

Analysis by soil/fill type is appropriate for essentially immobile contaminants associated with a particular fill type, for example arsenic in colliery spoil, metals in ash & clinker, sulphate in plaster-rich demolition rubble etc.

Analysis by former use is appropriate where more mobile contaminants have entered the ground, for example diesel associated with leakage from a former fuel tank, downward migration of leachable metals through granular materials, various soluble contaminants

present in a wastewater leaking into the ground via a fractured sewer etc. In these circumstances, it may be appropriate to undertake statistical analysis of sample results from a variety of different soil/fill types. However, consideration would have to be given to factors such as porosity which might influence impregnation of a mobile contaminant into the soil mass; i.e. contamination would normally be more pervasive and significant in granular soils than cohesive soils.

Category 4 Screening Levels (C4SLs)

In March 2014, DEFRA published the findings of a research project relating to the development of 'Category 4 Screening Levels' (C4SLs)⁽¹²⁾ for assessing soil contamination with respect to human health risks. The project was carried out within the context of the revised Statutory Guidance to support Part 2A of the Environment Protection Act 1990 that was published in April 2012. The revised Statutory Guidance introduced a new four-category system for classifying land under Part 2A for cases of a Significant Possibility of Significant Harm to human health, where 'Category 1' includes land where the level of risk is clearly unacceptable and 'Category 4' includes land where the level of risk is acceptably low.

An impact assessment that accompanied the revised Part 2A Statutory Guidance identified that the current practice of 'generic' ('Tier 1') screening of soil contamination concentrations against published SGVs or other generic assessment criteria derived from the CLEA model, was too conservative and identified a potential new role for C4SLs in providing a simple test for deciding whether land is suitable for use and definitely not contaminated land.

The C4SLs are proposed to be more pragmatic (whilst still strongly precautionary) compared to the existing 'generic' screening levels (e.g. SGVs). The development of C4SLs used marginally less conservative human exposure assumptions associated with a wider variety of land use classes as well as modified assumptions on levels of tolerable doses. It is intended by DEFRA that the C4SLs will be used as new generic screening criteria, albeit describing a higher level of risk than the currently available SGVs.

Six substances were selected within the C4SL project because of their ubiquity within contaminated land risk assessments and a draft methodology for the derivation of C4SLs was subjected to peer review.

The final C4SLs derived for the 6 initially modelled contaminants of concern are presented in Table 5 below.

Table 5 – Final C4SLs (after DEFRA 2014 ⁽¹²⁾)

Substance	Residential (with home grown produce)	Residential (without home grown produce)	Allotments	Commercial	Public Open Space (Residential)	Public Open Space (Park)
Arsenic	37	40	49	640	79	168
Benzene	0.87	3.3	0.18	98	140	230
Benzo(a)pyrene	5	5.3	5.7	76	10	21
Cadmium	26	149	4.9	410	220	880
Chromium VI	21	21	170	49	23	250
Lead	200	310	80	2330	630	1300

Note - All C4SLs are expressed as mg/kg

With respect to the applicability of use of the C4SLs, the DEFRA 2014 report states:

"The Part 2A Statutory Guidance...(was) developed on the basis that Category 4 Screening Levels could be used under the planning regime... However policy responsibility for the National Planning Policy Framework and associated Planning Practice Guidance falls to the Department for Communities and Local Government"

“Where a valid SGV exists for a contaminant where a C4SL has been derived, it is anticipated that risk assessors will use the C4SL...In the absence of a suitable C4SL, risk assessors should identify and select appropriate GAC criteria in accordance with established good practice. It is for the Environment Agency to decide whether or not any of the SGVs will be updated in the light of more recent toxicological data or whether any particular SGV should be withdrawn.”

Until such time as C4SLs are formally adopted by the Department for Communities and Local Government into the National Planning Policy Framework and associated Planning Practice Guidance, ALM will adopt the use of the published LQM/CIEH S4ULs for ‘generic’ (‘Tier 1’) screening of soil contamination concentrations for the assessment of human health, unless otherwise advised by the Local Planning Authority in question that the use of C4SLs is appropriate. This is with the exception of lead, where ALM will adopt the C4SL presented in Table 5 above given that no recognised/published criteria (SGV or S4UL) for lead are available.

References

- (1) Total Petroleum Criteria Working Group Series, Volume 1 Analysis of Petroleum Hydrocarbons in Environmental Media, 1998.
- (2) Total Petroleum Criteria Working Group Series, Volume 2 Composition of Petroleum Mixtures, 1998.
- (3) Total Petroleum Criteria Working Group Series, Volume 3. Selection of Representative TPH Fractions Based on Fate and Transport Considerations, 1997
- (4) Total Petroleum Criteria Working Group Series, Volume 4. Development of Fraction Specific Reference Doses (RfDs) and Reference Concentrations (RfCs) for Total Petroleum Hydrocarbons (TPH), 1998.
- (5) Guidance on Comparing Soil Contamination Data with a Critical Concentration. CL:AIRE/Chartered Institute of Environmental Health, May 2008
- (6) Evaluation of models for predicting plant uptake of chemicals from soil Science Report – SC050021/SR, 2008
- (7) Environment Agency Science Report – SR2 Human health toxicological assessment of contaminants in soil, 2008
- (8) Environment Agency Science Report - SC050021/SR3 Updated Technical Background to the CLEA Model (as amended 2009)
- (9) Environment Agency Science Report - SC050021/SR4 CLEA Software (Version 1.05) Handbook, 2009
- (10) Environment Agency Science Report – SR7 Compilation of Data for Priority Organic Pollutants for the Derivation of Soil Guidelines Values, 2008
- (11) The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Management/Chartered Institute of Environmental Health. 2015
- (12) DEFRA. SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. Department for Environment Food and Rural Affairs. March 2014
- (13) BS3882:2015 – Specification for Topsoil. British Standards Institution

Generic Notes – ALM Geoenvironmental Investigations

05 - Hazardous Gas

General

Hazardous gas is considered to be any mixture of potentially explosive, toxic or asphyxiating gases, most notably methane, carbon dioxide and oxygen (deficiency). In addition, radon, a naturally occurring radioactive gas, is also considered. Further information about radon is included in 'Generic Notes 01 – Environmental Setting' in Appendix A of this report.

Recent guidance on the preliminary risk assessment, investigation and risk assessment of ground gas is presented in NHBC NF94 (2023)^{vii} 'Hazardous Ground Gas – an essential guide for house builders'.

An 'initial' assessment of potential risks associated with hazardous gas are based on a review of data obtained from desk study searches, such as a review of historical maps and other historical records (for evidence of backfilled quarries, railway cuttings, colliery spoil tips etc), information held by the Environment Agency and the Local Authority (current and historical landfill sites etc) as well as a review information obtained from the British Geological Survey and the Coal Authority. Such information is used to develop a Preliminary Conceptual Site Model to identify viable potential on site and off site gas sources and potential gas migration pathways.

Where landfilling of wastes has occurred within 250m of the site boundary, the Local Planning Authority may request a hazardous gas investigation in accordance with the Town and Country Planning General Development Order 1988.

Sources

Potential sources of hazardous gas are:

- Landfill sites
- Made ground, especially where significant depths are present.
- Shallow mineworkings associated with coal extraction.
- Geological strata, including peat, organic silts, coal-bearing strata and limestone (reaction with acidic waters), granite (radon).
- Groundwater can sometimes act as a "carrier" for dissolved hazardous gas.
- Leakages from pipelines or storage tanks
- Sewers, septic tanks and cess pits

Generation

Wherever biodegradable material is deposited, hazardous gas (principally a mixture of methane and carbon dioxide) is likely to be generated by microbial activity. Carbon dioxide is an asphyxiant and is toxic; methane is flammable and a mixture containing between 5% and 15% methane by volume in air can be explosive. Such gas in the ground is unlikely in itself to pose a significant risk, though it may cause vegetative stress to some plants.

However, the migration/accumulation of these gases into confined spaces within buildings (e.g. cellars, services, etc) may give rise to significant risk.

The composition, concentration and length of time gas is produced depends on a number of factor including the organic fraction/nature of organic fraction present, the depth of fill materials, the moisture content of the materials, groundwater conditions etc.

Migration

Gas migration from a gas source may occur in several ways. It may migrate through adjacent strata; the distance of migration being dependent on the pressure gradients, volume of gas and permeability of the strata. Where there are faults, cavities and fissures within the strata, gas may move considerable distances. Other migration pathways for gas include man-made features such as mine shafts, roadways and underground services.

Gas migration can be influenced by a number of climatic factors, such as atmospheric pressure variations, water table level variations and the influence of a covering of snow or ice over the surface of the site and surrounding area.

Gas Monitoring Procedure

ALM adopts a gas monitoring procedure in accordance with guidance contained within CIRIA Report C665 (2007) "*Assessing Risks Posed By Hazardous Ground Gases to Buildings*". This procedure involves the measurement, in the following order of:

- Atmospheric temperature, pressure and ambient oxygen concentration on site immediately prior to and on completion of monitoring.
- Gas emission rate.
- Methane, oxygen and carbon dioxide concentrations using an infra-red gas analyser.
- Standing water level using an electronic dipmeter.

In addition, ground conditions at each sampling location are recorded together with prevailing weather conditions and any other observations such as any vandalism.

Where samples of gas are required for laboratory analysis, Gresham Tubes or Tedlar bags are used. Gas concentrations in the well are typically recorded immediately before and after retrieval of a sample.

Site Characterisation - Current Guidance

CIRIA Report 151 (1995)ⁱ identified that there was inadequate guidance on trigger concentrations for ground gases. CIRIA concluded that the most important aspect of a gas regime below or adjacent to a site was the surface emission rate, i.e. how quickly the gas is coming out of the ground. The lower the surface emission rate, the lower the risk.

CIRIA Report C665 (2007)ⁱⁱ advocates two methodologies for characterising sites:

Situation A – All developments except low rise housing. The advocated methodology is that proposed by Wilson & Card, 1999ⁱⁱⁱ.

Situation B – Low rise housing. An alternative ('traffic light') methodology, derived by Boyle and Witherington, 2006^{iv} for the NHBC

Both methodologies refer to 'Gas Screening Values' (GSV) (previously known as limiting borehole gas volume flow).

'Situation A' – All developments except low rise housing.

Wilson & Card, (1999)ⁱⁱⁱ revised Table 28 of CIRIA Report 149^v in terms of a Gas Screening Value (GSV) based on the detected gas concentration and gas flow rate (l/hr) in order to achieve a more consistent design of protection measures. This was done to reflect the importance of recognising the gas surface emission rate.

Wilson & Card then developed a method for classifying gassing sites (Table 1 below), which took into account the combined gas concentration and GSV.

Table 1 – Site Classification (Wilson & Card)

Characteristic Situation (Wilson & Card, 1999)	Gas Screening Value, CH ₄ or CO ₂ (l/hr)	Additional limiting factors	Typical source of generation
1	<0.07	Methane not to exceed 1%v/v and carbon dioxide not to exceed 5%v/v	Natural soils with high organic content
2	<0.7	Borehole air flow rate not to exceed >70ltr/hr otherwise increase to Characteristic Situation 3	Natural soils with high peat/organic content
3	<3.5		Old landfill, inert waste, flooded mineworkings
4	<15	Quantitative Risk Assessment required to evaluate scope of protection measures	Mineworkings susceptible to flooding, completed landfill, inert waste (WMP 26B criteria)
5	<70		Mineworkings, unflooded, inactive
6	>70		Recent landfill sites

Notes:

Borehole flow rate = volume of gas (regardless of composition) which is escaping from well (l/hr).

Gas Screening Value (litre/hour) = gas concentration (%) / 100 x borehole flow rate (l/hr).

To facilitate design implementation, the limiting values for both methane and carbon dioxide are identical.

'Situation B' – Low rise housing.

The NHBC developed a characterisation system similar to that of Wilson & Card above, but specific to low-rise housing development (Boyle and Witherington^{iv}) (see Table 2). This approach compares measured gas emission rates with generic risk-based "Traffic Lights". The Traffic Lights include "Typical Maximum Concentrations" of gas for initial screening, and risk-based Gas Screening Values (GSVs) for consideration of situations where the Typical Maximum Concentrations are exceeded. Calculations are carried out for both methane and carbon dioxide and the worse case adopted in order to establish the appropriate gas protection measures to be adopted within the low rise housing development.

Table 2 - NHBC Traffic light system for 150 mm void (From CIRIA Report C665, Table 8.7)

Traffic light		Methane ¹		Carbon dioxide ¹	
		Typical maximum concentration ⁵ (% v/v)	Gas screening value (GSV) ^{2,4,6} (litres per hour)	Typical maximum concentration ⁵ (% v/v)	Gas screening value (GSV) ^{2,3,4,5} (litres per hour)
Green	{	1	0.16	5	0.78
Amber 1		5	0.63	10	1.56
Amber 2		20	1.56	30	3.13
Red					

Notes:

1. The **worst gas-regime** identified at the site, either methane or carbon dioxide, recorded from monitoring in the worst temporal conditions, will be the decider for which Traffic Light and GSV is allocated.
2. Generic GSVs are based on guidance contained within “The Building Regulations: Approved Document C” (2004) and assume a **sub-floor void** of 150 mm thickness.
3. The **small room** is considered to be a downstairs toilet, with dimensions of 1.50 × 1.50 × 2.50 m, with a soil pipe passing into the sub-floor void.
4. The **GSV**, in litres per hour, is as defined in Wilson and Card (1999) as the borehole flow rate multiplied by the concentration in the air stream of the particular gas being considered.
5. The Typical Maximum Concentrations can be exceeded in certain circumstances should the conceptual site model indicate it is safe to do so. This is where professional **judgment** will be required, based on a thorough understanding of the gas regime identified at the site where monitoring in the worst temporal conditions has occurred.
6. The GSV thresholds should not generally be exceeded without completion of a detailed gas risk assessment taking into account site-specific conditions.

Type And Design Of Gas Protection Measures

BS 8485:2015^{vi} gives recommendations on the choice of solutions for the design of integral gas protective measures for new buildings to prevent entry of carbon dioxide and methane to provide a safe internal environment.

BS 8485:2015 utilises ‘Characteristic Gas Situations’ (CS), as determined by the calculated Gas Screening Value (GSV) as presented in CIRIA Report C665 (Table 1 above). The appropriate CS for the site (or site zone) is used to determine the type and nature of gas protection systems within any given building utilising a **Gas Protection Score** – see Table 3.

Table 3
Gas Protection Score By CS and Type of Building
(Modified from Table 4 of BS 8485:2015)

CS	Minimum Gas Protection Score			
	High Risk	Medium Risk		Low Risk
	Type A Building ¹	Type B Building ²	Type C Building ³	Type D Building ⁴
1	0	0	0	0
2	3.5	3.5	2.5	1.5
3	4.5	4	3	2.5
4	6.5 ^A	5.5 ^A	4.5	3.5
5	- ^B	6.5 ^A	5.5	4.5
6	- ^B	- ^B	7.5	6.5

Notes:

1	Private ownership with no structural management controls on alterations to the internal structure and use of rooms, the ventilation of rooms or the structural fabric of the building. Some small rooms present. Probably conventional building construction (rather than civil engineering). Examples include private housing and some retail premises.
2	Private or commercial property with central building management control of any alterations to the building or its uses but limited or no central building management control of the maintenance of the building, including the gas protection measures. Multiple occupancy. Small to medium size rooms with passive ventilation of rooms and other internal spaces throughout ground floor and basement areas. May be conventional building or civil engineering construction. Examples include managed apartments, multiple occupancy offices, some retail premises and parts of some public buildings (such as schools, hospitals, leisure centres) and parts of hotels.
3	Commercial building with central building management control of any alterations to the building or its uses and central building management control of the maintenance of the building, including the gas protection measures. Single occupancy of ground floor and basement areas. Small to large size rooms with active ventilation or good passive ventilation of all rooms and other internal spaces throughout ground floor and basement areas. Probably civil engineering construction. Examples include offices, some retail premises, and parts of some public buildings (such as schools, hospitals, leisure centres and parts of hotels).
4	Industrial style building having large volume internal space(s) that are well ventilated. Corporate ownership with building management controls on alterations to the ground floor and basement areas of the building and on maintenance of ground gas protective measures. Probably civil engineering construction. Examples are retail park sales buildings, factory shop floor areas, warehouses. (Small rooms within these style buildings should be separately categorised as Type B or Type C).
A	Residential buildings should not be built on CS4 or higher sites unless the type of construction or site circumstances allow additional levels of protection to be incorporated, e.g. high-performance ventilation or pathway intervention measures, and an associated sustainable system of management of maintenance of the gas control system, e.g. in institutional and/or fully serviced contractual situations.
B	The gas hazard is too high for this empirical method to be used to define the gas protection measures.

Having determined the minimum Gas Protection Score for the building, an element, or combination of elements, of gas protection should be chosen to achieve a combined score achieving the minimum level of recommended gas protection.

The elements of gas protection are essentially categories into three components each providing a corresponding score:

	Score *
1. Structural Barrier (floor slab or basement slab/walls)	0 – 2.5
2. Sub Floor Ventilation Measures	0.5 - 4.0
3. Gas Resistant Membrane	2

* Scores vary depending on relative performance of differing systems or elements, as presented in Tables 5-7 of BS 8485:2015

Site Characterisation Without Gas Monitoring

If deemed necessary from preliminary risk assessment, ALM would advocate an appropriate programme of gas monitoring, undertaken in general accordance with CIRIA C665 (2007), specific to the nature of development proposed and identified gas sources and pathway. However, in some circumstances, gas monitoring may not be deemed appropriate or warranted, for example where only shallow materials possessing a low degradable content are present on site.

Annex D of BS 8485:2015 provides guidance for an empirical approach to characterizing sites without gas monitoring data where the source(s) of ground gas on the site is made ground with a low degradable organic content.

In this approach the representative gas regime (CS) is assigned based on:

- The conceptual site model, derived by updating the preliminary conceptual site model to take into account geological, hydrogeological and geotechnical data of an adequate ground investigation conducted to inform the design of the development.
- Knowledge of the Total Organic Carbon (TOC) content of potential ground gas generating made ground.
- A detailed examination of the made ground soil material.

This approach should be adopted with caution and should not be applied on its own to assess off-site sources or materials associated with waste disposal, and should only be used to define sites with very low to moderate hazard potential.

Table 4 below presents the limiting factors that are presented in BS 8485:2015 in assigning a Characteristic Gas Situation (CS) without gas monitoring.

Table 4
Limiting Values of Thickness and Organic Content
in Assigning a Characteristic Gas Situation Without Gas Monitoring
(Adapted from Table D.1 BS 8584: 2015)

Thickness of Made Ground	Maximum Total Organic Carbon Content of Made Ground - TOC		Site Characteristic Situation (CS) to be Assumed
	Made Ground in place for <20 years %	Made Ground in place for >20 years %	
Maximum 5m Average <3m	≤ 1.0	≤ 1.0	CS1
Maximum 5m Average <3m	≤ 1.5	≤ 3.0	CS2
Maximum 5m Average <3m	≤ 4.0	≤ 6.0	CS3

Notes:

The above is for guidance only.

Gas monitoring would be required where TOC is greater than 4% (or 6% in old made ground).

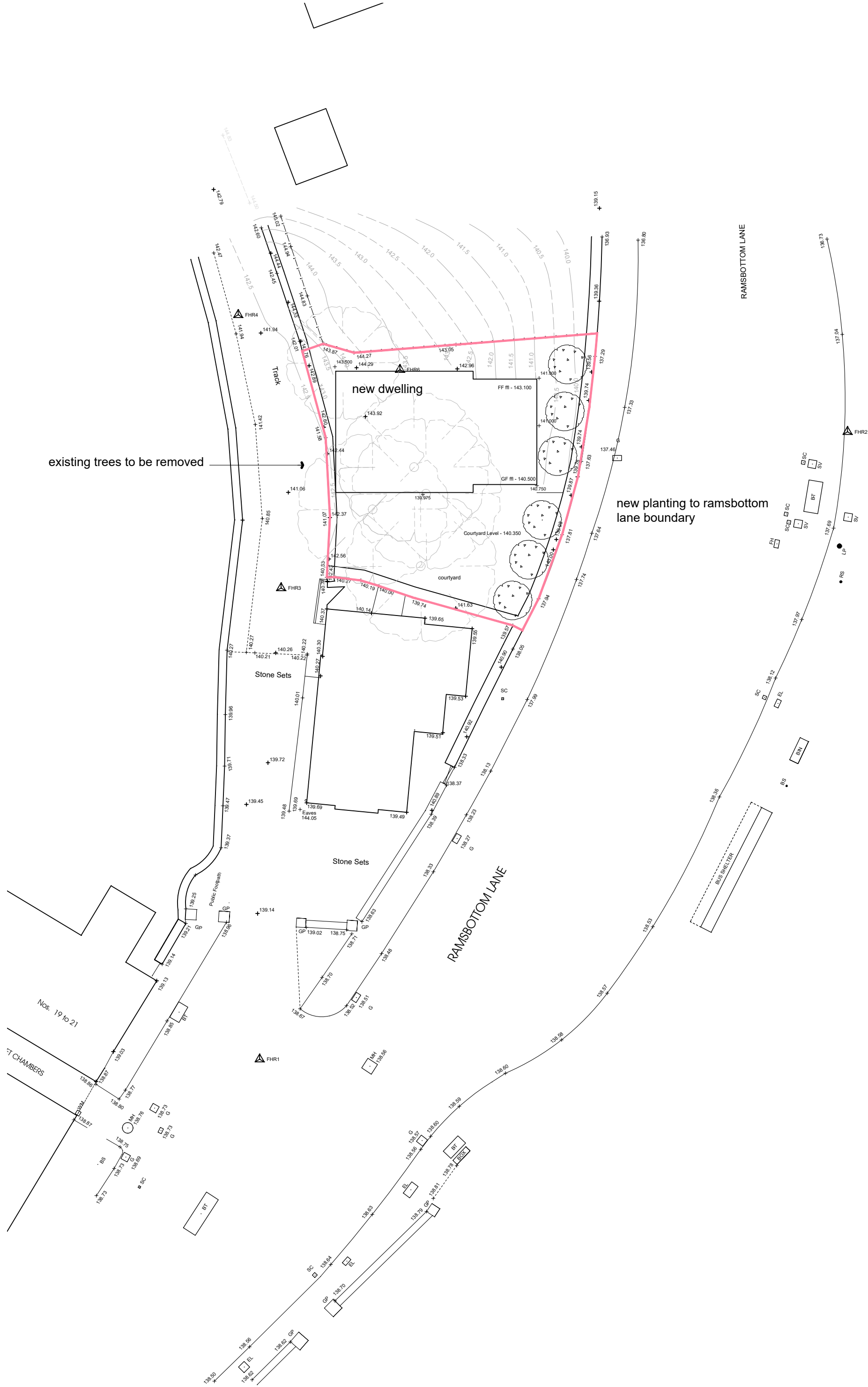
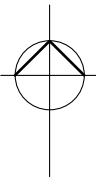
ALM would always advocate gas monitoring where made ground is present at the thicknesses presented above.

ALM consider that where <1.0m of made ground is present the CS may be subject to revision due to the reduced potential for ground gas generation.

-
- i CIRIA Report 151 (1995). Interpreting measurements of gas in the ground. Harries CR, Witherington PJ and McEntee JM
 - ii CIRIA Report C665 (2007), Assessing risks posed by hazardous ground gases to buildings.
 - iii Wilson SA and Card GB Reliability and Risk in Gas Protection Design. Ground Engineering, 32 **2** February 1999
 - iv Boyle & Witherington (2006) – Guidance on evaluation on development proposals on sites where methane and carbon dioxide are present, incorporating “traffic lights”. Report Ref. 10627-R01-(02), for NHBC
 - v CIRIA Report 149 (1995). Protecting Development from Methane. Card GB
 - vi BS 8485:2015 Code of Proactive for the Design of Protection Measures for Methane and Carbon Dioxide Ground Gases for New Buildings. British Standard Institution.
 - vii NHBC NF94 (2023) – Hazardous Ground Gas – an essential guide for housebuilders

APPENDIX B

Drawings



B 03.03.2019 updated to new layout
A 08.10.2018 position of building
revised to suit new layout
status
PLANNING
job no
18.02
title
proposed site plan

scale
1:200 @ A3
date
03.10.2018

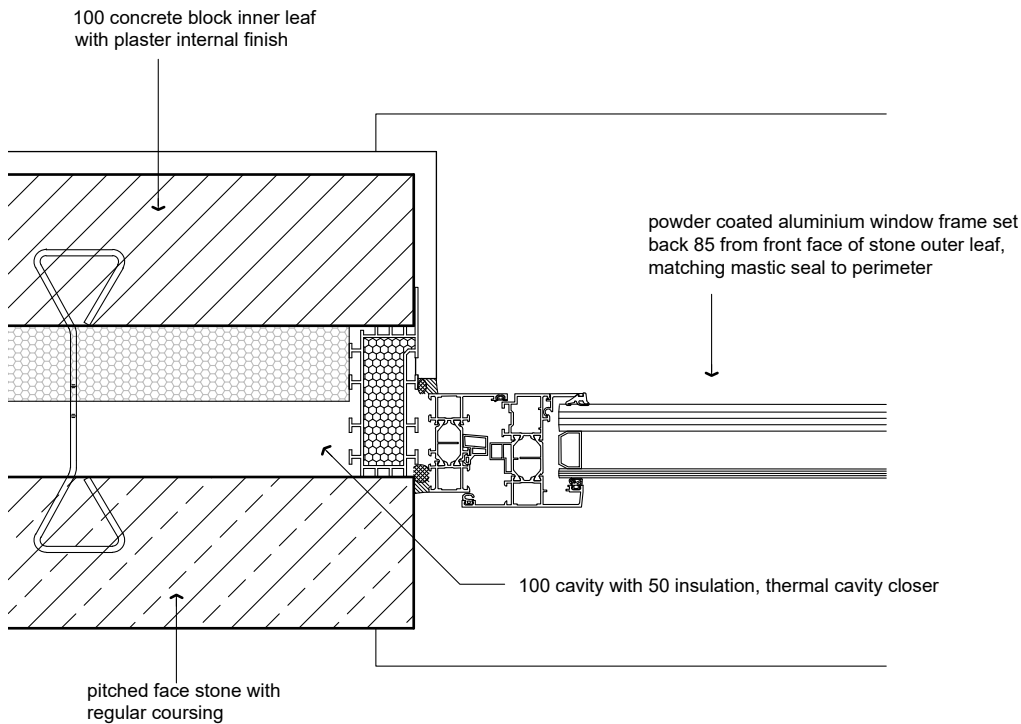
project
new dwelling
ramsbottom lane
ramsbottom

client
yarn estates ltd

SSHARC Ltd

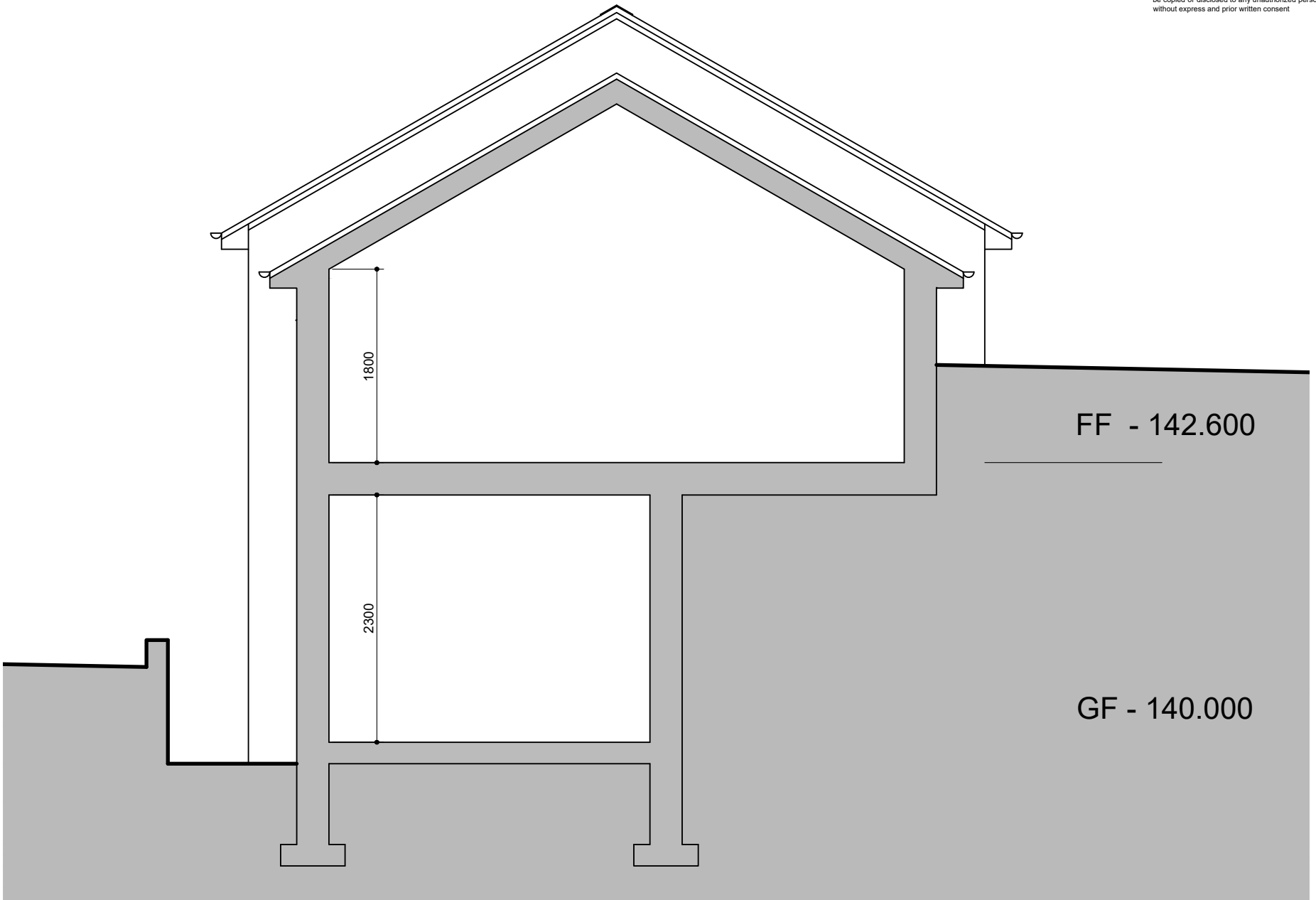
drawing number

03_B



○ window jamb detail

Scale: 1:5



○ section

Scale: 1:50

A 03.03.2019 window

detail added

status

PLANNING

job no

18.02

title

proposed section

window jamb detail

scale

1:100 1:5 @ A3

date

03.03.2019

project

new dwelling
ramsbottom lane
ramsbottom

client

yarn estates ltd

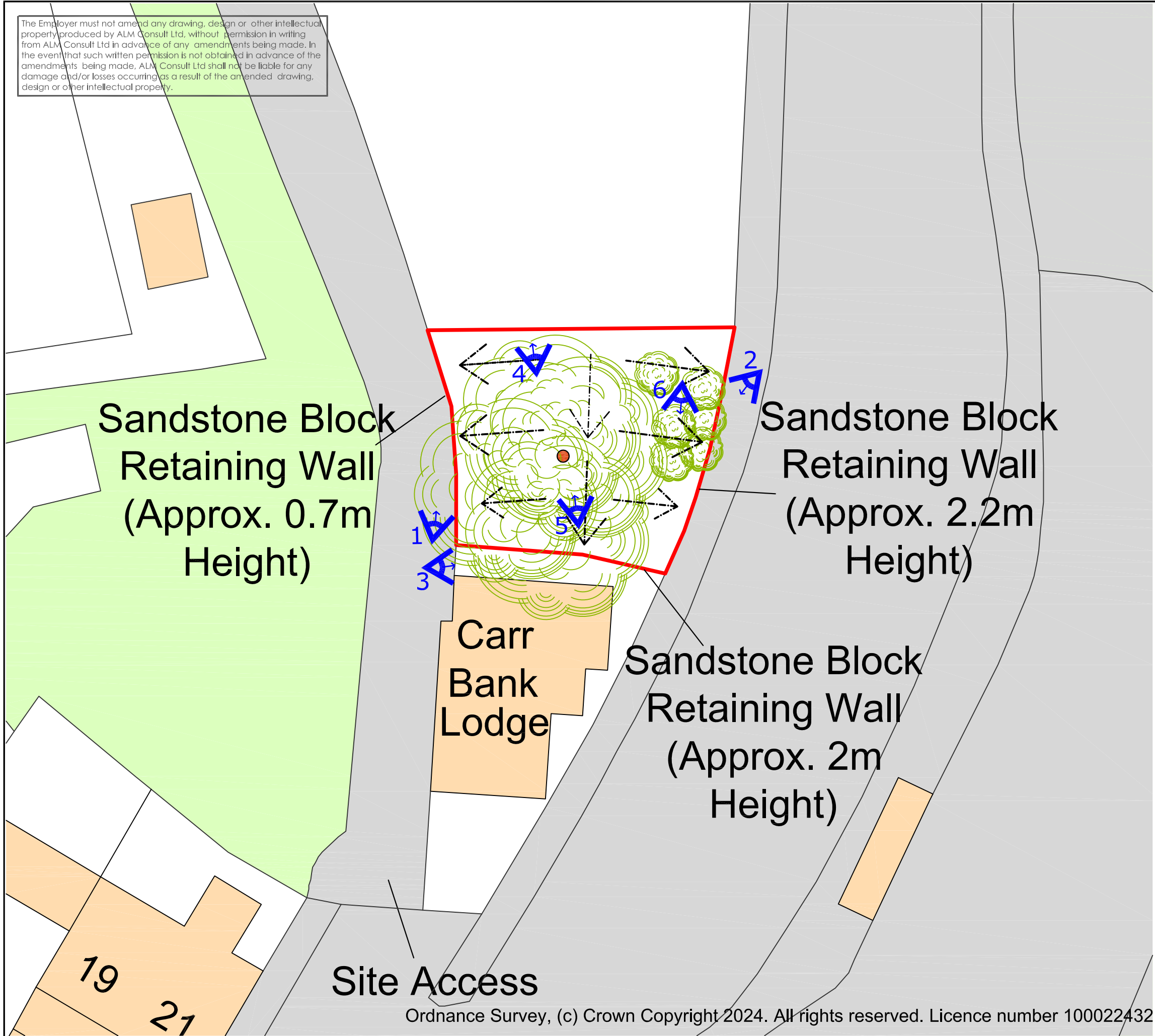
SSHARC Ltd

drawing number

09 _A

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- KEY
- Site Boundary
 - Existing Buildings
 - Hardstanding
 - Elevation Trend
 - Selected Photographs
 - Trees



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T: 01695 213160 E: info@almconsult.co.uk

CLIENT
GRAHAM SCHOFIELD ASSOCIATES

JOB TITLE
CARR BANK LODGE, RAMSBOTTOM

DRAWING TITLE
SITE FEATURES AND PHOTOGRAPH LOCATION PLAN

STATUS
FINAL

DRAWN BY DB	SIGNATURE	DATE 03/04/2024
-----------------------	-----------	---------------------------

APPROVED KL	SIGNATURE	DATE 03/04/2024
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SCALE 1/200@A3	DRG No. 30359-2
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SOURCES

A Off-Site Landfill

PATHWAYS

- A Leaching
- B Groundwater Flow
- C Lateral Migration (Diffuse Flow)

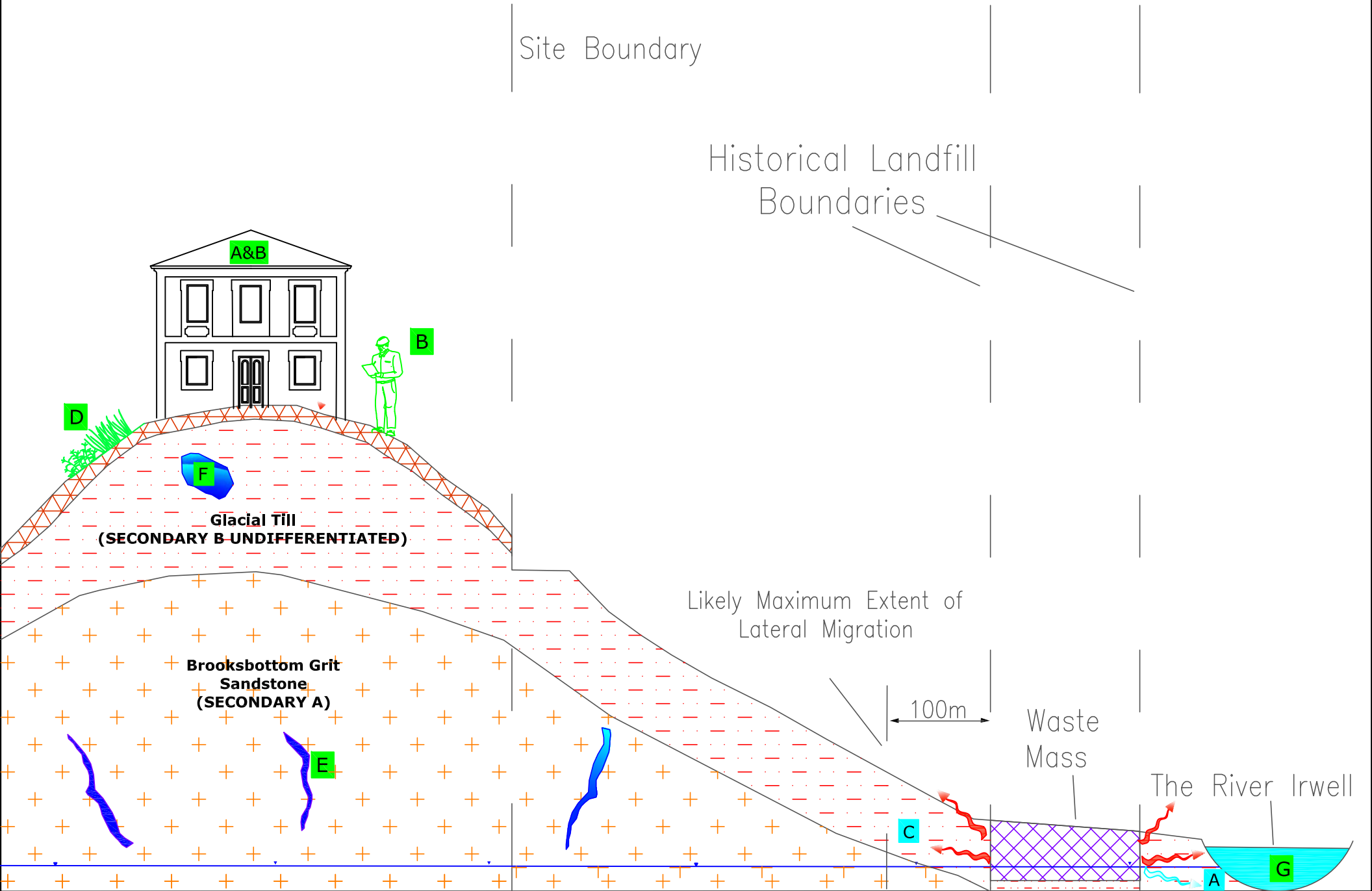
RECEPTORS

- A Human Health: Residents / End Users
- B Human Health: Construction Workers
- C Human Health: Construction Workers
- D Vegetation (food crops)
- E Controlled Waters: Secondary A Aquifer
- F Controlled Waters: Secondary B Undifferentiated Aquifer
- G Controlled Waters: River Irwell

KEY

- Groundwater
- Surface Water
- Topsoil
- Glacial Till Deposits
- Sandstone Bedrock
- Landfill Waste Mass
- Pathways
- Ground Gas

NW SE



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CLIENT

GRAHAM SCHOFIELD ASSOCIATES

JOB TITLE

CARR BANK LODGE, RAMSBOTTOM

DRAWING TITLE

CONCEPTUAL SITE MODEL

STATUS FINAL

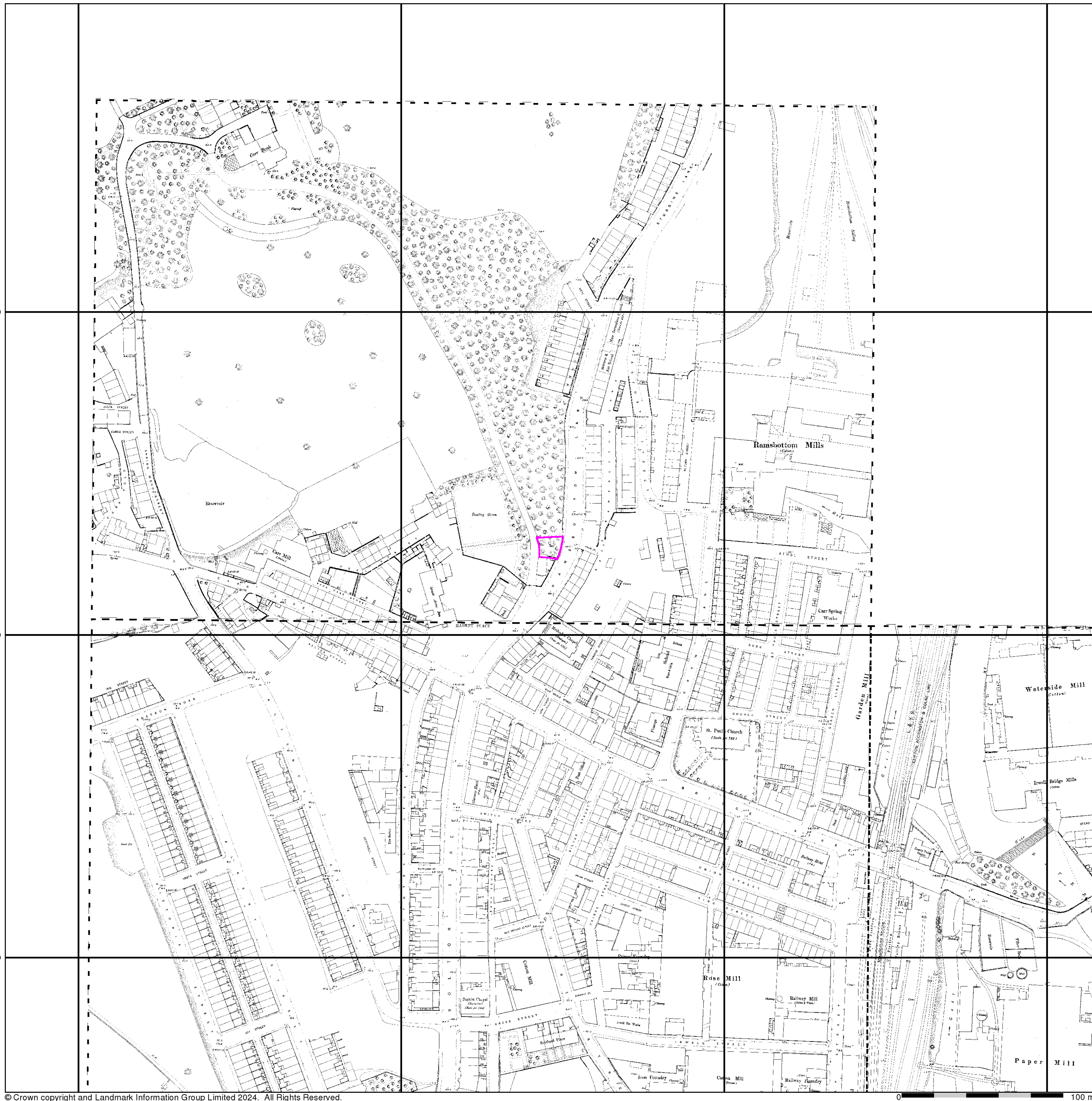
DRAWN BY DB SIGNATURE DATE 03/04/2024

APPROVED KL SIGNATURE DATE 03/04/2024

SCALE NTS DRG No. 30359/3

APPENDIX D

Historical OS Maps



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A horizontal scale bar with alternating black and white segments. It is labeled '0' at the left end and '100 m' at the right end.

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Lancashire And Furness

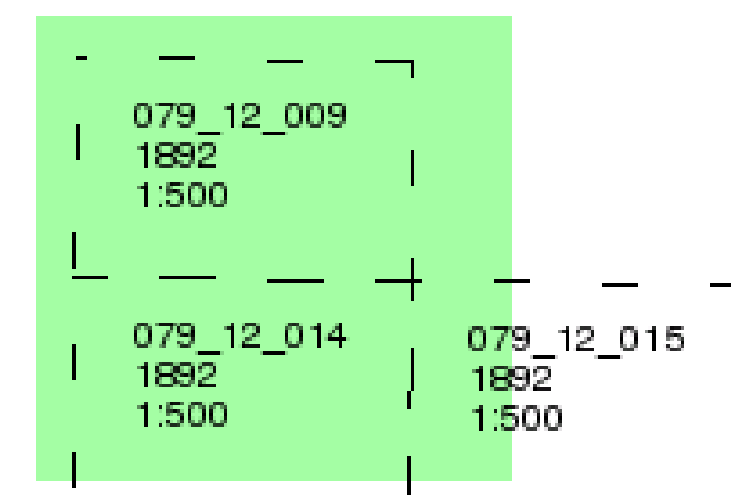
Published 1892

Source map scale - 1:500

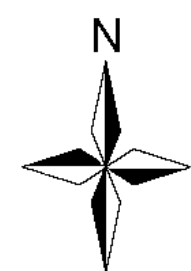
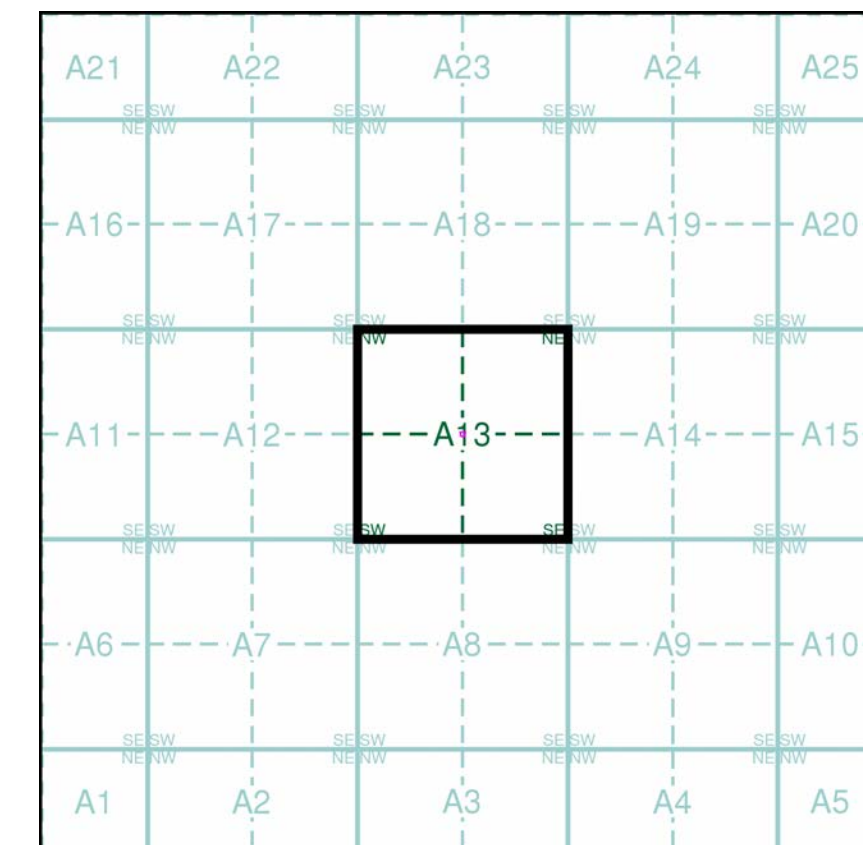
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to complement the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



Order Details

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Search Buffer (m): 0

Site Details

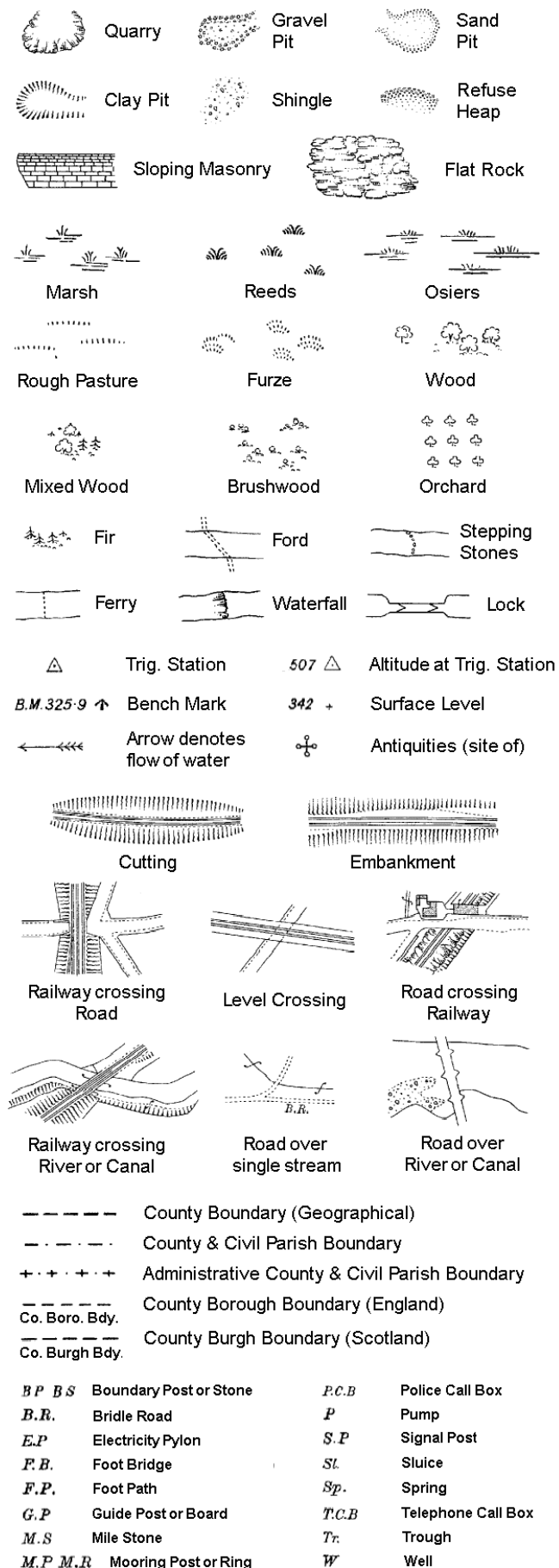
Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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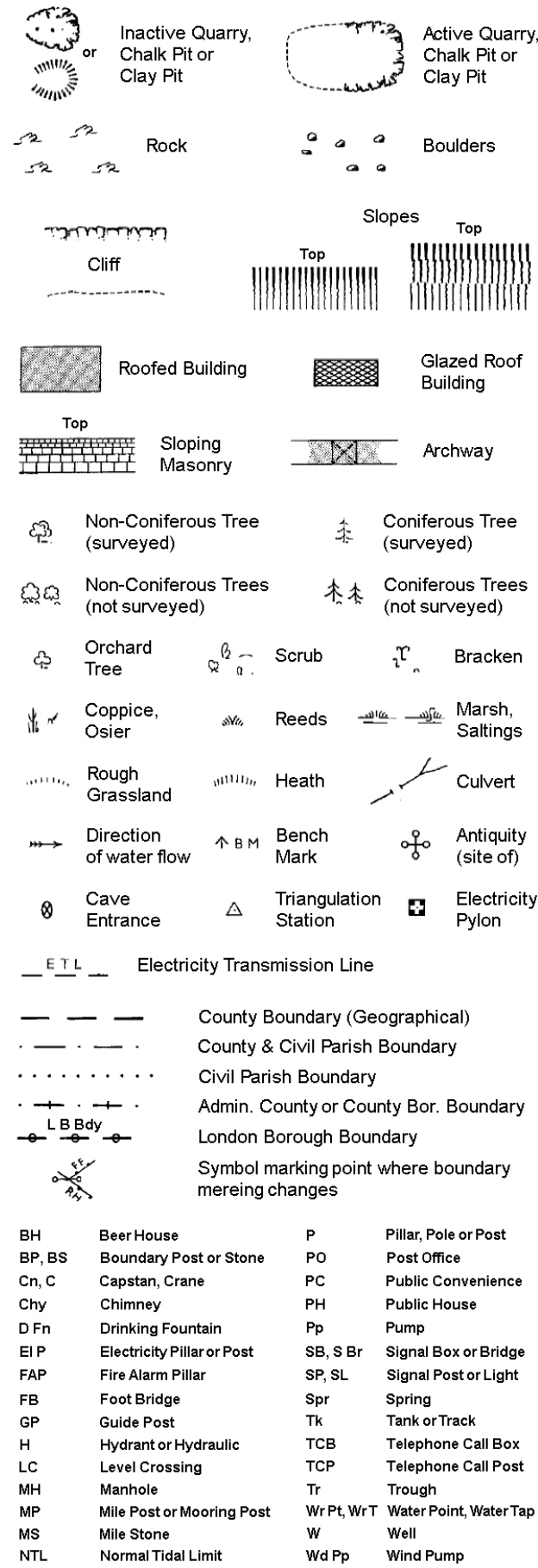
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

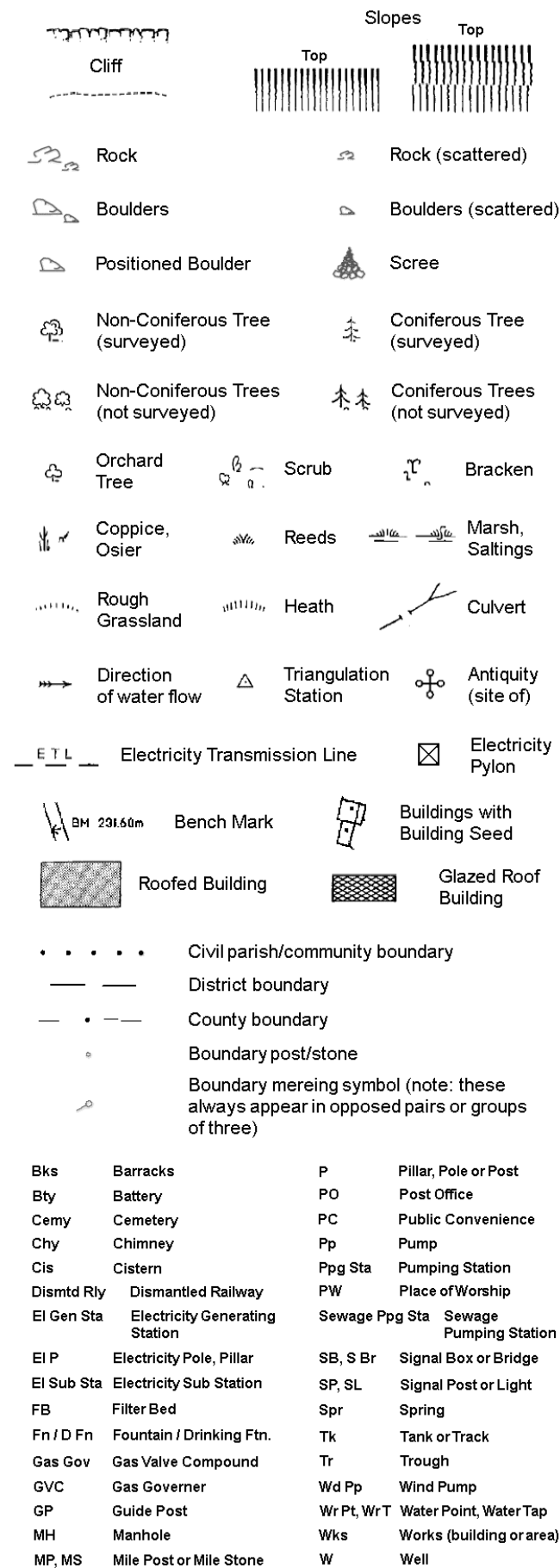
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



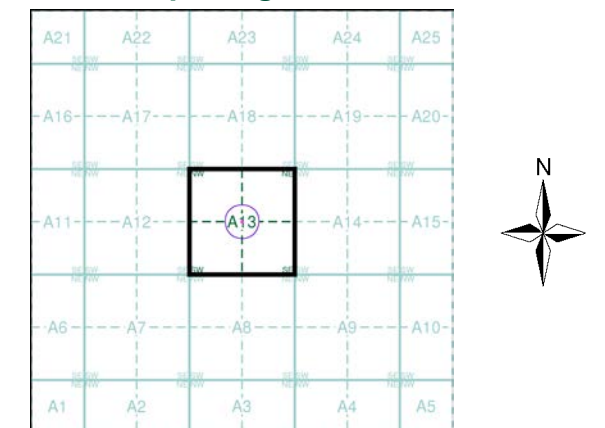
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1929	4
Lancashire And Furness	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1963 - 1964	6
Ordnance Survey Plan	1:1,250	1978	7
Ordnance Survey Plan	1:2,500	1983	8
Additional SIMs	1:1,250	1989	9
Large-Scale National Grid Data	1:1,250	1992	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1994	12
Large-Scale National Grid Data	1:1,250	1996	13
Large-Scale National Grid Data	1:1,250	1996	14
Historical Aerial Photography	1:2,500	2001	15

Historical Map - Segment A13



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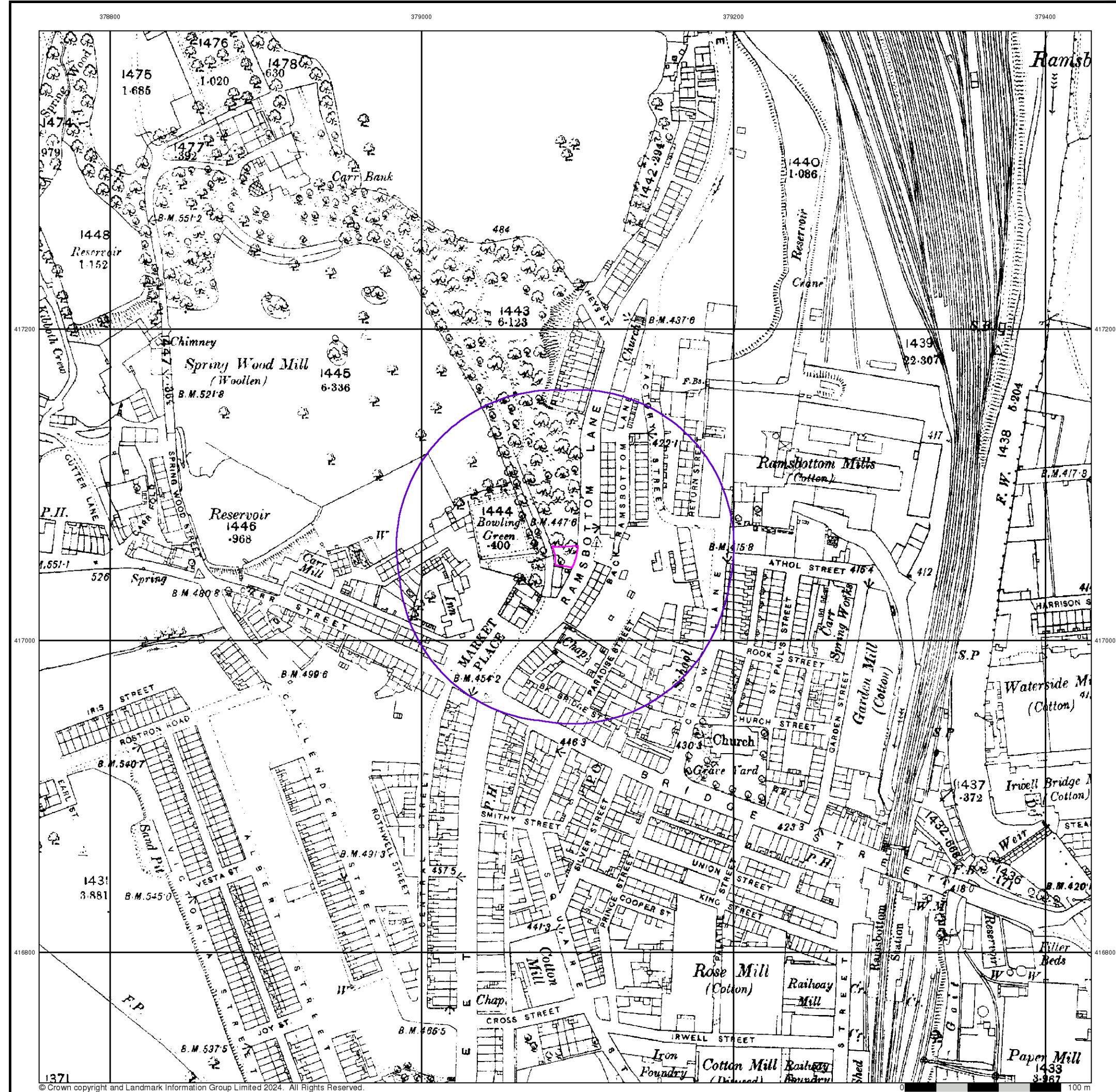
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Search Buffer (m): 100

Site Details

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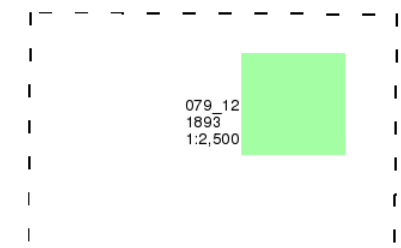
Lancashire And Furness

Published 1893

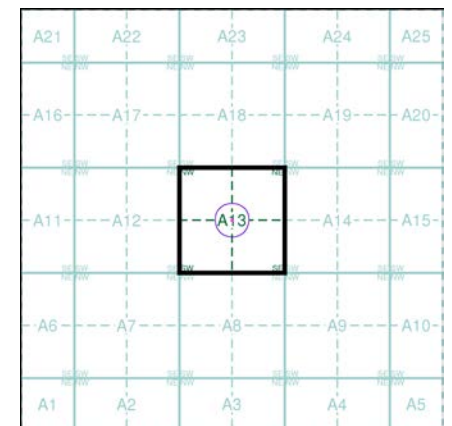
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Map Name(s) and Date(s)



Historical Map - Segment A13

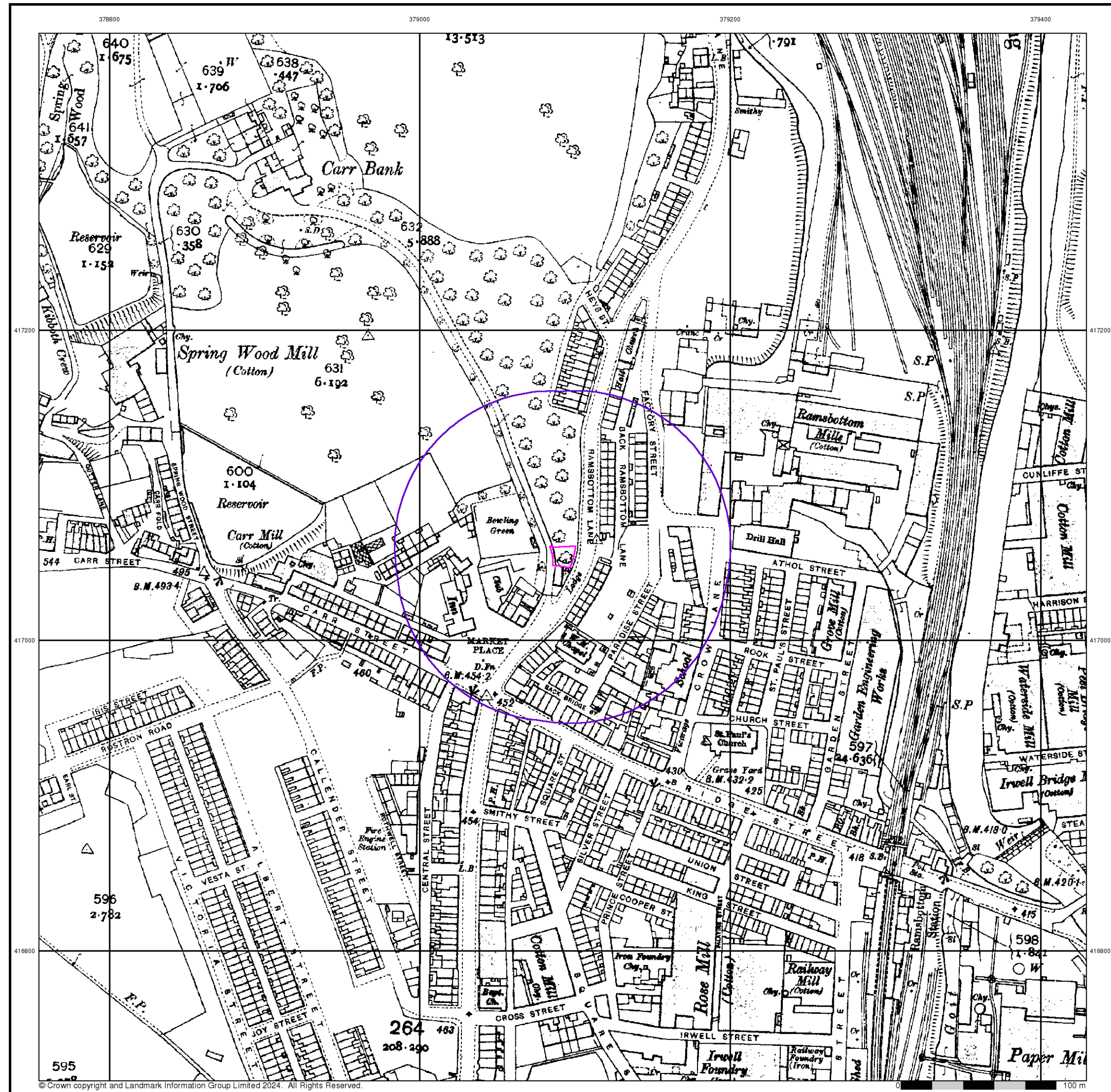


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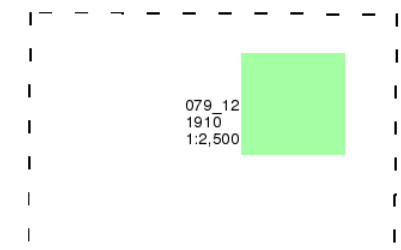
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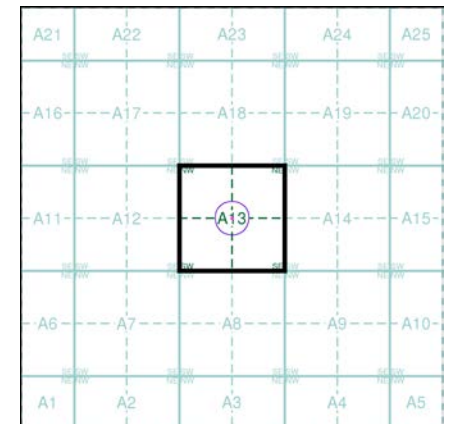
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Map Name(s) and Date(s)



Historical Map - Segment A13



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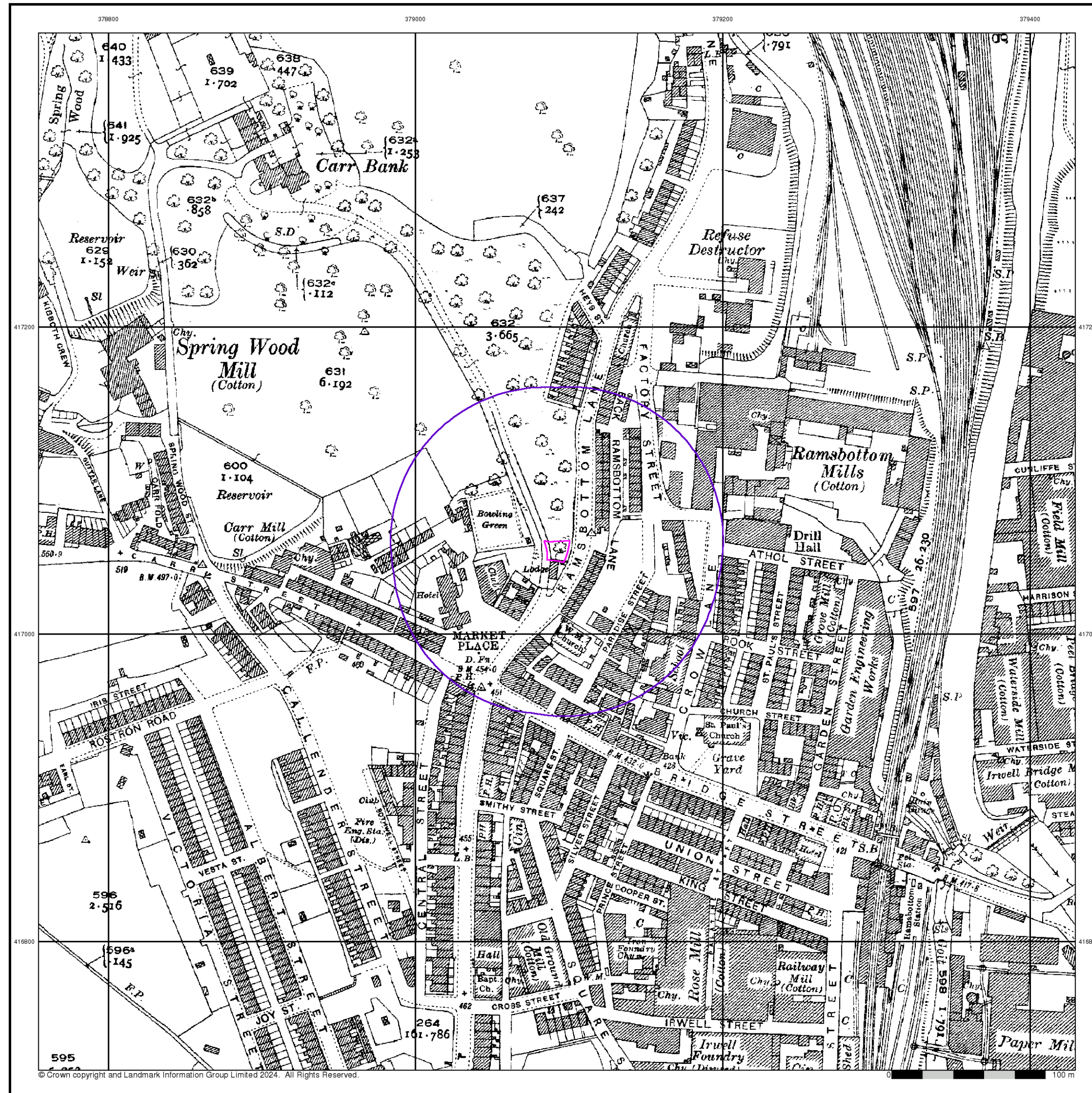
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Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

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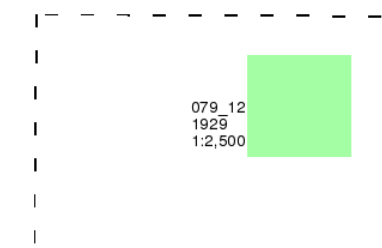
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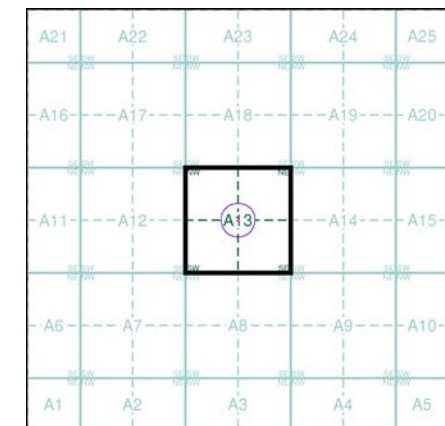
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

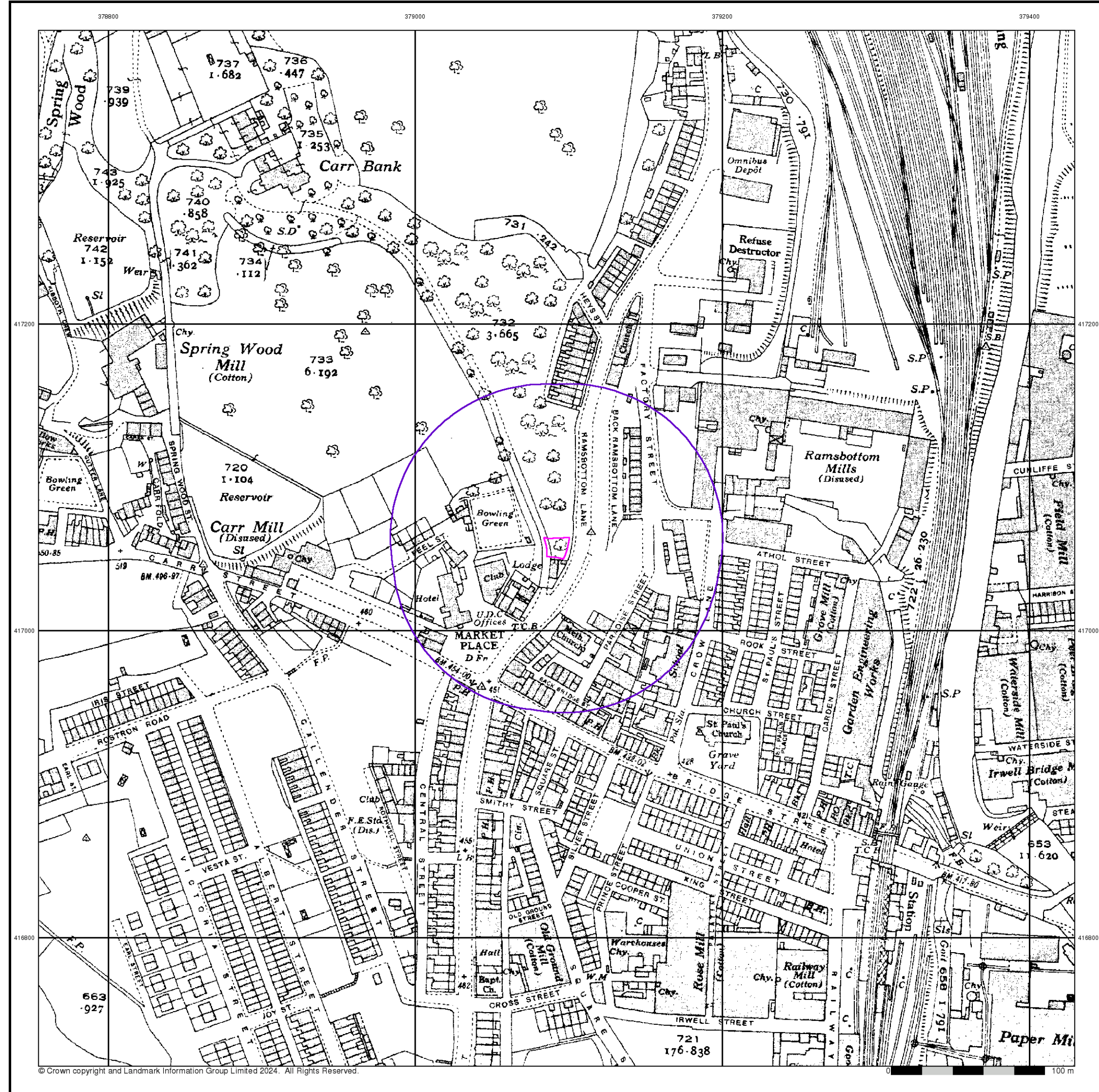
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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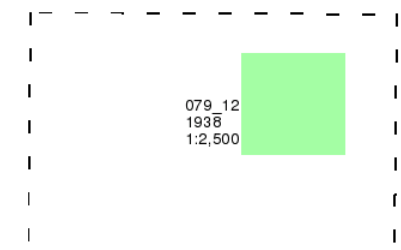
Lancashire And Furness

Published 1938

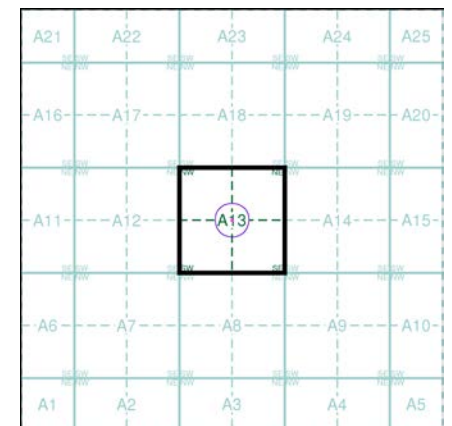
Source map scale - 1:2,500

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

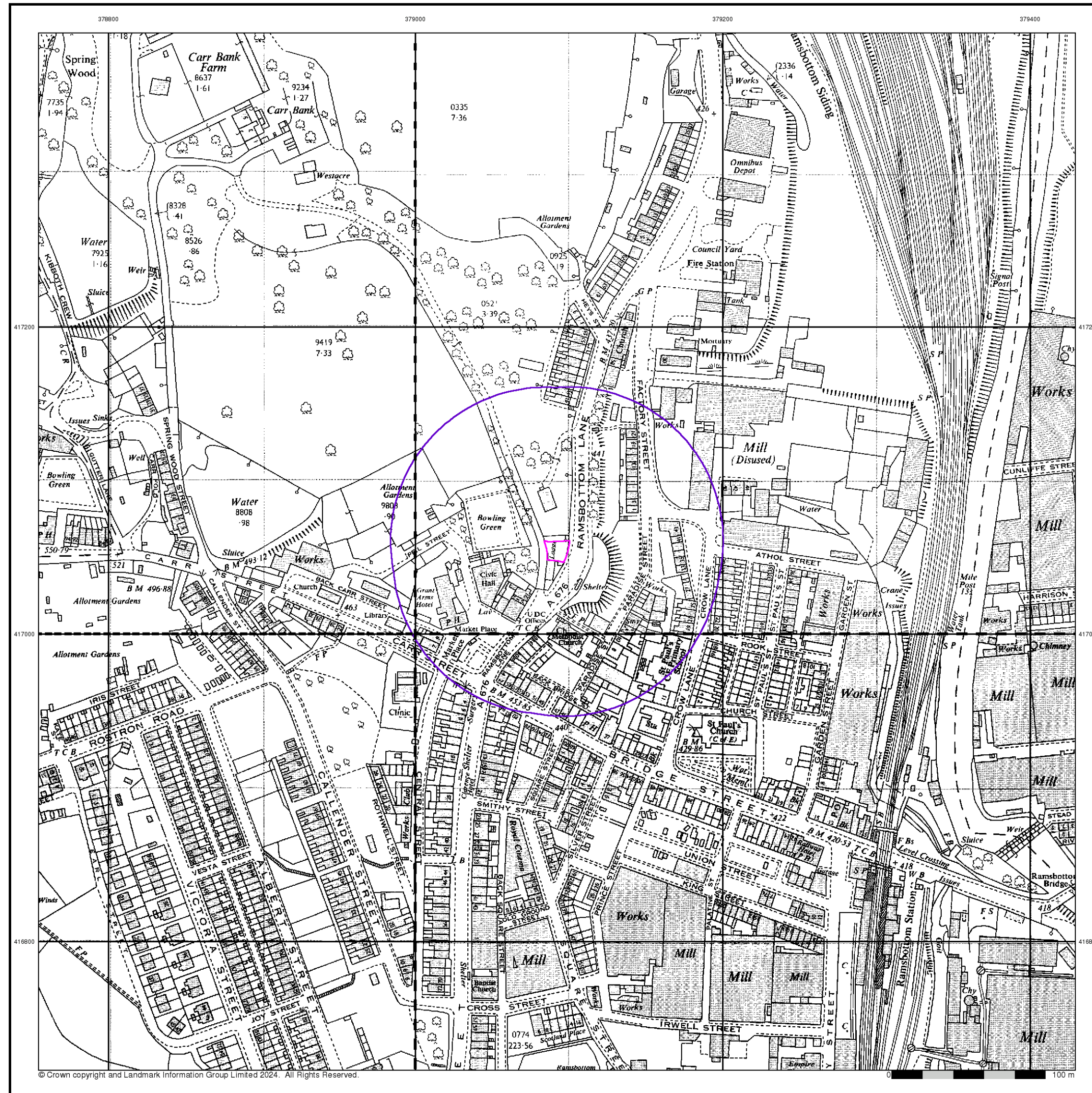
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

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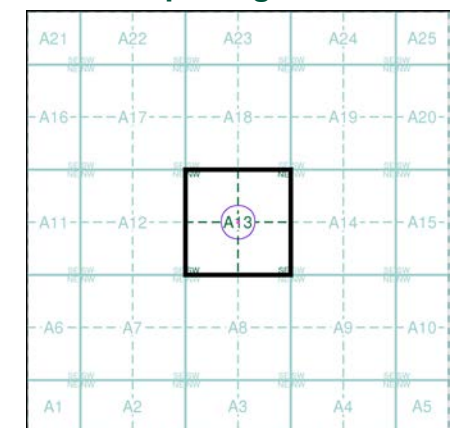
Ordnance Survey Plan Published 1963 - 1964 Source map scale - 1:2,500

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)

SD7817 1963 12,500	SD7917 1963 12,500
SD7816 1964 12,500	SD7916 1964 12,500

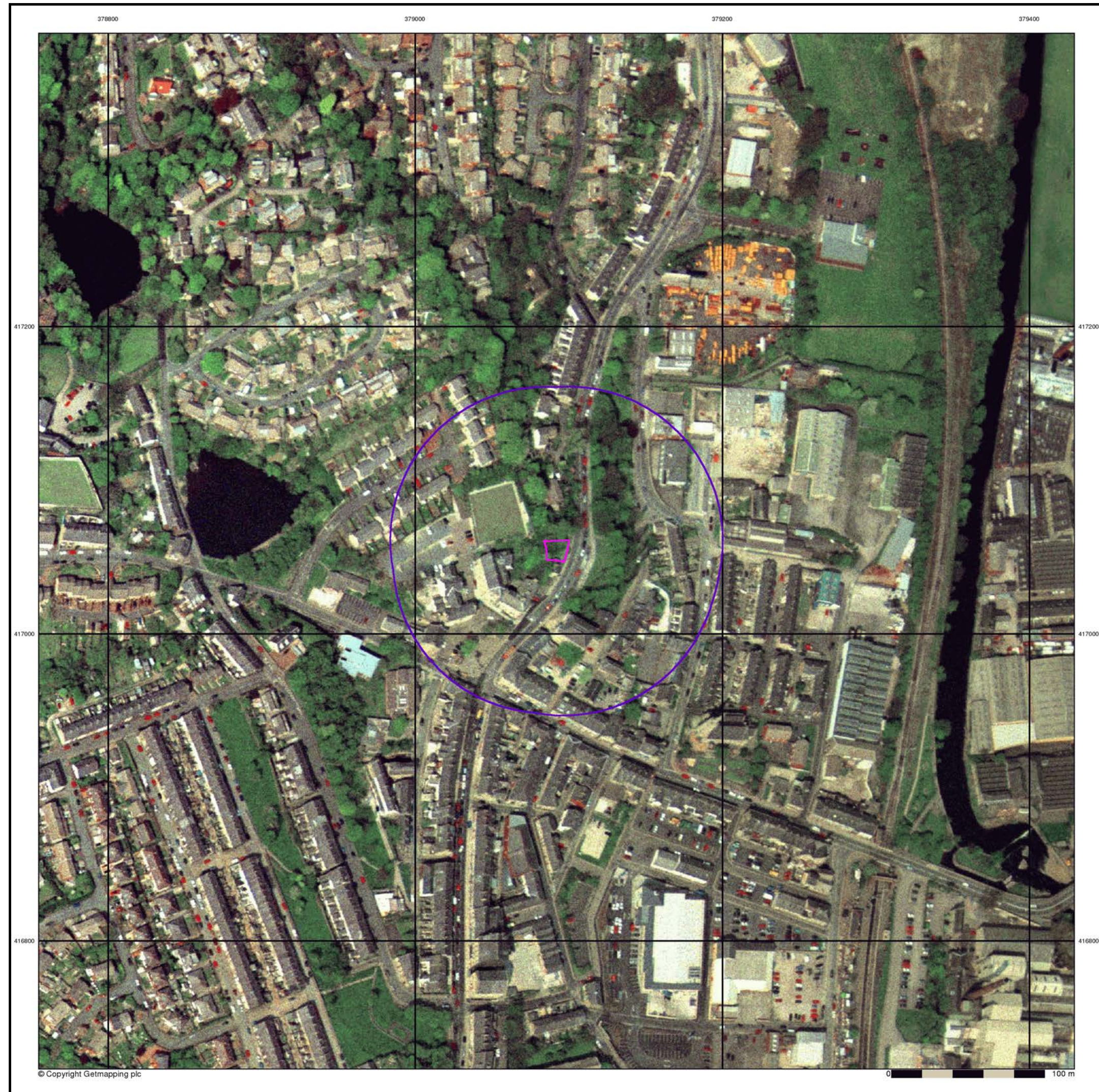
Historical Map - Segment A13



Order Details
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details
Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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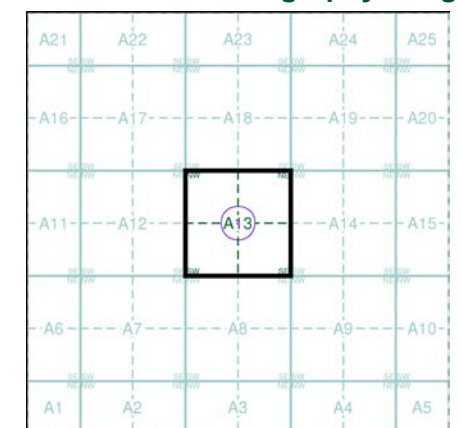


Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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		
	BP, BS 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

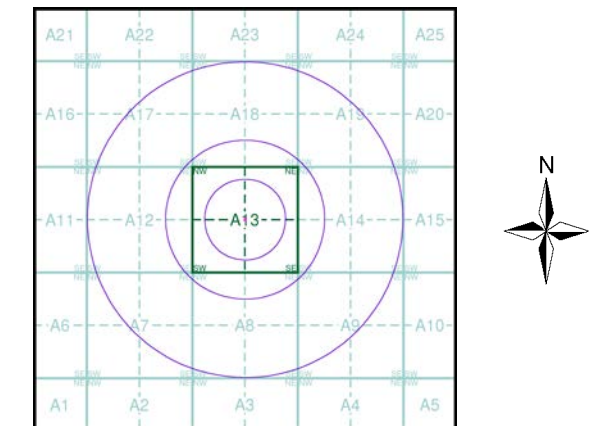
1:10,000 Raster Mapping

	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 - 1851	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1912	5
Lancashire And Furness	1:10,560	1930	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	1967 - 1968	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1982 - 1987	11
Ordnance Survey Plan	1:10,000	1993	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2023	15

Historical Map - Slice A



Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

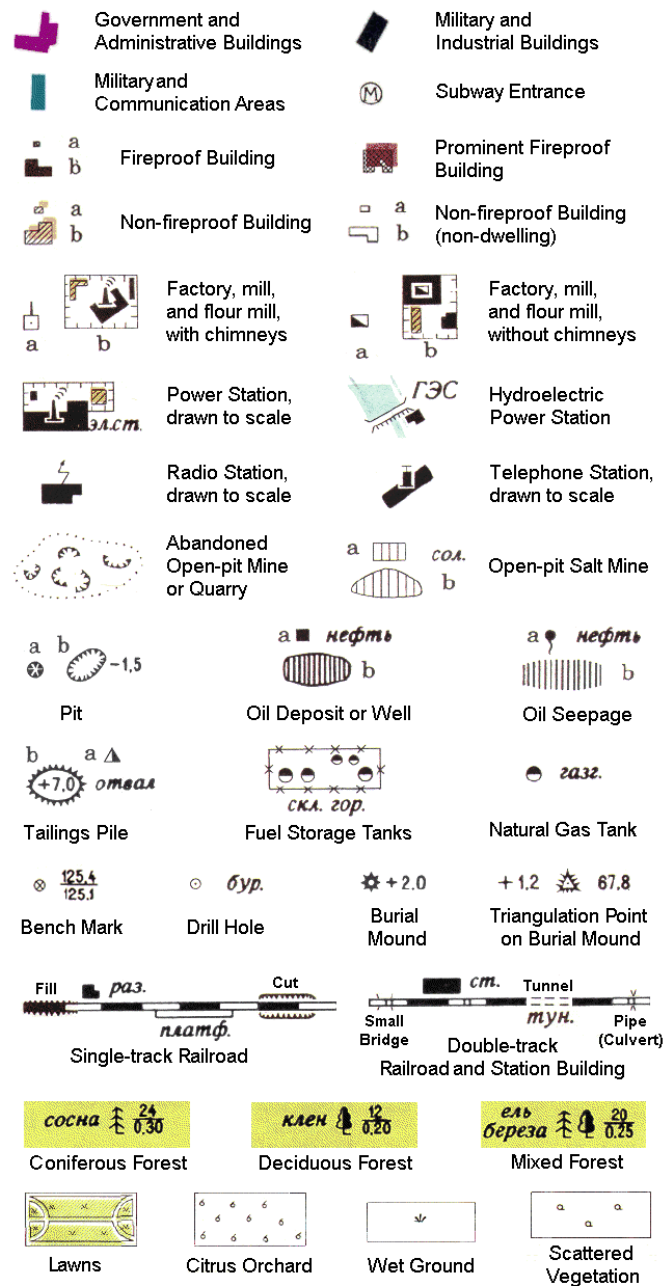
Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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

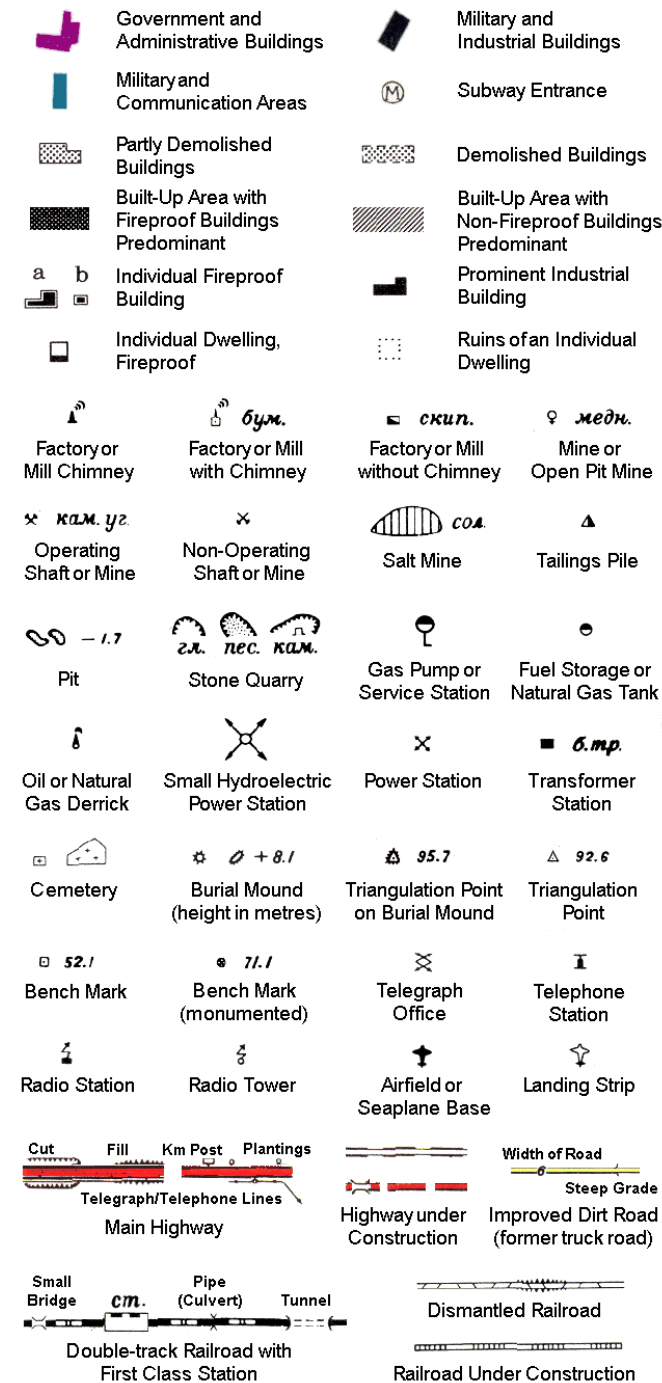
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

SD71_Manchester

No.	Description
115	Factory (Use Unknown)
133	Factory (Use Unknown)

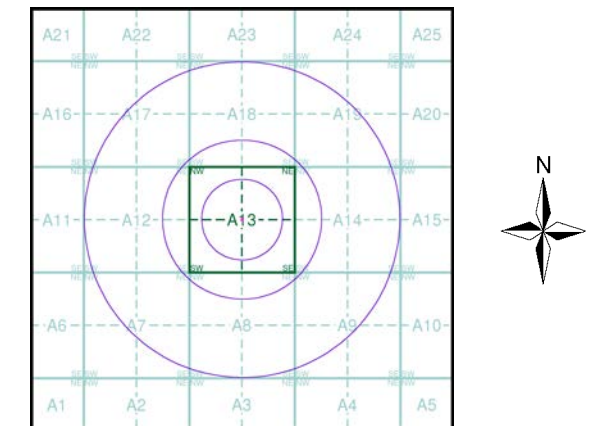
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	3
Lancashire And Furness	1:10,560	1894 - 1895	4
Lancashire And Furness	1:10,560	1912	5
Lancashire And Furness	1:10,560	1930	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	1967 - 1968	9
Manchester	1:25,000	1975	10
Ordnance Survey Plan	1:10,000	1982 - 1987	11
Ordnance Survey Plan	1:10,000	1993	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2023	15

Russian Map - Slice A



Order Details

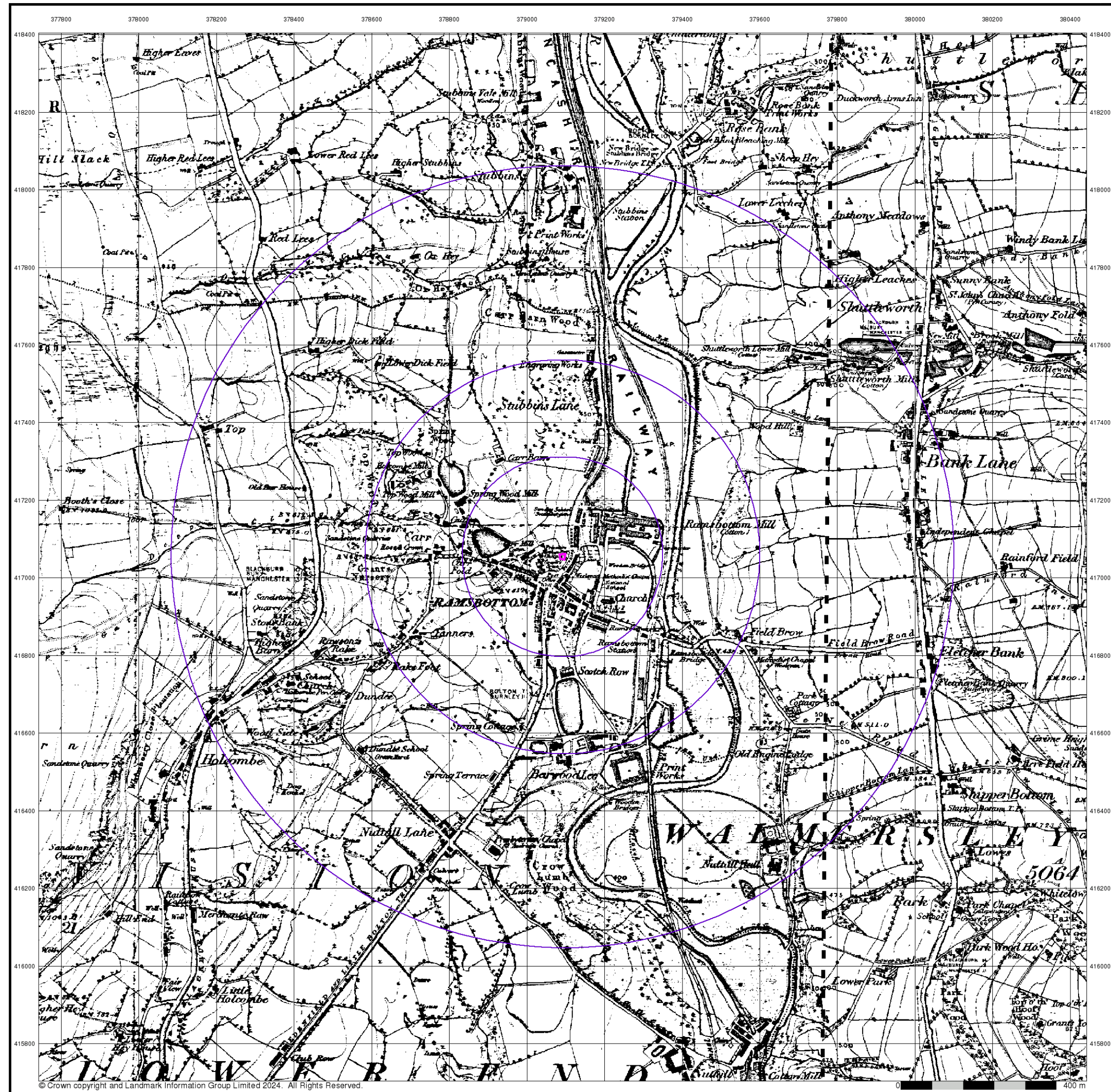
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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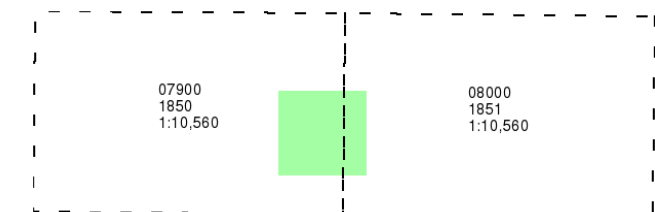
Lancashire And Furness

Published 1850 - 1851

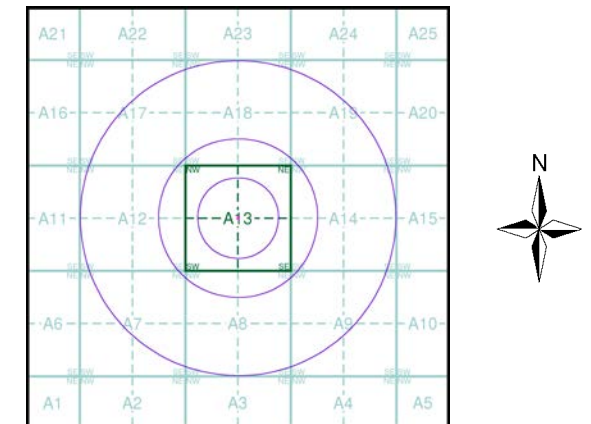
Source map scale - 1:10,560

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

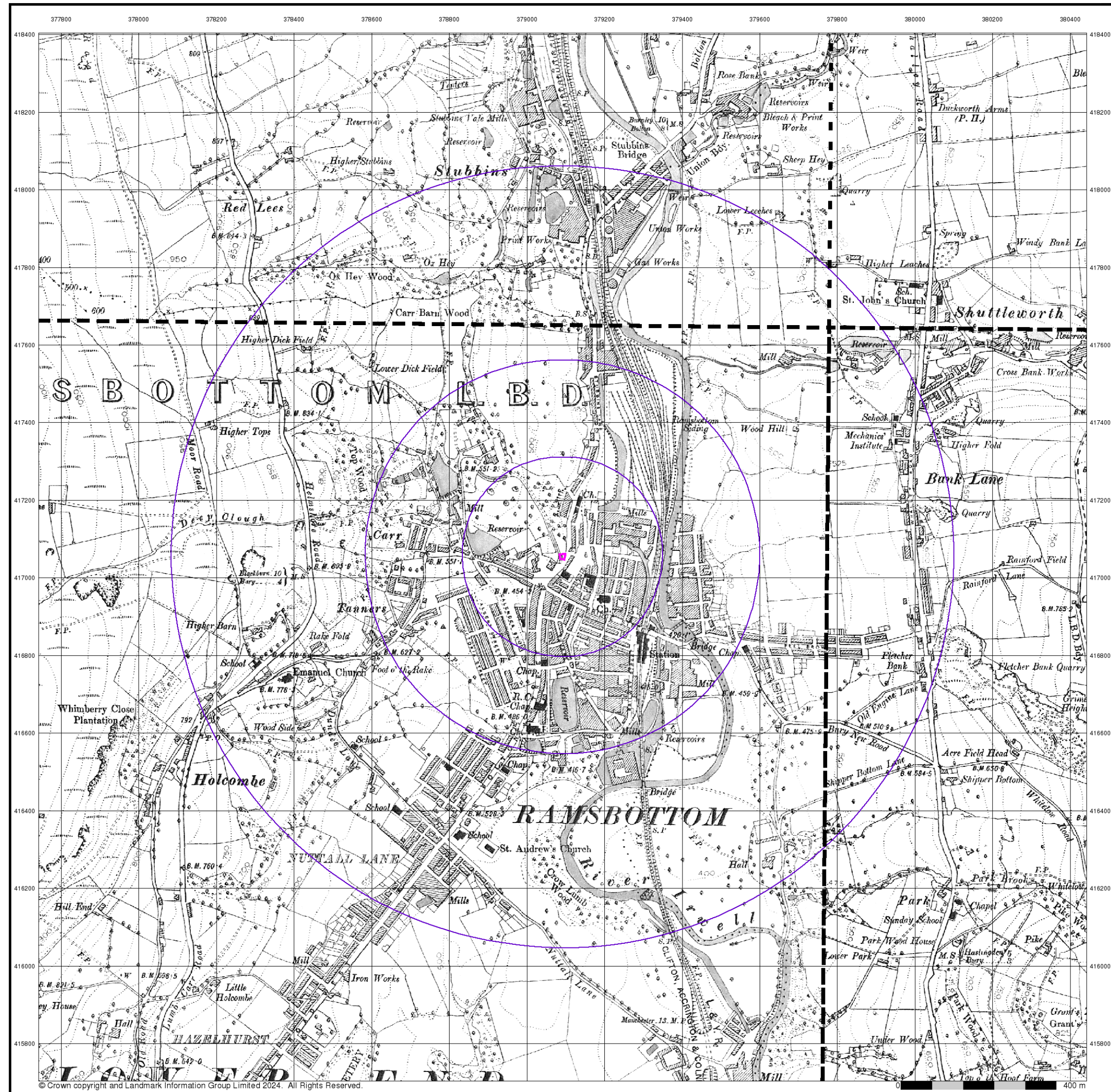


Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY



Lancashire And Furness

Published 1894 - 1895

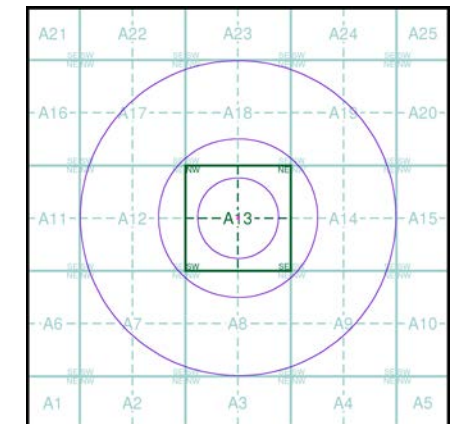
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

079NE 1894 1:10,560	080NW 1895 1:10,560
079SE 1894 1:10,560	080SW 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY



Lancashire And Furness

Published 1912

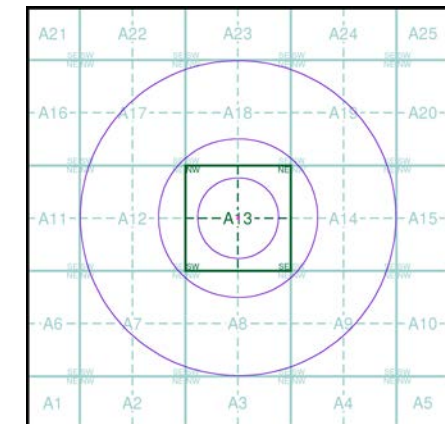
Source map scale - 1:10,560

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)

079NE 1912 1:10,560	080NW 1912 1:10,560
079SE 1912 1:10,560	080SW 1912 1:10,560

Historical Map - Slice A



Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY



Lancashire And Furness

Published 1930

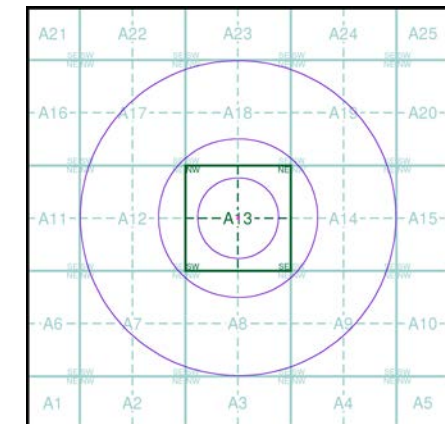
Source map scale - 1:10,560

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)

079NE 1930 1:10,560	080NW 1930 1:10,560
079SE 1930 1:10,560	080SW 1930 1:10,560

Historical Map - Slice A



Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY



Ordnance Survey Plan

Published 1955 - 1956

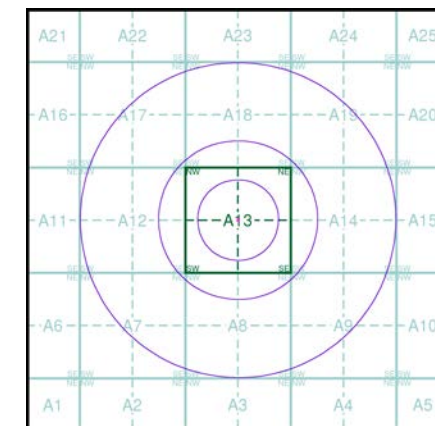
Source map scale - 1:10,000

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	SD81NW 1956 1:10,560
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Historical Map - Slice A

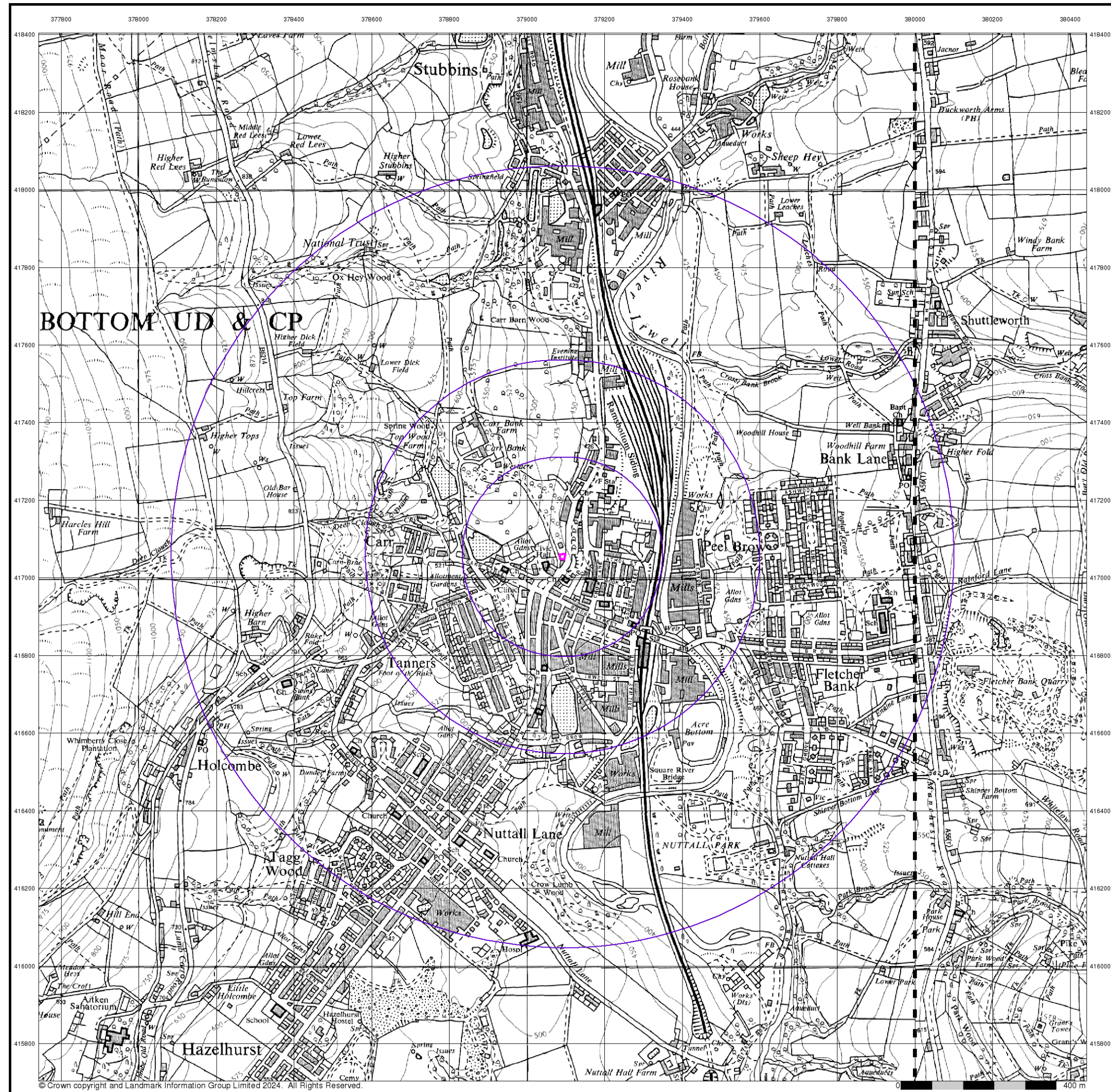


Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY



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Ordnance Survey Plan

Published 1967 - 1968

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD71NE 1968 1:10,560	SD81NW 1967 1:10,560
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Historical Map - Slice A

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

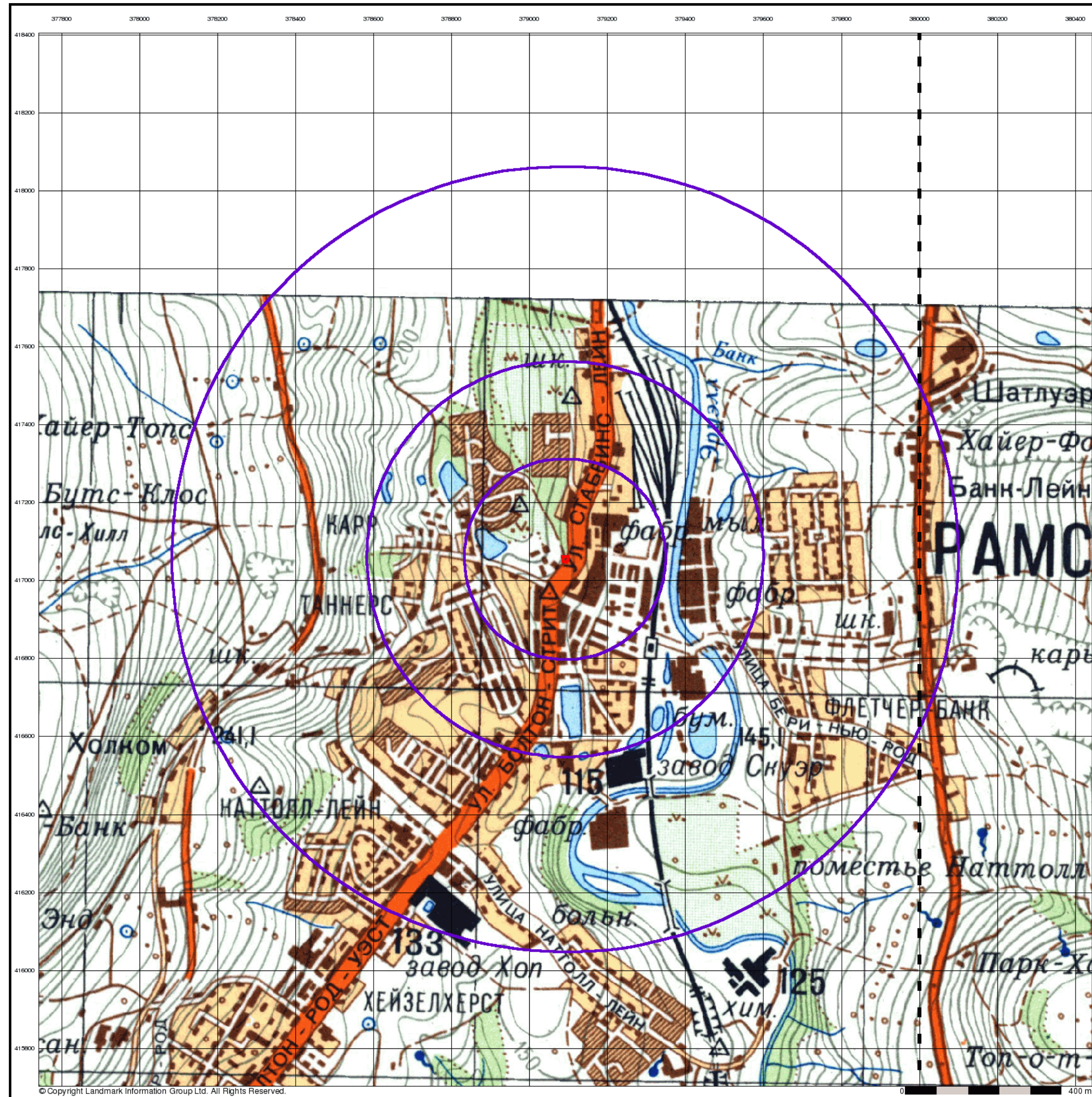
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Manchester

Published 1975

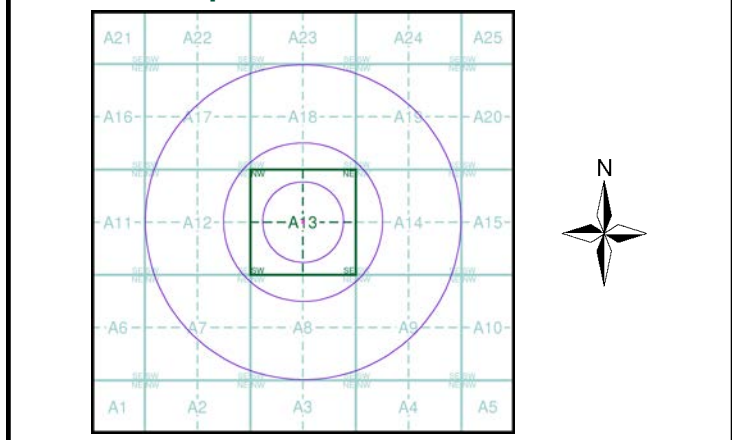
Source map scale - 1:25,000

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)

SD71 1975 1:25,000	SD81 1975 1:25,000
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Russian Map - Slice A



Order Details

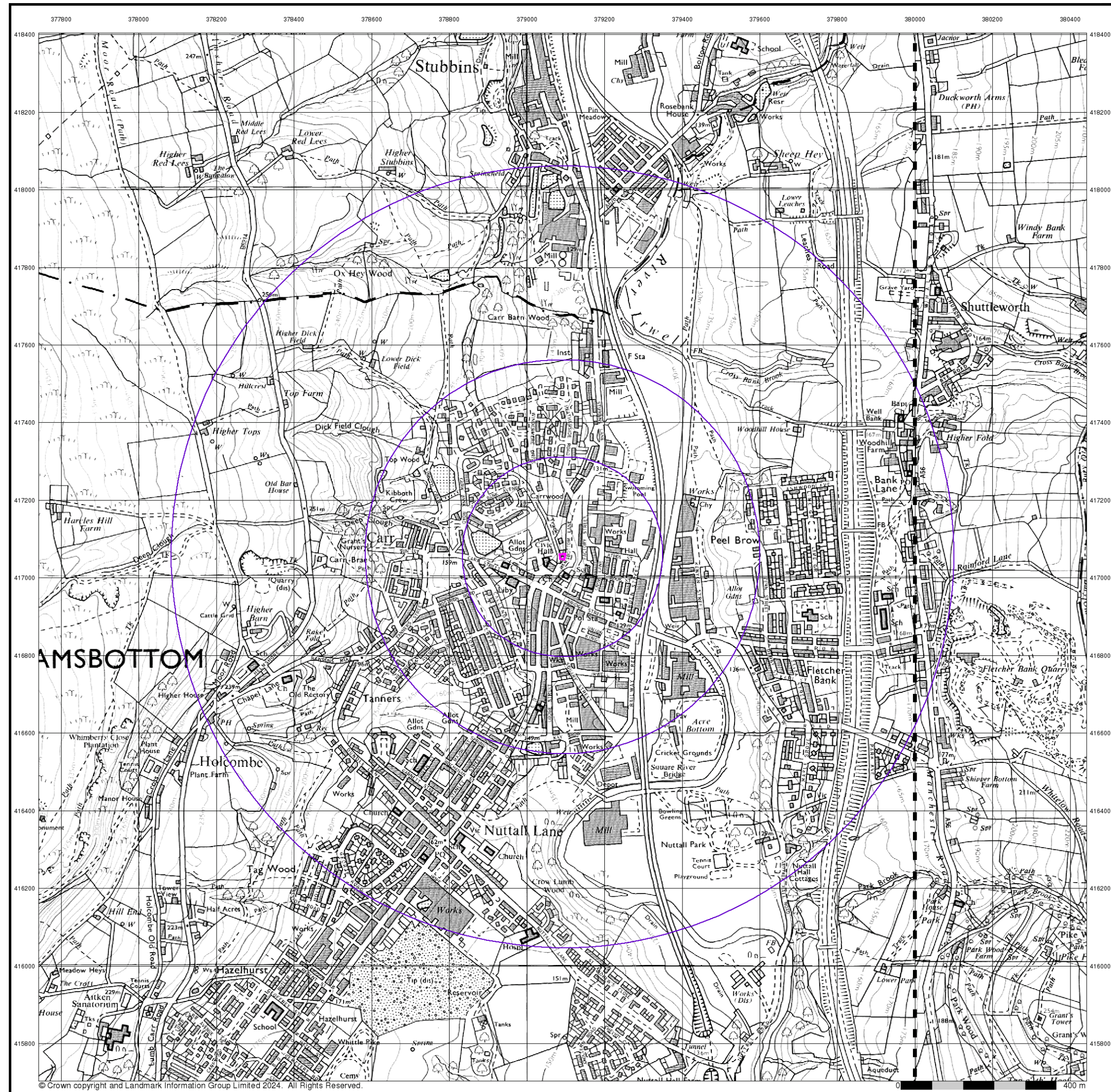
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
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Ordnance Survey Plan

Published 1982 - 1987

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	SD81NW 1987 1:10,000
----------------------------	----------------------------

Historical Map - Slice A

A diagram showing a grid of map slices. The horizontal axis is labeled A1 to A5, and the vertical axis is labeled A1 to A25. A central square is labeled A13. A larger square is labeled A18. A circle is drawn around the center, and a dashed line indicates the boundary of the slice.

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

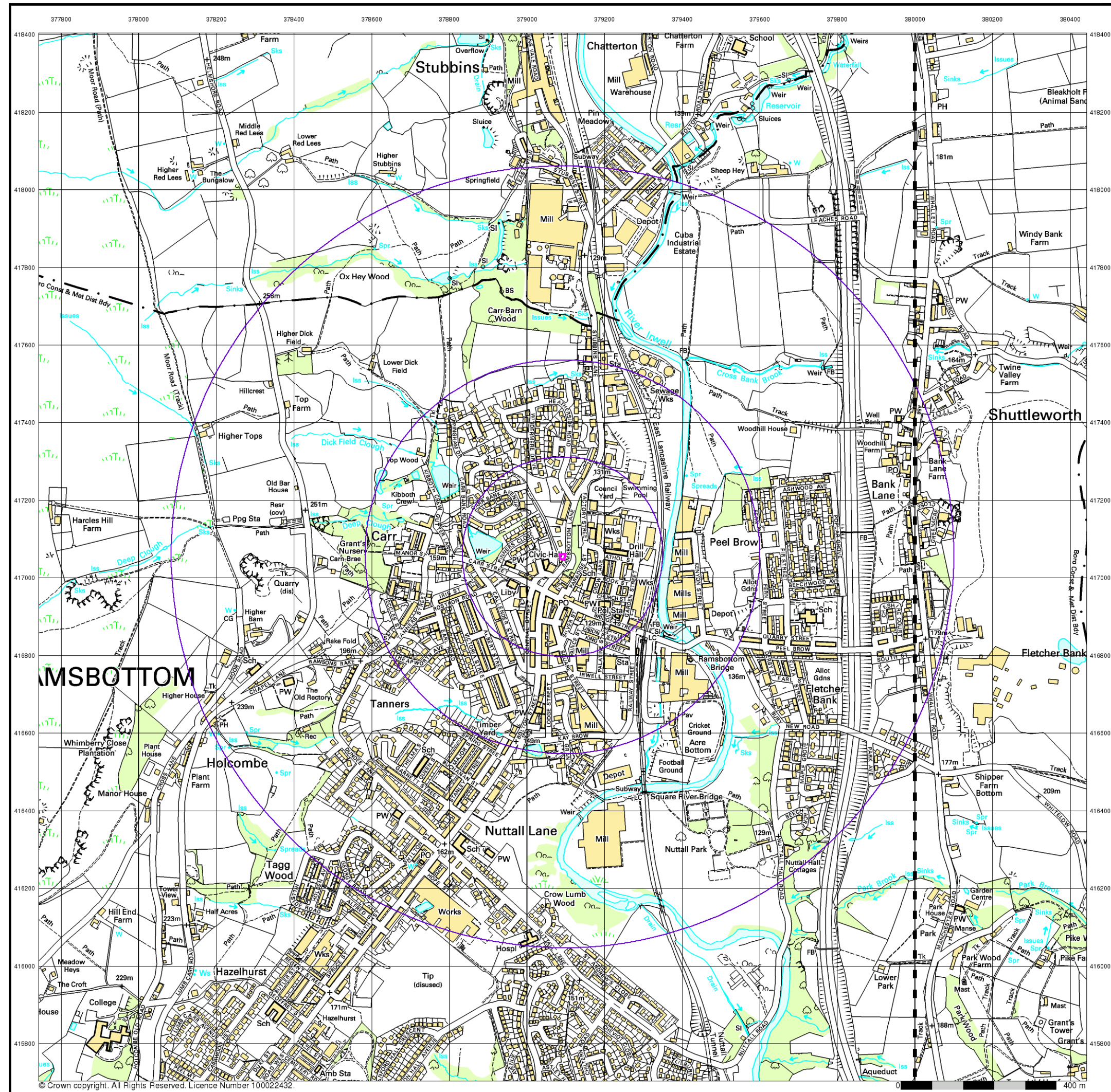
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10k Raster Mapping

Published 1999

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 1999 1:10,000	SD81NW 1999 1:10,000
----------------------------	----------------------------

Historical Map - Slice A

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

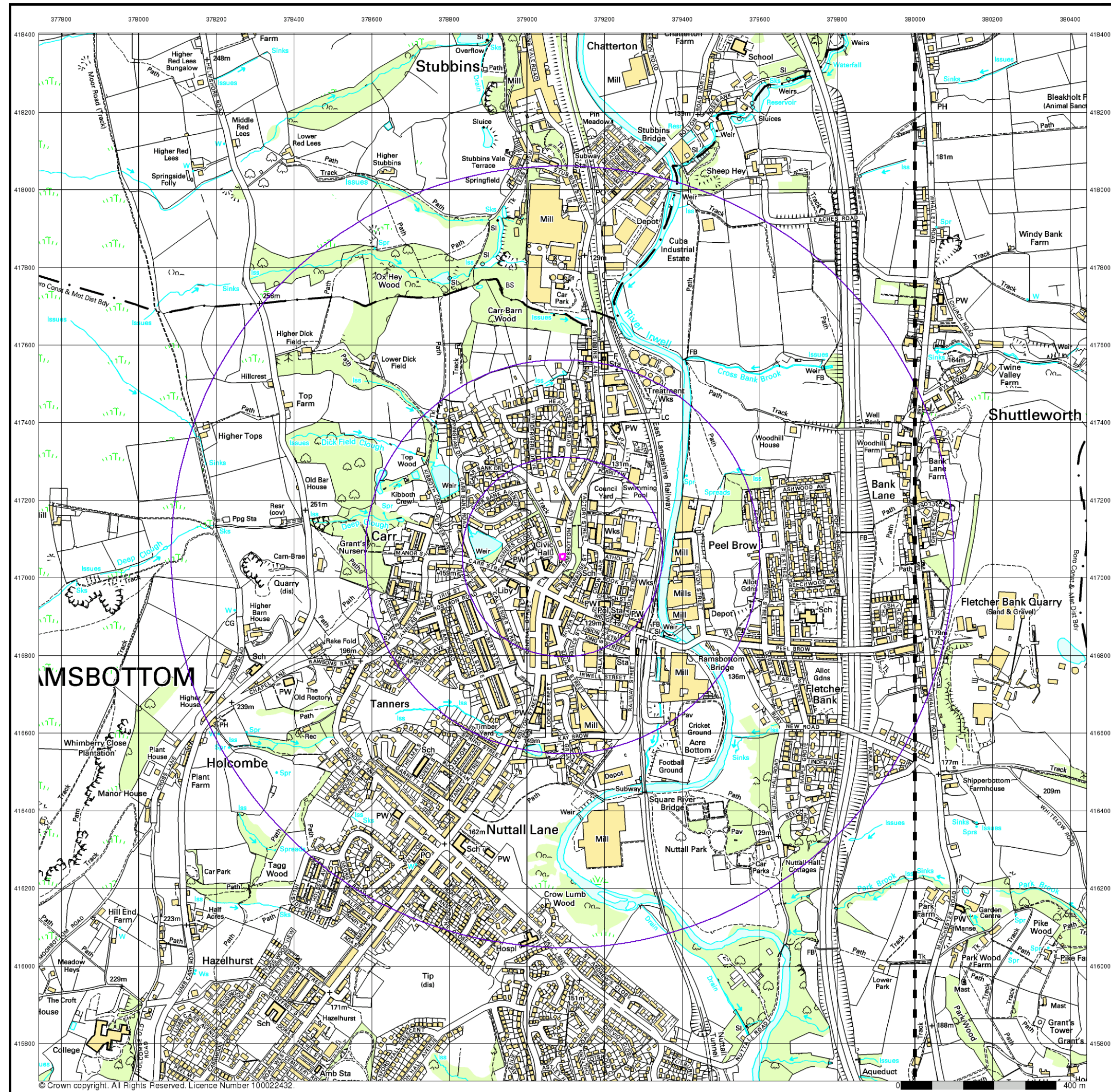
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10k Raster Mapping

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	SD81NW 2006 1:10,000
----------------------------	----------------------------

Historical Map - Slice A

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

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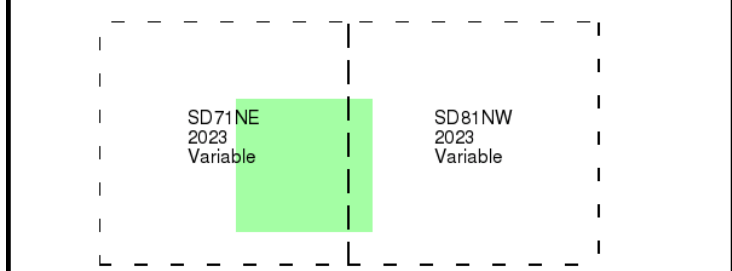
VectorMap Local

Published 2023

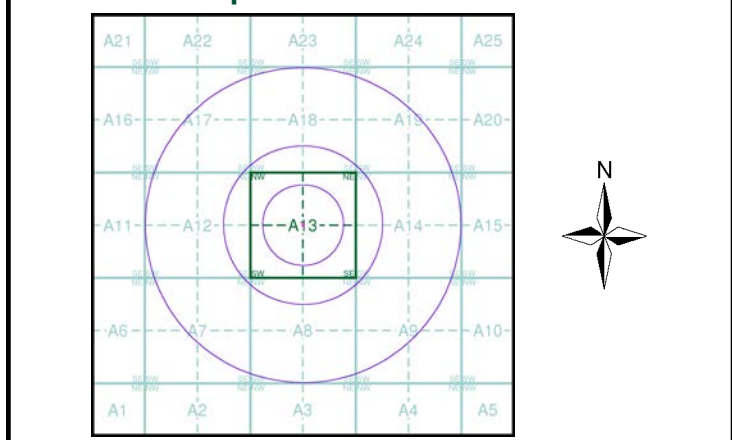
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

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APPENDIX E

British Geological Survey Boreholes



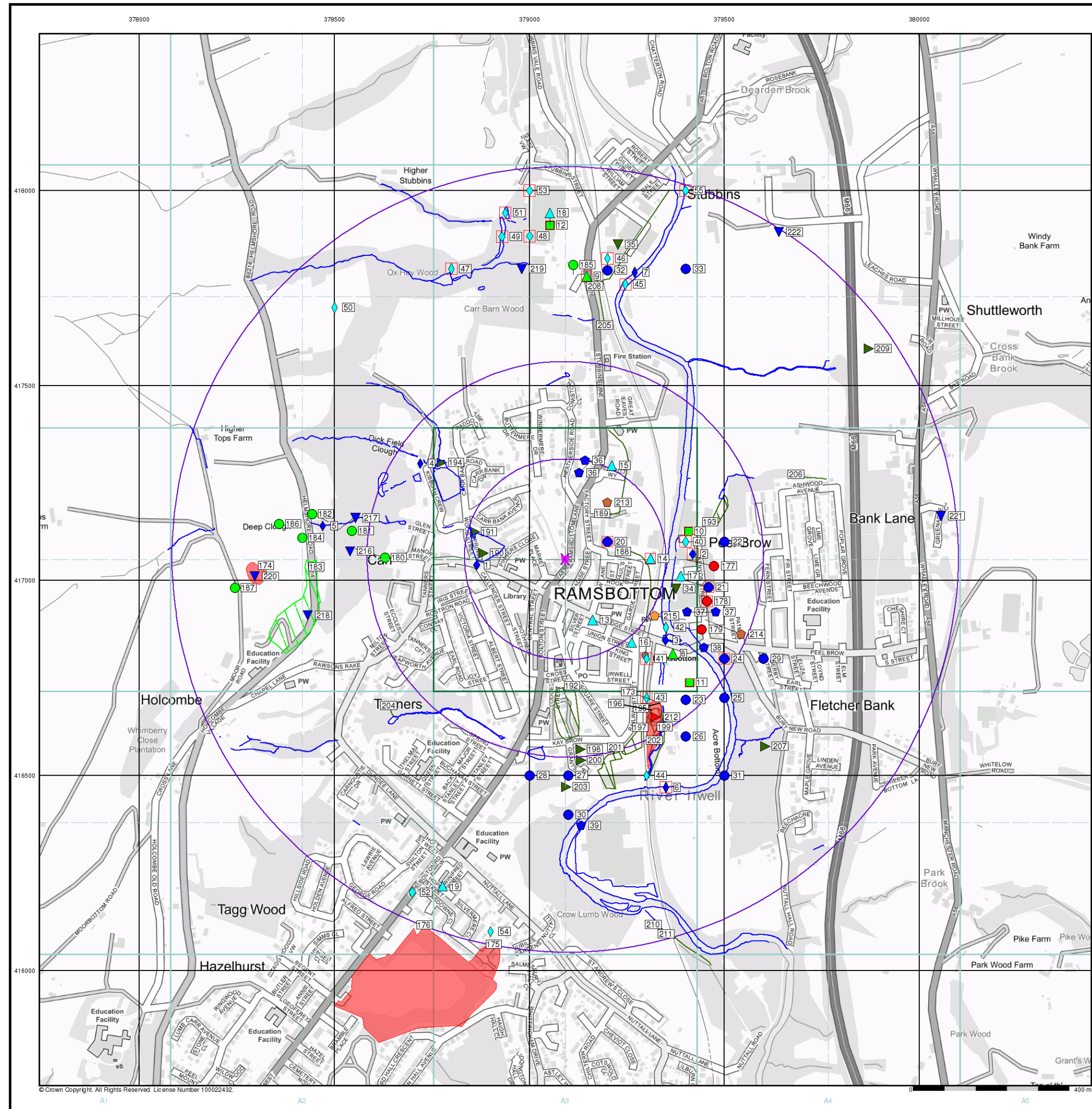
Norwest Holst Soil Engineering Ltd.						Borehole No. 8	
Contract No. F5563		BOREHOLE LOG		Sheet 1 of 1			
Location Stubbins Lane, Bury				Chainage 126.700			
Client Metropolitan Borough of Bury				Ground Level 126.700 m.A.O.D.			
Method of Boring Percussion		SD71NE124		Date 19/5/83			
Diameter of Borehole 200 mm							
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
MADE GROUND: 'Tarmac' cobbles & concrete		0.20	126.50				
MADE GROUND: Loose sand, clay and ash.		1.60	125.10		1.20	9	
Soft mottled brown and grey very silty slightly sandy CLAY with occasional gravel.		2.70	124.00	200mm to 4.00m	2.20		
Firm becoming stiff brown very silty CLAY with occasional gravel and thin fine brown sand lenses.		4.00	122.70		3.50		

Type of Sample	Remarks (Observations of Ground Water etc.)
☒ S.P.T. ☐ Undisturbed ☒ C.P.T. ☒ Vane ☐ Jar ☐ Water ☐ Bulk ☐ Piezometer	Borehole dry during boring. Inspection pit dug to 1.20 m.

Water levels may be subject to seasonal or tidal variations and should not be taken as constant

APPENDIX F

Envirocheck Report



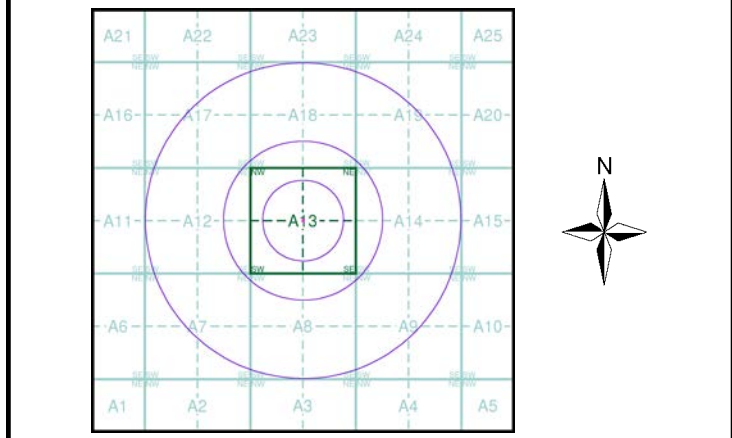
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHMS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**

Site Sensitivity Map - Slice A



Order Details

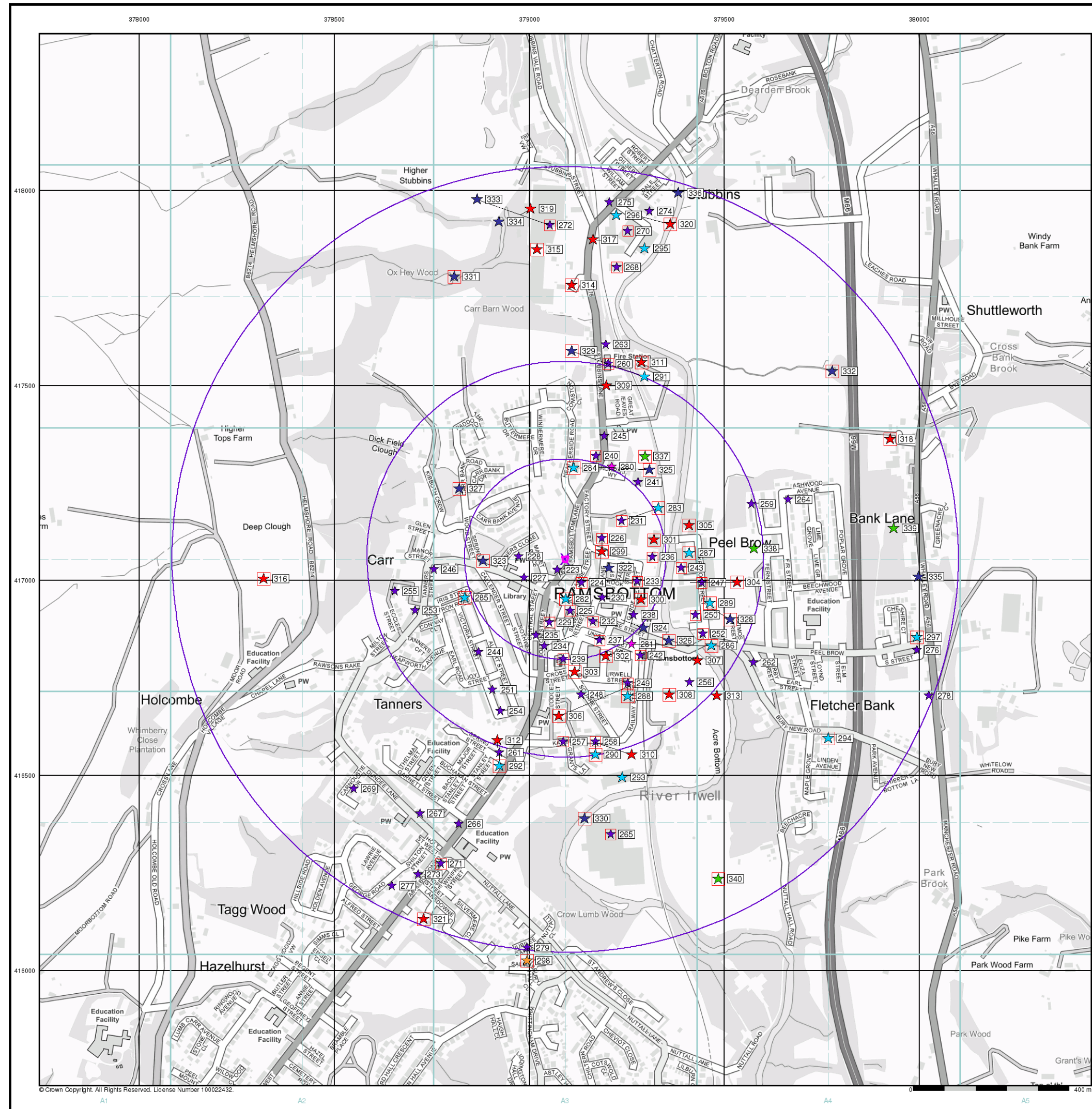
Order Number: 339192756_1_1
 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

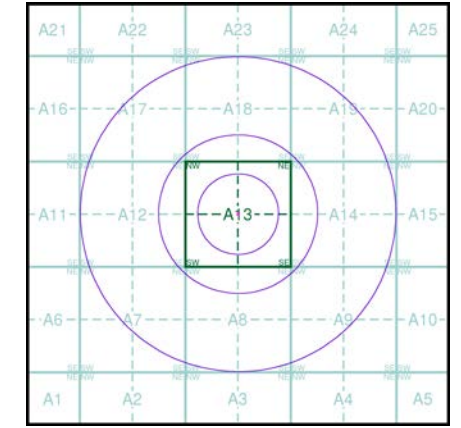
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A

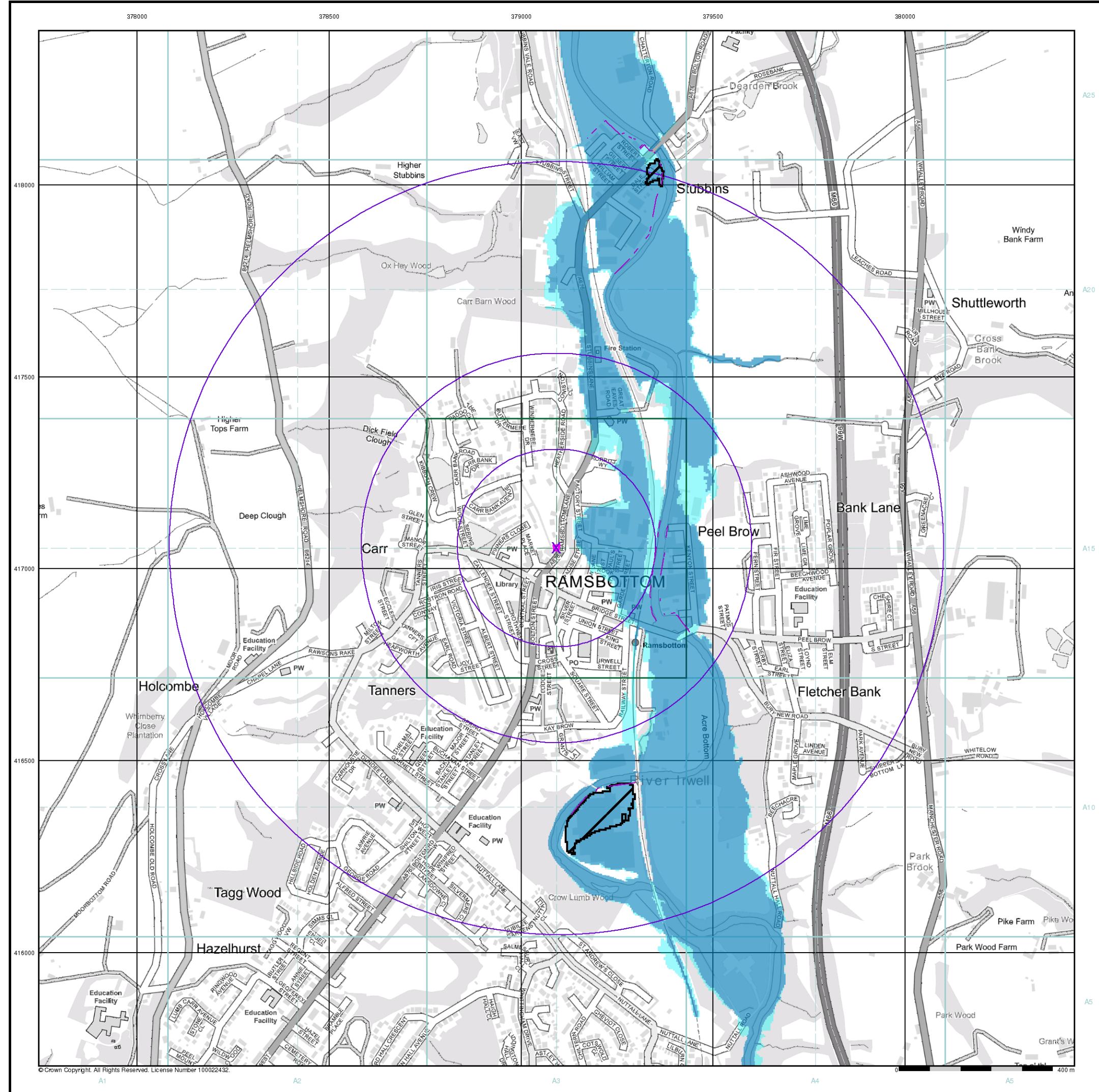


Order Details

Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

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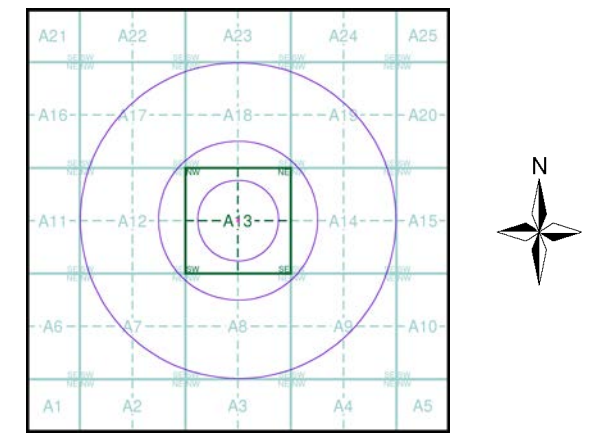
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

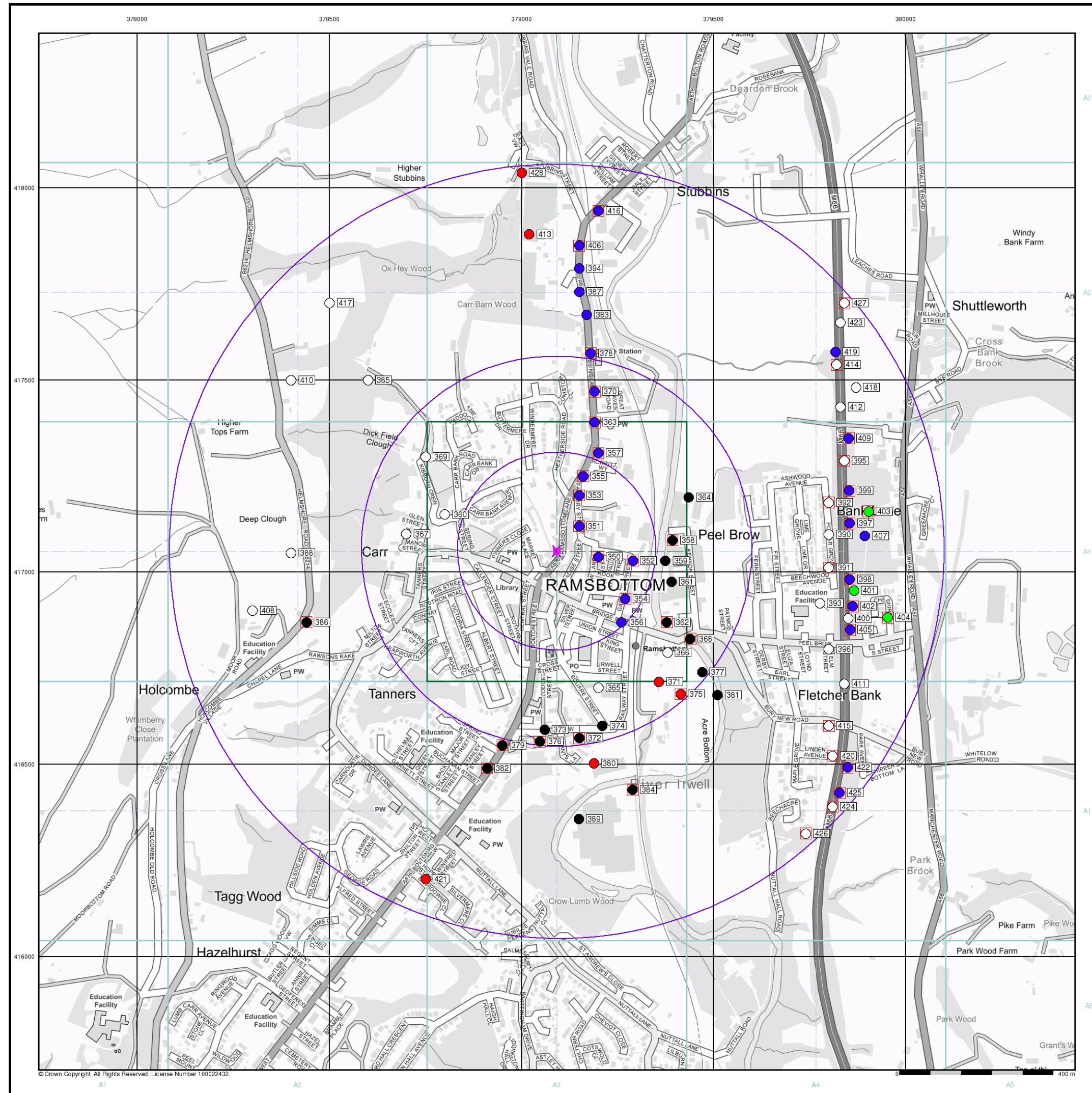


Order Details

Order Number: 339192756_1_1
 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

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General

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

Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

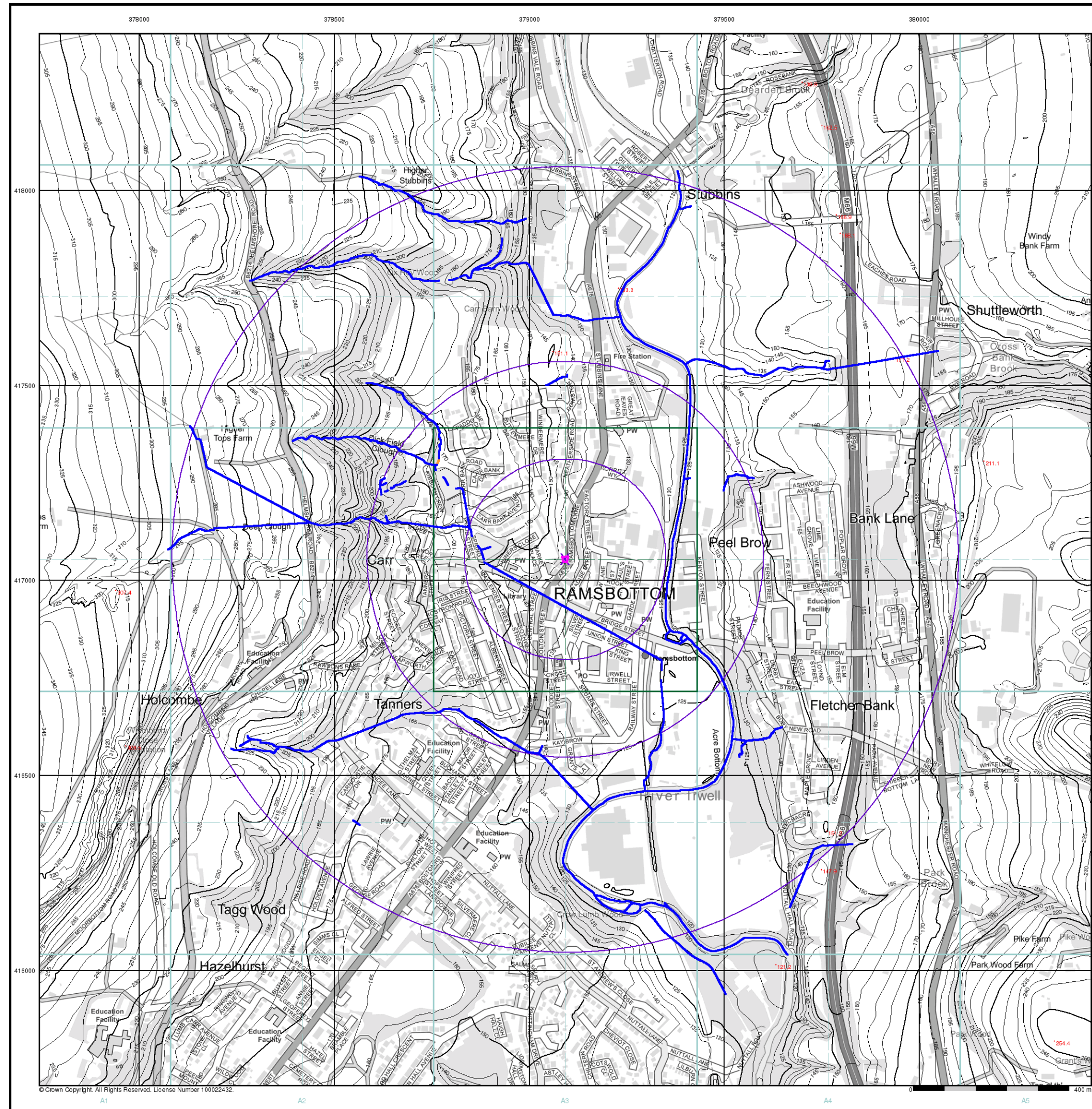
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- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

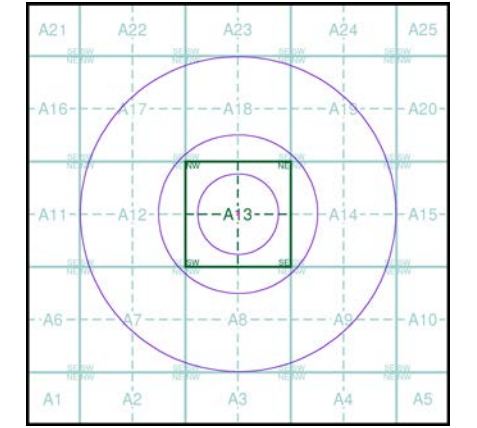
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

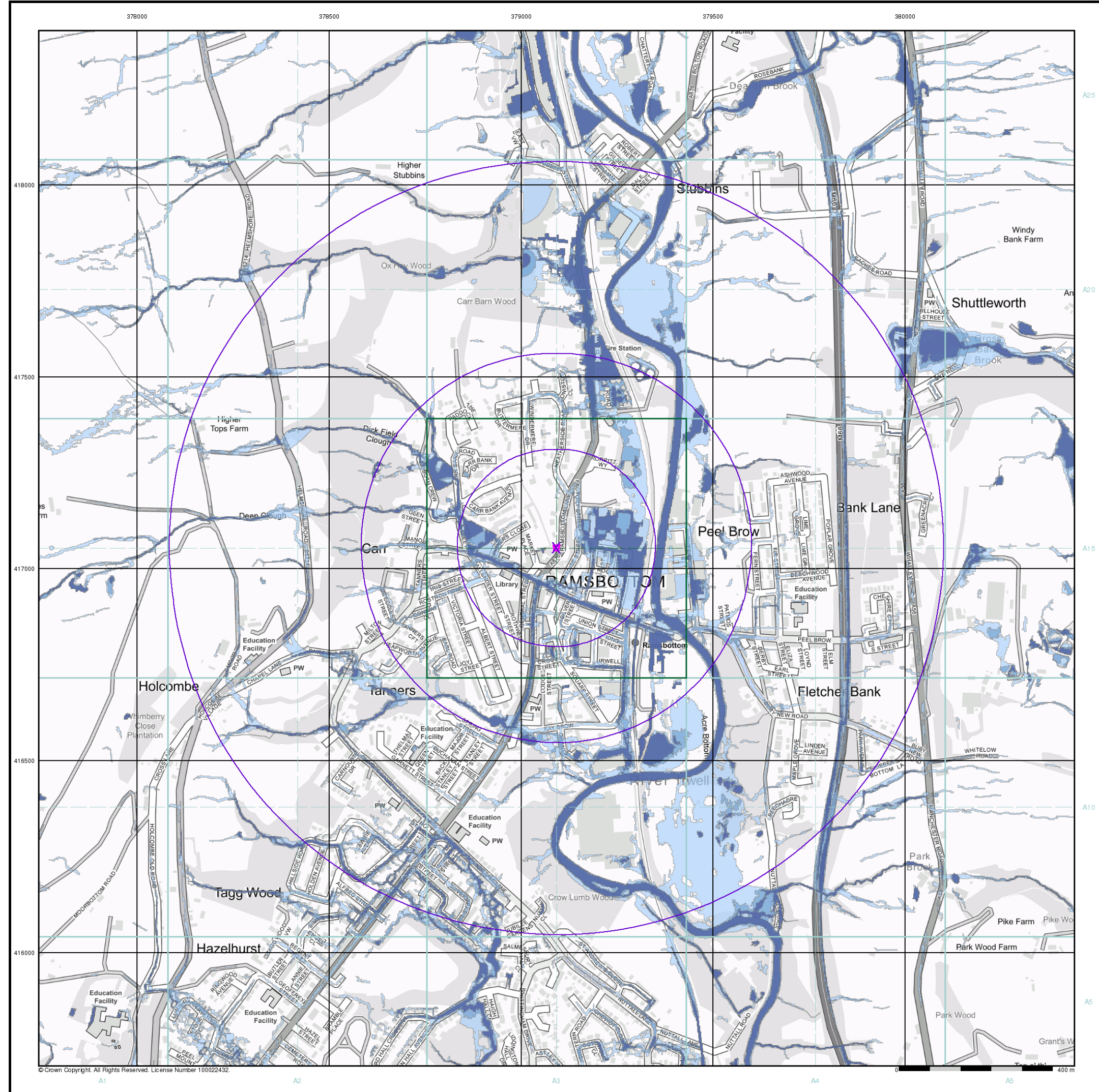
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Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

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General

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

Risk of Flooding from Surface Water

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

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EANRW Suitability Map - Slice A

Order Details

Order Number:	339192756_1_1
Customer Ref:	30359
National Grid Reference:	379090, 417050
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	1000

Site Details

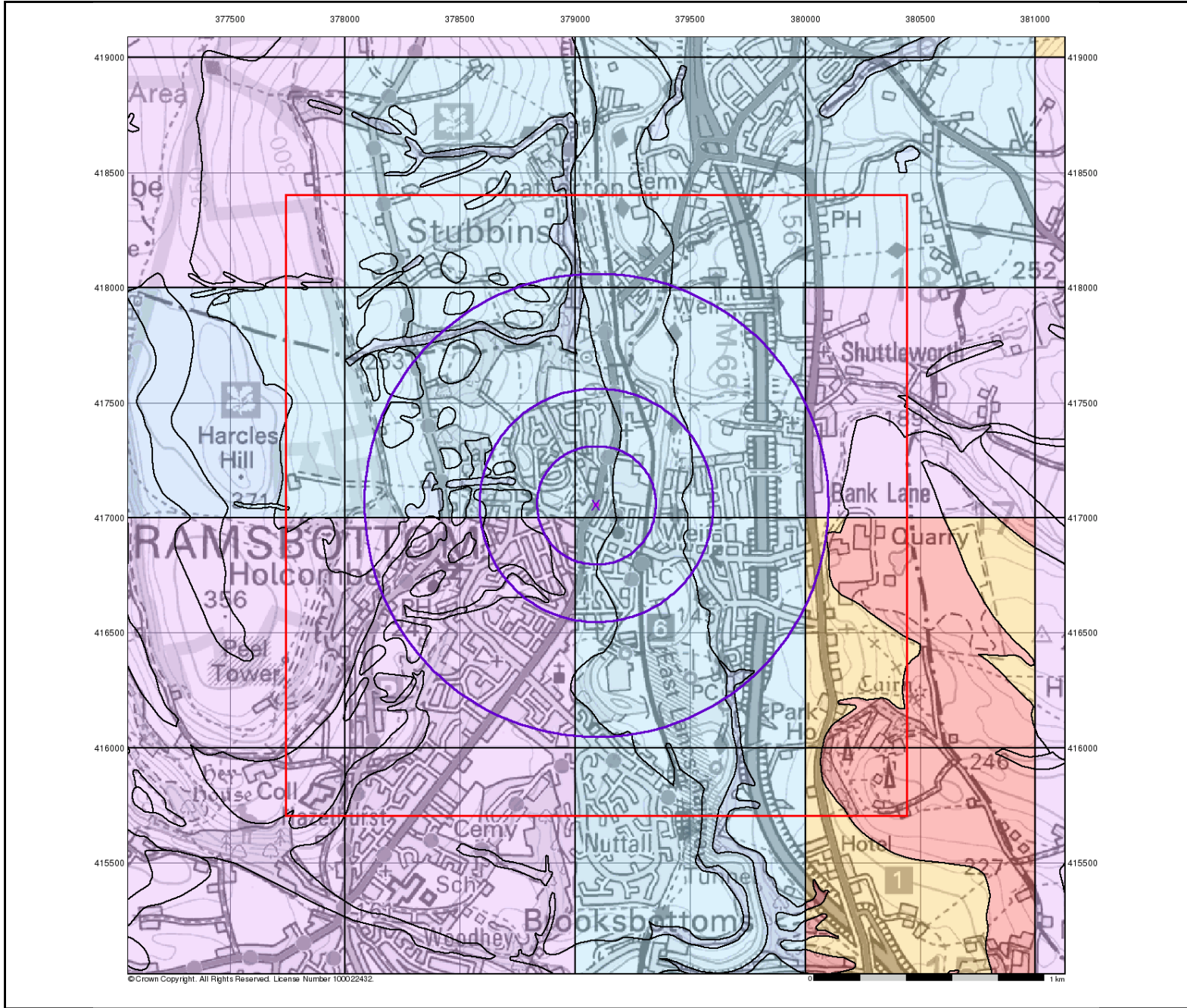
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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

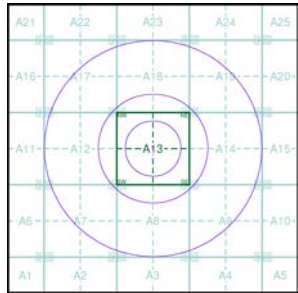
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

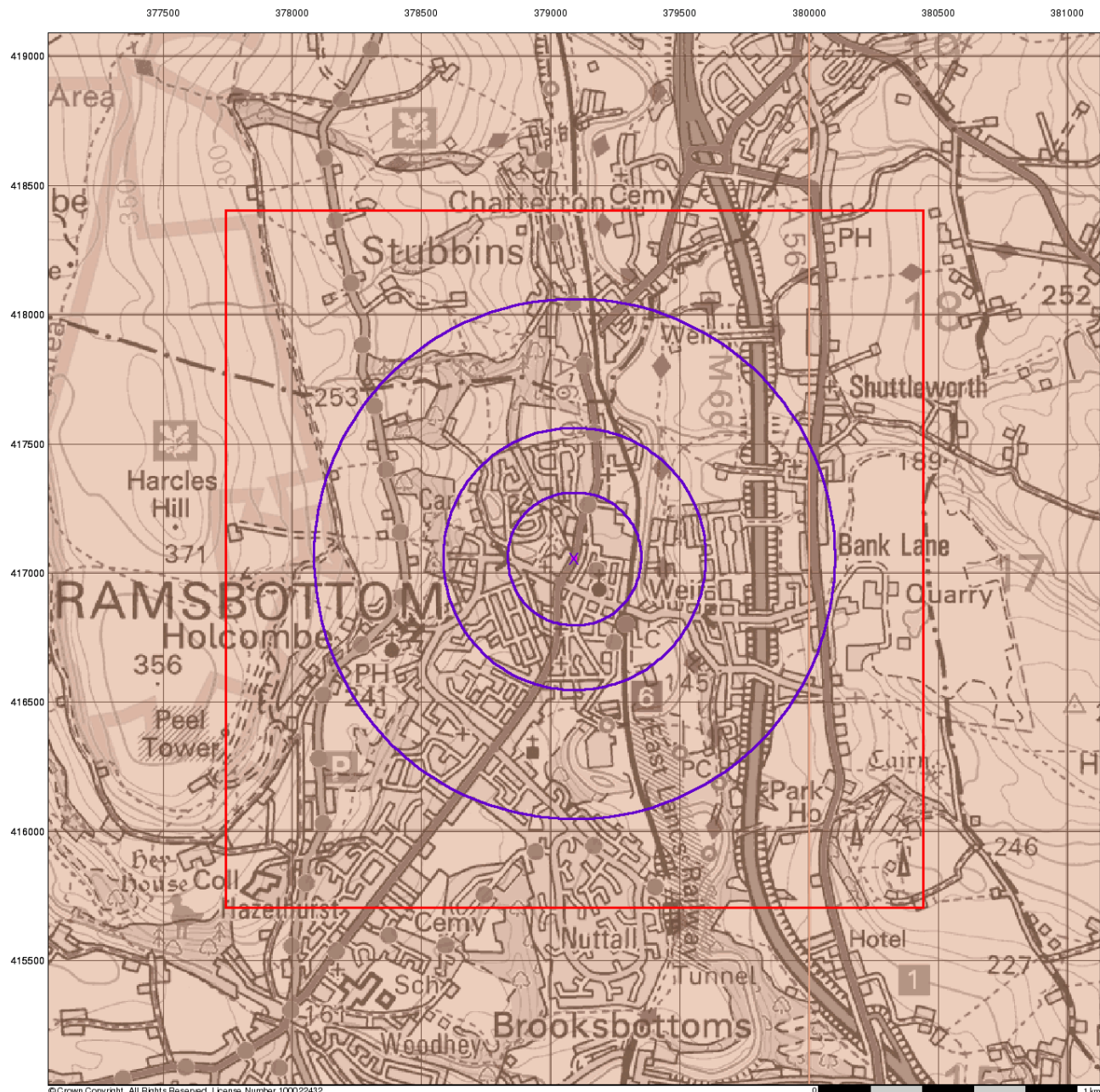
Order Number: 339192756_1_1
Customer Ref: 30359
National Grid Reference: 379090, 417050
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

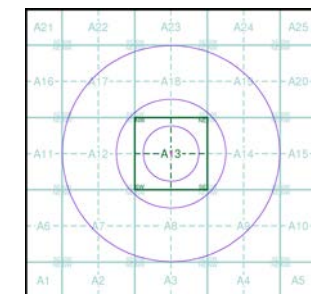
- X Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice □ Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

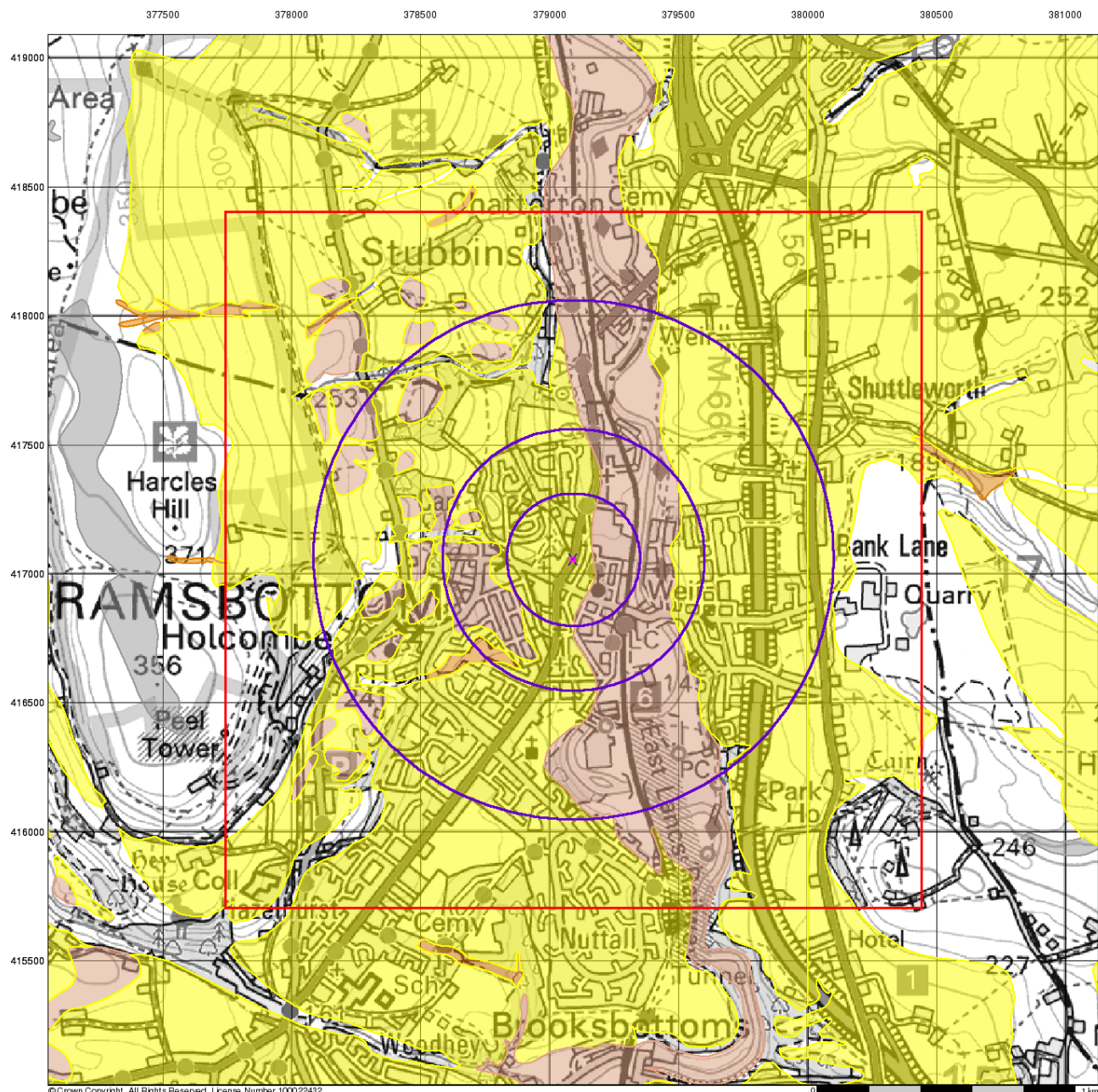


Order Details

Order Number: 339192756_1_1
 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

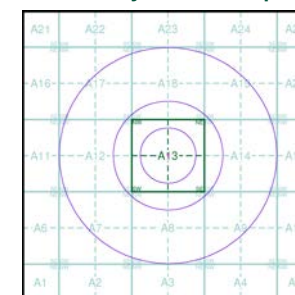
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

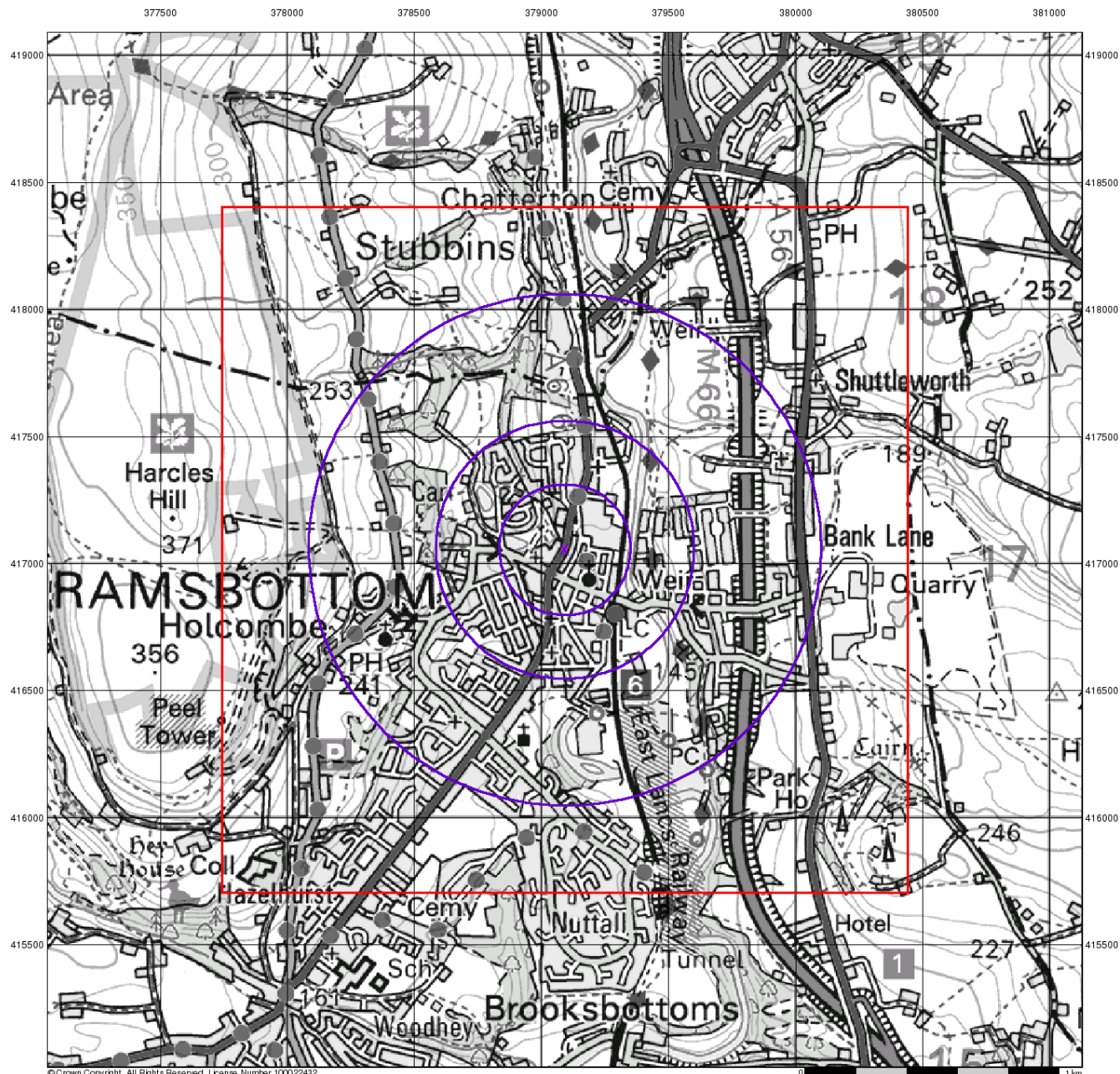
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 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

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Source Protection Zones

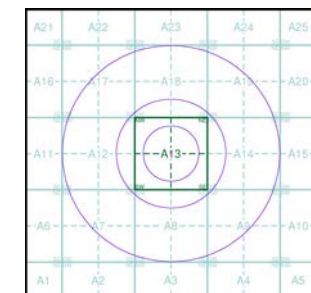
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

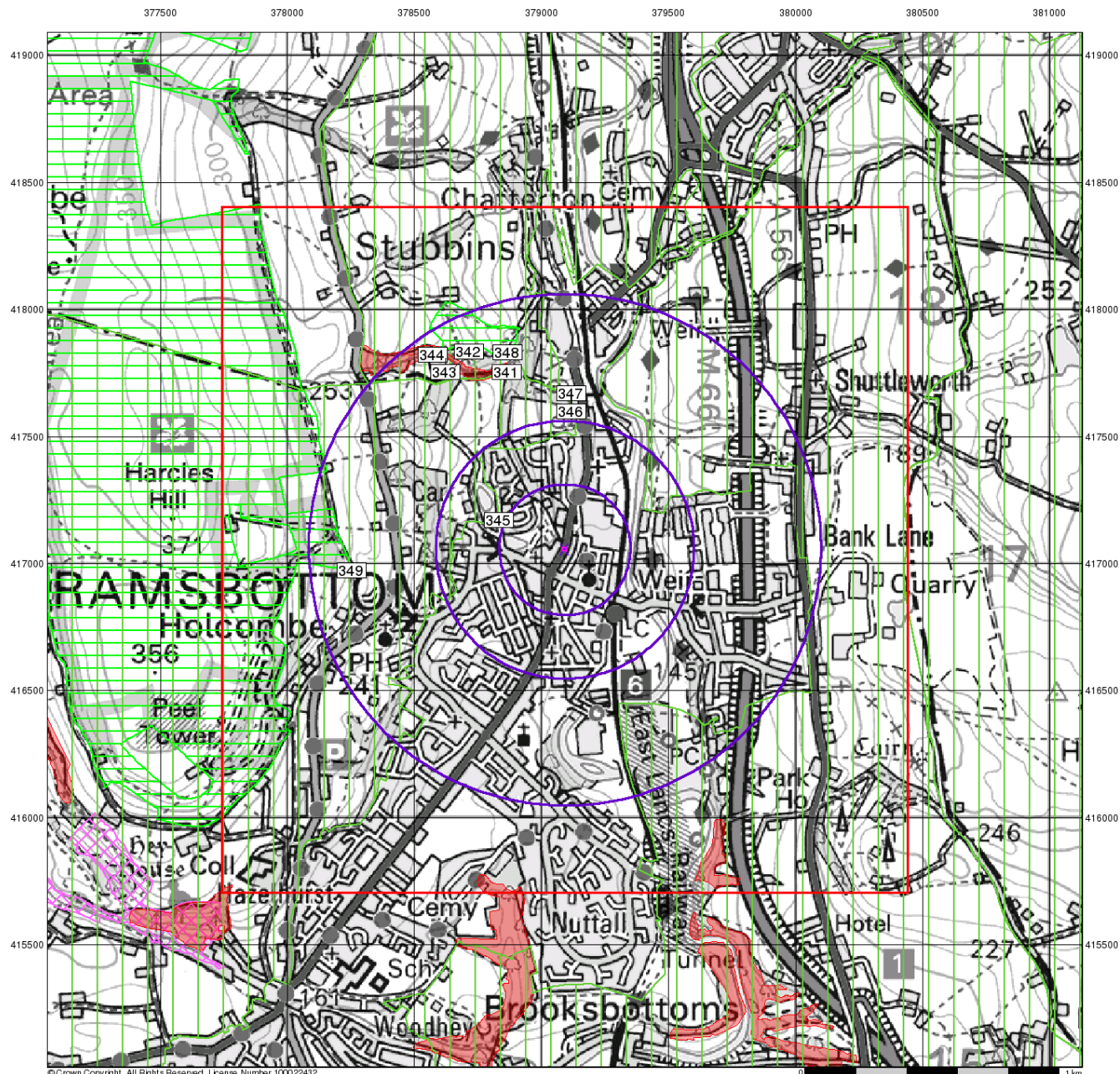
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 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
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Sensitive Land Uses

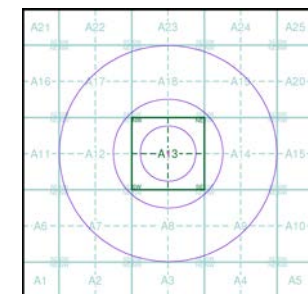
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

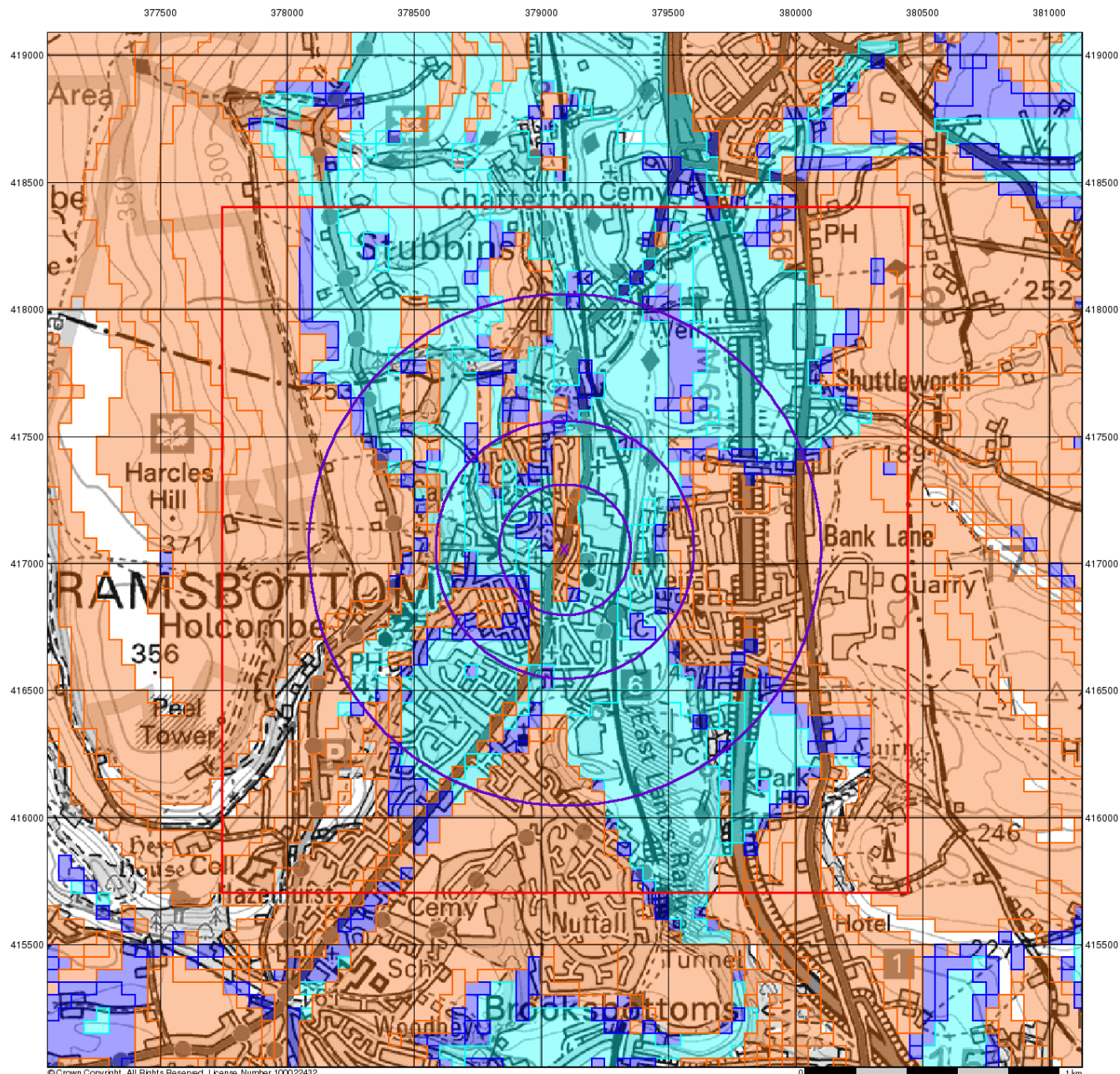


Order Details

Order Number: 339192756_1_1
 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

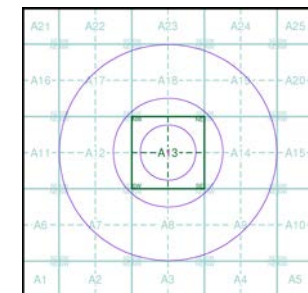
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 339192756_1_1
 Customer Ref: 30359
 National Grid Reference: 379090, 417050
 Slice: A
 Site Area (Ha): 0.02
 Search Buffer (m): 1000

Site Details

Carr Bank Lodge, Ramsbottom, BURY, BL0 9BY

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

339192756_1_1

Customer Reference:

30359

National Grid Reference:

379090, 417050

Slice:

A

Site Area (Ha):

0.02

Search Buffer (m):

1000

Site Details:

Carr Bank Lodge

Ramsbottom

BURY

BL0 9BY

Client Details:

Mr K Lyon

ALM Consult Ltd

Paddock Business Centre

2 Paddock Road

Skelmersdale

WN8 9PL

Prepared For:

ALM Consult Ltd

Report Section	Page Number
Summary	-
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Geological	50
Industrial Land Use	54
Sensitive Land Use	79
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		1	4	4
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 5			1	2
Integrated Pollution Prevention And Control	pg 6			5	7
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9		5	3	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 10		Yes		
Pollution Incidents to Controlled Waters	pg 10		2	6	9
Prosecutions Relating to Authorised Processes	pg 13			1	1
Registered Radioactive Substances					
River Quality	pg 14			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 14			3	1
Water Abstractions	pg 14			18	31 (*14)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 30	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 30	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 30	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 30		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 30		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 31		Yes	n/a	n/a
OS Water Network Lines	pg 31		6	45	66

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 44			1	3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 44			4	
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 45				8
Potentially Infilled Land (Water)	pg 46		4	8	12
Registered Landfill Sites	pg 47			1	
Registered Waste Transfer Sites	pg 48		1	1	
Registered Waste Treatment or Disposal Sites	pg 49			1	
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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 50	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 50	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 51				7
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 52	Yes	n/a	n/a	n/a
Mining Instability	pg 52	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 52	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 52	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 52		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 53	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 53	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 53	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 54		32	50	36
Fuel Station Entries	pg 64			2	
Points of Interest - Commercial Services	pg 64		4	20	10
Points of Interest - Education and Health	pg 67				2
Points of Interest - Manufacturing and Production	pg 67		16	20	47
Points of Interest - Public Infrastructure	pg 74		4	17	14
Points of Interest - Recreational and Environmental	pg 77			4	3
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 79				4
Areas of Adopted Green Belt	pg 79			1	2
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 79				2
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	379092 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	34	1	379050 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	36	1	379050 417050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	47	1	379100 417000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	90	1	379100 417150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	96	1	379050 417150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	134	1	378950 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	144	1	379050 417200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	147	1	379100 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	168	1	378950 416950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	172	1	379000 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	201	1	378950 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	210	1	378900 416950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	231	1	378900 417200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	238	1	378900 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	241	1	378950 416850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	250	1	379350 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	251	1	379300 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	254	1	379000 417300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	257	1	379350 417000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	275	1	378950 417300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	283	1	378950 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	292	1	379050 417350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	301	1	378850 417250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	302	1	379000 417350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	308	1	378850 416850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	310	1	378900 416800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	313	1	379400 417150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	319	1	378950 417350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	334	1	378750 417050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	335	1	378850 417300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	339	1	378750 417000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	343	1	378850 416800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	350	1	379000 417400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	350	1	379450 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	354	1	379350 416800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	365	1	378950 417400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	372	1	378800 417300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	374	1	378950 416700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	383	1	379450 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	384	1	378700 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	389	1	378700 417000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	391	1	379050 417450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	400	1	379500 417050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	400	1	379500 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	406	1	378800 417350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	418	1	378750 416800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	424	1	379500 417200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	430	1	379500 416900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	438	1	379300 417450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	440	1	379092 417500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	450	1	379050 416600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (NW)	455	1	378850 417450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	469	1	378950 416600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	474	1	379500 416800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	477	1	378900 417500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	477	1	378750 417400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	484	1	378600 417055
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	488	1	379550 417250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	490	1	379100 417550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	500	1	379600 417055
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Carr Street Cso 099bp 82 Carr Street, Ramsbottom, Bury, Lancashire, B10 9eg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0001 Permit Version: 3 Effective Date: 5th February 2016 Issued Date: 5th February 2016 Revocation Date: 10th April 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Irwell Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SW (W)	221	2	378864 417040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Kays (Ramsbottom) Ltd Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Britannia Works Kenyon St, Ramsbottom, Bury, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 0165/76 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 15th August 2017 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NE (E)	319	2	379419 417068
2	Discharge Consents Operator: Kays (Ramsbottom) Ltd Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Britannia Works Kenyon St, Ramsbottom, Bury, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 0165/76 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13NE (E)	319	2	379419 417068
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Carr Street Cso 099bp 82 Carr Street, Ramsbottom, Bury, Lancashire, B10 9eg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0001 Permit Version: 4 Effective Date: 11th April 2018 Issued Date: 11th April 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	322	2	379348 416847
4	Discharge Consents Operator: Brian Leslie Murfin Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Top Wood Farm Springwood St, Ramsbottom, Bury, Lancashire, B10 9ds Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 0170/1308 Permit Version: 1 Effective Date: 16th October 1970 Issued Date: 16th October 1970 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Irwell Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	436	2	378720 417300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: ARCHITECTURAL+ENGINEERING + TECHNICAL TESTING+ANALYSIS Location: Holcombe Service Reservoir, Carr, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982483 Permit Version: 1 Effective Date: 24th June 1992 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Irwell Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A12NE (W)	619	2	378470 417140
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Carr Street Cso 099bp 82 Carr Street, Ramsbottom, Bury, Lancashire, B10 9eg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0001 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 4th February 2016 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	631	2	379350 416470
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Carr Street Cso 099bp 82 Carr Street, Ramsbottom, Bury, Lancashire, B10 9eg Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0001 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	631	2	379350 416470
7	Discharge Consents Operator: Sterling Stubbins Mill Ltd Property Type: MAKING OF PAPER+PAPER PRODUCTS Location: Sterling Stubbins Ltd Stubbins Lane, Ramsbottom, Nr Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990076 Permit Version: 1 Effective Date: 1st January 1980 Issued Date: Not Supplied Revocation Date: 31st August 1989 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Irwell Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	749	2	379270 417790
8	Integrated Pollution Controls Name: Mondi Holcombe Ltd Location: Holcombe Mill, Bridge Street, Ramsbottom, BURY, Lancashire, BL0 0BS Authority: Environment Agency, North West Region Permit Reference: AU7451 Dated: 27th January 1997 Process Type: IPC new application Description: 6.1 A (B) Paper and Pulp manufacturing processes within Miscellaneous Industries Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	362	2	379368 416808

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Integrated Pollution Controls Name: Georgia Pacific Gb Ltd Location: Stubbins Lane, Ramsbottom, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: AU8601 Dated: 27th July 1998 Process Type: IPC new application Description: 6.1 A (A) Paper and Pulp manufacturing processes within Miscellaneous Industries Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	717	2	379147 417776
9	Integrated Pollution Controls Name: Georgia Pacific Gb Ltd Location: Stubbins Lane, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: BD4996 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.1 A (A) Paper and Pulp manufacturing processes within Miscellaneous Industries Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	763	2	379146 417822
10	Integrated Pollution Prevention And Control Name: Kays Ltd Location: Ramsbottom Soap Works, Britannia Works, Kenyon Street, , Ramsbottom, BURY, Lancashire, BL0 0AE Authority: Environment Agency, North West Region Permit Reference: XP3131YF Original Permit Ref: Wp3339lw Effective Date: 22nd August 2017 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (XI) Activity Description: Organic Chemicals; Surface-Active Agents Primary Activity: Y	A13NE (E)	315	2	379408 417127
10	Integrated Pollution Prevention And Control Name: Kays Limited Location: Ramsbottom Soap Works, Britannia Works, Ramsbottom Soap Works, Kenyon Street,, Ramsbottom, Lancashire, BL0 0AE Authority: Environment Agency, North West Region Permit Reference: WP3339LW Original Permit Ref: Wp3339lw Effective Date: 22nd August 2017 Status: Surrendered Application Type: Surrender App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (XI) Activity Description: Organic Chemicals; Surface-Active Agents Primary Activity: Y	A13NE (E)	315	2	379408 417127
10	Integrated Pollution Prevention And Control Name: Kays Ltd Location: Ramsbottom Soap Works, Britannia Works, Kenyon Street, , Ramsbottom, BURY, Lancashire, BL0 0AE Authority: Environment Agency, North West Region Permit Reference: VP3435XJ Original Permit Ref: Wp3339lw Effective Date: 14th February 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (XI) Activity Description: Organic Chemicals; Surface-Active Agents Primary Activity: Y	A13NE (E)	315	2	379408 417127

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Integrated Pollution Prevention And Control Name: Mondi Holcombe Limited Location: Danisco Paper Limited, Holcombe Paper Mill, Danisco Paper Limited, Peel Bridge,,, Ramsbottom, Surrey, BL0 0BS Authority: Environment Agency, North West Region Permit Reference: Bjp6542iq Original Permit Ref: Bjp6542iq Effective Date: 25th June 2010 Status: Surrendered Application Type: Surrender App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A13SE (SE)	441	2	379411 416739
11	Integrated Pollution Prevention And Control Name: Mondi Holcombe Ltd Location: Danisco Paper Limited, Holcombe Paper Mill, Peel Bridge,,, Ramsbottom, Lancashire, BL0 0BS Authority: Environment Agency, North West Region Permit Reference: KP3530KN Original Permit Ref: Bjp6542iq Effective Date: 25th June 2010 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A13SE (SE)	441	2	379411 416739
12	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Tissue Limited Location: Stubbins Mill, Stubbins Lane, Stubbins Mill, Ramsbottom, BURY, Central Bedfordshire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: MP3331CX Original Permit Ref: Mp3331cx Effective Date: 28th February 2014 Status: Superseded Application Type: Variation (Minor Technical) App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 100m Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A18NE (N)	840	2	379100 417900
12	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Tissue Limited Location: Stubbins Mill, Stubbins Lane, Ramsbottom,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: HP3331EL Original Permit Ref: Mp3331cx Effective Date: 28th February 2014 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A18NE (N)	840	2	379100 417900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Integrated Pollution Prevention And Control Name: Essity Uk Limited Location: Stubbins Mill - Epr/Lp3636ww, Stubbins Mill, Stubbins Mill - Epr/Lp3636ww, Stubbins Lane,,, Ramsbottom, Central Bedfordshire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: LP3636WW Original Permit Ref: Lp3636ww Effective Date: 26th June 2022 Status: Effective Application Type: Variation (Minor Technical) App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 6.1 A(1) (A) Activity Description: Paper, Pulp And Board; Producing Pulp From Timber Etc Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A18NW (N)	851	2	379053 417911
12	Integrated Pollution Prevention And Control Name: Essity Uk Limited Location: Stubbins Mill - Epr/Lp3636ww, Stubbins Mill, Stubbins Lane,,, Ramsbottom, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: BP3031JD Original Permit Ref: Lp3636ww Effective Date: 14th March 2018 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 6.1 A(1) (A) Activity Description: Paper, Pulp And Board; Producing Pulp From Timber Etc Primary Activity: N Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A18NW (N)	851	2	379053 417911
12	Integrated Pollution Prevention And Control Name: Sca Hygiene Products Uk Limited Location: Stubbins Mill, STUBBINS LANE,, RAMSBOTTOM,, BURY, LANCASHIRE, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: VP3534AQ Original Permit Ref: Lp3636ww Effective Date: 29th July 2016 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N	A18NW (N)	851	2	379053 417911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Integrated Pollution Prevention And Control Name: Georgia-Pacific Gb Limited Location: Fort James Uk Limited, Stubbins Lane, Ramsbottom,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: NP3830FA Original Permit Ref: Bj6534is Effective Date: 14th November 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A18NW (N)	852	2	379053 417911
12	Integrated Pollution Prevention And Control Name: Georgia-Pacific Gb Limited Location: Fort James Uk Limited, Stubbins Lane,Fort James Uk Limited, Ramsbottom,,, BURY, Lancashire, BL0 0NH Authority: Environment Agency, North West Region Permit Reference: Bj6534is Original Permit Ref: Bj6534is Effective Date: 14th November 2011 Status: Superseded Application Type: Variation (Minor Technical) App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 6.1 A(1) (B) Activity Description: Paper, Pulp And Board; Producing Paper/Board Greater Than 20T/D Primary Activity: Y	A18NW (N)	852	2	379053 417911
13	Local Authority Pollution Prevention and Controls Name: First Impression Location: 44 Bridge Street, Ramsbottom, Bury, BL0 9aq Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC0613 Dated: 1st February 2007 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 (SE)	166	3	379162 416895
14	Local Authority Pollution Prevention and Controls Name: Ma Crushing And Screening Location: Unit 3, Garden Street, Ramsbottom, BL0 9bg Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC13-01 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13SE (E)	210	3	379310 417052
14	Local Authority Pollution Prevention and Controls Name: Ma Crushing And Screening Location: Unit 3, Garden Street, Ramsbottom, BL0 9bg Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC14-02 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13SE (E)	210	3	379310 417052
14	Local Authority Pollution Prevention and Controls Name: Ma Crushing And Screening Location: Unit 3, Garden Street, Ramsbottom, BL0 9bg Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC14-01 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13SE (E)	210	3	379310 417052

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Local Authority Pollution Prevention and Controls Name: Ma Crushing And Screening Location: Unit 3, Garden Street, Ramsbottom, BL0 9bg Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC13-02 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13SE (E)	210	3	379310 417052
15	Local Authority Pollution Prevention and Controls Name: Ramsbottom Service Station Location: Stubbins Road, Ramsbottom, BURY, Lancashire, BL0 0PU Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Lappc05-08 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A13NE (NE)	256	3	379211 417291
16	Local Authority Pollution Prevention and Controls Name: Station Garage Location: Railway Street, Ramsbottom, BURY, Lancashire, BL0 9AL Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Ps25 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A13SE (SE)	268	3	379262 416837
17	Local Authority Pollution Prevention and Controls Name: Smart Alex Location: Unit 2, Field Mill, Harrison Street, Bury, BL0 0ah Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC06-16 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A13SE (E)	293	3	379388 417008
18	Local Authority Pollution Prevention and Controls Name: Fort James Ltd Location: Stubbins Lane, RAMSBOTTOM, Lancashire, BL0 0 Authority: Rossendale Borough Council, Environmental Health Department Permit Reference: Av8601 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/18 Paper coating Status: Not Supplied Positional Accuracy: Manually positioned to the address or location	A18NW (N)	851	4	379052 417911
19	Local Authority Pollution Prevention and Controls Name: Carrington Morada Location: Hope Works, Hope Street, Ramsbottom, BURY, Lancashire, M45 6RW Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: 24 Dated: 1st March 1999 Process Type: Local Authority Air Pollution Control Description: PG6/8 Textile and fabric coating of finishing processes Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A8SW (S)	892	3	378777 416212
	Nearest Surface Water Feature	A13NW (W)	150	-	378937 417087
20	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Crow Lane, Ramsbottom, RAMSBOTTOM, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th July 1999 Incident Reference: 29640 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Climatic Conditions : Floods Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13NE (E)	106	2	379200 417095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Crow Lane, Ramsbottom, RAMSBOTTOM, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th July 1999 Incident Reference: 29622 Catchment Area: Irwell Receiving Water: River Stretch (Freshwater) Cause of Incident: Climatic Conditions : Floods Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	108	2	379200 417100
21	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: River Irwell; Tallow Incident Date: 26th May 1995 Incident Reference: 95621253 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	306	2	379400 417000
21	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: River Irwell Incident Date: 27th April 1995 Incident Reference: 95620928 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	307	2	379400 416995
22	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Treated Effluent Note: River Irwell Incident Date: 15th September 1995 Incident Reference: 95622331 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	402	2	379500 417100
23	Pollution Incidents to Controlled Waters Property Type: Paper Industry Location: River Irwell, SUMMERSEAT Authority: Environment Agency, North West Region Pollutant: Oils - Black Fuel Oil Note: Thick Oil Incident Date: 29th March 1998 Incident Reference: SO980545 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Leaking Underground Pipe Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	465	2	379400 416695
24	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Colour Note: River Irwell Incident Date: 5th August 1995 Incident Reference: 95611997 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 (SE)	474	2	379500 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Irwell, RAMSBOTTOM Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 11th February 1999 Incident Reference: 790 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	476	2	379500 416795
25	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: 2nd April 1996 Incident Reference: 96620652 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	A9NW (SE)	533	2	379500 416700
26	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Fire Near To Kwik Save In, Railway Street, RAMSBOTTOM Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 4th August 1998 Incident Reference: SO981398 Catchment Area: Irwell Receiving Water: Onto Land Cause of Incident: Fire Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	541	2	379400 416600
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Irwell Incident Date: 19th August 1995 Incident Reference: 95622126 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	A8NE (S)	547	2	379100 416500
28	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: 16th January 1996 Incident Reference: 96620097 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	A8NW (S)	555	2	379000 416500
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 12th January 1994 Incident Reference: 94620073 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 (SE)	561	2	379600 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: River Irwell Incident Date: 15th July 1995 Incident Reference: 95621770 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	A8NE (S)	647	2	379100 416400
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Tributary Irwell; Iron Poln General Incident Date: 6th April 1995 Incident Reference: 95620729 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	A9NW (SE)	680	2	379500 416500
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Irwell Incident Date: 12th August 1995 Incident Reference: 95622068 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	741	2	379200 417795
33	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: River Irwell, A676, STUBBI Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Mineral & Synthetic Oils Note: Not Supplied Incident Date: 6th January 1999 Incident Reference: 368 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A18NE (N)	798	2	379400 417800
34	Prosecutions Relating to Authorised Processes Location: Kenyon Street, Ramsbottom Prosecution Text: Illegally depositing and storing waste Prosecution Act: Epr38(1)(A) Hearing Date: 1st June 2009 Verdict: Guilty Fine: 7000 Costs: 2900 Positional Accuracy: Manually positioned to the address or location	A13SE (E)	285	2	379375 416983
35	Prosecutions Relating to Authorised Processes Location: Cuba Industrial Estate, Bolton Road North, Stubbins, Ramsbottom, BI0 One Prosecution Text: Illegally storing waste without a WML Prosecution Act: Epa90 S33(1)(A) & (B) Hearing Date: 4th March 2005 Verdict: Guilty Fine: 12000 Costs: 2500 Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	816	2	379227 417866

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Irwell GQA Grade: River Quality C Reach: Rossendale Stw To Chest Wheel Bridge Estimated Distance (km): 9.2 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13SE (E)	260	2	379358 417031
36	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 25th March 2005 Incident Reference: 301340 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Chemical Odour	A13NE (N)	255	2	379159 417308
37	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 22nd June 2014 Incident Reference: 1247989 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A13SE (SE)	334	2	379405 416919
38	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 7th June 2019 Incident Reference: 1708546 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A14SW (SE)	418	2	379447 416820
39	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 23rd April 2022 Incident Reference: 2055782 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals/Products: Surfactants And Detergents	A8NE (S)	665	2	379133 416383
40	Water Abstractions Operator: Kays Ramsbottom Ltd Licence Number: 2569001047 Permit Version: 100 Location: River Irwell At Britannia Works Kenyon Street Ramsbottom Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Britannia Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (E)	303	2	379400 417100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	Water Abstractions Operator: Kays Ramsbottom Ltd Licence Number: 2569001047 Permit Version: 100 Location: River Irwell At Britannia Works Kenyon Street Ramsbottom 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): 636 Yearly Rate (m3): 159111 Details: Premises, Britannia Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (E)	303	2	379400 417100
41	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001224 Permit Version: 103 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Holcombe Paper Mill, Peel Bridge 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	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Mondi Holcombe Limited Licence Number: 2569001029 Permit Version: 105 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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 Peel Bridge Mills 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	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001029 Permit Version: 104 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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 Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2005 Permit End Date: 31st March 2015 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	320	2	379300 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Water Abstractions Operator: Mondi Packaging Holcombe Limited Licence Number: 2569001224 Permit Version: 102 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Holcombe Paper Mill, Peel Bridge 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	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 103 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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 Peel Bridge Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2004 Permit End Date: 31st March 2015 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 102 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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 Peel Bridge Mills 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	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001029 Permit Version: 102 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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 Peel Bridge Mills 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	A13SE (SE)	320	2	379300 416800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Water Abstractions Operator: Mondi Paper Limited Licence Number: 2569001224 Permit Version: 101 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Holcombe Paper Mill, Peel Bridge 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	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001224 Permit Version: 100 Location: R.Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1091 Yearly Rate (m3): 90920 Details: Holcombe Paper Mill, Peel Bridge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	320	2	379300 416800
41	Water Abstractions Operator: Danisco Paper Ltd Licence Number: 2569001029 Permit Version: 101 Location: Goit Fed By Surface Drainage And River Irwell At Ramsbottom Authority: Environment Agency, North West Region Abstraction: Paper And Printing: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1637 Yearly Rate (m3): 272766 Details: Premises At Peel Bridge Mills 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	A13SE (SE)	324	2	379300 416795
42	Water Abstractions Operator: Bury Metropolitan Borough Council Licence Number: 2569001246 Permit Version: 100 Location: River Irwell At Bridge Street Ramsbottom Authority: Environment Agency, North West Region Abstraction: Amenity: Supply to a Leat for Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 172920 Yearly Rate (m3): 63115200 Details: Land At Bridge St , Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	321	2	379350 416850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	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	A8NE (SE)	403	2	379300 416700
43	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	A8NE (SE)	403	2	379300 416700
43	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	A8NE (SE)	403	2	379300 416700
43	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	A8NE (SE)	403	2	379300 416700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	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	A8NE (SE)	403	2	379300 416700
44	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	A8NE (S)	584	2	379300 416500
45	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001201 Permit Version: 105 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	722	2	379246 417768
45	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001201 Permit Version: 104 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	722	2	379246 417768

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001201 Permit Version: 103 Location: River Irwell At 'A' At Stubbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	722	2	379246 417768
46	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001201 Permit Version: 102 Location: R Irwell At Ramsbottom, Bury 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 Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	746	2	379200 417800
46	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001201 Permit Version: 101 Location: R Irwell At Ramsbottom, Bury 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 Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	746	2	379200 417800
46	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001201 Permit Version: 100 Location: R Irwell At Ramsbottom, Bury 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): 11365 Yearly Rate (m3): 4159680 Details: Premises At Stubbins, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	746	2	379200 417800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoirs 'A' At Stubbins, Ramsbottom, Bury Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (NW)	771	2	378785 417771
47	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 102 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins 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: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	793	2	378800 417800
47	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001128 Permit Version: 101 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins 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: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	793	2	378800 417800
47	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001128 Permit Version: 100 Location: Reservoirs (2) Fed By Surface Drainage At Stubbins Pap 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): 5682 Yearly Rate (m3): 1704750 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	793	2	378800 417800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001129 Permit Version: 105 Location: Borehole A' At Stubbins Paper Mill, 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	835	2	379012 417892
48	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001129 Permit Version: 104 Location: Borehole A' At Stubbins Paper Mill, 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	835	2	379012 417892
48	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001129 Permit Version: 103 Location: Borehole A' At Stubbins Paper Mill, 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	835	2	379012 417892
48	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001129 Permit Version: 102 Location: Borehole At Stubbins Paper Mill, 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	844	2	379000 417900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001129 Permit Version: 101 Location: Borehole At Stubbins Paper Mill, 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	844	2	379000 417900
48	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001129 Permit Version: 100 Location: Borehole At Stubbins Paper Mill, 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): 2728 Yearly Rate (m3): 545520 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	844	2	379000 417900
49	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001128 Permit Version: 106 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	836	2	378930 417882
49	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001128 Permit Version: 105 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	836	2	378930 417882

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoir 'B' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	836	2	378930 417882
50	Water Abstractions Operator: Scapa-Porritt Ltd. Licence Number: 2569001006 Permit Version: Not Supplied Location: Spring Fed Collecting Chamber, Stubbins, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 25 Yearly Rate (m3): 8437 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	A17SE (NW)	866	2	378500 417700
51	Water Abstractions Operator: Essity Uk Limited Licence Number: 2569001128 Permit Version: 106 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th March 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	895	2	378938 417943
51	Water Abstractions Operator: Sca Hygiene Products Uk Ltd Licence Number: 2569001128 Permit Version: 105 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th July 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	895	2	378938 417943

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 103 Location: Reservoir 'C' At Subbins, Ramsbottom, Bury. Authority: Environment Agency, North West Region Abstraction: Paper And Printing: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th November 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	895	2	378938 417943
52	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	A7SE (SW)	932	2	378700 416200
53	Water Abstractions Operator: Sca Hygiene Products Tissue Limited Licence Number: 2569001128 Permit Version: 102 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins 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: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	A18NW (N)	944	2	379000 418000
53	Water Abstractions Operator: Georgia-Pacific Gb Ltd Licence Number: 2569001128 Permit Version: 101 Location: Reservoirs X 2 Fed By Surface Drainage At Stubbins 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: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	944	2	379000 418000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Water Abstractions Operator: Fort James Uk Ltd Licence Number: 2569001128 Permit Version: 100 Location: Reservoirs (2) Fed By Surface Drainage At Stubbin\$85 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): 0 Yearly Rate (m3): 0 Details: Stubbins Paper Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	944	2	379000 418000
54	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	A8SW (S)	967	2	378900 416100
55	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001086 Permit Version: 101 Location: Borehole At Premises Rosebank Printworks 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises Croft Bleach Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	986	2	379400 418000
55	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001086 Permit Version: 100 Location: Borehole At Premises, Rosebank Printworks, 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): 1091 Yearly Rate (m3): 13638 Details: Premises Croft Bleach Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th January 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	986	2	379400 418000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001180 Permit Version: 101 Location: Reservoir At Rosebank Printworks Ramsbottom Near Bury 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, Bleach Croft Mill,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SW (N)	1208	2	379500 418200
	Water Abstractions Operator: Edward Turnbull & Co Ltd Licence Number: 2569001180 Permit Version: 100 Location: Reservoir At Rosebank Printworks, Ramsbottom, Near Bury 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): 1964 Yearly Rate (m3): 547793 Details: Premises, Bleach Croft Mill,Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SW (N)	1208	2	379500 418200
	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	A11NE (W)	1306	2	377800 417300
	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	A3SE (S)	1363	2	379300 415700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001199 Permit Version: 101 Location: Cross Bank Brk At Ramsbottom, Bury 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 Ramsbottom, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th August 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (E)	1372	2	380400 417500
	Water Abstractions Operator: Marshalls Mono Ltd Licence Number: 2569001199 Permit Version: 100 Location: Cross Bank Brk At Ramsbottom, Bury 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): 34096 Details: Premises At Ramsbottom, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th February 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (E)	1372	2	380400 417500
	Water Abstractions Operator: Voith Fabrics Stubbins Ltd Licence Number: 2569001110 Permit Version: 101 Location: Reservoir Fed By Unnamed Tributary River Irwell Stubbins 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): 1136 Yearly Rate (m3): 272766 Details: Premises At Stubbins Vale Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NW (N)	1468	2	378800 418500
	Water Abstractions Operator: Voith Paper Fabrics Stubbins Ltd Licence Number: 2569001110 Permit Version: 102 Location: Un-Named Tributary River Irwell At Lh Premises Stubbins Vale Authority: Environment Agency, North West Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lh Premises At Stubbins Vale Mills Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th February 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NE (N)	1561	2	378730 418580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Turnbull & Stockdale Ltd Licence Number: 2569001179 Permit Version: 100 Location: Reservoir At Premises, Edenwood Mill, 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): 1091 Yearly Rate (m3): 218208 Details: Edenwood Mill, Ramsbottom Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1601	2	379800 418500
	Water Abstractions Operator: North West Water Authority Licence Number: 2569001183 Permit Version: Not Supplied Location: River Irwell, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Monitoring Water Quantity Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 700 Yearly Rate (m3): 25000 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	(N)	1751	2	379300 418800
	Water Abstractions Operator: Scapa-Porritt Ltd Licence Number: 2569001007 Permit Version: Not Supplied Location: Spring Fed Collecting Chamber, North Of Stubbins, RAMSBOTTOM Authority: Environment Agency, North West Region Abstraction: Private Water Supplies (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 32 Yearly Rate (m3): 11615 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	A22NW (NW)	1777	2	378400 418700
	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	A1NE (SW)	1792	2	377800 415800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A1NE (SW)	1796	2	377800 415795
	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	A1NW (SW)	1941	2	377600 415800
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13NW (W)	0	5	379092 417055
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (W)	0	5	379092 417055
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (W)	0	5	379092 417055
	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)	41	2	379136 417080
	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 (SE)	179	2	379236 416936
	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)	44	2	379144 417064
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences Type: Flood Defences Reference: Not Supplied	A13SE (E)	250	2	379345 417011
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 519.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (SW)	99	6	379040 416961
57	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 52.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	162	6	378926 417093
58	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (W)	199	6	378885 417047
59	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 65.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	209	6	378876 417079
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	249	6	378847 417136
61	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	250	6	378846 417135
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	252	6	378844 417137
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 396.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A13SE (E)	262	6	379356 417002
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	291	6	378805 417141

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	306	6	378830 417231
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 100.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	314	6	378824 417236
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	315	6	378778 417135
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A13SE (SE)	316	6	379353 416862
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A13SE (SE)	318	6	379362 416872
70	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 61.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SE (SE)	351	6	379340 416795
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A13SE (SE)	352	6	379396 416862
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A13SE (SE)	352	6	379396 416862
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	359	6	379397 417262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A13NE (NE)	359	6	379397 417262
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A13SE (SE)	361	6	379394 416842
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A13SE (SE)	367	6	379407 416852
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SE (SE)	396	6	379338 416734
78	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	399	6	378763 417296
79	OS Water Network Lines Watercourse Form: Marsh Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	399	6	378763 417296
80	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	400	6	378761 417296
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 316.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	402	6	378768 417308
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	411	6	378748 417297

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	411	6	378683 417148
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	422	6	378737 417300
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	429	6	378665 417152
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	433	6	379498 417230
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SW (N)	442	6	379043 417500
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (SE)	444	6	379343 416678
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	446	6	378683 417254
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	450	6	378643 417147
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 214.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	450	6	378643 417147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (SW)	462	6	378821 416671
93	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	463	6	379097 417523
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (SW)	465	6	378825 416664
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (SW)	466	6	378819 416666
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	471	6	378694 417324
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	476	6	379034 416575
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	476	6	378936 416596
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	478	6	378637 417231
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (SE)	480	6	379344 416637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (SE)	487	6	379342 416626
102	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 28.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	488	6	378622 417215
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A12NE (NW)	489	6	378633 417249
104	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	492	6	378637 417266
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	497	6	379025 416555
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	497	6	379012 416557
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	506	6	379039 416544
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	518	6	378651 417343
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 275.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	525	6	378642 417344

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 372.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A18SE (NE)	577	6	379400 417553
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A18SE (NE)	577	6	379400 417553
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NE (SW)	582	6	378662 416649
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (S)	594	6	379296 416488
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	607	6	379142 417666
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (S)	610	6	379296 416471
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	613	6	379167 417670
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8NE (S)	614	6	379234 416449
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 301.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8NE (S)	621	6	379297 416459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SW (N)	621	6	379062 417681
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	622	6	379521 416593
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	628	6	379529 416593
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 331.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A18SE (N)	631	6	379234 417677
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8NE (S)	641	6	379164 416410
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	649	6	379555 416589
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	649	6	379555 416589
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 299.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	651	6	378439 417148
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	651	6	378439 417148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	663	6	379539 416553
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	663	6	379539 416553
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	663	6	379540 416555
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	664	6	379539 416553
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NE (SW)	737	6	378509 416590
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	753	6	378849 417776
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	755	6	379000 417810
135	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 77.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	764	6	378822 417777
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A18NW (N)	772	6	378860 417798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 95.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A18NW (N)	785	6	378912 417826
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 506.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17NE (NW)	785	6	378747 417768
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A19SW (NE)	812	6	379752 417543
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	812	6	379752 417543
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.9 Watercourse Level: Underground Permanent: True Watercourse Name: Cross Bank Brook Catchment Name: Mersey Primacy: 1	A19SE (NE)	838	6	379785 417544
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	853	6	378565 416373
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A8SE (S)	857	6	379168 416193
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	857	6	379168 416193
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	866	6	378965 417918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	869	6	378932 417915
147	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	869	6	378932 417915
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	869	6	378359 416574
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	869	6	378359 416574
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	870	6	378926 417916
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	870	6	378936 417918
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	879	6	378904 417921
153	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	884	6	378885 417921
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 356.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	885	6	378880 417921

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A8SE (S)	891	6	379268 416172
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	891	6	379268 416172
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	894	6	378193 417134
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 2	A8SE (S)	899	6	379285 416168
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	899	6	379305 416173
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	900	6	378187 417129
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	905	6	378182 417129
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	910	6	379347 416172
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 302.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	916	6	379298 416153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	916	6	378292 416593
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	916	6	378292 416593
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 379.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A8SE (S)	925	6	379358 416160
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	938	6	378175 417289
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Irwell Catchment Name: Mersey Primacy: 1	A18NE (N)	939	6	379383 417955
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	939	6	379389 417953
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	972	6	379729 416310
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	972	6	379729 416310
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (SE)	981	6	379754 416320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	Historical Landfill Sites Licence Holder: Irwell Street Metal Company Limited Location: Railway Street/Kenyon Street, Ramsbottom, Bury, Greater Manchester Name: Mill Lodge Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15670 First Input Date: 31st December 1977 Last Input Date: 31st July 1979 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9169 BGS Ref: Not Supplied Other Ref: C013, RD/LIC/009/76	A8NE (SE)	418	2	379318 416693
174	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Helmsore Road, Ramsbottom, Greater Manchester Name: Higher Barn Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15666 First Input Date: 31st December 1983 Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C120	A12SW (W)	761	2	378325 417017
175	Historical Landfill Sites Licence Holder: Bury Metropolitan Borough Council Location: Off Hope Street, Ramsbottom, Greater Manchester Name: Carrington Novare Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15676 First Input Date: 31st December 1960 Last Input Date: 31st December 1984 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9722 BGS Ref: Not Supplied Other Ref: C083	A8SW (S)	997	2	378909 416067
176	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	A7SE (S)	998	2	378732 416116
177	Licensed Waste Management Facilities (Locations) Licence Number: 50393 Location: Unit 4, Harrison Street, Ramsbottom, Bury, Lancashire, BL0 0AH Operator Name: 9 Apart Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: End of Life Vehicles Licence Status: Modified Issued: 18th July 2005 Last Modified: 14th August 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (E)	301	2	379401 417054

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	Licensed Waste Management Facilities (Locations) Licence Number: 100969 Location: Waterside Mill, Kenyon Street, Ramsbottom, Lancashire, BL0 0AB Operator Name: Wheeldon Brothers Waste Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCl Waste TS + treatment Licence Status: Transferred Issued: 4th August 2009 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	365	2	379441 416928
178	Licensed Waste Management Facilities (Locations) Licence Number: 53695 Location: Land/premises At, Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Operator Name: Irwell Street Metal Co Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Special Waste Transfer Stations Licence Status: Modified Issued: 5th January 1994 Last Modified: 21st November 2002 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	375	2	379455 416937
179	Licensed Waste Management Facilities (Locations) Licence Number: 53695 Location: Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Operator Name: Irwell Street Metal Co Ltd Operator Location: Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Authority: Environment Agency - North West Region, South Area Site Category: Special Waste Transfer Stations Licence Status: Issued Issued: 5th January 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	385	2	379441 416875
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	7	379092 417055
	Local Authority Landfill Coverage Name: Rossendale Borough Council - Has supplied landfill data		591	4	379168 417647
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		591	8	379168 417647
180	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12NE (W)	532	-	378553 417082
181	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12NE (W)	544	-	378545 417127
182	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12NE (W)	607	-	378484 417151
183	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12SE (W)	630	-	378455 417035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12NE (W)	671	-	378417 417135
185	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18NE (N)	726	-	379112 417786
186	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12NW (W)	732	-	378358 417146
187	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A12SW (W)	842	-	378244 417000
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NE (E)	142	-	379240 417083
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NE (NE)	142	-	379188 417172
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (W)	206	-	378878 417051
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NW (W)	237	-	378856 417125
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (S)	317	-	379110 416730
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NW (E)	375	-	379465 417146
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NW (NW)	395	-	378772 417302
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (SE)	433	-	379334 416685
196	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (SE)	437	-	379314 416668
197	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (SE)	464	-	379285 416623
198	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (S)	481	-	379127 416568
199	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (SE)	486	-	379347 416631
200	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (S)	505	-	379128 416544
201	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8NE (S)	505	-	379216 416556
202	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NE (SE)	509	-	379321 416591
203	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	560	-	379091 416487

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NE (SW)	579	-	378639 416680
205	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18SE (N)	602	-	379194 417655
206	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NW (E)	621	-	379684 417272
207	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9NW (SE)	691	-	379601 416575
208	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (N)	698	-	379168 417755
209	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19SE (NE)	934	-	379866 417595
210	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SE (S)	956	-	379318 416118
211	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SE (S)	978	-	379351 416103
212	Registered Landfill Sites Licence Holder: Irwell Metal Co Licence Reference: 00009/76/M1 Site Location: Near Mill Lodge (East Of Railway Line), Railway Street, Ramsbottom, Bury, Lancashire Licence Easting: 379320 Licence Northing: 416650 Operator Location: Irwell Street, RAMSBOTTOM, Lancashire, BL0 9AS Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 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: Construction And Demolition Wastes	A8NE (SE)	456	2	379320 416650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Registered Waste Transfer Sites Licence Holder: Greater Manchester Waste Ltd Licence Reference: 00883 Site Location: Stubbins Yard C.A.Site, Stubbins Lane, Ramsbottom, Bury, Lancashire Operator Location: PO Box 151, Higher Swan Lane, BOLTON, Lancashire, BL3 3WW Authority: Environment Agency - North West Region, South Area Site Category: Civic Amenity 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: Licence Status: Licence has completion certificateSurrendered Dated: 1st February 1995 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Asbestos Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Gmwda Group 5 - Chemical/Toxic Waste Max.Waste Permitted By Licence Prohibited Waste: Acid Tars Clinical - Grp A As In Hse '92 Distillation Residues Dyestuffs Waste Foundry Sand Incinerator Residues Industrial Effluent Treatment Sludge Interceptor Pit Wastes Laboratory Chemicals Pharmaceuticals Polymeric Material, Products/Scrap Printing Industry Wastes/Ink Prod'Ts Of Incomplete Polymerisation Sewage Tank Cleaning Sludge Used Filter Mat'Ls/Cake/Screenings	A13NE (NE)	172	2	379200 417200
214	Registered Waste Transfer Sites Licence Holder: Irwell St. Metal Co. Ltd Licence Reference: 00255/82/M2 Site Location: Kenyon Street Works, Ramsbottom, Bury, Lancashire Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer 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: Licence Status: Record supersededSuperseded Dated: 5th December 1984 Preceded By: Not Given Licence: Superseded By: 00255/M04 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: House. + Com. Untreated Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Prohibited Waste: Waste N.O.S	A14SW (SE)	383	2	379450 416900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	Registered Waste Treatment or Disposal Sites Licence Holder: Irwell Street Metal Co Ltd Licence Reference: 00255/M04 Site Location: Kenyon Street Works, Ramsbottom, Bury, Lancashire Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer - with Baling(compaction) Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st March 1992 Preceded By: 00255/82/M2 Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Asbestos Lagging Bonded Asbestos Sheet/Piping Contaminated Rubbish/Bags/Sacks Cosmetic Products Dyestuffs Fibrous Forms Of Asbestos Filter Screenings Food Processing Wastes Food Waste Foundry Sand Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Only As Below Gmwda Group 5 - Only As Below Household In Skip Waste Industrial Effluent Treatment Sludge Inorganics Identified By Trade Name Latex, Latex/Rubber Sol'Ns/Susp'Ns Max.Waste Permitted By Licence-States Mildly Contaminated Soil Paint Ind. Waste Paint/Varnish Pharmaceutical Products Plaster Polymeric Material, Products/Scrap Prod'Ts Of Incomplete Polymerisation \$ Scrap Rubber (Including Tyres) Soaps & Detergents Synthetic Adhesive Wastes Tar, Pitch, Bitumen, Asphalts Used Filter Materials Vegetable Material Prohibited Waste Ash, Clinker Boiler Scale, Slag Explosive Waste Gas Under Pressure Incinerator Residues Liquid/Sludge Waste N.O.S. Malodorous Waste Pretreatte Waste Unless Perm'D Above Sewage Violently Reactive Wastes Waste N.O.S.	A13SE (SE)	338	2	379400 416900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Millstone Grit Group [See Also Migr]	A13NW (W)	0	1	379092 417055
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	0	1	379092 417055
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	11	1	379111 417062
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	364	1	378720 417062
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	631	1	378459 417146
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	857	1	378394 417568
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	878	1	378289 417433

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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	902	1	380000 417000
	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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	905	1	378834 417930
216	BGS Recorded Mineral Sites Site Name: Carr Location: Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93993 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Millstone Grit Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NE (W)	545	1	378540 417079
217	BGS Recorded Mineral Sites Site Name: Carr Location: Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93992 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Millstone Grit Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NE (W)	581	1	378507 417128
218	BGS Recorded Mineral Sites Site Name: Stony Bank Location: Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93994 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Millstone Grit Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SE (W)	668	1	378431 416915
219	BGS Recorded Mineral Sites Site Name: Stubbin House Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93975 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	750	1	378980 417803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	BGS Recorded Mineral Sites Site Name: Higher Barn Location: Holcombe, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15300 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rough Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SW (W)	791	1	378295 417015
221	BGS Recorded Mineral Sites Site Name: Fletcher Bank Quarry Location: Shuttleworth, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15030 Type: Opencast Status: Ceased Operator: United Gravel Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Fletcher Bank Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	962	1	380055 417170
222	BGS Recorded Mineral Sites Site Name: Lower Leeches Location: Stubbins, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 93972 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Midgley Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	996	1	379639 417898
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (W)	0	9	379092 417055
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (W)	0	-	379092 417055
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	69	1	379169 417067
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	69	1	379169 417067
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	379164 417168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	379090 417054
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	13	1	379071 417060
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	31	1	379129 417070
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	53	1	379114 416997
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	56	1	379091 417116
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	379090 417054
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	69	1	379169 417067
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	246	1	378883 416909
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	379092 417055
	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	A13NW (W)	0	1	379092 417055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
223	Contemporary Trade Directory Entries Name: Formbys Location: 19-21, Market Place, Ramsbottom, BURY, Lancashire, BL0 9AJ Classification: Bookbinding & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	25	-	379072 417028
224	Contemporary Trade Directory Entries Name: J P Motors Location: Paradise Street, Ramsbottom, Bury, Lancashire, BL0 9BS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	60	-	379148 417018
224	Contemporary Trade Directory Entries Name: A Clayton Location: 10, Paradise Street, Ramsbottom, Bury, Lancashire, BL0 9BS Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	65	-	379134 416994
224	Contemporary Trade Directory Entries Name: Robert Mather Ltd Location: Crow Lane, Ramsbottom, Bury, Lancashire, BL0 9BR Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	96	-	379165 416980
225	Contemporary Trade Directory Entries Name: Car Medic Location: 47, Bridge Street, Ramsbottom, Bury, Lancashire, BL0 9AD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	95	-	379093 416953
225	Contemporary Trade Directory Entries Name: Bridge Savers Location: 66, Bridge Street, Ramsbottom, Bury, Lancashire, BL0 9AG Classification: Toiletries Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	125	-	379105 416922
225	Contemporary Trade Directory Entries Name: Abicus Office Systems Location: 3a, Smithy Street, Ramsbottom, Bury, Lancashire, BL0 9AT Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	151	-	379068 416899
226	Contemporary Trade Directory Entries Name: A1 Appliances Location: Crow Lane Works, Crow Lane, Ramsbottom, Bury, Lancashire, BL0 9BR Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	98	-	379186 417108
226	Contemporary Trade Directory Entries Name: Russo Engineering Ltd Location: Crow Lane Works, Crow Lane, Ramsbottom, BURY, Lancashire, BL0 9BR Classification: Wrought Ironwork Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	98	-	379186 417108
227	Contemporary Trade Directory Entries Name: Design Drafting Services Location: 4, Carr Street, Ramsbottom, Bury, Lancashire, BL0 9AE Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	108	-	378986 417006
228	Contemporary Trade Directory Entries Name: Platinum Blinds Location: 6, Pinners Close, Ramsbottom, Bury, BL0 9LP Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	112	-	378972 417062
229	Contemporary Trade Directory Entries Name: Ramsbottom Stoves Location: 12, Bolton Street, Ramsbottom, Bury, BL0 9HX Classification: Woodburning Stoves Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	128	-	379026 416936

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	Contemporary Trade Directory Entries Name: Dine At Home Location: 15, Bolton Street, Ramsbottom, BURY, BL0 9HU Classification: Tableware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	139	-	379052 416914
229	Contemporary Trade Directory Entries Name: Cooks Emporium Location: 22, Bolton Street, Ramsbottom, Bury, Lancashire, BL0 9HX Classification: Cookers - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	152	-	379020 416912
230	Contemporary Trade Directory Entries Name: D & D Roofing Location: 2, Crow Lane, Ramsbottom, BURY, Lancashire, BL0 9BR Classification: Fascias and Soffits Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	129	-	379187 416956
231	Contemporary Trade Directory Entries Name: Trade Frames Direct Location: Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Classification: Window Frames - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	165	-	379237 417153
231	Contemporary Trade Directory Entries Name: Ramsbottom Glass Location: Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Classification: Window Frames - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	165	-	379237 417153
232	Contemporary Trade Directory Entries Name: First Impression Location: 44, Bridge Street, Ramsbottom, Bury, Lancashire, BL0 9AQ Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	167	-	379163 416895
232	Contemporary Trade Directory Entries Name: Woodholme Supplies Location: 40-42, Bridge Street, Ramsbottom, Bury, BL0 9AQ Classification: Hardware Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	175	-	379169 416888
233	Contemporary Trade Directory Entries Name: Ramsbottom Location: Garden St, Ramsbottom, Bury, Lancashire, BL0 9BG Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	184	-	379278 417012
233	Contemporary Trade Directory Entries Name: Joshua Greaves & Sons Ltd Location: Garden Street, Ramsbottom, Bury, Lancashire, BL0 9BG Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	187	-	379277 416998
234	Contemporary Trade Directory Entries Name: Orbital Design Location: 3, Princes Court, Silver Street, Ramsbottom, Bury, Lancashire, BL0 9BJ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	185	-	379123 416864
235	Contemporary Trade Directory Entries Name: Ramsbottom Stoves & Chimney Linings Location: 42, Bolton Street, Ramsbottom, Bury, Lancashire, BL0 9HX Classification: Woodburning Stoves Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	201	-	379017 416860
236	Contemporary Trade Directory Entries Name: Ramsbottom Engineering Ltd Location: Garden Street, Ramsbottom, Bury, Lancashire, BL0 9BG Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	216	-	379315 417060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
236	Contemporary Trade Directory Entries Name: P & R Pristine Bakery Services Location: Garden Street, Ramsbottom, Bury, Lancashire, BL0 9BG Classification: Bakery Equipment Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	216	-	379315 417060
237	Contemporary Trade Directory Entries Name: Chem-Dry Cascade Location: 21, Union Street, Ramsbottom, Bury, Lancashire, BL0 9AN Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	218	-	379180 416846
237	Contemporary Trade Directory Entries Name: Screenway Design Location: 21, Union Street, Ramsbottom, Bury, Lancashire, BL0 9AN Classification: Screen Process Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	218	-	379180 416846
237	Contemporary Trade Directory Entries Name: Chem-Dry Cascade Location: 21, Union Street, Ramsbottom, Bury, Lancashire, BL0 9AN Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	218	-	379180 416846
237	Contemporary Trade Directory Entries Name: Brierley Mould Services Location: 21, Union Street, Ramsbottom, Bury, Lancashire, BL0 9AN Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	218	-	379180 416846
237	Contemporary Trade Directory Entries Name: Chem Dry Location: 21, Union Street, Ramsbottom, Bury, Lancashire, BL0 9AN Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	218	-	379180 416846
238	Contemporary Trade Directory Entries Name: Formulated Polymer Products Ltd Location: 8, Garden Street, Ramsbottom, Bury, Lancashire, BL0 9BQ Classification: Adhesives, Glues & Sealants Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	219	-	379267 416911
239	Contemporary Trade Directory Entries Name: Siandratti Furniture Location: 1, Cross Street, Ramsbottom, Bury, Lancashire, BL0 9DZ Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	249	-	379087 416798
239	Contemporary Trade Directory Entries Name: Ben-Tex Engineering Location: Square Street, Ramsbottom, BURY, BL0 9BE Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	281	-	379117 416767
239	Contemporary Trade Directory Entries Name: Irwell Works Brewery Location: Irwell Street, Ramsbottom, BURY, Lancashire, BL0 9YQ Classification: Brewery Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	281	-	379117 416767
240	Contemporary Trade Directory Entries Name: Esso Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PU Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	256	-	379211 417291
240	Contemporary Trade Directory Entries Name: Esso Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	256	-	379211 417291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	Contemporary Trade Directory Entries Name: Ramsbottom Service Station Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PU Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	256	-	379211 417291
240	Contemporary Trade Directory Entries Name: Ramsbottom Plumbing & Heating Location: 31, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PU Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	268	-	379170 417319
240	Contemporary Trade Directory Entries Name: Tower Crane Hire Location: 40 Stubbins La, Ramsbottom, Bury, Lancashire, BL0 0PT Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	271	-	379190 417316
241	Contemporary Trade Directory Entries Name: S & S Preparations Location: Oakdene Service Station, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PT Classification: Classic Car Specialists Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (NE)	262	-	379278 417252
242	Contemporary Trade Directory Entries Name: Station Garage Location: Railway Street, Ramsbottom, Bury, BL0 9AL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	268	-	379262 416837
242	Contemporary Trade Directory Entries Name: East Lancashire Railway Location: Ramsbottom Railway Station, Railway Street, Ramsbottom, Bury, BL0 9AL Classification: Railways Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	305	-	379285 416808
243	Contemporary Trade Directory Entries Name: Ross Vale Tyres & Exhausts Location: Unit 2, Harrison Street, Ramsbottom, BL0 0AH Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	291	-	379390 417032
243	Contemporary Trade Directory Entries Name: Smart Alex Location: Unit 2, Harrison Street, Ramsbottom, Bury, Lancashire, BL0 0AH Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	291	-	379390 417032
243	Contemporary Trade Directory Entries Name: S J B Auto Services Location: UNIT 2, FIELD MILL, HARRISON STREET, RAMSBOTTOM, BURY, BL0 0AH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	291	-	379390 417032
243	Contemporary Trade Directory Entries Name: C & G Wholesale Foods Ltd Location: 3, Waterside Park, Harrison Street, Ramsbottom, Bury, Lancashire, BL0 0AD Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	301	-	379395 417002
243	Contemporary Trade Directory Entries Name: Kays Ramsbottom Ltd Location: Britannia Works, Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AE Classification: Cosmetic Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	311	-	379410 417071

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
244	Contemporary Trade Directory Entries Name: Rainbow International Location: 51, Victoria Street, Ramsbottom, Bury, Lancashire, BL0 9ED Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	317	-	378870 416816
245	Contemporary Trade Directory Entries Name: Dunham Tower Cranes Ltd Location: 40 Stubbins La, Ramsbottom, Bury, Lancashire, BL0 0PT Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	323	-	379192 417370
246	Contemporary Trade Directory Entries Name: Press On Location: 85, Carr Street, Ramsbottom, BURY, Lancashire, BL0 9EG Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	330	-	378755 417028
247	Contemporary Trade Directory Entries Name: Cadden Car & Commercials Location: Peel Bridge Mill, Kenyon Street, Ramsbottom, Bury, BL0 0AB Classification: Commercial Vehicle Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	332	-	379419 416967
247	Contemporary Trade Directory Entries Name: M B Screen Printers Location: Field Mill, Kenyon St, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Screen Process Printers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	349	-	379442 416994
247	Contemporary Trade Directory Entries Name: I S M Waste & Recycling Location: Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Recycling Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (E)	367	-	379461 416997
248	Contemporary Trade Directory Entries Name: Damar Packaging Co Ltd Location: Square Street, Ramsbottom, Bury, Lancashire, BL0 9BE Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	342	-	379132 416707
249	Contemporary Trade Directory Entries Name: Ramsbottom Metalwork Location: Empire Works, Railway Street, Ramsbottom, BL0 9AL Classification: Wrought Ironwork Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	348	-	379253 416736
249	Contemporary Trade Directory Entries Name: Fedex Uk Location: Railway Street, Ramsbottom, Bury, Lancashire, BL0 9AL Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	348	-	379253 416736
249	Contemporary Trade Directory Entries Name: Empire Motor Co Location: Empire Works, Railway St, Ramsbottom, Bury, Lancashire, BL0 9AL Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	348	-	379252 416736
250	Contemporary Trade Directory Entries Name: Parker Box Co Ltd Location: Irwell Mill, Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Boxes & Cartons Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	356	-	379426 416911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
250	Contemporary Trade Directory Entries Name: Irwell Street Metal Co Ltd Location: Kenyon Street Works, Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Recycling Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14SW (SE)	385	-	379442 416877
250	Contemporary Trade Directory Entries Name: I S M Waste & Recycling Location: Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	390	-	379468 416928
250	Contemporary Trade Directory Entries Name: Ross Vale Tyre & Exhaust Services Location: Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	395	-	379464 416905
251	Contemporary Trade Directory Entries Name: Classic Carpet Location: 91, Victoria Street, Ramsbottom, Bury, Lancashire, BL0 9EB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	375	-	378906 416720
252	Contemporary Trade Directory Entries Name: Freddie's Forge Ltd Location: 5, Kenyon Street, Ramsbottom, Bury, Lancashire, BL0 0AB Classification: Gate Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	395	-	379445 416863
252	Contemporary Trade Directory Entries Name: Bury Bottles Gas Ltd Location: Unit 4 Year Gate Industrial Estate, Bury New Road, Ramsbottom, Bury, Lancashire, BL0 0BT Classification: Gas Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	435	-	379481 416844
253	Contemporary Trade Directory Entries Name: G J C Cleaning Services Location: 30, Tanners Street, Ramsbottom, Bury, Lancashire, BL0 9ES Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	399	-	378707 416923
254	Contemporary Trade Directory Entries Name: Crane Safety Systems Ltd Location: 117, Victoria Street, Ramsbottom, Bury, BL0 9EB Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	416	-	378925 416665
255	Contemporary Trade Directory Entries Name: Victorian Cast Iron Furnishings Location: 7, Coulthurst Street, Ramsbottom, Bury, Lancashire, BL0 9ET Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	438	-	378655 416972
256	Contemporary Trade Directory Entries Name: Mondi Packaging Location: Holcombe Mill, Peel Bridge, Ramsbottom, BURY, Lancashire, BL0 0BS Classification: Paper & Pulp Mills Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	441	-	379411 416739
257	Contemporary Trade Directory Entries Name: Clayton Motors Location: Unit 6, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	458	-	379113 416590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	Contemporary Trade Directory Entries Name: A L Bio Services Location: 6a, Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	460	-	379092 416587
258	Contemporary Trade Directory Entries Name: Bni (Windows) Ltd Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Window Frames - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	466	-	379169 416587
258	Contemporary Trade Directory Entries Name: Caliber Cleaning Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	466	-	379169 416587
258	Contemporary Trade Directory Entries Name: Ramsbottom Car & Commercial Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	467	-	379168 416586
258	Contemporary Trade Directory Entries Name: 1st Discounts Ltd Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	475	-	379205 416585
258	Contemporary Trade Directory Entries Name: Ramsbottom Car & Commercial Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	475	-	379205 416585
258	Contemporary Trade Directory Entries Name: Ramsbottom Tyres & Exhausts Ltd Location: Unit 1, Kay Brow Complex, Kay Brow, Ramsbottom, BL0 9AY Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	481	-	379168 416571
258	Contemporary Trade Directory Entries Name: Maddog Guitars & Customs Location: Unit 5, Kay Brow Complex, Kay Brow, Ramsbottom, BL0 9AY Classification: Musical Instrument - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	481	-	379168 416571
258	Contemporary Trade Directory Entries Name: Al-Bioservices Location: Unit 6a Kay Brow Yard, Bury, Lancashire, BL0 9AY Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (S)	486	-	379151 416564
258	Contemporary Trade Directory Entries Name: M C Motor Repairs Ltd Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	493	-	379153 416557
258	Contemporary Trade Directory Entries Name: Ramsbottom Paint & Bodyshop Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	493	-	379153 416557
258	Contemporary Trade Directory Entries Name: Ramsbottom Tyres & Exhausts Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, Lancashire, BL0 9AY Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	493	-	379153 416557

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
259	Contemporary Trade Directory Entries Name: A & J Property Maintenance Location: 57, Fern Street, Ramsbottom, Bury, Lancashire, BL0 0BB Classification: Tank Cleaning & Repairing Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	489	-	379570 417197
260	Contemporary Trade Directory Entries Name: Auto-Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	506	-	379202 417556
260	Contemporary Trade Directory Entries Name: Auto Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	506	-	379202 417556
261	Contemporary Trade Directory Entries Name: Smithie Garage Location: Spring Street, Ramsbottom, Bury, BL0 9JQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	517	-	378923 416558
262	Contemporary Trade Directory Entries Name: Cheshire Gas Location: 4, BURY NEW ROAD, RAMSBOTTOM, BURY, BL0 0BT Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	543	-	379574 416790
263	Contemporary Trade Directory Entries Name: Footsteps Location: 146, Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0PS Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	554	-	379196 417606
264	Contemporary Trade Directory Entries Name: Uk Concrete Driveway Location: 88, Fir Street, Ramsbottom, Bury, BL0 0BG Classification: Concrete Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	583	-	379664 417208
265	Contemporary Trade Directory Entries Name: Greenwood & Coope Ltd Location: Holme Mill, Ramsbottom, Bury, Lancashire, BL0 9AU Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	707	-	379208 416349
265	Contemporary Trade Directory Entries Name: Cormar Carpets Location: Holme Mill, Railway Street, Ramsbottom, Bury, BL0 9AU Classification: Carpets & Rugs - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	751	-	379192 416302
266	Contemporary Trade Directory Entries Name: The Iron Maiden Location: 196, Bolton Street, Ramsbottom, Bury, Lancashire, BL0 9JE Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	724	-	378818 416376
267	Contemporary Trade Directory Entries Name: Marlborough Cleaning & Maintenance Services Location: 34, Dundee Lane, Ramsbottom, Bury, Lancashire, BL0 9HL Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	743	-	378719 416403

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
268	Contemporary Trade Directory Entries Name: Brewsmith Beer Location: Unit 11, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Classification: Brewers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	753	-	379222 417803
268	Contemporary Trade Directory Entries Name: Oak Fabrications Location: Unit 10, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	753	-	379224 417803
268	Contemporary Trade Directory Entries Name: Burning Desire Location: Unit 9, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	753	-	379233 417802
269	Contemporary Trade Directory Entries Name: Prayon (Uk) Plc Location: 7, Carnoustie Drive, Ramsbottom, Bury, Lancashire, BL0 9QL Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	792	-	378550 416466
270	Contemporary Trade Directory Entries Name: Cool Delights Desserts Location: Cuba Ind Est, Bolton Rd North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Ice Cream Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	820	-	379217 417872
270	Contemporary Trade Directory Entries Name: Secure Industrial Doors Ltd Location: Unit 2, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Roller Shutter Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	837	-	379210 417890
270	Contemporary Trade Directory Entries Name: Reflexol Ltd Location: Unit 1, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	838	-	379220 417890
270	Contemporary Trade Directory Entries Name: Bring Cargo Ltd Location: Suite 1-3, Havannah House, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	840	-	379218 417892
270	Contemporary Trade Directory Entries Name: Alphatek Hyperformance Coatings Ltd Location: Unit 5a, Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	850	-	379253 417897
270	Contemporary Trade Directory Entries Name: Ramsbottom Accident Management Services Location: Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 ONE Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A18NE (N)	880	-	379279 417922

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
271	Contemporary Trade Directory Entries Name: Aquasure (UK) Ltd Location: 8, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9ND Classification: Swimming Pool Contractors, Repairers & Service Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	823	-	378755 416295
271	Contemporary Trade Directory Entries Name: Easi Blind Location: 8, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9ND Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	823	-	378755 416295
271	Contemporary Trade Directory Entries Name: Emf Exposure Location: 10, BOLTON ROAD WEST, RAMSBOTTOM, BL0 9ND Classification: Electronic Equipment - Manufacturers & Assemblers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (SW)	827	-	378756 416290
271	Contemporary Trade Directory Entries Name: J & M Preservation Location: 9, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9NA Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	836	-	378773 416274
271	Contemporary Trade Directory Entries Name: J & M Preservation Location: 9, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9NA Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	836	-	378773 416274
271	Contemporary Trade Directory Entries Name: Bury Print & Design Location: 20, Bolton Road West, Ramsbottom, Bury, BL0 9ND Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	850	-	378736 416274
272	Contemporary Trade Directory Entries Name: S C A Hygiene Products Tissue Ltd Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Paper & Pulp Mills Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	852	-	379053 417911
272	Contemporary Trade Directory Entries Name: Georgia Pacific Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Paper & Pulp Mills Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	852	-	379053 417911
272	Contemporary Trade Directory Entries Name: Siteserv Recycling Location: Stubbins Lane, Ramsbottom, Bury, Lancashire, BL0 0NH Classification: Recycling Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	852	-	379053 417911
273	Contemporary Trade Directory Entries Name: The Laundry Room Location: 30, Bolton Road West, Ramsbottom, Bury, Lancashire, BL0 9ND Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	883	-	378714 416248
274	Contemporary Trade Directory Entries Name: Jetchem Systems Location: Unit A11, Cuba Industrial Estate, Bolton Road North, Ramsbottom, BURY, Lancashire, BL0 0NE Classification: Blast Cleaning Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	910	-	379309 417946

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	Contemporary Trade Directory Entries Name: Fashion Master Location: 298, Bolton Road North, Ramsbottom, Bury, Lancashire, BL0 0NG Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	916	-	379205 417970
276	Contemporary Trade Directory Entries Name: Adams Autotec Ltd Location: 192, Peel Brow, Ramsbottom, Bury, Lancashire, BL0 0AX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	925	-	379994 416822
277	Contemporary Trade Directory Entries Name: Mammi'S W C Location: 13, George Road, Ramsbottom, Bury, Lancashire, BL0 9NQ Classification: Razor Blade Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	941	-	378647 416217
278	Contemporary Trade Directory Entries Name: Whalley Windows Location: 40, Manchester Road, Ramsbottom, Bury, Lancashire, BL0 0DH Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	989	-	380024 416705
279	Contemporary Trade Directory Entries Name: Ramsbottom Cottage Hospital Location: Ramsbottom Cottage Hospital, Nuttall Lane, Ramsbottom, Bury, Lancashire, BL0 9JZ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	995	-	378994 416058
280	Fuel Station Entries Name: Ramsbottom Service Station Location: Stubbins Lane , Ramsbottom , Bury, Greater Manchester, BL0 0PU Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A13NE (NE)	256	-	379211 417291
281	Fuel Station Entries Name: Station Garage Location: Railway Street , Ramsbottom , Bury, Greater Manchester, BL0 9AL Brand: Unbranded Premises Type: Petrol Station Status: Closed Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	268	-	379262 416837
282	Points of Interest - Commercial Services Name: Car Medic Location: 47 Bridge Street, Ramsbottom, Bury, BL0 9AD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	95	10	379093 416953
282	Points of Interest - Commercial Services Name: Car Medic Car Body Repair Location: 47 Bridge Street, Ramsbottom, Bury, BL0 9AD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	95	10	379093 416953
283	Points of Interest - Commercial Services Name: Russo Engineering Ltd Location: Crow Lane Works, Crow Lane, Ramsbottom, BL0 9BR Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13NE (NE)	98	10	379186 417107
283	Points of Interest - Commercial Services Name: Russo Engineering Location: Unit 3 Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13NE (NE)	165	10	379237 417153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
284	Points of Interest - Commercial Services Name: Car Wash Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NE (NE)	256	10	379211 417291
284	Points of Interest - Commercial Services Name: Ramsbottom Service Station Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NE (NE)	281	10	379227 417311
285	Points of Interest - Commercial Services Name: The Olde Forge Location: 20 Rostron Road, Ramsbottom, Bury, BL0 9EE Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SW (W)	268	10	378835 416956
285	Points of Interest - Commercial Services Name: The Olde Forge Location: 20 Rostron Road, Ramsbottom, Bury, BL0 9EE Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SW (W)	268	10	378835 416956
286	Points of Interest - Commercial Services Name: Station Garage Location: Railway Street, Ramsbottom, Bury, BL0 9AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	268	10	379262 416837
286	Points of Interest - Commercial Services Name: Station Garage Location: Railway Street, Ramsbottom, BL0 9AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	268	10	379262 416837
287	Points of Interest - Commercial Services Name: S J B Auto Services Location: Unit 2 Field Mill, Harrison Street, Ramsbottom, BL0 0AH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	291	10	379389 417032
287	Points of Interest - Commercial Services Name: 9Apart Location: Unit 3-4 Field Mill, Harrison Street, Ramsbottom, Bury, BL0 0AH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (E)	310	10	379410 417070
288	Points of Interest - Commercial Services Name: Ramsbottom Metalwork Location: Empire Garage, Irwell Street, Ramsbottom, BL0 9AL Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	345	10	379233 416731
288	Points of Interest - Commercial Services Name: Empire Motor Co Location: Empire Works, Railway St, Ramsbottom, Bury, Lancashire, BL0 9AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	348	10	379252 416736
288	Points of Interest - Commercial Services Name: Empire Motor Co Location: Empire Works, Railway Street, Ramsbottom, Bury, Lancashire, BL0 9AL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	348	10	379252 416736
289	Points of Interest - Commercial Services Name: I S M Waste & Recycling Location: Kenyon Street, Ramsbottom, Bury, BL0 0AB Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	356	10	379453 417019

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
289	Points of Interest - Commercial Services Name: Irwell Street Metal Co Ltd Location: Kenyon Street Works, Kenyon Street, Ramsbottom, Bury, BL0 0AB Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	363	10	379461 417022
289	Points of Interest - Commercial Services Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	381	10	379463 416942
290	Points of Interest - Commercial Services Name: Mc Motor Repairs Ltd Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	466	10	379169 416587
290	Points of Interest - Commercial Services Name: Ramsbottom Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	466	10	379169 416587
290	Points of Interest - Commercial Services Name: Ramsbottom Paint & Bodyshop Location: Unit 3 Kay Brow Complex, Kay Brow, Ramsbottom, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	468	10	379157 416583
290	Points of Interest - Commercial Services Name: Ramsbottom Paint & Bodyshop Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	493	10	379153 416557
290	Points of Interest - Commercial Services Name: M Collings Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	493	10	379153 416557
290	Points of Interest - Commercial Services Name: M C Motor Repairs Ltd Location: Kay Brow Yard, Kay Brow, Ramsbottom, Bury, BL0 9AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	494	10	379153 416557
291	Points of Interest - Commercial Services Name: Auto Rescue 1990 Ltd Location: Stubbins Lane Mill, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	506	10	379202 417556
292	Points of Interest - Commercial Services Name: Smithie Garage Location: Spring Street, Ramsbottom, Bury, BL0 9JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	517	10	378923 416558
292	Points of Interest - Commercial Services Name: Smithie Garage Location: Caltha Street, Ramsbottom, BL0 9JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	519	10	378922 416556
293	Points of Interest - Commercial Services Name: Fedex UK Location: Tnt Express UK Ltd Crow and Meadow Mills, Railway Street, Ramsbottom, BL0 9AL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (S)	570	10	379238 416495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
294	Points of Interest - Commercial Services Name: Valeting Technik Location: 58 Bury New Road, Ramsbottom, Bury, BL0 0BY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NW (SE)	808	10	379766 416596
294	Points of Interest - Commercial Services Name: Valeting Technik Location: 58 Bury New Road, Ramsbottom, Bury, BL0 0BY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NW (SE)	808	10	379766 416596
295	Points of Interest - Commercial Services Name: TNT Express Location: Unit 10a Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NE (N)	814	10	379296 417851
296	Points of Interest - Commercial Services Name: Michael Kenyon Location: Unit A2 Cuba Industrial Estate, Bolton Road North, Ramsbottom, Bury, BL0 ONE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	886	10	379227 417937
297	Points of Interest - Commercial Services Name: Adams Autotec Ltd Location: 192 Peel Brow, Ramsbottom, BL0 0AX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	925	10	379994 416822
297	Points of Interest - Commercial Services Name: Bennett's M O T & Service Centre Location: Unit 1 Fletcher Bank Garage, Manchester Road, Ramsbottom, Bury, BL0 0DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	987	10	380047 416780
298	Points of Interest - Education and Health Name: Ramsbottom Cottage Hospital Location: Ramsbottom Cottage Hospital, Nuttall Lane, Ramsbottom, Bury, BL0 9JZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A8SW (S)	995	10	378994 416058
298	Points of Interest - Education and Health Name: Ramsbottom Cottage Hospital Location: Ramsbottom Cottage Hospital, Nuttall Lane, Ramsbottom, Bury, BL0 9JZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A8SW (S)	995	10	378994 416058
299	Points of Interest - Manufacturing and Production Name: Xerkon Industries Ltd Location: Unit 2 Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NE (NE)	98	10	379186 417108
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	98	10	379187 417106
299	Points of Interest - Manufacturing and Production Name: Xerkon Industries Ltd Location: Unit 2 Ramsbottom Mill, Crow Lane, Ramsbottom, BL0 9BR Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NE (NE)	98	10	379186 417108

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
299	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	98	10	379187 417106
299	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	126	10	379224 417081
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	131	10	379229 417082
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	141	10	379215 417142
299	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13NE (NE)	142	10	379212 417148
299	Points of Interest - Manufacturing and Production Name: Lancashire Stone Cutters Location: Unit 3 Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NE (NE)	165	10	379237 417153
299	Points of Interest - Manufacturing and Production Name: Architectural Stone Location: Unit 3 Ramsbottom Mill, Crow Lane, Ramsbottom, Bury, BL0 9BR Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NE (NE)	165	10	379237 417153
299	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	172	10	379262 417118
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	177	10	379267 417119
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	213	10	379286 416951
300	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	237	10	379283 416902
301	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	218	10	379314 417103

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
301	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	224	10	379319 417104
302	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	267	10	379241 416823
302	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	267	10	379241 416823
303	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	282	10	379116 416766
303	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	282	10	379116 416766
304	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	288	10	379385 417019
304	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	315	10	379408 416994
304	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	319	10	379412 416995
304	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	321	10	379415 417001
305	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	315	10	379404 417141
305	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	320	10	379409 417142
306	Points of Interest - Manufacturing and Production Name: Empire Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	356	10	379255 416729

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
306	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	356	10	379250 416726
307	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	419	10	379431 416795
308	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	420	10	379359 416720
308	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	420	10	379359 416720
309	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	449	10	379198 417499
310	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	468	10	379170 416585
311	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	469	10	379215 417515
311	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	469	10	379215 417515
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	489	10	379309 417502
311	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	501	10	379308 417516
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	508	10	379336 417510
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	508	10	379298 417528

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	511	10	379319 417522
311	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	531	10	379284 417559
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	534	10	379345 417535
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	537	10	379332 417545
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	541	10	379303 417562
311	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	541	10	379352 417539
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	542	10	379364 417534
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	543	10	379334 417550
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (N)	544	10	379278 417574
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	546	10	379336 417553
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	548	10	379349 417549
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	548	10	379352 417547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	549	10	379346 417551
311	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18SE (NE)	552	10	379338 417558
312	Points of Interest - Manufacturing and Production Name: Factory Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	504	10	378918 416573
313	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9NW (SE)	516	10	379481 416704
314	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	697	10	379108 417757
314	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NE (N)	704	10	379104 417764
314	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NE (N)	718	10	379105 417778
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	744	10	379090 417804
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	744	10	379091 417804
315	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	755	10	379083 417815
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	760	10	379076 417820
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	768	10	379075 417828

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	781	10	379019 417838
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	782	10	379005 417838
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	789	10	379009 417846
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	790	10	379034 417849
315	Points of Interest - Manufacturing and Production Name: Tanks Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	791	10	379020 417849
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	793	10	379046 417852
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	793	10	379054 417853
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	794	10	379019 417852
315	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	797	10	379008 417854
316	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BL8 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SW (W)	767	10	378319 417004
316	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: BL8 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	787	10	378298 417018
317	Points of Interest - Manufacturing and Production Name: Cuba Industrial Estate Location: BL0 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	818	10	379217 417870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
318	Points of Interest - Manufacturing and Production Name: N Cryer Location: Woodhill Farm, Spring Street, Ramsbottom, Bury, BL0 0DS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NE (E)	878	10	379924 417362
318	Points of Interest - Manufacturing and Production Name: N Cryer Location: Spring Street, Ramsbottom, Bury, BL0 0DS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NE (E)	879	10	379925 417363
318	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14NE (E)	895	10	379948 417347
319	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	884	10	378976 417938
320	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	893	10	379289 417933
320	Points of Interest - Manufacturing and Production Name: Works Location: BL0 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	896	10	379288 417936
321	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	952	10	378785 416146
321	Points of Interest - Manufacturing and Production Name: Tank Location: BL0 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	984	10	378729 416132
322	Points of Interest - Public Infrastructure Name: R T K Grab Hire Location: 32 Crow Lane, Ramsbottom, Bury, BL0 9BR Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13SE (E)	108	10	379204 417032
323	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	202	10	378883 417050
323	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	204	10	378881 417050
324	Points of Interest - Public Infrastructure Name: Ramsbottom Police Station Location: Bridge Street, Ramsbottom, Bury, BL0 9AD Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	202	10	379235 416900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
325	Points of Interest - Public Infrastructure Name: Ramsbottom Service Station Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	255	10	379210 417290
325	Points of Interest - Public Infrastructure Name: Ramsbottom Service Station Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	256	10	379211 417291
325	Points of Interest - Public Infrastructure Name: Esso Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	256	10	379211 417291
325	Points of Interest - Public Infrastructure Name: Esso Location: Oakdene Service Station, Stubbins Lane, Ramsbottom, BL0 OPT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	256	10	379211 417291
325	Points of Interest - Public Infrastructure Name: Ramsbottom Service Station Location: Stubbins Lane, Ramsbottom, Bury, BL0 0PU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	256	10	379211 417291
326	Points of Interest - Public Infrastructure Name: Station Garage Location: Railway Street, Ramsbottom, Bury, BL0 9AL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	268	10	379262 416837
326	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	327	10	379352 416844
326	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	330	10	379357 416845
326	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	350	10	379380 416843
326	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	352	10	379379 416838
326	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	366	10	379393 416833
327	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	316	10	378822 417236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
327	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	317	10	378820 417236
328	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	344	10	379391 416871
328	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	345	10	379391 416869
328	Points of Interest - Public Infrastructure Name: Irwell Street Metal Co Ltd Location: Kenyon Street, Ramsbottom, Bury, BL0 0AB Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	390	10	379468 416928
328	Points of Interest - Public Infrastructure Name: I S M Waste & Recycling Location: Ism Waste and Recycling, Kenyon Street, Ramsbottom, BL0 0AB Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	390	10	379468 416928
329	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A18SE (N)	506	10	379202 417556
329	Points of Interest - Public Infrastructure Name: Ramsbottom Fire Station Location: Fire Station, Stubbins Lane, Ramsbottom, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A18SE (N)	506	10	379202 417556
329	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Stubbins Lane, Ramsbottom, Bury, BL0 0PS Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A18SE (N)	506	10	379202 417556
330	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	660	10	379142 416389
330	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	667	10	379132 416381
331	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	770	10	378802 417777
331	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	770	10	378807 417779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	770	10	378889 417805
332	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	825	10	379773 417537
332	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	828	10	379777 417537
333	Points of Interest - Public Infrastructure Name: Site Serv Ltd Location: Stubbins Lane, Ramsbottom, Bury, BL0 0NH Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A18NW (N)	852	10	379053 417911
334	Points of Interest - Public Infrastructure Name: Sluice Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	875	10	378922 417920
335	Points of Interest - Public Infrastructure Name: Recycling Centre Location: Whalley Road, BL0 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A14SE (E)	900	10	379998 417010
336	Points of Interest - Public Infrastructure Name: Weir Location: BL0 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	975	10	379382 417994
337	Points of Interest - Recreational and Environmental Name: Skateboard Park Location: Porritt Way, BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (NE)	305	10	379313 417279
337	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	324	10	379296 417318
337	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Porritt Way, BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (NE)	337	10	379294 417336
338	Points of Interest - Recreational and Environmental Name: Play Area Location: BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	477	10	379576 417082
339	Points of Interest - Recreational and Environmental Name: Play Area Location: BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	838	10	379934 417134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
340	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	901	10	379485 416234
340	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Nuttall Hall Road, BL0 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	933	10	379551 416233

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
341	Ancient Woodland Name: Not Supplied Reference: 1415985 Area(m²): 7700.63 Type: Plantation on Ancient Woodland	A18NW (N)	727	11	378863 417753
342	Ancient Woodland Name: Not Supplied Reference: 1415986 Area(m²): 1137.12 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	831	11	378660 417775
343	Ancient Woodland Name: Not Supplied Reference: 1415987 Area(m²): 4848.71 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	879	11	378624 417809
344	Ancient Woodland Name: Not Supplied Reference: 1415988 Area(m²): 16563.11 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	917	11	378574 417822
345	Areas of Adopted Green Belt Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan Status: Adopted Plan Date: 29th August 1997	A13NW (NW)	276	7	378832 417171
346	Areas of Adopted Green Belt Authority: Rossendale Borough Council, Planning Department Plan Name: Proposal Map Status: Adopted Plan Date: 9th November 2011	A18SE (N)	608	12	379118 417668
347	Areas of Adopted Green Belt Authority: Rossendale Borough Council, Planning Department Plan Name: Proposal Map Status: Adopted Plan Date: 9th November 2011	A18SE (N)	608	12	379118 417668
348	Sites of Special Scientific Interest Name: Lower Red Lees Pasture Multiple Areas: N Total Area (m2): 40182.59 Source: Natural England Reference: 1006305 Designation Details: Site Of Special Scientific Interest Designation Date: 8th March 1994 Date Type: Notified	A18NW (N)	800	11	378867 417830
349	Sites of Special Scientific Interest Name: West Pennine Moors Multiple Areas: Y Total Area (m2): 76154904.66 Source: Natural England Reference: 2000830 Designation Details: Common Land Designation Date: 17th November 2016 Date Type: Notified Designation Details: Ministry Of Defence Reserve Designation Date: 17th November 2016 Date Type: Notified Designation Details: National Trust Reserve Designation Date: 17th November 2016 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 17th November 2016 Date Type: Notified Designation Details: Woodland Trust Reserve Designation Date: 17th November 2016 Date Type: Notified	A12SW (W)	834	11	378255 416973

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Rossendale Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	November 2023 October 2017 October 2017 September 2017 September 2017 September 2017	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	January 2024	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control Blackburn with Darwen Borough Council - Environmental Health Department 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	February 2015 February 2015 July 2014 July 2014 May 2016	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 July 2014 May 2016	Not Applicable Not Applicable Annual Rolling Update Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Blackburn with Darwen Borough Council - Environmental Health Department 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	February 2015 February 2015 July 2014 July 2014 May 2016	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	February 2024	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region Environment Agency - Head Office	June 2016 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	

Agency & Hydrological	Version	Update Cycle
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	January 2024 January 2024 January 2024	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	October 2023	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	July 2023	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	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	January 2024 January 2024 January 2024	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	January 2023 January 2023 January 2023	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	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	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	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	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	April 2018 April 2018 April 2018	
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	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Lancashire County Council Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	April 2023 February 2016 February 2016 February 2016 May 2023 May 2023	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2024	Quarterly
Points of Interest - Education and Health PointX	March 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2024	Quarterly
Points of Interest - Public Infrastructure PointX	March 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2024	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2023	Bi-Annually
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	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
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	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	February 2024	Bi-Annually
Marine Nature Reserves Natural England	February 2024	Bi-Annually
National Nature Reserves Natural England	February 2024	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural England	February 2024	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2023	Bi-Annually
Special Areas of Conservation Natural England	October 2023	Bi-Annually
Special Protection Areas Natural England	October 2023	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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 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	Rossendale Borough Council - Environmental Health Department Town Hall, Rawtenstall, Rossendale, Lancashire, BB4 7LZ	Telephone: 01706 217777 Fax: 01706 224958 Website: www.rossendale.gov.uk
5	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.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	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
9	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	Rossendale Borough Council - Planning Department Town Hall, Rawtenstall, Lancashire, BB4 7LZ	Telephone: 01706 217777 Fax: 01706 224958 Website: www.rossendale.gov.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.

APPENDIX G

Coal Authority CON29 Coal Mining Report



The Coal
Authority

CON29M

coal mining report

CARR BANK LODGE, RAMSBOTTOM, BURY, GREATER MANCHESTER, BL0 9BY



Known or potential coal mining risks

Future underground coal mining

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Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **339192756_2**
Our reference: **51003411600001**
Date: **14 March 2024**

Client name:
NLIS Hub

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

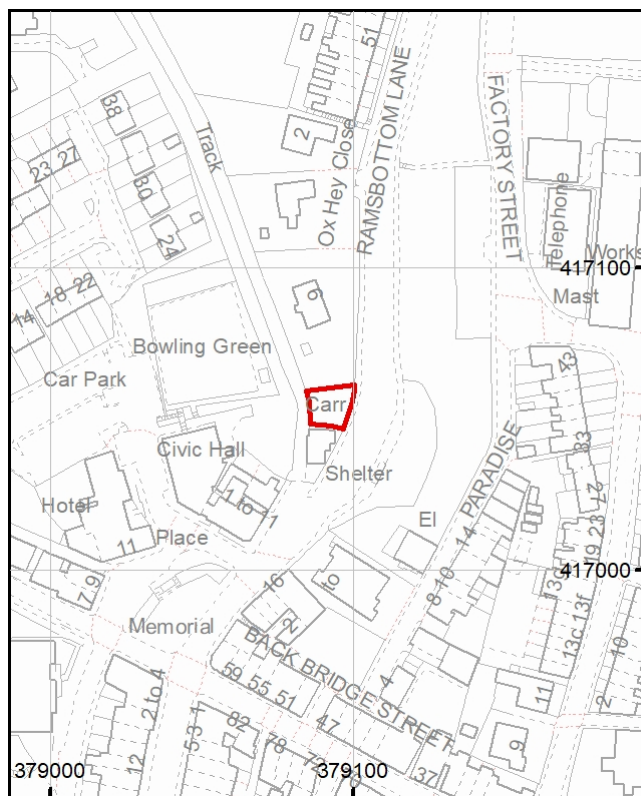


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion



Future development

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

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

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on **0345 762 6848** or email **cmra@coal.gov.uk**.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

The Coal Authority owns the copyright in this report and the information used to produce this report is protected by our database rights. 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.

1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

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

The property is not in an area likely to be affected from any planned future underground coal mining.

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

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

4 Mine entries

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

5 Coal mining geology

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

6 Past opencast coal mining

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

7 Present opencast coal mining

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

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

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.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

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

12 Withdrawal of support

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

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

13 Working facilities order

The property is not in an area where 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.

14 Payments to owners of former copyhold land

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

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **0800 288 4242**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

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

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings