GeoAssist Limited
Civil, Environmental & Geotechnical

Client:
Mr Zahoor Hussain
C/o NA Design & Construction Ltd
47 Egerton Road South
Chorlton Cum Hardy
Manchester
M21 0YW

Consultant/Engineer:
NA Design & Construction Ltd
47 Egerton Road South
Chorlton Cum Hardy
Manchester
M21 0YW

Phase I Desk Study and Preliminary Contaminated Land Risk Assessment

Land Adjacent to 82 Aspinall Street, Heywood

Unit 4
Sheffield Street
Heaton Norris
Stockport
Cheshire
SK4 1RU
Telephone : 0161 480 8885
e-mail : info@geoassist.co.uk

Dec 2017 **Site Ref: 5896/ASZ V1.00**
PCLRA

Client:
Mr Zahoor Hussain
C/o NA Design & Construction Ltd
47 Egerton Road South
Chorlton Cum Hardy
Manchester
M21 0YW

Consultant:
NA Design & Construction Ltd
47 Egerton Road South
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Manchester
M21 0YW

Phase I Desk Study and Preliminary Contaminated Land Risk Assessment

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Mr Zahoor Hussain
C/o NA Design & Construction Ltd
47 Egerton Road South
Chorlton Cum Hardy
Manchester
M21 0YW

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NA Design & Construction Ltd
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Chorlton Cum Hardy
Manchester
M21 0YW

Phase I Desk Study and Preliminary Contaminated Land Risk Assessment

1. Introduction

This report is an account of a Phase I Desk Study and Preliminary Contaminated Land Risk Assessment carried out by GeoAssist Limited at the request of NA Design & Construction Ltd on behalf of the Client Mr Zahoor Hussain for the development on Land Adjacent to 82 Aspinall Street, Heywood.

The work was commissioned following the receipt of instruction to proceed issued by NA Design & Construction Ltd on behalf of the Client Mr Zahoor Hussain on the 21st November 2017.

The purpose of this Phase I investigation is to provide information in order to ensure that the site is assessed in accordance with the methodology outlined in CLR11, satisfies the relevant requirements of the National Planning Policy Framework March 2012 and is suitable for the intended proposed land use. In this case, as a potential residential development.

The approximate grid reference for the centre of the site is 386090, 410990 and the total area of the site is approximately 200 m^2. The area of the site is outlined with a red line on the site plan in Appendix A1.

2. Description of the Site

The site is located within a residential and industrial area of Heywood, Rochdale.

The site forms a roughly rectangular shape. The topography is relatively level across the site.

The site is bounded by residential property to the east, south and west, with a large mill complex to the north.

At the time of the site visit the site was a disused plot of land at the end of a row of terrace houses which had become overgrown with vegetation.

No visual or olfactory observations of contaminants were noted during the site walkover. Photographs from the site visit form appendix A2 to this report.

3. Historical Researches

3.1 Historical Mapping

Examination of the historical maps of the area confirms that prior to becoming a patch of disused land, a terrace house was located on the site. This building was demolished and the site levelled between 1981 and 1991. A series of historical maps and ordnance plans have been reviewed as part of this search. The following table highlights plans and maps that are of particular significance for the purpose of this report. Where possible, reference to the large scale (1:500, 1:1,056, 1:1,250 & 1:2,500) plans and maps has been made in preference to those at smaller scales (1:10,560 & 1:10,000) as the details on the smaller scale plans and maps are often lacking because of the lower resolution at which they were originally drafted.

Date of Mapping	Scale	Potentially contaminative Feature within 250m of site boundary	Remarks	Direction from site	Distance from site(m)	Feature still present on 2015 edition
1851	1:1,056	Brickfield	Developed on by 1891	On site	0	No
		Pond Feature	Infilled by 1891	NW	50	No
		Marl Pits	Infilled by 1891	W and SW	110/160	No
		Sand Pits	Developed on by 1910	SE	160	No
		Gasometer	Developed on by 1891	S	250	Yes
		Millers Brook		N	220	Yes
		Millers Brook Mill Cotton		N	220	Yes
1891	1:500	Mutual Mill Cotton	Extended by 1929	N	15	Yes
		Reservoirs	Infilled by 1910	W	30	No
		Woodfield Mill		W	30	No
		Millers Brook Dye Works	Currently a Scrap Yard	SW	70	Yes
		Reservoir		NE	60	Yes
		Chimney		SW	15	No
		Chimney		E	20	Yes
		Chimney		W	80	No
1893	1:2,500					
1929 - 1930	1:2,500					
1932	1:10,560					
1937	1:2,500	Saw Mill		SW	140	No
1938	1:10,560					
1956 - 1957	1:1,250					
1957	1:2,500					
1967 - 1973	1:1,250	Rubber Works		SE	160	No
1967 - 1973	1:1,250	Garages		S	80	No
1981 – 1990	1:1,250					
1992	1:1,250	Fuel Station		S	120	Yes
1993	1:10,000					
1999	1:10,000					
2017	1:10,000					

A comprehensive list of the historical maps as referred to is attached in Appendix B1 to this report.

3.2 Anecdotal Historical Information

Anecdotal historical information has not been provided as part of this investigation.

3.3 Previous Intrusive Investigation

Previous subsurface ground investigations have not been undertaken on this site. The issues to be covered in the present investigation are to provide information in respect of any potentially unacceptable geo-environmental risks arising from previous land uses in the immediate area, including from ground gas, and the potential for these sources of contamination to impact both present and future receptors, including:

- Human
- Controlled waters via established pathways
- Property
- Adjoining land
- Ecological systems
- Archaeological sites and monuments

3.4 Environmental Data Search

An Environmental data search report referenced 147965216_1_1, has been used for background data on this site and is included as appendix C1.

3.4.1 Historical Land uses

The Environmental data search report referenced 147965216_1_1, summarises that past and present use of the site indicates that there are no potentially contaminative land uses on the site. The report also summarises that adjacent areas up to 250m indicate potentially contaminative land uses capable of impacting the site. Data from the historical plans indicate that the site and the immediate surrounds (250m) possess little potential to be directly impacted by contamination.

3.4.2 Statutory Authorisations, Incidents and Registers

The Environmental data search report referenced 147965216_1_1, confirms that within 250m of the site boundary there is/are:

- 2 active discharge consents,
- 1 active water abstraction licence 220m to North West
- 1 permitted local authority pollution prevention and control 235m to South West
- No historical pollution incidents to controlled waters

The 2 active discharge consents relate to storm water attenuation tanks over 200m to the west and north of the site boundary.

Given the distance from any registered incidents and consents, it is highly unlikely that the proposed development will be significantly impacted.

3.4.3 Landfill & Other Waste Sites

The Environmental data search report referenced 147965216_1_1, indicates that Rochdale Metropolitan Borough Council had no landfill data to supply. The Environment Agency England and Wales have supplied the following landfill and waste site data.

Table 3.4 A summary of the landfill/waste transfer data as provided by the Environment Agency England & Wales and the environmental data search report referenced 147965216_1_1

Site name	Material deposited	Operational period	Approximate distance from site (m)	Direction from site
Environment Agency Landfill Records				
Rear of Mutual Street	Inert waste: glass, concrete, bricks, tiles, soil and stones.	1982 - 1986	197	N

The potential for ground gas generation from registered landfill sources and subsequent ingress into the proposed development is classified as low given the age and distance from the site to any recorded potential sources of landfill gas.

3.4.4 In-Filled Land

Data from the County Series Surveys and the Ordnance Survey plans of the area along with information supplied within the environmental data search report referenced 138716550_1_1 confirms that there is likely to be areas of infilled/made ground present on the site from demolished buildings.

The Environmental data search report referenced 138716550_1_1, indicates that there are British Geological Society Recorded Mineral Sites within 250m of the site boundary.

Table 3.5 A summary of the of the British Geological Society Recorded Landfill Sites as provided in the environmental data search report referenced 147965216_1_1

Site name	Material deposited	Operational period	Approximate distance from site (m)	Direction from site
BGS Recorded Mineral Sites				
Heywood Brick Field	Developed over	Before 1851 to 1891	0	On Site
Sand Pits/Old Gravel Quarry	Developed over	Before 1851 to 1910	182	SE

The potential for ground gas generation from infilled land and subsequent ingress into the proposed development is classified as low, given the size and age of any potentially infilled land.

4. Geologly & Hydrogeology

4.1 Site Geology

The relevant 1:10,560 Geological map of the area County Series referenced 88 SE and published date 1929, shows the site to be underlain Glacial sands and gravels over Boulder Clay of the Pleistocene epochs.

The thickness of the drift deposits is not readily discernible from the geological plan. However, it is likely that the drift deposits will be greater than 10m in thickness.

The solid geology is shown as being Shales with Sandstones of the Lower Coal Measures of the Carboniferous Period.

No faults are shown as passing directly beneath the site. A roughly north-south trending fault is shown as passing at approximately 150m to the east of the site.

4.2 Radon Affected Area

The Environmental data search report referenced 147965216_1_1, indicates that the site is in a lower probability radon area. No radon protective measures are necessary in the construction of new dwellings or extensions.

4.3 Hydrogeology and Groundwater Vulnerability

The Bedrock Aquifer Designation as determined by the British Geological Survey is: Secondary A - permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers; The Superficial Aquifer Designation as determined by the British Geological Survey is mainly: Secondary A - permeable layers capable of supporting water supplies at a local rather than strategic scale,and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

4.4 Surface Water

The Environmental data search report referenced 147965216_1_1, and plans of the site indicates that the nearest surface water feature is a reservoir, located 63m east of the site boundary. There is no evidence that the site in its present state, or any proposed development, will significantly impact surface water receptors and consequently the risk to surface waters is classified as low.

4.5 Subsurface Water

There is no evidence that the site in its present state or the proposed development will impact subsurface water receptors and consequently the risk to subsurface waters is classified as low.

4.6 Water Abstractions

The Environmental data search report referenced 147965216_1_1, indicates that there are 2 active water abstractions within 250m of the site and the site does not lie within a source protection zone. The Environment Agency England and Wales has defined Source Protection Zones (SPZs) for 2000 groundwater sources such as wells, boreholes and springs used for public drinking water supply. These zones show the risk of contamination from any activities that might cause pollution in the area. The closer the activity, the greater the risk.

The maps show three main zones (inner Zone I, outer Zone II and total catchment Zone III).

5. Mineworkings & Mineral Sites

The Information provided by the Coal Authority as part of the Environmental data search report referenced 145659865_1_1 indicates that the property is in an area which may be affected by coal mining.

The report from the Coal Authority referenced 51001695569003, confirms that:

- The property is not within a surface area that could be affected by past underground mining.
- The property is not within a surface area that could be affected by present underground mining.
- The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.
- The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.
- The property is not in an area likely to be affected from any planned future underground coal mining. However, reserves of coal exist in the local area which could be worked at some time in the future.
- There are no known coal mine entries within, or within 20 metres of, the boundary of the property.
- The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.
- The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.
- The Coal Authority has no record of a mine gas emission requiring action.
- The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st October 1994.
- The property lies outside the Cheshire Brine Compensation District.

The site is not located within a Coal Authority Development High Risk Area.

Consequently, the risk to the development on this site in respect of past, present or future coal workings or mineral extraction is classified as low.

6. Designated Environmentally Sensitive Sites

The environmental data search report referenced 147965216_1_1, indicates the site is situated within 250m of an Area of Adopted Green Belt land.

The proposed development is highly unlikely to impact this environmentally sensitive site from a contaminated land perspective.

7. Fuel Station Entries

The environmental data search report referenced 147965216_1_1, indicates the site is situated within 250m of a Fuel Station Entry.

Site name	Location	Operational period	Approximate distance from site (m)	Direction from site
Heywood Express	York Street, Adelaide Street, Heywood, OL10 4HQ.	1992 – current 2017	236	SW

The proposed development is highly unlikely to be impacted from a contaminated land perspective given the distance of the Fuel Station from the site.

8. Conceptual Model

The table below is the conceptual model for the site based on the information available at this time.

Table 8.1 Preliminary Conceptual model.

Potential Source /Hazard	Nature of Hazard (Risk Level to site given a residential end use)	Contaminants Associated with Source	Potential Pathway	Potential Receptor
	Previous ON SITE Land uses:			
1. Previous and Current Land Use Brickfield Residential Property/Vacant Land	Ground contamination **Low Risk**	None	Dermal Contact Ingestion Inhalation	Site Users Construction workers
	Gas from in-filled ground **Low Risk** Given age of any potential infill	None	None	Site Users Future Buildings & Services
	Previous OFF SITE land uses within 250m as indicated by Historical Plans Including:			
2. Infilled Pond Feature and Marl Pits	Ground contamination **Low Risk**	None	Dermal Contact Ingestion Inhalation	Site Users Construction workers
	Gas from in-filled ground **Low Risk** Given age of infill	None	Vertical and Lateral Migration	Site Users Future Buildings & Services
3. Infilled Reservoir Feature	Ground contamination **Low Risk**	None	Dermal Contact Ingestion Inhalation	Site Users Construction workers
	Gas from in-filled ground **Low Risk** Given age of infill	None	Vertical and Lateral Migration	Site Users Future Buildings & Services
4. Coal Workings & Mineral Extraction	Geotechnical Hazard **Low Risk**	None	Ground Collapse Subsidence	Humans (site users) Future Buildings & Services
	Ground contamination **Low Risk**	None	None	Site Users Services
	Mine Gas **Low Risk**	None	None	Humans (site users) Future Buildings & Services

Only sources that have not been present on site in the past or currently are considered within the off site category. Unless the information is deemed to be pertinent to the analysis.

From the sources of information examined as part of this investigation a low potential for contaminated materials to be present on site has been established along with a low potential for the presence of ground gas. There is also a low likelihood of geotechnical hazards from past coal workings.

9. Conclusions & Recommendations

The evidence presented elsewhere within this report indicates that the site is highly unlikely to have been significantly impacted by contamination from previous on site and adjacent land uses and assessment of the data available has confirmed that the risk classification from contaminated ground is low in all reasonably foreseeable circumstances and as a consequence, no new contaminant pathways will be established by the development and no further action is required. The risk to any future development from potential ground gas ingress is classified as low based on the available data and no particular measures will need to be adopted based on the recommendations within Ciria C665 best practice guidance.

9.1 Supplementary Recommendations

The site was previously occupied by a residential property which has been demolished for reasons not ascertained as part of this Phase I desk study. A prudent developer would commission a basic site investigation for geotechnical purposes to confirm foundation requirements.





Matthew Benson BSc
Geotechnical/Environmental Engineer

Mark Richardson MSc CEng MICE
Technical Director

This report has been prepared by GeoAssist Limited with all reasonable professional skill, care and diligence within the terms of the contract with Mr Zahoor Hussain. The report is confidential to Mr Zahoor Hussain, their/the named persons advisors and bankers, and GeoAssist Limited accepts no responsibility of whatever nature to third parties to whom this report may be divulged. GeoAssist Limited owns the copyright in this report. All rights are reserved, and unauthorised use is prohibited. Mr Zahoor Hussain may use the report for their/her/his own purposes.

Appendix A

A1 Site Plan

A2 Site Photographs

5896GALv1.00



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GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

A1 Site Plan

Site Name	Land Adjacent to 82 Aspinall Street
Location	Heywood
GeoAssist Ref	5896ASZ
Client	Mr Zahoor Hussain
	C/o NA Design & Construction Ltd 47 Egerton Road South Chorlton Cum Hardy Manchester M21 0YW
Planning Consultant	NA Design & Construction Ltd
NGR (centre of site)	386090,410990
Production Date	Dec 2017
Survey Method	
Surveyor	Others
Status	Final v1.00
Base Survey	OSGB36

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P1	P2
P3	P4

GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

A2 Site Photos

Site Name	Land Adjacent to 82 Aspinall Street
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Production Date	Dec 2017
Survey Method	
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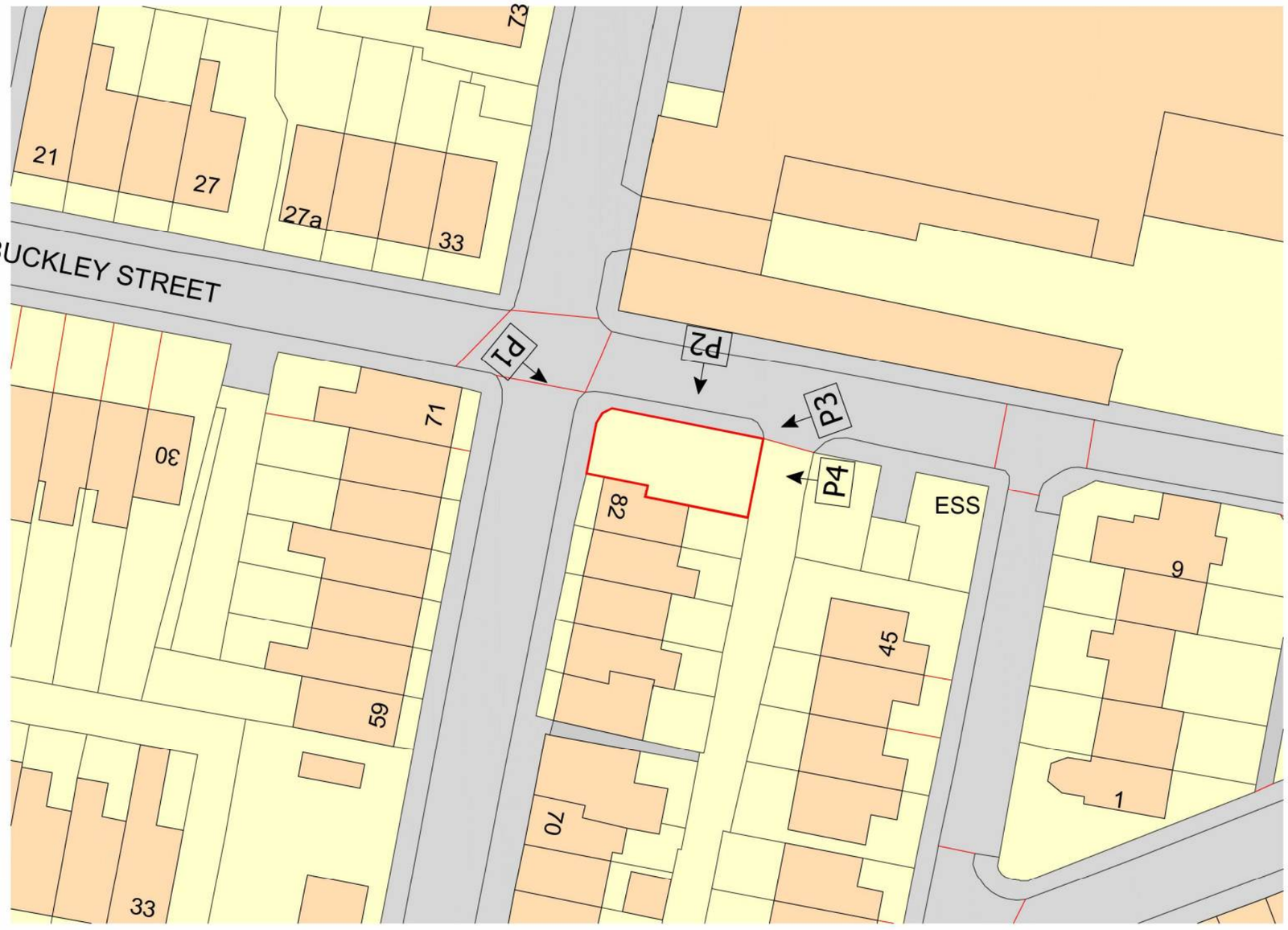

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GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

A2. Site Photo Plan

Site Name	Land Adjacent to 82 Aspinall Street
Location	Heywood
GeoAssist Ref	5896ASZ
Client	Mr Zahoor Hussain
	C/o NA Design & Construction Ltd 47 Egerton Road South Chorlton Cum Hardy Manchester M21 0YW
Planning Consultant	NA Design & Construction Ltd
NGR (centre of site)	386090,410990
Production Date	Dec 2017
Survey Method	
Surveyor	Others
Status	Final v1.00
Base Survey	OSGB36

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Appendix B
B1 Reference List of OS Historical Plans

Appendix B1

Map Series Name	Published	Source Scale
Lancashire And Furness	1851	1:10,560
Lancashire And Furness	1894	1:10,560
Lancashire And Furness	1910-1911	1:10,560
Lancashire And Furness	1932	1:10,560
Lancashire And Furness	1938	1:10,560
Ordnance Survey Plan	1955-1956	1:10,560
Ordnance Survey Plan	1965-1968	1:10,560
Ordnance Survey Plan	1974-1977	1:10,000
Ordnance Survey Plan	1983-1988	1:10,000
Ordnance Survey Plan	1993	1:10,000
10K Raster Mapping	1999	1:10,000

Appendix B1 Continued

Map Series Name	Published	Source Scale
Lancashire And Furness	1893	1:2,500
Lancashire And Furness	1910	1:2,500
Lancashire And Furness	1929-1930	1:2,500
Lancashire And Furness	1937	1:2,500
Ordnance Survey Plan	1956-1957	1:1,250
Ordnance Survey Plan	1957	1:2,500
Ordnance Survey Plan	1967-1973	1:1,250
Ordnance Survey Plan	1969-1970	1:2,500
Ordnance Survey Plan	1974-1990	1:1,250
Additional SIMs	1981-1990	1:1,250
Additional SIMs	1991	1:1,250
Large-Scale National Grid Data	1992	1:1,250
Large-Scale National Grid Data	1996	1:1,250

Appendix C

C1 Environmental Data Search

C2 Coal Authority Search

GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
147965216_1_1

Customer Reference:
5896 ASZ

National Grid Reference:
386090, 410990

Slice:
A

Site Area (Ha):
0.02

Search Buffer (m):
250

Site Details:

Land adjacent to 82, Aspinall Street
HEYWOOD
OL10 4HN

Client Details:

Mr M Richardson
GeoAssist Ltd
Unit 4
Sheffield Street
Heaton Norris
Stockport
Cheshire
SK4 1RU

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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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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v53.0

Summary

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

GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Waste			
BGS Recorded Landfill Sites	pg 6		1
Historical Landfill Sites	pg 6		1
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)			
Local Authority Landfill Coverage	pg 6	1	n/a
Local Authority Recorded Landfill Sites			
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			
Hazardous Substances			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents			
Planning Hazardous Substance Enforcements			
Geological			
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a
BGS Recorded Mineral Sites	pg 7		2
CBSCB Compensation District			n/a
Coal Mining Affected Areas	pg 7	Yes	n/a
Mining Instability	pg 7	Yes	n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain			
Potential for Collapsible Ground Stability Hazards	pg 7	Yes	
Potential for Compressible Ground Stability Hazards	pg 7		Yes
Potential for Ground Dissolution Stability Hazards			
Potential for Landslide Ground Stability Hazards	pg 7	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 7	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8		Yes
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a

Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	0	1	386087 410991
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	5	1	386100 410991
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	9	1	386100 411000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	50	1	386050 410950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	54	1	386087 411050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	113	1	386200 410950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	120	1	386150 411100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	154	1	386087 411150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	166	1	386150 411150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	167	1	385950 411100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	173	1	386200 410850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	206	1	386300 411000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	210	1	386300 410950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	228	1	385900 410850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	243	1	385950 411200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	244	1	386250 410800
1	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: John Street, Heywood, Rochdale, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Roch Reference: 016993768 Permit Version: 1 Effective Date: 20th January 2006 Issued Date: 20th January 2006 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Millers Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	233	2	385890 411130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood Sso, John Street/Willow Street, Heywood, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016950219 Permit Version: 1 Effective Date: 31st July 1981 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Millers Brook **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A13NW (W)	240	2	385840 411000
2	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: John Street, Heywood, Rochdale, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Roch Reference: 01ROC0034 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 19th January 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Millers Brook **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A13NW (W)	250	2	385830 411010
3	**Local Authority Pollution Prevention and Controls** Name: Tesco Petrol Station Location: York Street, Heywood, ROCHDALE, Lancashire, OL10 4HQ Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: P12/09 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	235	3	385984 410776
	Nearest Surface Water Feature	A13NE (E)	63	-	386157 410999
	River Quality Name: Millers Bk GQA Grade: River Quality B Reach: Qsl At Roeacre Lodge To Roch Estimated Distance (km): 1.3 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13SW (W)	19	2	386062 410984
4	**Water Abstractions** Operator: Mutual Mills Ltd Licence Number: 2569002124 Permit Version: Not Supplied Location: Millers Brook, HEYWOOD, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: River Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Additional Purpose: Domestic - industrial; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	220	2	386000 411200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Water Abstractions** Operator: Mutual Mills Ltd Licence Number: 2569002124 Permit Version: Not Supplied Location: Two Reservoirs & Millers Brook, HEYWOOD, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: River Daily Rate (m3): 45 Yearly Rate (m3): 7274 Details: Additional Purpose: Domestic - industrial; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	232	2	386200 411200
	Water Abstractions Operator: G. S. Cold Storage And Warehousing Ltd. Licence Number: 2569002082 Permit Version: 102 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SE (S)	306	2	386200 410700
	Water Abstractions Operator: Litton Ltd Licence Number: 2569002082 Permit Version: 101 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 546 Yearly Rate (m3): 134016 Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (S)	306	2	386200 410700
	Water Abstractions Operator: Roe Acre Dyeing & Felting Co. Ltd. Licence Number: 2569002022 Permit Version: Not Supplied Location: Reservoir Fed By Roe Acre Brook, Roe Acre Dam, HEYWOOD Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: River Daily Rate (m3): 2309 Yearly Rate (m3): 340950 Details: Additional Purpose: Boiler feed; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (S)	310	2	386200 410695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G. S. Cold Storage And Warehousing Ltd. Licence Number: 2569002082 Permit Version: 102 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood, L$97 Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	401	2	386200 410600
	Water Abstractions Operator: Litton Ltd Licence Number: 2569002082 Permit Version: 101 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood, L$97 Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NE (S)	401	2	386200 410600
	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 11 South Pennines Scale: 1:100,000	A13NE (N)	0	2	386087 410991
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	1	386087 410991
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	1	386087 410991
	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	A13NW (W)	180	2	385900 411005
	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	A13NW (W)	180	2	385900 411005
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 464.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Millers Brook Catchment Name: Mersey Primacy: 1	A13SW (SW)	104	4	385988 410942

Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 560.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Millers Brook Catchment Name: Mersey Primacy: 1	A13NW (NW)	233	4	385917 411160

Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**BGS Recorded Landfill Sites** Site Name: Rear of Mutual St Location: HEYWOOD, Lancs Authority: British Geological Survey, National Geoscience Information Service Ground Water: No threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A13NE (N)	197	-	386110 411191
9	**Historical Landfill Sites** Licence Holder: Mutual Mills Limited Location: Heywood Name: Mutual Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15775 First Input Date: 31st December 1882 Last Input Date: 31st December 1986 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9127 BGS Ref: 135 Other Ref: D053, RD/LIC/323/83	A13NE (N)	197	2	386110 411191
	Local Authority Landfill Coverage Name: Rochdale Metropolitan Borough Council - Has no landfill data to supply		0	3	386087 410991

Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (N)	0	1	386087 410991
10	**BGS Recorded Mineral Sites** Site Name: Heywood Brick Field Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96532 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	15	1	386074 410977
11	**BGS Recorded Mineral Sites** Site Name: Captain Fold Sand Pit Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96530 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	182	1	386192 410834
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (N)	0	5	386087 410991
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (N)	0	-	386087 410991
	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	A13NE (N)	0	1	386087 410991
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	220	1	386050 411213
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	220	1	386050 411213
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	209	1	385996 411186
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	209	1	385996 411186

Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	220	1	386050 411213
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	220	1	386050 411213
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	386087 410991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Contemporary Trade Directory Entries** Name: Futuristics Location: Sherwood House, Mutual Mills, Aspinall Street, Heywood, Lancashire, OL10 4HW Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	62	-	386124 411048
13	**Contemporary Trade Directory Entries** Name: Frank Blakeley & Son Ltd Location: Poor Peg Mill, Buckley Street, Heywood, Lancashire, OL10 4HZ Classification: Engineering Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	110	-	385972 411013
14	**Contemporary Trade Directory Entries** Name: Adelaide Engineering Location: Aspinall Street, Heywood, Lancashire, OL10 4HR Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	136	-	386151 411117
14	**Contemporary Trade Directory Entries** Name: Larkrose Location: Aspinall Street, Heywood, Lancashire, OL10 4HP Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	136	-	386151 411117
14	**Contemporary Trade Directory Entries** Name: Jeno Floral Location: Aspinall Street, Heywood, Lancashire, OL10 4HP Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	136	-	386151 411117
14	**Contemporary Trade Directory Entries** Name: Adelaide Engineering Co Ltd Location: Aspinall Street, Heywood, OL10 4HR Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	143	-	386191 411099
15	**Contemporary Trade Directory Entries** Name: Crawford'S Electrical Appliances Location: 22-26, Promenade Street, Heywood, Lancashire, OL10 4EH Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	151	-	386183 410865
16	**Contemporary Trade Directory Entries** Name: Brassingtons Ltd Location: 12, Ann Street, Heywood, Lancashire, OL10 4JG Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	155	-	385970 411103
17	**Contemporary Trade Directory Entries** Name: Armstrong Technical Services (Nw) Ltd Location: 1, Woodfield Terrace, Heywood, Lancashire, OL10 4JE Classification: Machinery - Industrial & Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	174	-	386089 411170
18	**Contemporary Trade Directory Entries** Name: O'Neill'S Decorating Centre Location: 1, Adelaide Street, Heywood, Lancashire, OL10 4HQ Classification: Wallpapers & Wall Coverings **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	193	-	385976 410827
18	**Contemporary Trade Directory Entries** Name: Heywood Discount Wallpapers Location: 1, Adelaide Street, Heywood, OL10 4HQ Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	194	-	385986 410821

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Contemporary Trade Directory Entries** Name: Digbys Auto Repairs Location: Gorton Street, HEYWOOD, Lancashire, OL10 4ED Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	205	-	386240 410843
20	**Contemporary Trade Directory Entries** Name: Lomax Reclaimations Location: Unit 2, Miller Street, Heywood, Lancashire, OL10 4HJ Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	209	-	385871 410972
21	**Contemporary Trade Directory Entries** Name: Sky Dental Ceramics Location: 165, York Street, Heywood, Lancashire, OL10 4NX Classification: Medical & Dental Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	228	-	386079 410759
21	**Contemporary Trade Directory Entries** Name: Sharpe Printing Location: 163, York Street, Heywood, Lancashire, OL10 4NX Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	229	-	386075 410758
22	**Contemporary Trade Directory Entries** Name: Esso Location: At Tesco York Street, Heywood, Lancashire, OL10 4HQ Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	234	-	385982 410778
22	**Contemporary Trade Directory Entries** Name: Roe Acre Service Station Location: York Street, Heywood, Lancashire, OL10 4NR Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	235	-	385984 410776
22	**Contemporary Trade Directory Entries** Name: Birtwistles M O T Service & Repairs Location: 135, York Street, Heywood, Lancashire, OL10 4NS Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	240	-	385991 410767
23	**Contemporary Trade Directory Entries** Name: Good As New Cleaning Ltd Location: Independence House, Adelaide Street, Heywood, Lancashire, OL10 4HF Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	234	-	385917 410822
23	**Contemporary Trade Directory Entries** Name: A To Z Solutions Centre Ltd Location: Independence House, Adelaide Street, Heywood, Lancashire, OL10 4HF Classification: Energy Efficient Products and Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	234	-	385917 410822
24	**Contemporary Trade Directory Entries** Name: Robert Scott & Sons Ltd Location: Millersbrook Mill, Miller Street, Heywood, OL10 4HJ Classification: Cleaning Materials & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	246	-	385855 410891
25	**Fuel Station Entries** Name: Heywood Express Location: York Street, Adelaide Street, Heywood, Lancashire, OL10 4HQ Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	235	-	385984 410776

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Areas of Adopted Green Belt** Authority: Rochdale Metropolitan Borough Council Plan Name: Rochdale Unitary Development Plan **Status: Adopted** Plan Date: 30th June 2006	A13NE (N)	194	7	386111 411188

Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Rochdale Metropolitan Borough Council - Environmental Health Department	October 2017	Annually
Discharge Consents Environment Agency - North West Region	October 2017	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	October 2017	Quarterly
Local Authority Integrated Pollution Prevention And Control Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North West Region	January 2015	
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	October 2017	Quarterly
Water Abstractions Environment Agency - North West Region	October 2017	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2017	Quarterly
Flood Defences Environment Agency - Head Office	November 2017	Quarterly
OS Water Network Lines Ordnance Survey	October 2017	6 Weekly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2017	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	October 2017	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	October 2017	Quarterly
Local Authority Landfill Coverage Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Rochdale 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	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Rochdale Metropolitan Borough Council	February 2016	Annual Rolling Update
Planning Hazardous Substance Consents Rochdale Metropolitan Borough Council	February 2016	Annual Rolling Update

Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	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	May 2015	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	September 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2017	Bi-Annually
Areas of Adopted Green Belt Rochdale Metropolitan Borough Council	November 2017	As notified
Areas of Unadopted Green Belt Rochdale Metropolitan Borough Council	November 2017	As notified
Areas of Outstanding Natural Beauty Natural England	August 2017	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	August 2017	Bi-Annually
Marine Nature Reserves Natural England	August 2017	Bi-Annually
National Nature Reserves Natural England	August 2017	Bi-Annually
National Parks Natural England	August 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	June 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2017	Bi-Annually
Sites of Special Scientific Interest Natural England	August 2017	Bi-Annually
Special Areas of Conservation Natural England	August 2017	Bi-Annually
Special Protection Areas Natural England	August 2017	Bi-Annually

Data Suppliers

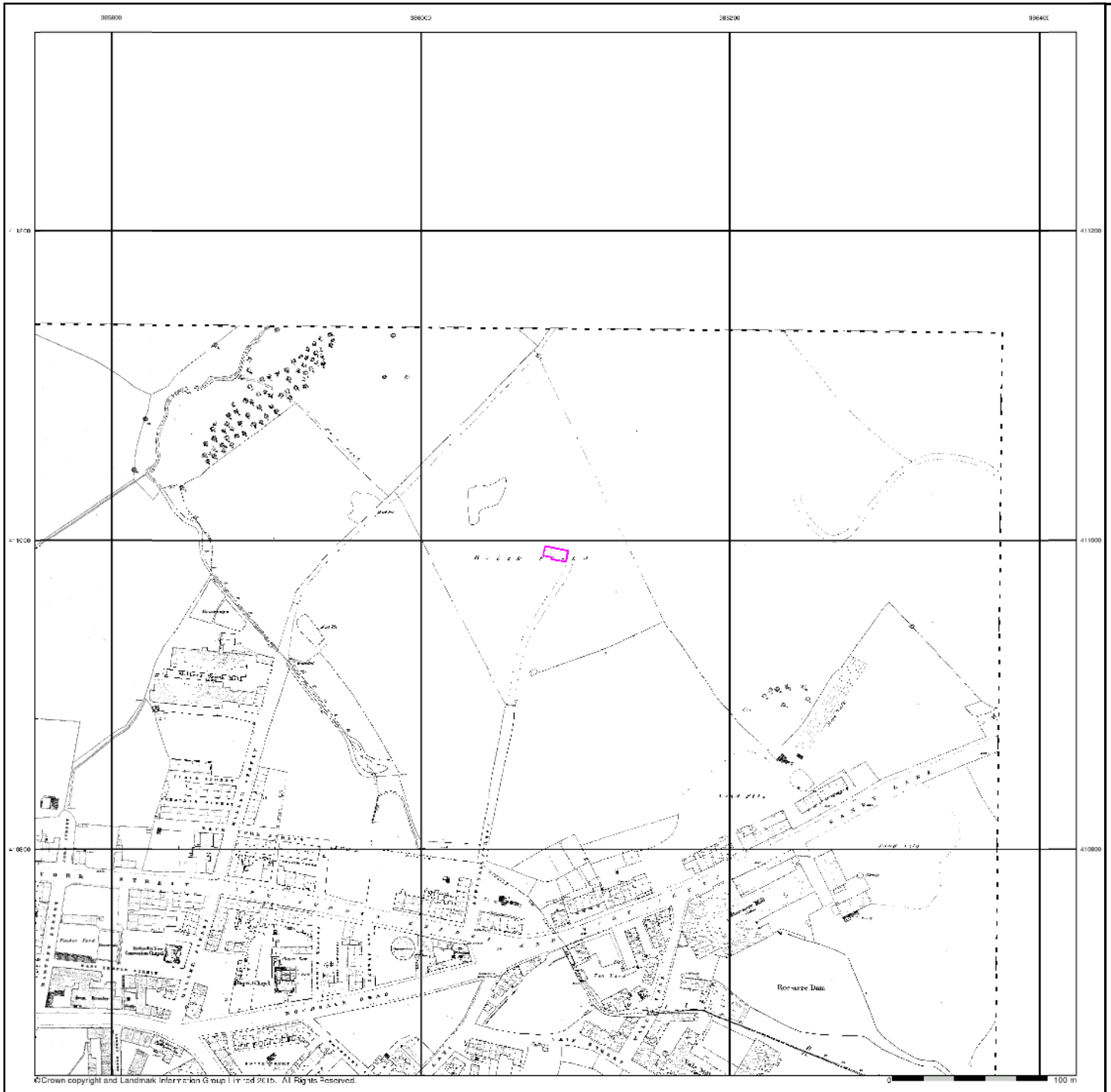
A selection of organisations who provide data within this report

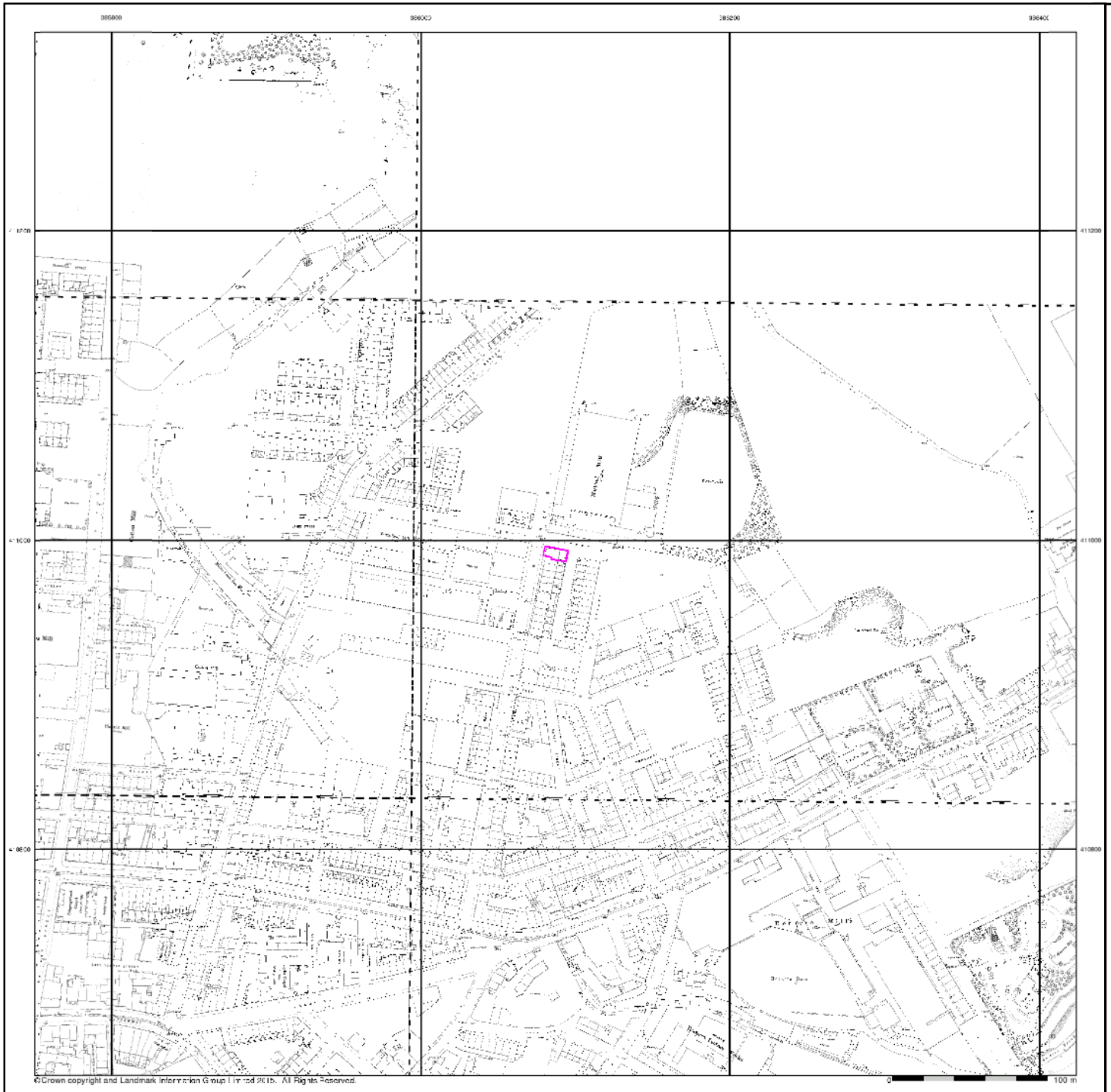
Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL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

Useful Contacts

Contact	Name and Address	Contact Details
1	**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
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Rochdale Metropolitan Borough Council - Environmental Health Department** P O Box 32, Telegraph House, Ballie Street, Rochdale, Greater Manchester, OL16 1JH	Telephone: 01706 864139 Fax: 01706 864185 Website: www.rochdale.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 023 8079 2000 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
6	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	**Rochdale Metropolitan Borough Council** PO Box 15, Town Hall, Rochdale, Greater Manchester, OL16 1AB	Telephone: 01706 647474 Fax: 01706 59475 Website: www.rochdale.gov.uk
8	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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


385800
386000
386200
386400
411200
411000
410800
Rochdale Road
Rochdale Canal
Rochdale Canal Basin
Rochdale Canal Warehouse
Rochdale Canal Warehouse
Rochdale Canal Warehouse



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Lancashire And Furness

Published 1891

Source map scale - 1:500

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

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

Map Name(s) and Date(s)

088_07_023
1891
1:500

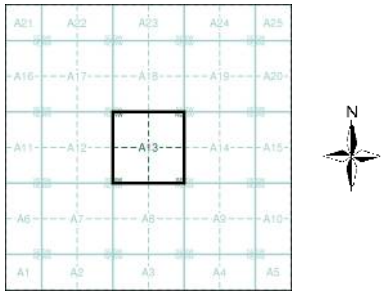
088_11_003
1891
1:500

088_11_004
1891
1:500

088_11_008
1891
1:500

088_11_009
1891
1:500

Historical Town Plan - Segment A13



Order Details

Order Number:	147965216_1_1
Customer Ref:	5896 ASZ
National Grid Reference:	386090, 410990
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	0

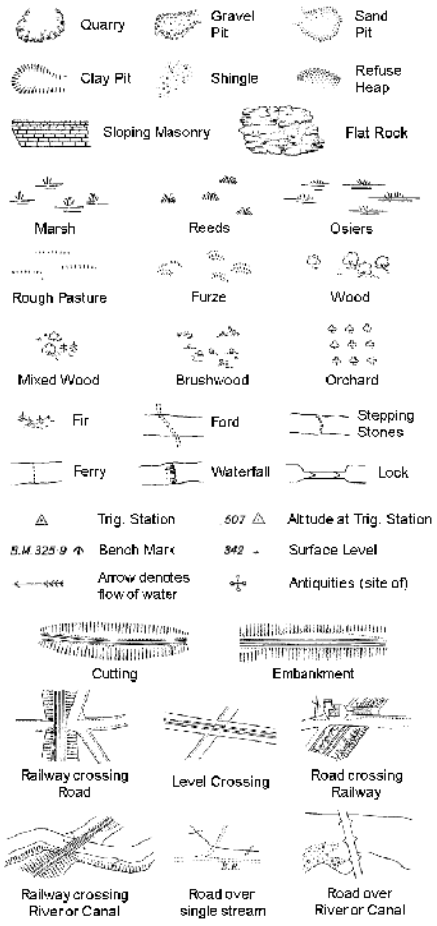
Site Details

Land adjacent to 82, Aspinall Street, HEYWOOD, OL10 4HN

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

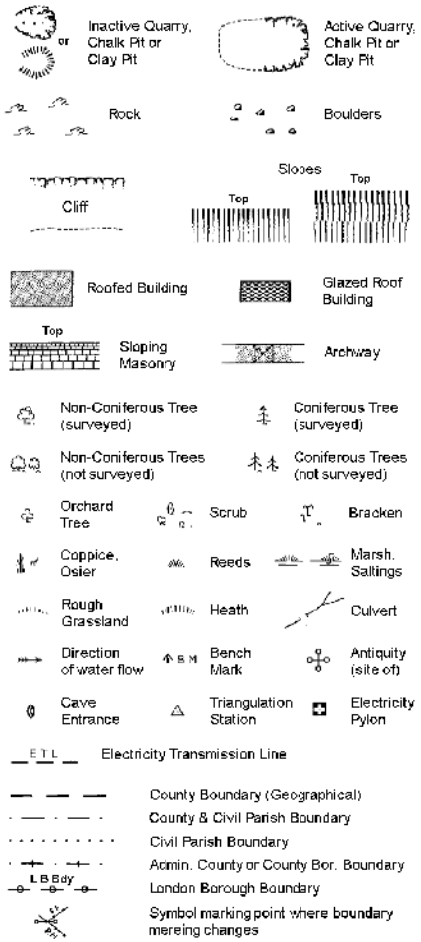
Historical Mapping Legends

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



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	*Sl.*	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



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



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 Governor	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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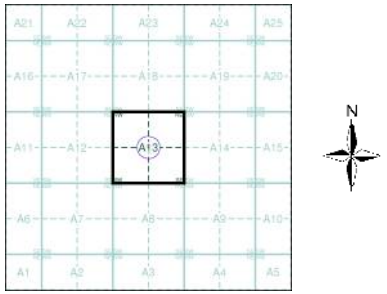
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Fumess	1:2,500	1893	2
Lancashire And Fumess	1:2,500	1910	3
Lancashire And Fumess	1:2,500	1929 - 1930	4
Lancashire And Fumess	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1956 - 1957	6
Ordnance Survey Plan	1:2,500	1957	7
Ordnance Survey Plan	1:1,250	1967 - 1973	8
Ordnance Survey Plan	1:2,500	1969 - 1970	9
Ordnance Survey Plan	1:1,250	1974 - 1990	10
Additional SIMs	1:1,250	1981 - 1990	11
Additional SIMs	1:1,250	1991	12
Large-Scale National Grid Data	1:1,250	1992	13
Large-Scale National Grid Data	1:1,250	1996	14

Historical Map - Segment A13



Order Details

Order Number: 147965216_1_1
Customer Ref: 5896 ASZ
National Grid Reference: 386090, 410990
Slice: A
Site Area (Ha): 0.02
Search Buffer (m): 100

Site Details

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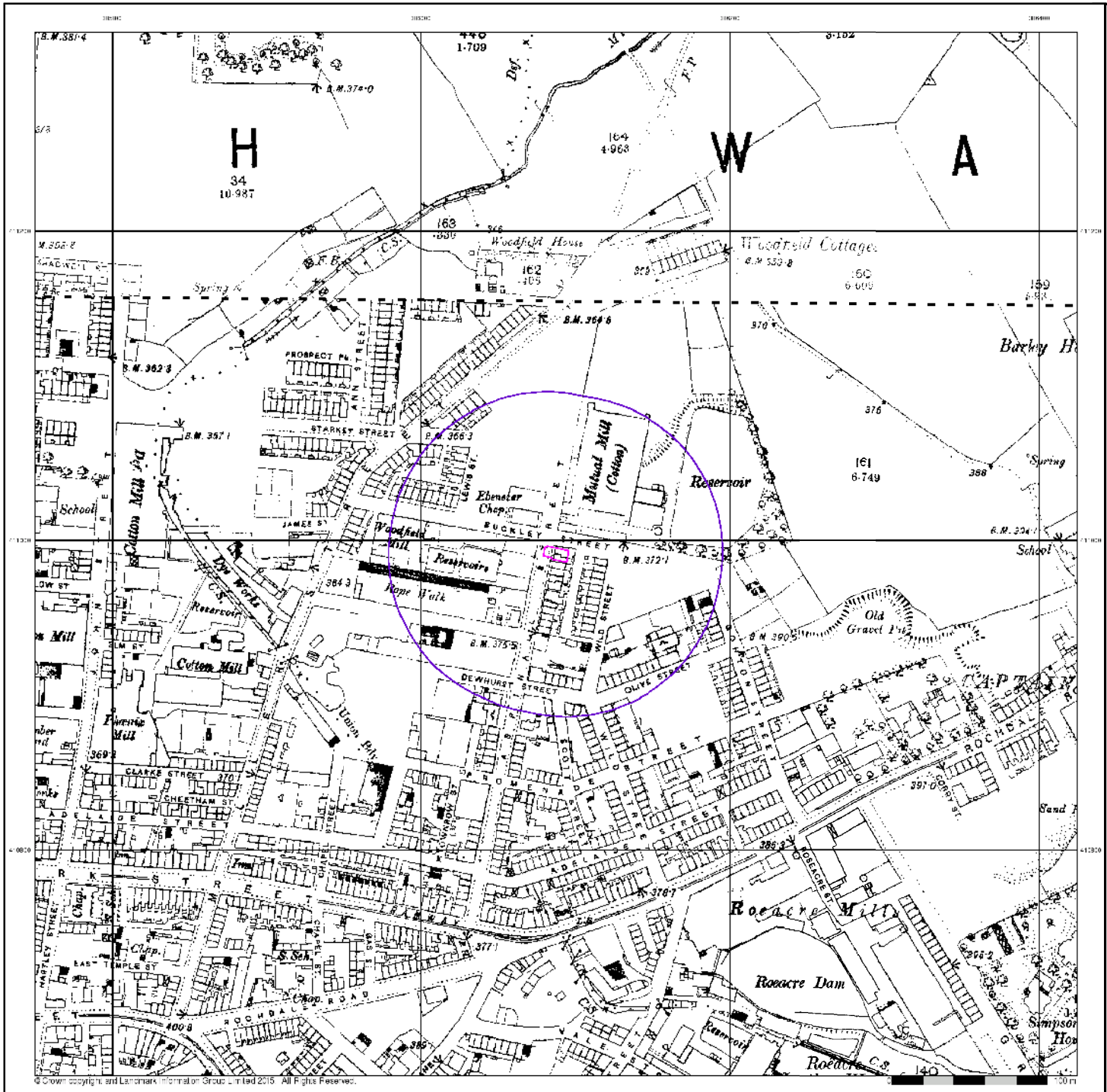
Web: www.envirocheck.co.uk



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Lancashire And Furness

Published 1893

Source map scale - 1:2,500

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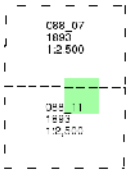
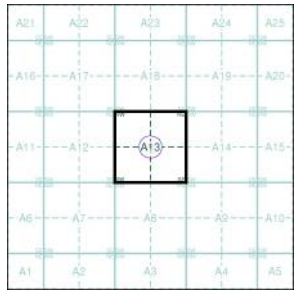
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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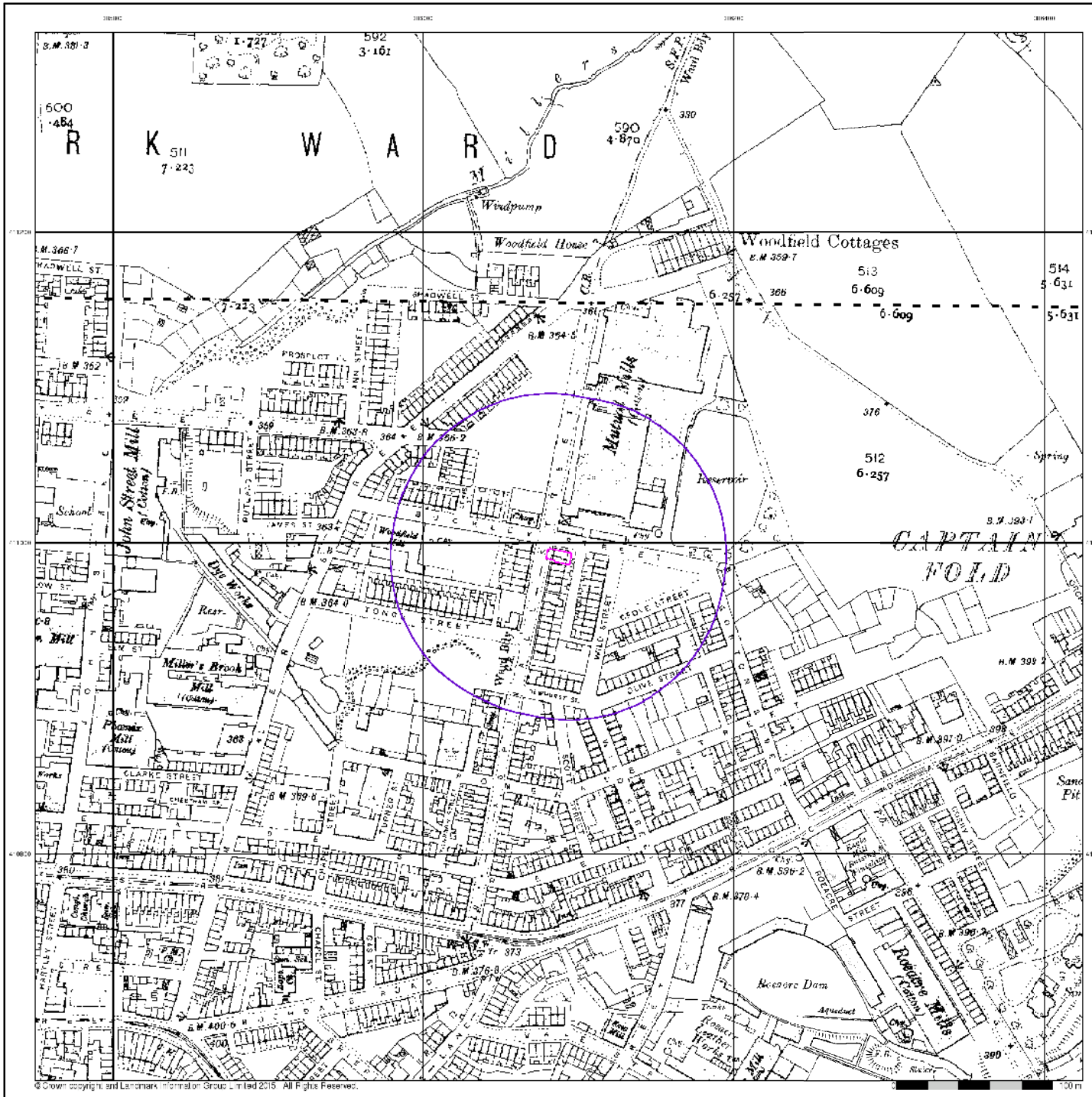
Site Area (Ha):	0.02
Search Buffer (m):	100

Site Details

Land adjacent to 82, Aspinall Street, HEYWOOD, OL10 4HN



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Lancashire And Furness

Published 1910

Source map scale - 1:2,500

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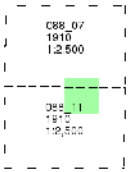
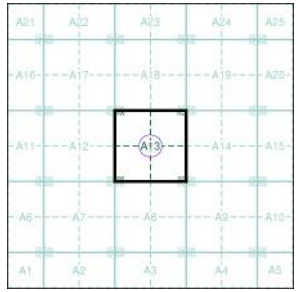


Historical Map - Segment A13



Order Details

Order Number:	147965216_1_1
Customer Ref:	5896 ASZ
National Grid Reference:	386090, 410990
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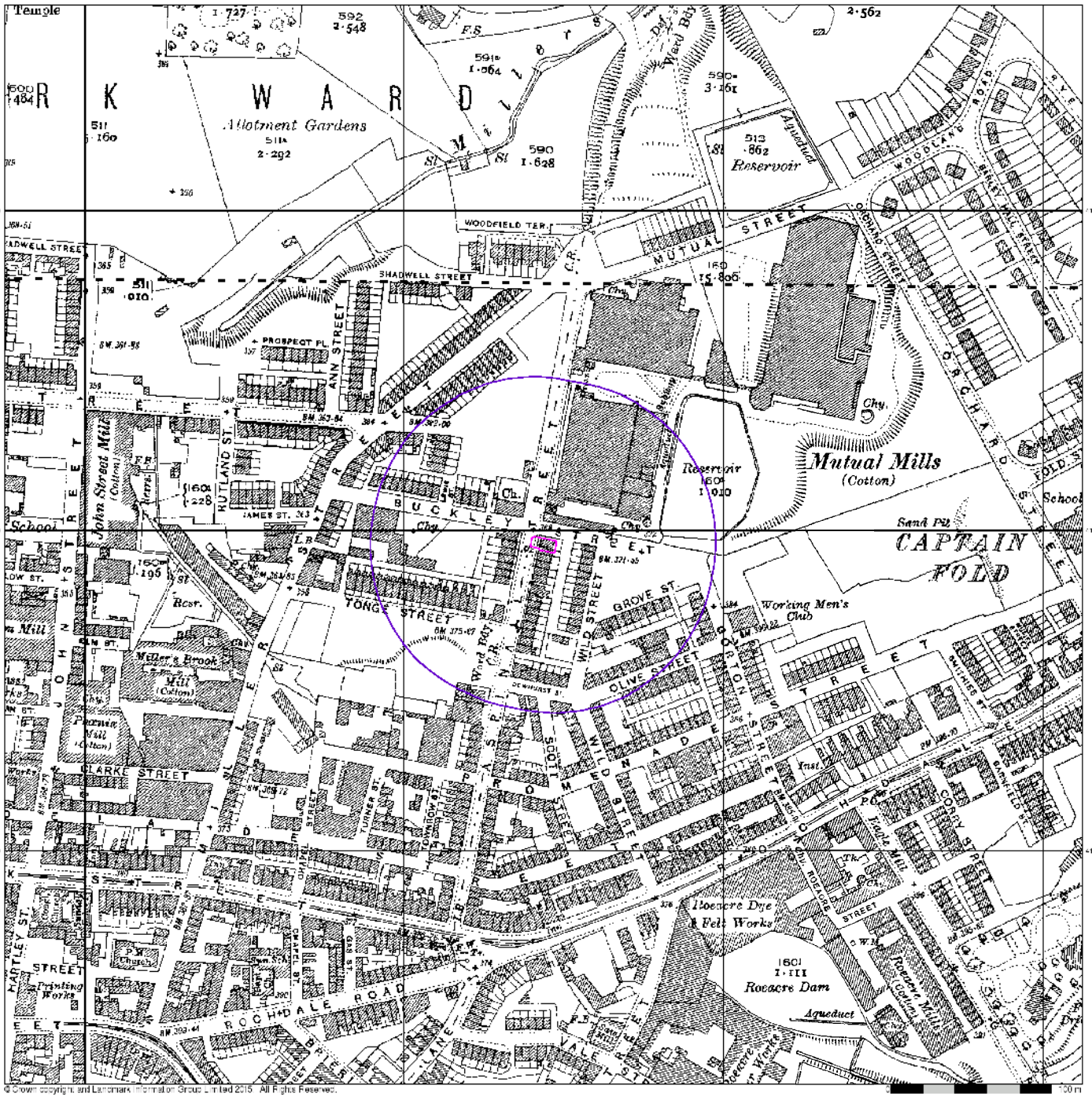
Site Area (Ha):	0.02
Search Buffer (m):	100

Site Details

Land adjacent to 82, Aspinall Street, HEYWOOD, OL10 4HN


Allotment Gardens
Reservoir
Mutual Mills
(Cotton)
CAPTAIN FOLD
Working Men's Club
Roseacre Dye & Felt Works
Roseacre Dam
Aqueduct
John Street Mill (Cotton)
Miller's Brook Mill (Cotton)
Printing Works
Chy.
School
Ch.
Rsvr.
WOODFIELD TER.
SHADWELL STREET
MUTUAL STREET
ORCHARD STREET
PROSPECT PL.
ANN STREET
RUTLAND ST.
JAMES ST.
BUCKLEY STREET
TONG STREET
GROVE ST.
OLIVE STREET
CLARKE STREET
ROCHDALE ROAD
SCOTT LANE
Sand Pit
Aqueduct
Reservoir
Reservoir
Roseacre Mills (Cotton)
Yrst.
Fmn.
Tk.
Pk.
Pond
Def.
Ward Bdy
C.R.
F.P.
Wks
Mill
Church
Rest.
Inst.
P.O.
Pub
Gas Tk.
Sch.
Ho.
Cott.
Fm.
Ruins
Sta.
Bdy
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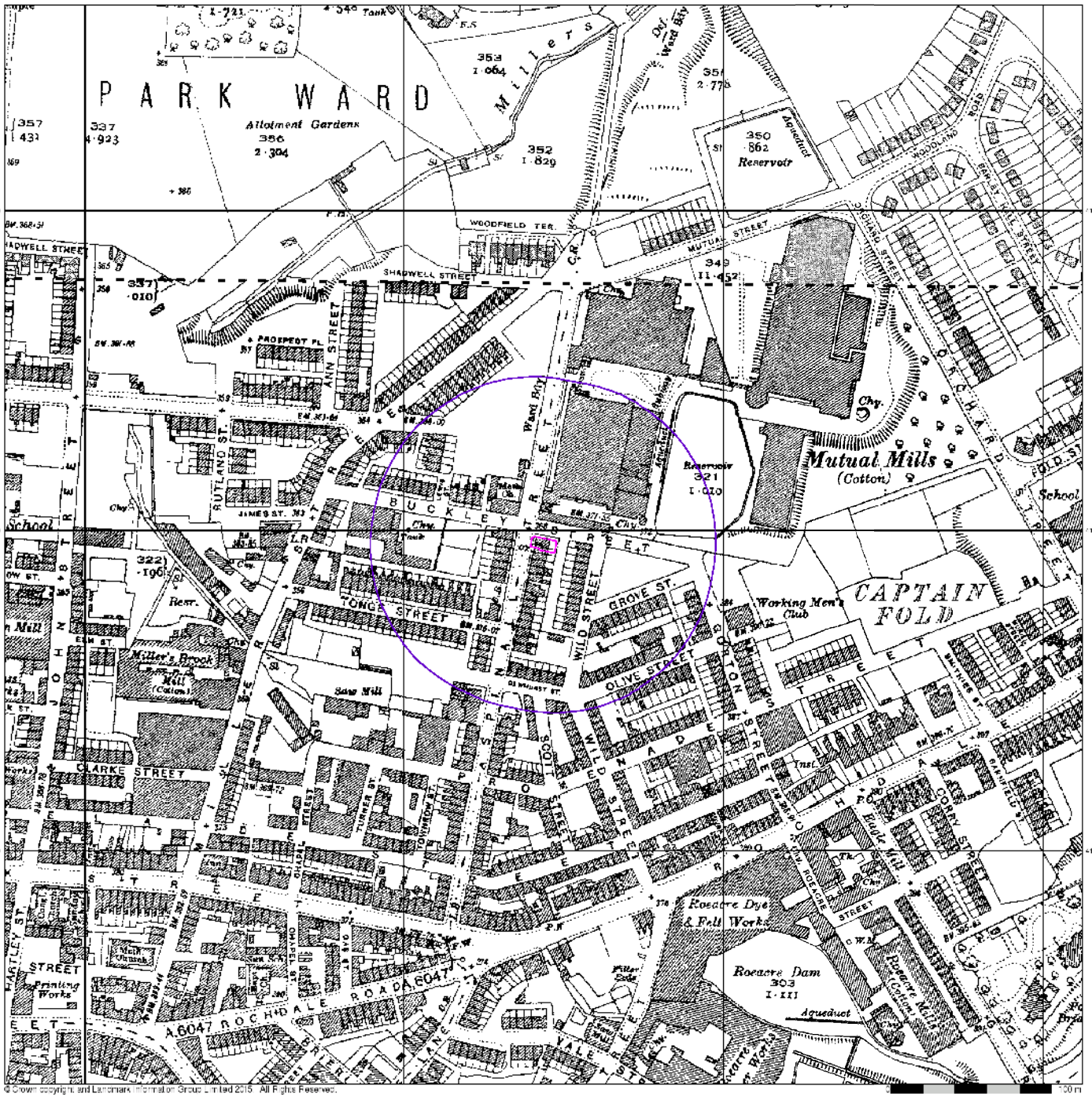
Def.
Ward Bdy
Def.
Ward Bdy
Def.



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Published 1937

Source map scale - 1:2,500

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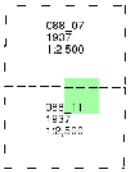
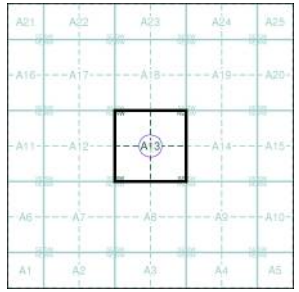
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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

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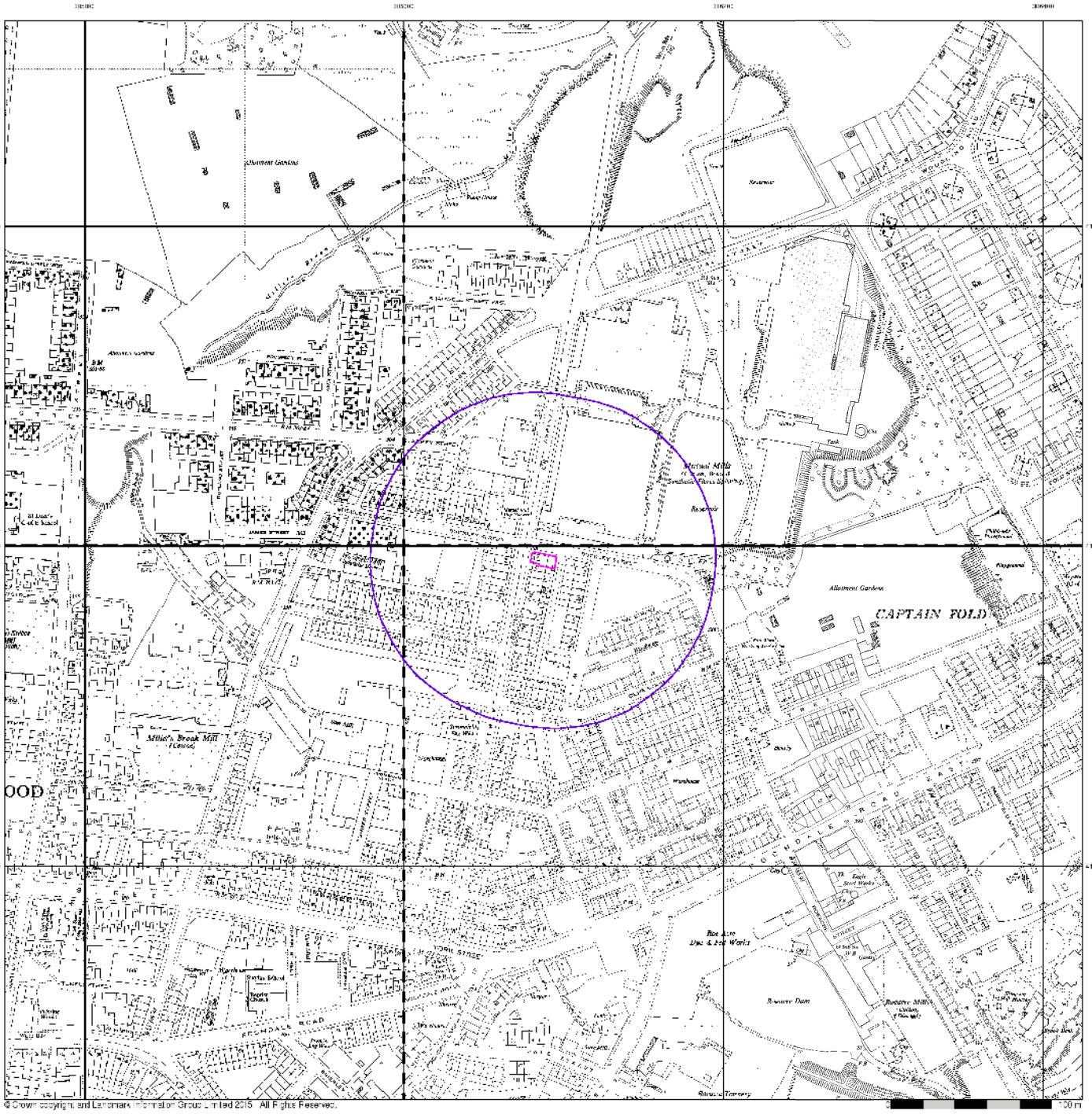

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Ordnance Survey Plan

Published 1956 - 1957

Source map scale - 1:1,250

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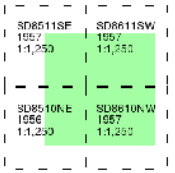
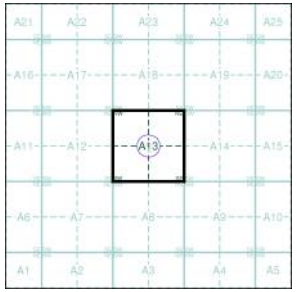
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	147965216_1_1
Customer Ref:	5896 ASZ
National Grid Reference:	386090, 410990
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	100

Site Details

Land adjacent to 82, Aspinall Street, HEYWOOD, OL10 4HN


PARK WARD
CAPTAIN FOLD
ROCHDALE ROAD
Roscow Mills (Cotton)
Roscow Dam
Millers Brook Mill (Cotton)
Mutual Mills (Cotton, Wool & Synthetic Fibre Spinning)
Allotments Gardens
Bowling Green
Bus Station
Ops & Pay Works
Rock Steel Works
Works
Reservoir
Tank
Sch
Chapel
Pumping Station
Weir
Culvert
Footbridge
Ford
Wall
Fence
Hedge
Trees
Scrub
Rough Grass
Marsh
Boundary Stone
Milestone
Direction Post
Telephone Kiosk
Post Box
Public Clock
Fountain
Flagpole
Cattle Grid
Gate
Stile
Sluice
Weir
Aqueduct
Pipe
Pylon
Electricity Transformer
Electricity Substation
Gas Governor
Gas Valve
Gas Tank
Gas Holder
Gas Pipeline
Oil Pipeline
Oil Tank
Oil Valve
Oil Pipeline
Oil Tank
Oil Valve
Oil Pipeline
Oil Tank
Oil Valve


CAPTAIN FOLD
ROCHDALE ROAD EAST
Riverside Dam
Mutual Mills
Reservoir
Bandwa
Hilltop Terrace
Hilltop Street
Hilltop Road
Aspinall Street
James Street
Britannia Street
Prospect Place
Rochdale Road
Bolton Road
Bolton Road West
Victoria Street
Victoria Square
Victoria Mill
Victoria Mill Car Park
Victoria Mill Yard
Victoria Mill Mews
Victoria Mill Close
Victoria Mill Cottages
Victoria Mill Offices
Victoria Mill Workshop
Victoria Mill Boiler House
Victoria Mill Chimney
Victoria Mill Engine House
Victoria Mill Weaving Shed
Victoria Mill Spinning Mill
Victoria Mill Warehouse
Victoria Mill Canteen
Victoria Mill Toilets
Victoria Mill Gatehouse
Victoria Mill Boundary Wall
Victoria Mill Fence
Victoria Mill Gate
Victoria Mill Entrance
Victoria Mill Exit
Victoria Mill Loading Bay
Victoria Mill Unloading Bay
Victoria Mill Parking
Victoria Mill Garden
Victoria Mill Lawn
Victoria Mill Flowerbed
Victoria Mill Tree
Victoria Mill Shrub
Victoria Mill Hedge
Victoria Mill



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GeoAssist Limited
Civil, Environmental & Geotechnical
Telephone: +44 (0) 161 480 8885 e-mail : info@geoassist.co.uk

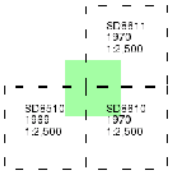
Ordnance Survey Plan

Published 1969 - 1970

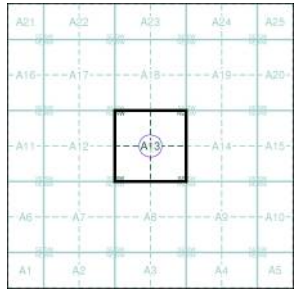
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	147965216_1_1
Customer Ref:	5896 ASZ
National Grid Reference:	386090, 410990
Slice:	A
Site Area (Ha):	0.02
Search Buffer (m):	100

Site Details

Land adjacent to 82, Aspinall Street, HEYWOOD, OL10 4HN



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Ordnance Survey Plan

Published 1974 - 1990

Source map scale - 1:1,250

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

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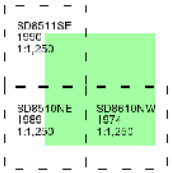
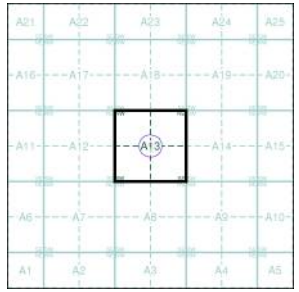


Historical Map - Segment A13



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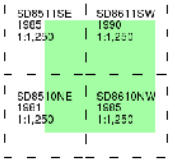
Additional SIMs

Published 1981 - 1990

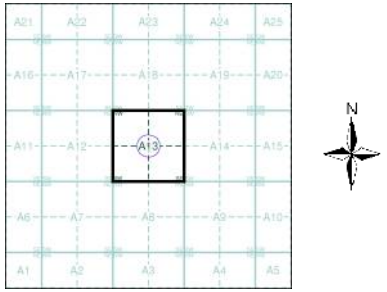
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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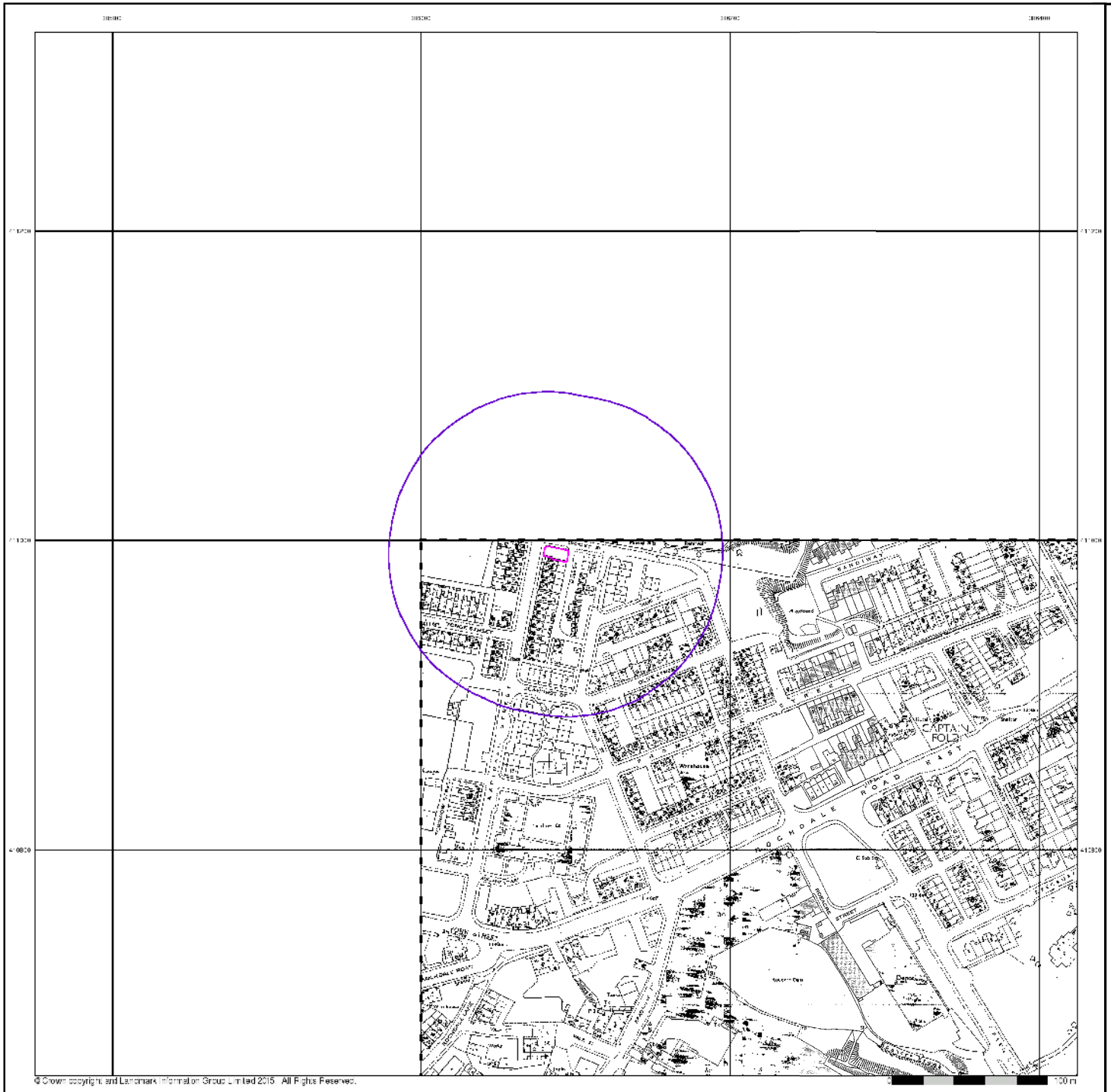

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Additional SIMs

Published 1991

Source map scale - 1:1,250

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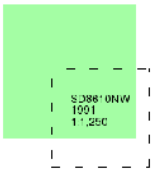
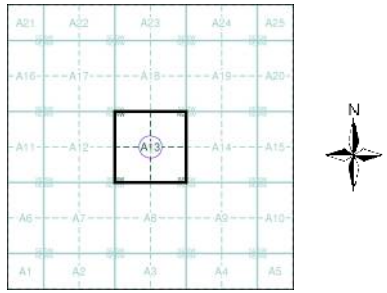


Historical Map - Segment A13



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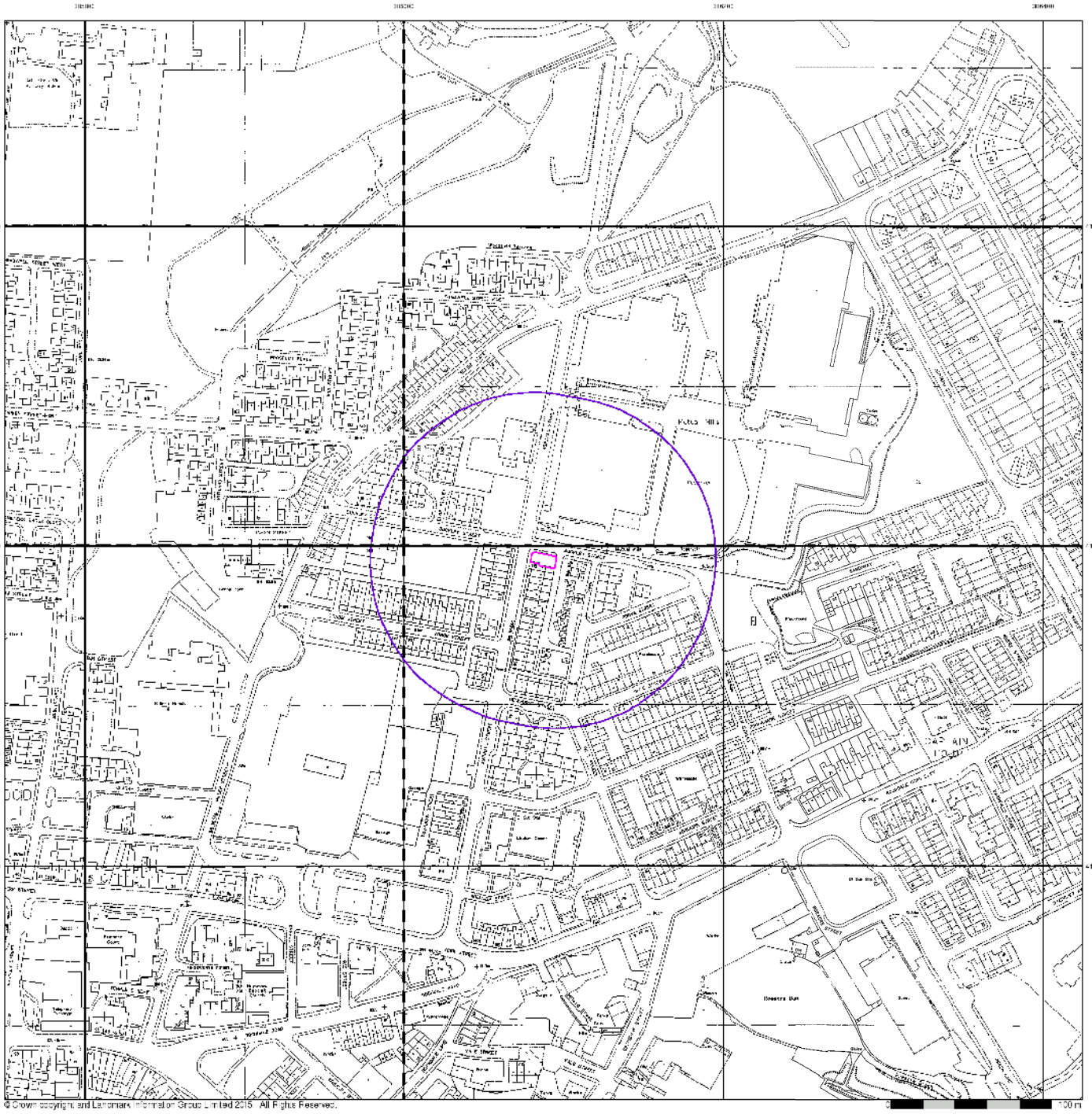

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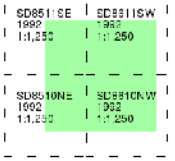
Large-Scale National Grid Data

Published 1992

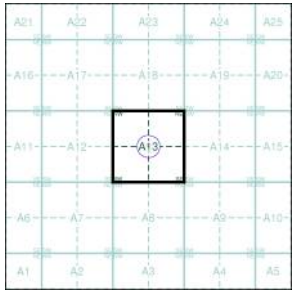
Source map scale - 1:1,250

'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



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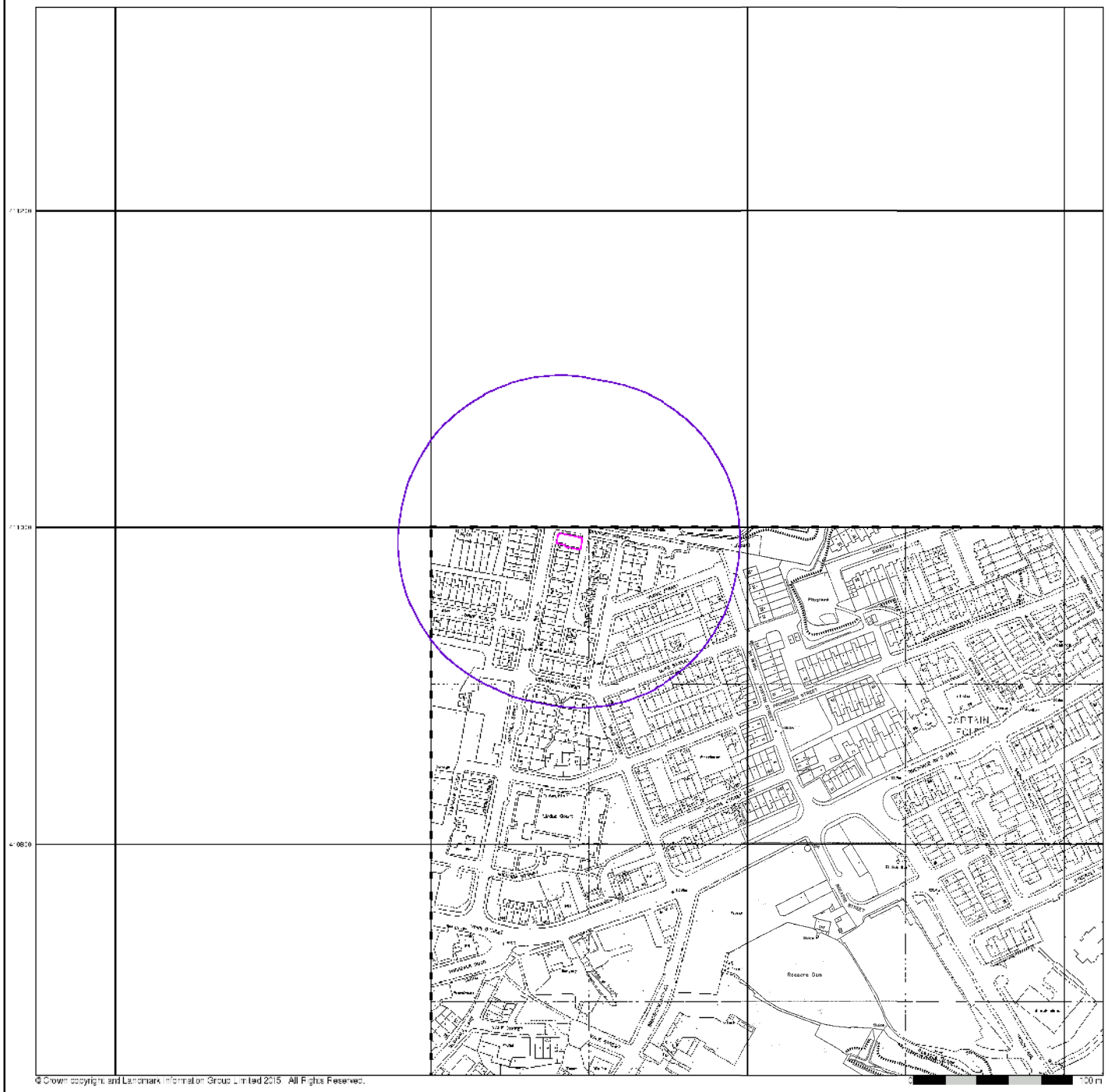

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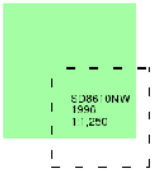
Large-Scale National Grid Data

Published 1996

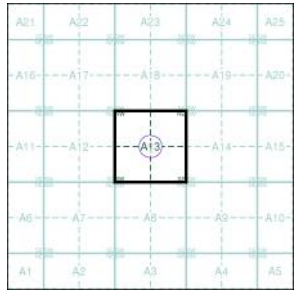
Source map scale - 1:1,250

'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



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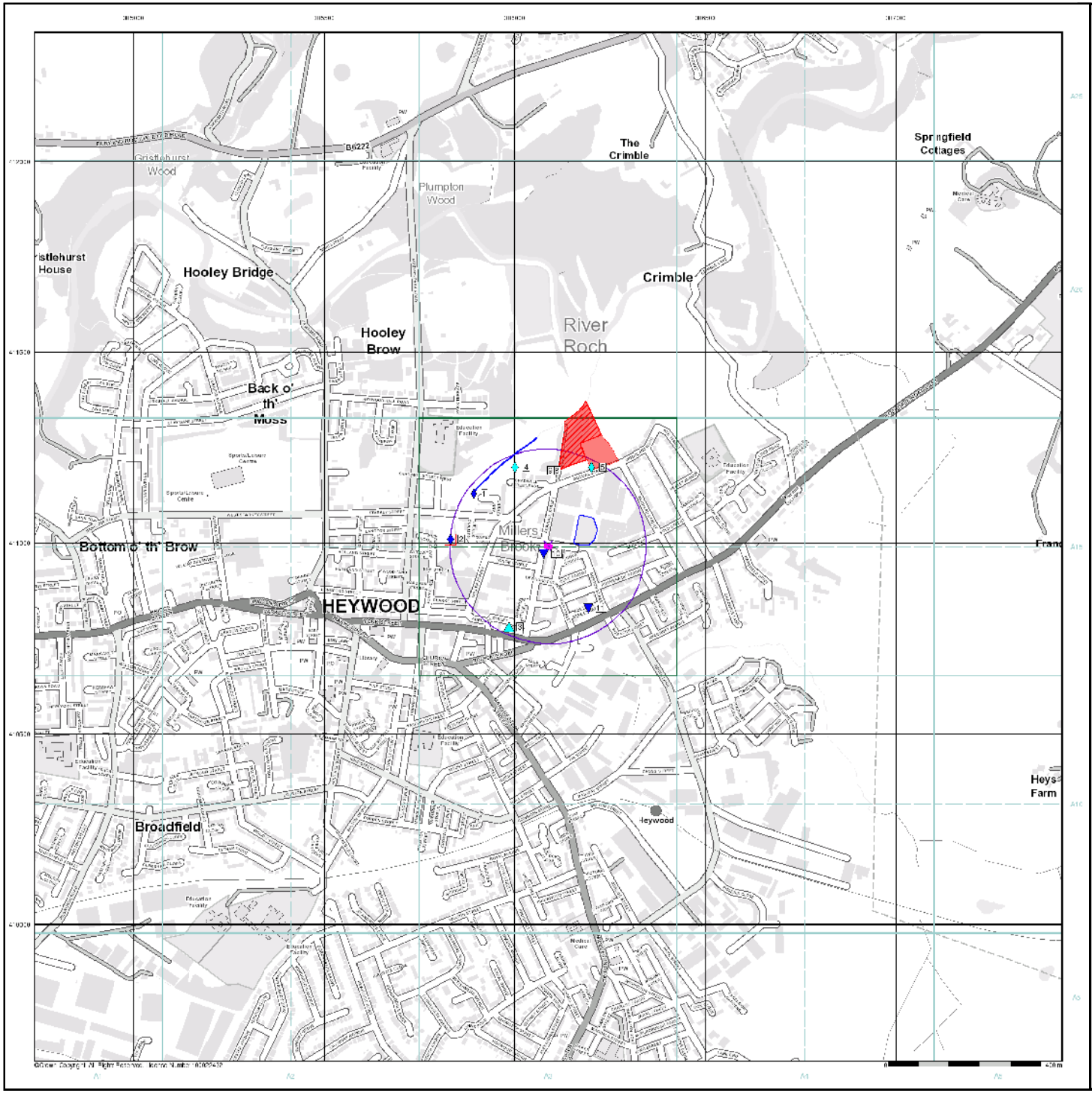

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General

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

Agency and Hydrological

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

Waste

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

Geological

- BGS Recorded Mineral Site

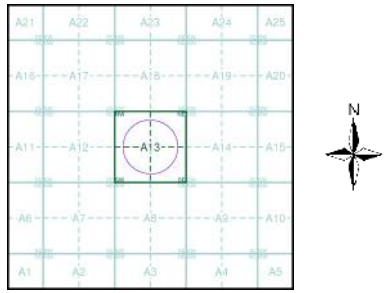
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



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