BOOTH KING PARTNERSHIP LIMITED

SIEMENS HOUSE,
PRINCESS ROAD, MANCHESTER, M20 2UR

PRELIMINARY INVESTIGATION REPORT

Contract: W15/41787-1

Date: December 2015

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PRELIMINARY INVESTIGATION REPORT

carried out at

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PRINCESS ROAD, MANCHESTER, M20 2UR

Prepared for

BOOTH KING PARTNERSHIP LIMITED
9c Bridge Street
Ramsbottom
Bury
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EXECUTIVE SUMMARY

On the instructions of Booth King Partnership Limited a Preliminary Investigation in the form of a desk study and site reconnaissance has been carried out in order to assess the potential hazards on and adjacent to the site and prepare a risk assessment for further consideration.

The site is situated to the east of Princess Road, approximately 8.5 km to the south, of the town centre of Manchester and may be located by Grid Reference SJ 834922.

The site comprised extensive areas of grass and hardstanding with commercial buildings to the north, east and south.

The geological map indicates the site to be underlain by Glaciofluvial Deposits comprising sand and gravel. These superficial deposits are underlain by Wilmslow Sandstone Formation. Both are classified by the Environment Agency as Principal Aquifers although the site is not within a Groundwater Source Protection Zone.

The earliest edition of mapping form 1848 shows the site to be part of fields. The eastern part of the site became a school by 1894 and subsequently Chorlton Union Workhouse. The majority of the site remained undeveloped until the 1950s when it became a playing field. By the 1990s, the site was redeveloped to attain its current layout. The surrounding area was predominantly semi-rural since the earliest edition of mapping. Chorlton Union Workhouse was constructed to the northeast o of the site by 1894 which subsequently became Withington Hospital. The vicinity has become increasingly more developed since the early twentieth century.

The research has identified the following potential sources of contamination which may form part of a pollutant linkage:

- Contamination associated with Made Ground due to previous development on-site
- Contamination associated with off-site sources e.g.; hospital

It is recommended that a number of exploratory holes are sunk for the recovery of samples for geotechnical and chemical contamination analysis. At the same time, standpipes should be installed for the monitoring of groundwater and gas.

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1.0 INTRODUCTION

1.1 General

1.1.1 On the instructions of Booth King Partnership Limited a Preliminary Investigation in the form of a desk study and site reconnaissance has been carried out in order to assess the potential hazards on and adjacent to the site and prepare a risk assessment for further consideration.

1.1.2 It is understood that it is proposed to develop the site for mixed use development, comprising of residential and commercial development.

1.1.3 This report has been prepared for the sole use of the Client for the purpose described and no extended duty of care to any third party is implied or offered. Third parties using any information contained within this report do so at their own risk.

1.1.4 It is recommended that a copy of this report be submitted to the relevant authorities to enable them to carry out their own site assessment and provide any comments.

1.1.5 The comments given in this report and the opinions expressed herein are based on the information obtained from the desk study and site reconnaissance. No intrusive investigation has been carried out to confirm the actual ground or environmental conditions.

1.1.6 Any risks identified in this report are perceived risks based on information reviewed. Actual risks can only be assessed following a physical investigation of the site.

1.1.7 This report has been based, in part, on information supplied by others. The report has been prepared on the basis of that information being accurate.

1.1.8 The conclusions presented in this report are based on the guidance available at the time of preparation of the report. No liability can be accepted for the retrospective effects of any changes or amendments to legislation or guidance.

1.1.9 This Preliminary Investigation has been conducted in general accordance with CLR 3, ref. 8.1, CLR 11, ref 8.2, BS 10175, ref 8.3, and GPLC 1, ref 8.4.

2.0 SITE

2.1 Site Location

2.1.1 The site is situated to the east of Princess Road, approximately 8.5km to the south of the town centre of Manchester and may be located by Grid Reference SJ 834 922. A site location plan and aerial photograph are included in Appendix 1, Figures A1.1 and A1.2.

2.2 Site Walkover and Description

2.2.1 A walkover survey of the site was conducted on 2nd November 2015. The walkover was carried out in general accordance with CLR 2, ref. 8.5.

2.2.2 The site is approximately 8.61ha and is roughly rectangular in shape elongated form north to south. The site is sensibly level.

2.2.3 The site was bound to the north by Nell Lane, to the east by Withington Community Hospital, to the south by Barlow Moor Road and to the west by Princess Road.

2.2.4 At the time of the walkover survey, the site was a commercial complex; part of Siemens. The site comprised of several commercial buildings, access roads, hardstanding and grassed areas.

2.2.5 The northern part of the site was dominated by a commercial building, up to five storeys in height. This building was served by access from Nell Lane and car parking on the northeast corner of the site. A further commercial building, two storeys in height, was located to the southeast.

2.2.6 The majority of the western and central part of the site comprised grassed areas with some mature trees to the western boundary.

2.2.7 The southern part of the site comprised an active construction site.

2.2.8 The southeast part of the site comprised car parking area with a further commercial building to the southeast corner.

2.2.9 An access road linked Nell Lane with Barlow Moor Road running along the eastern side of the site.

2.2.10 The site extended to the east of this access road. Disused brick low rise buildings were located to the east of this access road with further car parking to the south of these buildings.

2.2.11 No significant visual or olfactory contamination was noted during the site walkover.

2.2.12 Photographs from the walkover survey are included within Appendix 2, Figures A2.1 to A2.20. A site plan is included in Appendix 1, Figure A1.3.

2.3 Historical Maps

2.3.1 A review of the history of the site has been conducted based on readily available historical maps. Details of the findings are provided in the table below. All maps are provided in Appendix 4.

Map, Date and Scale	Site Description	Regional Setting
Lancashire and Furness 1848 1:10 560	The site is predominantly within agricultural fields, although the southern boundary appears to fall within the east/west running Barlow Moor Lane. The northern boundary also appears to be bound by Nell Lane.	The surrounding area of the site is predominantly agricultural fields, with a few cottages and farms. 100m west of the southwestern corner of the site is New Barns. Located approximately 200m south is the River Mersey.
Lancashire and Furness 1894 1:2,500 1894 – 1895 1:10560	A footpath now runs northeast to southwest orientation on the northwestern edge of the site. There is also a track which is located in the eastern side of the site and runs northeast to southwest, where is then joins newly named Barlow Moor Road in the south. The eastern corner now has some development on the site area which is part of the school.	The northeastern area has undergone some development and a school is now bound to the northeast boundary of the site. To the north a Fever hospital can be observed with a mortuary next to it. In the southwest there is some development that has occurred. New Barns is now marked as Cemetery Farm. To the east and southeast of the site there has been major development since 1848, predominantly of residential housing with town halls. 500m north of the site there is now Manchester South District Railway Line, which travels northwest to southeast. Located approximately 250m to the northwest of the site Manchester southern cemetery which extends to 900m northwest.
Lancashire and Furness 1907 1:2,500 1908 – 1911 1:10560	No significant changes although the school is now recognised as Chorlton Union Workhouse.	More residential development has occurred in the south. The area to the east of the site is now known as West Didsbury.
Lancashire and Furness 1922 1:2,500 1923 1:10560	The development on the eastern side of the site has now extended approximately 150m south.	The hospital to the northeast has extends slightly to the north. No other significant changes.
Lancashire and Furness 1934 1:10,560	No significant changes, the footpath is no longer observed and Princess Road is now bound to the northwest boundary.	Limited data available. More development has taken place to the northeast and northwest of Manchester. To the north there are now allotment gardens and playing fields.
Lancashire	No significant changes.	More development has occurred to the south and

Map, Date and Scale	Site Description	Regional Setting
and Furness 1938 1:10,560		southwest.
Ordnance Survey Plan 1955 1:10,000 1956 1:1250	A building (Pavilion) is present to the north of the site. The buildings in the east are part of Newholme. The rest of the site is now labelled as playing fields. The workhouse is now part of Withington Hospital.	No significant changes.
Ordnance Survey Plan 1966 1:10,000	No significant changes.	No significant changes.
Ordnance Survey Plan 1981 1:10,000	The buildings in the east have been replaced by Nell Lane Court and a Depot.	No significant changes, although the railway line in the north has been dismantled. Also Newbrook School is located to the east.
Additional SIMs 1980-1989 1:1,250	No significant changes.	No significant changes.
Ordnance Survey Plan 1989 1:10,000	No significant changes.	No significant changes.
Additional SIMs 1991 1:1,250	Limited Data available The Sir William Siemens House has been developed and is located in the northern area and the track is now Siemens road. To the southwest of the site a bus station is now present.	No significant changes.
Large-Scale National Grid Data 1992 1:1,250	No significant changes.	No significant changes.
Large-Scale National Grid Data 1994 1:1,250	Limited data available. No significant changes.	No significant changes.

Map, Date and Scale	Site Description	Regional Setting
VectorMap Local 2015 1:10,000	No observable change from 1994.	The historical map appears to be substantially accurate in comparison to the current setting.

2.4 Summary

2.4.1 The earliest edition of mapping from 1848 shows the site to be part of fields. The eastern part of the site became a school by 1894 and subsequently Chorlton Union Workhouse. The majority of the site remained undeveloped until the 1950s when it became a playing field. By the 1990s, the site was redeveloped to attain its current layout.

2.4.2 The surrounding area was predominantly semi-rural since the earliest edition of mapping. Chorlton Union Workhouse was constructed to the northeast o of the site by 1894 which subsequently became Withington Hospital. The vicinity has become increasingly more developed since the early twentieth century.

3.0 SITE SETTING

3.1 Geological Setting

3.1.1 Details of the geology underlying the site have been obtained from the relevant geological map of the area, ref. **Error! Reference source not found.**.

3.1.2 The geological map indicates the site to be underlain by Glaciofluvial Deposits comprising sand and gravel. These superficial deposits are underlain by Wilmslow Sandstone Formation.

3.1.3 Although not indicated as present on the site from the geological maps, there is the possibility that Made Ground may exist on the site.

3.1.4 Local existing boreholes close to the site indicate 4.60m of sand and gravels, followed by soft to firm Boulder Clay to 12.20m based upon records provided by the British Geological Survey.

3.2 Hydrogeological Setting

3.2.1 The hydrogeological records, provided by the Environment Agency, indicate that the site overlays on a Principal Aquifer, relating to both the highly permeable Glaciofluvial Deposits and Wilmslow Sandstone Formation.

3.2.2 The Environment Agency defines Principal aquifers as 'layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale'.

3.2.3 The site is classified as being within an urban setting as designated by the Environment Agency, which therefore means that the soils are classified as having a high leaching potential.

3.2.4 Soils of high leaching potential are soils that readily transmit liquid discharges because they are either shallow or susceptible to rapid by-pass flow directly to rock, gravel or groundwater.

3.2.5 The site is not located within a groundwater source protection zone.

3.2.6 There are no groundwater abstraction wells within 500m of the site.

3.3 Hydrological Setting

3.3.1 The nearest surface watercourse is the River Mersey, located approximately 191m to the south of the site at its closest point.

3.3.2 The site is not situated within an area defined by the Environment Agency as being at risk of flooding from rivers or the sea at the extent of extreme flood.

3.3.3 The available river quality classification for the River Mersey is Grade D at 295m south. The main parameters for this classification are provided below:

GQA Grade	Environmental Quality	Chemical Parameters			Biological Parameters	
		DO (%)	BOD (mg/l)	Ammonia (mgN/l)	EQI for ASPT	EQI for no. of taxa
D	Fair	50	8	2.5	0.65	0.45
Ref: Landmark Envirocheck						

3.3.4 There are no surface water abstractions within 500m of the site, the nearest being 987m west used for spray irrigation on a golf course.

3.4 Radon

3.4.1 The British Geological Survey, in conjunction with the Radiation Protection Division of the Health Protection Agency, ref. 8.6, indicates the site to lie within an area where there is a probability of <1% of present or future homes being above the action level of 200Bq/m^3. As such, the site is not classified as a Radon Affected Area.

3.4.2 As such, no radon protective measures are deemed necessary for the proposed development. This is confirmed by the Building Research Establishment, Report BR211, ref 8.7.

3.5 Soil Geochemistry

3.5.1 The British Geological Survey data indicates the following concentrations of naturally occurring metals to be representative of background levels in natural soil underlying the site. The levels are based on those present in rural soils and are not necessarily representative of levels within Made Ground which may be encountered on site:

Element	Concentration (mg/kg)
Arsenic	15-25
Cadmium	<1.8
Chromium	60-90
Lead	300-600
Nickel	30-45

4.0 ASSESSMENT OF GEOTECHNICAL RISK

4.1 Geological Constraints

4.1.1 The following are brief findings relating to factors identified during the research from the Envirocheck data that may have a potential impact upon the engineering of the proposed development.

Potential Hazard	Assessed Risk	Comment
BGS Recorded Mineral Sites	None	
Collapsible Ground	Very low	Glaciofluvial material may be present. Such material is prone to collapse when it is loaded (as by construction of a building, for example) and then saturated by water (as by rising groundwater, for example). Collapse may cause damage to overlying property.
Compressible Ground	None	
Ground Dissolution	None	
Landslide	Very Low	The site is level
Running Sand	Very Low	Likelihood will relate to grading of sand strata below the water table.
Shrinking or Swelling Clay	None	
Unconsolidated Made Ground	Low	There is no evidence for any extensive upfilling.
Bearing Pressure	Moderate to high	Weak soils anticipated at shallow depth with potentially low bearing pressures
Aggressive conditions for construction materials	Low	Geological sequence is not anticipated to contain potentially high concentrations of sulphates and sulphides
OTHERS	Low	Possibility that old foundations/services may be present

4.2 Geotechnical Risk Assessment

4.2.1 An assessment of the main hazards associated with the site is detailed below. Unless stated otherwise, the presence of such hazards are based on information from the research or reconnaissance and have not been confirmed by an intrusive investigation.

- Soil Conditions

  Should the Glaciofluvial Deposits be of a relatively fine nature (i.e. a sand), then a high groundwater table may cause subsidence due to running sand. It is considered the risk associated with this is low to moderate.

The presence of a significant thickness of granular made ground / Glaciofluvial Deposits, particularly if they are water bearing, may cause instability in excavations for foundations or services trenches.

- Topography

  The Envirocheck data provided indicates only a very low risk of landslip subsidence.

- Previous Use

  Although historical mapping does not indicate previous development on the site, it cannot be ruled out. Therefore, the presence of buried structures such as services, basements and old foundations is a potential risk.

4.3 Conclusions of Geotechnical Risk Assessment

4.3.1 The research has identified evidence of potential hazards associated with underlying ground conditions, either natural or man-made, and therefore it is recommended that further work be carried out to confirm the presence, nature or extent of those hazards anticipated to impact on the site.

4.3.2 Whilst these hazards generally represent only a low risk to development investigation will permit design of the works to be optimised.

5.0 ENVIRONMENTAL SEARCHES

5.1 Potential Sources of Contamination

5.1.1 A search was made of records held by the various regulatory authorities and other statutory bodies to determine the presence or otherwise of past and current activities on or within 500m of the site which have the potential to give rise to the presence on site of contaminants. The findings are given in the table below:

Activity	On Site	Off Site (distance / direction)	Detail
Contaminated Land Register Entries	None	None within 500m	
Discharge Consents	None	Two at up to 250m, nine at 250-500m	Closest at 193m south, sewage effluents overflow discharge. Remainder all for surface water or sewage effluent overflow discharge
Integrated and Local Authority Pollution Prevention and Controls	None	None within 500m	
Pollution Incidents to Controlled Waters	None	Two within 300m	Closest at 228m north and one at 272m south
Prosecutions Relating to Authorised Processes or Controlled Waters	None	None within 500m	
Registered Radioactive Substances	None	Four at up to 250m	Closest at 108m northeast, all relating to University Hospital of South Manchester
Substantiated Pollution Incident Register	None	None within 500m	
Water Abstractions	None	None within 500m	
BGS Recorded Landfill Sites	None	None within 500m	
Historical Landfill Sites	None	None within 500m	
Licenced Waste Management Facilities	None	None within 500m	
Local Authority Recorded Landfill Sites	None	None within 500m	
Registered Landfill Sites	None	None within 500m	
Registered Waste Transfer Sites	None	None within 500m	
Registered Waste Treatment or Disposal Sites	None	None within 500m	

Activity	On Site	Off Site (distance / direction)	Detail
Hazardous Substances	None	None within 500m	
Explosive Sites	None	None within 500m	
Contemporary Trade Entries	Five on site	Nineteen at 108-250m, nine at 250-500m	All entries that are on site are related to Siemens. Four are currently inactive and one site is active which is used for Automation systems and equipment. Remainder relate to a wide range of commercial and retail activities commonplace in an urban setting,
Fuel Station Entries	None	Two at up to 250m and one at 284m	Closest operational site is 150m southeast, along with another two sites within 284m that are obsolete

5.2 Green Belt Areas

5.2.1 There is a designated area of Adopted Green Belt land approximately 173mm to the south of the site.

5.2.2 Green Belt Areas are generally areas that are designated as being under special consideration for development. Local Authorities may restrict the type of development, place particular planning constraints on proposed developments, or potentially restrict any development within a designated Green Belt area.

5.3 Designated Sites

5.3.1 A review of the MAGIC (MultiAgency Geographic Information for the Countryside) website, ref www.magic.gov.uk, was undertaken to assess whether there were any Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR) or Local Nature Reserves (LNR) which may be impacted by the development.

5.3.2 The enquiries indicated there are no SSSIs, NNRs or LNRs on site.

5.4 Nitrate Vulnerable Zone

5.4.1 The site is not located within an area designated as a nitrate vulnerable zone.

5.4.2 The Nitrates Directive defines a nitrate vulnerable zone as:

a) Surface freshwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l.

b) Groundwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l.

c) Natural freshwater lakes or other freshwater bodies, estuaries, coastal waters and marine waters, which are eutrophic or may become so in the near future if protective action is not taken.

5.5 Contemporary Trade Entries

5.5.1 There are four inactive contemporary trade entries and one active contemporary trade entries located within the site area. All entries that are on site are related to Siemens. The one site that is active is used for automation systems and equipment.

5.5.2 Within 250m of the site there are nineteen contemporary trade entries and nine located between 250-500m. The closest active trade entry to the site is located 108m northeast relating to Withington Hospital.

6.0 ASSESSMENT OF GEOENVIRONMENTAL RISK

6.1 General

6.1.1 The definition of 'contaminated land', along with the relevant details on legislation and guidance is set out in Appendix 3.

6.1.2 The assessment of potential risk has been based on the guidelines given in CIRIA report C552, ref 8.8. These guidelines are summarised in Appendix 3.

6.1.3 The assessment of environmental risk is aimed at identifying the possible risk, if any, arising from substances used or deposited on the site, or from any other sources of land contamination, based on the principles of the pollutant linkage.

6.1.4 The assessment is based on the proposed development end use, taking account of present and previous use. It is based only on a review of historical maps, desk based data and site reconnaissance; therefore it contains some elements of conjecture based on professional judgement. A comprehensive risk assessment can only be made following an intrusive investigation and testing regime.

6.1.5 The proposed development comprises construction of mixed development, the northern part of the site is to be residential and the southern part is a commercial development.

6.2 Potential Sources of Contamination Identified

6.2.1 The research has identified the following potential sources of contamination which may form part of a pollutant linkage:

- Contamination associated with Made Ground due to previous development on-site
- Contamination associated with off-site sources e.g.; hospital

6.3 Potential Pathways Identified

6.3.1 The research has identified a number of potential pathways which are relevant to the potential sources of contamination identified above and may form part of a pollutant linkage.

6.3.2 Those identified are detailed within the Conceptual Site Model, along with the receptors relevant to the development on a site specific basis.

6.4 Hazard Identification

6.4.1 The research has identified a number of potential sources and pathways which are considered 'likely' to be present which, taking into account the potential receptors identified, form potential pollutant linkages and have been used in the formulation of the Conceptual Site Model.

6.5 Hazard Assessment

6.5.1 An assessment of the main sources of contamination and the potential for unacceptable risk to receptors is detailed below. Unless stated otherwise, it is considered 'likely' that a potential source is present at this stage, in order to provide a preliminary estimation of the risk and therefore determine the need for further work.

- Human Health

  There is the potential for Made Ground onsite which may be a source of contamination. The risk to end-users is considered to be low.

  There is the potential for the migration onto site from contamination associated with the neighbouring hospital. The risk to end-users is considered to be low.

- Construction Material

  There is considered to be a low risk due to chemical attack on construction materials emplaced within the Made Ground.

  If PAH's are suspected to be present in any form, there is likely to be a risk to water supply pipes.

- Controlled Waters

  The site is located on a principal aquifer, albeit not within a Groundwater Source Protection Zone, and as such, any consequence of contamination to the water environment is considered to be moderate and a low risk has been assigned.

6.6 Conceptual Site Model

6.6.1 The research has therefore identified the following pollutant linkages that require further consideration and have been used to formulate the Conceptual Site Model.

Source	Potential Contaminants of Concern	Potential Pathways	Receptor Group	Risk
Made Ground	Heavy Metals PAHs TPH VOCs SVOCs Asbestos	Ingestion of contaminated soil by direct contact Ingestion of vegetables grown in contaminated soil Entry of contaminants by skin or eye contact with contaminated soils or dust Inhalation of contaminated dust Inhalation or migration of toxic / explosives gases / vapours	Humans • Site users • Construction workers • Neighbouring site users Water Environment • Groundwater • Surface Water Buildings, Materials and Services • Concrete • Plastic pipes and services	Low Negligible[1,2] Negligible[2] Low Low Low Low
Ground Gases	Methane Carbon dioxide	Migration Ingression	Humans and buildings • Gas ingress into buildings • Site occupants	Low Low
Unexploded Ordnance	-	Direct contact	Humans • Site users • Construction workers	Low Low

[1] – Assumes that PPE is worn at all times

[2] – Pathway exists only during the construction period

6.7 Conclusions of Geoenvironmental Risk Assessment

6.7.1 The research has identified evidence of potential sources of contamination on or which may impact on the site, with plausible pathways to the likely receptors, and therefore potential pollutant linkages have been suggested.

6.7.2 It is recommended that further work be carried out to confirm the presence, nature or extent of any contamination which is anticipated to impact on the site.

6.8 Consultation

6.8.1 During development, consultation may be required for a number of reasons with a number of regulatory Authorities. The following provides an indication as to the most likely Authorities with which consultation may be required:

- **Local Authority.** There may be a planning condition regarding contamination and consultation will be required with a designated Contaminated Land Officer within the Environmental Health Department. The Local Authority is generally concerned with human health risks.

- **Environment Agency.** Where a site is within a groundwater protection zone or has been designated as a special site, the Environment Agency is likely to be involved to ensure that controlled waters are protected.

- **National House Building Council, NHBC.** Section 4.1 of the NHBC Standards, ref 8.9, requires land management to be addressed. For a new housing development to be approved by the NHBC, any contamination will require remediation accompanied by a validation report.

6.8.2 Based on the results of any consultation, there may be specific investigation and/or remediation requirements imposed by one or more of the Authorities.

7.0 RECOMMENDATIONS

7.1 Further Work

7.1.1 An intrusive investigation should be undertaken to address the issues raised in Chapter 4.0 and Chapter 6.0.

7.1.2 The following scope of works is suggested in order to collect the required data:

- The sinking of exploratory holes for the recovery of samples for geotechnical and chemical contamination analysis.
- The installation and monitoring of gas and groundwater monitoring standpipes.

7.2 Other Considerations

7.2.1 There are several other areas of research which are beyond the scope of this report. All or none of the following may be applicable to the site, either on the outcome of consultation with a regulatory body or as a result of the research for this Preliminary Investigation. They include:

- **Archaeology.** Should the site be situated on or within an area of archaeological sensitivity, the advisor to the relevant local authority should be consulted. The requirement for an archaeological report may be identified within a planning condition, if appropriate, for the site.
- **Ecology.** There may be a requirement for a detailed ecological report, dependant on the type or size of the development, or due to evidence identified during the site reconnaissance or desk study. This requirement may be identified within a planning condition, or recommended within Section 7.0.
- **Unexploded Ordnance (UXO).** There may be a requirement for a UXO report, dependant on the site location, historical use and surrounding site history, as well as the type or size of the development. Areas of low potential for UXO may include rural greenfield sites, well away from any military installations; however this does not mean there is no risk in such areas. The risk increases within urban areas, particularly those with wartime installations and infrastructure (e.g. power stations, industrial centres). Clearly wartime military establishments and their close surroundings have to be classed as high risk. This requirement may be identified within a planning condition.

8.0 REFERENCES

8.1 CLR 3, '*Documentary research on industrial sites*', Report by RPS Consultants Ltd, DoE, 1994

8.2 CLR 11, '*Model Procedures for the Management of Land Contamination*' Report by Defra and the Environment Agency, 2004

8.3 BS 10175: 2011 '*Investigation of potentially contaminated sites. Code of practice*', British Standards Institute, 2011

8.4 GPLC1, '*Guiding principles for land contamination*', Environment Agency, 2010

8.5 CLR 2, '*Guidance on preliminary site inspection of contaminated land*', Report by Applied Environmental Research Centre Limited, DoE, 1994

8.6 HPA-RPD-033, '*Indicative Atlas of Radon in England and Wales*', Health Protection Agency, 2007

8.7 BR211, '*Radon: Protective measures for new dwellings*'. BRE, 2007

8.8 C552, '*Contaminated Land Risk Assessment, A Guide to Good Practice*', CIRIA, 2001

8.9 Standards, '*Land Quality – Managing Ground Conditions*', Chapter 4, NHBC, 2010

8.10 The Environmental Protection Act, Part IIA, Section 78, 1990

8.11 Environment Act 1995, Section 57, DoE, 1995

8.12 Water Environment and Water Services (Scotland) Act, 2003

8.13 Planning Policy Statement 23: Planning and Pollution Control, ODPM, 2004

8.14 Science Report SC050021/SR2, '*Human health toxicological assessment of contaminants in soil*'. Environment Agency, 2009

8.15 Science Report SC050021/SR3, '*Updated technical background to the CLEA model*'. Environment Agency, 2009

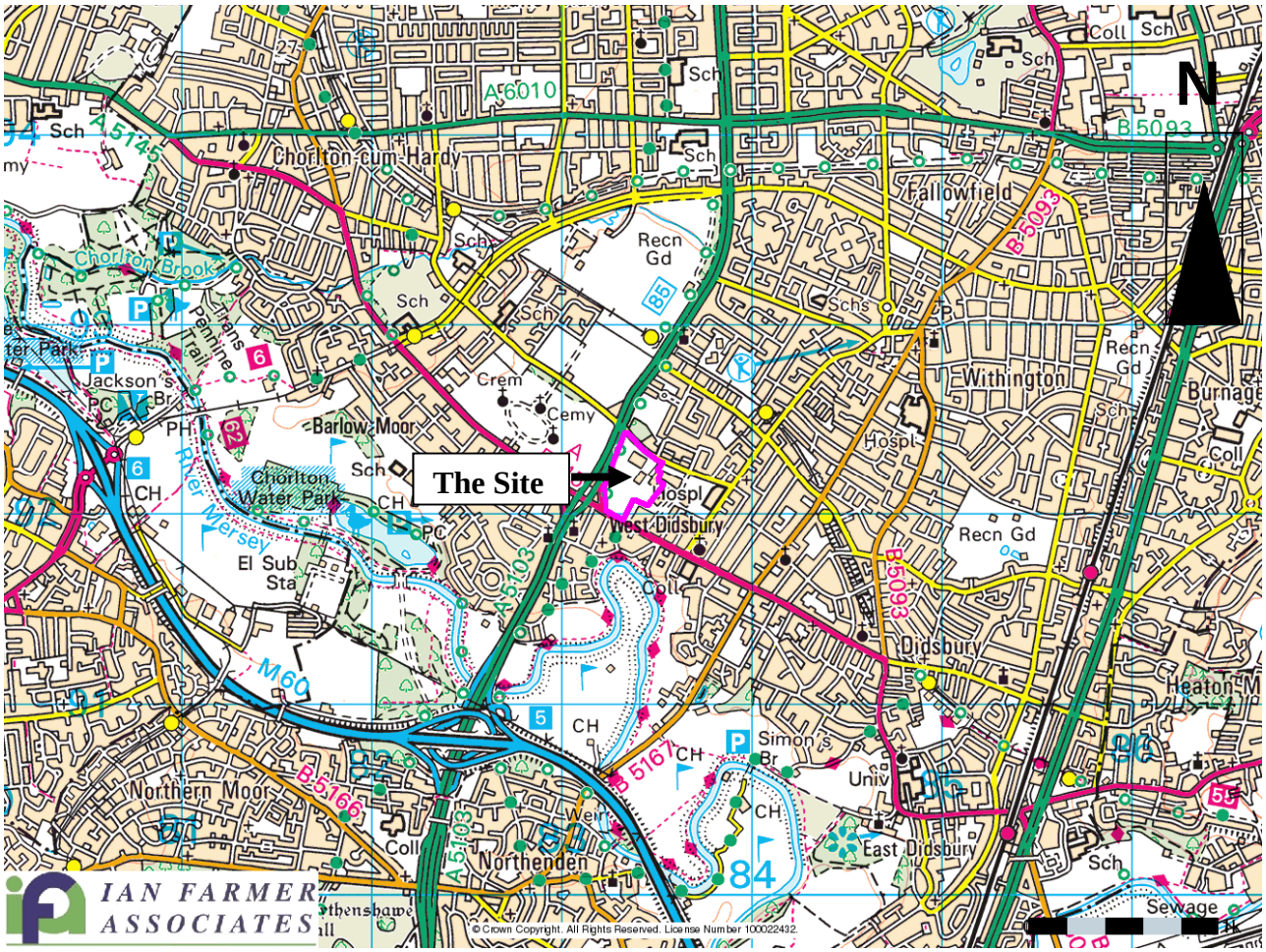
For and on behalf of Ian Farmer Associates (1998) Limited

H. Hadwin
BSc (Hons) MSc FGS
Engineering Geologist

T. J. Downes
BSc (Hons) MSc FGS
Principal Engineering Geologist

APPENDIX 1

DRAWINGS



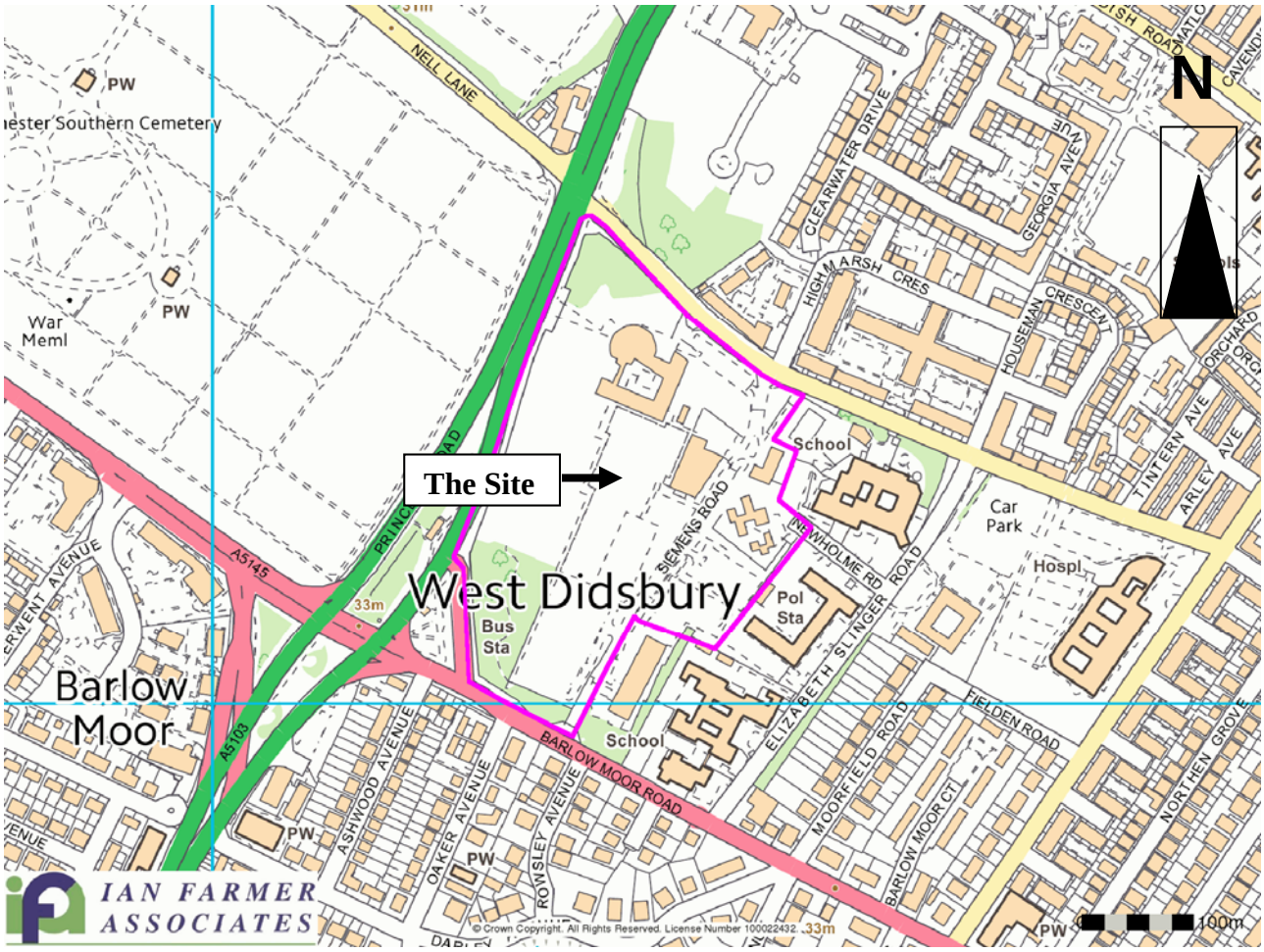
PROJECT: 41787 Siemens Development	
FIGURE No. A1.1.	**SCALE : As above**
TITLE: Site Location Plan	
IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	

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PROJECT: 41787 Siemens Development	
FIGURE No. A1.2.	**SCALE : As above**
TITLE: Aerial Photograph	
IAN FARMER ASSOCIATES Geotechnical & Environmental Specialists	

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PROJECT: 41787 Siemens Development	
FIGURE No. A1.3.	**SCALE: As above**
TITLE: Site Plan	
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APPENDIX 2

SITE WALKOVER PHOTOGRAPHS

Walkover Photographs

1. View of access to the northeast section of site.



2. View of the north section of site looking west.



Walkover Photographs

3. View of the northeast section of site looking south barriers separating north and south section of site.



4. View of the south access to site looking south.



Walkover Photographs

5. View across northern part of site looking east.



6. View of the west section of site looking north



Walkover Photographs

7. View of buildings on north of site.



8. View of buildings on north of site.



Walkover Photographs

9. View of disused buildings on west of site.



10. View of disused buildings on west of site looking north



Walkover Photographs

11. View of disused buildings on west of site



12. View of disused buildings on west of site



Walkover Photographs

13. View of disused buildings on west of site looking east



14. Building and carpark on southeast of site



Walkover Photographs

15. Construction on the south of site



16. Car park on north of site.



Walkover Photographs

17. Car park on east of site.



18. Car park on southeast of site.



Walkover Photographs

19. Car park at centre of site.



20. Car parking at centre of site



APPENDIX 3

ENVIRONMENTAL RISK

APPENDIX 3

ENVIRONMENTAL RISK ASSESSMENT

A3.1 STATUTORY FRAMEWORK AND DEFINITIONS

A3.1.1 The statutory definition of 'contaminated land' is defined in Part IIA of the Environmental Protection Act 1990, ref 8.10, which was inserted by Section 57 of the Environment Act 1995, ref 8.11, and came into force in England in 2000, as;

'any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being, or is likely to be, caused'.

A3.1.2 In Scotland, this has been amended by the Water Environment and Water Services (Scotland) Act 2003, ref 8.12, to '*significant pollution of the water environment is being caused or there is a significant possibility of such pollution being caused'*.

A3.1.3 The purpose of Part IIA was to help address the problems caused by historical contamination, with the voluntary remediation of such land encouraged without the use of the Act. The planning regime assists in this, with Planning Policy Statement 23: Planning and Pollution Control (PPS23), ref 8.13, published in 2004, setting out the minimum requirements for the remediation of land affected by contamination as '*after carrying out the development and commencement of its use, the land should not be capable of being determined as contaminated land under Part IIA of the EPA 1990*'.

A3.1.4 The UK guidance on the assessment of contaminated has developed as a direct result of the introduction of these two Acts. The technical guidance supporting the legislation was originally summarised in a number of key documents collectively known as the Contaminated Land Reports (CLRs), a proposed series of twelve documents. Seven were originally published in March 1994, four more were published in April 2002, while the final guidance document, CLR 11 was published in 2004. CLR7 to 10 were withdrawn in 2008, with CLR 9 and 10 effectively replaced by the Environment Agency in the form of Science Reports SR2, ref 8.14 and SR3, ref 8.15.

A3.1.5 CLR11 remains valid and sets out the framework of the investigation process, with the overall approach one of risk management, with risk given the definition of '*a combination of the probability or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence*'. In establishing whether a site fulfils the statutory definition of 'contaminated land' it is necessary to identify whether the three essential elements of risk exist. These are defined as:

- A contaminant - a substance which is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters;
- A receptor - something which could be adversely affected by a contaminant, such as people, an ecological system, property or a water body; and
- A pathway – a route or means by which a receptor can be exposed to, or affected by, a contaminant.

A3.1.6 A *'pollutant linkage'* may be defined as the link between a contaminant *'source'* and a *'receptor'* by means of a *'pathway'*. There may be none, one or many pollutant linkages

existing on a site, which may utilise the same or different sources, pathways and receptors, which may change over the passage of time.

A3.1.7 Each pollutant linkage that exists in respect of the land in question must fulfil one or more of the following criteria:

- significant harm is being caused to the receptor in the pollutant linkage,
- there is a significant possibility of significant harm being caused to that receptor,
- there is (significant) pollution of controlled waters (the water environment) which constitute the receptor, or
- pollution of controlled waters is likely to be caused
- (there is a significant possibility of such pollution being caused).

A3.1.8 A pollutant linkage indicates that all three elements have been identified. The site can only be defined as 'Contaminated Land' under Part IIA if a pollutant linkage exists and the criteria above are met.

A3.1.9 The main potential receptors include:

1) Humans – current site occupants, construction workers, future site users and neighbouring site users.
2) Controlled Waters – surface water and groundwater resources
3) Property – including buildings, crops, livestock and pets
4) Ecological systems – including current/future site and neighbouring vegetation

A3.1.10 The main potential pathways to be considered include:

a) Ingestion and/or inhalation.
b) Uptake of contaminants via cultivated vegetables.
c) Dermal contact
d) Migration through permeable strata
e) Drains or services
f) Direct contact with building materials and services
g) Fire and explosion

A3.2 ASSESSMENT METHODOLOGY

A3.2.1 The guidance proposes a four-stage assessment process for identifying potential pollutant linkages on a site. These stages are set out in the table below:

No.	Process	Description
1	Hazard Identification	Establishing contaminant sources, pathways and receptors (the conceptual model).
2	Hazard Assessment	Analysing the potential for unacceptable risks (what linkages may be present and what could be the effects?).
3	Risk Estimation	Trying to establish the magnitude and probability of the possible consequences (what degree of harm might result and to what receptors, and how likely is it).
4	Risk Evaluation	Deciding whether the risk is unacceptable.

A3.2.2 Stages 1 and 2 develop a *'conceptual model'* based upon information collated from desk based studies, and reconnaissance of the site (a walkover survey). The walkover survey should be conducted in general accordance with CLR 2. The formation of a conceptual model is an iterative process and as such, it should be updated and refined throughout each stage of the project to reflect any additional information obtained.

A3.2.3 The extent of the desk based research and enquiries to be conducted should be in general accordance with CLR 3. The information from these enquiries is presented in a preliminary investigation report with recommendations, if necessary, for further work based upon the conceptual model. In the absence of specific information on contamination anticipated to be encountered, specific DoE 'Industry Profiles' provide guidance on the nature of contaminants relating to a variety of industrial processes and should be used as the basis for determining which contaminants are more likely to be present on a site.

A3.2.4 If potential pollutant linkages are identified within the conceptual model, an intrusive ground investigation and report will be recommended. The investigation should be planned in general accordance with CLR 4, and BS10175. The number of exploratory holes and samples collected for analysis should be consistent with the size of the site and the level of risk envisaged. This will enable a generic quantitative risk assessment (GQRA) to be conducted, at which point the conceptual model can be updated and relevant pollutant linkages can be identified.

A3.2.5 A two-stage investigation may be more appropriate where time constraints are less of an issue. The first stage investigation may be conducted as an initial assessment for the presence of potential sources, with the second being more refined in order to delineate or further characterise any contamination or the physical properties of the site.

A3.3 RISK EVALUATION

A3.3.1 The risk evaluation is a qualitative method for interpreting the data from the hazard estimation stage. It involves the classification of the:

- magnitude of the potential 'consequence' (severity) of the risk occurring and:
- magnitude of the 'probability' (likelihood) of the risk occurring.

A3.3.2 These are defined in the following sections:

A3.4 CLASSIFICATION OF CONSEQUENCE

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

A3.4.1 In theory, both severe and medium classification can result in death. The differential is that severe relates to short term risk while medium relates to long-term risk. Therefore, the classification of severe requires urgent action while medium may require urgent action but usually long term action would be sufficient.

A3.5 CLASSIFICATION OF PROBABILITY

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

A3.5.1 For the purposes of this preliminary investigation, any source of contamination that has been identified by professional judgement as potentially impacting on the site has been classified as being 'likely' to be present, unless proven otherwise by intrusive investigation.

A3.6 COMPARISON OF CONSEQUENCE AGAINST PROBABILITY

A3.6.1 These classifications are compared to indicate the risk presented by each pollutant linkage. Once the consequence and probability have been classified they can be used to produce a risk category as below:

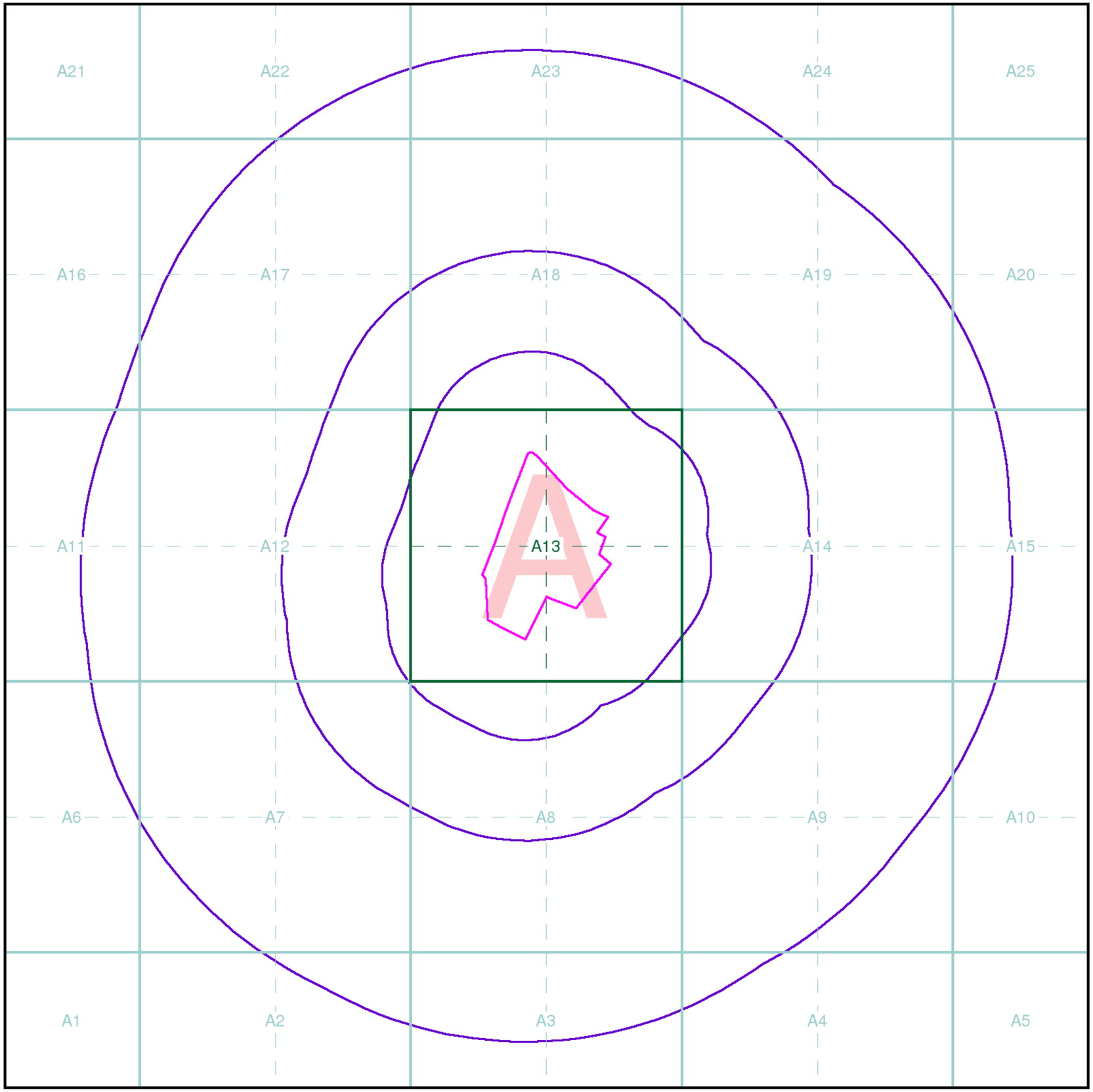
		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

A3.6.2 The action required for the classified risks are as follows:

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

APPENDIX 4

ENVIROCHECK REPORT



IAN FARMER ASSOCIATES

Index Map

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

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

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

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

A selection of organisations who provide data within this report:

Ordnance Survey Licensed Partner

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Prepared For

Booth King Paternship Limited
9C Bridge Street
Ramsbottom, Bury
BL0 9AB

Client Details

Mr M Green, Ian Farmer Associates, 17 Rivington Court, Hardwick Grange, Woolston, Warrington, Cheshire, WA1 4RT

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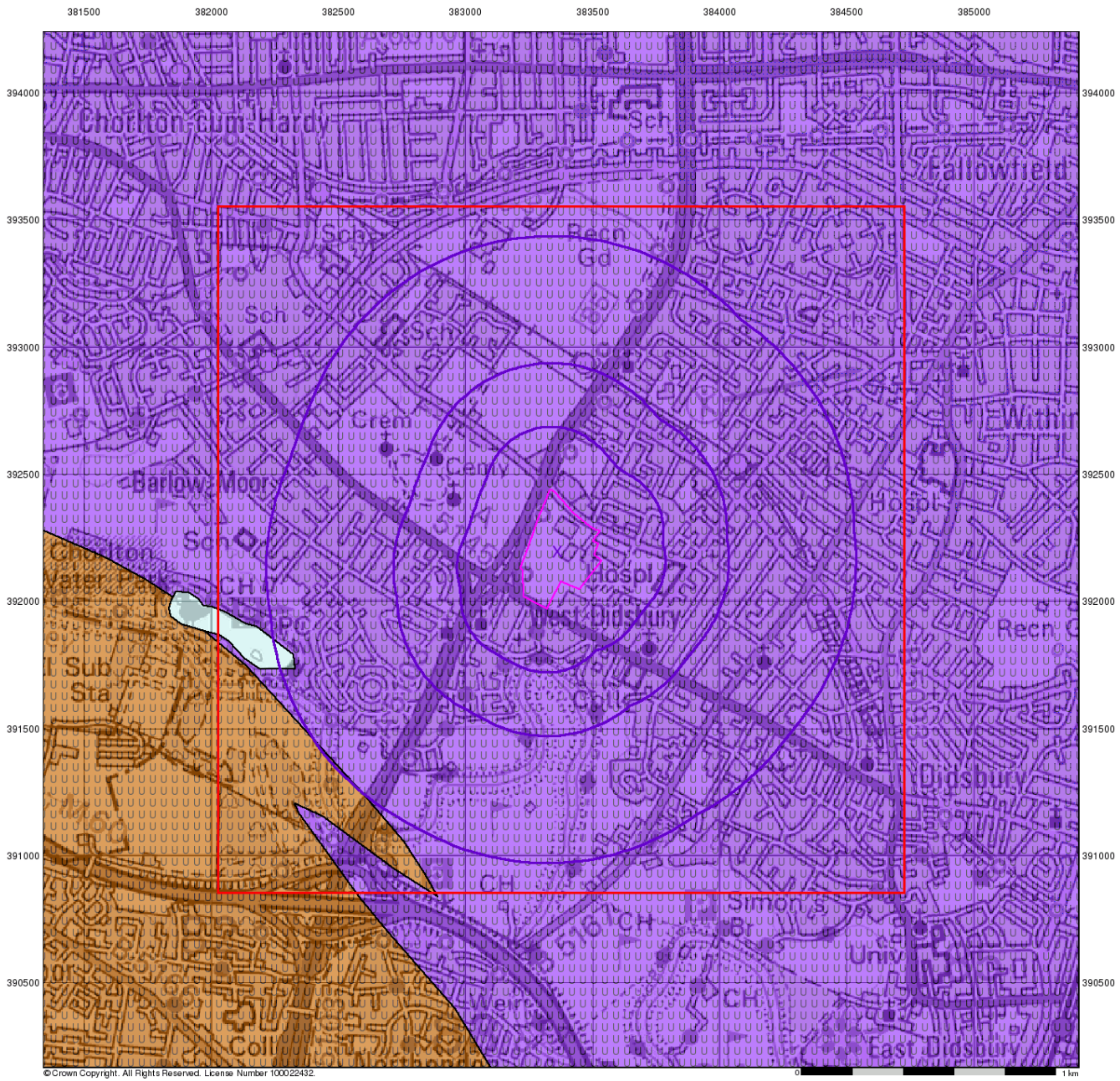
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Groundwater Vulnerability

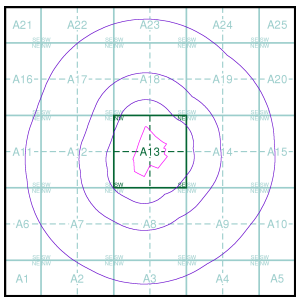
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



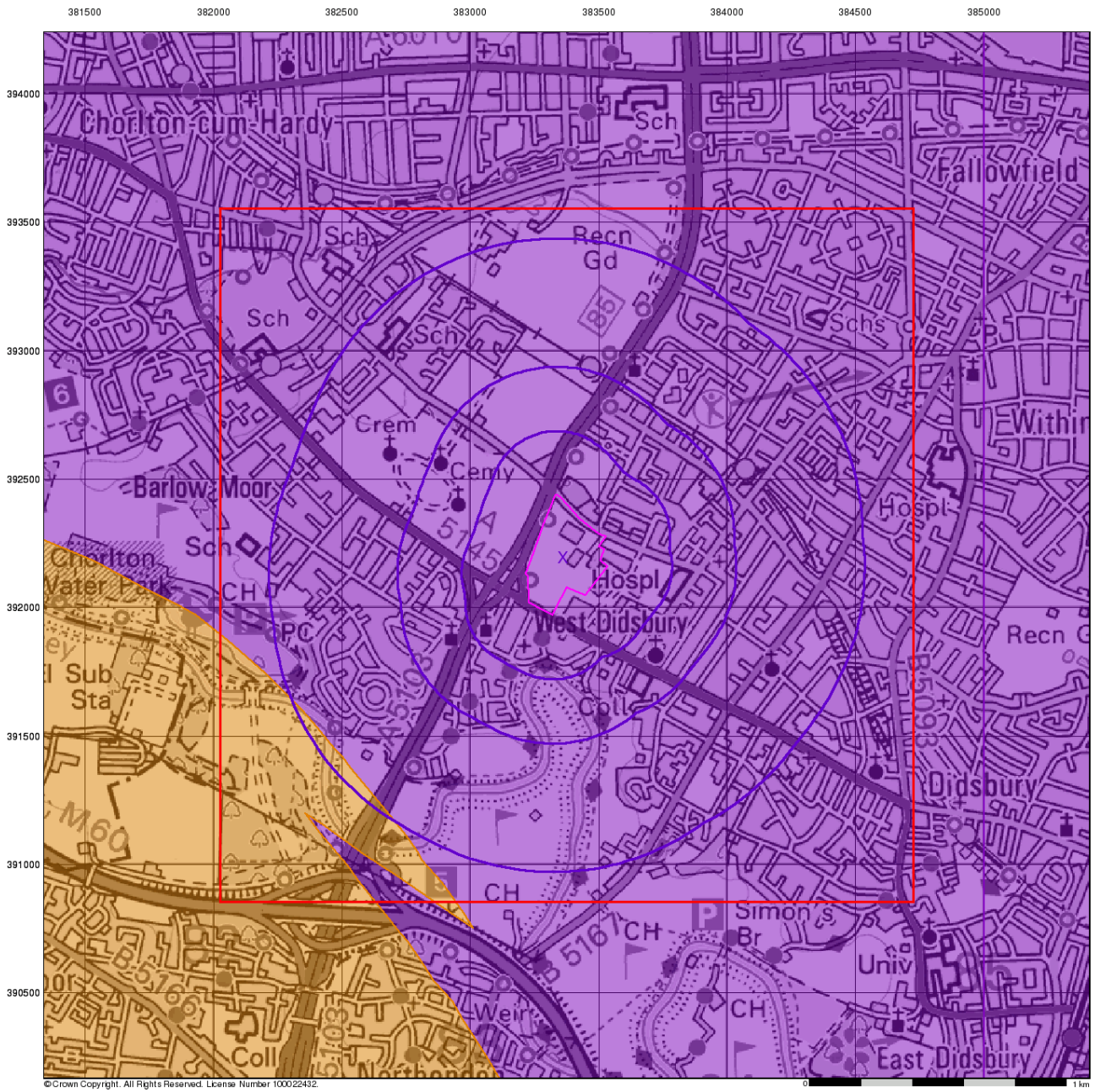
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Bedrock Aquifer Designation

General

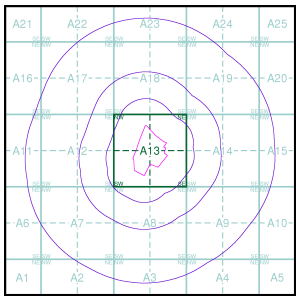
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Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



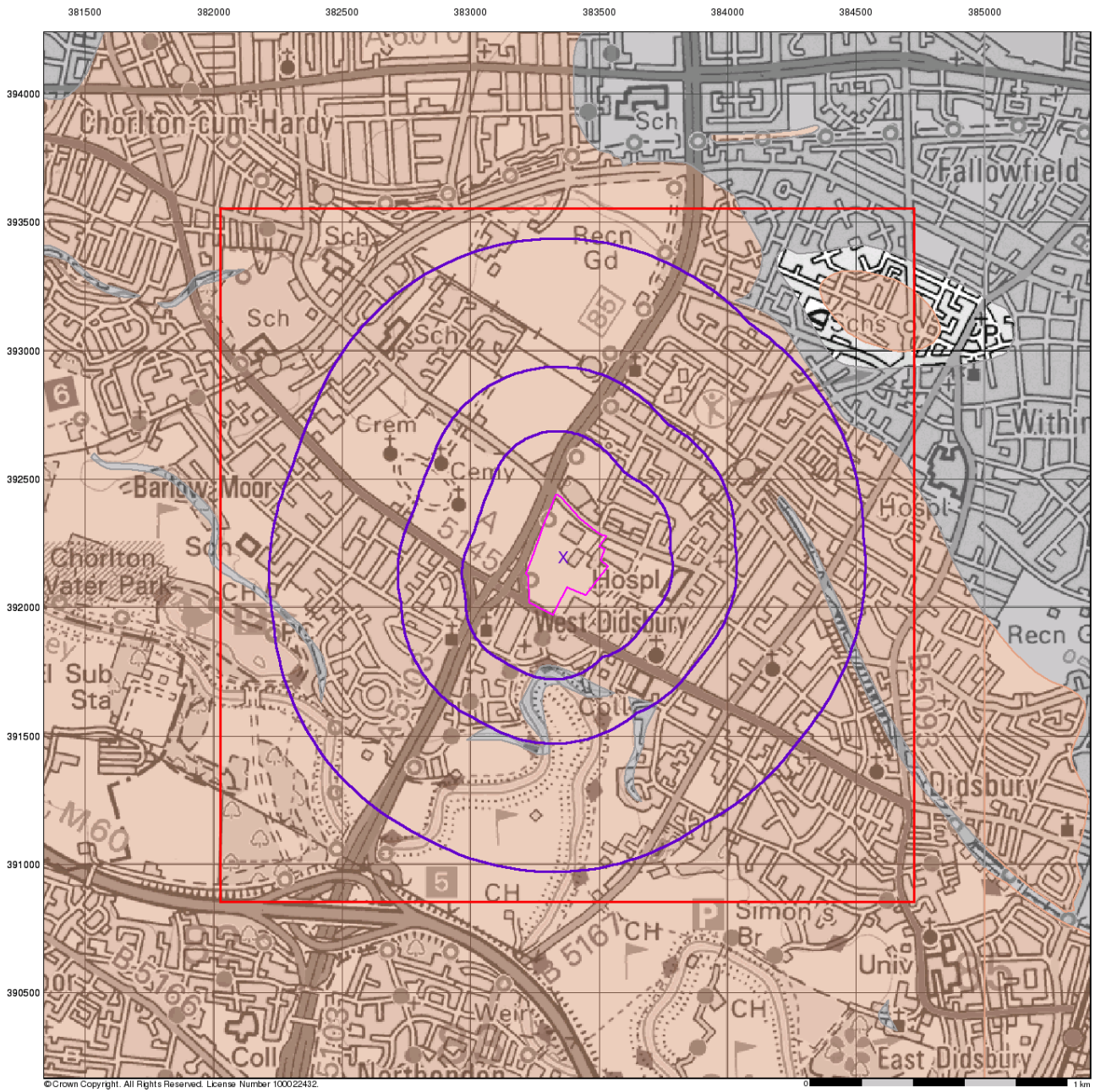
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Superficial Aquifer Designation

General

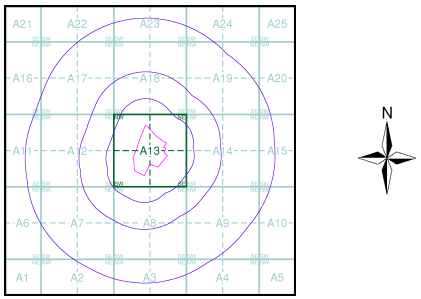
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Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



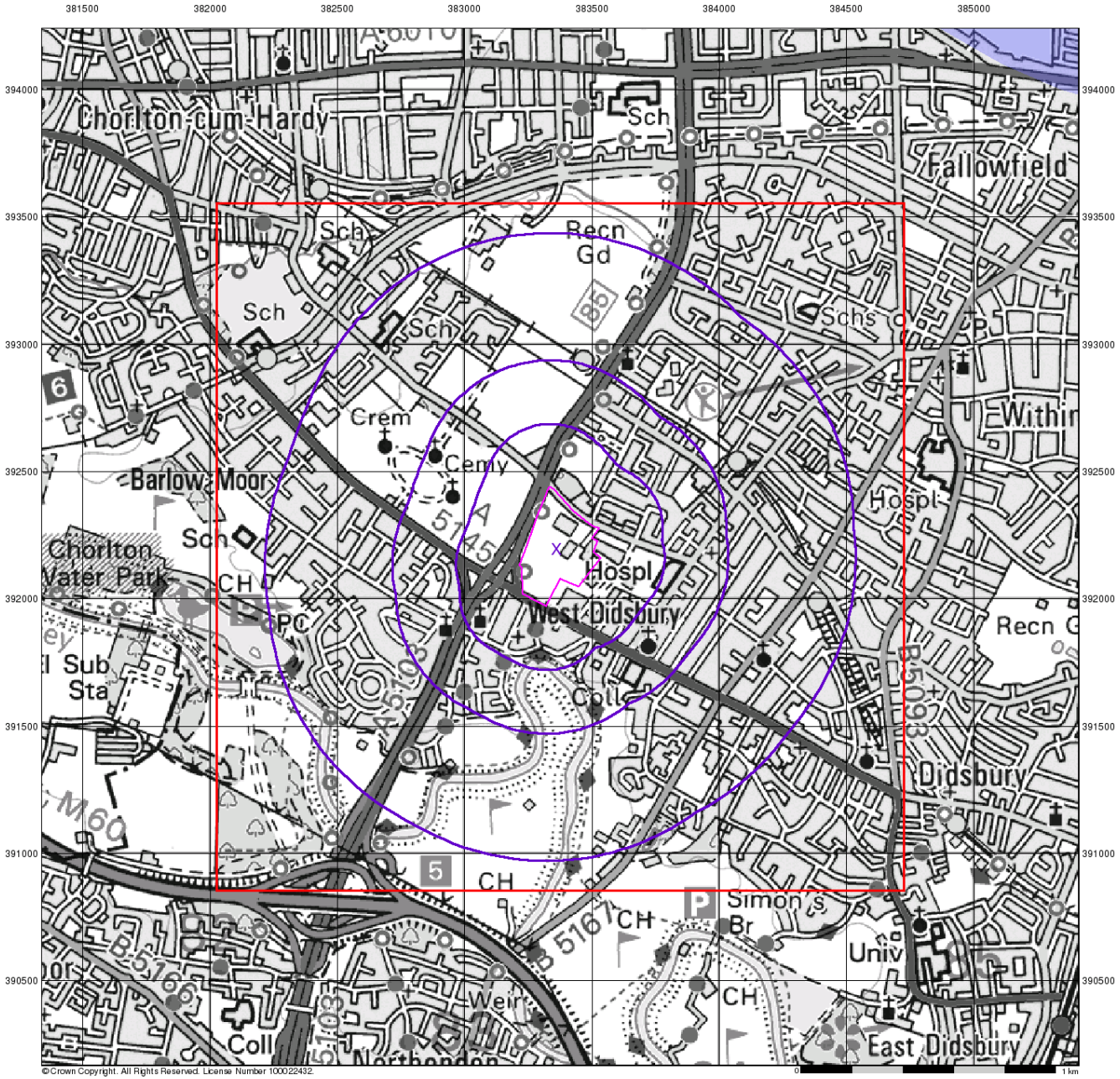
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Source Protection Zones

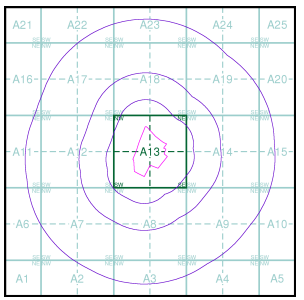
General

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)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



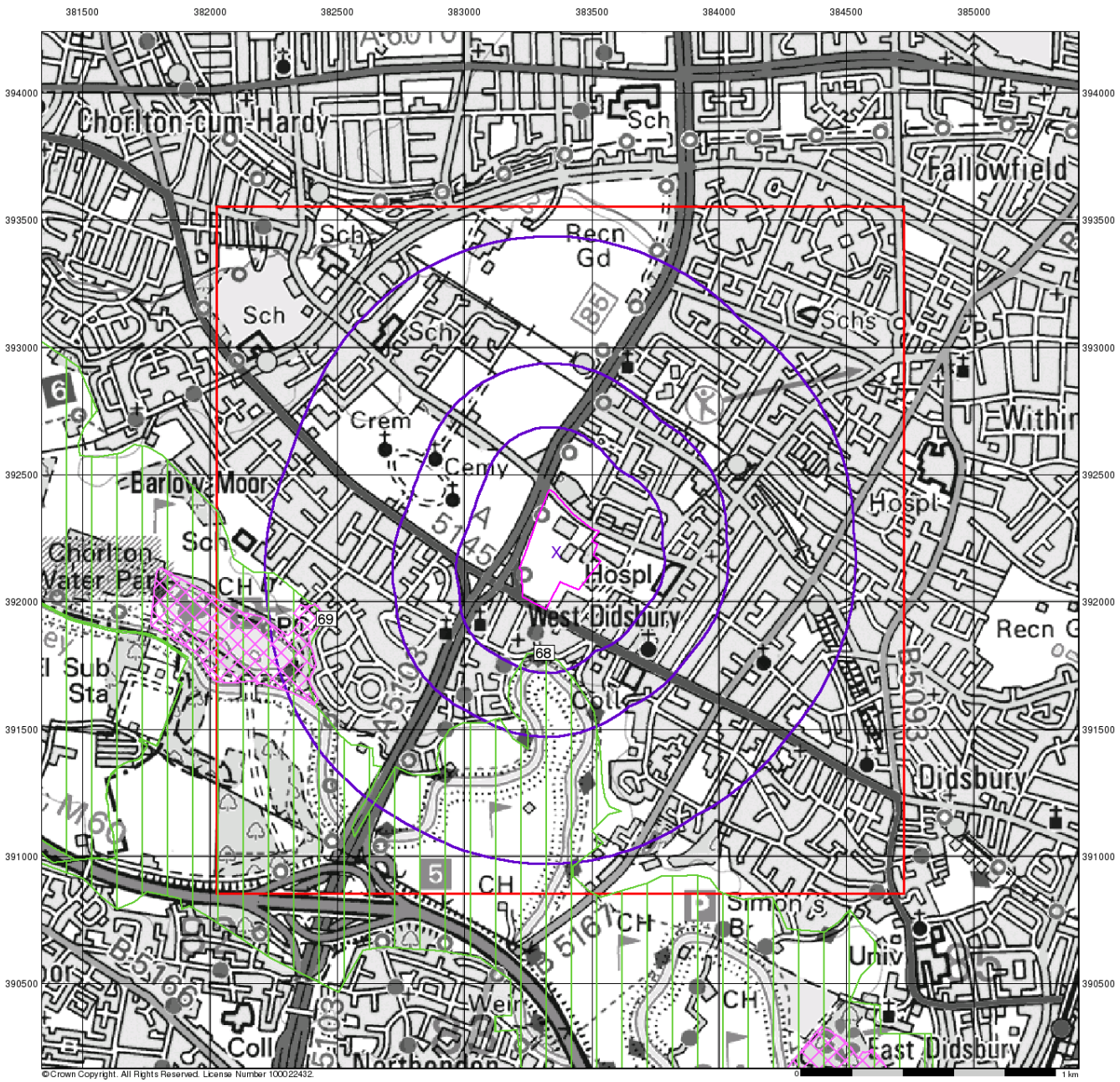
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Sensitive Land Uses

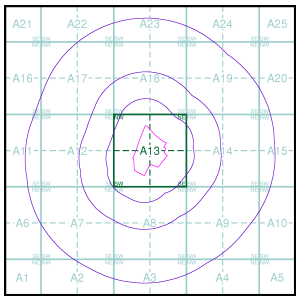
General

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

Sensitive Land Uses

- 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

Site Sensitivity Context Map - Slice A



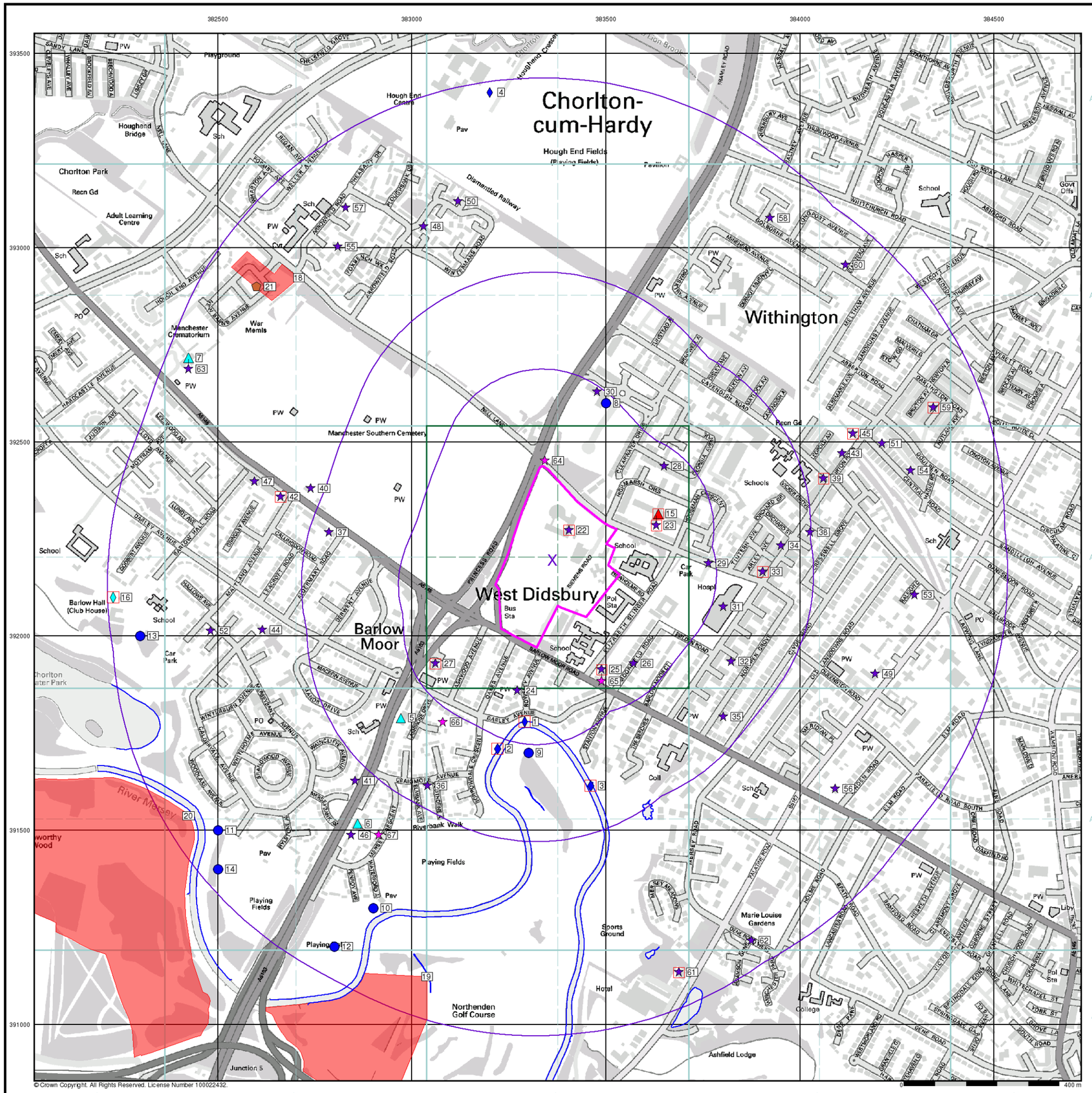
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General

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

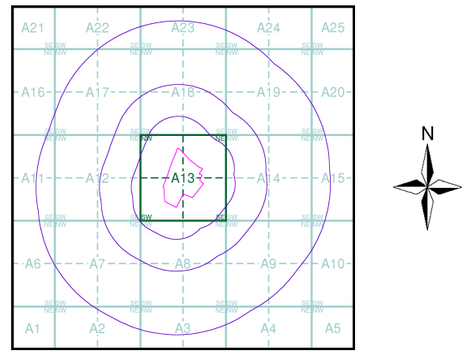
Waste

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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

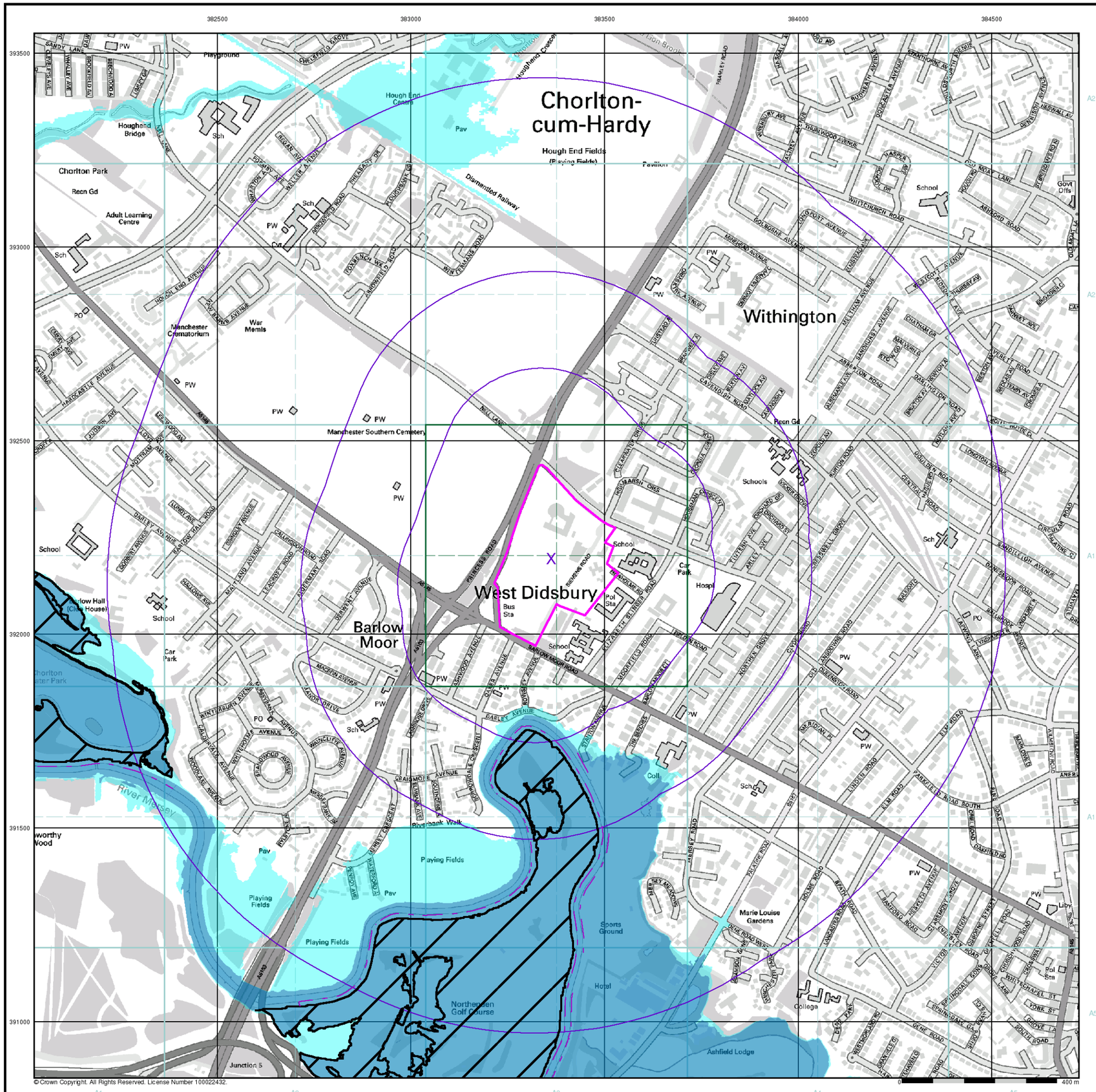
Order Number:	73859724_1_1
Customer Ref:	41787
National Grid Reference:	383360, 392200
Slice:	A
Site Area (Ha):	8.61
Search Buffer (m):	1000

Site Details

Siemens House,, Princess Road, Manchester, M20 2UR

Landmark Information Group

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



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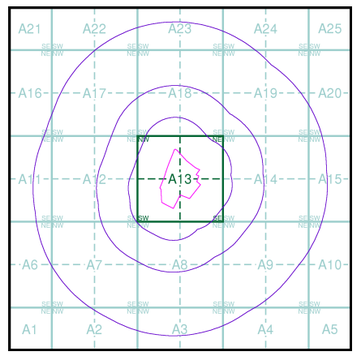
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number:	73859724_1_1
Customer Ref:	41787
National Grid Reference:	383360, 392200
Slice:	A
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Search Buffer (m):	1000

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IAN FARMER ASSOCIATES

General

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

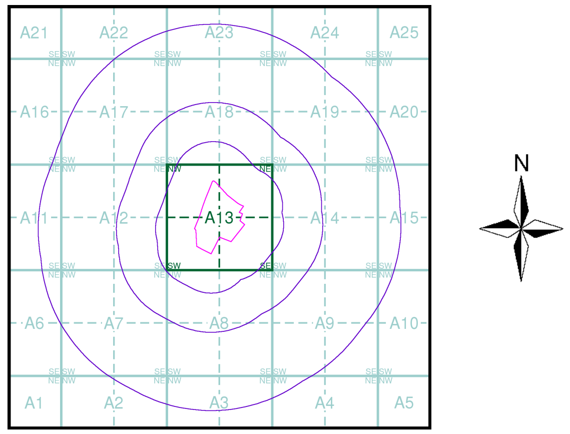
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



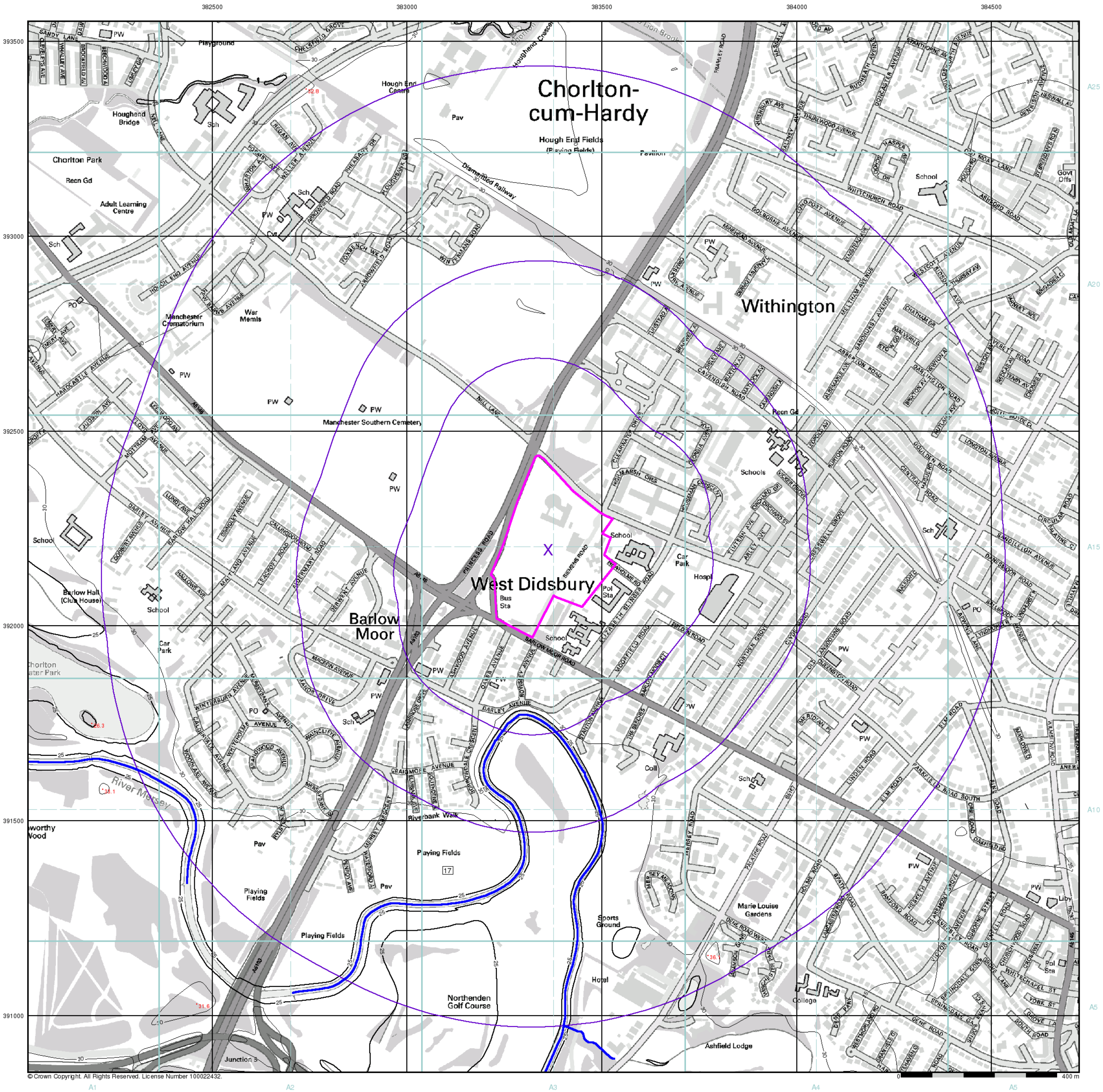
Order Details

Order Number:	73859724_1_1
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National Grid Reference:	383360, 392200
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IAN FARMER ASSOCIATES

General

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

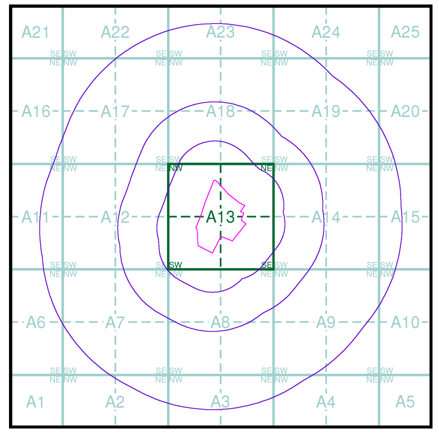
Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

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

EA/NRW Detailed River Network Map - Slice A



N

Order Details

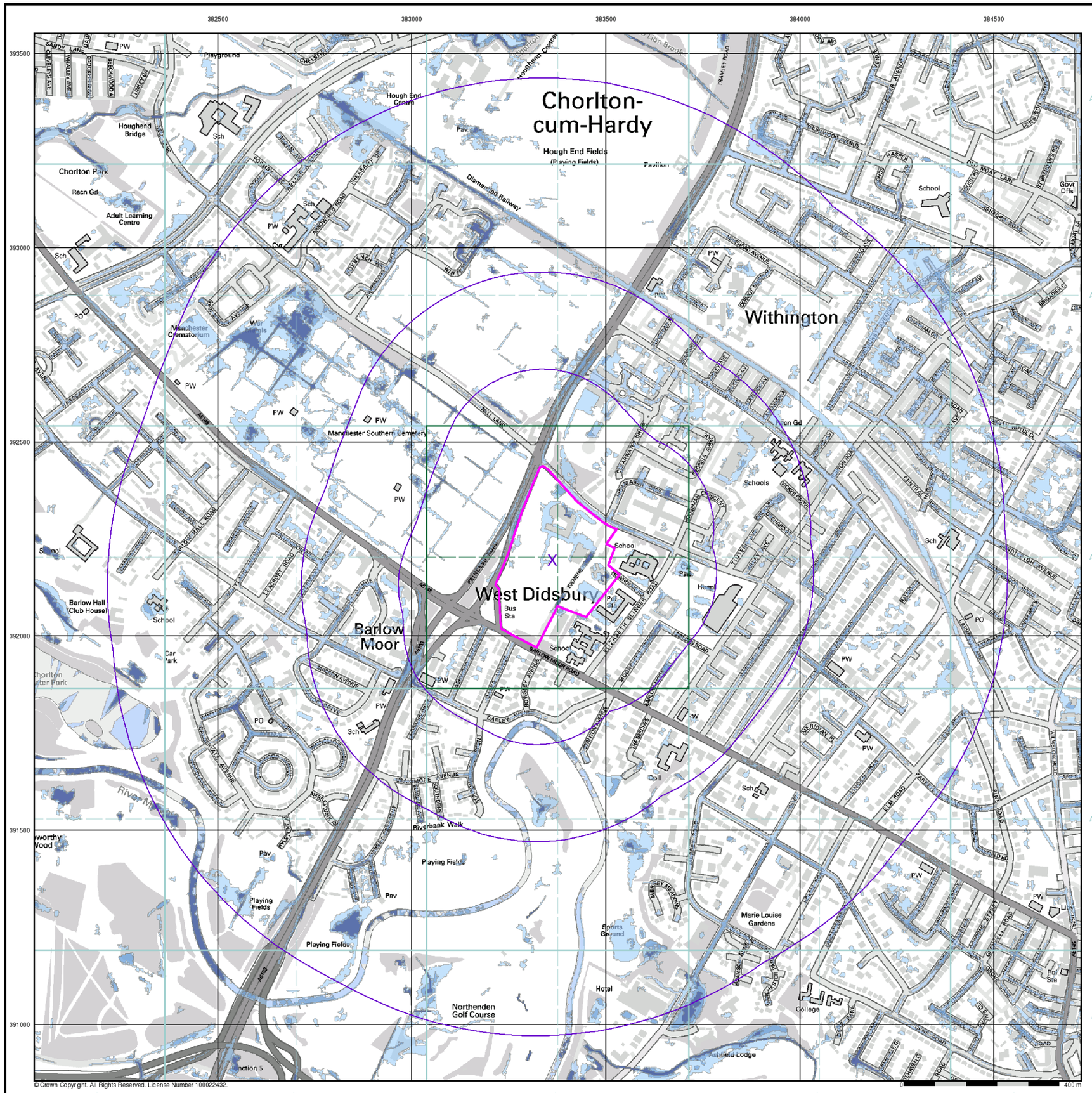
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General

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

Risk of Flooding from Surface Water

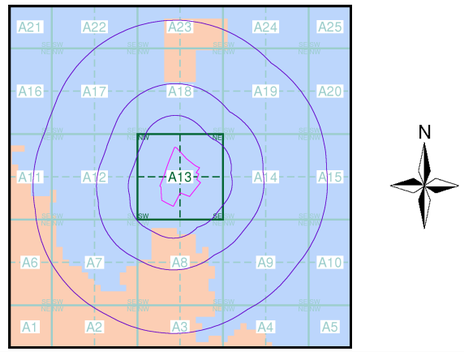
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



Order Details

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General

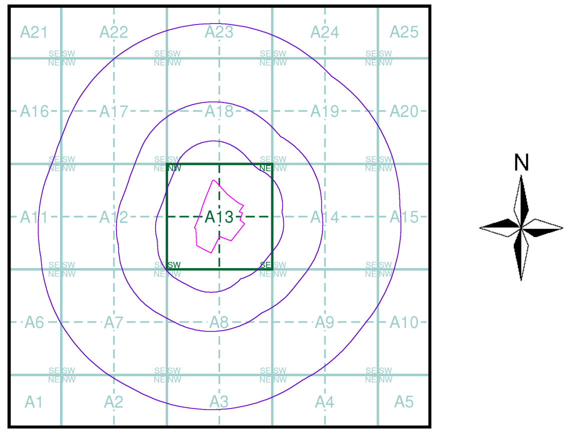
Specified Site   Specified Buffer(s)   X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 73859724_1_1
Customer Ref: 41787
National Grid Reference: 383360, 392200
Slice: A
Site Area (Ha): 8.61
Search Buffer (m): 1000

Site Details

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General

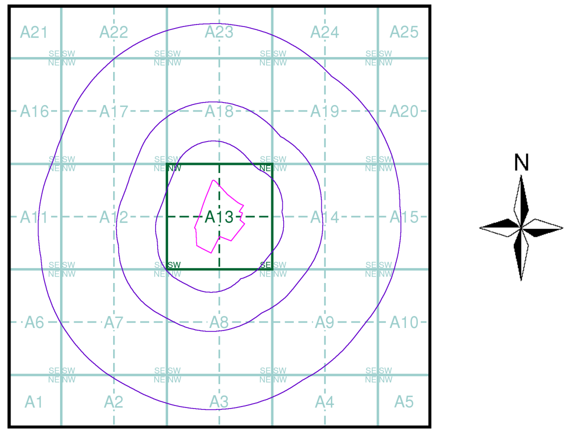
Specified Site Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 73859724_1_1
Customer Ref: 41787
National Grid Reference: 383360, 392200
Slice: A
Site Area (Ha): 8.61
Search Buffer (m): 1000

Site Details

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0 400 m

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General

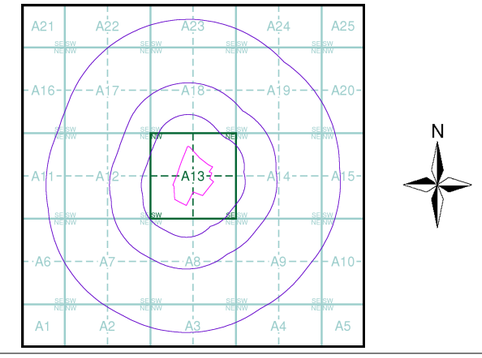
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



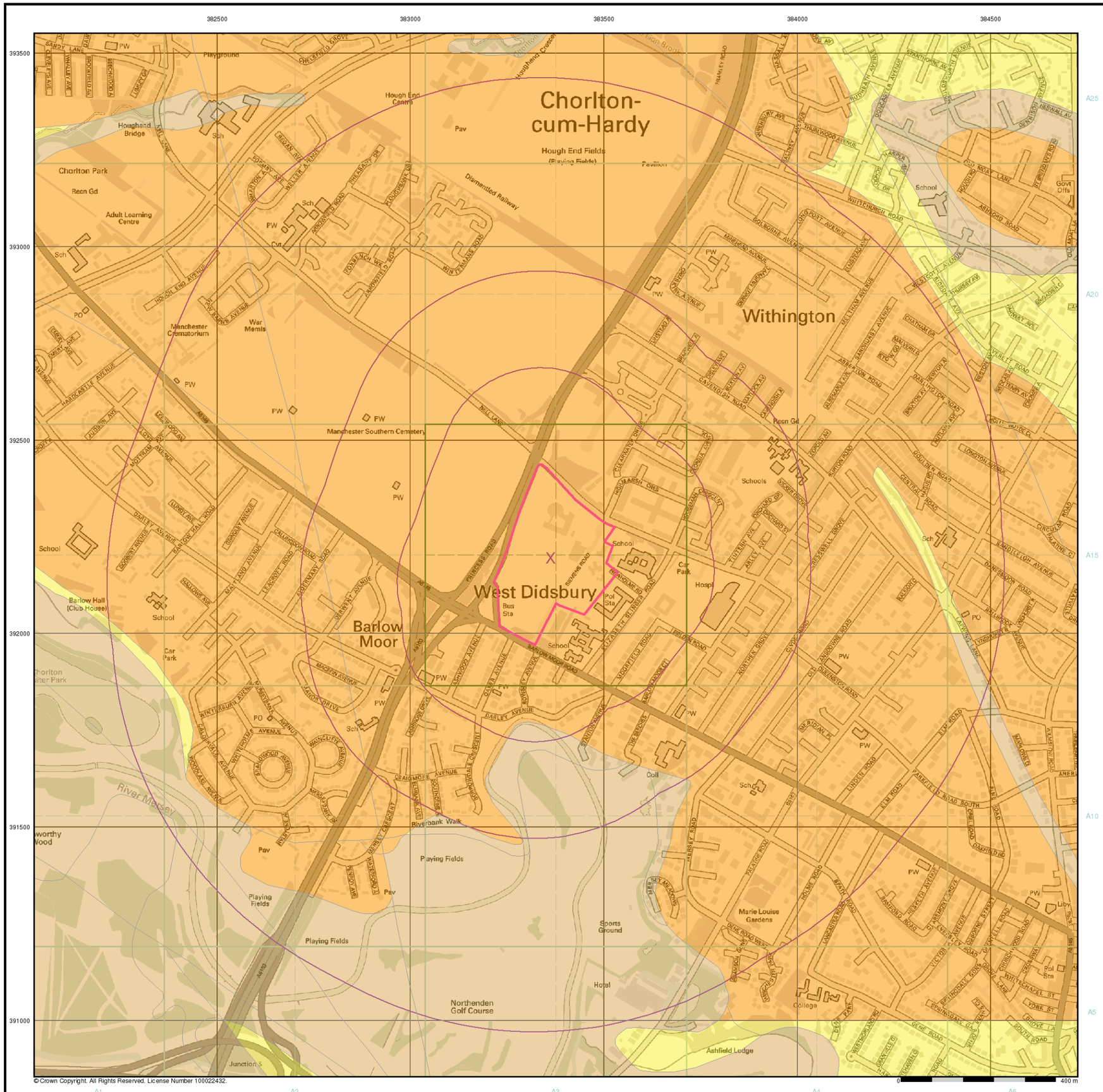
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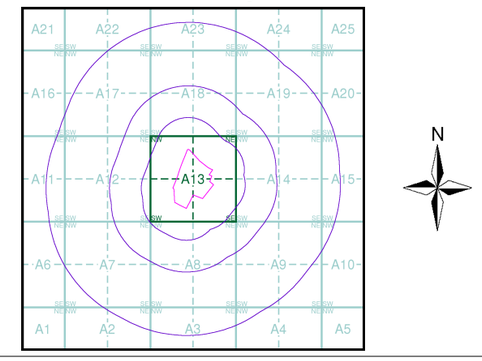
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

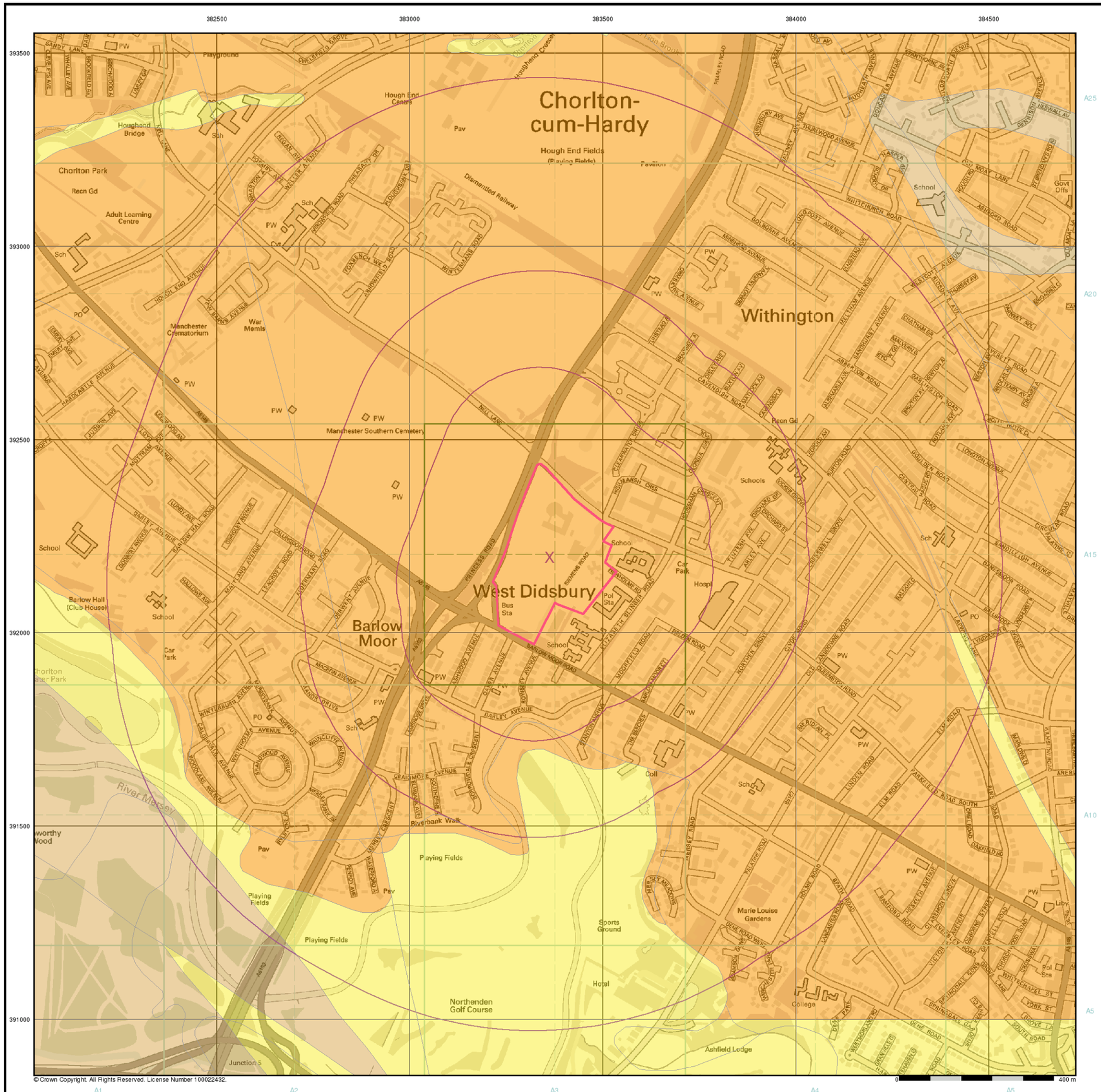
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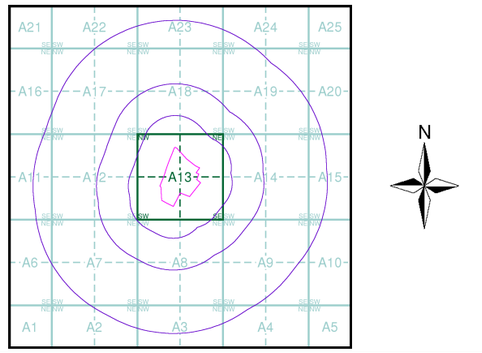
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	73859724_1_1
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Site Details

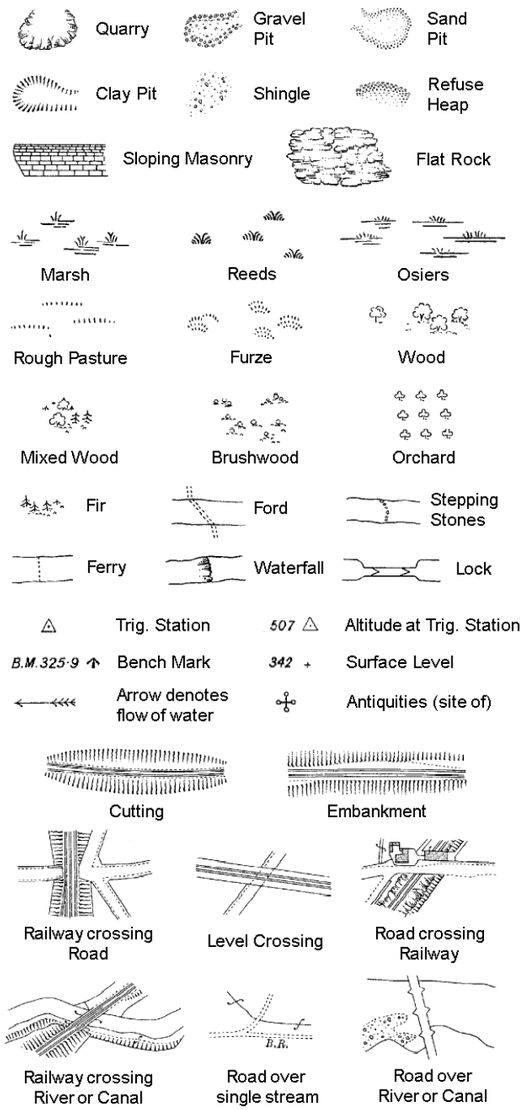
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Historical Mapping Legends

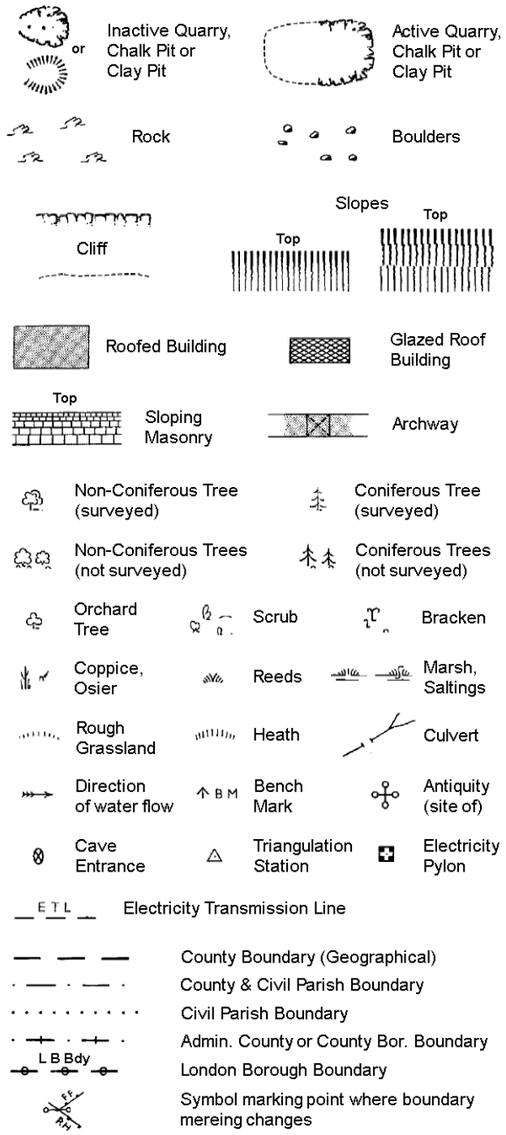
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

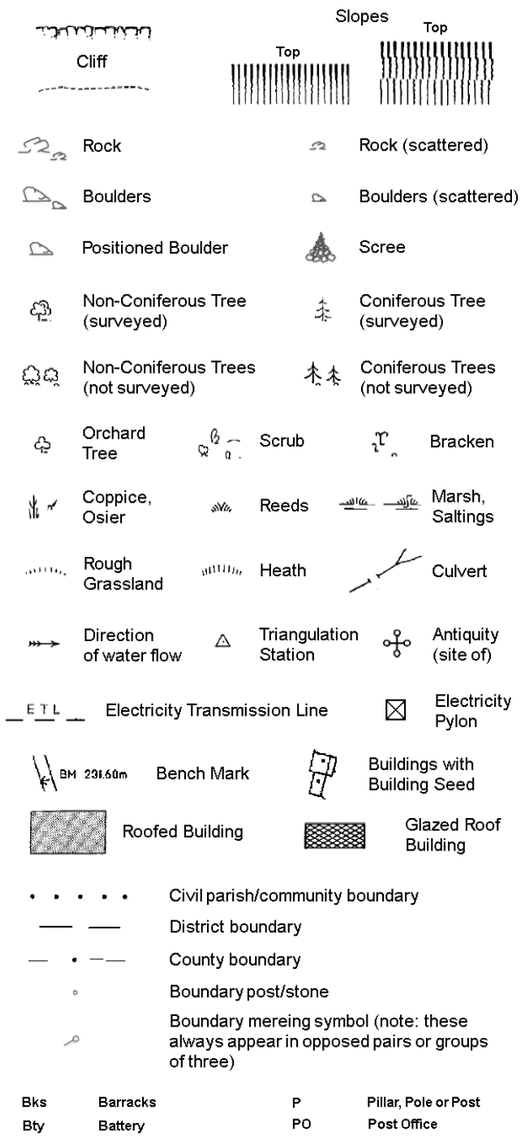
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

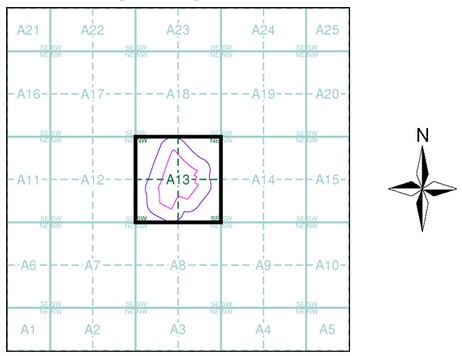
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cheshire	1:2,500	1872 - 1877	2
Lancashire And Furness	1:2,500	1894	3
Cheshire	1:2,500	1898	4
Lancashire And Furness	1:2,500	1907	5
Cheshire	1:2,500	1910	6
Lancashire And Furness	1:2,500	1922	7
Lancashire And Furness	1:2,500	1935	8
Ordnance Survey Plan	1:1,250	1956	9
Ordnance Survey Plan	1:2,500	1956	10
Ordnance Survey Plan	1:1,250	1971 - 1983	11
Additional SIMs	1:1,250	1980 - 1985	12
Additional SIMs	1:1,250	1982 - 1989	13
Ordnance Survey Plan	1:1,250	1990	14
Additional SIMs	1:1,250	1991	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:1,250	1994	17

Historical Map - Segment A13



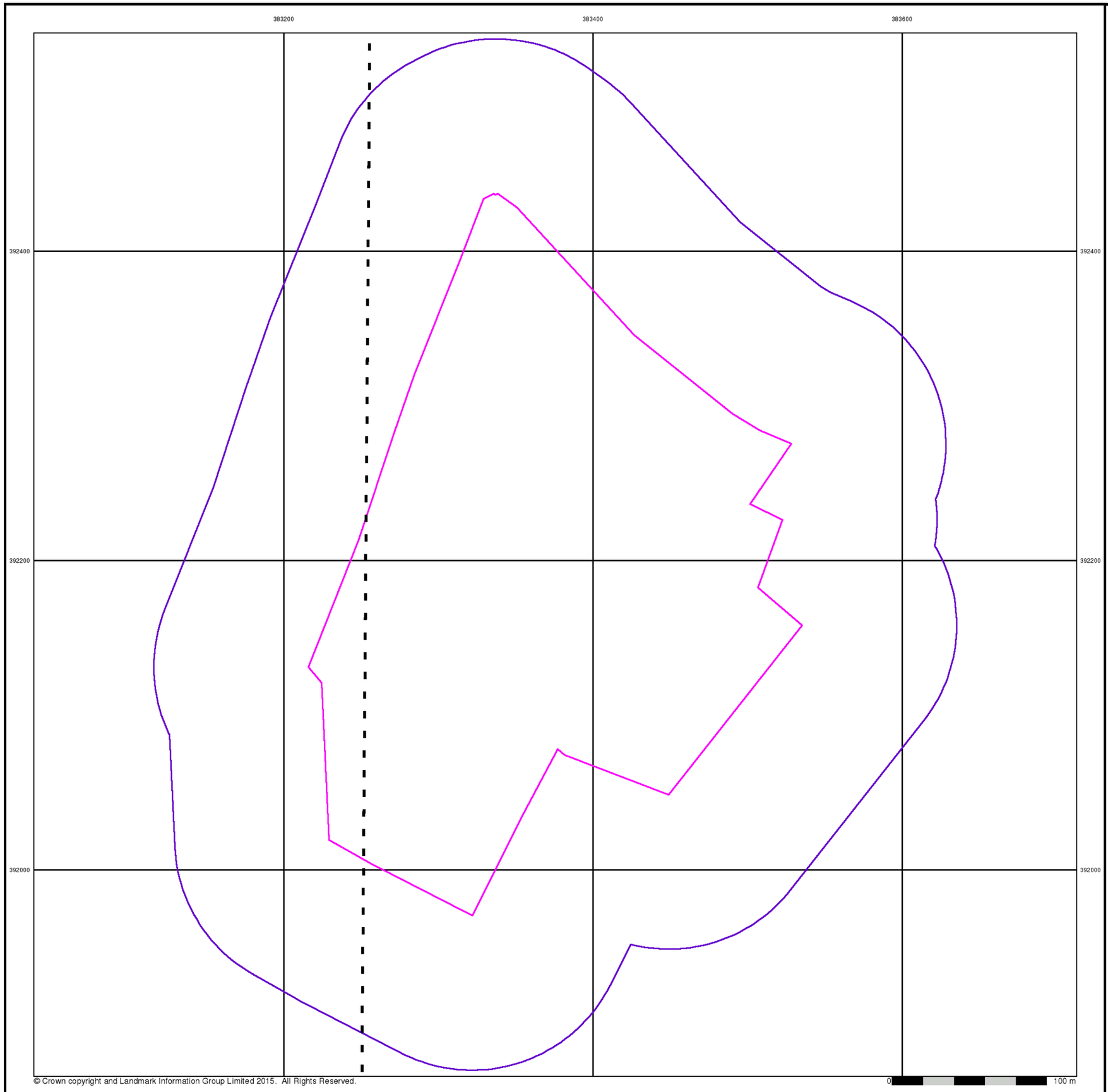
Order Details

Order Number:	73859724_1_1
Customer Ref:	41787
National Grid Reference:	383360, 392200
Slice:	A
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Search Buffer (m):	100

Site Details

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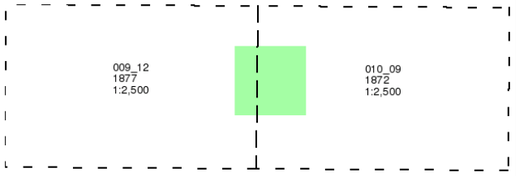
Cheshire

Published 1872 - 1877

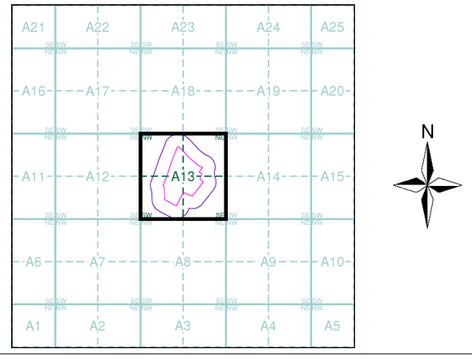
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

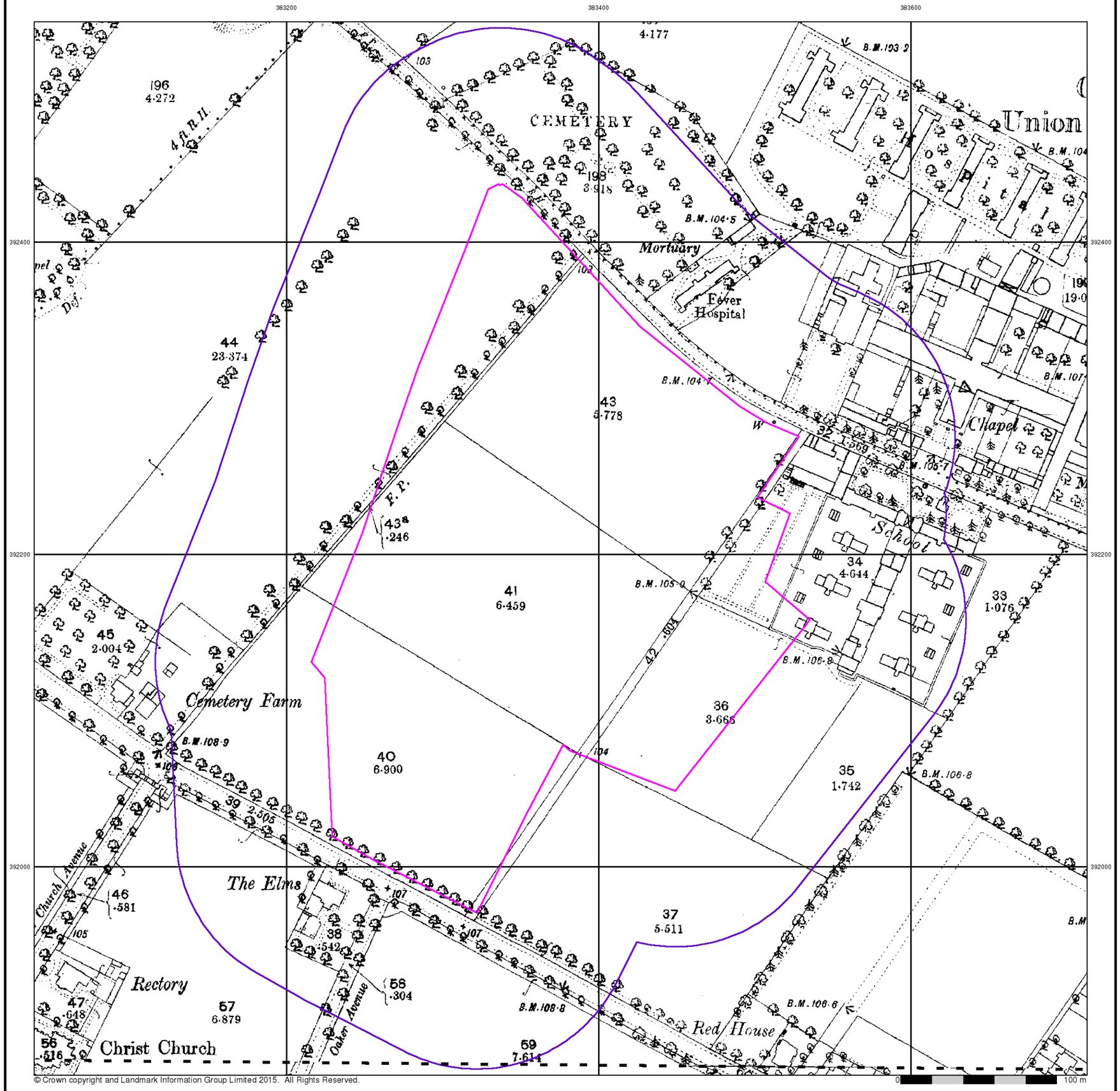
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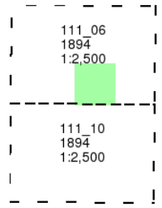
Lancashire And Furness

Published 1894

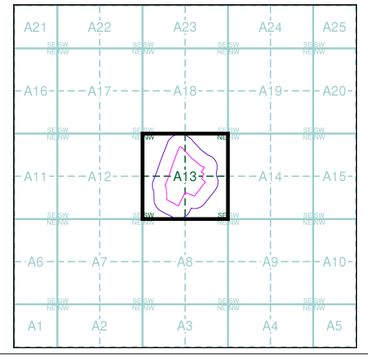
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



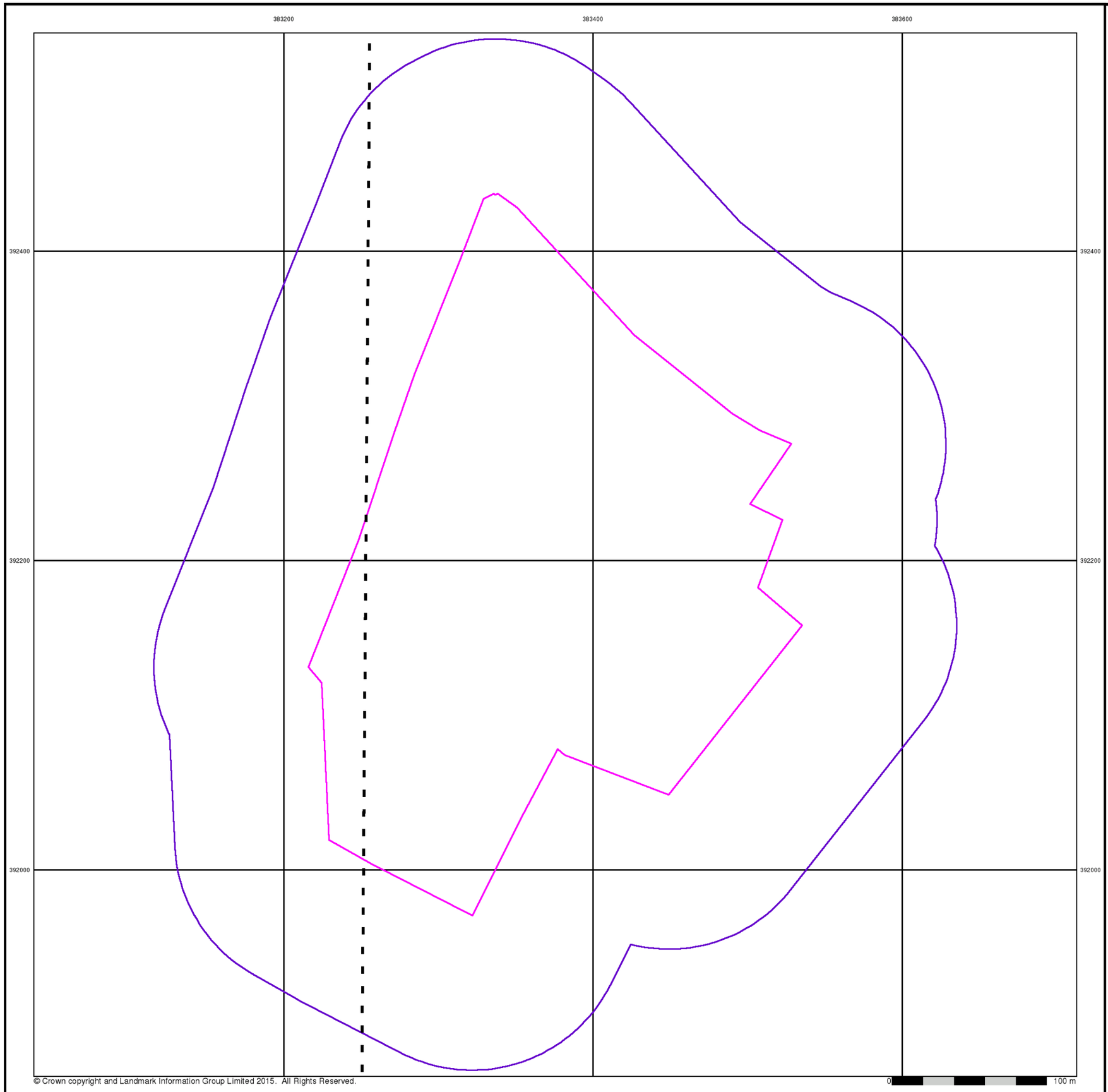
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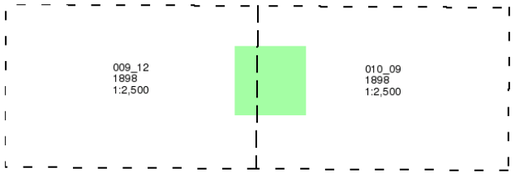
Cheshire

Published 1898

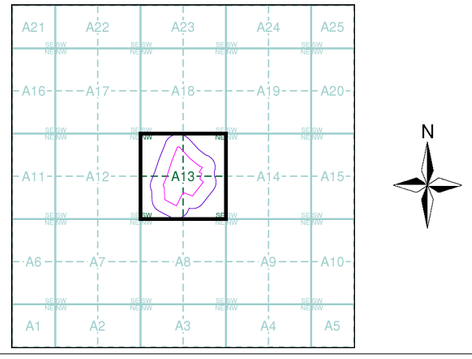
Source map scale - 1:2,500

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



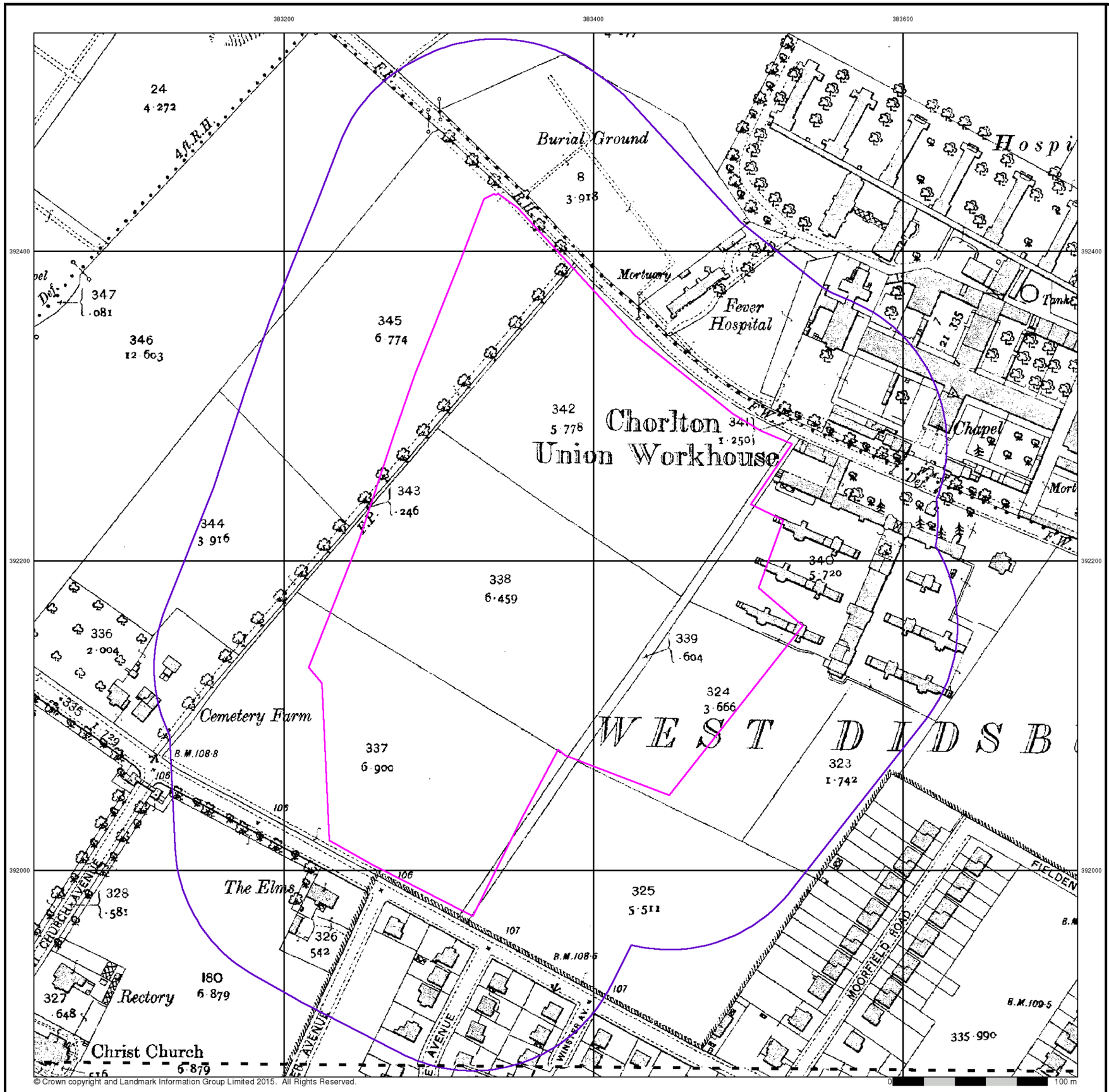
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National Grid Reference:	383360, 392200
Slice:	A
Site Area (Ha):	8.61
Search Buffer (m):	100

Site Details

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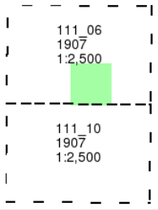
Lancashire And Furness

Published 1907

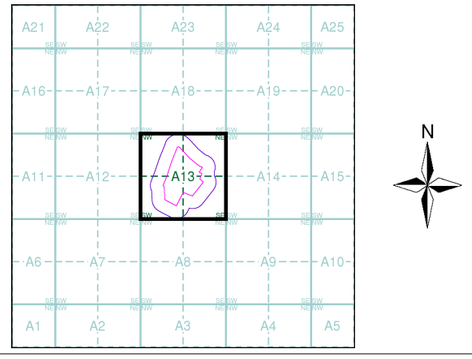
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Historical Map - Segment A13



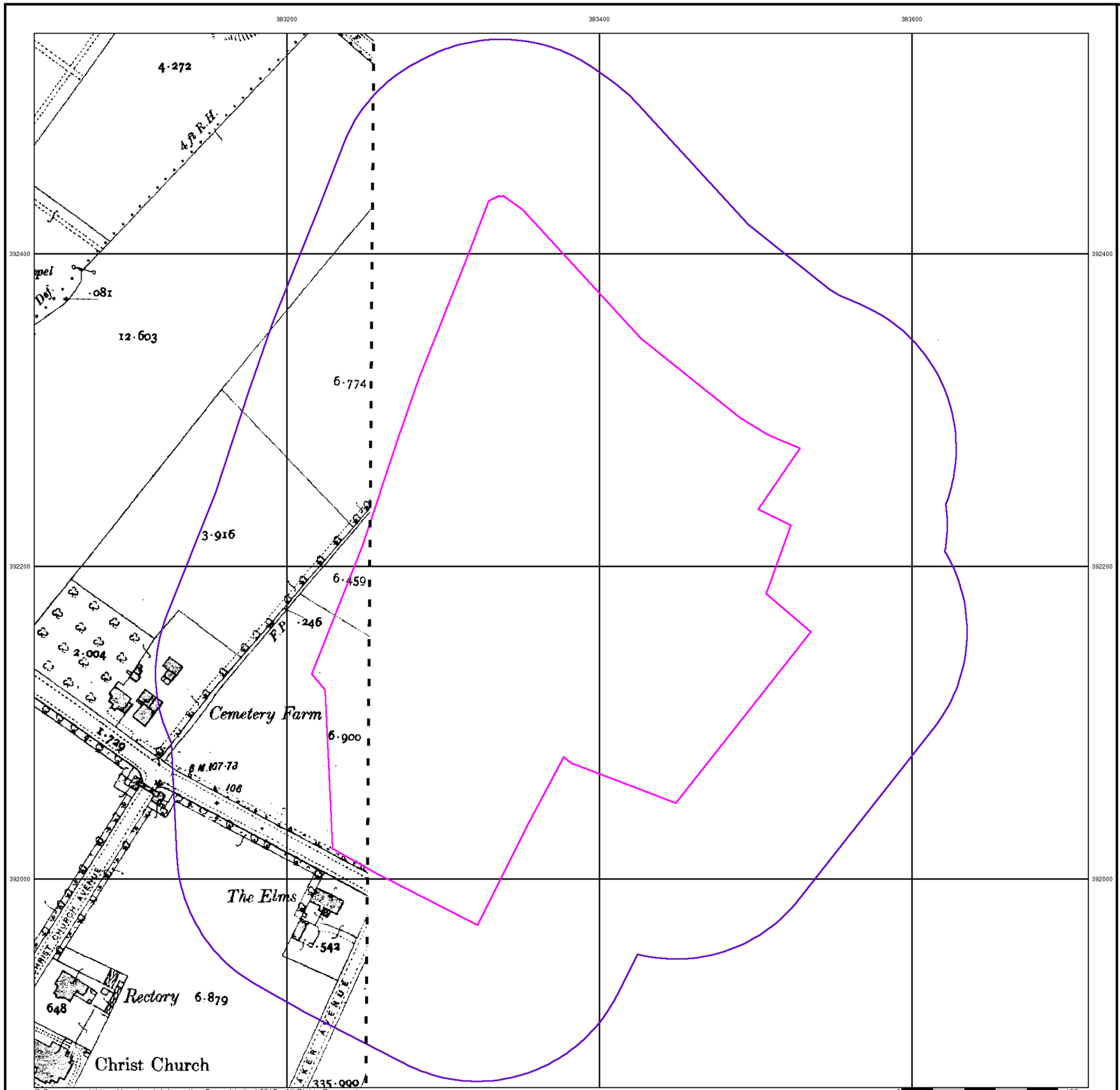
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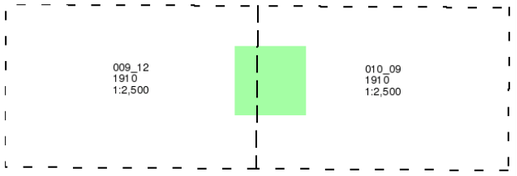
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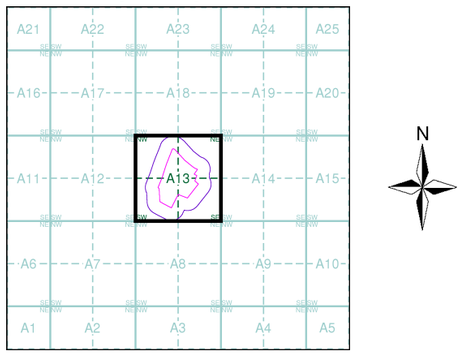
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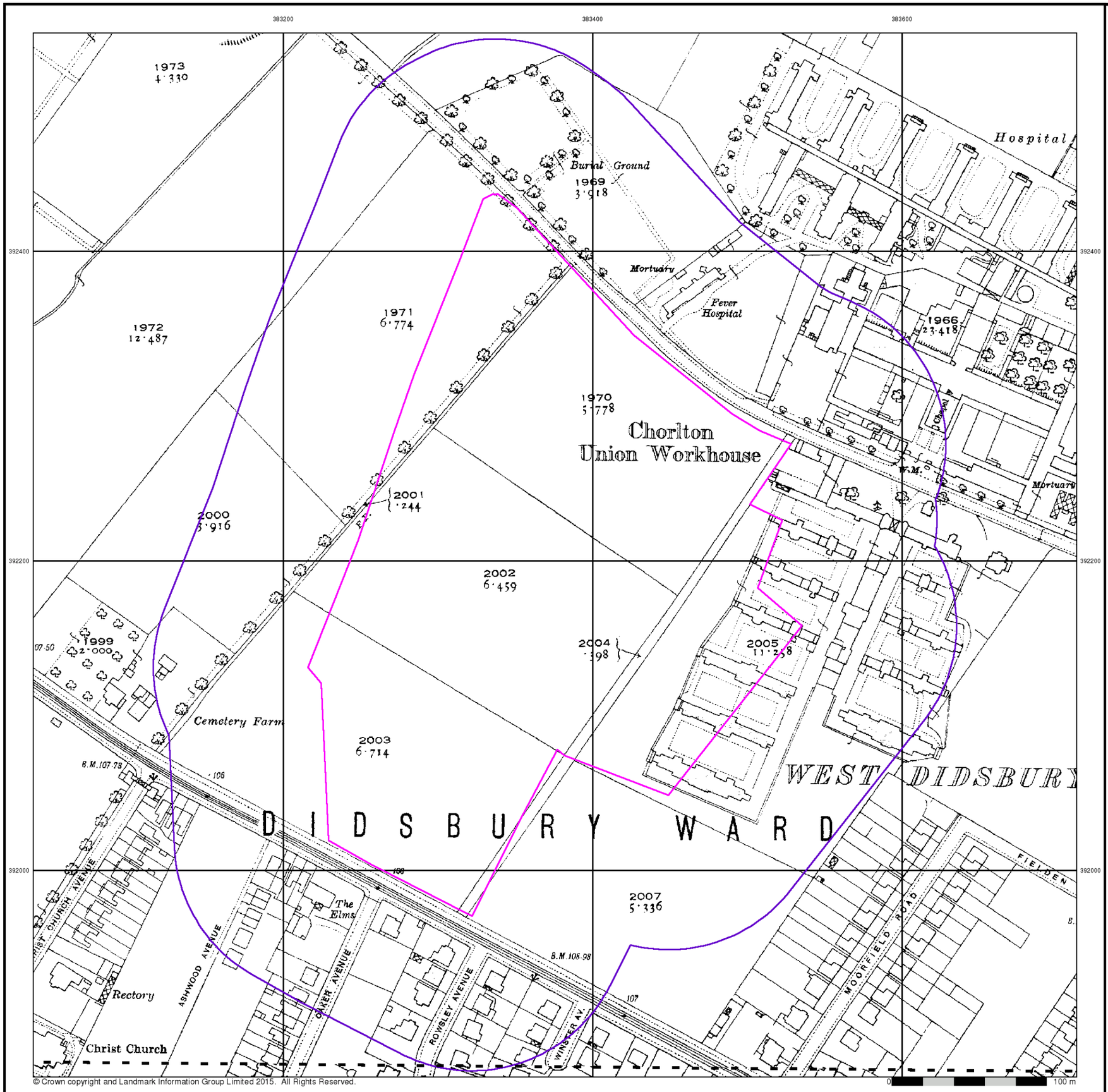
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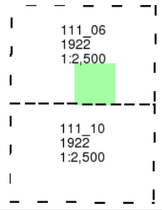
Lancashire And Furness

Published 1922

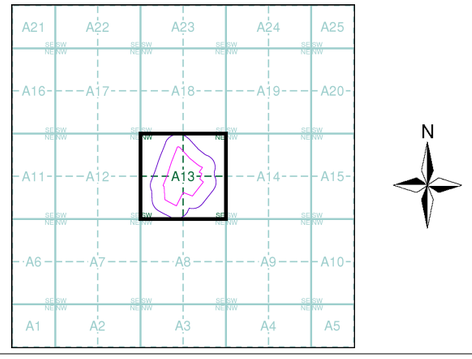
Source map scale - 1:2,500

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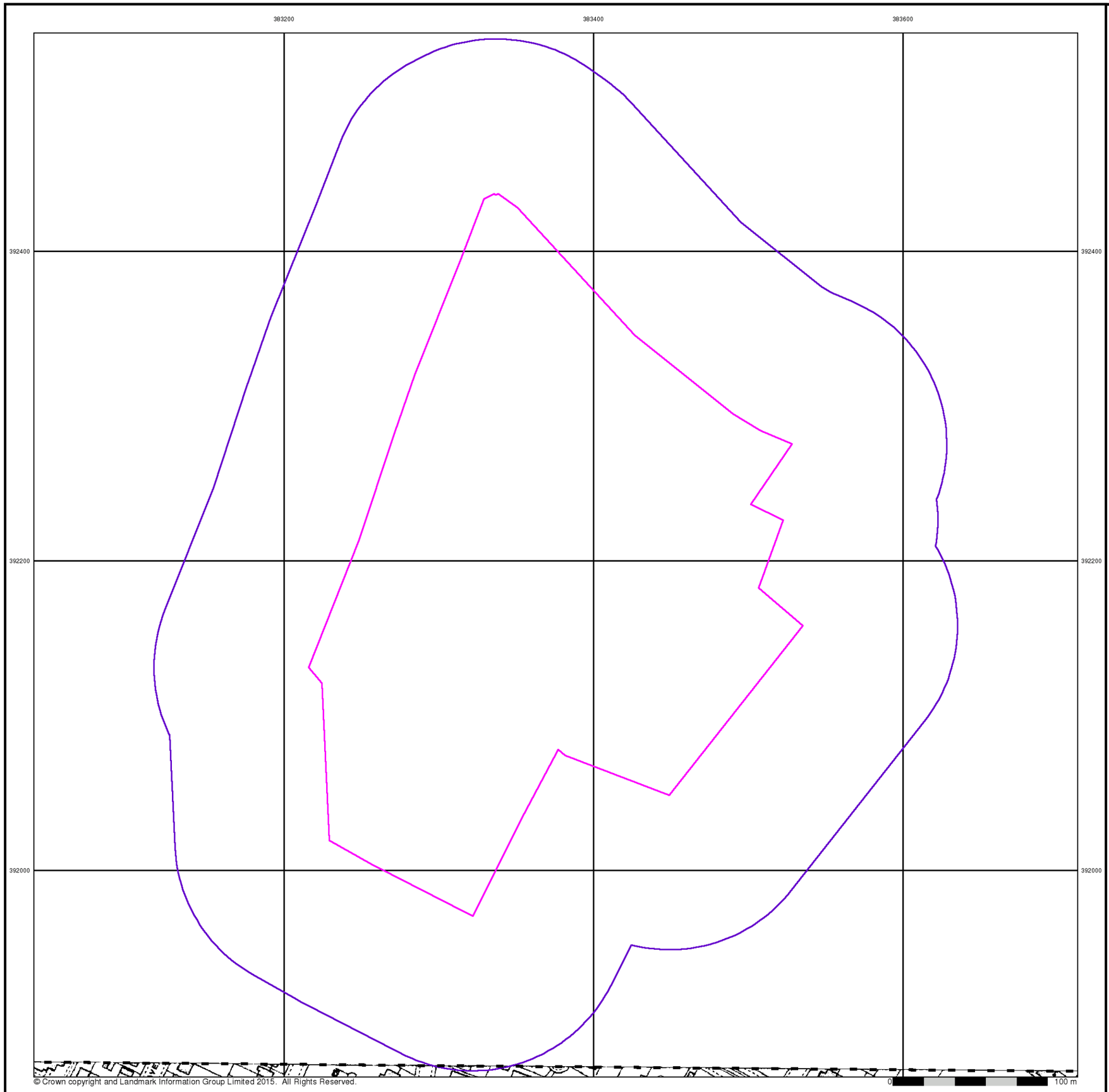
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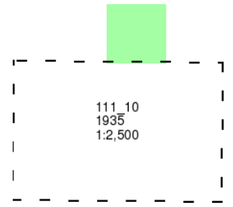
Lancashire And Furness

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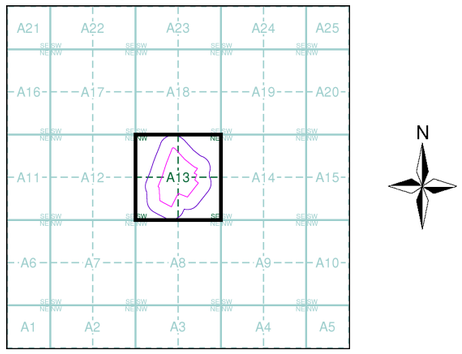
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



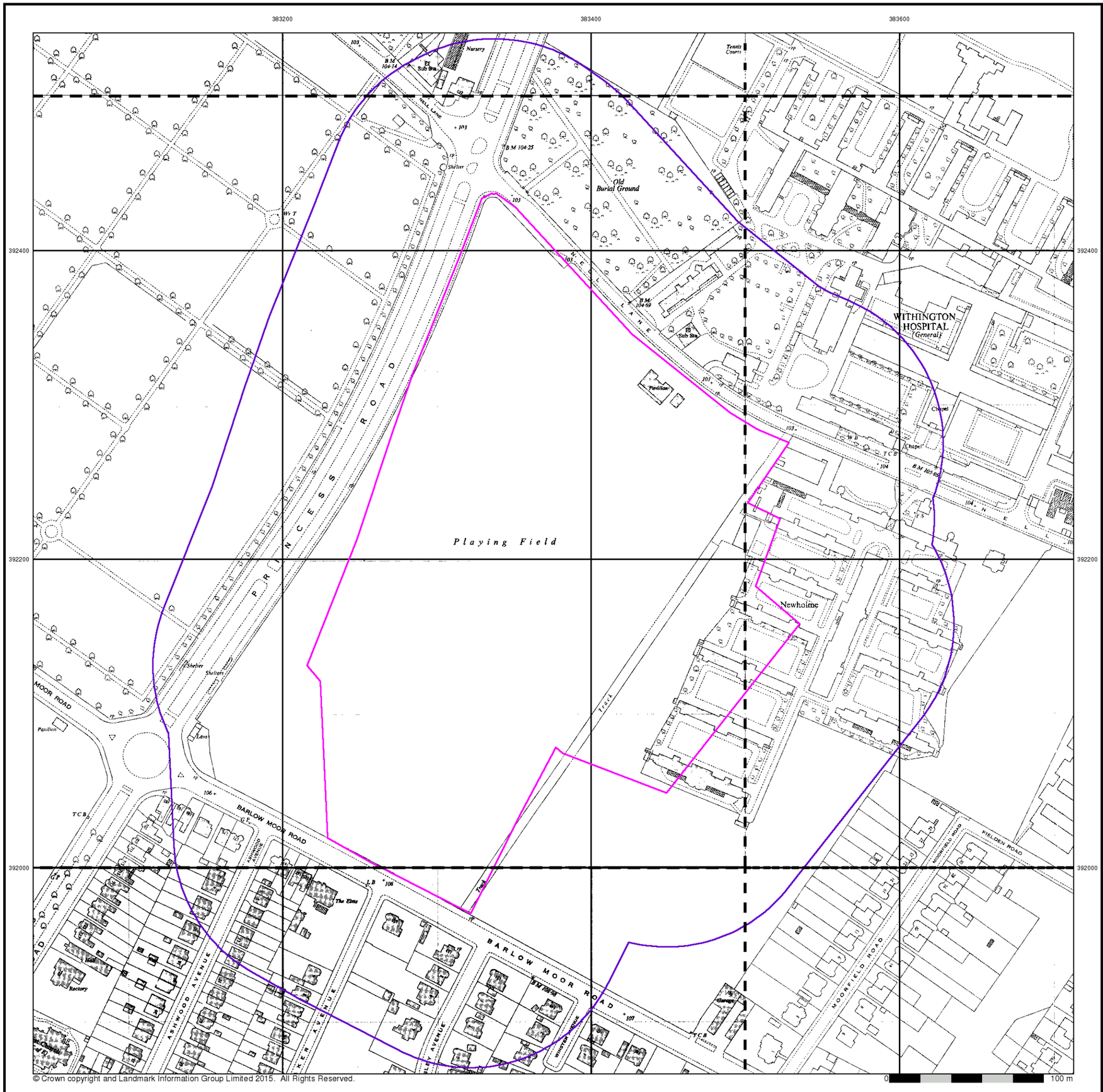
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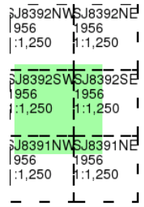
Ordnance Survey Plan

Published 1956

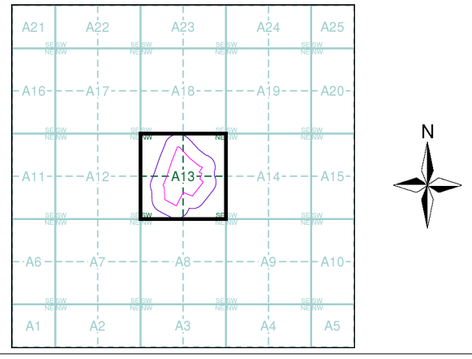
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



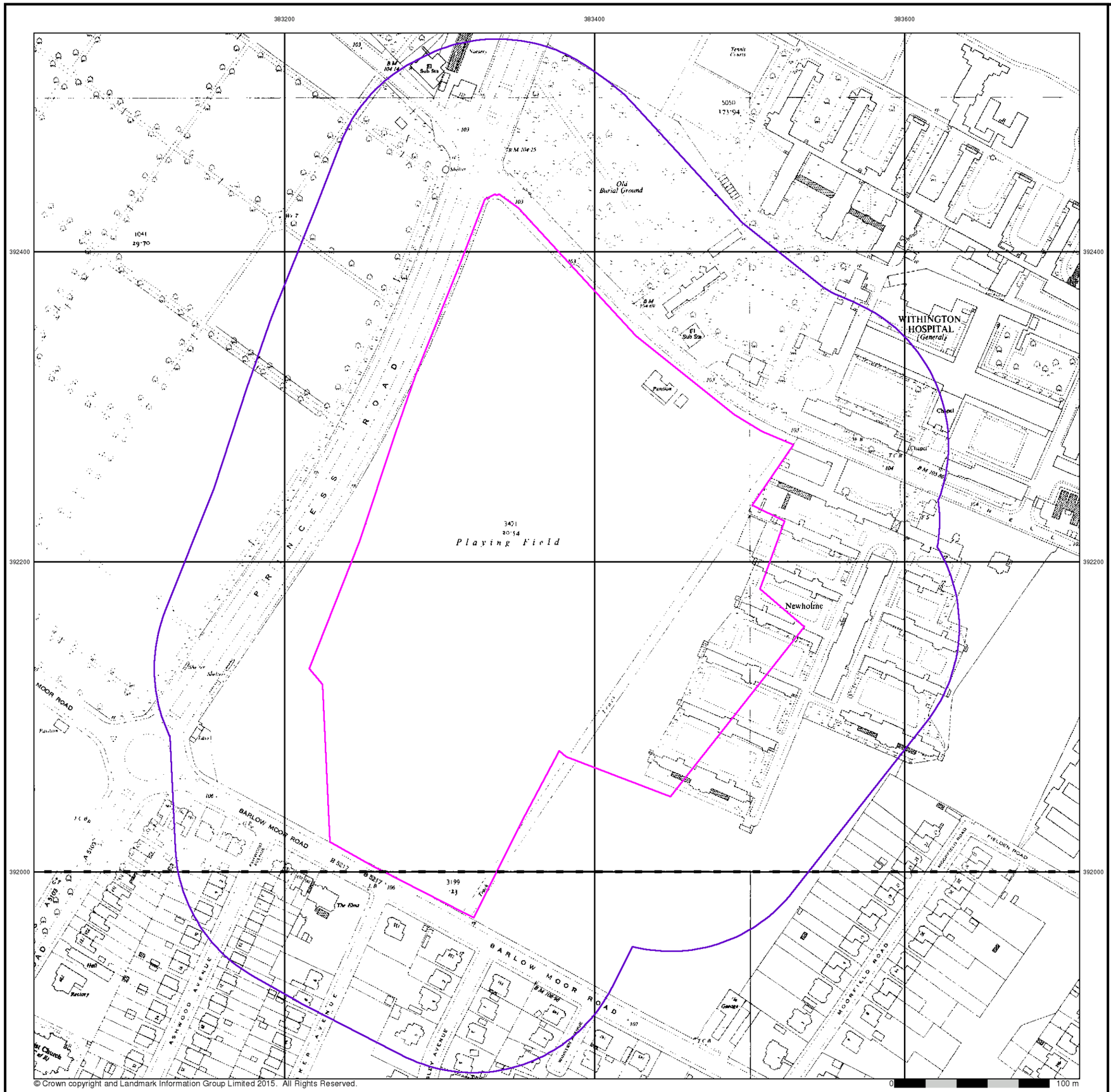
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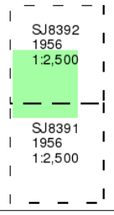
Ordnance Survey Plan

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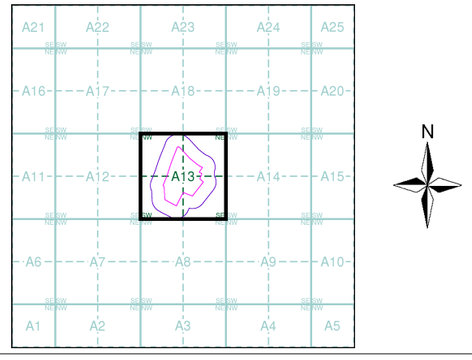
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Map Name(s) and Date(s)



Historical Map - Segment A13



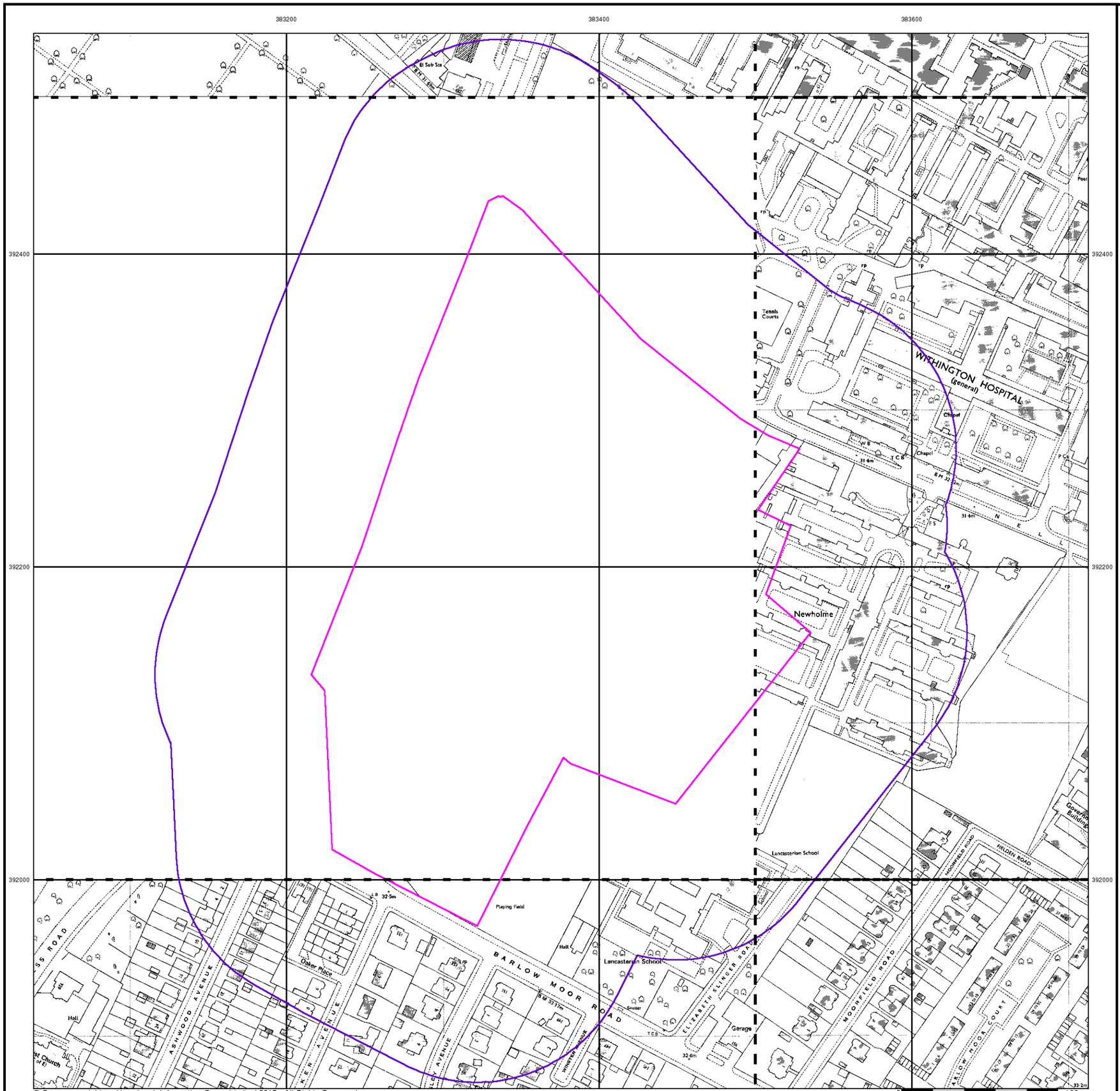
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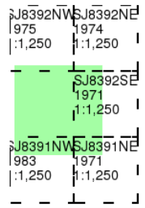
Ordnance Survey Plan

Published 1971 - 1983

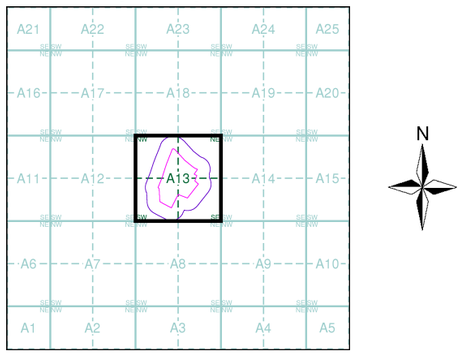
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



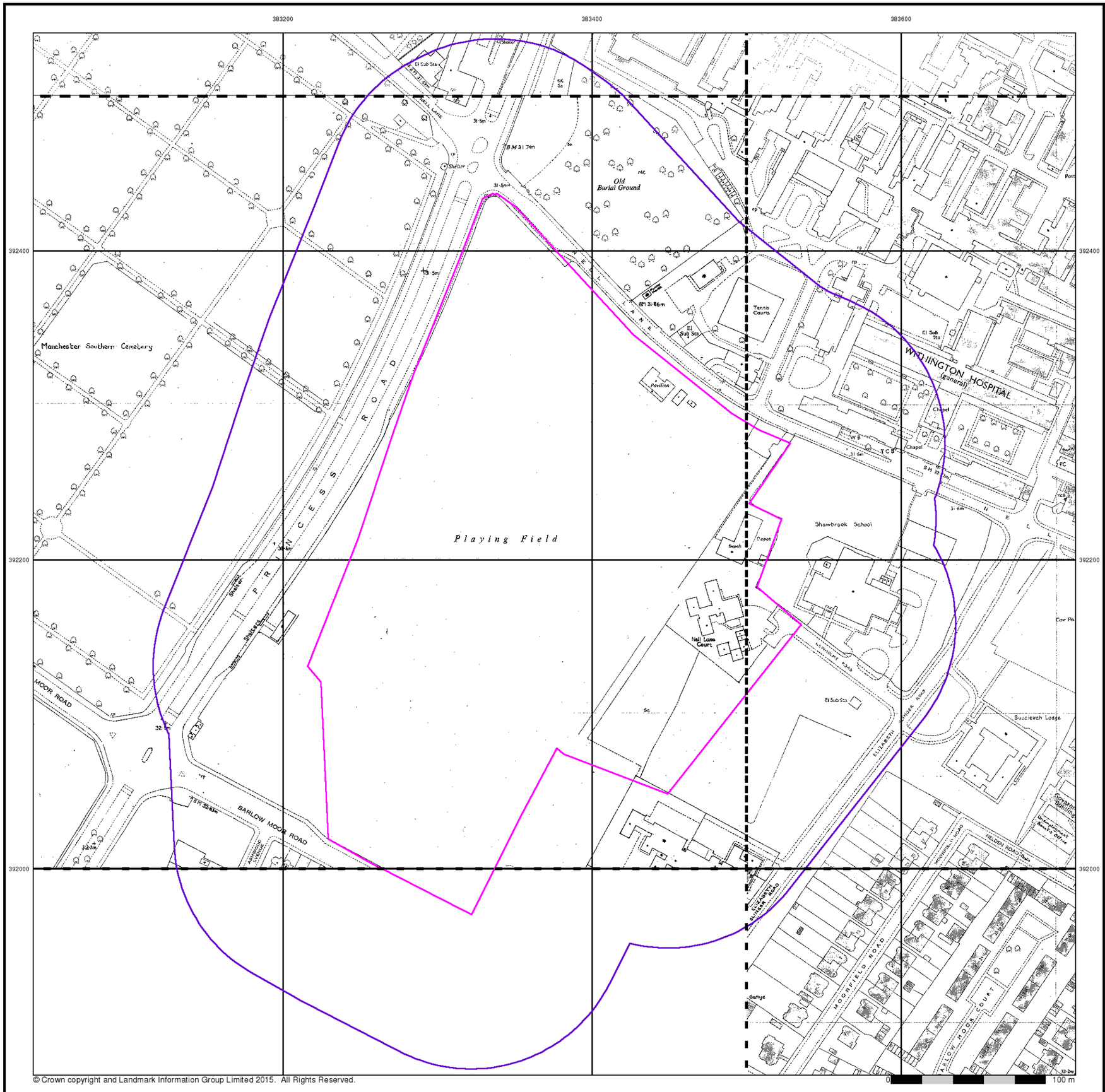
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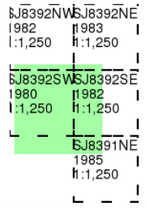
Additional SIMs

Published 1980 - 1985

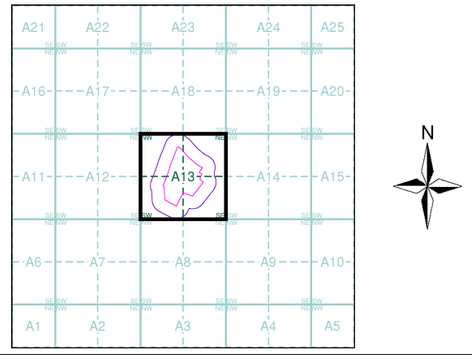
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

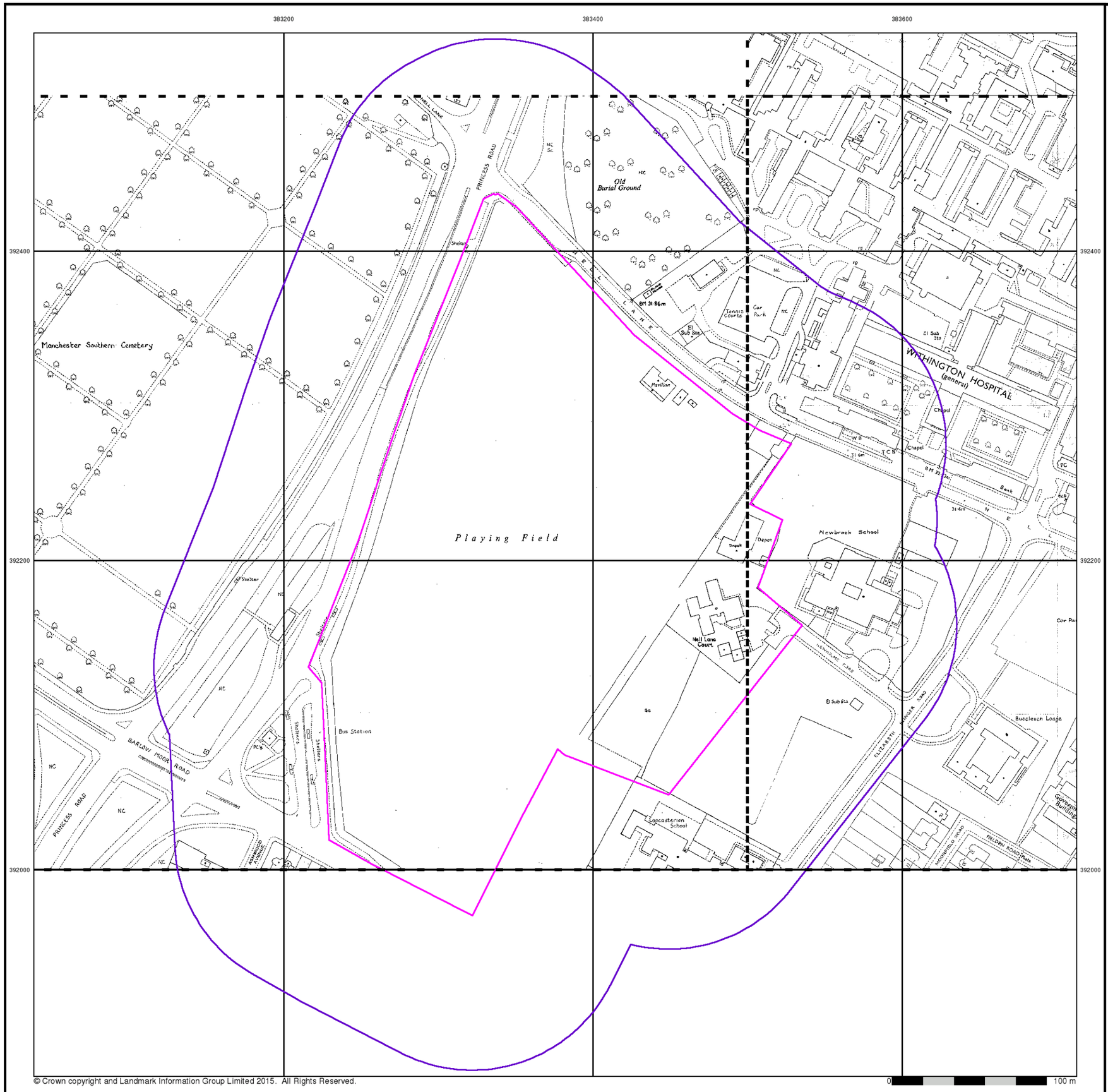
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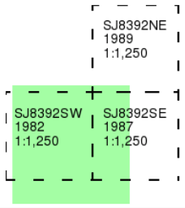
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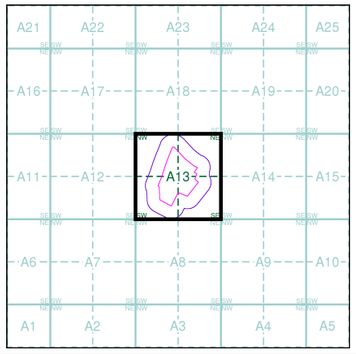
Source map scale - 1:1,250

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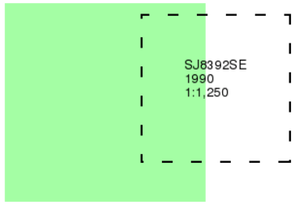
Ordnance Survey Plan

Published 1990

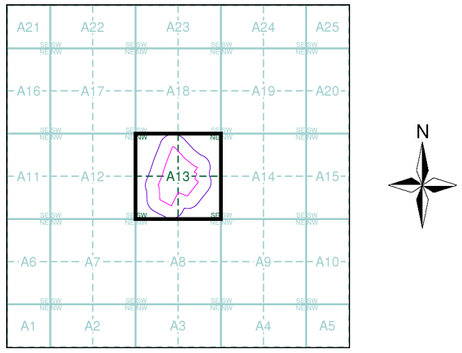
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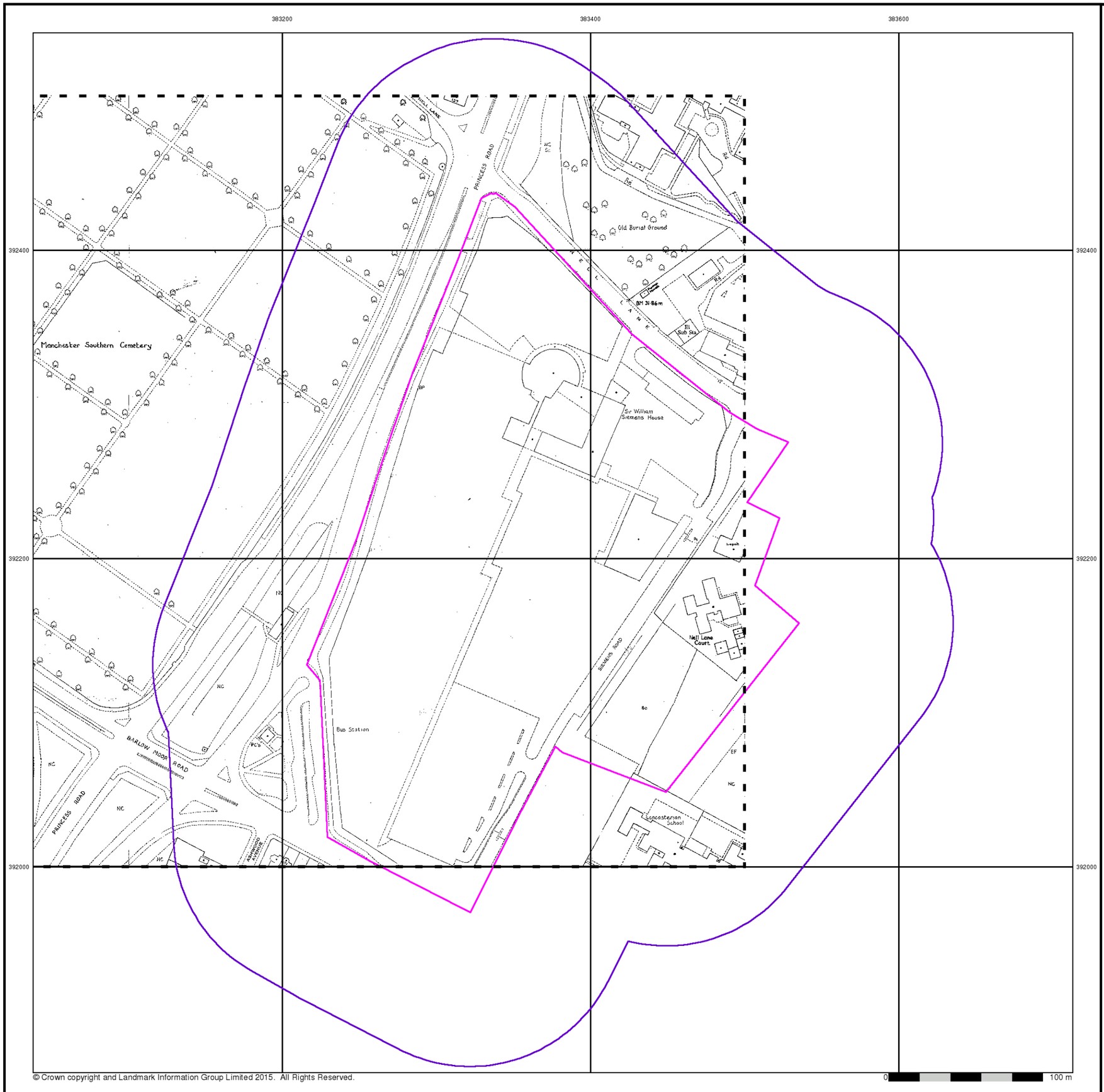
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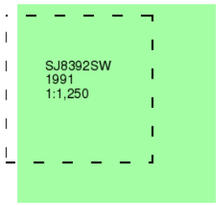
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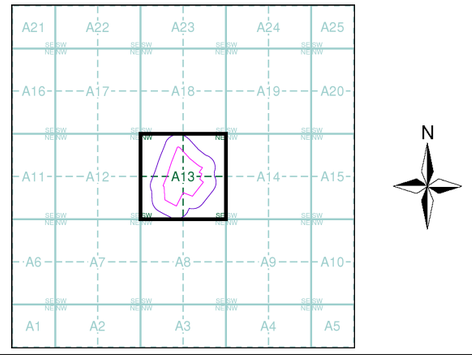
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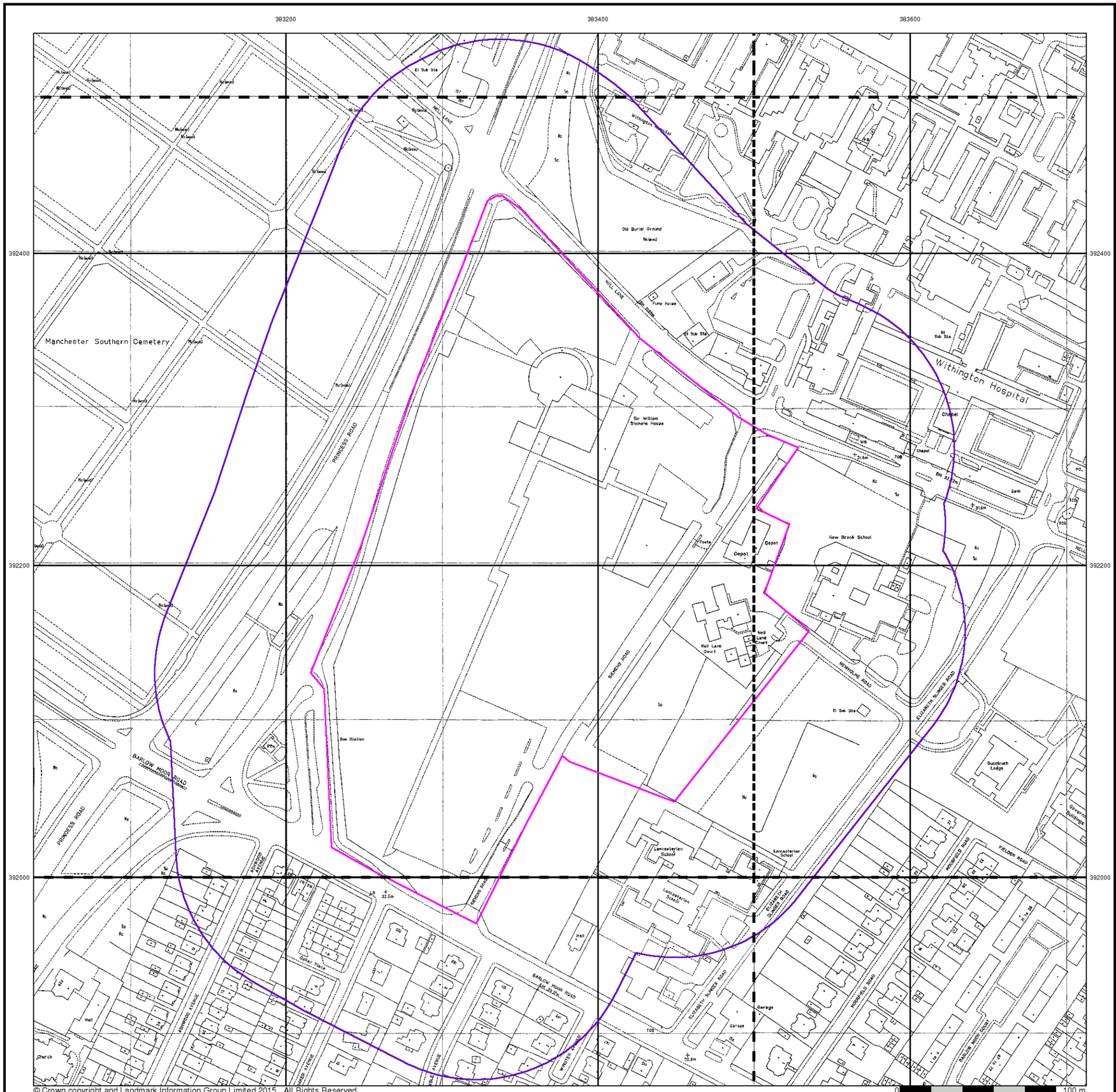
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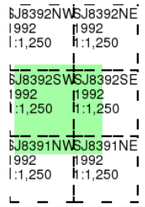
Large-Scale National Grid Data

Published 1992

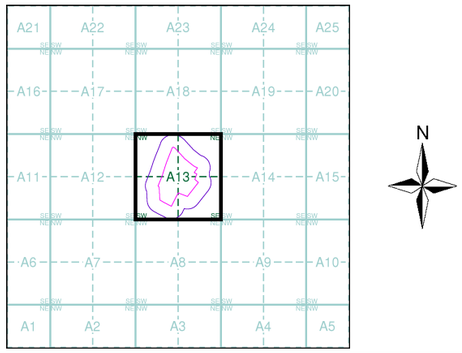
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

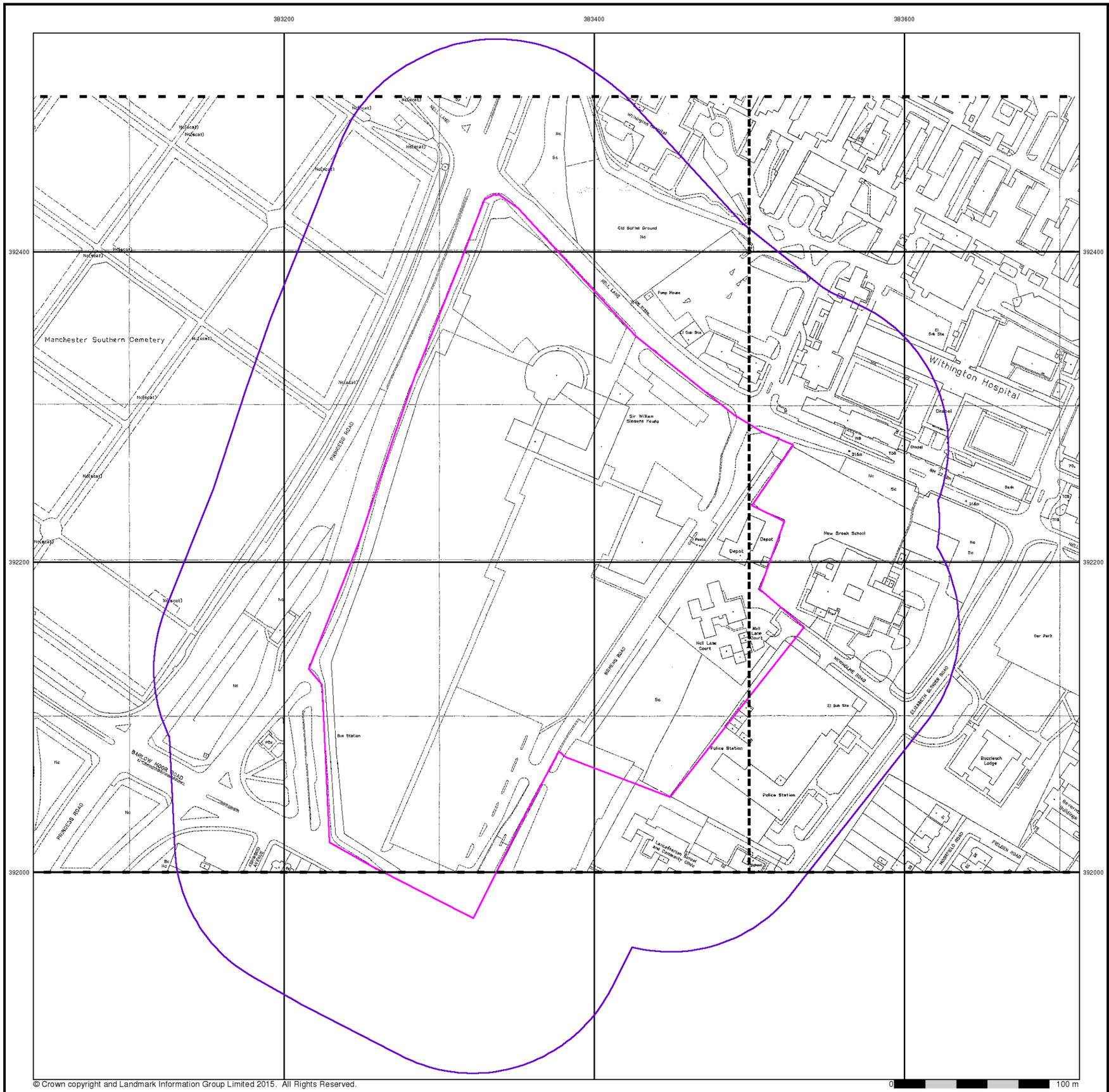
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Customer Ref:	41787
National Grid Reference:	383360, 392200
Slice:	A
Site Area (Ha):	8.61
Search Buffer (m):	100

Site Details

Siemens House,, Princess Road, Manchester, M20 2UR

Landmark Information Group

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



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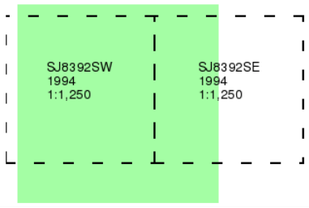
Large-Scale National Grid Data

Published 1994

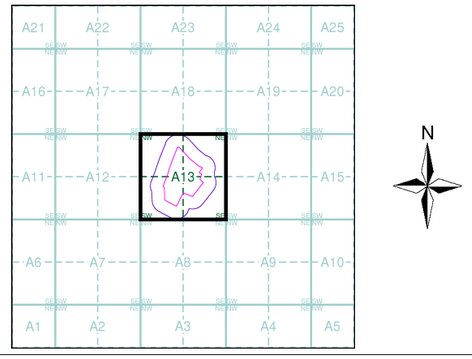
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. 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
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

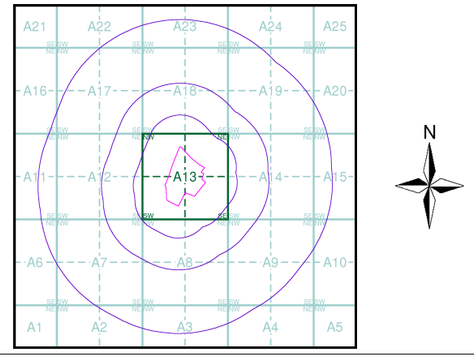
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894 - 1895	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908 - 1911	7
Cheshire	1:10,560	1911	8
Cheshire	1:10,560	1911	9
Lancashire And Furness	1:10,560	1923	10
Lancashire And Furness	1:10,560	1934	11
Cheshire	1:10,560	1938	12
Lancashire And Furness	1:10,560	1938	13
Ordnance Survey Plan	1:10,000	1955	14
Ordnance Survey Plan	1:10,000	1966	15
Manchester	1:25,000	1975	16
Ordnance Survey Plan	1:10,000	1981	17
Ordnance Survey Plan	1:10,000	1989	18
VectorMap Local	1:10,000	2015	19

Historical Map - Slice A



Order Details

Order Number: 73859724_1_1
Customer Ref: 41787
National Grid Reference: 383360, 392200
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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 Values for prominent elevations

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

0,2 Velocity of the current, width of river bed, depth of river

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

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Direction and velocity of current
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

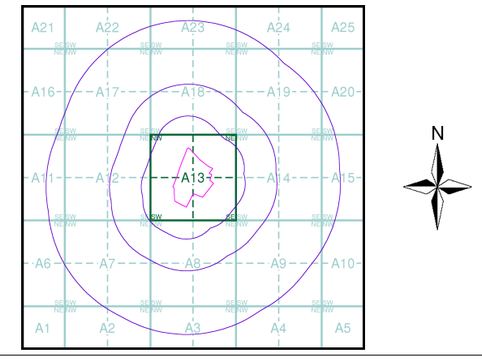
Key to Numbers on Mapping

IAN FARMER ASSOCIATES

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894 - 1895	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908 - 1911	7
Cheshire	1:10,560	1911	8
Cheshire	1:10,560	1911	9
Lancashire And Furness	1:10,560	1923	10
Lancashire And Furness	1:10,560	1934	11
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Manchester	1:25,000	1975	16
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Ordnance Survey Plan	1:10,000	1989	18
VectorMap Local	1:10,000	2015	19

Russian Map - Slice A



Order Details

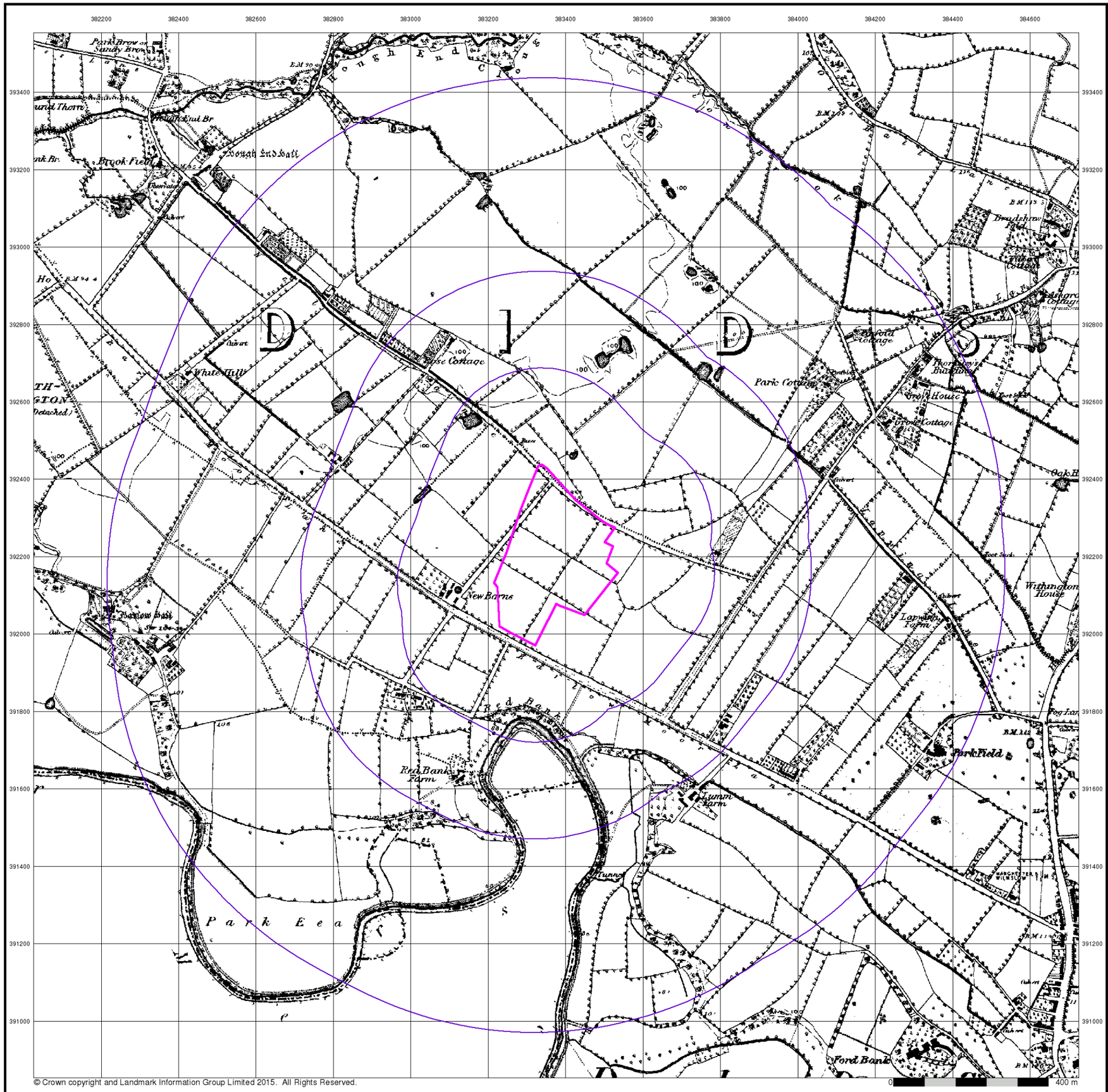
Order Number:	73859724_1_1
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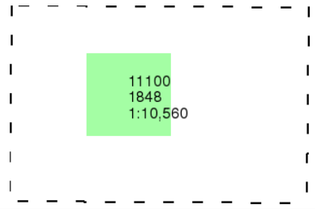
Lancashire And Furness

Published 1848

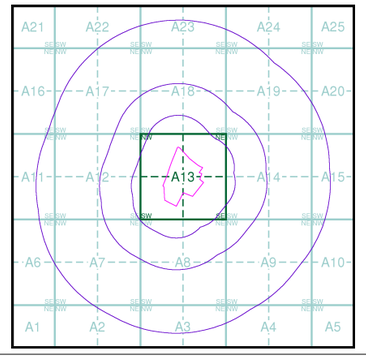
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

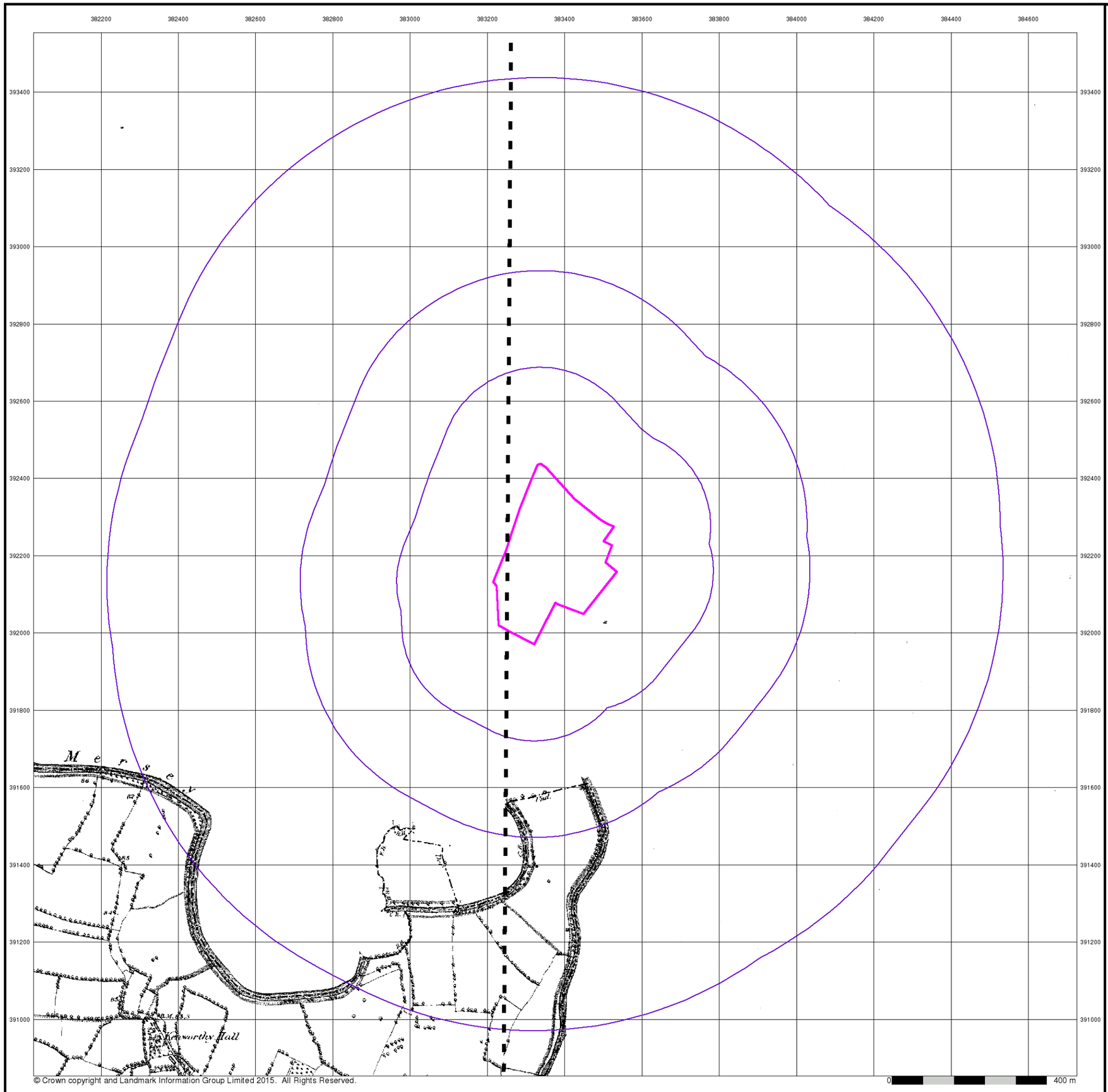
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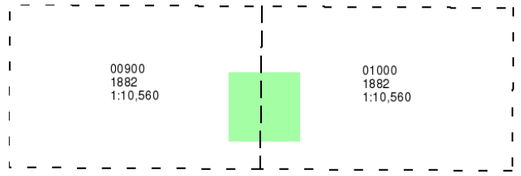
Cheshire

Published 1882

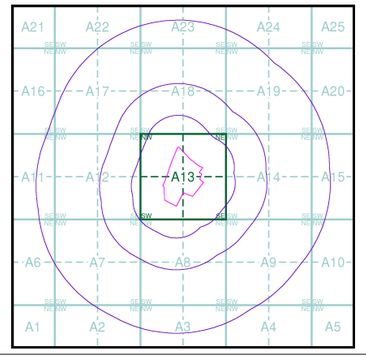
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

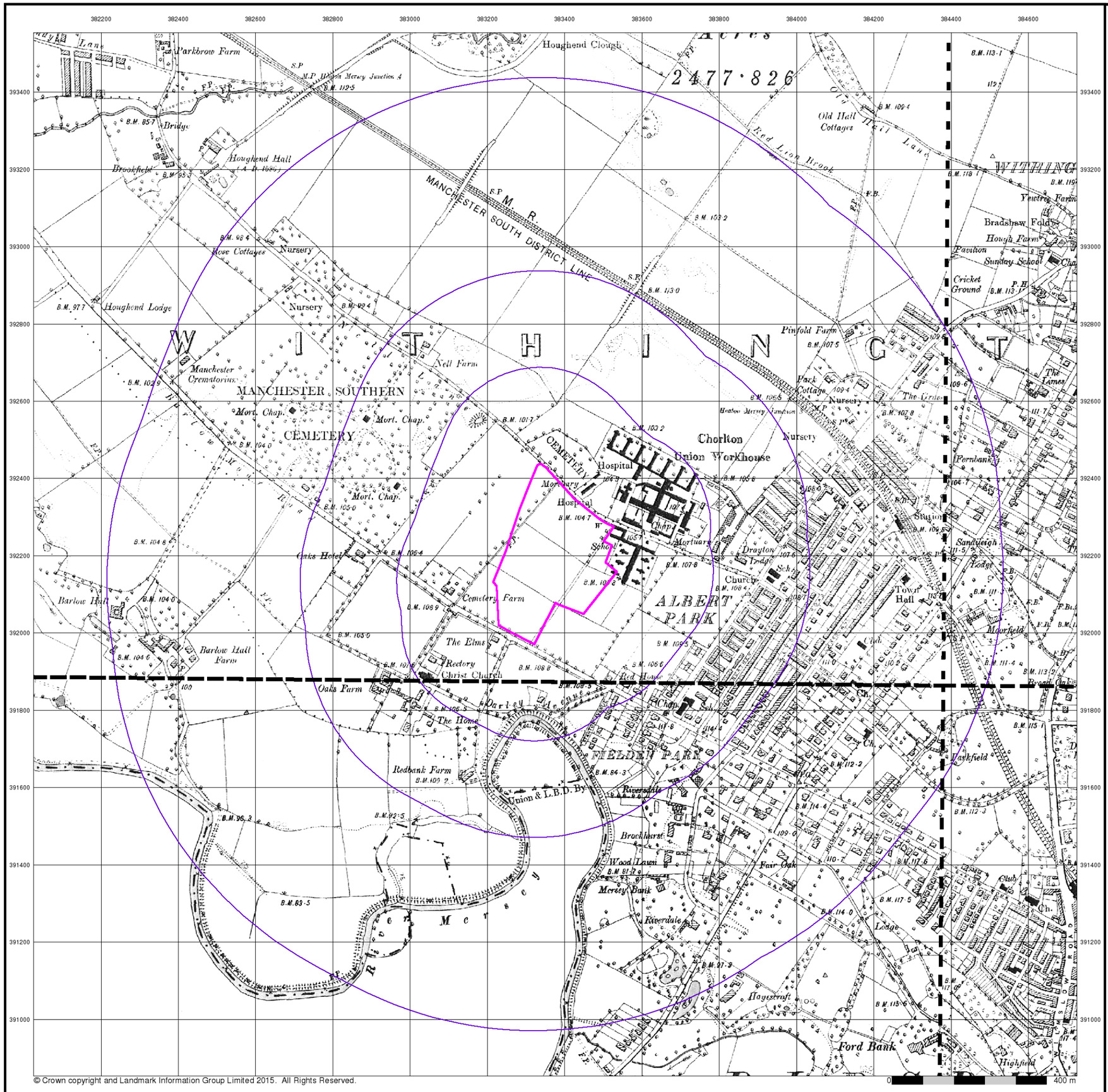
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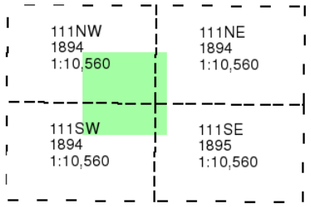
Lancashire And Furness

Published 1894 - 1895

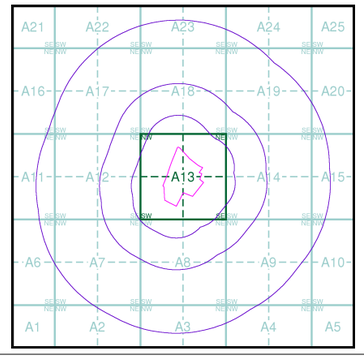
Source map scale - 1:10,560

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Historical Map - Slice A



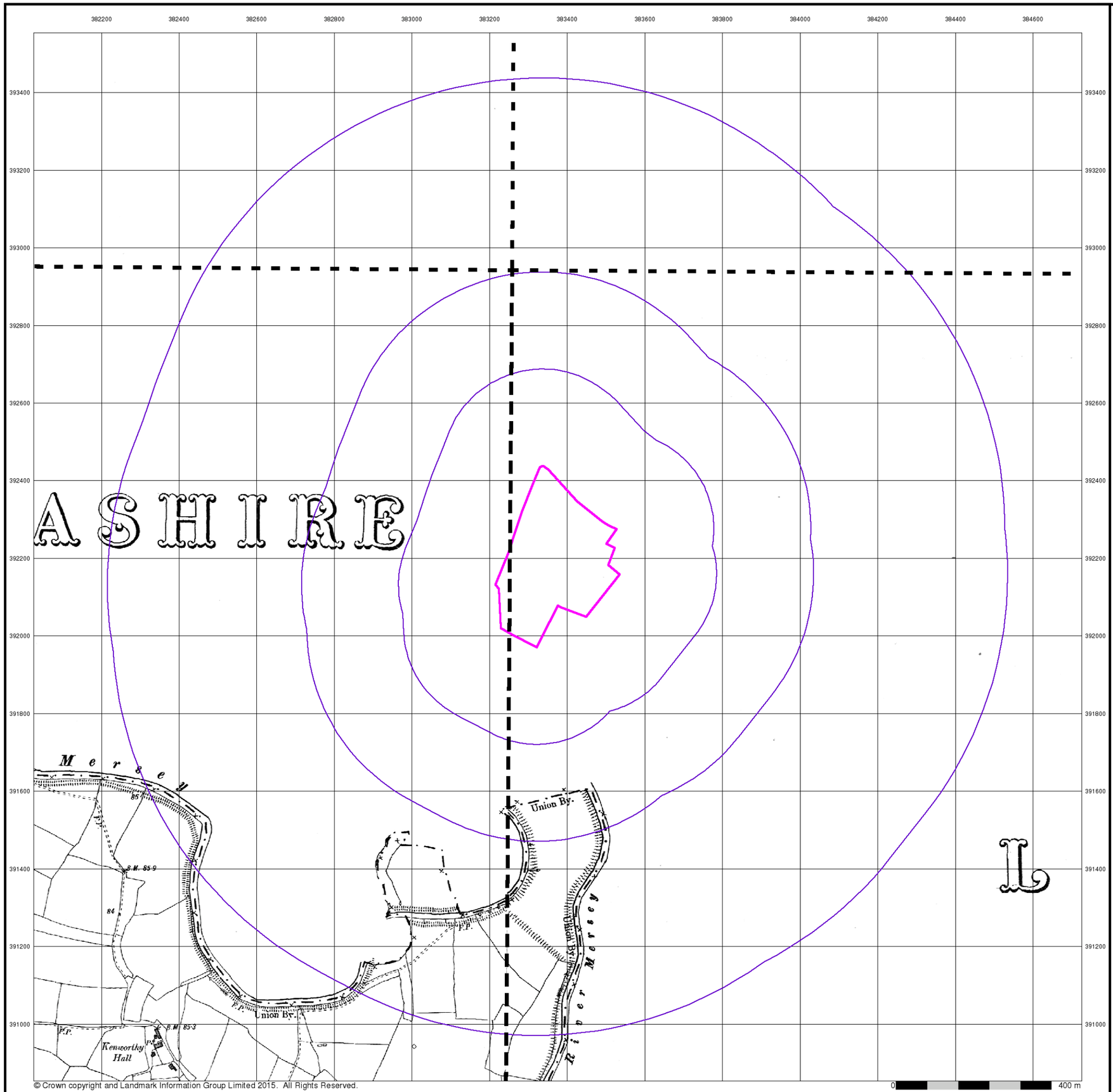
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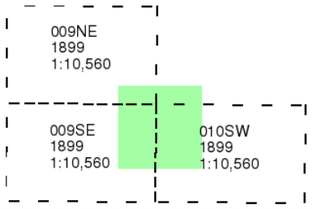
Cheshire

Published 1899

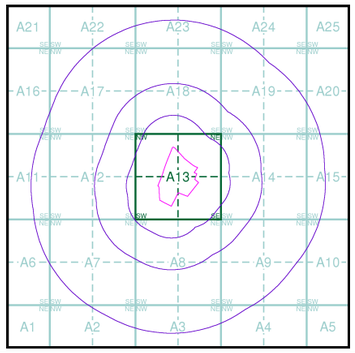
Source map scale - 1:10,560

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Historical Map - Slice A



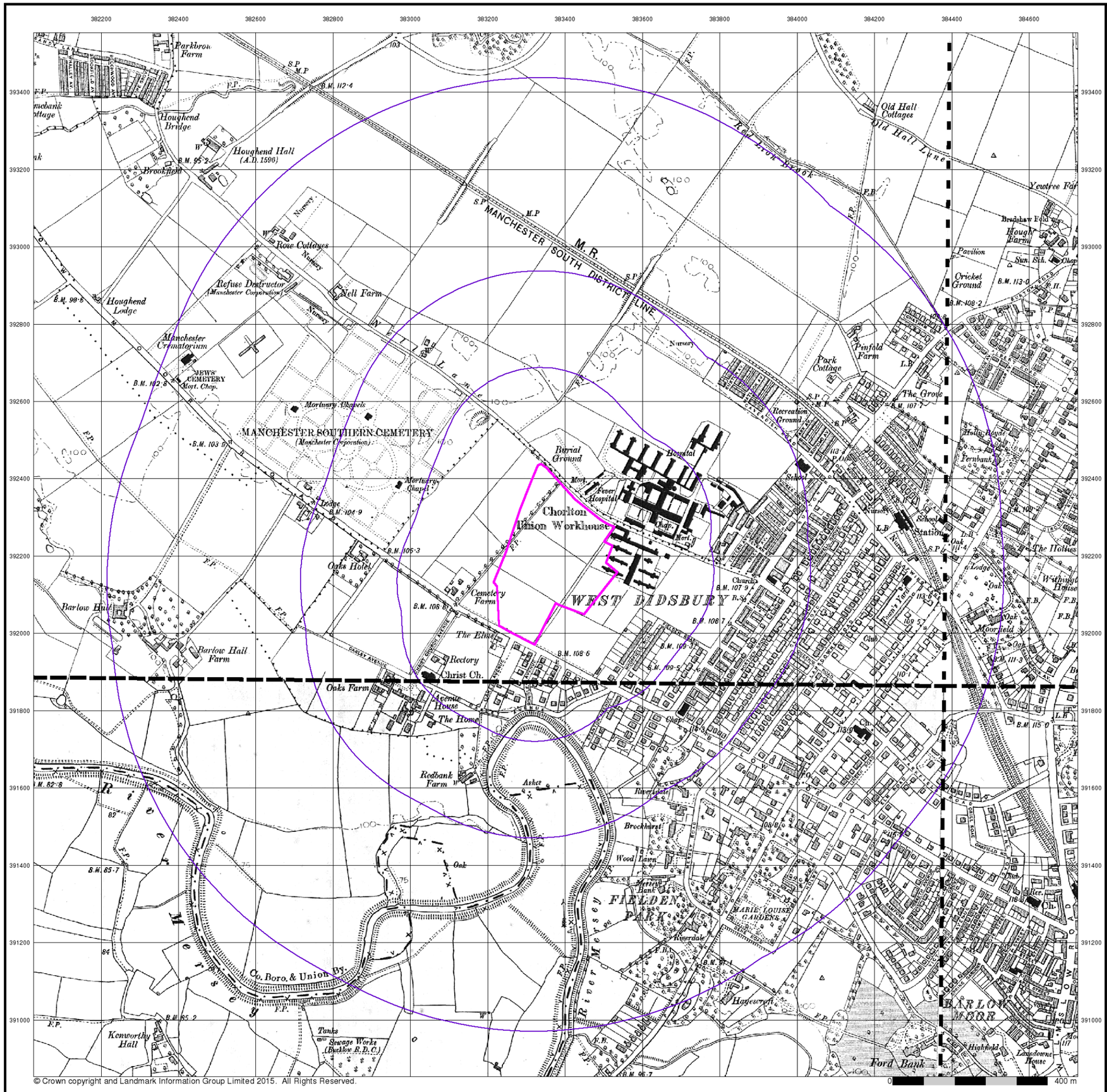
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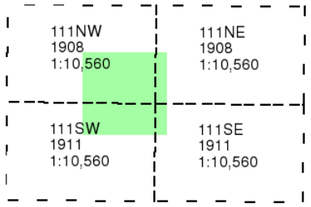
Lancashire And Furness

Published 1908 - 1911

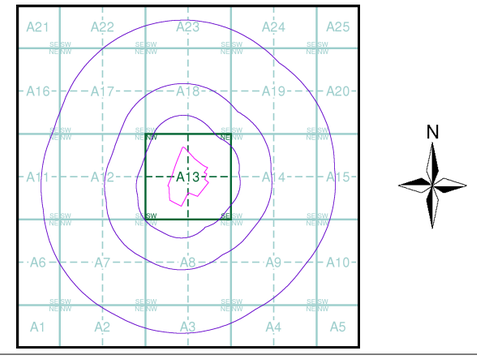
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



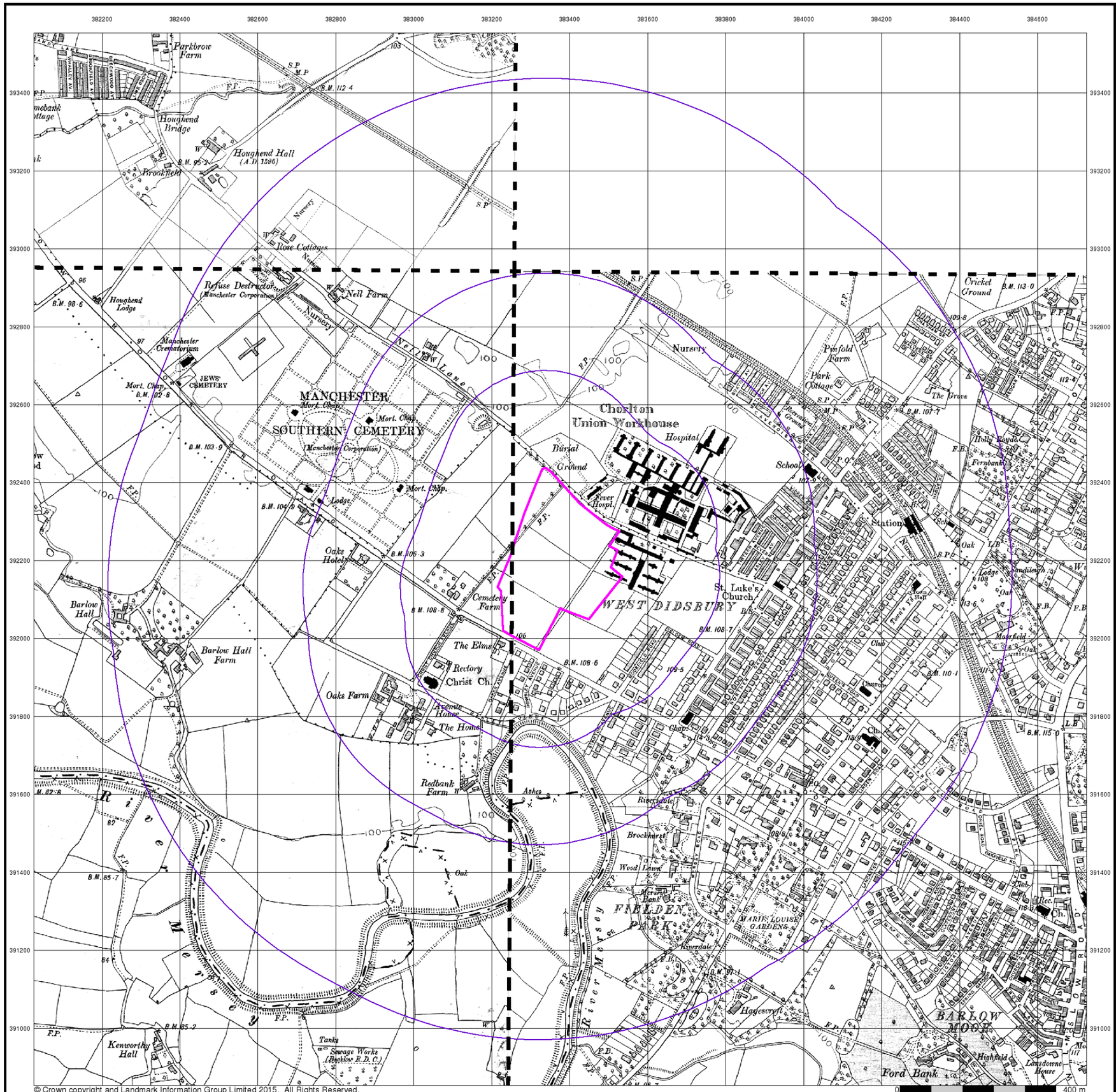
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Slice:	A
Site Area (Ha):	8.61
Search Buffer (m):	1000

Site Details

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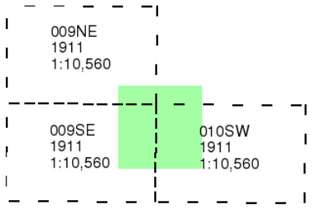
Cheshire

Published 1911

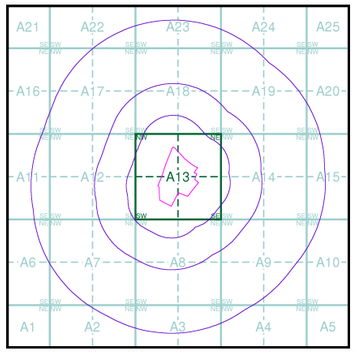
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Map Name(s) and Date(s)



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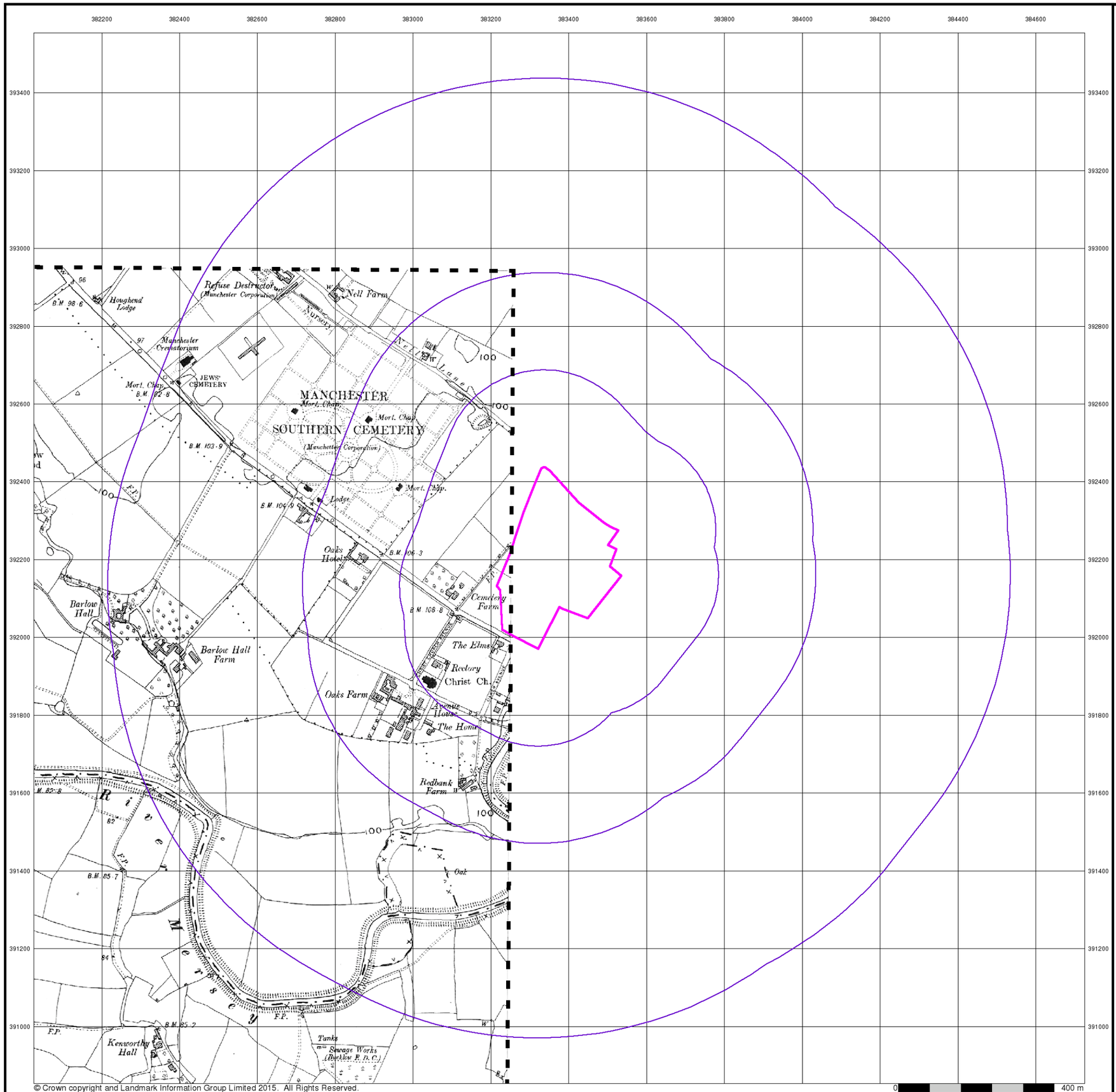
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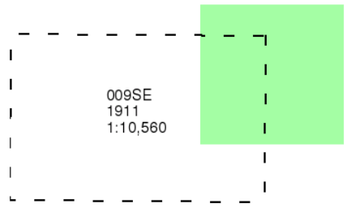
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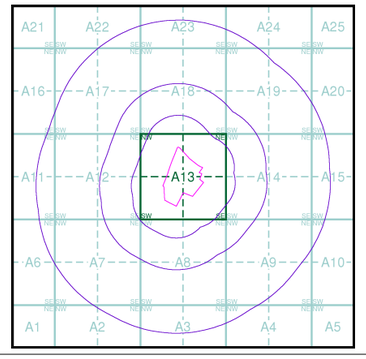
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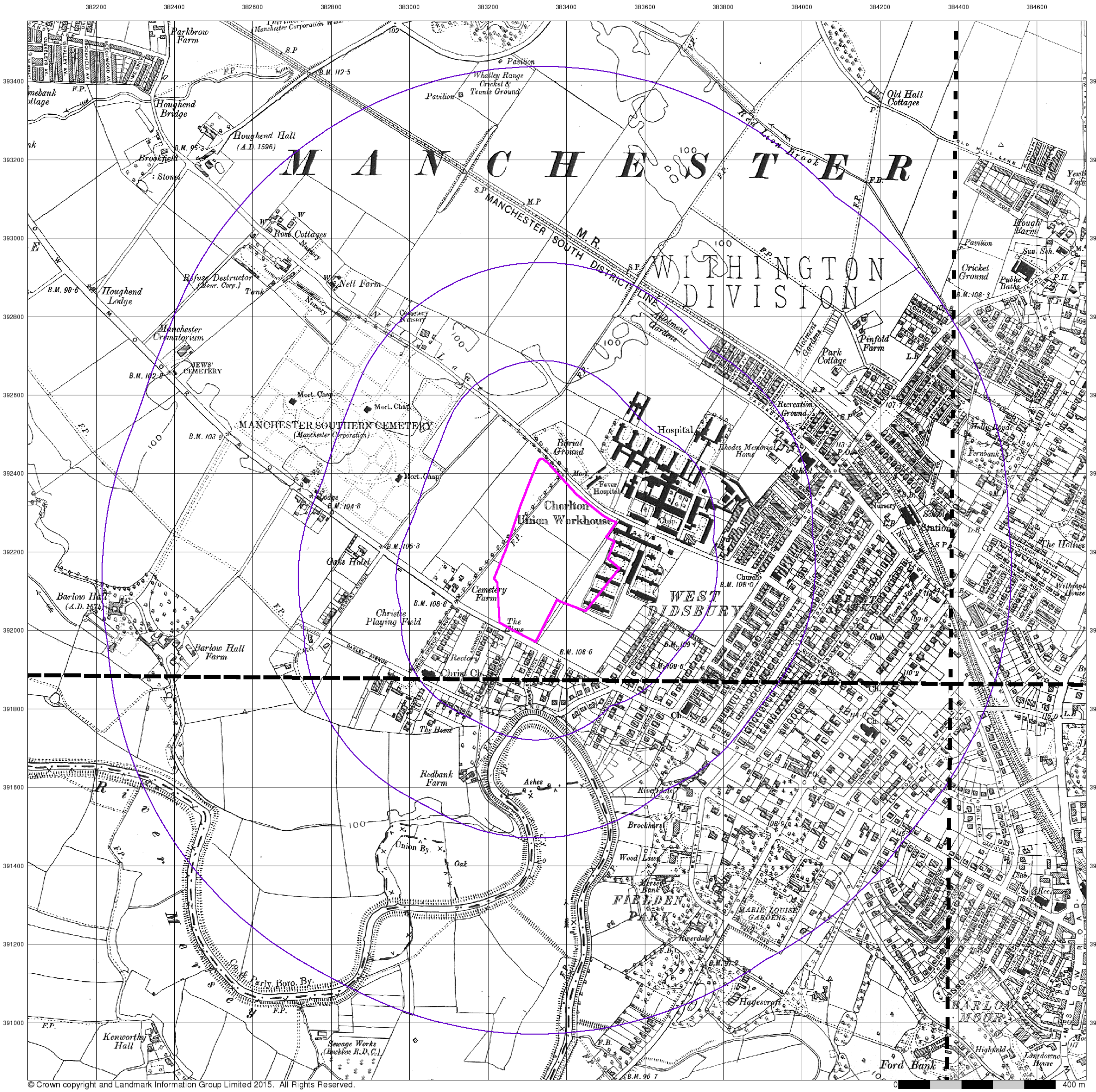
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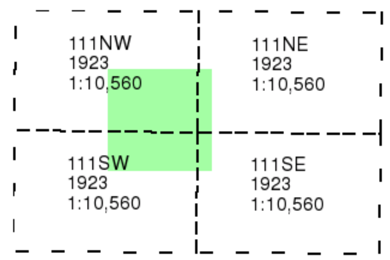
Lancashire And Furness

Published 1923

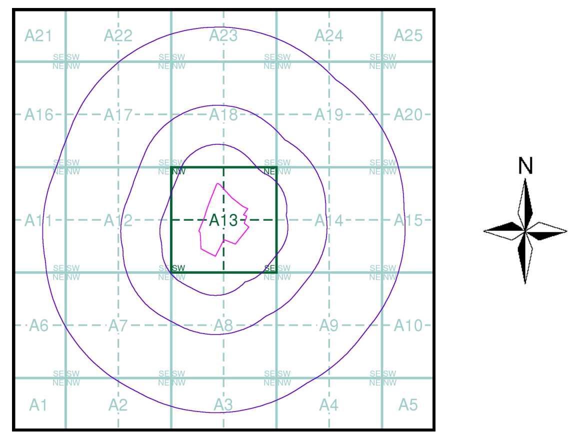
Source map scale - 1:10,560

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Historical Map - Slice A



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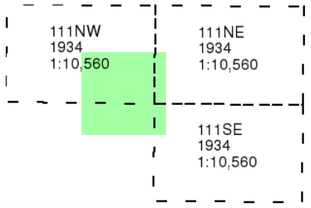
Lancashire And Furness

Published 1934

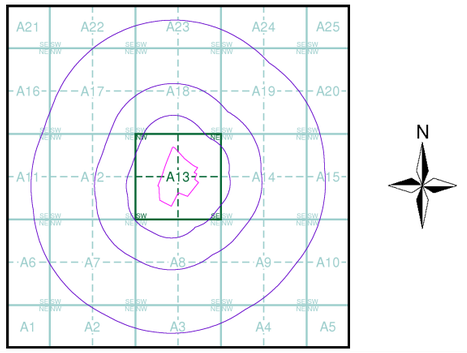
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Map Name(s) and Date(s)



Historical Map - Slice A



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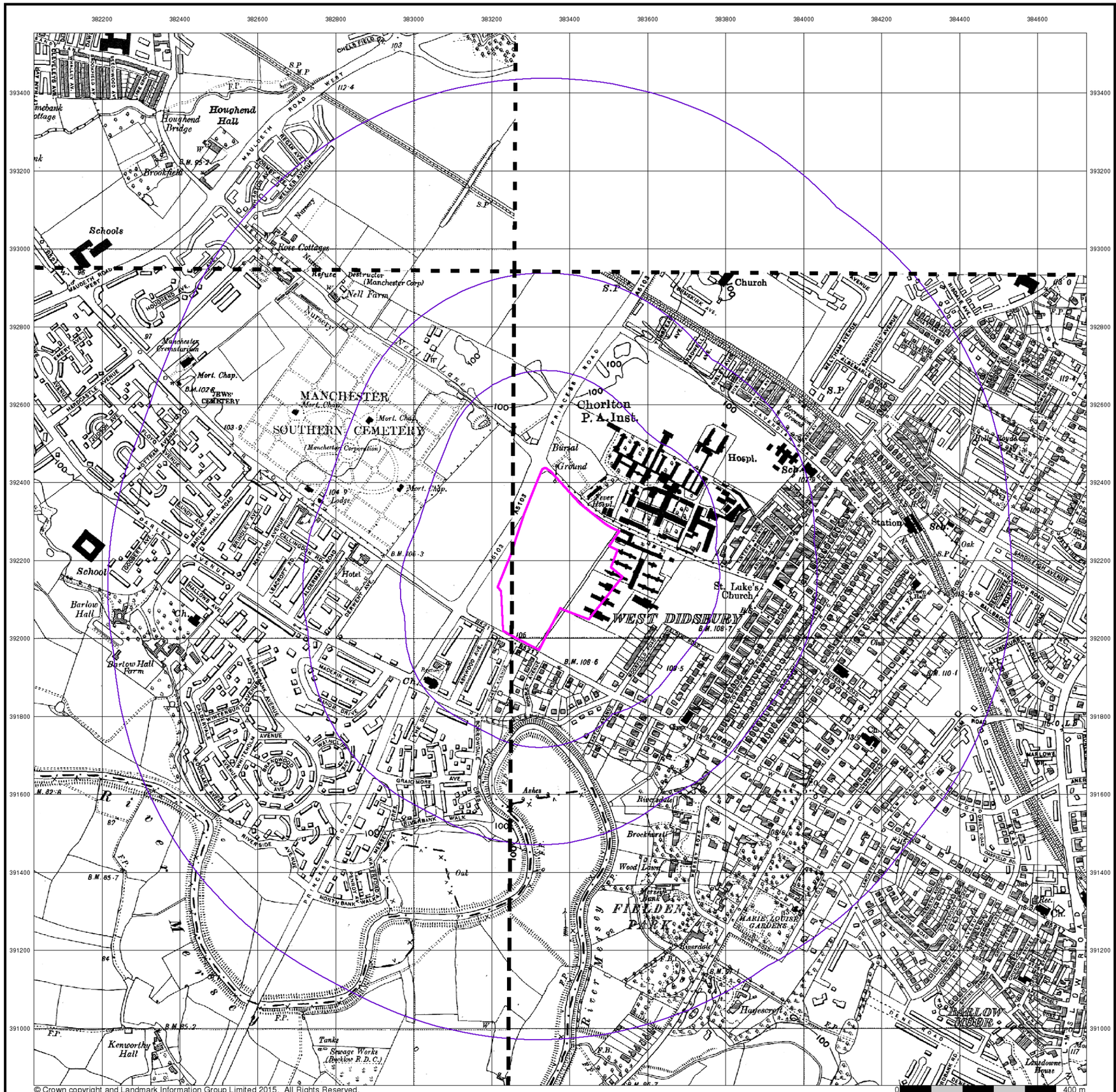
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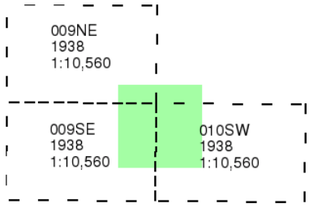
Cheshire

Published 1938

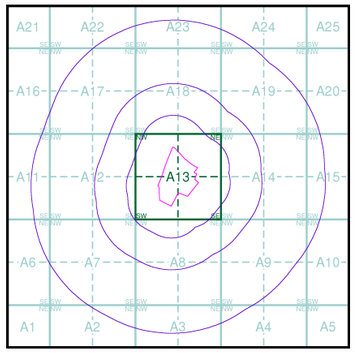
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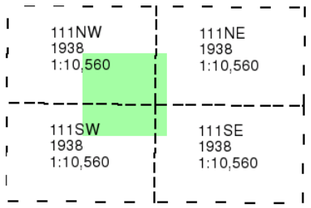
Lancashire And Furness

Published 1938

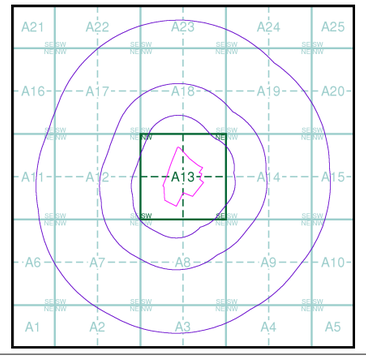
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Historical Map - Slice A



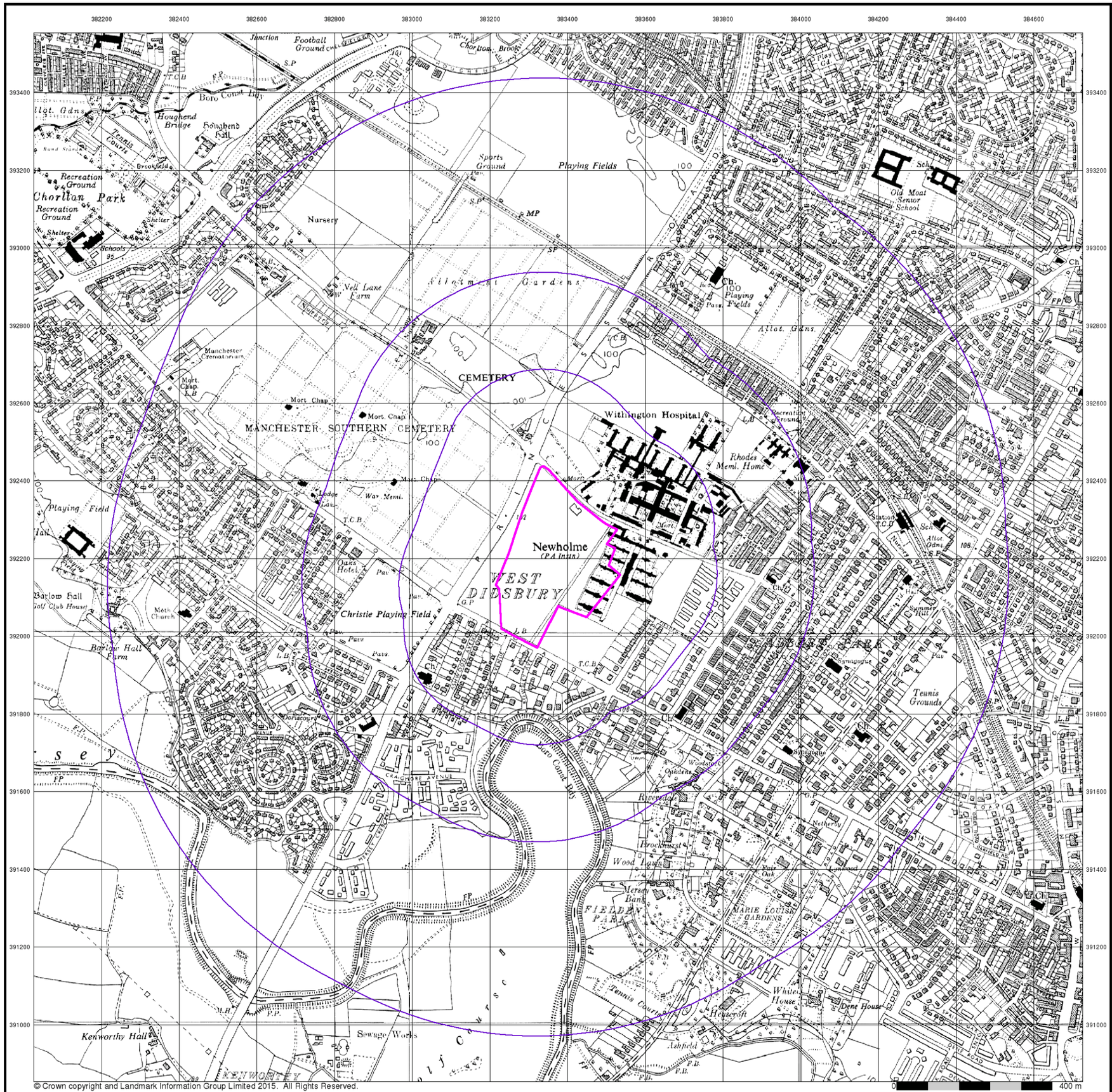
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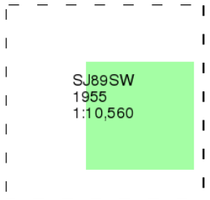
Ordnance Survey Plan

Published 1955

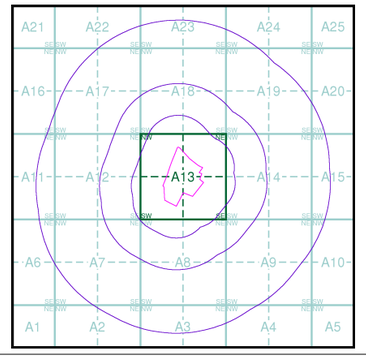
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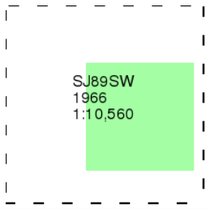
Ordnance Survey Plan

Published 1966

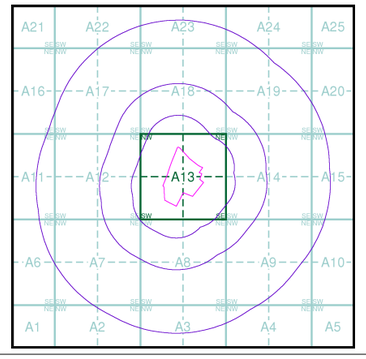
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Manchester

Published 1975

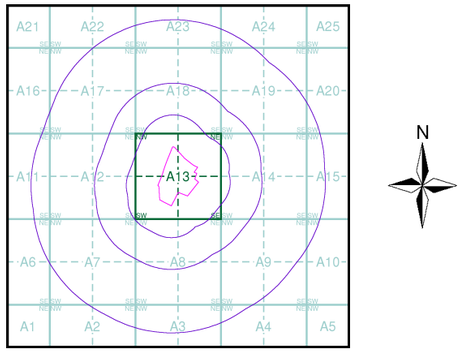
Source map scale - 1:25,000

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

Map Name(s) and Date(s)



Russian Map - Slice A



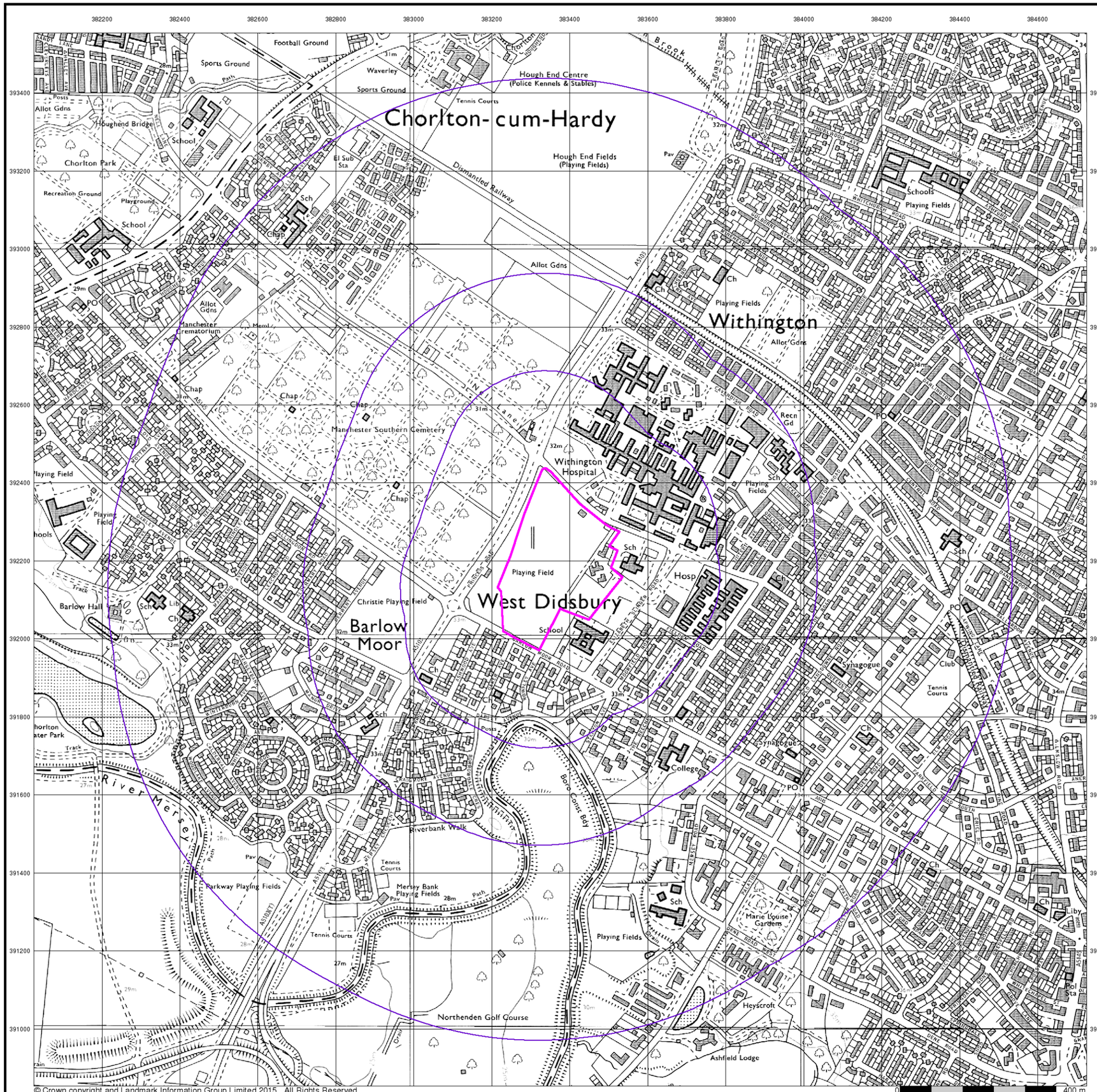
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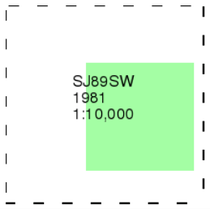
Ordnance Survey Plan

Published 1981

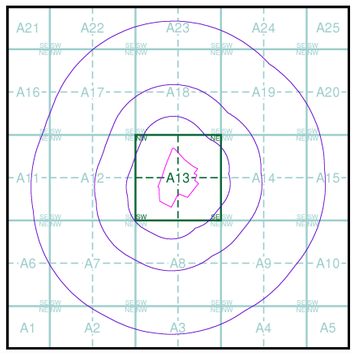
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Historical Map - Slice A



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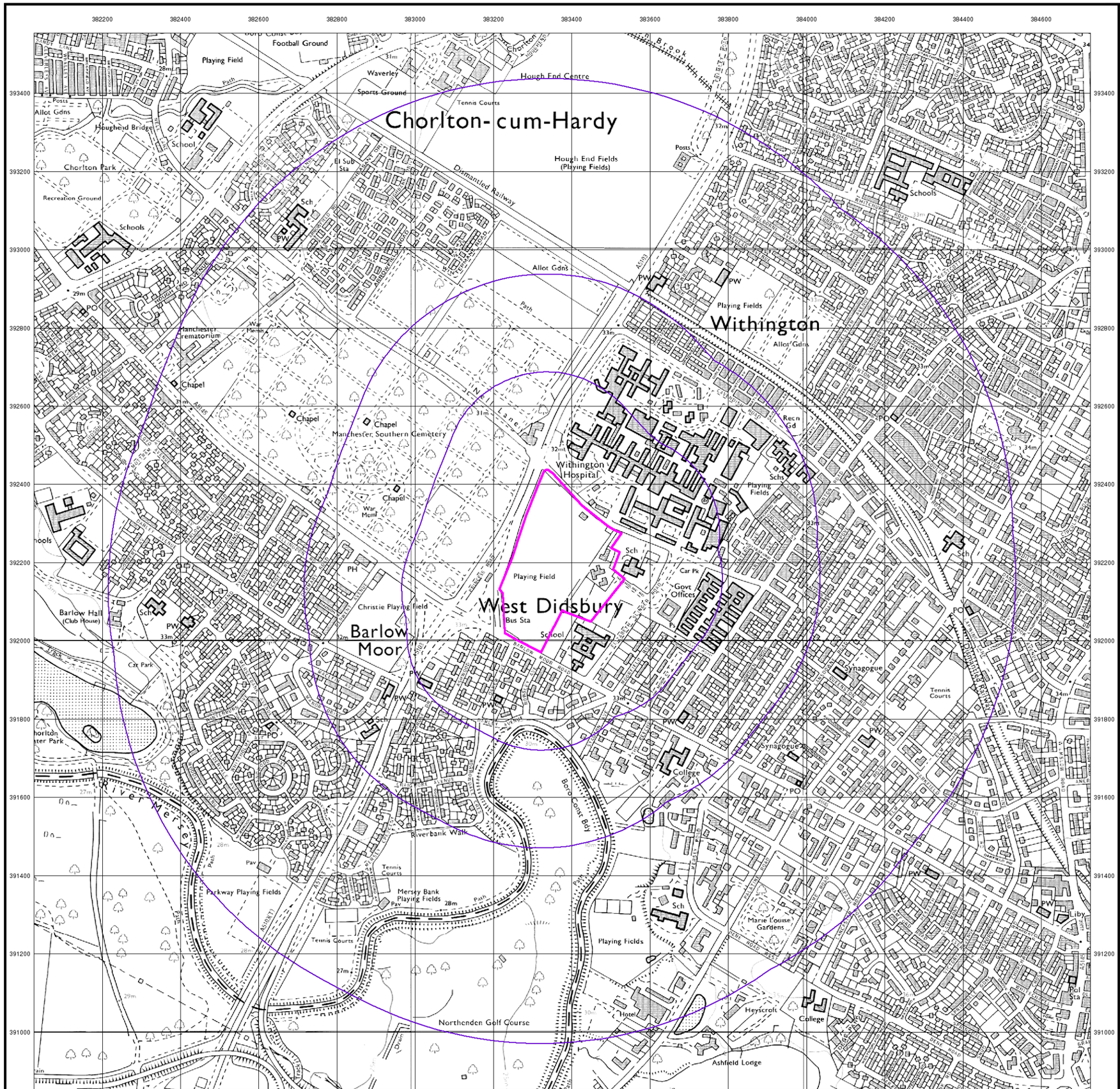
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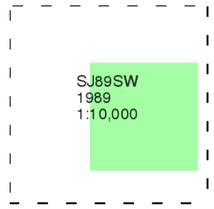
Ordnance Survey Plan

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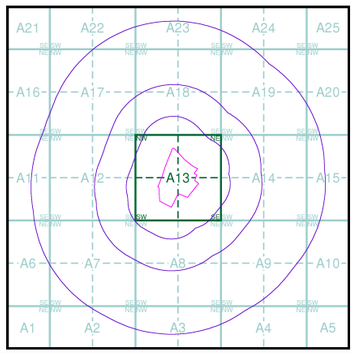
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

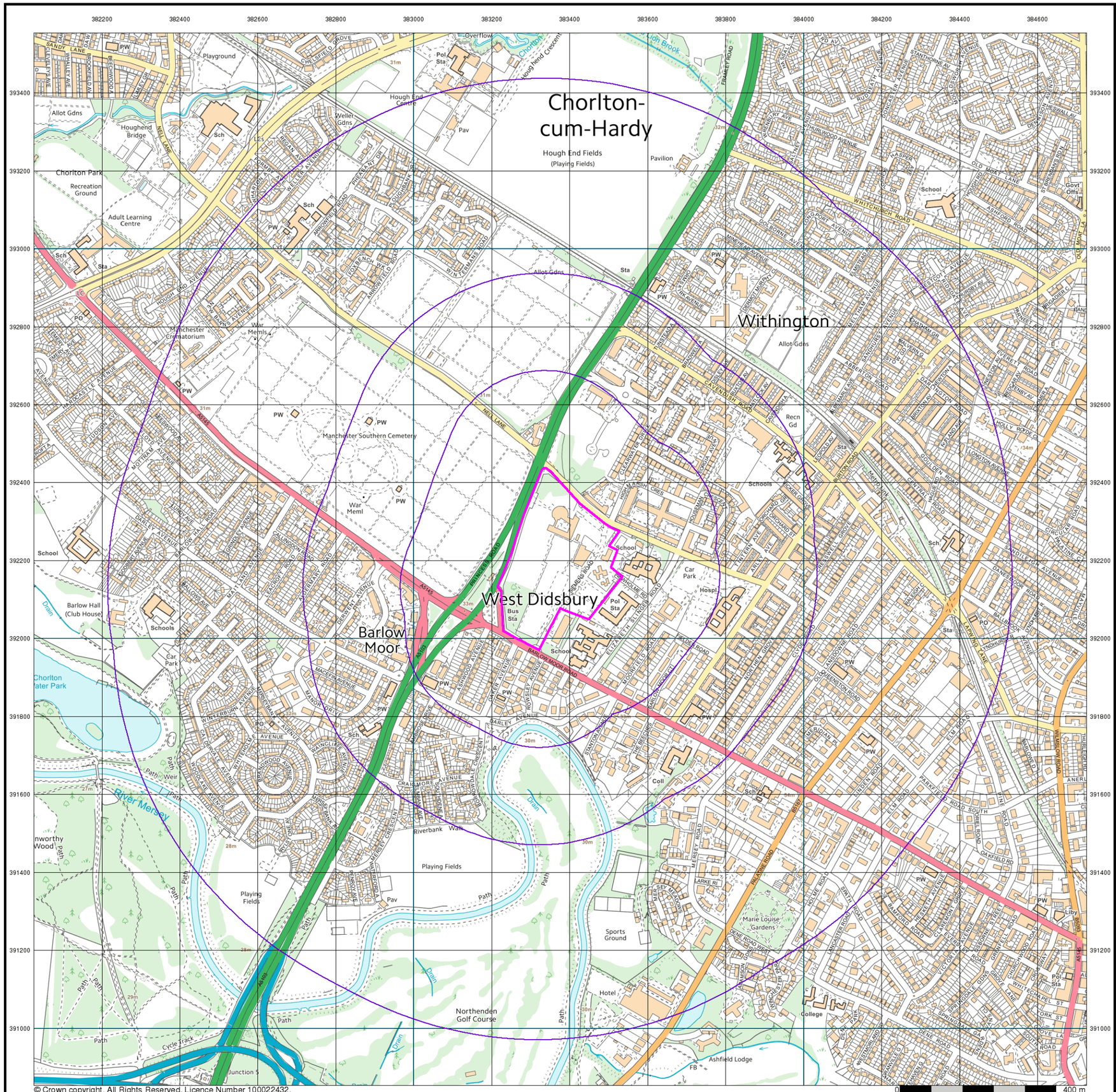
Order Number:	73859724_1_1
Customer Ref:	41787
National Grid Reference:	383360, 392200
Slice:	A
Site Area (Ha):	8.61
Search Buffer (m):	1000

Site Details

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Fax: 0844 844 9951
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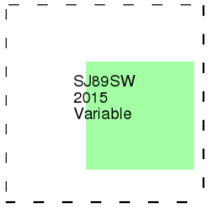
VectorMap Local

Published 2015

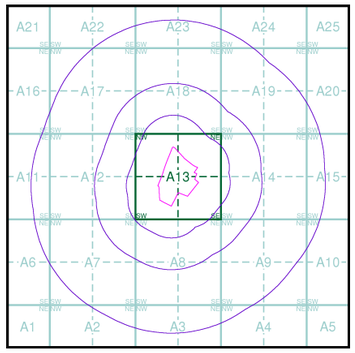
Source map scale - 1:10,000

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:	73859724_1_1
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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
73859724_1_1

Customer Reference:
41787

National Grid Reference:
383360, 392200

Slice:
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Site Area (Ha):
8.61

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

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Report Version v50.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	9	1
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3			1	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 4		1	1	5
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 5		4		
River Quality	pg 6			1	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				2 (*3)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 8		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 8		Yes	n/a	n/a
Detailed River Network Lines	pg 8		Yes		n/a
Detailed River Network Offline Drainage					n/a

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Summary

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BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 9				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 10				1
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 11	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 11	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 16		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

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 23				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Rowsley, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: River Mersey (Etherow) Reference: 01man0244 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 16th February 2005 Revocation Date: 24th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Consent Currently Under Appeal** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	193	2	383290 391780
1	**Discharge Consents** Operator: United Utilities Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Rowsley, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: River Mersey (Etherow) Reference: 01MAN0244 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8NW (S)	193	2	383290 391780
2	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Rowsley, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: River Mersey (Etherow) Reference: 01man0244 Permit Version: 3 Effective Date: 25th March 2010 Issued Date: 25th March 2010 Revocation Date: 30th September 2011 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	280	2	383220 391710
2	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Rowsley, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: River Mersey (Etherow) Reference: 01man0244 Permit Version: 4 Effective Date: 1st October 2011 Issued Date: 25th March 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	280	2	383220 391710

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Burton Rd/Lapwing Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0237 Permit Version: 3 Effective Date: 25th March 2010 Issued Date: 25th March 2010 Revocation Date: 31st March 2012 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Burton Rd/Lapwing Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0237 Permit Version: 4 Effective Date: 1st April 2012 Issued Date: 25th March 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Palatine Rd Cso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0236 Permit Version: 3 Effective Date: 15th October 2008 Issued Date: 15th October 2008 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Palatine Rd Cso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0236 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 16th February 2005 Revocation Date: 14th October 2008 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: Sewerage Network - Sewers - Water Company Location: Burton Rd/Lapwing Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0237 Permit Version: 2 Effective Date: 31st March 2007 Issued Date: 16th February 2005 Revocation Date: 24th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Burton Rd/Lapwing Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0237 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A8NE (S)	377	2	383460 391620
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Barlow Moor Rd/Palatine Rd Cso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0236 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Mersey **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8NE (S)	382	2	383460 391615
4	**Discharge Consents** Operator: A F Hipkins Property Type: Not Given Location: The Summer House, Long Common, Bridgnorth Road, BOBBINGTON Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: WQ/72/1887 /1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st June 1978 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Groundwater Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A23SW (N)	973	2	383200 393400
5	**Local Authority Pollution Prevention and Controls** Name: Parkway Service Station Location: Princess Parkway, West Didsbury, MANCHESTER, Lancashire, M20 1HD Authority: Manchester City Council, Environmental Health Department Permit Reference: Pfs/61/98 Dated: 12th January 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	349	3	382971 391785

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Local Authority Pollution Prevention and Controls** Name: Texaco Mersey Lights Service Station Location: 849 Princess Road, West Didsbury, MANCHESTER, Lancashire, M20 8ZF Authority: Manchester City Council, Environmental Health Department Permit Reference: PFS/30/98 & 62/99 Dated: 7th December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	627	3	382860 391513
7	**Local Authority Pollution Prevention and Controls** Name: The Manchester Crematorium Ltd Location: Barlow Moor Road, MANCHESTER, Lancashire, M21 7GZ Authority: Manchester City Council, Environmental Health Department Permit Reference: PCC/B/11/05/AW Dated: 11th December 1991 Process Type: Local Authority Air Pollution Control Description: PG5/2 Crematoria **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	945	3	382424 392713
	Nearest Surface Water Feature	A8NW (S)	191	-	383290 391783
8	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Tributary Bollin Incident Date: 18th September 1995 Incident Reference: 95512356 Catchment Area: Bollin Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	228	2	383500 392600
9	**Pollution Incidents to Controlled Waters** Property Type: Natural Sources Location: River Mersey, Darley Avenue, WEST DIDSBURY, Greater Manchester Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Natural Organic Material Note: Not Supplied Incident Date: 17th July 1999 Incident Reference: 30248 Catchment Area: River Mersey (Etherow) Receiving Water: River Stretch (Freshwater) Cause of Incident: Unauthorised Activity : Flytipping: MOU Response D Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A8NW (S)	272	2	383300 391700
10	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: WEST DIDSBURY, Merseyside Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Engine Oil/Petrol Incident Date: 17th August 1997 Incident Reference: 97511498 Catchment Area: Mersey - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	790	2	382900 391300
11	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: River Mersey Incident Date: 18th March 1995 Incident Reference: 95510562 Catchment Area: Mersey - Non-Tidal 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	A7SW (SW)	896	2	382500 391500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Pollution Incidents to Controlled Waters** Property Type: Road Location: M60 Motorway, Near Princess Parkway, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Lorry On Fire Incident Date: 12th May 1998 Incident Reference: SO980829 Catchment Area: Mersey - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	925	2	382800 391200
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: River Mersey; Diesel Incident Date: 28th February 1996 Incident Reference: 96510365 Catchment Area: Mersey - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (W)	926	2	382300 392000
14	**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: Not Supplied Incident Date: 16th November 1995 Incident Reference: 95512819 Catchment Area: Mersey - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	957	2	382500 391400
15	**Registered Radioactive Substances** Name: South Manchester University Hospitals Nhs Trust Location: Withington Hospital, Nell Lane, West Didsbury, MANCHESTER, M20 8LR Authority: Environment Agency, North West Region Permit Reference: AB2262 Dated: 14th September 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of multiple open sources which are also the subject of authorisations **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	108	2	383630 392311
15	**Registered Radioactive Substances** Name: University Hospital Of South Manchester Nhs Foundation Trust Location: Withington Hospital, Nell Lane, West Didsbury, MANCHESTER, M20 8LR Authority: Environment Agency, North West Region Permit Reference: AB9763 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	108	2	383630 392311
15	**Registered Radioactive Substances** Name: University Hospital Of South Manchester Nhs Foundation Trust Location: Withington Hospital, Nell Lane, West Didsbury, MANCHESTER, Greater Manchester, M20 2LR Authority: Environment Agency, North West Region Permit Reference: AO3589 Dated: 30th September 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation either revoked or cancelledCancelled** Positional Accuracy: Unknown	A13NE (NE)	113	2	383635 392311

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: University Hospital Of South Manchester Nhs Foundation Trust Location: Withington Hospital, Nell Lane, West Didsbury, MANCHESTER, Greater Manchester, M20 2LR Authority: Environment Agency, North West Region Permit Reference: AO3562 Dated: 29th September 1994 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is not the subject of an authorisation, or an application for an authorisation **Status: Authorisation either revoked or cancelledCancelled** Positional Accuracy: Unknown	A13NE (NE)	115	2	383635 392316
	River Quality Name: Mersey GQA Grade: River Quality D Reach: Stockport Stw To Princess Parkway Estimated Distance (km): 8.9 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A8NW (S)	295	2	383363 391676
	River Quality Name: Chorlton Bk GQA Grade: River Quality B Reach: Cringle Bk To Mersey Estimated Distance (km): 4.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18NW (N)	744	2	383192 393167
	River Quality Name: Mersey GQA Grade: River Quality D Reach: Princess Parkway To Carrington Estimated Distance (km): 17.6 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A7SW (SW)	987	2	382439 391430
16	**Water Abstractions** Operator: Chorlton Cum Hardy Golf Co Ltd Licence Number: 2569015015 Permit Version: 101 Location: Borehole At Chorlton-Cum-Hardy Golf Club Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct 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 Chorlton-Cum-Hardy Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	987	2	382230 392100
16	**Water Abstractions** Operator: The Secretary Licence Number: 2569015015 Permit Version: 100 Location: Borehole At Chorlton-Cum-Hardy Golf Club Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 70 Yearly Rate (m3): 8500 Details: Land At Chorlton-Cum-Hardy Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 4th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	987	2	382230 392100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Amec / Alfred Mcalpine Jv Licence Number: 2569015016 Permit Version: 1 Location: River Mersey At Trafford, Manchester Authority: Environment Agency, North West Region Abstraction: Construction: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: M60 Corridor Between Junctions 5 To 8 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th November 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (SW)	1156	2	382650 391020
	Water Abstractions Operator: Amec / Alfred Mcalpine Jv Licence Number: 2569015016 Permit Version: 1 Location: River Mersey At Trafford, Manchester Authority: Environment Agency, North West Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: M60 Corridor Between Junctions 5 To 8 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th November 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (SW)	1156	2	382650 391020
	Water Abstractions Operator: Didsbury Golf Club Ltd Licence Number: 2569015006 Permit Version: 100 Location: Borehole At Didsbury Golf Club Northenden Wythenshawe Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 68 Yearly Rate (m3): 9092 Details: Didsbury Golf Course, Northenden Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1627	2	383950 390470
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A13SW (W)	0	2	383363 392196
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (W)	0	4	383363 392196
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	4	383363 392196
	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	A8NW (S)	154	2	383299 391818
	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	A8NW (S)	180	2	383313 391791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A8NW (S)	219	2	383303 391753
	Flood Water Storage Areas None				
	Flood Defences Type: Flood Defences Reference: Not Supplied	A8NW (S)	208	2	383307 391763
17	**Detailed River Network Lines** River Type: Primary River River Name: River Mersey Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: MERSEY Water Course Reference: MERS	A8NW (S)	200	2	383308 391771
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Manchester Name: Nell Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16721 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F042	A17NE (NW)	790	2	382709 392923
19	**Historical Landfill Sites** Licence Holder: Manchester City Council Location: Princess Parkway, Greater Manchester Name: Former Northenden Sewage Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16786 First Input Date: 31st December 1950 Last Input Date: 31st December 1965 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9692 BGS Ref: Not Supplied Other Ref: F052	A3NW (S)	894	2	383039 391123
20	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Greater Manchester Name: Princess Road - Yew Tree Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16762 First Input Date: 31st December 1948 Last Input Date: 31st December 1994 Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F051	A7NW (SW)	939	2	382425 391536
	Local Authority Landfill Coverage Name: Manchester City Council - Had landfill data but passed it to the relevant environment agency		0	9	383363 392196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Registered Waste Transfer Sites** Licence Holder: Greater Manchester Waste Ltd Licence Reference: 00884 Site Location: Nell Lane C.A.Site, Chorlton Cum Hardy, Manchester, Greater Manchester 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 Restrictions: No known restriction on source of waste Licence Status: Licence has completion certificateSurrendered Dated: 1st February 1995 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location 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	A17NW (NW)	866	2	382600 392900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (W)	0	4	383363 392196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	0	4	383363 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (W)	0	4	383363 392196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (S)	200	4	383305 391772
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	216	4	383000 392196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (SW)	231	4	383000 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	271	4	383337 391699

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: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	411	4	382814 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (W)	416	4	382798 392074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (SE)	431	4	383614 391651
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (E)	465	4	384000 392196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (E)	491	4	384000 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NE (W)	555	4	382722 392389

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: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NW (N)	563	4	383363 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SW)	573	4	383000 391492
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	583	4	383000 391481
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SW)	590	4	382985 391481
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SW)	628	4	382923 391471
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NE (NW)	655	4	383000 393000

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: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SW)	659	4	382930 391432
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (E)	680	4	384195 392407
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	750	4	382952 391318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (SW)	832	4	382427 391800
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (NE)	865	4	384000 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	877	4	384397 392000

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: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SW (E)	919	4	384440 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NW (NW)	943	4	382575 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A2NE (S)	944	4	383000 391083
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A7SW (SW)	945	4	382502 391417
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11SE (W)	963	4	382262 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	971	4	383363 391000

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: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A7SW (SW)	982	4	382383 391522
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (W)	995	4	382230 392000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	200	4	383305 391772
	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	A13SW (W)	0	4	383363 392196
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	4	383363 392196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Contemporary Trade Directory Entries** Name: Siemens Automation Location: Sir William Siemens House, Princess Road, Manchester, M20 2UR Classification: Automation Systems & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	383404 392273
22	**Contemporary Trade Directory Entries** Name: Siemens Communication Systems Ltd Location: Sir William Siemens House, Princess Road, Manchester, M20 2UR Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	383404 392273
22	**Contemporary Trade Directory Entries** Name: Power Transmission & Distribution Location: Sir William Siemens House, Princess Road, Manchester, M20 2UR Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	383404 392273
22	**Contemporary Trade Directory Entries** Name: Siemens Location: Sir William Siemens House, Princess Road, MANCHESTER, M20 2UR Classification: Automation Systems & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	383404 392273
22	**Contemporary Trade Directory Entries** Name: Siemens Transmission & Distribution Ltd Location: Sir William Siemens House, Princess Road, Manchester, M20 2UR Classification: Power Transmission Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	383404 392273
23	**Contemporary Trade Directory Entries** Name: Withenshaw Hospital Location: Nell Lane, Manchester, Lancashire, M20 2LR Classification: Hospitals **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	108	-	383630 392311
23	**Contemporary Trade Directory Entries** Name: Withington Hospital Location: Nell Lane, Manchester, M20 2LR Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	108	-	383630 392311
23	**Contemporary Trade Directory Entries** Name: Public Health Laboratory Service Location: Nell Lane, Manchester, M20 2LR Classification: Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	108	-	383630 392311
23	**Contemporary Trade Directory Entries** Name: Duchess Of York Hospital Location: Nell Lane, Manchester, M20 2LR Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	108	-	383630 392311
23	**Contemporary Trade Directory Entries** Name: Furniture Workshop Location: The Stables,Nell Lane, Manchester, Lancashire, M20 2LR Classification: Furniture - Repairing & Restoring **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	108	-	383630 392311
24	**Contemporary Trade Directory Entries** Name: Silhouette Location: 8, Rowsley Avenue, Manchester, M20 2XD Classification: Lingerie Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	123	-	383271 391859
25	**Contemporary Trade Directory Entries** Name: Barlow Moor Filling Station Location: Barlow Moor Road, MANCHESTER, M20 2XQ Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	141	-	383489 391914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Contemporary Trade Directory Entries** Name: K Klass Motors Ltd Location: 156, Barlow Moor Road, Manchester, M20 2XQ Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	141	-	383489 391914
25	**Contemporary Trade Directory Entries** Name: Parkway Autos Location: 156, Barlow Moor Road, Manchester, M20 2XQ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	141	-	383489 391914
25	**Contemporary Trade Directory Entries** Name: Cars Of Didsbury Ltd Location: Barlow Moor Road, Manchester, Lancashire, M20 2XQ Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	141	-	383489 391914
25	**Contemporary Trade Directory Entries** Name: Best Cleaning Location: Flat 1, 156, Barlow Moor Road, Manchester, Lancashire, M20 2XQ Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	141	-	383489 391914
26	**Contemporary Trade Directory Entries** Name: Easy Wheels Location: 20, Moorfield Road, Manchester, M20 2UY Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	171	-	383571 391930
27	**Contemporary Trade Directory Entries** Name: Magic Balloons Location: Princess Road, Manchester, Lancashire, M20 2LT Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	192	-	383060 391929
27	**Contemporary Trade Directory Entries** Name: Dreemway Ltd Location: Nelrose, Princess Road, Manchester, Lancashire, M20 2LT Classification: Control Panels **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	192	-	383060 391929
27	**Contemporary Trade Directory Entries** Name: Cars 4 People Location: 729, Princess Road, Manchester, Lancashire, M20 2LT Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	192	-	383060 391929
27	**Contemporary Trade Directory Entries** Name: Cool Tints Location: Nelrose,Princess Rd, Manchester, Lancashire, M20 2LT Classification: Window Tinting **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	192	-	383060 391929
28	**Contemporary Trade Directory Entries** Name: Disablement Services Centre Location: Cavendish Rd, Manchester, M20 1LB Classification: Hospitals **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	204	-	383650 392438
29	**Contemporary Trade Directory Entries** Name: Appliance Care Ltd Location: Nell La, Manchester, M20 2NE Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	231	-	383764 392187
30	**Contemporary Trade Directory Entries** Name: Optegra Location: One Didsbury Point, 2, The Avenue, Didsbury, MANCHESTER, M20 2EY Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	237	-	383477 392630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Contemporary Trade Directory Entries** Name: Withington Community Hospital Location: Nell Lane, MANCHESTER, M20 2LR Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	280	-	383802 392075
32	**Contemporary Trade Directory Entries** Name: Mrs Mop Location: 8, Warwick Avenue, Manchester, M20 2LL Classification: Laundry & Dry Cleaning Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	364	-	383822 391935
33	**Contemporary Trade Directory Entries** Name: Wired World Location: 238 Burton Rd, Manchester, Lancashire, M20 2LW Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14SW (E)	369	-	383904 392166
33	**Contemporary Trade Directory Entries** Name: Wired World Location: 238, Burton Road, Manchester, M20 2LW Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	370	-	383905 392167
34	**Contemporary Trade Directory Entries** Name: The Stove Room Location: 212, Burton Road, Manchester, M20 2LW Classification: Woodburning Stoves **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	423	-	383951 392233
35	**Contemporary Trade Directory Entries** Name: Nissi Engineering Ltd Location: Flat 7-12, 99-101, Northen Grove, Manchester, M20 2JL Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	436	-	383802 391793
36	**Contemporary Trade Directory Entries** Name: A P B Electrical Location: 8, Craigmore Avenue, Manchester, M20 2ZL Classification: Electrical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	447	-	383040 391614
37	**Contemporary Trade Directory Entries** Name: A P Hynes & Co Location: 245, Barlow Moor Road, Manchester, M21 7QL Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	452	-	382786 392267
38	**Contemporary Trade Directory Entries** Name: Pro Cleaners Didsbury West Location: 6, Beaufort Avenue, Manchester, M20 1LL Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	498	-	384026 392267
39	**Contemporary Trade Directory Entries** Name: Gudrun Service Launderette Location: 162, Burton Road, Manchester, M20 1LH Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	514	-	384033 392368
39	**Contemporary Trade Directory Entries** Name: G T Blagg Location: 146-148, Burton Road, Manchester, M20 1LH Classification: Gas Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	549	-	384061 392406
40	**Contemporary Trade Directory Entries** Name: Southern Cemetery Location: 212, Barlow Moor Road, Manchester, M21 7GL Classification: Cemeteries & Crematoria **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	535	-	382739 392381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Contemporary Trade Directory Entries** Name: Hancocks Location: 560, Princess Road, Manchester, M21 7QA Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	544	-	382853 391627
42	**Contemporary Trade Directory Entries** Name: All Appliance Repairs Location: 247a, Barlow Moor Road, Manchester, M21 7GJ Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	599	-	382662 392359
42	**Contemporary Trade Directory Entries** Name: Elite Cleaning & Environmental Services Location: 247, Barlow Moor Road, MANCHESTER, M21 7GJ Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	600	-	382662 392359
42	**Contemporary Trade Directory Entries** Name: A & S Group Location: 257-259, Barlow Moor Road, Manchester, M21 7GJ Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	639	-	382627 392378
42	**Contemporary Trade Directory Entries** Name: Cooling World Location: 257-259, Barlow Moor Road, Manchester, M21 7GJ Classification: Air Conditioning & Refrigeration Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	639	-	382627 392378
43	**Contemporary Trade Directory Entries** Name: W R S Wrought Iron Location: 126, Burton Road, Manchester, M20 1JQ Classification: Gate Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	613	-	384109 392470
44	**Contemporary Trade Directory Entries** Name: South (Manchester) Domestics Location: 18, Elswick Avenue, Manchester, M21 7NL Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	613	-	382614 392016
45	**Contemporary Trade Directory Entries** Name: The Bridge Motor Co (Withington) Ltd Location: 122, Burton Road, Manchester, M20 1LP Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (NE)	657	-	384137 392521
45	**Contemporary Trade Directory Entries** Name: Rp Hygiene Location: 122, Burton Road, Manchester, M20 1LP Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (NE)	657	-	384137 392521
46	**Contemporary Trade Directory Entries** Name: Texaco Location: Princess Road West, Manchester, Lancashire, M20 2ZF Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	658	-	382843 391487
47	**Contemporary Trade Directory Entries** Name: A & S Group Location: 265, Barlow Moor Road, MANCHESTER, M21 7GJ Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	677	-	382594 392398
48	**Contemporary Trade Directory Entries** Name: Shipshape Location: 37, Wishaw Square, Manchester, Lancashire, M21 7GF Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (N)	690	-	383030 393055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**Contemporary Trade Directory Entries** Name: Jigsaw Independent Hospital Location: 134, Palatine Road, Manchester, M20 3ZA Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	707	-	384194 391903
50	**Contemporary Trade Directory Entries** Name: Gleam Cleaning Services Location: 20, Wintermans Road, Manchester, M21 7UF Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	716	-	383119 393119
51	**Contemporary Trade Directory Entries** Name: Fuji Seal Europe Ltd Location: Flat 1, 11, Central Road, Manchester, Lancashire, M20 4YE Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	718	-	384211 392496
52	**Contemporary Trade Directory Entries** Name: J K Skip Hire Location: 4, Mersey Bank Avenue, Manchester, M21 7NQ Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	744	-	382482 392013
53	**Contemporary Trade Directory Entries** Name: Comiskey Location: 3, Raleigh Close, Manchester, M20 2BY Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	762	-	384294 392106
54	**Contemporary Trade Directory Entries** Name: Sugar Soap Clean Location: Flat 1 & 3-5, 39, Central Road, Manchester, M20 4YE Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	772	-	384285 392426
55	**Contemporary Trade Directory Entries** Name: Majestix Ltd Location: 9, Pinetop Close, Manchester, M21 7RN Classification: Laboratory Equipment, Instruments & Supplies **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	772	-	382809 393003
56	**Contemporary Trade Directory Entries** Name: Douglas House Location: 54, Barlow Moor Road, Manchester, M20 2TR Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	778	-	384091 391606
57	**Contemporary Trade Directory Entries** Name: Urecovery Location: 18, Arrowfield Road, Manchester, M21 7UP Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	836	-	382829 393103
58	**Contemporary Trade Directory Entries** Name: Kingsway Domestics Location: 2, Halebank Avenue, Manchester, M20 1EG Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	865	-	383923 393077
59	**Contemporary Trade Directory Entries** Name: M J Stevenson Services Location: 4, Brooklands Avenue, MANCHESTER, M20 1JE Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (E)	873	-	384343 392588
59	**Contemporary Trade Directory Entries** Name: M J Stevenson Services Location: 4, Brooklands Avenue, Manchester, M20 1JE Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (E)	873	-	384343 392588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Contemporary Trade Directory Entries** Name: Sovereign Cleaning Services Ltd Location: 1, Elmstead Avenue, Manchester, M20 1EW Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	900	-	384117 392955
61	**Contemporary Trade Directory Entries** Name: Auto Tyre Centre Location: Palatine Road, Manchester, M20 2UH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NE (S)	914	-	383688 391134
61	**Contemporary Trade Directory Entries** Name: Riverside Car Centre Location: Palatine Road, Manchester, M20 2UH Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NE (S)	914	-	383688 391134
61	**Contemporary Trade Directory Entries** Name: T R S Location: Palatine Road, Manchester, M20 2UH Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A3NE (S)	914	-	383688 391134
62	**Contemporary Trade Directory Entries** Name: Bouygues Energies Services Location: One Didsbury Point, 2, The Avenue, Didsbury, Manchester, M20 2EY Classification: Air Conditioning & Refrigeration Contractors **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	935	-	383874 391216
63	**Contemporary Trade Directory Entries** Name: The Manchester Crematorium Ltd Location: Barlow Moor Road, Manchester, M21 7GZ Classification: Cemeteries & Crematoria **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	944	-	382425 392713
64	**Fuel Station Entries** Name: Southern Self Serve Location: Princess Road, Withington, Manchester, M20 2LT Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Located by supplier to within 100m	A13NW (N)	16	-	383343 392452
65	**Fuel Station Entries** Name: Barlow Moor Filling Station Location: 156, Barlow Moor Road, Manchester, M20 2XQ Brand: Unbranded Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	150	-	383488 391904
66	**Fuel Station Entries** Name: West Didsbury Filling Station Location: Princess Parkway, West Didsbury, Manchester, M20 2LT Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Approximate location provided by supplier	A8NW (SW)	284	-	383080 391778
67	**Fuel Station Entries** Name: Co-Op Mersey Lights Location: 849, Princess Road, Didsbury, Manchester, Lancashire, M20 2ZF Brand: TEXACO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	628	-	382867 391507

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	**Areas of Adopted Green Belt** Authority: Manchester City Council Plan Name: Proposals Map **Status: Adopted** Plan Date: 11th July 2012	A8NW (S)	173	5	383311 391799
69	**Local Nature Reserves** Name: Chorlton Water Park Multiple Area: N Area (m2): 175017 Source: Natural England Designation Date: 28th March 2012	A12SW (W)	778	7	382456 391933

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Stockport Metropolitan Borough Council - Environment Team (Land & Water)	December 2014	Annual Rolling Update
Salford City Council - Environmental Health Department	November 2013	Annual Rolling Update
Trafford Metropolitan Borough Council - Renewal and Environmental Protection	November 2013	Annual Rolling Update
Manchester City Council - Environmental Health Department	September 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	July 2015	Quarterly
Environment Agency - North West Region	July 2015	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	July 2015	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Salford City Council - Environmental Health Department	March 2015	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	October 2014	Annual Rolling Update
Trafford Metropolitan Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Manchester City Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Trafford Metropolitan Borough Council - Environmental Health Department	July 2015	Annual Rolling Update
Salford City Council - Environmental Health Department	March 2015	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	October 2014	Annual Rolling Update
Manchester City Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Salford City Council - Environmental Health Department	March 2015	Annual Rolling Update
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	October 2014	Annual Rolling Update
Trafford Metropolitan Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Manchester City Council - Environmental Health Department	September 2014	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - North West Region - South Area	July 2015	Quarterly
Water Abstractions		
Environment Agency - North West Region	July 2015	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	July 2015	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable

Data Currency

Agency & Hydrological	Version	Update Cycle
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	July 2015	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2015	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2015	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2015	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2015	Quarterly
Flood Defences Environment Agency - Head Office	August 2015	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - North West Region - South Area	May 2015	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North West Region - South Area	August 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - South Area	July 2015	Quarterly
Local Authority Landfill Coverage		
Manchester City Council - Planning Department	May 2000	Not Applicable
Salford City Council - Environmental Health Department	May 2000	Not Applicable
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	May 2000	Not Applicable
Trafford Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Manchester City Council - Planning Department	May 2000	Not Applicable
Salford City Council - Environmental Health Department	May 2000	Not Applicable
Stockport Metropolitan Borough Council - Environmental Health Department, EEDD	May 2000	Not Applicable
Trafford Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	June 2015	Bi-Annually
Explosive Sites		
Health and Safety Executive	June 2015	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Stockport Metropolitan Borough Council - Environment and Economic Development	November 2014	Annual Rolling Update
Trafford Metropolitan Borough Council	November 2014	Annual Rolling Update
Salford City Council	October 2015	Annual Rolling Update
Manchester City Council - Planning Department	September 2014	Annual Rolling Update
Planning Hazardous Substance Consents		
Stockport Metropolitan Borough Council - Environment and Economic Development	November 2014	Annual Rolling Update
Trafford Metropolitan Borough Council	November 2014	Annual Rolling Update
Salford City Council	October 2015	Annual Rolling Update
Manchester City Council - Planning Department	September 2014	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Manchester City Council	May 2015	As notified
Salford City Council	May 2015	As notified
Stockport Metropolitan Borough Council	May 2015	As notified
Trafford Metropolitan Borough Council	May 2015	As notified
Areas of Unadopted Green Belt		
Manchester City Council	May 2015	As notified
Salford City Council	May 2015	As notified
Stockport Metropolitan Borough Council	May 2015	As notified
Trafford Metropolitan Borough Council	May 2015	As notified
Areas of Outstanding Natural Beauty		
Natural England	February 2015	Bi-Annually
Environmentally Sensitive Areas		
Natural England	October 2015	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	April 2015	Bi-Annually
Marine Nature Reserves		
Natural England	July 2013	Bi-Annually
National Nature Reserves		
Natural England	March 2015	Bi-Annually
National Parks		
Natural England	August 2015	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites		
Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2015	Bi-Annually
Special Areas of Conservation		
Natural England	March 2014	Bi-Annually
Special Protection Areas		
Natural England	April 2015	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Manchester City Council - Environmental Health Department** PO Box 463, Town Hall Extension, Albert Square, Manchester, Greater Manchester, M60 3NY	Telephone: 0161 234 4884 / 234 4873. Fax: 0161 234 4508 Website: www.manchester.gov.uk
4	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	**Manchester City Council** Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
6	**Trafford Metropolitan Borough Council** P O Box 14, Trafford Town Hall, Talbot Road, Stretford, Greater Manchester, M32 0YZ	Telephone: 0161 912 1212 Fax: 0161 873 7783 Website: www.trafford.gov.uk
7	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
9	**Manchester City Council - Planning Department** Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.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.

Envirocheck® Report:

BGS Boreholes Datasheet

Order Details:

Order Number:
73859724_1_1

Customer Reference:
41787

National Grid Reference:
383360, 392200

Slice:
A

Site Area (Ha):
8.61

Borehole Search Buffer (m):
1000

Site Details:

Siemens House,
Princess Road
Manchester
M20 2UR

Client Details:

Mr M Green
Ian Farmer Associates
17 Rivington Court
Hardwick Grange
Woolston
Warrington
Cheshire
WA1 4RT

Prepared For:

Booth King Paternship Limited
9C Bridge Street
Ramsbottom, Bury
BL0 9AB

IAN FARMER ASSOCIATES

BGS Boreholes Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	None	18	30	69

Introduction

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

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

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

Report Version v50.0

IAN FARMER ASSOCIATES

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**BGS Boreholes** BGS Reference: Sj89sw701 Drilled Length (m): 12.19 Borehole Name: Barlow Moor Road West Didsbury 10 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865580/	A13NW (N)	13	4	383310 392420
70	**BGS Boreholes** BGS Reference: Sj89sw700 Drilled Length (m): 12.19 Borehole Name: Barlow Moor Road West Didsbury 9 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865579/	A13NW (N)	25	4	383290 392400
71	**BGS Boreholes** BGS Reference: Sj89sw688 Drilled Length (m): 12.03 Borehole Name: Barlow Moor Road West Didsbury 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865567/	A13SW (S)	31	4	383320 391940
71	**BGS Boreholes** BGS Reference: Sj89sw1 Drilled Length (m): 10.97 Borehole Name: Barlow Moor Road. No.51 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864883/	A13SW (S)	46	4	383278 391942
72	**BGS Boreholes** BGS Reference: Sj89sw697 Drilled Length (m): 5.48 Borehole Name: Barlow Moor Road West Didsbury 1a Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865576/	A13SW (SW)	87	4	383140 392080
73	**BGS Boreholes** BGS Reference: Sj89sw689 Drilled Length (m): 11.12 Borehole Name: Barlow Moor Road West Didsbury 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865568/	A13SW (S)	109	4	383280 391870
74	**BGS Boreholes** BGS Reference: Sj89sw6 Drilled Length (m): 9.45 Borehole Name: Christ Church Avenue, Now Princess Road. No.1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864888/	A13SW (SW)	156	4	383072 392050
74	**BGS Boreholes** BGS Reference: Sj89sw698 Drilled Length (m): 9 Borehole Name: Barlow Moor Road West Didsbury 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865577/	A13SW (SW)	158	4	383070 392050
75	**BGS Boreholes** BGS Reference: Sj89sw699 Drilled Length (m): 12 Borehole Name: Barlow Moor Road West Didsbury 6a Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865578/	A13SW (SW)	158	4	383070 392050
76	**BGS Boreholes** BGS Reference: Sj89sw690 Drilled Length (m): 8.07 Borehole Name: Barlow Moor Road West Didsbury 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865569/	A8NW (S)	174	4	383290 391800
77	**BGS Boreholes** BGS Reference: Sj89sw7 Drilled Length (m): 9.14 Borehole Name: Christ Church Avenue, Now Princess Road. No.2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864889/	A12SE (SW)	203	4	383033 391971
78	**BGS Boreholes** BGS Reference: Sj89sw691 Drilled Length (m): 10.05 Borehole Name: Barlow Moor Road West Didsbury 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865570/	A8NW (S)	217	4	383240 391770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**BGS Boreholes** BGS Reference: Sj89sw860 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 3 Link to Borehole Scan: Not Available	A12SE (W)	230	4	382990 392090
79	**BGS Boreholes** BGS Reference: Sj89sw867 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp4 Link to Borehole Scan: Not Available	A12SE (W)	236	4	382980 392120
79	**BGS Boreholes** BGS Reference: Sj89sw871 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp8 Link to Borehole Scan: Not Available	A12SE (W)	242	4	382980 392080
79	**BGS Boreholes** BGS Reference: Sj89sw861 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 4 Link to Borehole Scan: Not Available	A12SE (W)	244	4	382980 392070
79	**BGS Boreholes** BGS Reference: Sj89sw870 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp7 Link to Borehole Scan: Not Available	A12SE (W)	248	4	382970 392100
79	**BGS Boreholes** BGS Reference: Sj89sw862 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 5 Link to Borehole Scan: Not Available	A12SE (W)	268	4	382960 392050
80	**BGS Boreholes** BGS Reference: Sj89sw863 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 6 Link to Borehole Scan: Not Available	A12SE (SW)	239	4	382990 392030
81	**BGS Boreholes** BGS Reference: Sj89sw363 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation 23 Link to Borehole Scan: Not Available	A8NW (S)	251	4	383231 391737
81	**BGS Boreholes** BGS Reference: Sj89sw350 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 56 Link to Borehole Scan: Not Available	A8NW (S)	272	4	383249 391709
82	**BGS Boreholes** BGS Reference: Sj89sw866 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp3 Link to Borehole Scan: Not Available	A12SE (W)	256	4	382960 392140
82	**BGS Boreholes** BGS Reference: Sj89sw868 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp5 Link to Borehole Scan: Not Available	A12SE (W)	266	4	382950 392120
82	**BGS Boreholes** BGS Reference: Sj89sw859 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 2 Link to Borehole Scan: Not Available	A12SE (W)	277	4	382940 392110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	**BGS Boreholes** BGS Reference: Sj89sw858 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester 1 Link to Borehole Scan: Not Available	A12SE (W)	278	4	382940 392160
82	**BGS Boreholes** BGS Reference: Sj89sw864 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp1 Link to Borehole Scan: Not Available	A12SE (W)	287	4	382930 392150
82	**BGS Boreholes** BGS Reference: Sj89sw865 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp2 Link to Borehole Scan: Not Available	A12SE (W)	296	4	382920 392120
83	**BGS Boreholes** BGS Reference: Sj89sw692 Drilled Length (m): 11.12 Borehole Name: Barlow Moor Road West Didsbury 5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865571/	A8NW (S)	283	4	383190 391720
84	**BGS Boreholes** BGS Reference: Sj89sw869 Drilled Length (m): Not Supplied Borehole Name: Christie Fields Manchester Tp6 Link to Borehole Scan: Not Available	A12SE (W)	289	4	382930 392090
85	**BGS Boreholes** BGS Reference: Sj89sw8 Drilled Length (m): 9.14 Borehole Name: Christ Church Avenue, Now Princess Road. No.3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864890/	A12SE (SW)	298	4	382964 391885
86	**BGS Boreholes** BGS Reference: Sj89sw654 Drilled Length (m): 6.55 Borehole Name: Burton Road 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865533/	A14SW (E)	322	4	383830 392030
87	**BGS Boreholes** BGS Reference: Sj89sw778 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington 1 Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680
87	**BGS Boreholes** BGS Reference: Sj89sw779 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington 2 Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680
87	**BGS Boreholes** BGS Reference: Sj89sw780 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington Tha Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680
87	**BGS Boreholes** BGS Reference: Sj89sw781 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington Thb Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680
87	**BGS Boreholes** BGS Reference: Sj89sw782 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington Thc Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**BGS Boreholes** BGS Reference: Sj89sw783 Drilled Length (m): Not Supplied Borehole Name: 5 Glenmore Avenue Withington Thd Link to Borehole Scan: Not Available	A8NW (SW)	356	4	383110 391680
88	**BGS Boreholes** BGS Reference: Sj89sw702 Drilled Length (m): 12.19 Borehole Name: Barlow Moor Road West Didsbury 11 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865581/	A18SE (N)	371	4	383450 392790
88	**BGS Boreholes** BGS Reference: Sj89sw703 Drilled Length (m): 12.19 Borehole Name: Barlow Moor Road West Didsbury 12 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865582/	A18SE (N)	371	4	383480 392780
89	**BGS Boreholes** BGS Reference: Sj89sw704 Drilled Length (m): 12.19 Borehole Name: Barlow Moor Road West Didsbury 13 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865583/	A18SE (N)	375	4	383510 392770
90	**BGS Boreholes** BGS Reference: Sj89sw9 Drilled Length (m): 8.23 Borehole Name: Princess Road Extension To Stockport Road. No.4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864891/	A7NE (SW)	392	4	382927 391770
91	**BGS Boreholes** BGS Reference: Sj89sw364 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation 24 Link to Borehole Scan: Not Available	A8NE (S)	433	4	383493 391573
92	**BGS Boreholes** BGS Reference: Sj89sw812 Drilled Length (m): 6.1 Borehole Name: Disley Avenue Withington B2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15636568/	A19SW (NE)	449	4	383766 392656
92	**BGS Boreholes** BGS Reference: Sj89sw811 Drilled Length (m): 7.6 Borehole Name: Disley Avenue Withington B1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/15636565/	A19SW (NE)	466	4	383778 392668
93	**BGS Boreholes** BGS Reference: Sj89sw653 Drilled Length (m): 6.75 Borehole Name: Burton Road 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865532/	A14NW (E)	453	4	383980 392250
94	**BGS Boreholes** BGS Reference: Sj89sw10 Drilled Length (m): 8.23 Borehole Name: Princess Road Extension To Stockport Road. No.5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864892/	A7NE (SW)	485	4	382888 391676
95	**BGS Boreholes** BGS Reference: Sj89sw751 Drilled Length (m): Not Supplied Borehole Name: Cavendish Road Primary School 3 Link to Borehole Scan: Not Available	A14NW (E)	494	4	384010 392380
95	**BGS Boreholes** BGS Reference: Sj89sw749 Drilled Length (m): Not Supplied Borehole Name: Cavendish Road Primary School 1 Link to Borehole Scan: Not Available	A14NW (E)	496	4	384010 392390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**BGS Boreholes** BGS Reference: Sj89sw750 Drilled Length (m): Not Supplied Borehole Name: Cavendish Road Primary School 2 Link to Borehole Scan: Not Available	A14NW (E)	508	4	384020 392400
96	**BGS Boreholes** BGS Reference: Sj89sw564 Drilled Length (m): Not Supplied Borehole Name: Disley Avenue Withington 3 Link to Borehole Scan: Not Available	A19SW (NE)	516	4	383790 392720
97	**BGS Boreholes** BGS Reference: Sj89sw2 Drilled Length (m): 9.45 Borehole Name: Barlow Moor Road. No.52 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864884/	A12NE (W)	518	4	382738 392330
98	**BGS Boreholes** BGS Reference: Sj89sw428 Drilled Length (m): Not Supplied Borehole Name: Mersey Road Didsbury 1 Link to Borehole Scan: Not Available	A9NW (SE)	542	4	383720 391580
98	**BGS Boreholes** BGS Reference: Sj89sw429 Drilled Length (m): Not Supplied Borehole Name: Mersey Road Didsbury 3 Link to Borehole Scan: Not Available	A9NW (SE)	542	4	383720 391580
98	**BGS Boreholes** BGS Reference: Sj89sw430 Drilled Length (m): Not Supplied Borehole Name: Mersey Road Didsbury 4 Link to Borehole Scan: Not Available	A9NW (SE)	542	4	383720 391580
99	**BGS Boreholes** BGS Reference: Sj89sw11 Drilled Length (m): 7.92 Borehole Name: Princess Road Extension To Stockport Road. No.6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864893/	A7NE (SW)	579	4	382846 391586
99	**BGS Boreholes** BGS Reference: Sj89sw694 Drilled Length (m): 9.29 Borehole Name: Barlow Moor Road West Didsbury 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865573/	A7NE (SW)	598	4	382860 391550
99	**BGS Boreholes** BGS Reference: Sj89sw696 Drilled Length (m): 5.48 Borehole Name: Barlow Moor Road West Didsbury 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865575/	A7NE (SW)	598	4	382860 391550
99	**BGS Boreholes** BGS Reference: Sj89sw695 Drilled Length (m): 5.48 Borehole Name: Barlow Moor Road West Didsbury 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865574/	A7NE (SW)	608	4	382820 391570
100	**BGS Boreholes** BGS Reference: Sj89sw693 Drilled Length (m): 11.27 Borehole Name: Barlow Moor Road West Didsbury 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865572/	A7NE (SW)	616	4	382820 391560
101	**BGS Boreholes** BGS Reference: Sj89sw407 Drilled Length (m): Not Supplied Borehole Name: Barfield House Didsbury 3 Link to Borehole Scan: Not Available	A9NW (SE)	617	4	383850 391580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**BGS Boreholes** BGS Reference: Sj89sw406 Drilled Length (m): Not Supplied Borehole Name: Barfield House Didsbury 2 Link to Borehole Scan: Not Available	A9NW (SE)	620	4	383830 391560
101	**BGS Boreholes** BGS Reference: Sj89sw408 Drilled Length (m): Not Supplied Borehole Name: Barfield House Didsbury 4 Link to Borehole Scan: Not Available	A9NW (SE)	631	4	383860 391570
101	**BGS Boreholes** BGS Reference: Sj89sw405 Drilled Length (m): Not Supplied Borehole Name: Barfield House Didsbury 1 Link to Borehole Scan: Not Available	A9NW (SE)	648	4	383850 391540
102	**BGS Boreholes** BGS Reference: Sj89sw655 Drilled Length (m): Not Supplied Borehole Name: Merseybank Road Cultural/Community Centre Tp1 Link to Borehole Scan: Not Available	A12SW (SW)	618	4	382630 391870
102	**BGS Boreholes** BGS Reference: Sj89sw656 Drilled Length (m): Not Supplied Borehole Name: Merseybank Road Cultural/Community Centre Tp2 Link to Borehole Scan: Not Available	A12SW (SW)	618	4	382630 391870
103	**BGS Boreholes** BGS Reference: Sj89sw706 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp1 Link to Borehole Scan: Not Available	A19SW (NE)	618	4	383830 392820
103	**BGS Boreholes** BGS Reference: Sj89sw713 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp8 Link to Borehole Scan: Not Available	A19SW (NE)	621	4	383860 392800
103	**BGS Boreholes** BGS Reference: Sj89sw710 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp5 Link to Borehole Scan: Not Available	A19SW (NE)	633	4	383850 392820
103	**BGS Boreholes** BGS Reference: Sj89sw714 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp9 Link to Borehole Scan: Not Available	A19SW (NE)	644	4	383870 392820
103	**BGS Boreholes** BGS Reference: Sj89sw707 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp2 Link to Borehole Scan: Not Available	A19SW (NE)	647	4	383850 392840
103	**BGS Boreholes** BGS Reference: Sj89sw711 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp6 Link to Borehole Scan: Not Available	A19SW (NE)	661	4	383870 392840
103	**BGS Boreholes** BGS Reference: Sj89sw708 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp3 Link to Borehole Scan: Not Available	A19SW (NE)	668	4	383860 392860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	**BGS Boreholes** BGS Reference: Sj89sw410 Drilled Length (m): Not Supplied Borehole Name: Old Lansdowne Road 1 Link to Borehole Scan: Not Available	A14SE (E)	622	4	384150 392070
105	**BGS Boreholes** BGS Reference: Sj89sw349 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 55 Link to Borehole Scan: Not Available	A8SW (S)	646	4	383218 391333
106	**BGS Boreholes** BGS Reference: Sj89sw12 Drilled Length (m): 6.4 Borehole Name: Princess Road Extension To Stockport Road. No.7 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864894/	A7SE (SW)	650	4	382818 391516
107	**BGS Boreholes** BGS Reference: Sj89sw715 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp10 Link to Borehole Scan: Not Available	A19SW (NE)	671	4	383890 392840
107	**BGS Boreholes** BGS Reference: Sj89sw712 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp7 Link to Borehole Scan: Not Available	A19SW (NE)	682	4	383880 392860
107	**BGS Boreholes** BGS Reference: Sj89sw716 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp11 Link to Borehole Scan: Not Available	A19SW (NE)	693	4	383900 392860
107	**BGS Boreholes** BGS Reference: Sj89sw709 Drilled Length (m): Not Supplied Borehole Name: Minehead Avenue Tp4 Link to Borehole Scan: Not Available	A19NW (NE)	696	4	383880 392880
108	**BGS Boreholes** BGS Reference: Sj89sw411 Drilled Length (m): Not Supplied Borehole Name: Old Lansdowne Road 2 Link to Borehole Scan: Not Available	A14SE (E)	696	4	384230 392190
109	**BGS Boreholes** BGS Reference: Sj89sw609 Drilled Length (m): 14.02 Borehole Name: Didsbury No.50 Link to Borehole Scan: Not Available	A9NW (SE)	706	4	384010 391620
110	**BGS Boreholes** BGS Reference: Sj89sw348 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 54 Link to Borehole Scan: Not Available	A8SW (S)	713	4	383150 391279
111	**BGS Boreholes** BGS Reference: Sj89sw13 Drilled Length (m): 1.6 Borehole Name: Princess Road Extension To Stockport Road. No.8 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864895/	A7SE (SW)	746	4	382767 391434
112	**BGS Boreholes** BGS Reference: Sj89sw427 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 8 Link to Borehole Scan: Not Available	A9SW (SE)	747	4	383920 391470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**BGS Boreholes** BGS Reference: Sj89sw426 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 7 Link to Borehole Scan: Not Available	A9SW (SE)	788	4	383880 391390
114	**BGS Boreholes** BGS Reference: Sj89sw351 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 57 Link to Borehole Scan: Not Available	A3NE (S)	800	4	383420 391177
115	**BGS Boreholes** BGS Reference: Sj89sw425 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 6 Link to Borehole Scan: Not Available	A9SW (SE)	832	4	383830 391310
116	**BGS Boreholes** BGS Reference: Sj89sw483 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Bridge Manchester 1a Link to Borehole Scan: Not Available	A14SE (E)	836	4	384370 392120
116	**BGS Boreholes** BGS Reference: Sj89sw482 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Bridge Manchester 1 Link to Borehole Scan: Not Available	A14SE (E)	837	4	384370 392110
116	**BGS Boreholes** BGS Reference: Sj89sw511 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Lane Didsbury 2 Link to Borehole Scan: Not Available	A14SE (E)	847	4	384380 392110
116	**BGS Boreholes** BGS Reference: Sj89sw484 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Bridge Manchester 2 Link to Borehole Scan: Not Available	A14SE (E)	850	4	384380 392070
116	**BGS Boreholes** BGS Reference: Sj89sw497 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 1 Link to Borehole Scan: Not Available	A15SW (E)	868	4	384400 392090
117	**BGS Boreholes** BGS Reference: Sj89sw14 Drilled Length (m): 1.83 Borehole Name: Princess Road Extension To Stockport Road. No.9 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/864896/	A7SE (SW)	840	4	382722 391350
118	**BGS Boreholes** BGS Reference: Sj89sw510 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Lane Didsbury 1 Link to Borehole Scan: Not Available	A14SE (E)	842	4	384370 392050
118	**BGS Boreholes** BGS Reference: Sj89sw485 Drilled Length (m): Not Supplied Borehole Name: Palatine Road/Lapwing Bridge Manchester 2a Link to Borehole Scan: Not Available	A14SE (E)	851	4	384380 392060
119	**BGS Boreholes** BGS Reference: Sj89sw424 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 5 Link to Borehole Scan: Not Available	A9SW (SE)	888	4	383780 391210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	**BGS Boreholes** BGS Reference: Sj89sw789 Drilled Length (m): Not Supplied Borehole Name: Fog Lane Main Drainage 1 Link to Borehole Scan: Not Available	A9SE (SE)	892	4	384160 391510
121	**BGS Boreholes** BGS Reference: Sj89sw760 Drilled Length (m): Not Supplied Borehole Name: 1 Godbert Avenue Barlow Moor 1 Link to Borehole Scan: Not Available	A11NE (W)	904	4	382320 392250
121	**BGS Boreholes** BGS Reference: Sj89sw761 Drilled Length (m): Not Supplied Borehole Name: 1 Godbert Avenue Barlow Moor 2 Link to Borehole Scan: Not Available	A11NE (W)	904	4	382320 392250
121	**BGS Boreholes** BGS Reference: Sj89sw762 Drilled Length (m): Not Supplied Borehole Name: 1 Godbert Avenue Barlow Moor 3 Link to Borehole Scan: Not Available	A11NE (W)	904	4	382320 392250
121	**BGS Boreholes** BGS Reference: Sj89sw763 Drilled Length (m): Not Supplied Borehole Name: 1 Godbert Avenue Barlow Moor 4 Link to Borehole Scan: Not Available	A11NE (W)	904	4	382320 392250
122	**BGS Boreholes** BGS Reference: Sj89sw784 Drilled Length (m): Not Supplied Borehole Name: Fog Lane Main Drainage Stage Ii 1 Link to Borehole Scan: Not Available	A9NE (SE)	905	4	384290 391660
123	**BGS Boreholes** BGS Reference: Sj89sw498 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 2 Link to Borehole Scan: Not Available	A15SW (E)	906	4	384440 392200
124	**BGS Boreholes** BGS Reference: Sj89sw790 Drilled Length (m): Not Supplied Borehole Name: Fog Lane Main Drainage 2 Link to Borehole Scan: Not Available	A9NE (SE)	915	4	384220 391550
125	**BGS Boreholes** BGS Reference: Sj89sw829 Drilled Length (m): 6 Borehole Name: Lapping Lane Development, West Didsbury, Manchester 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/17986408/	A15SW (E)	925	4	384455 392069
125	**BGS Boreholes** BGS Reference: Sj89sw831 Drilled Length (m): 6 Borehole Name: Lapping Lane Development, West Didsbury, Manchester 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/17986410/	A15SW (E)	929	4	384457 392043
125	**BGS Boreholes** BGS Reference: Sj89sw830 Drilled Length (m): 6 Borehole Name: Lapping Lane Development, West Didsbury, Manchester 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/17986409/	A15SW (E)	942	4	384471 392056
126	**BGS Boreholes** BGS Reference: Sj89sw342 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 48 Link to Borehole Scan: Not Available	A7SW (SW)	939	4	382432 391524

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**BGS Boreholes** BGS Reference: Sj89sw343 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 49 Link to Borehole Scan: Not Available	A7SW (SW)	946	4	382441 391498
127	**BGS Boreholes** BGS Reference: Sj89sw423 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 4 Link to Borehole Scan: Not Available	A4NW (S)	940	4	383720 391120
128	**BGS Boreholes** BGS Reference: Sj89sw344 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 50 Link to Borehole Scan: Not Available	A7SW (SW)	960	4	382441 391472
128	**BGS Boreholes** BGS Reference: Sj89sw345 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation Tp 51 Link to Borehole Scan: Not Available	A7SW (SW)	980	4	382435 391446
128	**BGS Boreholes** BGS Reference: Sj89sw361 Drilled Length (m): Not Supplied Borehole Name: River Mersey Flood Alleviation 21 Link to Borehole Scan: Not Available	A7SW (SW)	991	4	382430 391435
129	**BGS Boreholes** BGS Reference: Sj89sw499 Drilled Length (m): Not Supplied Borehole Name: Palatine Road 3 Link to Borehole Scan: Not Available	A15NW (E)	962	4	384490 392280
130	**BGS Boreholes** BGS Reference: Sj89sw791 Drilled Length (m): Not Supplied Borehole Name: Fog Lane Main Drainage 3 Link to Borehole Scan: Not Available	A9NE (SE)	966	4	384330 391610
131	**BGS Boreholes** BGS Reference: Sj89sw705 Drilled Length (m): Not Supplied Borehole Name: Barlow Moor Road 1 Link to Borehole Scan: Not Available	A16SE (NW)	975	4	382360 392630
132	**BGS Boreholes** BGS Reference: Sj89sw381 Drilled Length (m): 50 Borehole Name: Chorlton Cum Hardy Golf Club Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/865264/	A11SE (W)	987	4	382230 392100

Data Currency and Contact Details

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	July 2015	Quarterly

Contact Details	Contact Logo
4 **British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
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