

CONTAMINATED LAND RISK ASSESSMENT

Phase 1 Desk Study Report

Site Address

17 Prospect Place,
Heywood,
OL10 4JQ

Client

Eagles Estate Ltd

Report Reference

PH1-2023-000007

Prepared by

STM Environmental Consultants Ltd

Date

22/02/2023



**CONSULTING GEO-ENVIRONMENTAL
ENGINEERS AND SCIENTISTS**

Phase 1 Contaminated Land Desk Studies, Geo-Environmental Site Investigations, Environmental Due Diligence, Flood Risk Assessments, Surface Water Management Strategies (SuDS), Ecology, Noise and Air Quality Assessments, Environmental Management Systems, GIS & Data Management Systems

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2 DOCUMENT CONTROL



CONTAMINATED LAND RISK ASSESSMENT Phase 1 Desk Study Report



Site Address:	17 Prospect Place, Heywood, OL10 4JQ
Site Coordinates:	385900, 411106
Prepared for:	Eagles Estate Ltd
Report Reference:	PH1-2023-000007
Version No:	1.0
Date:	22/02/2023
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3 DISCLAIMER

This report and any information or advice which it contains, is provided by STM Environmental Consultants Ltd (STM) and can only be used and relied upon by Eagles Estate Ltd (Client).

STM has exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant when undertaking works of this nature. However, STM gives no warranty, representation or assurance as to the accuracy or completeness of any information, assessments or evaluations presented within this report. Furthermore, STM accepts no liability whatsoever for any loss or damage arising from the interpretation or use of the information contained within this report. Any party other than the Client using or placing reliance upon any information contained in this report, do so at their own risk.

It is noted that some of the findings presented in this report are based on information obtained from third parties (i.e. Environmental Search Report). Whilst we assume that all information is representative of the site and of present conditions, we can offer no guarantee as to its validity regarding the short term or long-term history of the Site.

This report excludes consideration of potential hazards arising from any activities at the Site other than normal use and occupancy for the intended land uses. Hazards associated with any other activities have not been assessed and must be subject to a specific risk assessment by the parties responsible for those activities.

It should be noted that this report has been produced for environmental purposes only. It should not in any way be construed to be or used to replace a geotechnical survey, structural survey, asbestos survey, buried services survey, unexploded ordnance survey or Invasive Plant Survey.

4 EXECUTIVE SUMMARY

SECTION	SUMMARY
Site Location And Size	The site is located at 17 Prospect Place, Heywood, OL10 4JQ and is centred at national grid reference 385900, 411106. The site has an area of approximately 0.02 ha.
Current Site Use	The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east. The main current uses in the immediate surrounding area include residential dwellings and open undeveloped land.
Proposed Development	The development proposal is for the erection of 3no. residential dwellings. It is understood that there are proposals to include soft landscaping in the development.
Site History	Examination of Ordnance Survey historic maps revealed that the site was open undeveloped land in c.1851. 1no. unspecified building was developed in the east of the site in c.1955-56. By c.1973-75 the site was cleared and 2no. small unspecified buildings were developed in the south of the site. By c.1989-92 the building in the south east of the site was demolished, after which no further significant changes occurred. The surrounding area has been predominantly residential, with Industrial properties over 100m away present to the south and east.
Geology	According to BGS, the bedrock geology beneath the site consists of Pennine Lower Coal Measures Formation comprising Mudstone, Siltstone and Sandstone while superficial deposits of Glaciofluvial Deposits, Devensian comprising Sand and Gravel were identified.
Topography	The site is at an elevation of approximately 108mAOD (above Ordnance Datum).
Hydrogeology	The site is underlain by Secondary A Superficial and Bedrock Aquifers.
Hydrology	The nearest surface water body is Millers Brook located 20m NW.
Ecology	There are no ecological receptors located on or within 250m of the site.
Coal Mining	The site is located in an area potentially affected by Coal Mining. It is recommended that a Coal Mining Risk Assessment is undertaken for the site as this is outside the scope of this assessment.
Contamination Assessment	On site potentially contaminative land uses (PCLUs) have included a Small Domestic Garage and Unknown Ground Workings/Refuse Heap while off site PCLUs include Allotment Gardens (25m W), Infilled Marl Pit (85m SE), 4no. Infilled Reservoirs (90m SW, 130m S, 135m SE & 240m SW), Refuse Tip (115m SW) and Mutual Street Historical Landfill (217m E). Potential Coal Mine Gas was also identified as a further potential source of contamination. A conceptual site risk model was developed and a qualitative risk assessment carried out.

	Potentially significant potential pollutant linkages were identified in respect of: - Human Health Receptors - via ingestion, dermal absorption and inhalation (indoors and outdoors); - Human Health Receptors - Explosion/Fire risk due to build-up of Methane in confined spaces; - Property Receptors – Damage to Buildings and Services due to the presence of aggressive chemicals in the soil. - Property Receptors - Explosion/Fire risk due to build-up of Methane in confined spaces
Recommendations	Given that potentially significant potential pollutant linkages were identified, it is recommended that an intrusive site investigation is undertaken with the objective of determining the presence and extent of any soil and gaseous contamination at the site.
This table is intended as a summary of the desk study findings and should be read in conjunction with the main report.	

5 INTRODUCTION

STM Environmental Consultants Ltd (STM) were commissioned by Eagles Estate Ltd (Client) to undertake a Phase 1 Contaminated Land Risk Assessment (CLRA) at a site located at 17 Prospect Place, Heywood, OL10 4JQ.

The study is required to support the planning application 22/01531/FUL.

5.1 Development Proposal

The development proposal is for the erection of 3no. residential dwellings. It is understood that there are proposals to include soft landscaping in the development.

The proposed development plans are contained in [Appendix 2](#).

6 CONTEXT AND OBJECTIVES FOR THE RISK ASSESSMENT

6.1 Legislative Context

6.1.1 Part IIA

Part IIA of the Environmental Protection Act 1990, which came into force in England in April 2000 and in Wales in July 2001, introduced a new statutory regime for the identification and remediation of contaminated land in the United Kingdom.

The legislation considers risks from contaminated land to human beings, controlled waters (surface and ground water), protected ecological systems and property. Under the legislation "contaminated land" is defined 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 significant possibility of such harm being caused: or

(b) Pollution of controlled waters is being caused, or is likely to be, caused."

In order for land to be considered contaminated, there must be a contaminant, a receptor and a pathway (via which the contaminant can reach the receptor) present at the site. When these three components are identified at a site, a *pollutant linkage* is said to exist.

Pollutant Linkage = Contaminant → Pathway → Receptor

In order for a local authority to determine that a site is contaminated land, it must be satisfied that the pollutant linkage is a *significant pollutant linkage* and that the land in question is causing, or that there is a significant possibility that it will cause significant harm (SPOSH) to humans, habitats, buildings or livestock and crops if remedial work is not carried out.

6.1.2 National Planning Policy Framework

The National Planning Policy Framework (NPPF) sets out the government's policy on dealing with land contamination through the planning process. It states that planning policies and decisions should ensure that:

- a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);
- after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and
- adequate site investigation information, prepared by a competent person, is presented.

6.1.3 Environmental Damage Regulations

The Environmental Damage (Protections and Remediation) Regulations 2015 transpose the provisions of the EU Environmental Liability Directive into law in England and Wales.

The Regulations require action in response to the most significant cases of environmental damage. They cover specific types of:

- damage to species and habitats;
- damage to water; or
- risks to human health from contamination of land.

The Regulations apply to both imminent threats and actual cases of damage. Where these arise, those responsible must take immediate action to prevent damage occurring or remediate damage where it does occur.

The Regulations are based on the polluter pays principle 'requiring those responsible to meet the cost of preventive and remedial measures.

6.2 Objectives

This Desk Study has been written so as to provide an initial overview of the nature and extent of contamination hazards that may exist at the site. It has been undertaken in accordance with the specifications outlined in the British Standard BS 10175:2011+A2:2017 Code of Practice for the Investigation of potentially contaminated sites and the Environment Agency Document, LCRM: Stage 1 Risk Assessment.

The main objectives of the study were to:

- Enable a conceptual site risk model to be constructed;
- Provide sufficient information for a preliminary qualitative risk assessment to be undertaken;
- Inform the need for and scope of any intrusive investigations that may be required.

6.3 Summary of Research Undertaken

Details of information sources researched in order to compile this desk study are given below.

- Environment Agency Open Data (GIS)
- English Nature Open Data (GIS)
- English Heritage Open Data (GIS)
- British Geological Survey GeoIndex Web Map Service
- Coal Authority Open Data and Web Map Service.
- Historical Ordnance Survey Maps

-  Local Authority Planning Application Portal
-  Groundsure Enviro Insight Report & Historical Maps
-  Bomb Sight Web Map Service for UXO

7 SITE DESCRIPTION

7.1 Site Location and Size

The site is located at 17 Prospect Place, Heywood, OL10 4JQ at grid reference is 385900, 411106. The site has an area of approximately 0.02 ha.

The site lies within the jurisdiction of Rochdale Metropolitan Borough Council in terms of the planning process. See Figure 1 below for the Site Location and Aerial Map.

7.2 Current Site Use

The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east.

7.3 Surrounding Land Uses

A description of current land uses surrounding the boundaries of the site is given below in Table 1.

Table 1: Summary of surrounding land uses

Boundary	Land Use Description
Northern	Prospect Place/Open Undeveloped Land
Eastern	Residential
Southern	Residential
Western	Prospect Place/Open Undeveloped Land

Figure 1: Site Location and Aerial Map



8 SITE HISTORY

8.1 Analysis of Historical Ordnance Survey Mapping

Historical maps published by the Ordnance Survey dating back to the late 1800's were reviewed in order to ascertain any previous industrial use at the site. The Groundsure Historical Maps are presented in [Appendix 3](#). A summary of the historic map analysis is provided in Table 2.

Table 2: Summary of historical land use identified from historical maps

Map Year & Scale	POTENTIALLY CONTAMINATIVE LAND USES	
	On Site	Off Site
1851 1:1,056 1:10,560	The site comprises undeveloped land.	The surrounding area is predominantly open undeveloped land. Marl Pit 85m SE.
1890 1:2,500 1:10,560	No significant changes.	The surrounding area has undergone major development to the E, S & W; including the adjacent residential properties. Marl Pit 85m SE has been redeveloped as residential properties, likely infilled. 3no. Cotton Mills 75m SW, 160m S & 175m SW. Dye Works 100m SW. Woodfield Mill 105m SE. 2no. Reservoirs 130m S & 135m SE. Mutual Mill (Cotton) 200m E. Phoenix Mill 200m SW. 2no. Timber Yards 210m SW & 250m SW. Saw Mill 230m W.
1908-09 1:10,560	Whilst not identified in the maps, within the Groundsure Report a Refuse Tip is listed as present onsite in c.1909. This is likely associated with the Unknown Ground Workings located adjacent NW.	Unknown Ground Workings adjacent NW.
1910 1:2,500	No significant changes.	Cotton Mills 75m SW relabelled John Street Mill (Cotton). Reservoirs 135m SE no longer present. Cotton Mill 160m S relabelled Miller's Brook Mill (Cotton).

Table 2: Summary of historical land use identified from historical maps

Map Year & Scale	POTENTIALLY CONTAMINATIVE LAND USES	
	On Site	Off Site
		Phoenix Mill 200m SW has been relabelled Phoenix Mill (Cotton). Timber Yard 250m SW no longer present. Smithy 240m S.
1928 1:10,560	No significant changes.	No significant changes.
1929-30 1:2,500	No significant changes.	Dye Works 100m SW no longer labelled. Woodfield Mill 105m SE no longer labelled. Mutual Mill (Cotton) 200m E no longer labelled. Timber Yard 210m SW no longer labelled. Smithy 240m S no longer labelled. Allotment Gardens 75m N. 2no. Reservoirs 90m SW & 240m SW. Brass Works 235m SW.
1937 1:2,500	No significant changes.	John Street Mill (Cotton) 75m SW no longer present. Reservoir 90m SW no longer present. Phoenix Mill (Cotton) 200m SW no longer labelled. Saw Mill 230m W no longer present. 2no. Tanks 130m SE & 220m NE. Saw Mill 210m S.
1938 1:10,560	No significant changes.	No significant changes.
1955-56 1:1,250 1:2,500	1no. unspecified building developed in the east of the site.	Allotment Gardens 75m N have expanded, now located 60m NW. 2no. Reservoirs 130m S & 240m SW no longer present. Cotton Mill 175m SW relabelled Willow Street Mill (Cotton). 3no. Allotment Gardens 25m W, 95m NE & 200m W.

Table 2: Summary of historical land use identified from historical maps

Map Year & Scale	POTENTIALLY CONTAMINATIVE LAND USES	
	On Site	Off Site
		Builder's Yard 100m S. Woodfield Mill (Industrial Gloves) 105m SE. Electricity Substation 175m SW. Garage 210m SW. Builder's Yard 210m SW. Engineering Works 235m SW. Springfield Engineering Works 240m SE. Warehouse 240m SE.
1957-58 1:1,250 1:2,500	No significant changes.	Mutual Mills (Cotton, Wool & Synthetic Fibres Spinning) 200m E.
1965-68 1:1,250 1:10,560	No significant changes.	Builder's Yard 210m SW relabelled Plastic Works. Springfield Engineering Works 240m SE no longer labelled. Warehouse 240m SE no longer labelled. Refuse Tip 115m SW.
1969 1:2,500	Blank map.	Partial mapping only; no significant changes.
1973-75 1:1,250 1:10,000	The site has been cleared, and 2no. small unspecified buildings have been developed in the south of the site.	3no. Allotment Gardens 25m W, 65m NW & 95m NE no longer labelled. Engineering Works 235m SW no longer labelled. Electricity Substation 235m NW.
1981-85 1:1,250	No significant changes.	Partial mapping only; Refuse Tip 115m SW no longer labelled. Plastic Works 210m SW relabelled Works. Brass Works 235m SW no longer present.
1987 1:10,000	No significant changes.	No significant changes.
1989-92 1:1,250 1:10,000	The building in the eastern side of the site has been demolished.	Building Yard 100m S has been relabelled as a Scrap Yard.

Table 2: Summary of historical land use identified from historical maps

Map Year & Scale	POTENTIALLY CONTAMINATIVE LAND USES	
	On Site	Off Site
		Electricity Substation 225m SE.
2001 1:10,000	No significant changes.	No significant changes.
2003 1:1,250	No significant changes.	Woodfield Mill (Industrial Gloves) 105m SE relabelled Mill.
2010 1:10,000	No significant changes.	No significant changes.
2023 1:10,000	No significant changes.	No significant changes.
Current Use	The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east.	The main current uses in the immediate surrounding area include residential dwellings and open undeveloped land to the N & W.

9 ENVIRONMENTAL CHARACTERISTICS

A variety of Environmental datasets provided by the Environment Agency, British Geological Society, English Heritage and English Nature and others were screened in order to assess the environmental sensitivity of the site. The Groundsure Environmental Screen Report is presented in [Appendix 4](#). The results are summarised below.

9.1 Geology

9.1.1 Published Geology

According to the BGS Geoindex, the site is located on bedrock of Pennine Lower Coal Measures Formation comprising Mudstone, Siltstone and Sandstone. The superficial deposits are Glaciofluvial Deposits, Devensian comprising Sand and Gravel.

9.1.2 Unpublished Geology

BGS borehole records for the immediate surrounding area were reviewed in order to obtain further information on the ground conditions beneath the site. No relevant information was identified.

9.2 Hydrogeology

The Environment Agency classifies the superficial deposits as a Secondary A Aquifer. The bedrock is classified as a Secondary A Aquifer. There are no groundwater Source Protection Zones on or within 250m of the site.

9.3 Water Abstractions

No Potable Water Abstraction Licenses were identified on or within 1000m of the site.

The following Groundwater (GW) and Surface Water (SW) Abstraction Licenses were identified within 1000m of the site:

Table 3: Groundwater and Surface Water Abstraction Licenses identified within 1000m of the site

Point	Status	Details	Source	Distance/ Direction
Boreholes (2) At Premises, Roeacre Tannery, Heywood (GW)	Historical	Process Water	Ground Water – North West Region	495m SE
Boreholes (2) At Premises, Roeacre Tannery, Heywood, L97 (GW)	Historical	Process Water	Ground Water – North West Region	578m SE
Borehole At Premises, Crimble Mills, Heywood (GW)	Historical	Boiler Feed	Ground Water – North West Region	766m NE
Borehole At Premises, Crimble Mills, Heywood (GW)	Historical	Process Water	Ground Water – North West Region	766m NE
Borehole At Premises, Crimble Mills, Heywood (GW)	Historical	Process Water	Ground Water – North West Region	766m NE
Borehole At Premises, Crimble Mills, Heywood (GW)	Historical	Boiler Feed	Ground Water – North West Region	766m NE
River Roch At Heywood (SW)	Historical	Boiler Feed	Surface, Non-Tidal – North West Region	766m NE
River Roch At Heywood (SW)	Historical	Process Water	Surface, Non-Tidal – North West Region	766m NE

9.4 Groundwater Level

According to BGS, the groundwater is likely to be less than 3.0 metres below the ground surface for at least part of the year in the west, and between 3.0 and 5.0 metres below the ground surface throughout the year in the east of the site.

9.5 Hydrology

The nearest surface water feature is Millers Brook which is located approximately 20m NW of the site.

9.6 Flood Risk

9.6.1 River and Tidal (Fluvial and Tidal) Flooding

The risk of fluvial and tidal flooding is considered to be low. The site is located within Flood Zone 1, which is defined as land having less than 1 in 1,000 annual probability of river or sea flooding (<0.1%).

9.6.2 Surface Water (Pluvial) Flooding

The Environment Agency (EA) long term flooding maps indicate that the site is at Very Low risk of surface water flooding. Very Low risk means that each year this area has a chance of flooding of less than 0.1%.

9.6.3 Groundwater Flooding

The BGS groundwater flood maps indicate that the risk of groundwater flooding at the site is Moderate.

9.7 Environmentally Sensitive Sites and Ecological Protection Zones

No Ecological Protection Zones (e.g. Special Scientific Interest (SSSI), Ramsar Sites, Special Areas of Conservation (SAC)) were identified on or within 250m of the proposed development.

The following Environmentally Sensitive Sites (e.g. Green Belt Land, Ancient Woodlands) were identified within 250m of the site:

Table 4: Environmentally Sensitive Sites identified within 250m of the site

Type	Direction	Distance
Green Belt (Merseyside and Greater Manchester)	E	219m

9.8 Conservation Areas, Designated Protected Buildings and Monuments

No Conservation Areas, Listed Buildings or Scheduled Ancient Monuments were identified on or within 50m of the proposed development.

9.9 Topography

According to [Google Earth](#), the general site level is at 108mAOD.

9.10 Waste Disposal Activities & Landfill Sites

The following Historical Landfills and Waste Sites were identified within 250m of the site:

Table 5: Historical Landfills and Waste Sites identified within 250m of the site

Site Address	Source	Waste Type/Type of Site	Dates	Distance/Direction
N/A	LA Historic Mapping	Scrap Yard	1989-1999	100m S
Refuse Tip	LA Mapping Records	-	1967	115m SW

Mutual Street, Heywood	EA Records	Inert	31/12/1882 – 31/12/1986	217m E
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9.11 Petrol and Fuel Sites

No Petrol or Fuel Sites were identified on or within 250m of the site.

9.12 Sites Determined as Contaminated Land under Part 2A EPA 1990

No Sites Determined as Contaminated Land were identified on or within 500m of the site.

9.13 Dangerous or Hazardous Sites

No Control of Major Accident Hazards (COMAH) or Notification of Installations Handling Hazardous Substances (NIHHS) Sites were identified on or within 500m of the site.

9.14 Hazardous Substance Storage/Usage

No consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015 were identified on or within 500m of the site.

9.15 IPC Authorisations

No Integrated Pollution Control (IPC) Authorisations were identified on or within 500m of the site.

9.16 Part A(1) and IPPC Authorised Activities

No Part A(1) or Integrated Pollution Prevention Control (IPPC) Authorised Activities were identified on or within 500m of the site.

9.17 Part A(2) and Part B Activities and Enforcements

No Part A(2) and Part B Activities and Enforcements were identified on or within 250m of the site.

9.18 Category 3 or 4 Radioactive Substance Authorisations

No Category 3 or 4 Radioactive Substance Authorisations were identified on or within 500m of the site.

9.19 Discharge Consents

No Red List Discharge Consents were identified on or within 500m of the site.

The following Licensed Discharge Consents were identified within 250m of the site:

Table 6: Licensed Discharge Consents identified within 250m of the site

Site Address	Effluent Type	Receiving Water	Effective Date-Revocation Date	Distance/Direction
John Street CSO 35020, 31 John Street, Heywood, Greater Manchester,	Sewage Discharges – Sewer Storm Overflow – Water	Millers Brook	20/01/2006 – 03/06/2018	16m NW

Site Address	Effluent Type	Receiving Water	Effective Date-Revocation Date	Distance/Direction
OL10 4LL	Company			
John Street CSO 35020, 31 John Street, Heywood, Greater Manchester, OL10 4LL	Sewage Discharges – Sewer Storm Overflow – Water Company	Millers Brook	01/01/1995 – 19/01/2006	110m SW
John Street CSO 35020, 31 John Street, Heywood, Greater Manchester, OL10 4LL 4LL	Sewage Discharges – Sewer Storm Overflow – Water Company	Millers Brook	04/06/2018 – N/A	111m SW
Heywood SSO, John Street/Willow Street, Heywood, Greater Manchester	Sewage Discharges – Sewer Storm Overflow – Water Company	Millers Brook	31/07/1981 – N/A	113m SW

9.20 List 1 and List 2 Dangerous Substance Inventory Sites

No List 1 and List 2 Dangerous Substances Inventory Sites were identified on or within 500m of the site.

9.21 Pollution Incidents

No Pollution Incidents occurred on or within 50m of the site.

9.22 Coal Mining

The site is located in an area potentially affected by Coal Mining. It is recommended that a Coal Mining Risk Assessment is undertaken at the site as this is outside the scope of this assessment.

9.23 Non-Coal Mining

No Non-Coal Mining Areas were identified on or within 50m of the site.

9.24 Radon

A search of the BGS Radon dataset indicates that the property lies in an area with less than 1% chance of being affected by naturally occurring Radon gas. Therefore, it is unlikely to be affected by Radon.

9.25 Asbestos within Buildings

The information available indicates that the building on the site were developed prior to 2010. It is therefore considered possible that Asbestos may exist within them and that an Asbestos survey may be required in line with The Control of Asbestos Regulations 2012. This is outside the scope of this assessment. An Asbestos survey is recommended.

10 RELEVANT PLANNING HISTORY

Rochdale Metropolitan Borough Council's online planning portal was searched in an effort to identify any relevant planning applications. No relevant documents were identified onsite.

10.1 Planning Applications for Adjacent Sites

Table 7 below provides a summary of the previously submitted planning applications identified for nearby sites within 200m. Although other planning applications were identified on adjacent sites; they were not deemed relevant to this report.

Table 7: Summary of planning applications for adjacent sites

Application Reference	Date	Description of Proposal	Status
91/D26716	1991	Residential Development-Three Terraced Dwellinghouses. (Land At Starkey Street Heywood – 117m SW)	Granted (without a Contaminated Land Condition)
96/D33591	1996	Use Of Premises To Provide 4 Self-Contained Flats Including Alterations To Elevations (133 Starkey Street Heywood – 66m SE)	Granted (without a Contaminated Land Condition)
03/D42363	2003	Demolition Of Part Of Existing Mill Buildings, Erection Of Single And Two Storey Extensions, And Formation Of Replacement Car Parking Area To Rear Of 22-26 Clarke Street. (Millersbrook Mill, Miller Street, Heywood – 164m S)	Granted (without a Contaminated Land Condition)
04/D43503	2004	Erection Of Two Storey Building Comprising 2 Self Contained Apartments (Land Adjacent 96 Shadwell Street East, Heywood, Lancashire – 118m NE)	Granted (with a Gas Protection Measures Condition)
08/D50976	2008	Erection Of 3 Dwellings (Land At Junction Of Miller Street And James Street, Heywood – 102m S)	Granted (with a Contaminated Land Condition)*
12/D55441	2012	Erection Of Three, Three-Bedroom Dwellings (Re-Submission Of D55150) (Land At The Junction Of Miller Street And James Street, Heywood – 102m S)	Granted (with a Contaminated Land Condition)*
18/01318/FUL	2019	Construction of a single storey extension to provide 4no. additional classrooms and a studio space, office, one-to-one rooms and ancillary facilities; extension to the existing car park; and construction of a new Multi-Use Games Area (MUGA) (St Lukes C Of E Primary School Queens Park Road Heywood OL10 4XB – 95m NW)	Granted (with a Contaminated Land Condition)**

*No Contaminated Land Reports were identified on the online planning portal at the time of the search.

**Whilst a Contaminated Land Report was identified associated with this planning application, it could not be viewed at the time of writing.

11 SITE WALKOVER

A site walkover was not undertaken as part of the initial scope of works. Photographs of the site, which have been provided by the Client, are presented in [Appendix 6](#).

12 PRELIMINARY CONCEPTUAL SITE RISK MODEL (CSM)

A conceptual site risk model (CSM) aims to summarise all the potential pollutant linkages or risk that may be associated with a site. It considers the potential pollution sources, receptors and pathways by which receptors can be impacted.

12.1 Potential Sources

Potentially contaminative land uses (PCLUs) of concern were identified based on their proximity to the site and whether they had the potential to generate significant quantities of ground gases, vapours and/or mobile volatile contamination (i.e. high pollution migration potential).

Any PCLUs within a 50m radius of the site as well as any PCLUs with high pollution migration potential within 250m of the site were considered to be of concern and were included within the assessment.

In addition, the potential for Made Ground to be present was considered to be a possibility.

A summary is provided in Table 8 below.

Table 8: Summary of potential contamination sources, period of operation and distance from site.

Site Name/ Description	Industrial Profile	Approx. Year Use Established	Approx. Year Use Ended	Direction	Approx. Distance from Site (m)
Pennine Lower Coal Measures	-	-	Current (2023)	Onsite	0
Small Domestic Garage	Road Vehicles: Garages and Filling Stations	Unknown	Current (2023)	Onsite	0
Unknown Ground Workings/ Refuse Heap	Waste: Landfills and Other Waste Treatment & Disposal Sites	c.1908-09	Current (2023)	Onsite	0
Allotment Gardens	-	c.1955-56	c.1973-75	W	25
Infilled Marl Pit	Unknown Filled Ground	c.1890	Current (2023)	SE	85
Infilled Reservoirs	Unknown Filled Ground	c.1937	Current (2023)	SW	90
		c.1955-56		S	130
		c.1910		SE	135
		c.1955-56		SW	240
Refuse Tip	Waste: Landfills and Other Waste Treatment & Disposal Sites	c.1965-68	c.1981-85	SW	115
Mutual Street Historical Landfill	Waste: Landfills and Other Waste Treatment & Disposal Sites	c.1882	c.1986	E	217

Typical contaminants that may be associated with the above PCLUs are:

- Acids & Alkalis
- Asbestos
- Chlorinated & Non-Chlorinated Solvents
- Fuels & Fuel Oils
- Heavy Metals
- Landfill Gases: Methane & Carbon Dioxide
- Organic & Inorganic Compounds
- Pesticides
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Total Petroleum Hydrocarbons (TPHs)
- Volatile Organic Compounds (VOCs)

Please note, this list is not exhaustive of all contaminants that may be present on or off site.

12.2 Potential Receptors

The potential receptors include human, water, ecological and infrastructure receptors.

12.2.1 Potential Human Health receptors

Potential human health receptors include construction workers, future occupants or users of the site and the proposed development and neighbours of the site.

12.2.2 Potential Groundwater Receptors

Potential groundwater receptors include the Secondary A Superficial and Bedrock Aquifers.

12.2.3 Potential Surface Water Receptors

Potential surface water receptors include Millers Brook located 20m NW.

12.2.4 Potential Ecological Receptors

There are no potential ecological receptors in the vicinity of the site.

12.2.5 Potential Property Receptors

Potential property receptors include the proposed development as well as neighbouring properties and associated services.

12.3 Potential Pathways

12.3.1 Potential Pathways for Human Receptors

The main pathways via which on and off-site human receptors are likely to come into contact with, or be affected by any contamination present on the site can be summarised as follows:

- Dermal contact with contaminated soil (i.e. absorption through the skin) – through garden activities such as children playing, gardening etc.
- Ingestion of contaminated soil (either directly or via soil adhering to vegetables grown on the site)
- Inhalation of contaminated soil, fugitive dust and vapours.
- Explosion of landfill gases leading to death/injury

12.3.2 Potential Pathways for Groundwater Receptors

The principal means by which contaminants can reach the groundwater is by leaching (i.e. downward movement through the soil pores with percolating and infiltrating water).

12.3.3 Potential Pathways for Surface Water Receptors

Routes by which contaminants from the site could reach surface water include via overland run-off, drainage and groundwater entering nearby rivers as base flow.

12.3.4 Potential Pathways for Ecological Receptors

The exposure pathways for terrestrial ecological receptors will be similar to those for humans. Pathways for aquatic receptors are via uptake of contaminated sediments and water.

12.3.5 Potential Pathways for Property Receptors

Pathways by which property receptors are exposed to potential contaminants include ground gas and vapour migration through the unsaturated zone and absorption of water containing dissolved contaminants (i.e. as in the case of sulphate attack).

12.4 Potential Pollutant Linkages

The Potential Pollutant Linkages (PPLs) were identified as part of the CSM. These were concerned with the following:

- Risk of direct contact (ingestion and absorption) with and inhalation of contaminants to on-site human health receptors including future occupiers and site visitors (PPL1a)
- Risk of injury/death to future occupiers and visitors as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within on-site dwellings/buildings. (PPL1b)
- Risk of direct contact (ingestion and absorption) with and inhalation of contaminants to on-site human health receptors such as Construction Workers (PPL1c)
- Risk of injury/death to construction workers as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within on-site dwellings/buildings. (PPL1d)
- Risk of direct contact with (ingestion and absorption) and inhalation of contaminants to off-site human health receptors as a result of on-site contaminants migrating off-site (PPL2a)
- Risk of injury/death to off-site human health receptors as a result of explosion due to migration of on-site ground gas and subsequent accumulation in confined spaces in off-site buildings. (PPL2b)
- Risk of deterioration of groundwater quality resulting from the migration of on-site contaminants into the underlying aquifer (PPL3)
- Risk of deterioration of surface water quality resulting from the migration and entry of on-site contaminants into the surface water receptor (PPL4)
- Risk of deterioration of ecological quality resulting from the migration and entry of on-site contaminants to the ecological receptor during development and after completion (PPL5);
- Risk of damage to buildings and services from on and off-site contaminants (PPL6a)
- Risk of damage to property as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within buildings (PPL6b).

13 QUALITATIVE RISK ASSESSMENT

For land to be considered ‘contaminated land’ under Part IIA, the potential contamination source must be causing or have the significant possibility of causing harm to designated receptors. It is therefore necessary to focus on pollutant linkages that have the potential to be significant (i.e. those that are most likely to lead to a determination).

The identified PPLs were therefore individually qualitatively assessed using a basic risk assessment methodology which considers “Likelihood” and “Severity” to assess the magnitude of the potential risk. The methodology is summarised in [Appendix 5](#).

Table 9 below summarises the conceptual site risk model (CSM) including the identified PPLs and the results of the qualitative risk assessment.

Table 9: Conceptual Site Risk Model - Potential Sources, Pathways and Receptors identified on the site.

Source/ Potential Contaminants	Potential Contaminants Associated with Coal Measures and Site Use as a Small Domestic Garage, Unknown Ground Workings/Refuse Heap and Offsite Land Uses as Allotment Gardens, Infilled Marl Pit, Refuse Tip, Infilled Reservoirs and a Historical Landfill: i.e. Acids & Alkalis, Asbestos, Chlorinated & Non-Chlorinated Solvents, Fuels & Fuel Oils, Heavy Metals, Landfill Gases: Methane & Carbon Dioxide, Organic & Inorganic Compounds, Pesticides, PAHs, TPHs, VOCs										
	On and Off-Site Contaminants				On Site Contaminants		On Site Contaminants			On and Off-Site Contaminants	
Potential Pathways	• Ingestion of soils, garden vegetables and dust • Ingestion of contaminated drinking water • Dermal absorption • Inhalation of dusts and vapours indoors and outdoors • Migration of ground gases and vapours into properties					Leaching in the unsaturated zone & diffusion in the saturated zone		• Overland run-off • Drainage channels • Base flow	• Direct contact via absorption and ingestion; • Inhalation	• Migration of ground gases and vapours through the unsaturated zone • Attack on water supply service pipes	
Potential Receptors	ON SITE HUMANS (AFTER COMPLETION) Future Occupiers & Visitors		ON SITE HUMANS (DURING DEVELOPMENT) Construction Workers		OFF SITE HUMANS Neighbours		GROUND WATER Secondary A Aquifers	SURFACE WATER Millers Brook 20m NW	ECOLOGICAL None	ON SITE PROPERTY Buildings and Services	
Potential Hazards	• Adverse health effects • Injury/ • Death	Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces	• Adverse health effects • Injury/ • Death	Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces	• Adverse health effects • Injury/ • Death	Explosion/ Methane build-up in confined spaces	Deterioration of groundwater quality	• Deterioration of surface water quality • Ecological impacts	Deterioration of ecological receptor quality	Damage to property and services	Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces
Plausible?	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
PPL ID	PPL1a	PPL1b	PPL1c	PPL1d	PPL2a	PPL2b	PPL3	PPL4	PPL5	PPL6a	PPL6b
SEVERITY	Major (4)	Major (4)	Major (4)	Major (4)	Major (4)	Major (4)	Moderate (3)	Moderate (3)	Moderate (3)	Moderate (3)	Moderate (3)
LIKELIHOOD	Possible (3)	Possible (3)	Improbable (1)	Improbable (1)	Improbable (1)	Improbable (1)	Improbable (1)	Improbable (1)	Improbable (1)	Possible (3)	Possible (3)
UPDATED RISK	Moderate (12)	Moderate (12)	Low (4)	Low (4)	Low (4)	Low (4)	Very Low (3)	Very Low (3)	Very Low (3)	Low to Moderate (9)	Low to Moderate (9)
POTENTIALLY SIGNIFICANT?	YES	YES	NO	NO	NO	NO	NO	NO	NO	YES	YES

13.1 Assessment of Potential Significance of Potential Pollutant Linkages

13.1.1 Potential Risks to On-Site Human Health Receptors

PPL1a is concerned with the risk of direct contact (ingestion and dermal absorption) with and inhalation of on and off-site contaminants by on site human health receptors. PPL1a is considered to have the potential to be significant as potentially contaminative land uses, listed above in Table 8, were identified on and within 240m of the site.

As the proposal is to introduce residential dwellings with associated soft landscaping, it is possible that human health receptors (i.e. future occupiers of the dwellings) could be exposed to any potential contamination via direct contact and ground gases and vapours via indoor inhalation during groundworks and after completion.

PPL1c is concerned with the risk of direct contact (ingestion and dermal absorption) with and inhalation of on and off-site contaminants by construction workers. PPL1c is considered unlikely to have the potential to be significant. Although potentially contaminative land uses were identified on and within 240m of the site, it is considered that any potential risks can be satisfactorily reduced so long as Construction Workers implement standard health and safety measures as described in [Sections 15.3](#).

PPL1b is concerned with the risk of injury/death of future occupiers and site visitors as a result of explosion due to the potential accumulation of ground gases and vapours from on and off-site sources. PPL1b is considered to have the potential to be significant as potential sources of explosive ground gases and/or vapours (i.e. Coal Measures, Unknown Ground Workings/Refuse Heap, Infilled Marl Pit, Refuse Tip, Infilled Reservoirs, Historical Landfill) were identified on within 240m of the site.

PPL1d is concerned with the risk of injury/death of construction workers as a result of explosion due to the potential accumulation of ground gases and vapours from on and off-site sources. PPL1d is considered unlikely to have the potential to be significant for the same reasons as PPL1c.

13.1.2 Potential Risks to Off-Site Human Health Receptors

PPL2a is concerned with the risk of direct contact and inhalation of contaminants emanating from the site by off-site human health receptors. PPL2a is considered unlikely to have the potential to be significant. Although a potentially contaminative land use (i.e. Small Domestic Garage) was identified on the site, it is considered unlikely that any potential contaminants present at the site would be of sufficient magnitude and mobility as to significantly impact off-site human receptors.

PPL2b is concerned with the risk of injury/death of off-site human health receptors as a result of explosion due to accumulation of ground gases from on-site sources. PPL2b is considered unlikely to have the potential to be significant. Whilst a potential source of explosive ground gases and/or vapours (i.e. Coal Measures) was identified on the site, these are also present in the surrounding area, therefore the risk to off-site human health receptors is considered to be low.

13.1.3 Potential Risks to Groundwater Receptors

PPL3 is concerned with the risk of deterioration of groundwater quality resulting from the migration of on-site contaminants into the underlying aquifer. PPL3 is considered unlikely to have the potential to be significant. Although the site is underlain by Secondary A Aquifers, it is considered unlikely that any potential contaminants present at the site would be of

sufficient magnitude and mobility as to significantly impact groundwater receptors. Additionally, no Source Protection Zones were identified.

13.1.4 Potential Risks to Surface Water Receptors

PPL4 is concerned with the risk of deterioration of surface water quality resulting from the migration and entry of on-site contaminants into surface water receptors. PPL4 is considered unlikely to have the potential to be significant. The nearest surface water body is Millers Brook located 20m NW from the site. It is considered unlikely that any potential contaminants present at the site would be of sufficient magnitude and mobility as to significantly impact this surface water receptor.

13.1.5 Potential Risks to Ecological Receptors

PPL5 is concerned with the risk of deterioration of ecological receptors resulting from potential on-site contaminants. PPL5 is considered unlikely to have the potential to be significant as no designated ecological receptors were identified on or within 250m of the site.

13.1.6 Potential Risks to Property Receptors

PPL6a is concerned with the risk of damage to on site buildings and services from on and off-site contaminants. If contaminated, the soil may contain aggressive chemicals (i.e. Sulphates, VOCs) that can attack building materials and services. PPL6a is considered to have the potential to be significant for the same reasons as PPL1a.

PPL6b is concerned with the risk of damage to property as a result of explosion due to migration of on and off-site ground gases and vapours and their subsequent accumulation in confined spaces in on-site buildings. PPL6b is considered to have the potential to be significant for the same reasons as PPL1b.

14 CONCLUSIONS

This Phase 1 Desk Study was carried out to support a planning application for the erection of 3no. residential dwellings.

A review of historical maps and planning records suggests that the site and surrounding land have been subject to previous potentially contaminative land uses (PCLUs). On site PCLUs have included a Small Domestic Garage and Unknown Ground Workings/Refuse Heap while off site PCLUs include Allotment Gardens (25m W), Infilled Marl Pit (85m SE), 4no. Infilled Reservoirs (90m SW, 130m S, 135m SE & 240m SW), Refuse Tip (115m SW) and Mutual Street Historical Landfill (217m E). Potential Coal Mine Gas was also identified as a further potential source of contamination.

A conceptual site risk model was developed and a qualitative risk assessment undertaken. The conclusions of the risk assessment are presented in Table 10 below.

Table 10: Summary of qualitative risk assessment

Potential Receptor	Potential Pathway	Potential Hazard	PSPPL?	Risk
On-Site Human Health (Future Occupiers)	Ingestion/Absorption Inhalation	Adverse health Injury/Death	Yes	Moderate
	Buildup of Methane/ VOCs in confined spaces	Explosion/ Fire Injury/Death	Yes	Moderate

Potential Receptor	Potential Pathway	Potential Hazard	PSPPL?	Risk
On-Site Human Health (Construction Workers)	Ingestion/Absorption Inhalation	Adverse health Injury/Death	No	Low
	Buildup of Methane/ VOCs in confined spaces	Explosion/ Fire Injury/Death	No	Low
Off-Site Human Health	Ingestion/Absorption Inhalation	Adverse health Injury/Death	No	Low
	Buildup of Methane/ VOCs in confined spaces	Explosion/ Fire Injury/Death	No	Low
Groundwater	Percolation/Leaching	Adverse groundwater quality	No	Very Low
Surface Water	Lateral Migration Groundwater baseflow	Adverse Surface water quality	No	Very Low
Ecology	Ingestion/Absorption	Adverse health Injury/Death	No	Very Low
Property	Physical Contact/Absorption	Damage to building and services	Yes	Low to Moderate
	Buildup of Methane/ VOCs in confined spaces	Explosion/ Fire Damage to building	Yes	Low to Moderate

15 RECOMMENDATIONS

15.1 Intrusive Site Investigation

Given that potentially significant potential pollutant linkages (PSPPLs) were identified, it is recommended that an intrusive site investigation is undertaken with the objective of determining the presence and extent of any soil and gaseous contamination at the site.

15.2 Watching Brief and Discovery Strategy

Therefore, it is recommended that a “watching brief” is kept at all times during the development. Should any unexpected contamination be encountered then the discovery strategy outlined below should be followed.

- Works should be halted if any suspicious ground conditions are identified by groundworkers;
- The Contractor should assess the need for any immediate health and safety or environmental management control measures. If control measures are considered to be required, they should be implemented;
- The Contractor should notify the Client’s Environmental Consultant and the Local Planning Authority;
- The Environmental Consultant should attend the site to record the extent of ‘contamination’ and if necessary, to collect samples;
- If remedial action is considered necessary then the proposed works should be agreed with the Local Planning Authority prior to implementation;
- Once remediation is complete, the Environmental Consultant should collate evidence of work carried out for inclusion in a Remediation Verification Report which should be submitted to the Local Planning Authority.

15.3 Health and Safety

All site works should be carried out in accordance with Health and Safety Executive regulations and guidelines, the Contractor's Construction Health and Safety Plan and the Construction (Design and Management) Regulations 2015.

Precautions should be taken to minimise exposure of site workers during ground works through the implementation of site safety. Such precautions should include, but not be limited to:

-  Provision of appropriate Personal Protective Equipment (PPE);
-  Availability of site welfare;
-  Good personal hygiene, washing and changing procedures;
-  Daily safety briefings.

15.4 Services

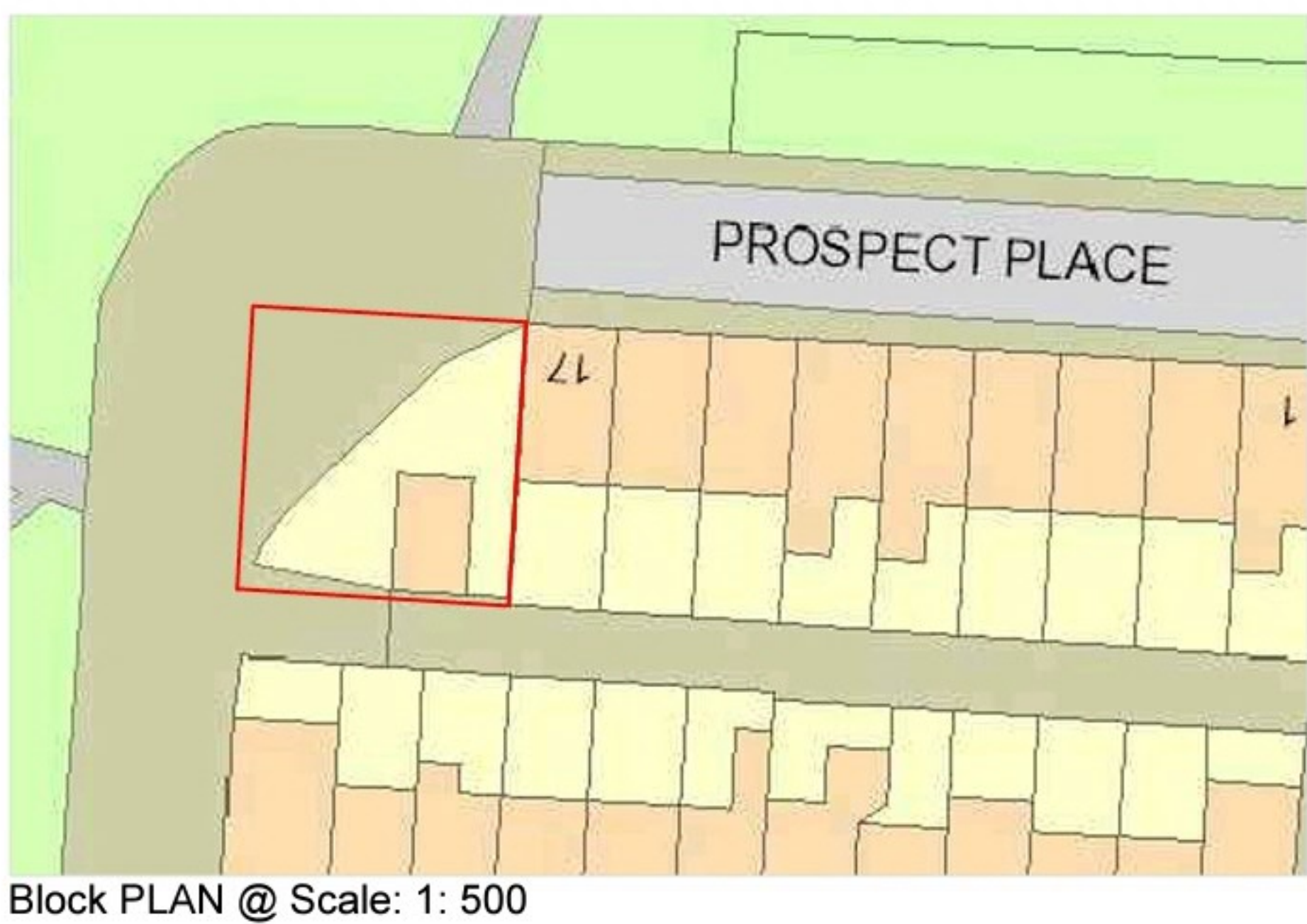
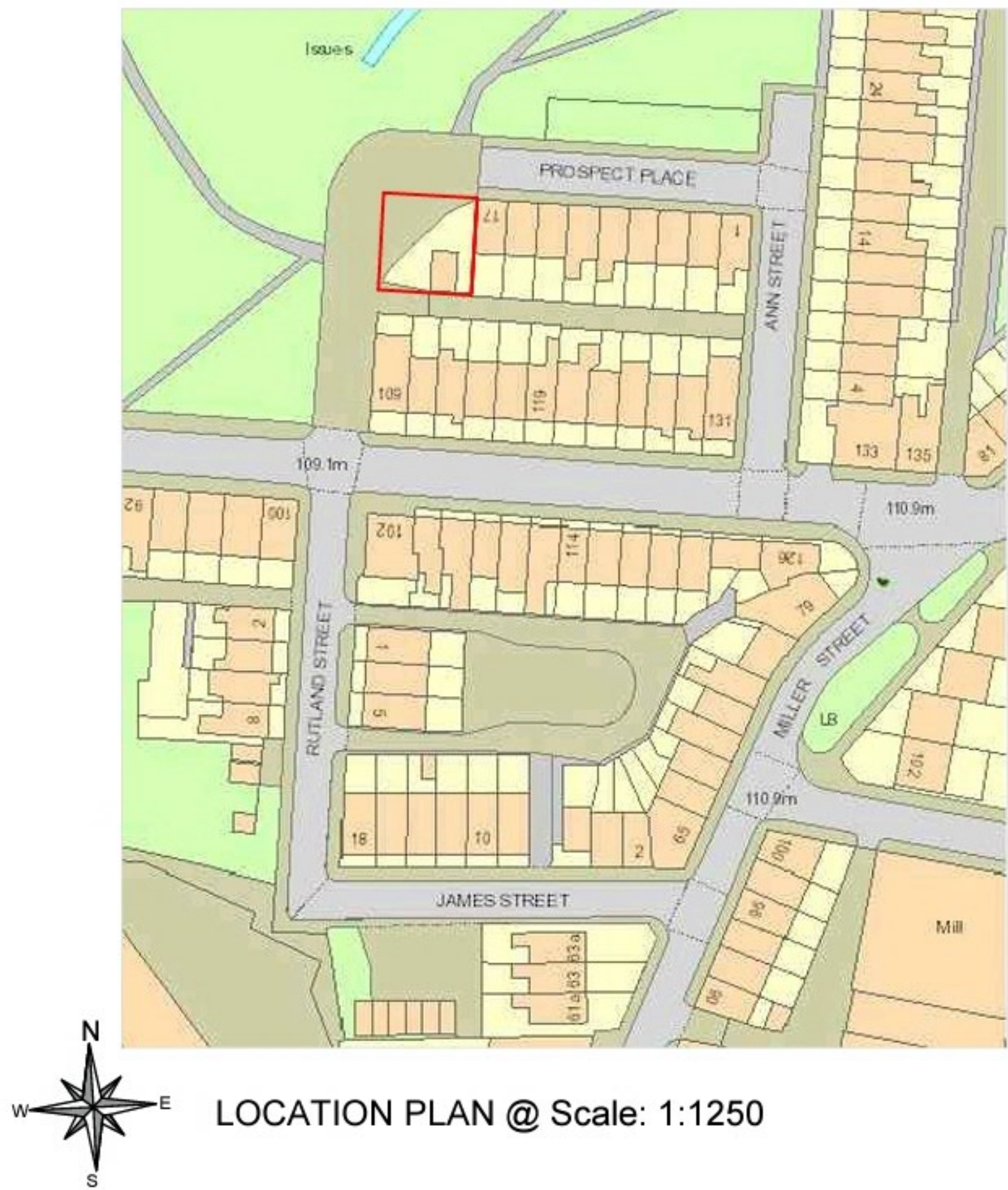
The local Statutory Water Undertaker should be contacted in the event that new services are proposed as part of the redevelopment in order to determine their specification for the type of pipework which should be used on this site.

Further information can be found within the published guidance for the '*Selection of Water Supply Pipes to be used in Brownfield Sites*', issued in January 2011 by the UK Water Industry Research.

16 INFORMATION GAPS AND UNCERTAINTIES

Assumptions have been made regarding the nature and scale of the activities that took place on the site and the types of potential contaminants that may have resulted. These assumptions will need to be reviewed along with the Conceptual Site Model should further information come to light.

17 APPENDIX 1 – PROPOSED DEVELOPMENT PLANS



Planning Services 2A Cook Street, Bury, Lancashire, BL9 0RP, 0161 8717405 email: ipsuk@live.co.uk	Location and Block Plans of Land next to 17 Prospect Place, Heywood OL10 4JQ		
	Scale : on A4	All Dimensions in Meters	
	Ref: IPS/R/Land/OL104JQ	Date : 03/12/2021	

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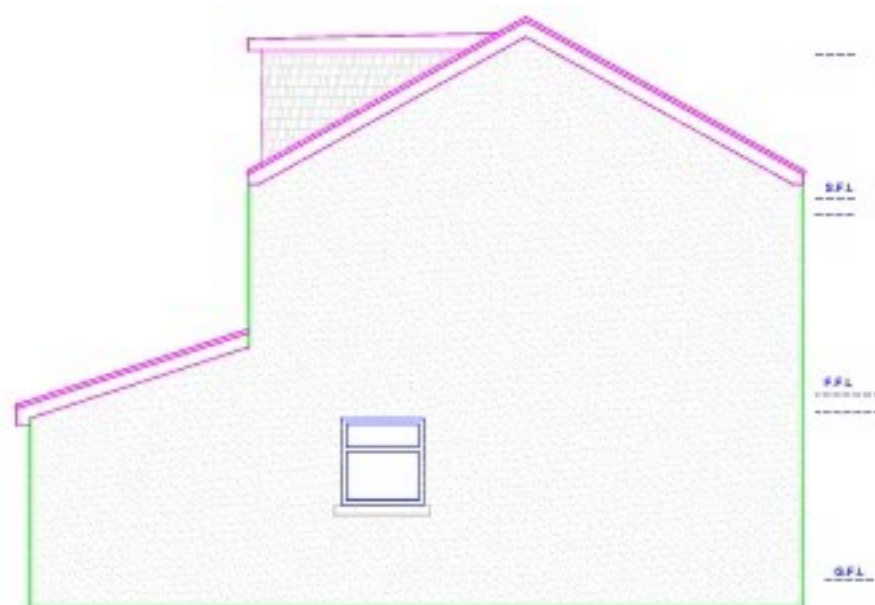
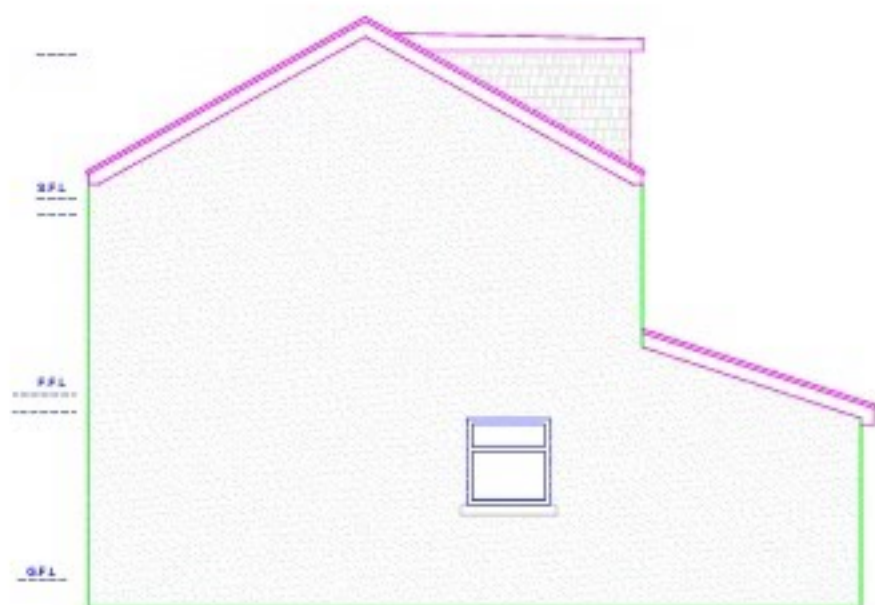
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Any discrepancies are to be reported to the architect for clarification.

All materials and workmanship to be accordance with the current British Standards and codes of practice.

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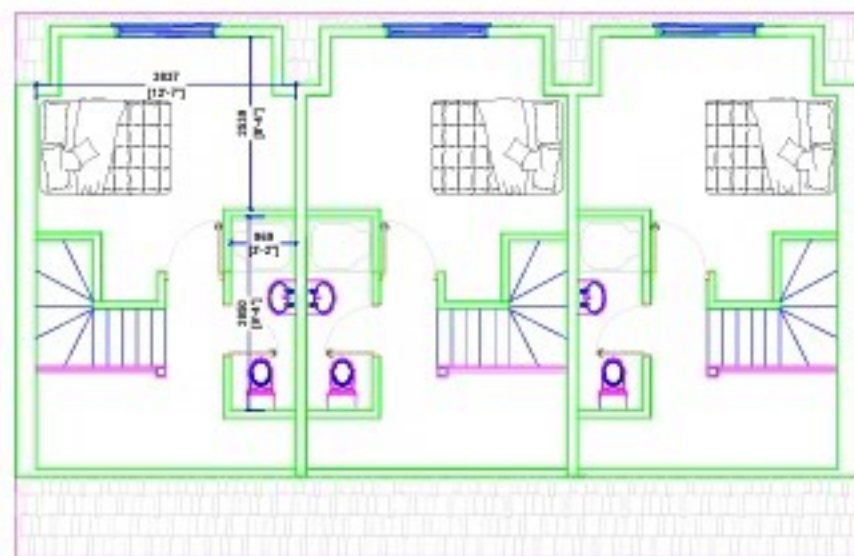


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Bury, Lancashire,
BL9 0RP,
email: ipsuk@live.co.uk 0161 8717405

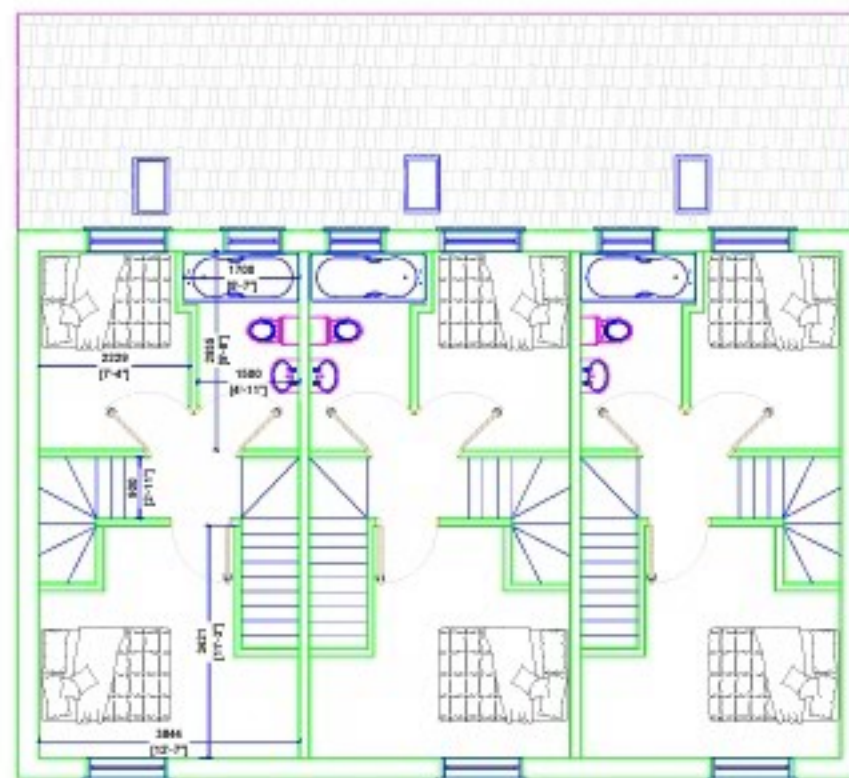
Proposed Elevations
of 597 Burnage Lane, Manchester, M19 1WB

Scale : 1 : 100 on A3	All Dimensions in Meters
Ref.: IPS/R/597/M191WB	Date : 16/05/2022

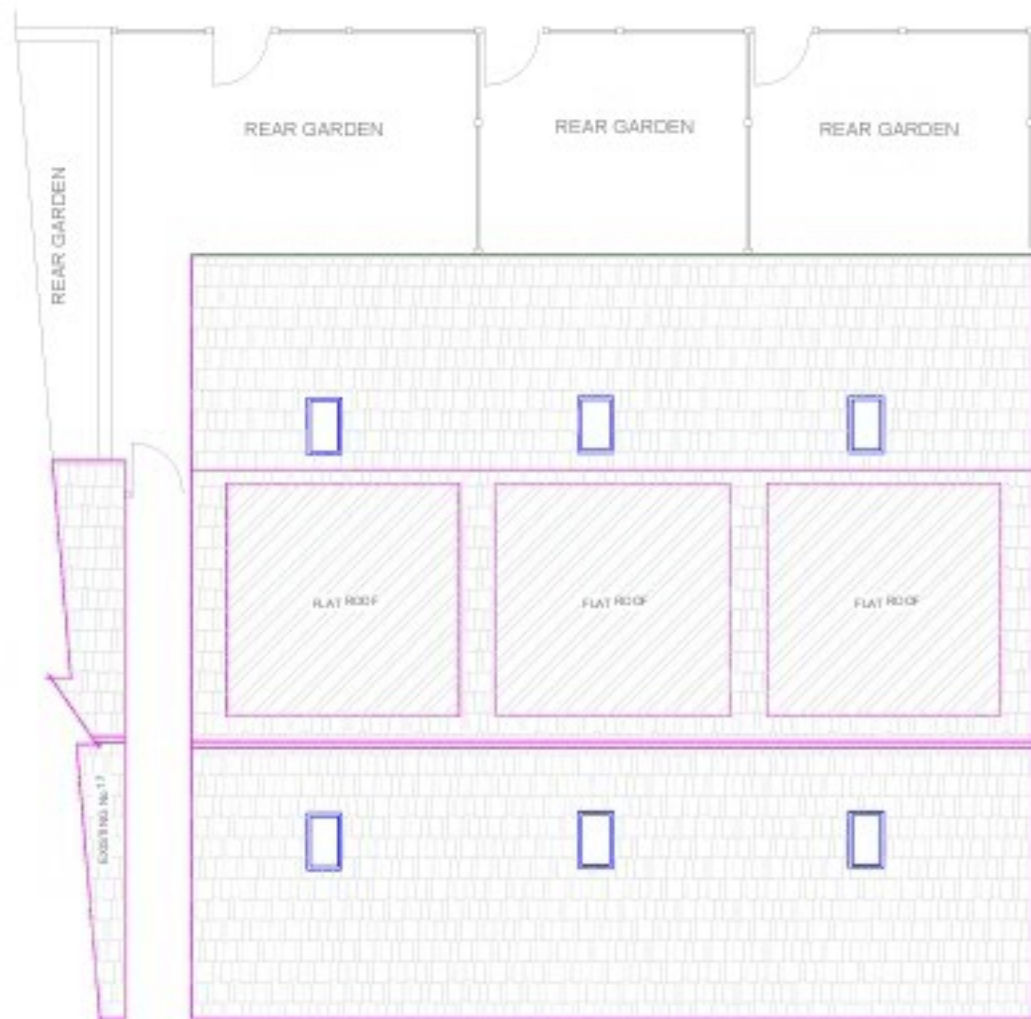
SHT 5 of 7	Proposal
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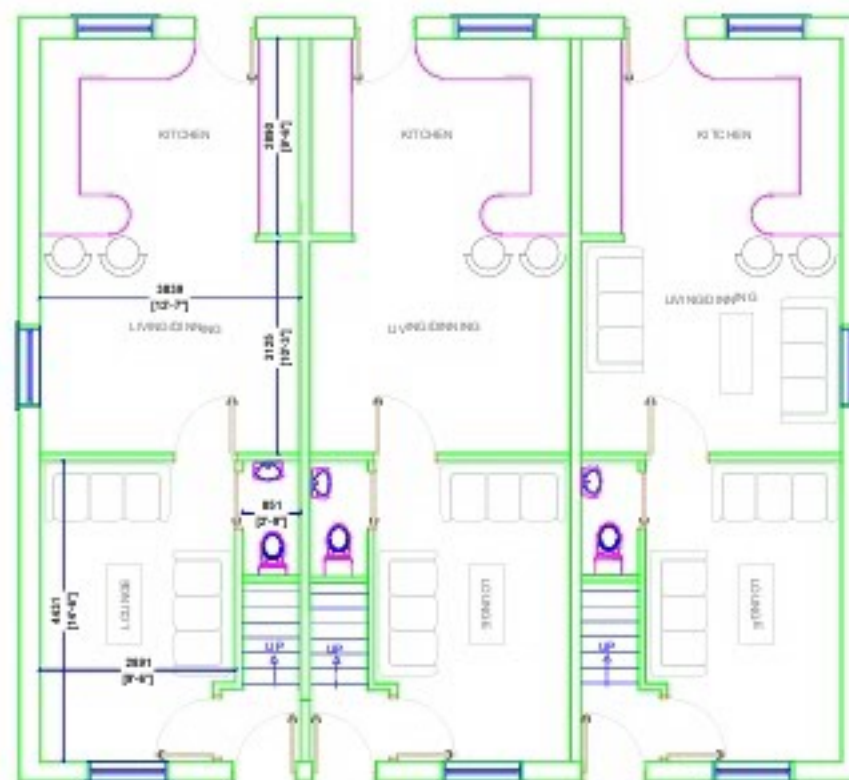
PROPOSED SECOND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN



PROPOSED SITE PLAN



PROPOSED GROUND FLOOR PLAN

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IPS Planning Services

email: ipsuk@live.co.uk

2A Cook Street,
Bury, Lancashire,
BL9 0RP,
0161 8717405

Proposed Floor plans

of Land next to 17 Prospect Place, Heywood OL10 4JQ

Scale : 1 : 100 on A3

All Dimensions in Meters

Ref: IPS/R/17/OL104JQ

Date : 16/05/2022

SHT 4 of 7

Proposal

0

5m

10m

18 APPENDIX 2 – HISTORICAL MAPS

Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

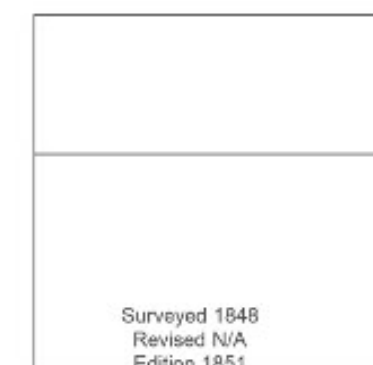
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: 1056 Scale Town Plan

Map date: 1851

Scale: 1:1,056

Printed at: 1:1,056



Surveyed 1848
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

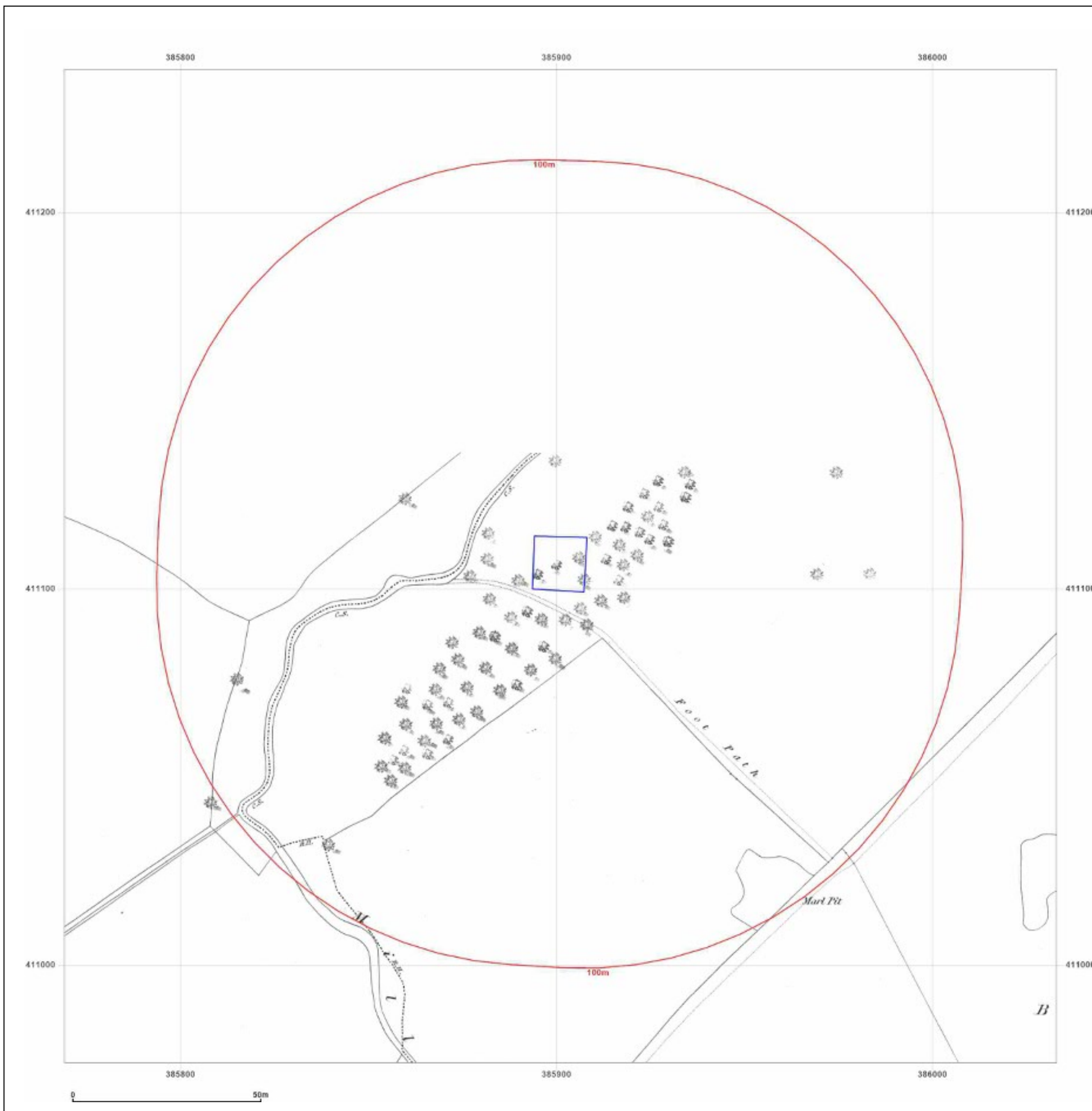


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Production date: 17 February 2023

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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1890

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1890
Edition N/A
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Surveyed 1890
Revised 1890
Edition N/A
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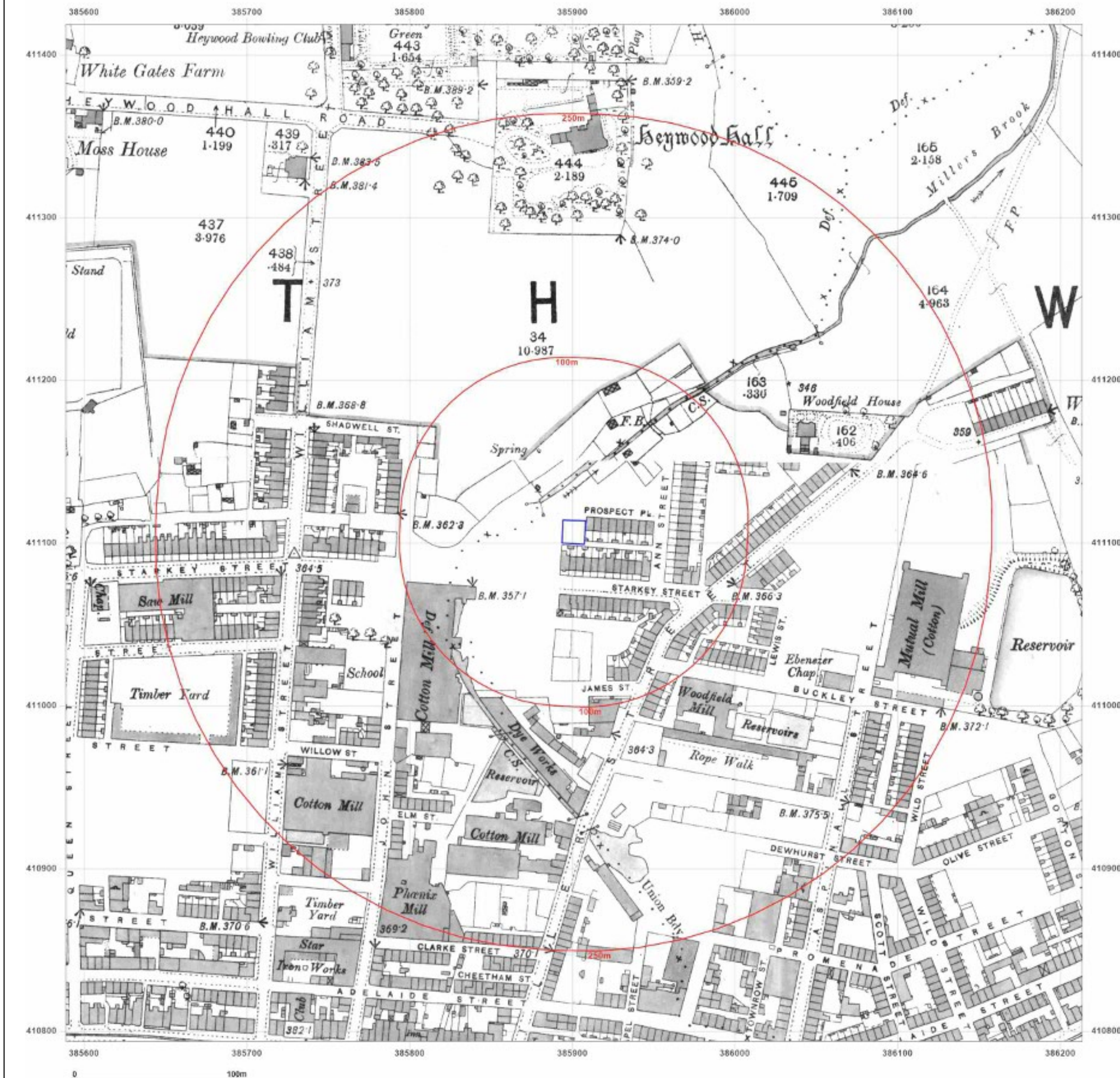


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
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Surveyed 1910
Revised 1910
Edition N/A
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Levelled N/A

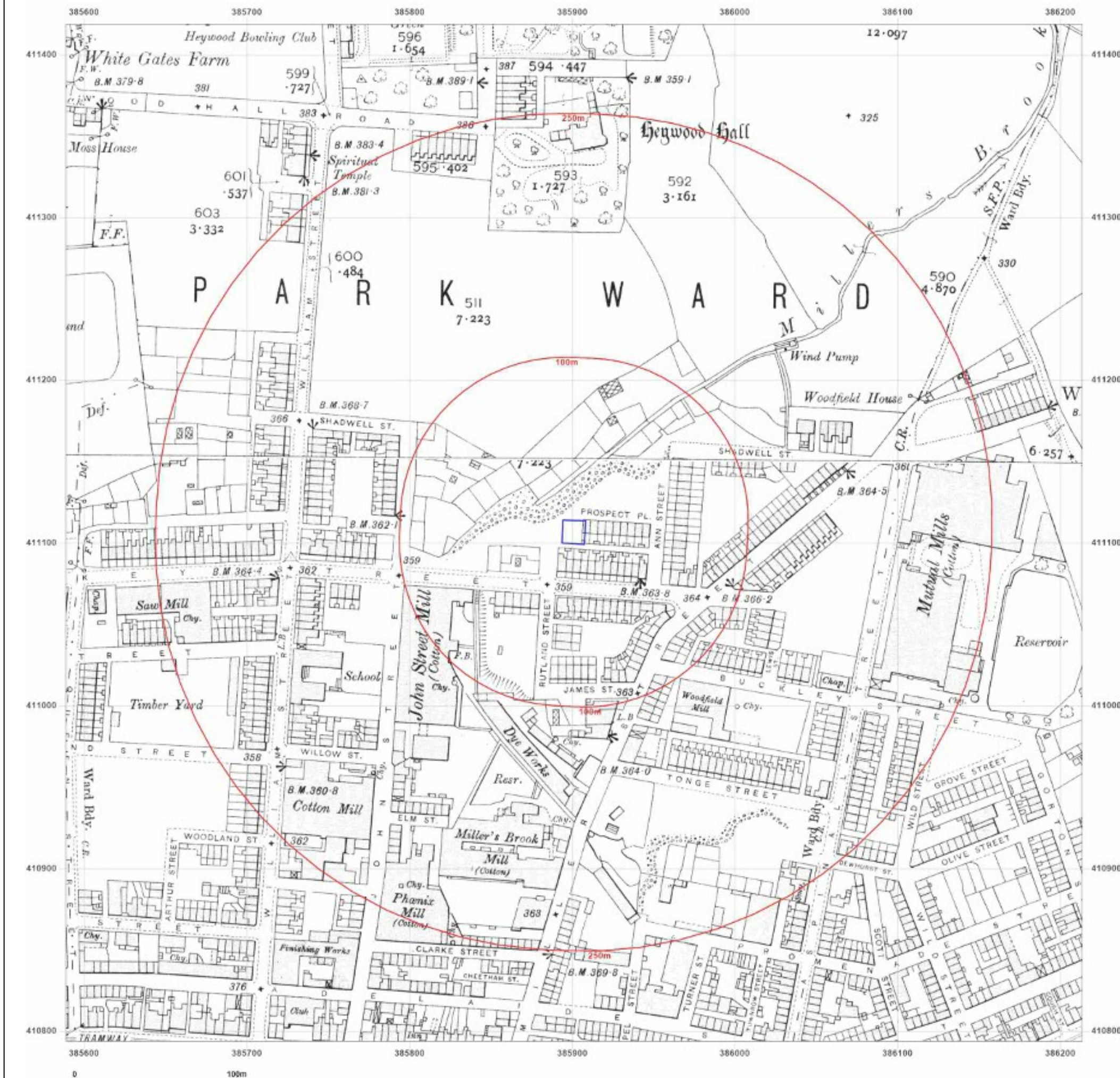


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1929-1930

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1930
Edition N/A
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Revised 1929
Edition N/A
Copyright N/A
Levelled N/A

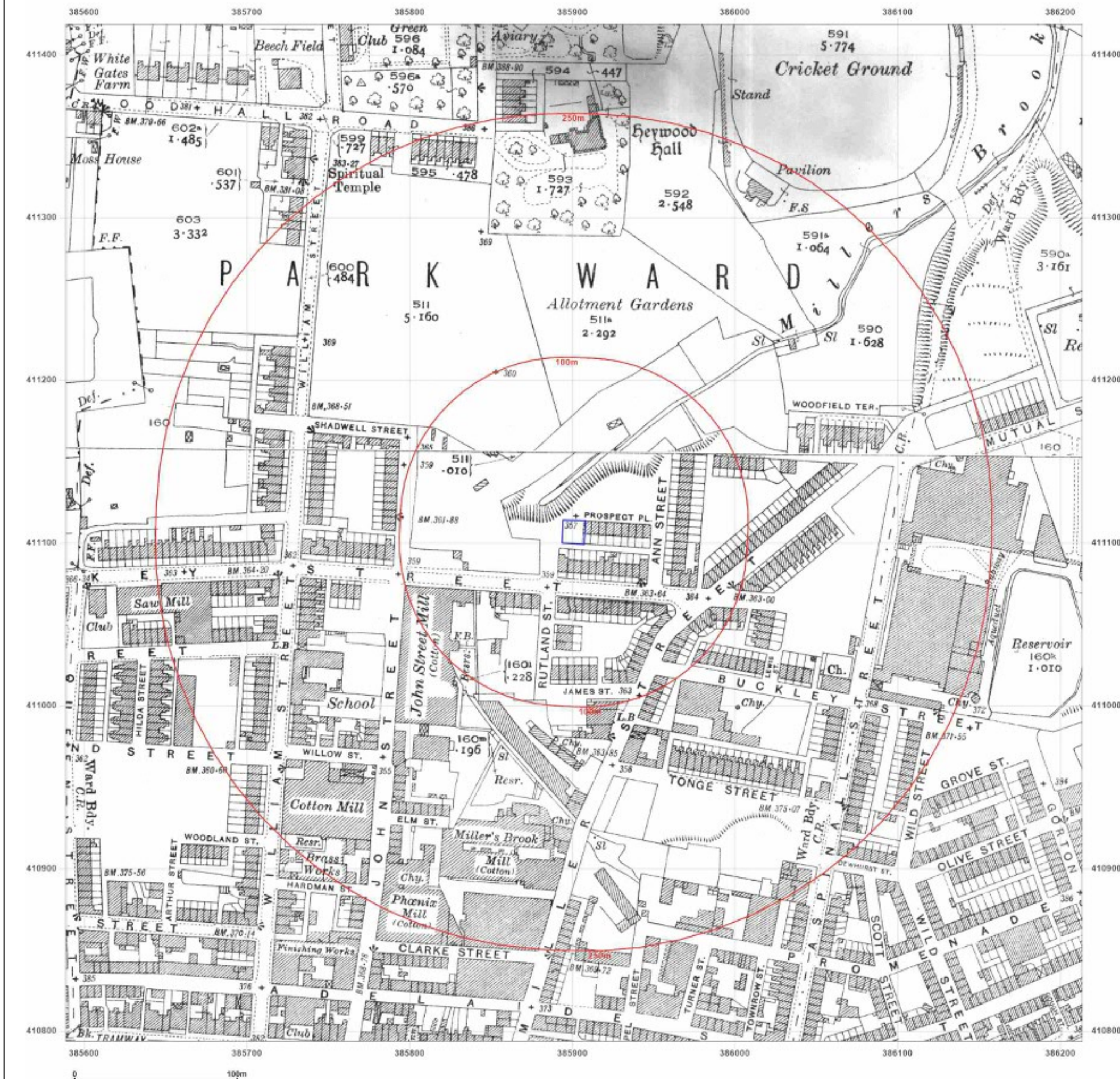


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

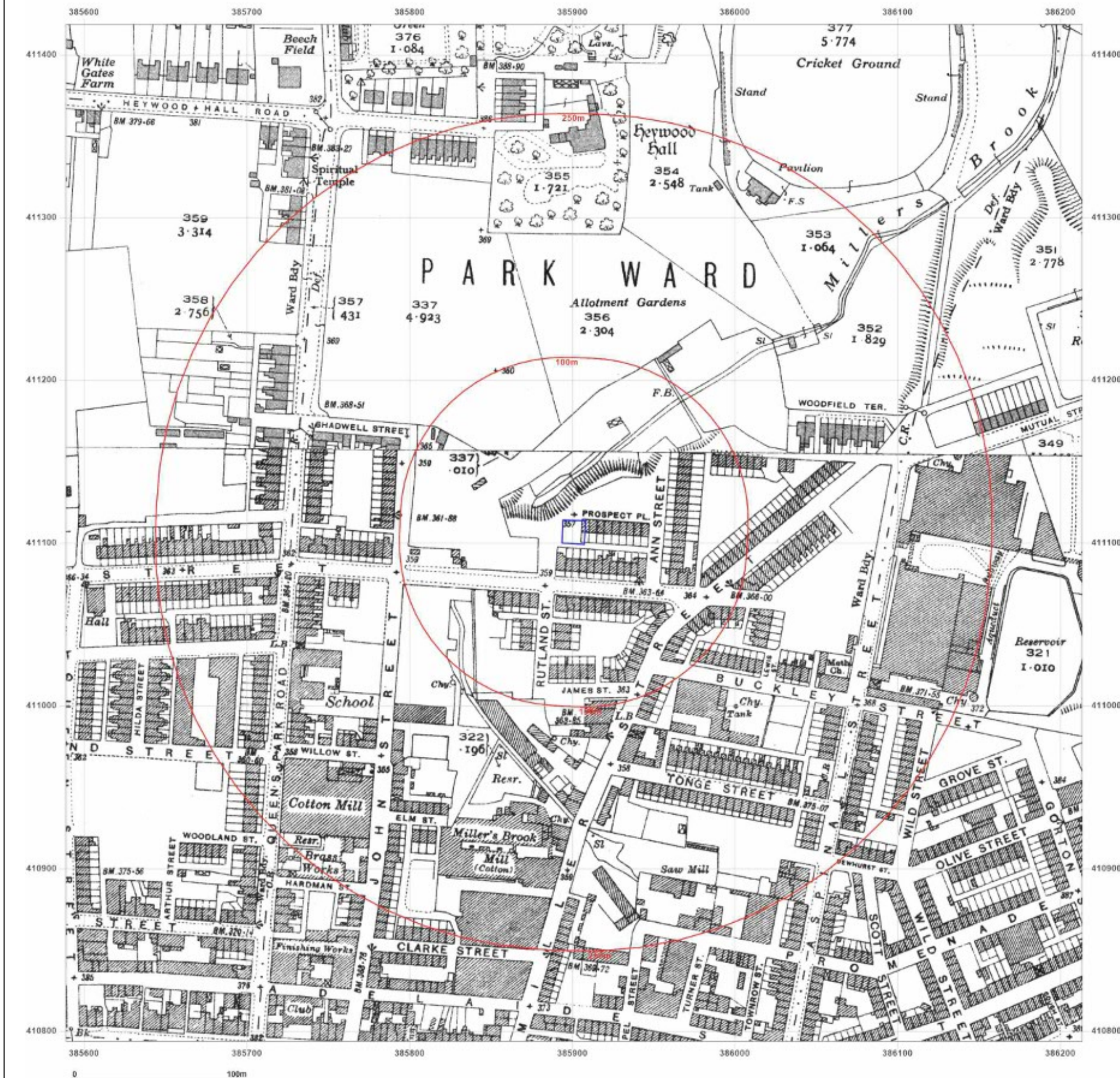


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1928

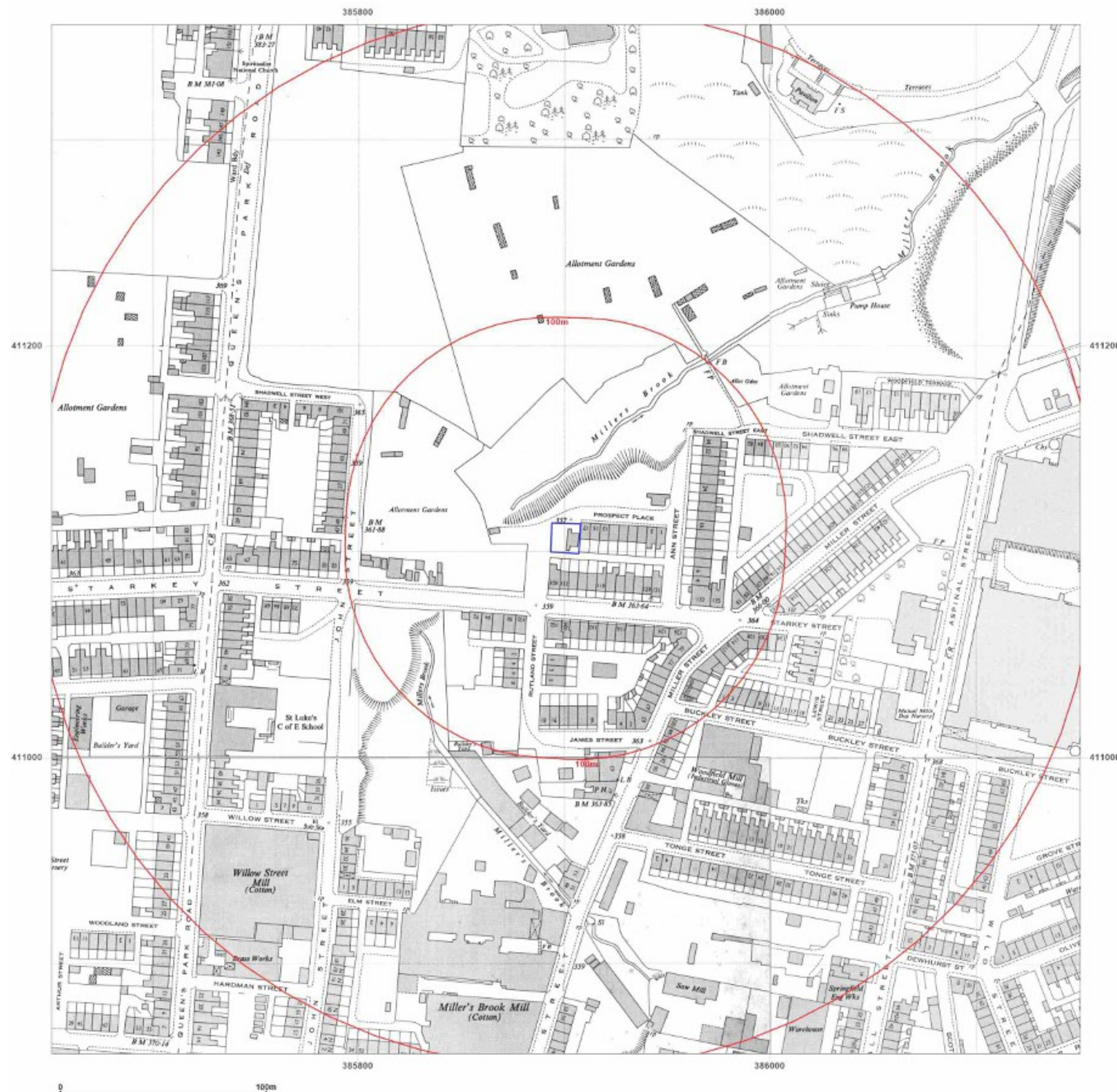


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1956
Revised N/A
Edition 1957
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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1957-1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition 1958
Copyright N/A
Levelled 1928

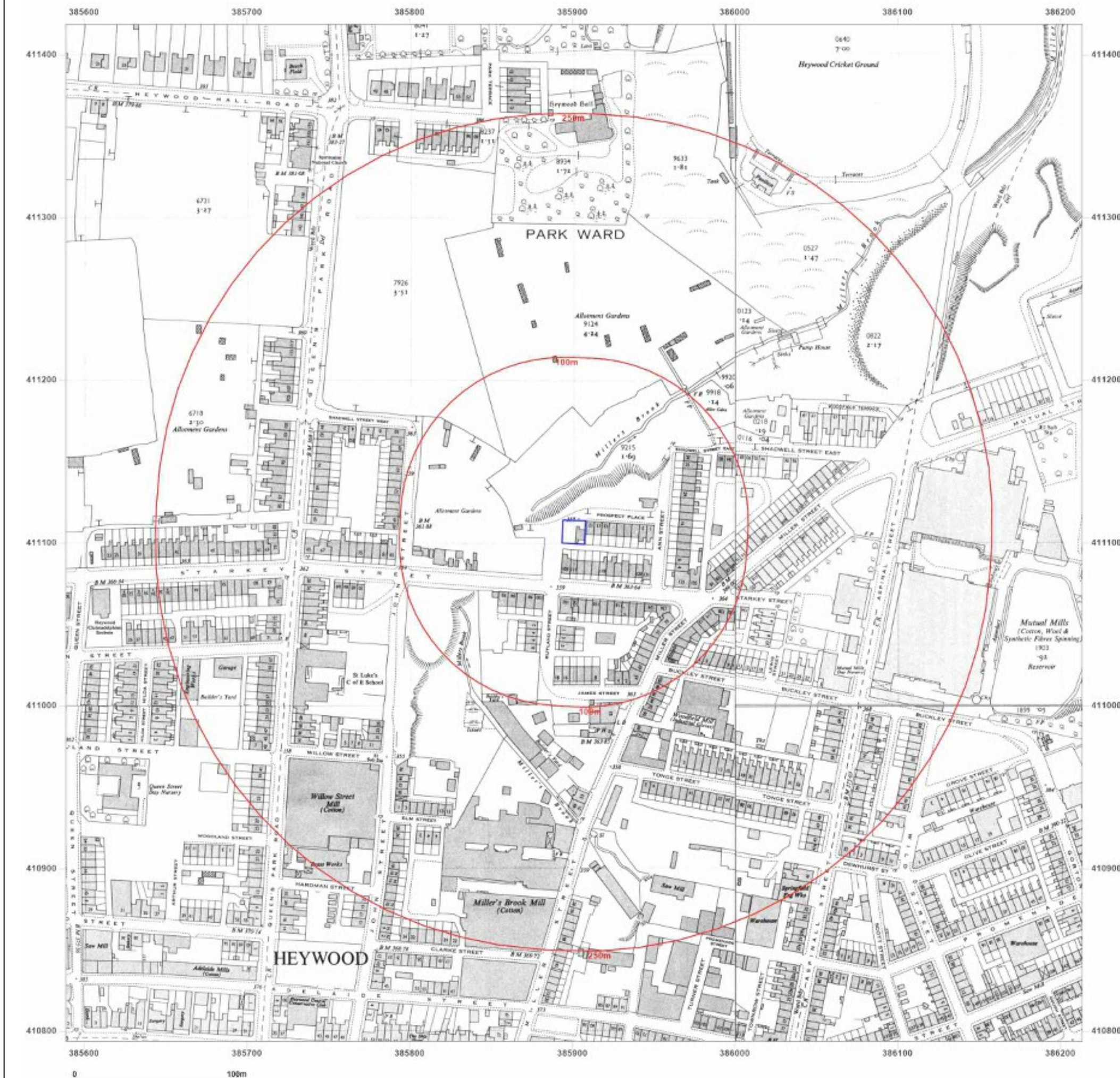


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1967-1968

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956 Revised 1967 Edition N/A Copyright 1968 Levelled 1956	Surveyed 1956 Revised 1967 Edition N/A Copyright 1968 Levelled 1956
Surveyed 1956 Revised 1967 Edition N/A Copyright 1968 Levelled 1962	Surveyed 1956 Revised 1967 Edition N/A Copyright 1968 Levelled 1956

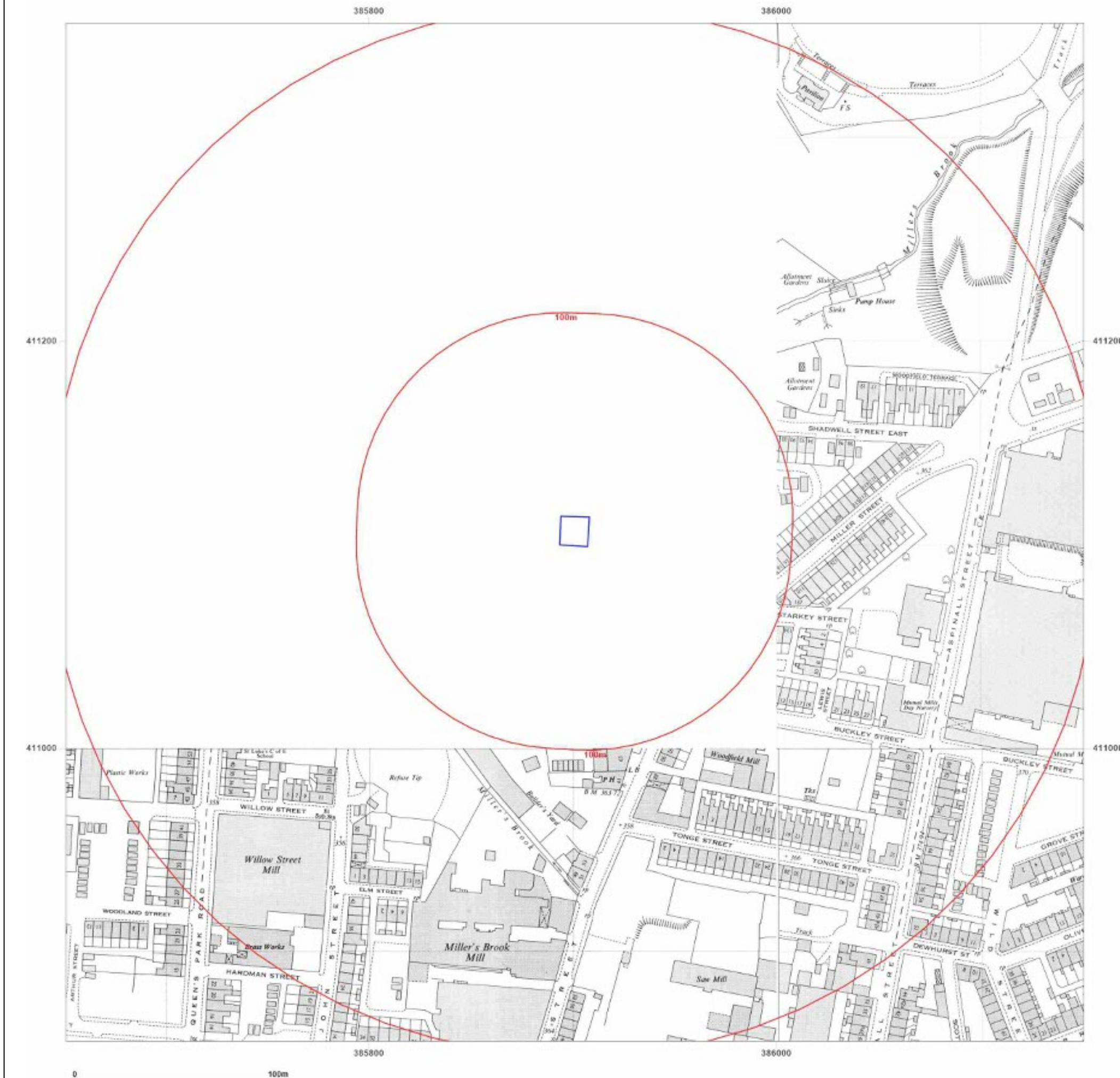


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1969

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1967
Revised 1967
Edition N/A
Copyright 1969
Levelled 1962

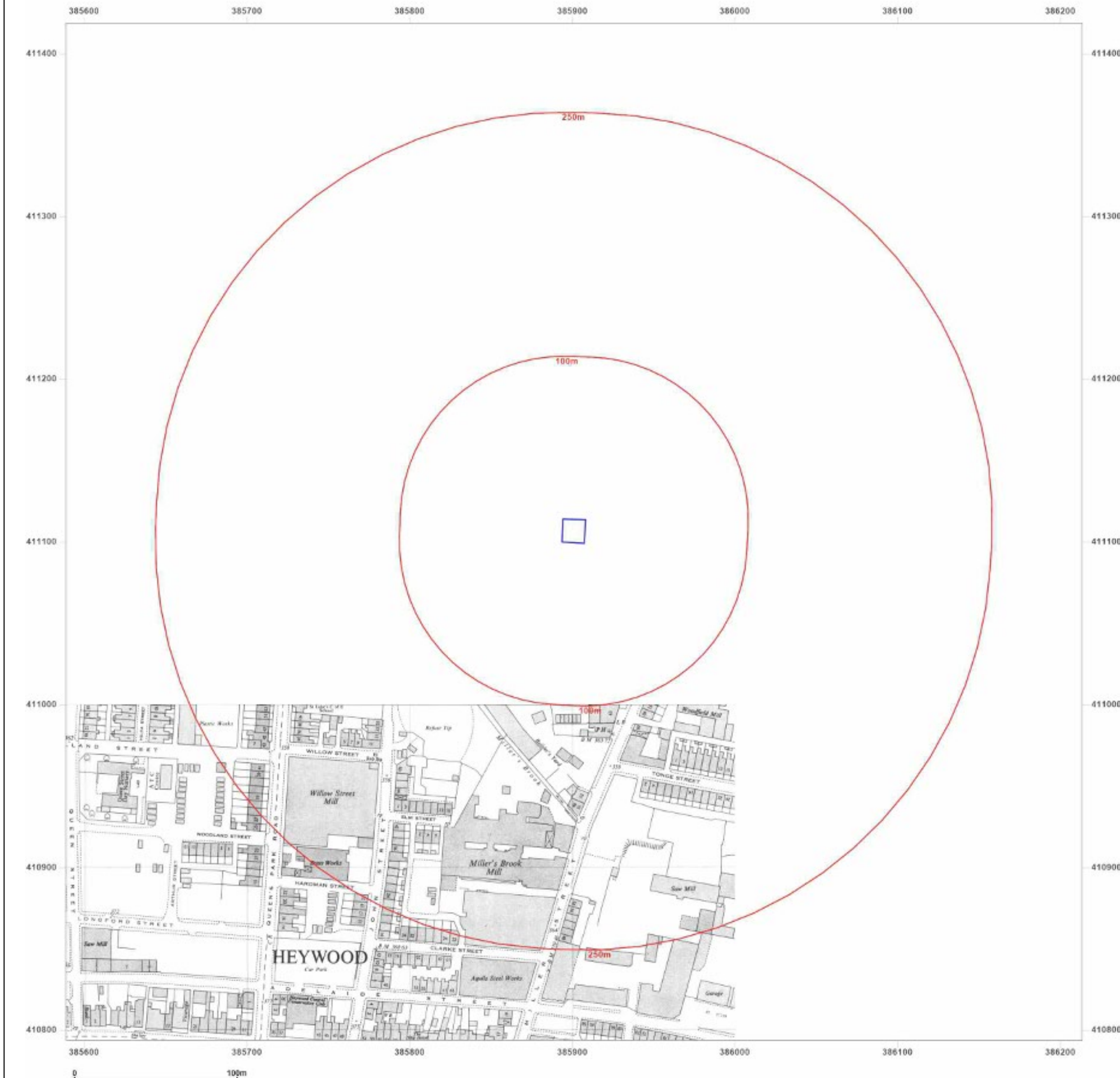


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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1973-1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
Revised 1973
Edition N/A
Copyright 1973
Levelled 1962

Surveyed 1956
Revised 1973
Edition N/A
Copyright 1974
Levelled 1956

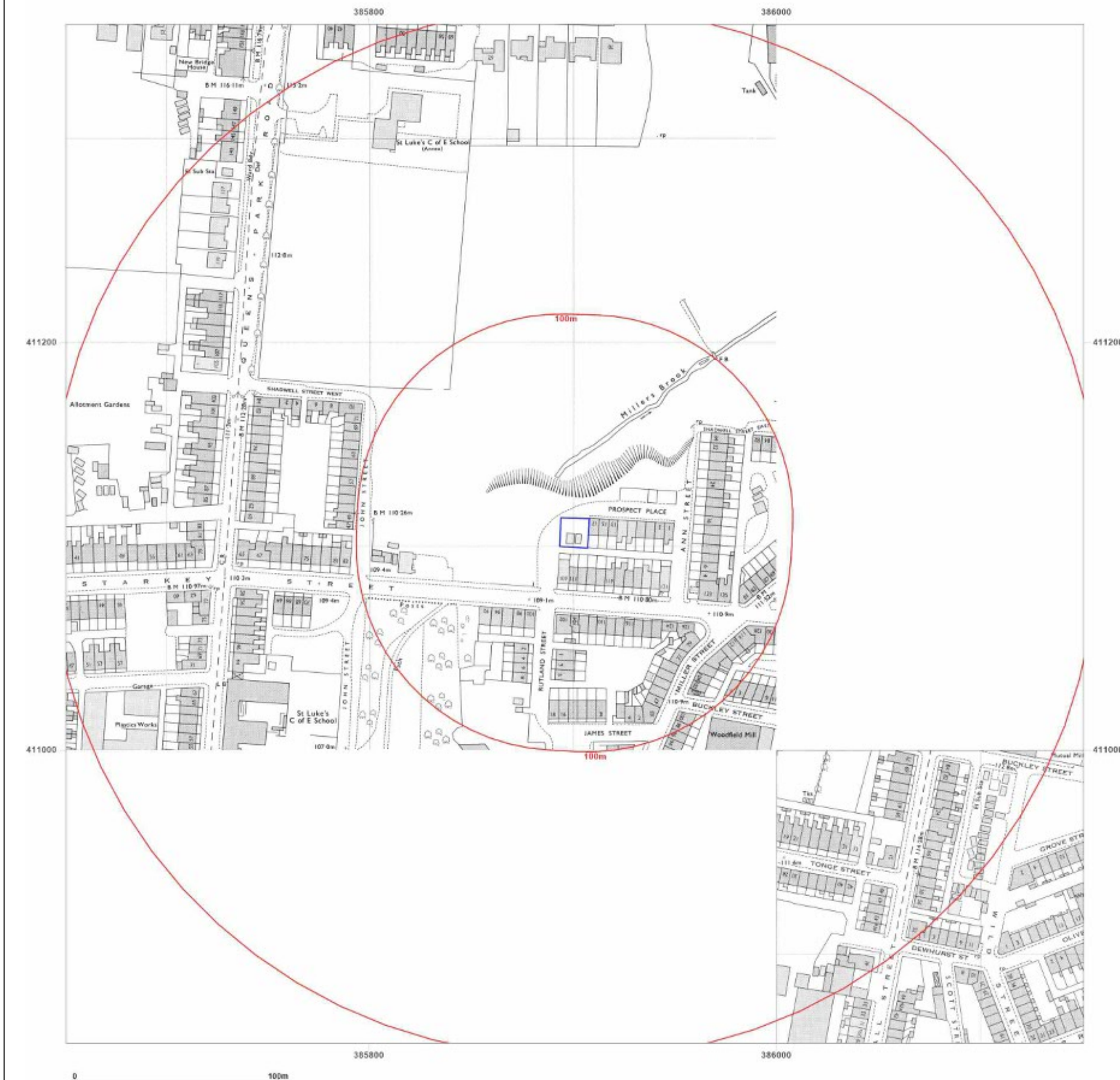


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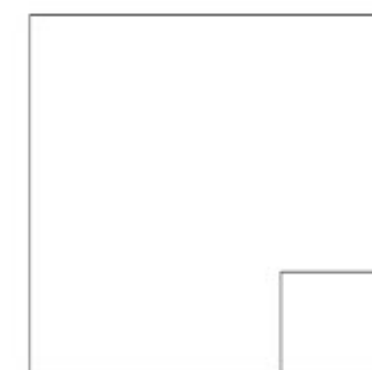
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

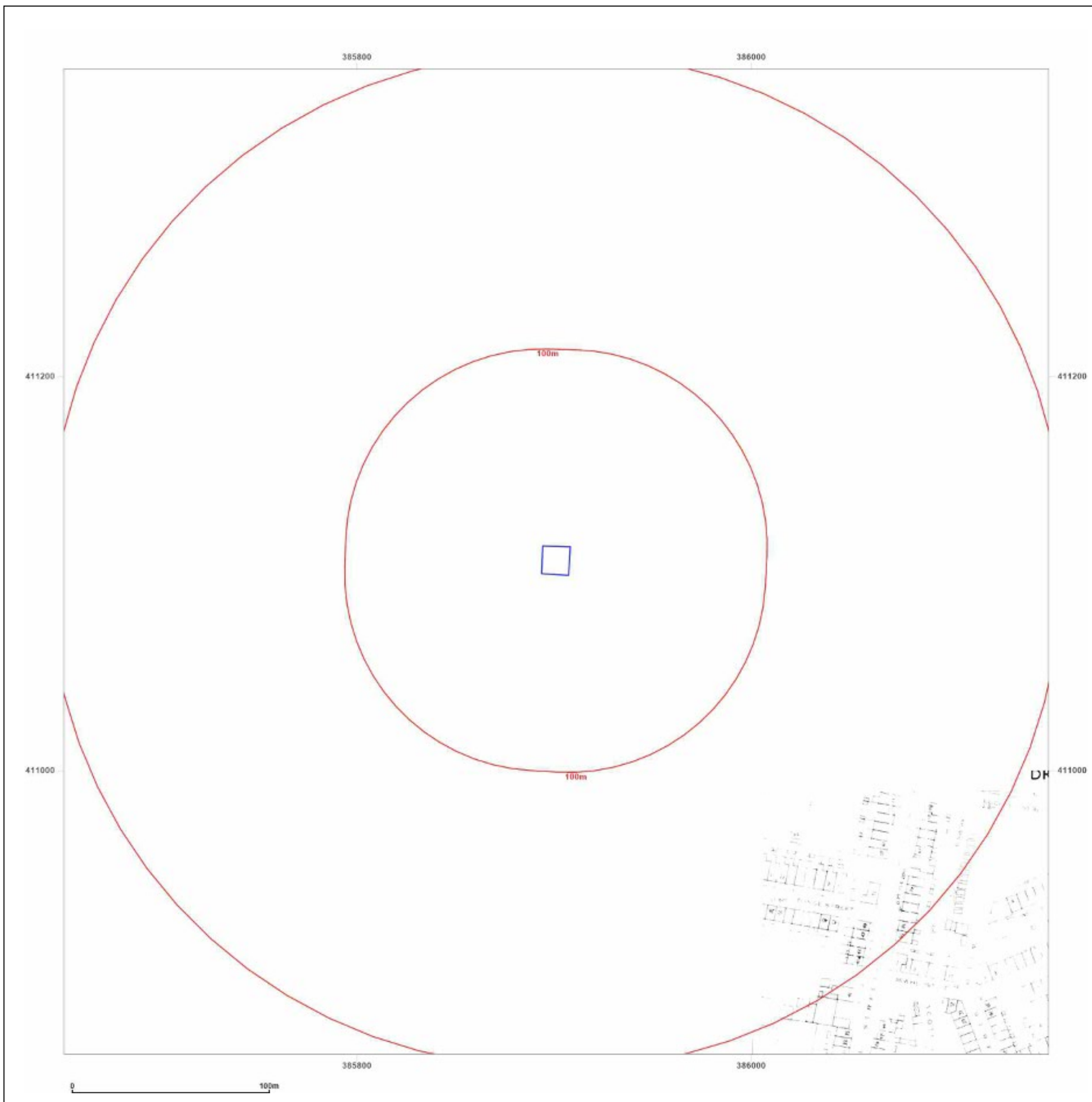


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1981-1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1985
Levelled 1962

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1962

Surveyed 1956
Revised 1985
Edition N/A
Copyright 1985
Levelled 1956

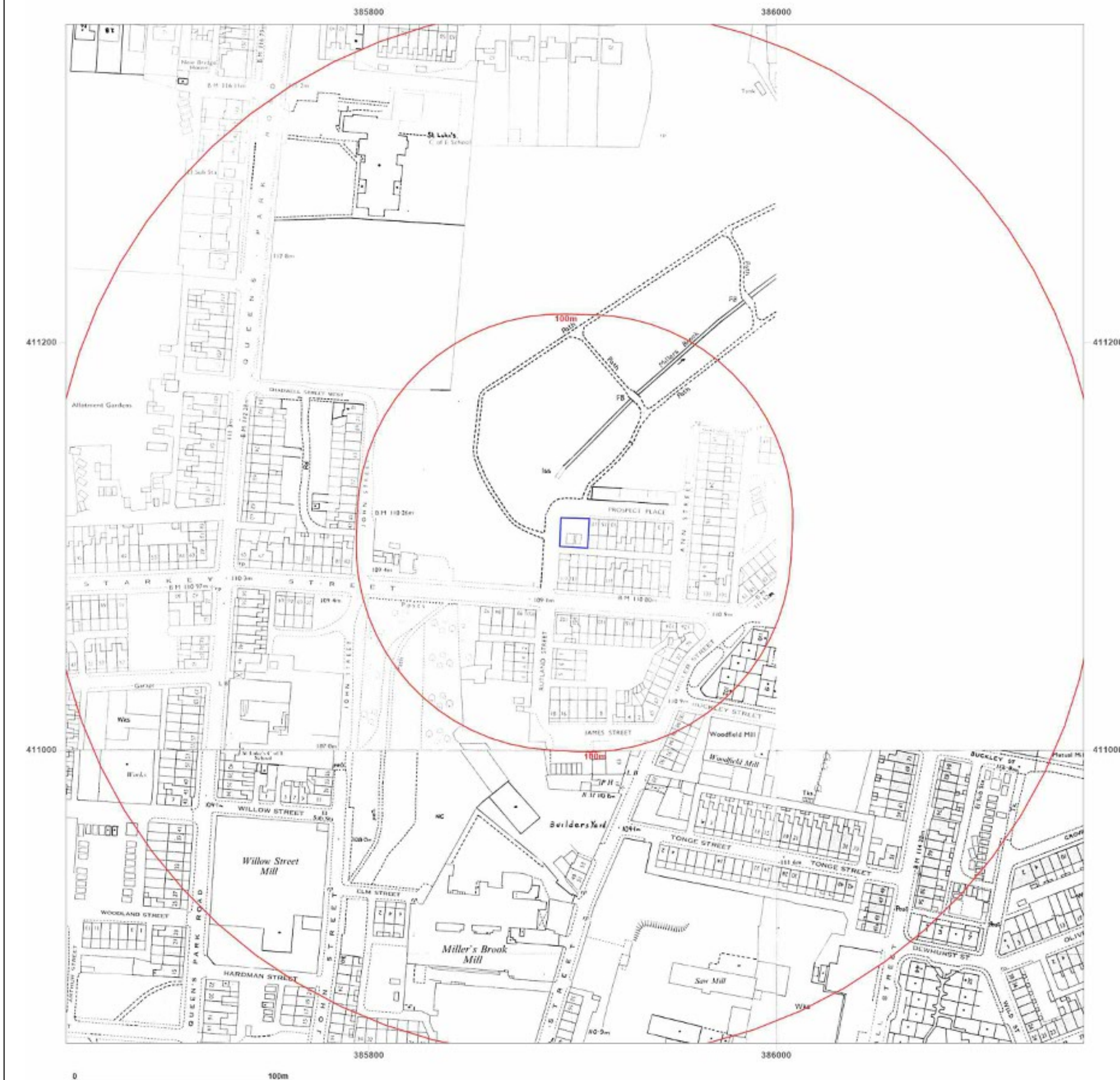


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Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1989-1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1956
Revised 1989
Edition N/A
Copyright 1989
Levelled N/A

Surveyed 1991
Revised 1991
Edition N/A
Copyright 1991
Levelled N/A

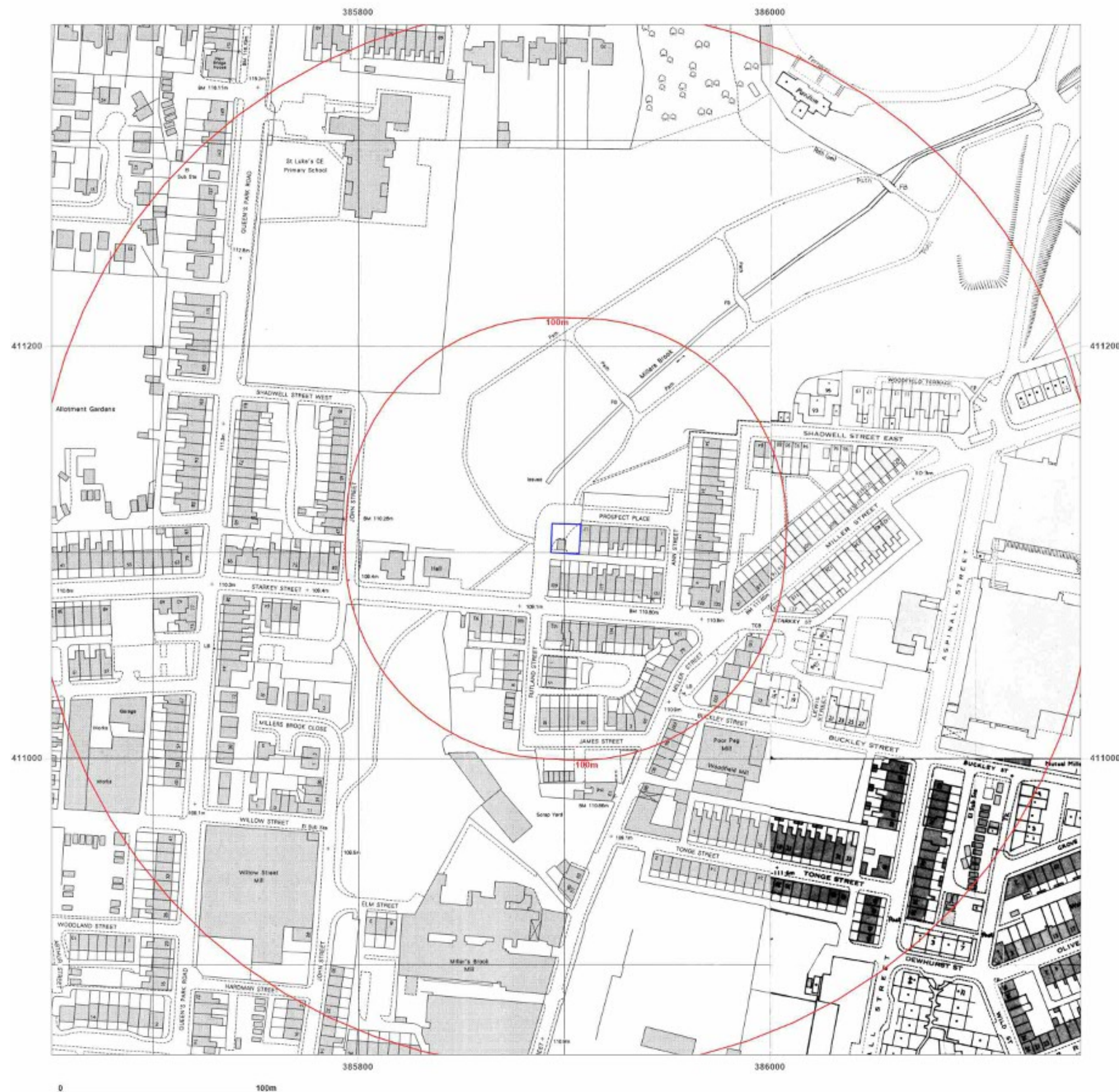


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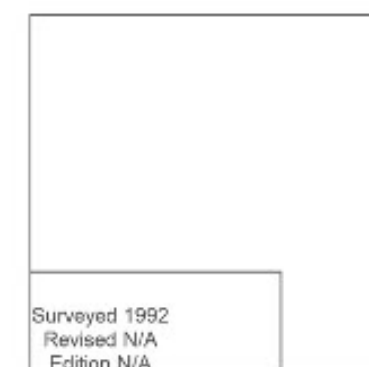
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

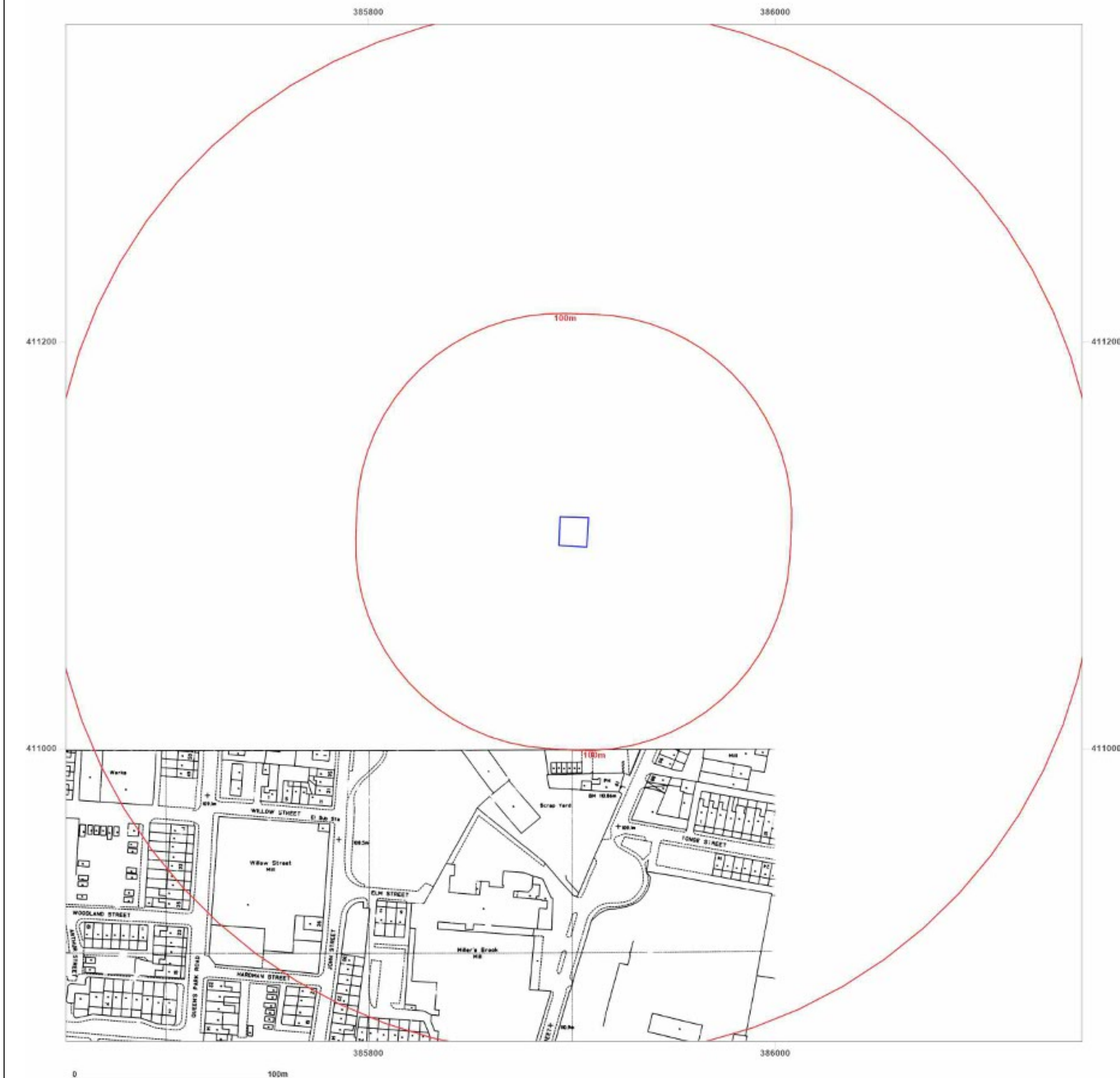


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Site Details:

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Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1990-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1966
Revised 1989
Edition N/A
Copyright 1989
Levelled N/A

Surveyed 1992
Revised N/A
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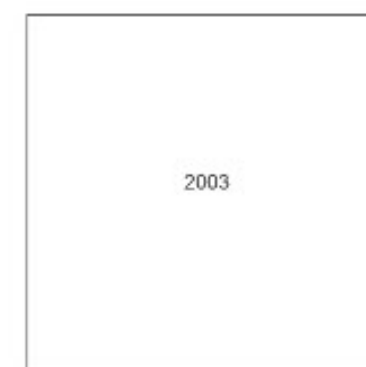
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

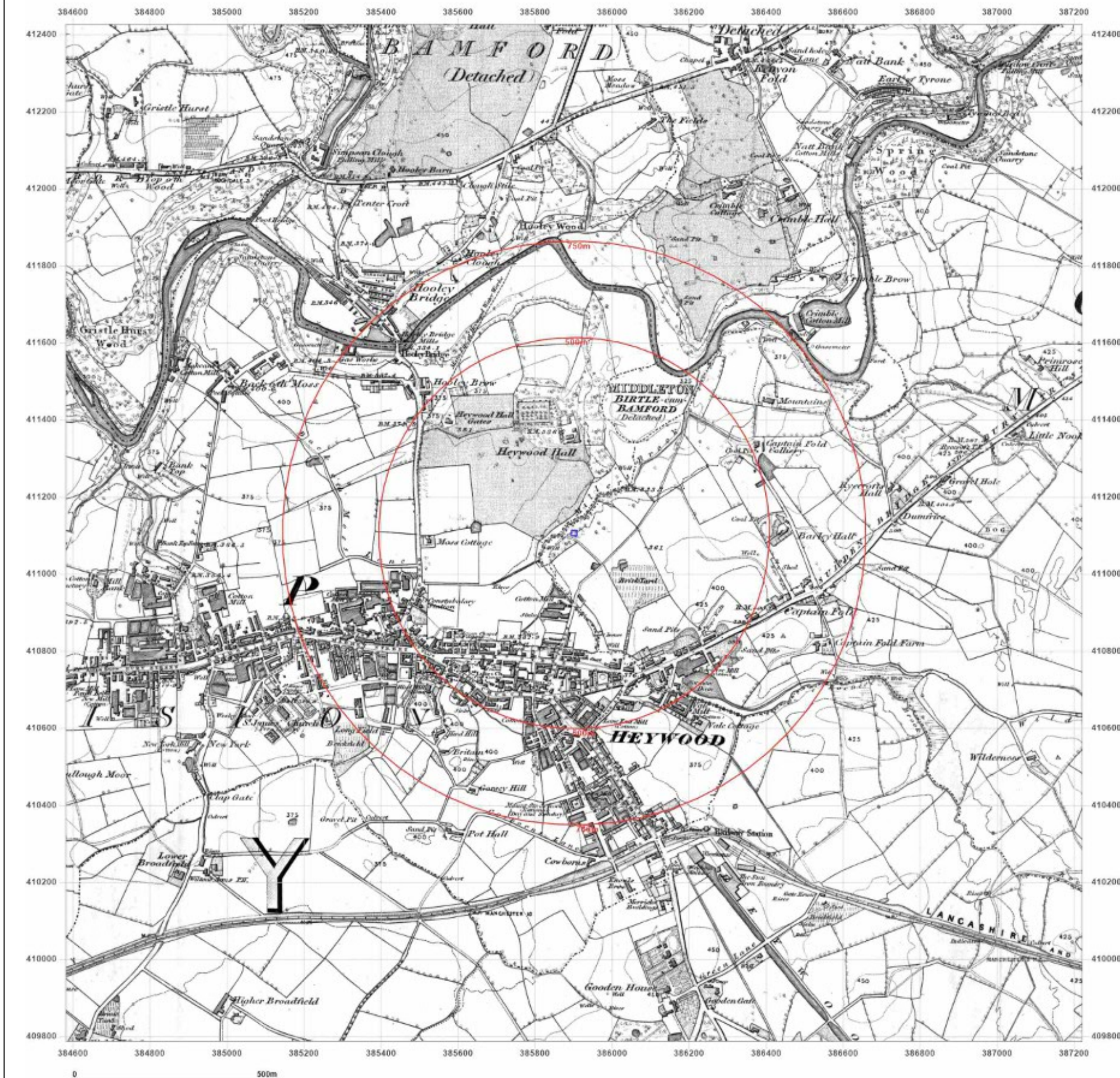


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1890

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

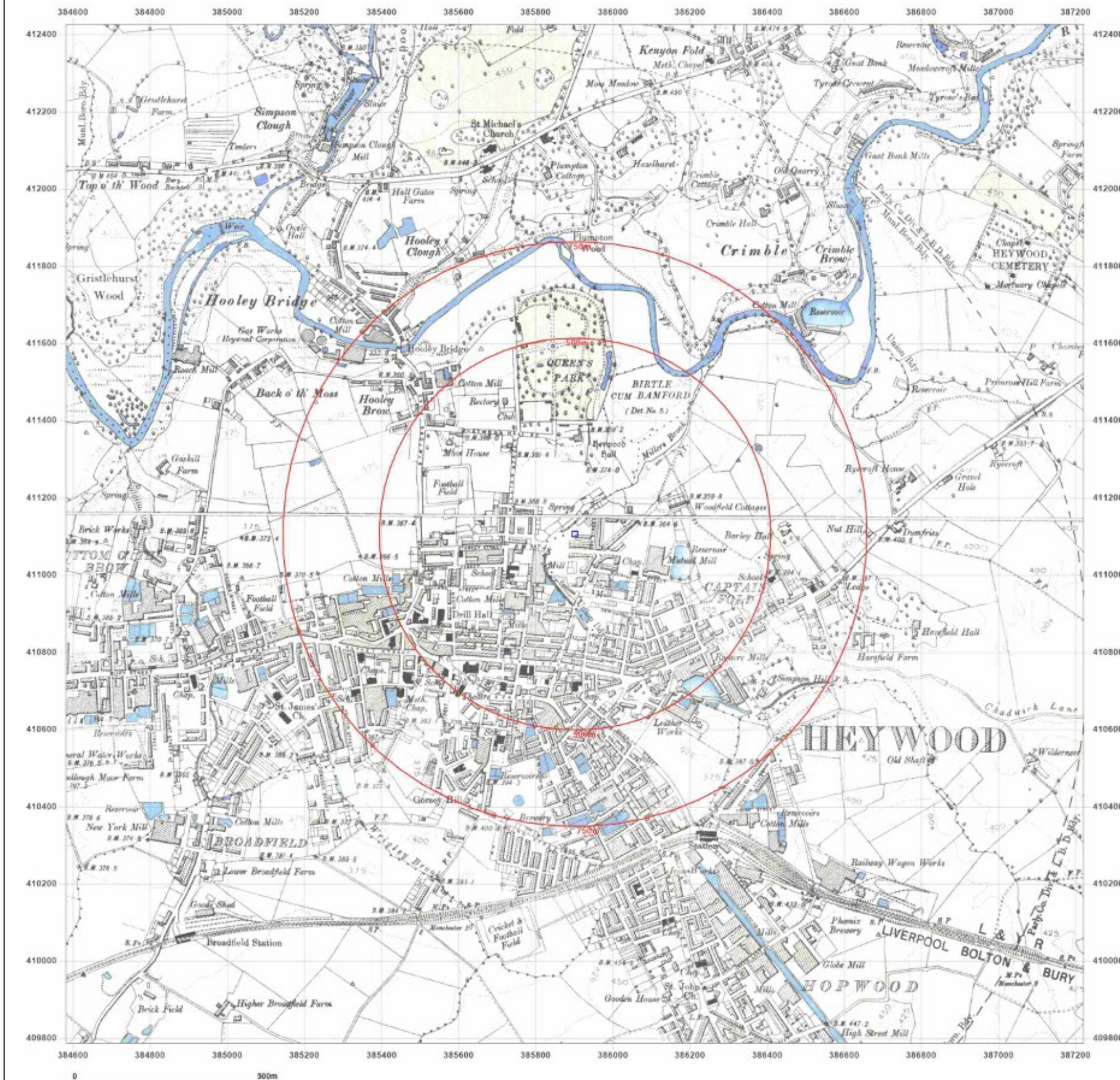


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

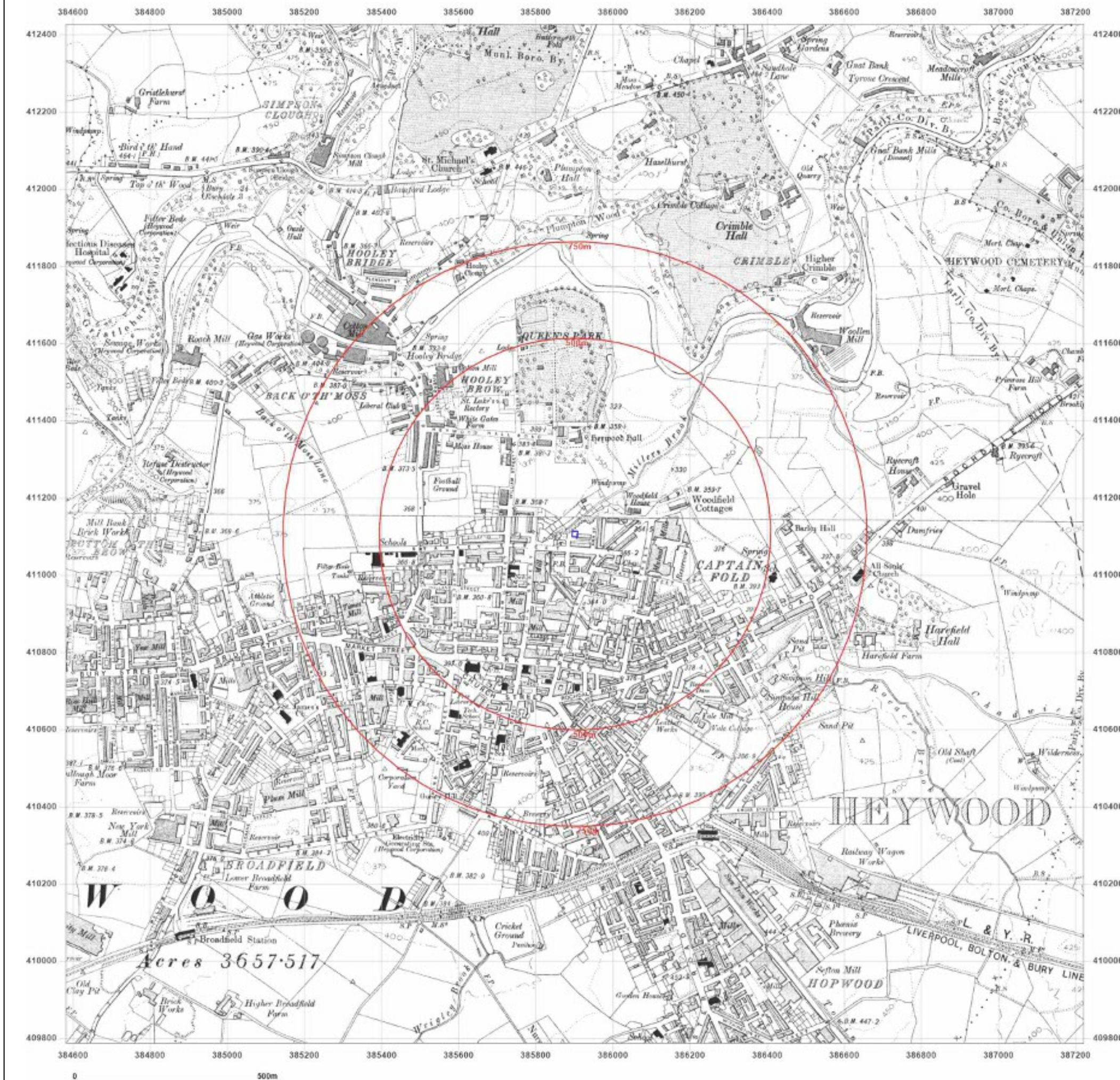


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Site Details:

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Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1928

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

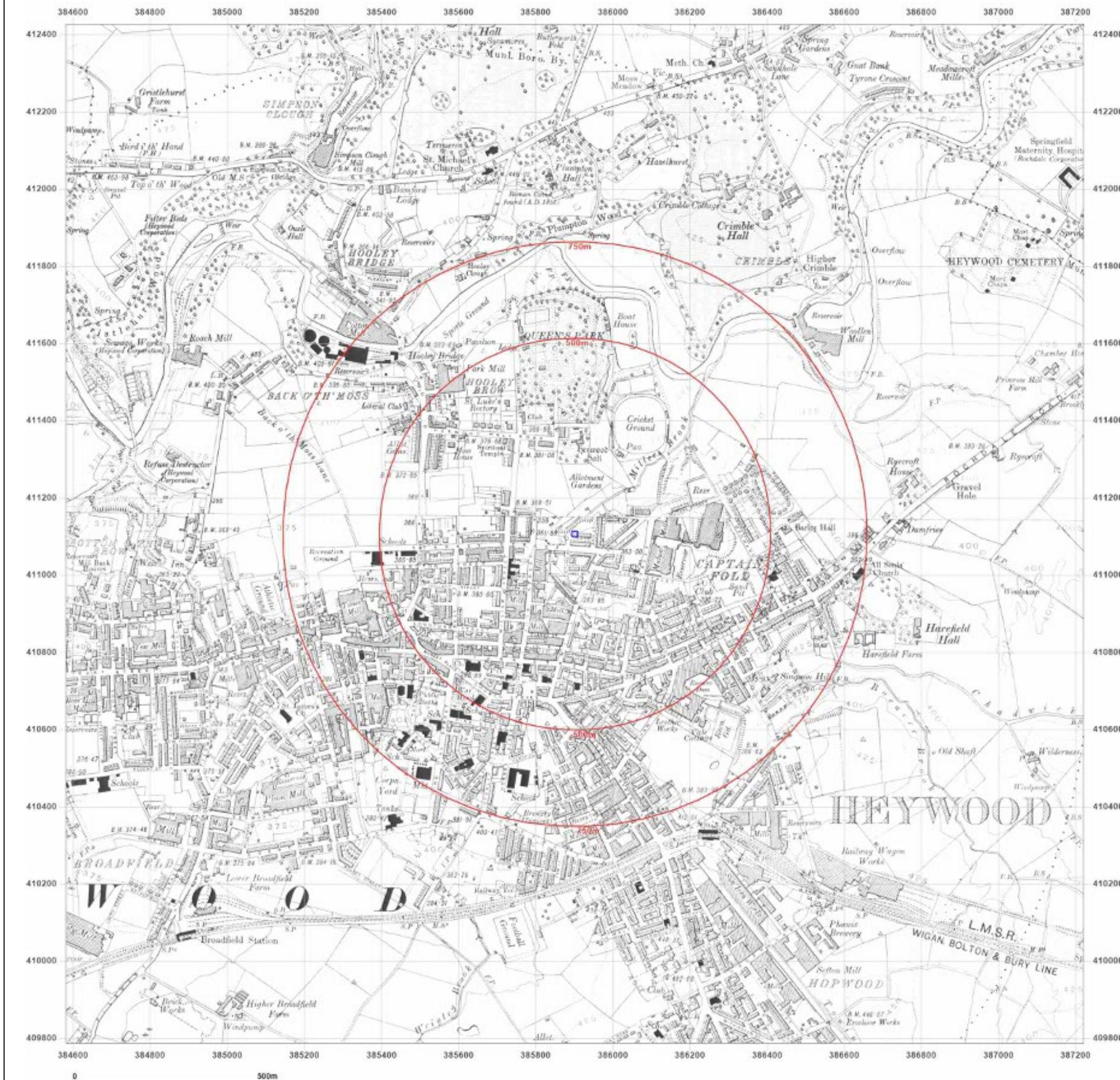


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

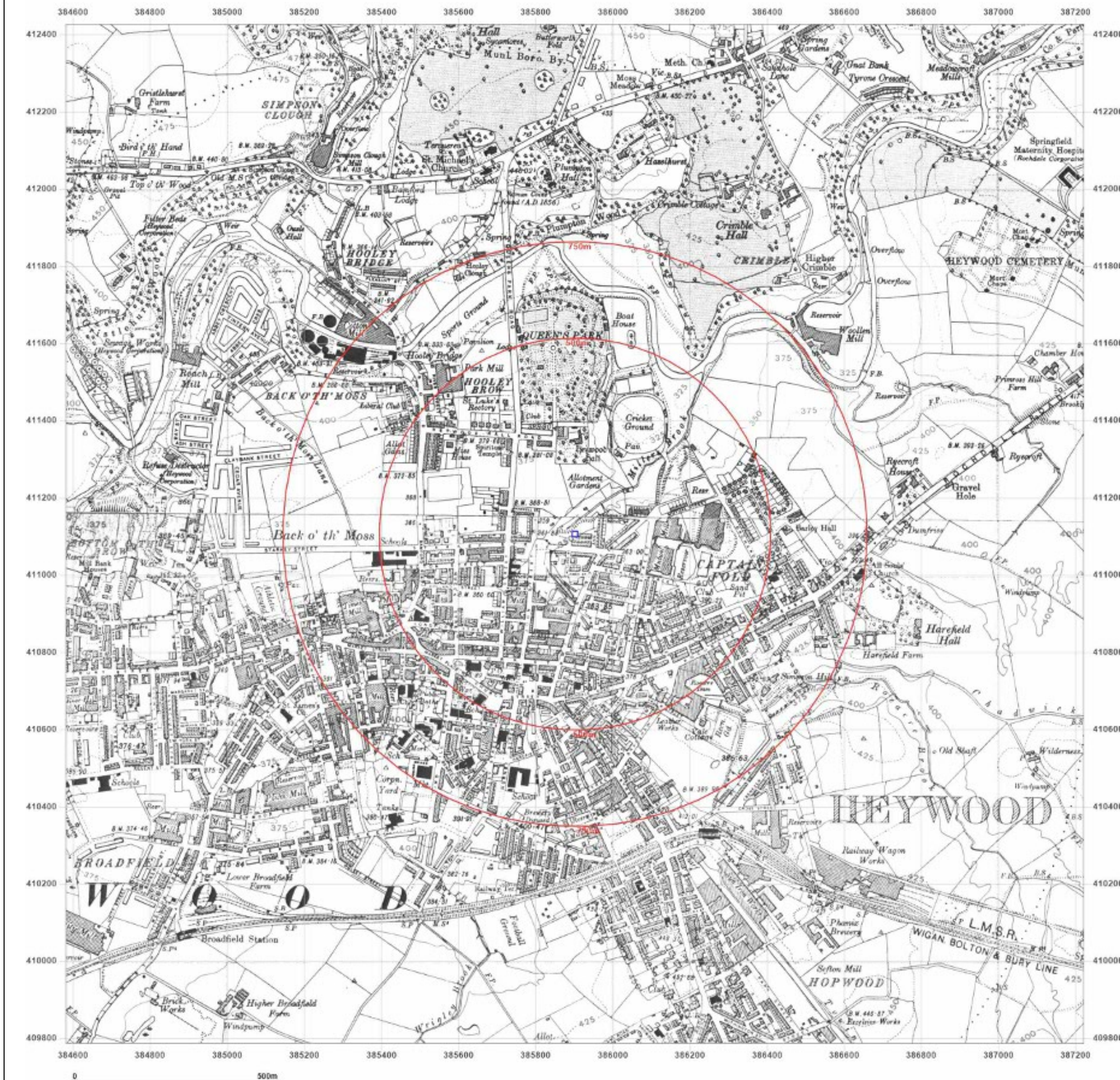


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
Revised 1949
Edition N/A
Copyright 1956
Levelled N/A

Surveyed N/A
Revised 1955
Edition 1956
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1955
Edition 1955
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

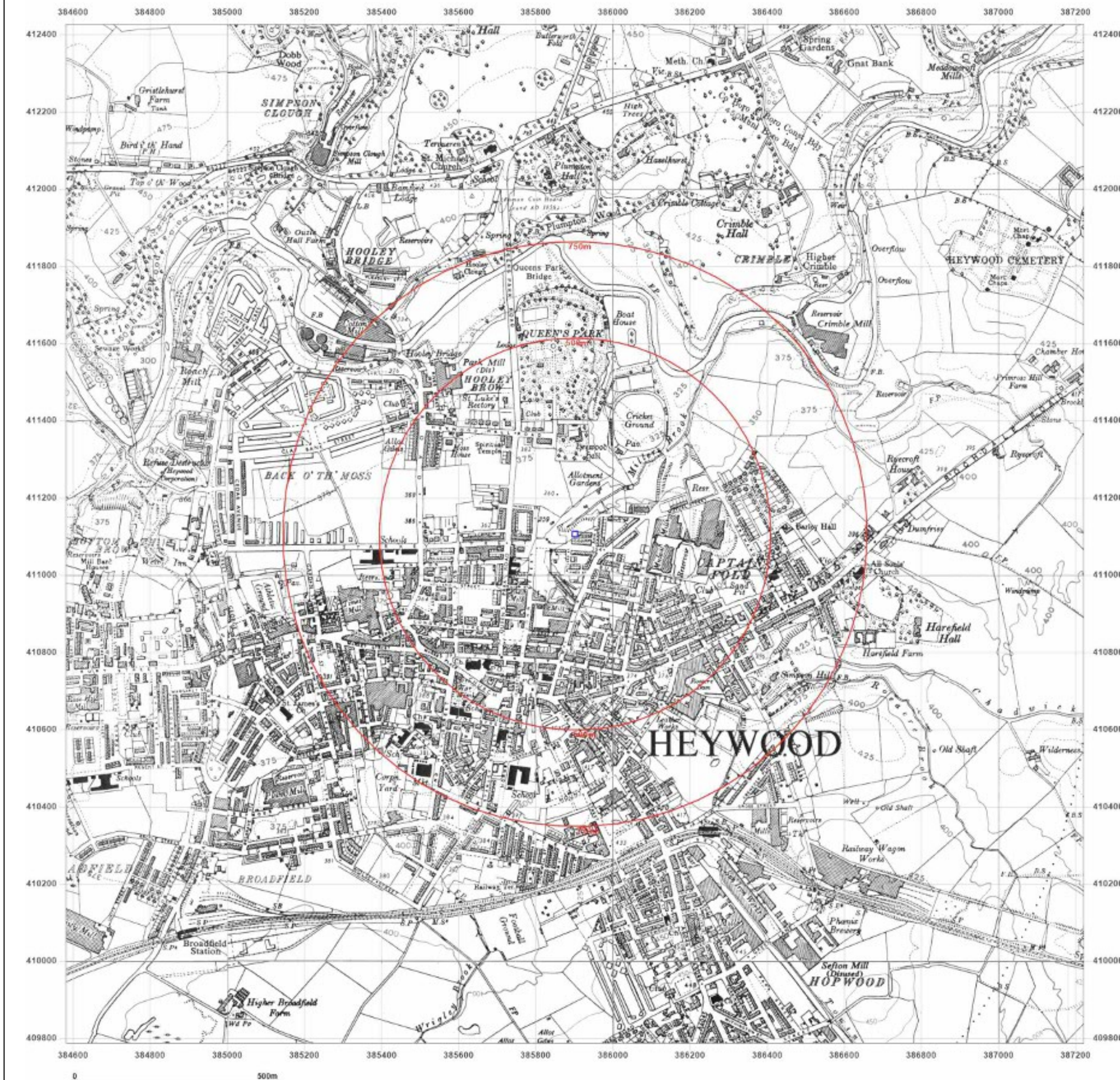


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Site Details:

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Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: Provisional

Map date: 1965-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

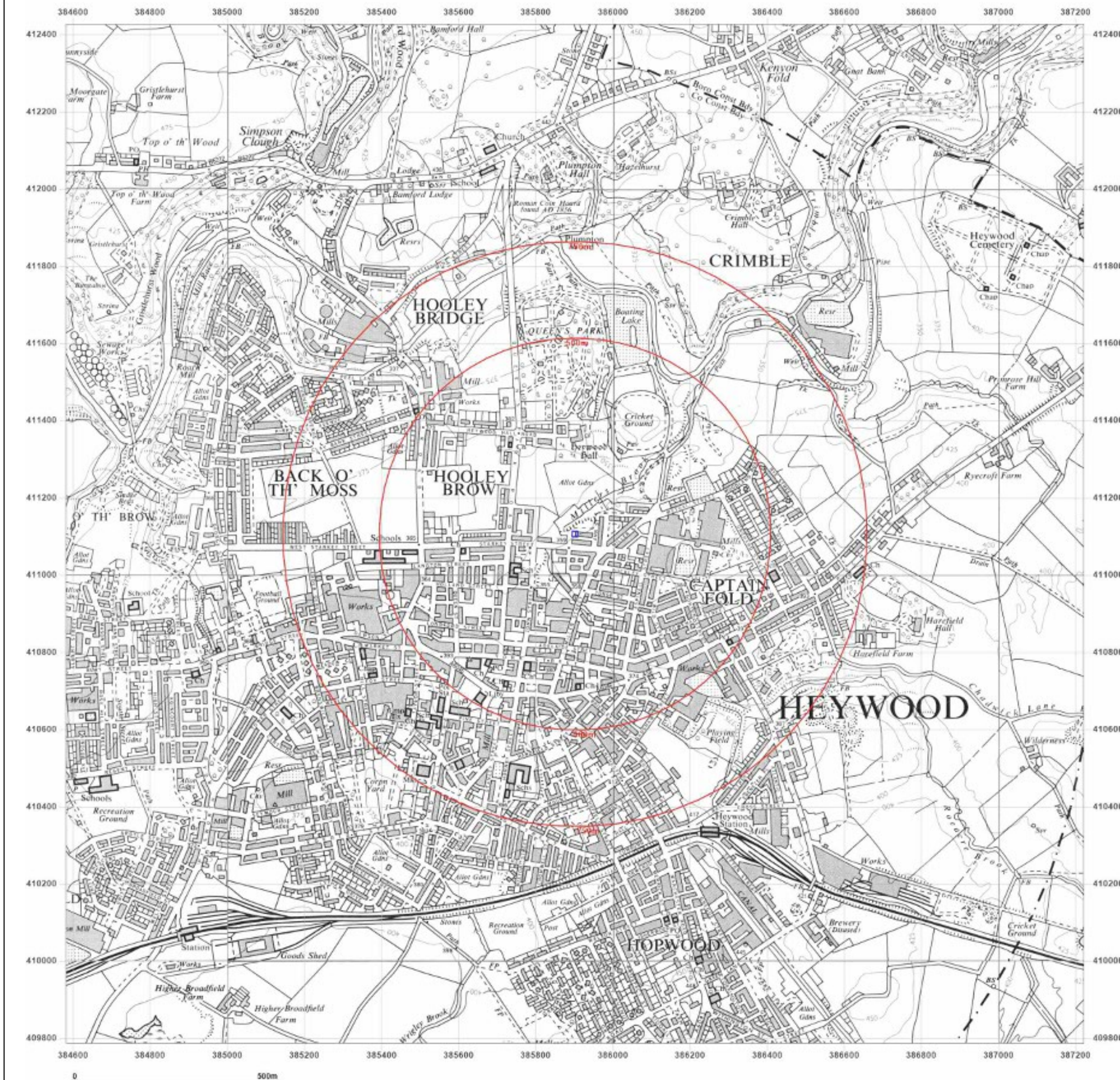


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1974-1975

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1975
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1974
Revised 1975
Edition N/A
Copyright N/A
Levelled N/A

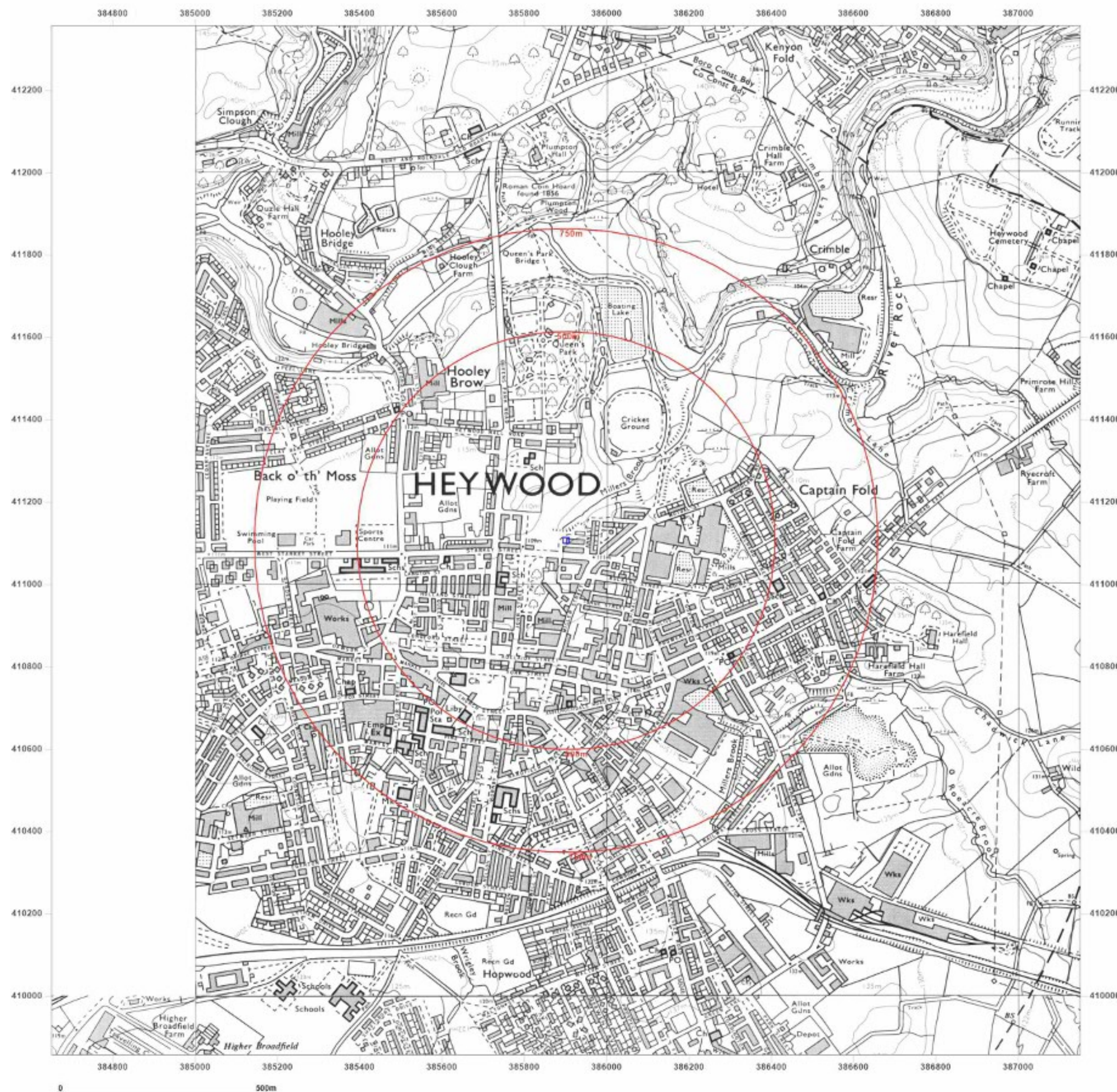


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1984
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

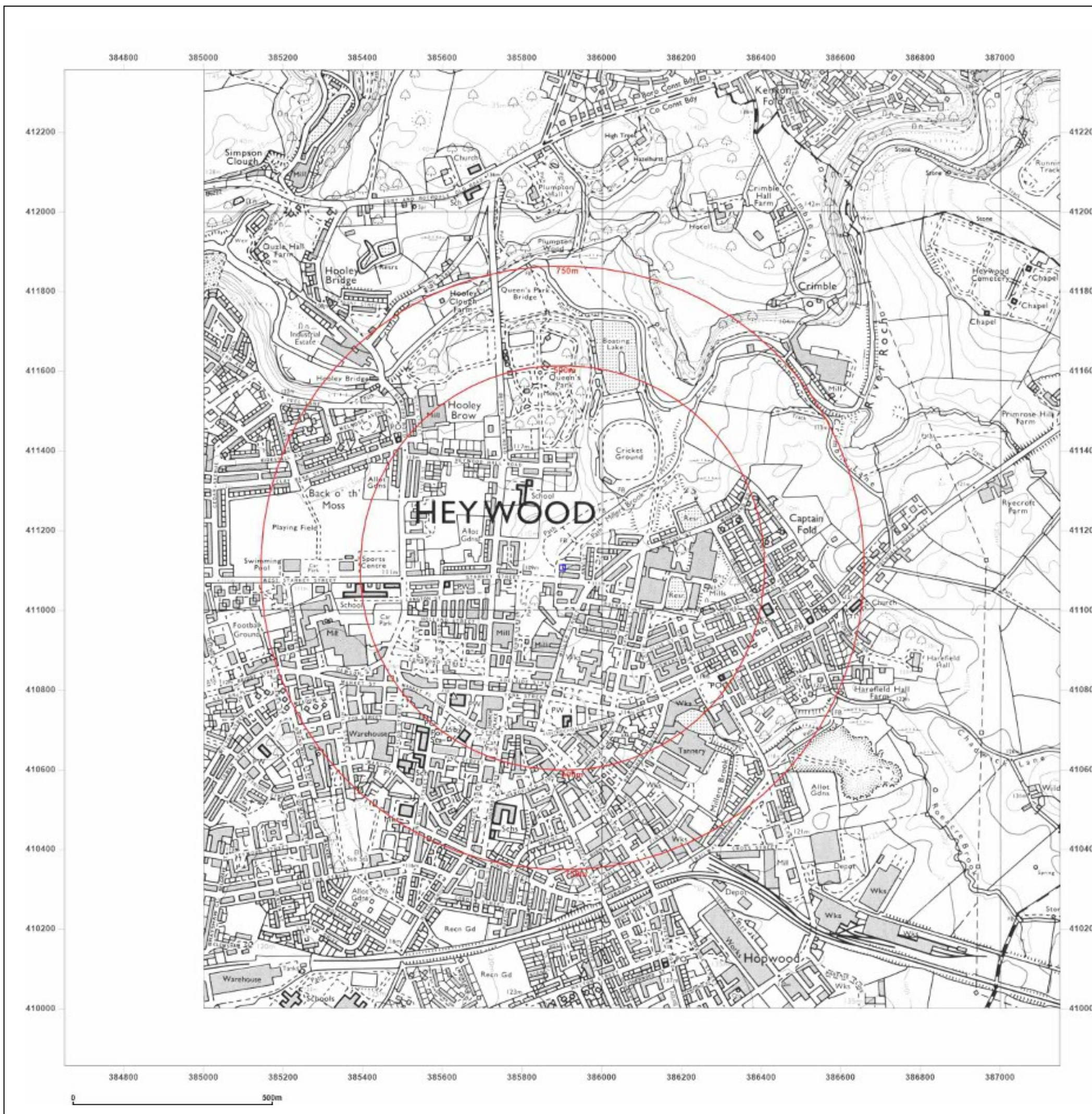


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Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1984
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

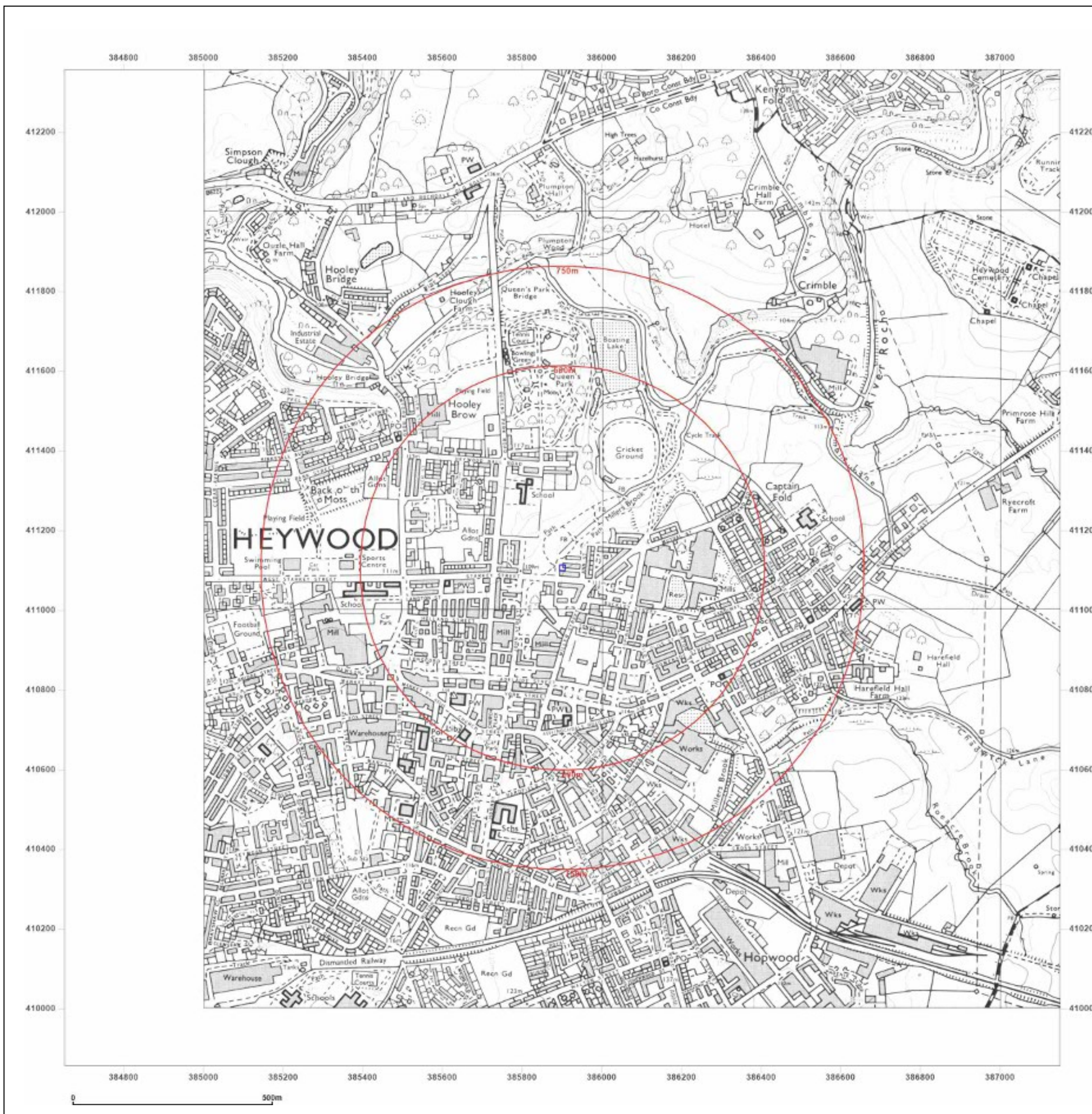


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Site Details:

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HEYWOOD, OL10 4JQ

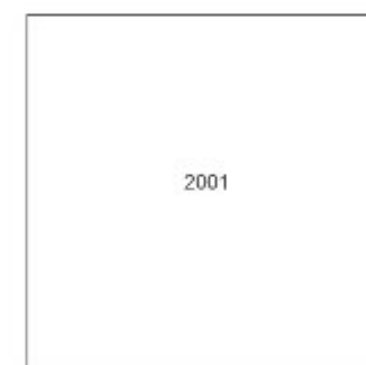
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

LA 17 PROSPECT PLACE,
HEYWOOD, OL10 4JQ

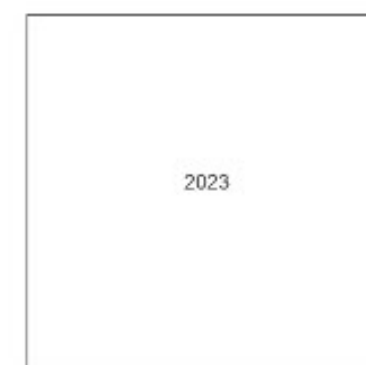
Client Ref: PH1-2023-000007
Report Ref: GS-9365083
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000

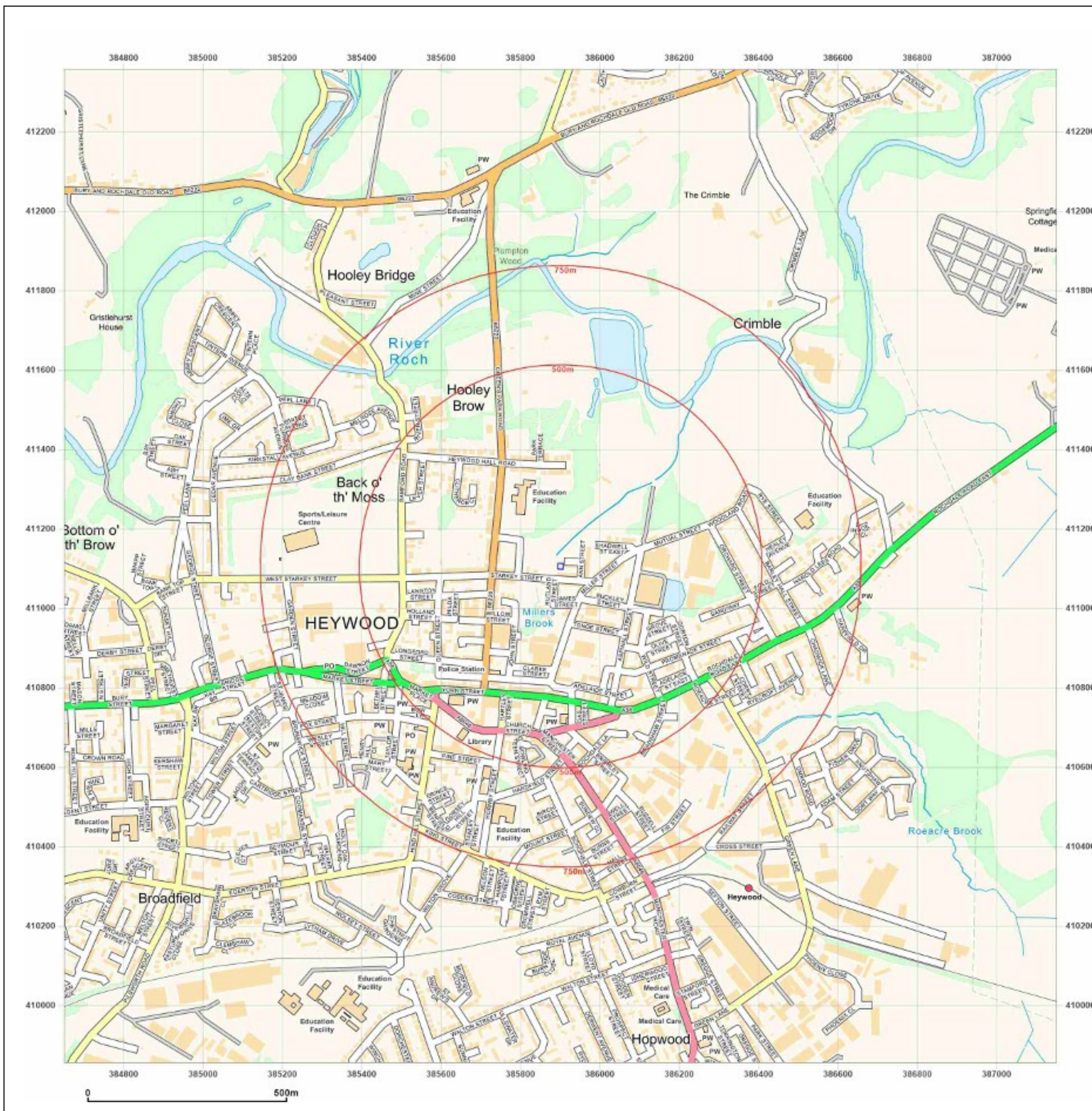


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19 APPENDIX 3 – ENVIRONMENTAL SCREENING REPORT

LA 17 PROSPECT PLACE, HEYWOOD, OL10 4JQ

Order Details

Date: 17/02/2023
Your ref: PH1-2023-000007
Our Ref: GS-9365084

Site Details

Location: 385901 411107
Area: 0.02 ha
Authority: [Rochdale Metropolitan Borough Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.13 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	1	1	35	53	-
18	1.2	Historical tanks	0	0	5	31	-
20	1.3	Historical energy features	0	0	4	11	-
20	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	6	13	-
22	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
23	2.1	Historical industrial land uses	1	1	44	70	-
28	2.2	Historical tanks	0	0	14	56	-
31	2.3	Historical energy features	0	0	14	28	-
32	2.4	Historical petrol stations	0	0	0	0	-
33	2.5	Historical garages	0	0	11	21	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	1	-
36	3.3	Historical landfill (LA/mapping records)	0	0	2	1	-
36	3.4	Historical landfill (EA/NRW records)	0	0	1	1	-
37	3.5	Historical waste sites	0	0	3	1	-
38	3.6	Licensed waste sites	0	0	0	0	-
38	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
39	4.1	Recent industrial land uses	0	0	13	-	-
40	4.2	Current or recent petrol stations	0	0	0	2	-
41	4.3	Electricity cables	0	0	0	0	-
41	4.4	Gas pipelines	0	0	0	0	-
41	4.5	Sites determined as Contaminated Land	0	0	0	0	-



41	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
42	4.8	Hazardous substance storage/usage	0	0	0	0	-
42	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
42	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
42	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	3	-
43	4.12	Radioactive Substance Authorisations	0	0	0	0	-
43	4.13	<u>Licensed Discharges to controlled waters</u>	0	1	3	0	-
44	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
44	4.15	Pollutant release to public sewer	0	0	0	0	-
44	4.16	List 1 Dangerous Substances	0	0	0	0	-
44	4.17	List 2 Dangerous Substances	0	0	0	0	-
45	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	4	9	-
46	4.19	Pollution inventory substances	0	0	0	0	-
46	4.20	Pollution inventory waste transfers	0	0	0	0	-
47	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
48	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
50	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
51	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
52	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
52	5.5	Groundwater vulnerability- local information	None (within 0m)				
53	5.6	<u>Groundwater abstractions</u>	0	0	0	1	16
58	5.7	<u>Surface water abstractions</u>	0	0	0	0	12
61	5.8	Potable abstractions	0	0	0	0	0
61	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
63	6.1	<u>Water Network (OS MasterMap)</u>	0	2	0	-	-



64	6.2	<u>Surface water features</u>	0	1	0	-	-
64	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
64	6.4	<u>WFD Surface water bodies</u>	0	1	0	-	-
65	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
66	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
66	7.2	Historical Flood Events	0	0	0	-	-
66	7.3	Flood Defences	0	0	0	-	-
67	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
67	7.5	Flood Storage Areas	0	0	0	-	-
68	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
69	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
70	8.1	<u>Surface water flooding</u>	1 in 1000 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
72	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
73	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
74	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
74	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
74	10.4	Special Protection Areas (SPA)	0	0	0	0	0
74	10.5	National Nature Reserves (NNR)	0	0	0	0	0
75	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
75	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	11
76	10.8	Biosphere Reserves	0	0	0	0	0
76	10.9	Forest Parks	0	0	0	0	0
76	10.10	Marine Conservation Zones	0	0	0	0	0
76	10.11	<u>Green Belt</u>	0	0	1	0	0
77	10.12	Proposed Ramsar sites	0	0	0	0	0



77	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
77	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
77	10.15	Nitrate Sensitive Areas	0	0	0	0	0
78	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
79	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
80	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
82	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
82	11.3	National Parks	0	0	0	-	-
82	11.4	<u>Listed Buildings</u>	0	0	1	-	-
83	11.5	Conservation Areas	0	0	0	-	-
83	11.6	Scheduled Ancient Monuments	0	0	0	-	-
83	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
84	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
85	12.2	Open Access Land	0	0	0	-	-
85	12.3	Tree Felling Licences	0	0	0	-	-
85	12.4	Environmental Stewardship Schemes	0	0	0	-	-
85	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
86	13.1	<u>Priority Habitat Inventory</u>	0	0	4	-	-
87	13.2	Habitat Networks	0	0	0	-	-
87	13.3	Open Mosaic Habitat	0	0	0	-	-
87	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
88	14.1	<u>10k Availability</u>	Identified (within 500m)				
89	14.2	<u>Artificial and made ground (10k)</u>	0	0	1	3	-
91	14.3	<u>Superficial geology (10k)</u>	1	0	1	2	-



<u>92</u>	<u>14.4</u>	<u>Landslip (10k)</u>	0	0	1	1	-
<u>93</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	1	0	5	0	-
<u>94</u>	<u>14.6</u>	<u>Bedrock faults and other linear features (10k)</u>	0	0	1	2	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>95</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
96	15.2	Artificial and made ground (50k)	0	0	0	0	-
96	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>97</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	1	0	1	2	-
<u>98</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
<u>98</u>	<u>15.6</u>	<u>Landslip (50k)</u>	0	0	1	1	-
98	15.7	Landslip permeability (50k)	None (within 50m)				
<u>99</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	1	0	3	0	-
<u>100</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>100</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>101</u>	<u>16.1</u>	<u>BGS Boreholes</u>	0	0	2	-	-
Page	Section	Natural ground subsidence					
<u>102</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Negligible (within 50m)				
<u>103</u>	<u>17.2</u>	<u>Running sands</u>	Very low (within 50m)				
<u>104</u>	<u>17.3</u>	<u>Compressible deposits</u>	Negligible (within 50m)				
<u>105</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>106</u>	<u>17.5</u>	<u>Landslides</u>	Very low (within 50m)				
<u>107</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
109	18.1	Natural cavities	0	0	0	0	-
<u>110</u>	<u>18.2</u>	<u>BritPits</u>	0	0	1	2	-
<u>110</u>	<u>18.3</u>	<u>Surface ground workings</u>	1	1	21	-	-
111	18.4	Underground workings	0	0	0	0	0
112	18.5	Historical Mineral Planning Areas	0	0	0	0	-



112	18.6	Non-coal mining	0	0	0	0	0
112	18.7	Mining cavities	0	0	0	0	0
112	18.8	JPB mining areas	None (within 0m)				
112	18.9	<u>Coal mining</u>	Identified (within 0m)				
113	18.10	Brine areas	None (within 0m)				
113	18.11	Gypsum areas	None (within 0m)				
113	18.12	Tin mining	None (within 0m)				
113	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
114	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
116	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
116	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
116	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
117	21.1	Underground railways (London)	0	0	0	-	-
117	21.2	Underground railways (Non-London)	0	0	0	-	-
117	21.3	Railway tunnels	0	0	0	-	-
117	21.4	Historical railway and tunnel features	0	0	0	-	-
117	21.5	Royal Mail tunnels	0	0	0	-	-
118	21.6	Historical railways	0	0	0	-	-
118	21.7	Railways	0	0	0	-	-
118	21.8	Crossrail 1	0	0	0	0	-
118	21.9	Crossrail 2	0	0	0	0	-
118	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.02ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.02ha



Recent site history - 2011 aerial photograph



Capture Date: 02/05/2011

Site Area: 0.02ha



Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.02ha

Recent site history - 1999 aerial photograph



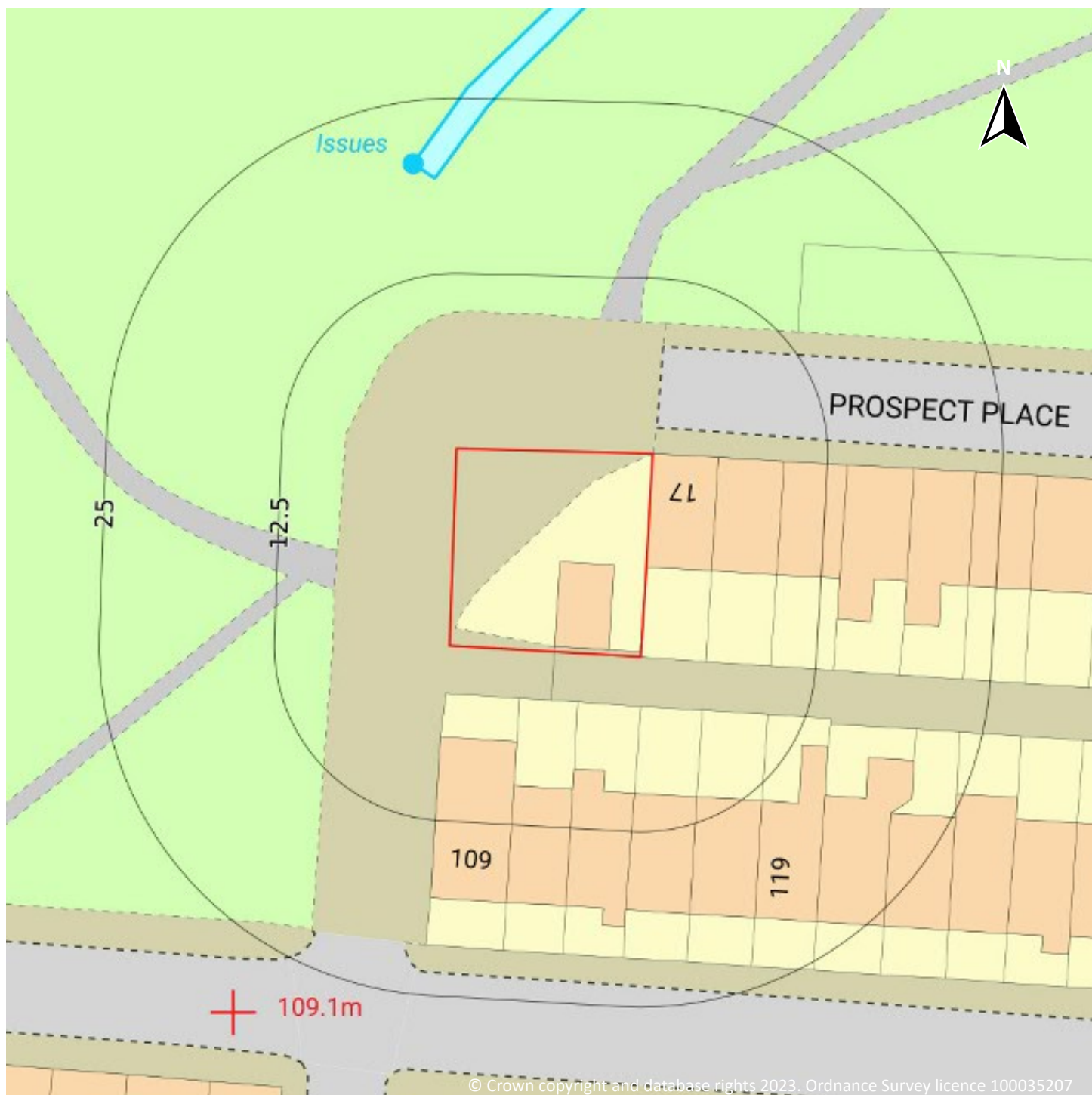
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved.

Capture Date: 10/09/1999

Site Area: 0.02ha



OS MasterMap site plan



Site Area: 0.02ha

1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

90

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	On site	Refuse Heap	1909	677990



ID	Location	Land use	Dates present	Group ID
A	0m NW	Unspecified Ground Workings	1938	648062
B	68m SW	Unspecified Mill	1928	768377
B	69m SW	Unspecified Disused Mill	1890	675746
B	70m SW	Unspecified Mill	1909	718051
B	76m SW	Unspecified Ground Workings	1968	648067
C	98m SE	Brick Yard	1851	681784
D	106m SE	Unspecified Mill	1890	657011
D	122m SE	Ground Workings	1851	681864
E	125m S	Unspecified Mill	1975 - 1987	715409
E	128m S	Unspecified Commercial/Industrial	1968	643272
E	128m S	Unspecified Mill	1949	695567
E	130m S	Unspecified Mill	1928	768378
E	134m S	Unspecified Mill	1992	787885
E	134m S	Cotton Mill	1851	644456
B	138m SW	Cotton Mills	1890	659319
F	139m E	Unspecified Mills	1928	765674
G	145m S	Unspecified Works	1987	679035
E	167m S	Unspecified Mill	1938	767123
E	170m S	Unspecified Mill	1909	771419
B	181m SW	Unspecified Mill	1975 - 1992	744725
B	181m SW	Unspecified Commercial/Industrial	1968	643271
B	181m SW	Unspecified Mill	1949	744152
F	184m E	Unspecified Mill	1890	701813
B	185m SW	Unspecified Mill	1938	787576
G	186m S	Refuse Heap	1909	677989
B	187m SW	Unspecified Mill	1909 - 1928	752340
1	188m NE	Unspecified Ground Workings	1992	648063
F	190m E	Unspecified Mills	1909	768510



ID	Location	Land use	Dates present	Group ID
F	190m E	Unspecified Mills	1968 - 1992	704476
F	190m E	Unspecified Mill	1949	730399
F	191m E	Unspecified Mill	1938	708740
G	193m S	Unspecified Ground Workings	1928	648068
E	195m SW	Unspecified Mill	1928	790270
F	232m E	Unspecified Ground Workings	1890	648069
J	239m NE	Unspecified Ground Workings	1968 - 1987	704425
J	239m NE	Unspecified Ground Workings	1992	737153
J	304m NE	Unspecified Heap	1928 - 1938	707764
J	306m NE	Unspecified Heap	1949	758657
L	312m E	Unspecified Ground Workings	1928	733555
J	352m NE	Refuse Heap	1975 - 1987	772997
4	359m SE	Unspecified Pit	1890	690988
M	361m W	Cotton Mills	1890	659320
N	362m NW	Unspecified Works	1968	679036
6	366m SE	Sand Pits	1851	664409
L	374m E	Chimney	1968 - 1992	717336
O	376m SE	Leather Works	1928 - 1938	756615
L	377m E	Unspecified Ground Workings	1987 - 1992	703815
8	387m SW	Grave Yard	1851	668134
L	389m E	Unspecified Pit	1968 - 1992	695481
P	395m SE	Rope Walk	1851	641249
M	406m W	Unspecified Mill	1949	737659
9	415m S	Unspecified Commercial/Industrial	1851	643273
O	418m SE	Unspecified Works	1992	726411
O	418m SE	Unspecified Works	1987	784167
O	419m SE	Cotton Mill	1851	644474
O	421m SE	Leather Works	1909	751143



ID	Location	Land use	Dates present	Group ID
O	423m SE	Leather Works	1949	780460
O	424m SE	Unspecified Works	1968	718291
O	424m SE	Unspecified Works	1975	774525
M	427m SW	Constabulary Station	1851	644971
M	427m W	Cotton Mill	1851	739309
10	431m S	Cotton Mill	1851	644471
P	432m SE	Refuse Heap	1851	677954
Q	438m E	Sand Pit	1928	721471
11	438m S	Cotton Mill	1851	644472
N	440m NW	Unspecified Disused Mill	1949	675745
Q	440m E	Sand Pit	1938 - 1949	730921
R	446m SE	Sand Pits	1851	664408
R	446m SE	Unspecified Mills	1890	757084
M	453m W	Unspecified Mill	1938	726316
N	454m NW	Unspecified Mill	1975	732392
12	458m SE	Unspecified Mills	1938	753816
N	458m NW	Unspecified Mill	1987 - 1992	718190
O	461m SE	Tannery	1987 - 1992	726106
N	461m NW	Unspecified Mill	1928 - 1938	770257
13	465m NE	Colliery	1851	645259
N	468m NW	Unspecified Mill	1968	718789
O	469m SE	Leather Works	1890	752449
M	471m W	Unspecified Mill	1928	735564
U	471m E	Unspecified Heap	1851	650921
O	472m SE	Vale Mill	1851	653298
M	476m W	Unspecified Commercial/Industrial	1851	643122
N	480m NW	Cotton Mill	1890 - 1908	709901
M	481m W	Unspecified Mill	1987 - 1992	784892



ID	Location	Land use	Dates present	Group ID
R	482m SE	Chimney	1851	684516
U	487m E	Coal Pit	1851	654364
M	488m W	Cotton Mill	1851	773813
M	490m W	Unspecified Tank	1949	752596
M	490m W	Unspecified Tank	1968 - 1975	757093

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	36
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	113m SW	Unspecified Tank	1929 - 1937	94398
D	132m SE	Unspecified Tank	1937	84255
D	162m SE	Tanks	1956 - 1985	97823
I	219m NE	Unspecified Tank	1937	84254
I	224m NE	Unspecified Tank	1956 - 1985	94671
C	257m SE	Unspecified Tank	1890 - 1937	98153
G	268m S	Tanks	1930	87689
C	302m SE	Unspecified Tank	1956	102506
C	303m SE	Unspecified Tank	1956	97974
L	354m E	Unspecified Tank	1956 - 1968	102797
L	354m E	Unspecified Tank	1956	88867
7	369m S	Tanks	1910 - 1930	96425
L	377m E	Tanks	1990	102605



ID	Location	Land use	Dates present	Group ID
L	378m E	Tanks	1968 - 1992	102877
O	431m SE	Unspecified Tank	1890	84265
O	445m SE	Tanks	1991	100808
O	446m SE	Tanks	1956 - 1974	100380
O	447m SE	Tanks	1985	93097
O	453m SE	Unspecified Tank	1956 - 1991	93744
R	471m SE	Unspecified Tank	1956	89615
R	473m SE	Unspecified Tank	1929 - 1937	91906
V	476m S	Tanks	1974 - 1991	102272
V	480m S	Unspecified Tank	1956	89756
V	480m S	Unspecified Tank	1956	89856
O	481m SE	Tanks	1910	87691
O	491m SE	Unspecified Tank	1967 - 1985	94372
R	491m SE	Unspecified Tank	1890	84268
V	492m SE	Tanks	1974	87722
V	493m SE	Unspecified Tank	1991	84264
O	494m SE	Unspecified Tank	1890 - 1910	99566
O	496m SE	Unspecified Tank	1985 - 1991	93180
O	496m SE	Unspecified Tank	1956	101238
O	496m SE	Unspecified Tank	1967	102754
O	496m SE	Unspecified Tank	1974	103735
O	496m SE	Unspecified Tank	1956	89753
O	496m SE	Unspecified Tank	1968	103236

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m	15
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	176m SW	Electricity Substation	1956 - 1999	50473
C	224m SE	Electricity Substation	1985	46698
C	227m SE	Electricity Substation	1974 - 1991	51680
2	228m NW	Electricity Substation	1973 - 1990	47299
K	278m E	Electricity Substation	1956 - 1968	54745
K	278m E	Electricity Substation	1956	55358
3	308m SE	Electricity Substation	1985 - 1991	49342
5	365m S	Electricity Substation	1989 - 1999	48507
L	394m E	Electricity Substation	1968 - 1992	50460
M	450m W	Electricity Substation	1956 - 1973	50672
M	470m W	Electricity Substation	1996 - 1999	56542
M	471m W	Electricity Substation	1990 - 1995	55940
S	491m S	Electricity Substation	1981 - 1999	46796
R	495m SE	Electricity Substation	1956 - 1991	49472
R	495m SE	Electricity Substation	1968	53172

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or

succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	19
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
G	196m SE	Garage	1991	16022
H	208m W	Garage	1956 - 1985	19683
H	208m W	Garage	1956 - 1990	18666
G	227m S	Garage	1989	15169
G	232m S	Garage	1968 - 1981	17540
G	236m SE	Garage	1967 - 1974	19033
G	250m S	Garage	1968 - 1999	19066
G	250m S	Garage	1967	15390
N	433m NW	Garage	1973	16503
N	441m NW	Garage	1985	16470
N	444m NW	Motor Body Repair Works	1973	14724
N	458m NW	Garage	1990	16150
S	460m S	Garage	1967	18818
T	465m S	Garage	1967	17750
T	466m S	Garage	1999	16673
T	476m S	Garage	1981 - 1989	18900
T	476m S	Garage	1956	18597
T	477m S	Garage	1968	15821



ID	Location	Land use	Dates present	Group ID
S	481m S	Garage	1956 - 1968	19661

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

116

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
A	On site	Refuse Heap	1909	677990
A	0m NW	Unspecified Ground Workings	1938	648062
B	68m SW	Unspecified Mill	1928	768377



ID	Location	Land Use	Date	Group ID
B	69m SW	Unspecified Disused Mill	1890	675746
B	70m SW	Unspecified Mill	1909	718051
B	76m SW	Unspecified Ground Workings	1968	648067
C	98m SE	Brick Yard	1851	681784
C	106m SE	Unspecified Mill	1890	657011
C	122m SE	Ground Workings	1851	681864
D	125m S	Unspecified Mill	1987	715409
D	125m S	Unspecified Mill	1975	715409
D	128m S	Unspecified Mill	1949	695567
D	128m S	Unspecified Commercial/Industrial	1968	643272
D	130m S	Unspecified Mill	1928	768378
D	134m S	Unspecified Mill	1992	787885
D	134m S	Cotton Mill	1851	644456
B	138m SW	Cotton Mills	1890	659319
E	139m E	Unspecified Mills	1928	765674
F	145m S	Unspecified Works	1987	679035
D	167m S	Unspecified Mill	1938	767123
D	170m S	Unspecified Mill	1909	771419
B	181m SW	Unspecified Mill	1992	744725
B	181m SW	Unspecified Mill	1987	744725
B	181m SW	Unspecified Mill	1975	744725
B	181m SW	Unspecified Mill	1949	744152
B	181m SW	Unspecified Commercial/Industrial	1968	643271
E	184m E	Unspecified Mill	1890	701813
B	185m SW	Unspecified Mill	1938	787576
F	186m S	Refuse Heap	1909	677989
B	187m SW	Unspecified Mill	1928	752340
B	187m SW	Unspecified Mill	1909	752340



ID	Location	Land Use	Date	Group ID
1	188m NE	Unspecified Ground Workings	1992	648063
E	190m E	Unspecified Mills	1909	768510
E	190m E	Unspecified Mills	1992	704476
E	190m E	Unspecified Mills	1987	704476
E	190m E	Unspecified Mills	1975	704476
E	190m E	Unspecified Mill	1949	730399
E	190m E	Unspecified Mills	1968	704476
E	191m E	Unspecified Mill	1938	708740
F	193m S	Unspecified Ground Workings	1928	648068
D	195m SW	Unspecified Mill	1928	790270
E	232m E	Unspecified Ground Workings	1890	648069
J	239m NE	Unspecified Ground Workings	1992	737153
J	239m NE	Unspecified Ground Workings	1987	704425
J	239m NE	Unspecified Ground Workings	1975	704425
J	239m NE	Unspecified Ground Workings	1968	704425
J	304m NE	Unspecified Heap	1938	707764
J	304m NE	Unspecified Heap	1928	707764
J	306m NE	Unspecified Heap	1949	758657
M	312m E	Unspecified Ground Workings	1928	733555
J	352m NE	Refuse Heap	1987	772997
J	352m NE	Refuse Heap	1975	772997
2	359m SE	Unspecified Pit	1890	690988
N	361m W	Cotton Mills	1890	659320
O	362m NW	Unspecified Works	1968	679036
3	366m SE	Sand Pits	1851	664409
M	374m E	Chimney	1992	717336
M	374m E	Chimney	1987	717336
M	374m E	Chimney	1975	717336



ID	Location	Land Use	Date	Group ID
M	374m E	Chimney	1968	717336
R	376m SE	Leather Works	1928	756615
R	377m SE	Leather Works	1938	756615
M	377m E	Unspecified Ground Workings	1992	703815
M	377m E	Unspecified Ground Workings	1987	703815
4	387m SW	Grave Yard	1851	668134
M	389m E	Unspecified Pit	1992	695481
M	389m E	Unspecified Pit	1987	695481
M	389m E	Unspecified Pit	1975	695481
M	389m E	Unspecified Pit	1968	695481
S	395m SE	Rope Walk	1851	641249
N	406m W	Unspecified Mill	1949	737659
5	415m S	Unspecified Commercial/Industrial	1851	643273
R	418m SE	Unspecified Works	1992	726411
R	418m SE	Unspecified Works	1987	784167
R	419m SE	Cotton Mill	1851	644474
R	421m SE	Leather Works	1909	751143
R	423m SE	Leather Works	1949	780460
R	424m SE	Unspecified Works	1975	774525
R	424m SE	Unspecified Works	1968	718291
N	427m SW	Constabulary Station	1851	644971
N	427m W	Cotton Mill	1851	739309
6	431m S	Cotton Mill	1851	644471
S	432m SE	Refuse Heap	1851	677954
T	438m E	Sand Pit	1928	721471
7	438m S	Cotton Mill	1851	644472
O	440m NW	Unspecified Disused Mill	1949	675745
T	440m E	Sand Pit	1938	730921



ID	Location	Land Use	Date	Group ID
T	441m E	Sand Pit	1949	730921
U	446m SE	Sand Pits	1851	664408
U	446m SE	Unspecified Mills	1890	757084
N	453m W	Unspecified Mill	1938	726316
O	454m NW	Unspecified Mill	1975	732392
8	458m SE	Unspecified Mills	1938	753816
O	458m NW	Unspecified Mill	1992	718190
O	458m NW	Unspecified Mill	1987	718190
R	461m SE	Tannery	1992	726106
R	461m SE	Tannery	1987	726106
O	461m NW	Unspecified Mill	1938	770257
O	461m NW	Unspecified Mill	1928	770257
9	465m NE	Colliery	1851	645259
O	468m NW	Unspecified Mill	1968	718789
R	469m SE	Leather Works	1890	752449
N	471m W	Unspecified Mill	1928	735564
X	471m E	Unspecified Heap	1851	650921
R	472m SE	Vale Mill	1851	653298
N	476m W	Unspecified Commercial/Industrial	1851	643122
O	480m NW	Cotton Mill	1890	709901
N	481m W	Unspecified Mill	1992	784892
N	481m W	Unspecified Mill	1987	784892
U	482m SE	Chimney	1851	684516
O	485m NW	Cotton Mill	1908	709901
X	487m E	Coal Pit	1851	654364
N	488m W	Cotton Mill	1851	773813
N	490m W	Unspecified Tank	1975	757093
N	490m W	Unspecified Tank	1949	752596



ID	Location	Land Use	Date	Group ID
N	490m W	Unspecified Tank	1968	757093

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	70
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
B	113m SW	Unspecified Tank	1929	94398
B	113m SW	Unspecified Tank	1937	94398
C	132m SE	Unspecified Tank	1937	84255
C	162m SE	Tanks	1985	97823
C	162m SE	Tanks	1967	97823
C	162m SE	Tanks	1956	97823
C	162m SE	Tanks	1974	97823
C	162m SE	Tanks	1956	97823
C	162m SE	Tanks	1968	97823
H	219m NE	Unspecified Tank	1937	84254
H	224m NE	Unspecified Tank	1956	94671
H	224m NE	Unspecified Tank	1973	94671
H	224m NE	Unspecified Tank	1985	94671
H	225m NE	Unspecified Tank	1956	94671
C	257m SE	Unspecified Tank	1890	98153
C	257m SE	Unspecified Tank	1910	98153
C	257m SE	Unspecified Tank	1929	98153
C	257m SE	Unspecified Tank	1937	98153
F	268m S	Tanks	1930	87689



ID	Location	Land Use	Date	Group ID
C	302m SE	Unspecified Tank	1956	102506
C	303m SE	Unspecified Tank	1956	97974
M	354m E	Unspecified Tank	1968	102797
M	354m E	Unspecified Tank	1956	102797
M	354m E	Unspecified Tank	1956	88867
Q	369m S	Tanks	1910	96425
Q	369m S	Tanks	1930	96425
M	377m E	Tanks	1990	102605
M	378m E	Tanks	1968	102877
M	379m E	Tanks	1992	102877
R	431m SE	Unspecified Tank	1890	84265
R	445m SE	Tanks	1991	100808
R	446m SE	Tanks	1956	100380
R	446m SE	Tanks	1968	100380
R	446m SE	Tanks	1967	100380
R	446m SE	Tanks	1956	100380
R	446m SE	Tanks	1974	100380
R	447m SE	Tanks	1985	93097
R	453m SE	Unspecified Tank	1956	93744
R	453m SE	Unspecified Tank	1968	93744
R	453m SE	Unspecified Tank	1967	93744
R	453m SE	Unspecified Tank	1956	93744
R	453m SE	Unspecified Tank	1974	93744
R	453m SE	Unspecified Tank	1985	93744
R	453m SE	Unspecified Tank	1991	93744
U	471m SE	Unspecified Tank	1956	89615
U	472m SE	Unspecified Tank	1956	89615
U	473m SE	Unspecified Tank	1929	91906



ID	Location	Land Use	Date	Group ID
U	473m SE	Unspecified Tank	1937	91906
Y	476m S	Tanks	1974	102272
Y	476m S	Tanks	1985	102272
Y	476m S	Tanks	1991	102272
Y	480m S	Unspecified Tank	1956	89756
Y	480m S	Unspecified Tank	1956	89856
R	481m SE	Tanks	1910	87691
R	491m SE	Unspecified Tank	1968	94372
U	491m SE	Unspecified Tank	1890	84268
R	492m SE	Unspecified Tank	1985	94372
R	492m SE	Unspecified Tank	1967	94372
R	492m SE	Unspecified Tank	1974	94372
Y	492m SE	Tanks	1974	87722
Y	493m SE	Unspecified Tank	1991	84264
R	494m SE	Unspecified Tank	1890	99566
R	494m SE	Unspecified Tank	1910	99566
R	496m SE	Unspecified Tank	1985	93180
R	496m SE	Unspecified Tank	1991	93180
R	496m SE	Unspecified Tank	1967	102754
R	496m SE	Unspecified Tank	1956	101238
R	496m SE	Unspecified Tank	1974	103735
R	496m SE	Unspecified Tank	1956	89753
R	496m SE	Unspecified Tank	1968	103236

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

42

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
B	176m SW	Electricity Substation	1999	50473
B	177m SW	Electricity Substation	1956	50473
B	177m SW	Electricity Substation	1967	50473
B	177m SW	Electricity Substation	1956	50473
B	177m SW	Electricity Substation	1956	50473
B	177m SW	Electricity Substation	1989	50473
B	177m SW	Electricity Substation	1968	50473
B	177m SW	Electricity Substation	1981	50473
C	224m SE	Electricity Substation	1985	46698
C	227m SE	Electricity Substation	1991	51680
I	228m NW	Electricity Substation	1985	47299
C	228m SE	Electricity Substation	1974	51680
I	229m NW	Electricity Substation	1973	47299
I	229m NW	Electricity Substation	1990	47299
K	278m E	Electricity Substation	1968	54745
K	278m E	Electricity Substation	1956	54745
K	278m E	Electricity Substation	1956	55358
L	308m SE	Electricity Substation	1985	49342
L	308m SE	Electricity Substation	1991	49342
P	365m S	Electricity Substation	1999	48507
P	365m S	Electricity Substation	1989	48507
M	394m E	Electricity Substation	1990	50460
M	395m E	Electricity Substation	1968	50460



ID	Location	Land Use	Date	Group ID
M	396m E	Electricity Substation	1992	50460
N	450m W	Electricity Substation	1956	50672
N	450m W	Electricity Substation	1956	50672
N	450m W	Electricity Substation	1973	50672
N	470m W	Electricity Substation	1996	56542
N	470m W	Electricity Substation	1998	56542
N	470m W	Electricity Substation	1999	56542
N	471m W	Electricity Substation	1995	55940
N	471m W	Electricity Substation	1990	55940
V	491m S	Electricity Substation	1989	46796
V	492m S	Electricity Substation	1999	46796
V	492m S	Electricity Substation	1981	46796
U	495m SE	Electricity Substation	1956	49472
U	495m SE	Electricity Substation	1974	49472
U	495m SE	Electricity Substation	1967	49472
U	495m SE	Electricity Substation	1968	53172
U	495m SE	Electricity Substation	1985	49472
U	495m SE	Electricity Substation	1991	49472
U	496m SE	Electricity Substation	1956	49472

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

32

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
F	196m SE	Garage	1991	16022
G	208m W	Garage	1985	19683
G	208m W	Garage	1956	19683
G	208m W	Garage	1973	18666
G	208m W	Garage	1990	18666
G	209m W	Garage	1956	18666
F	227m S	Garage	1989	15169
F	232m S	Garage	1981	17540
F	235m SE	Garage	1968	17540
F	236m SE	Garage	1967	19033
F	236m SE	Garage	1974	19033
F	250m S	Garage	1968	19066
F	250m S	Garage	1967	15390
F	254m S	Garage	1999	19066
O	433m NW	Garage	1973	16503
O	441m NW	Garage	1985	16470
O	444m NW	Motor Body Repair Works	1973	14724
O	458m NW	Garage	1990	16150
V	460m S	Garage	1967	18818
V	460m S	Garage	1967	18818
W	465m S	Garage	1967	17750
W	465m S	Garage	1967	17750
W	466m S	Garage	1999	16673

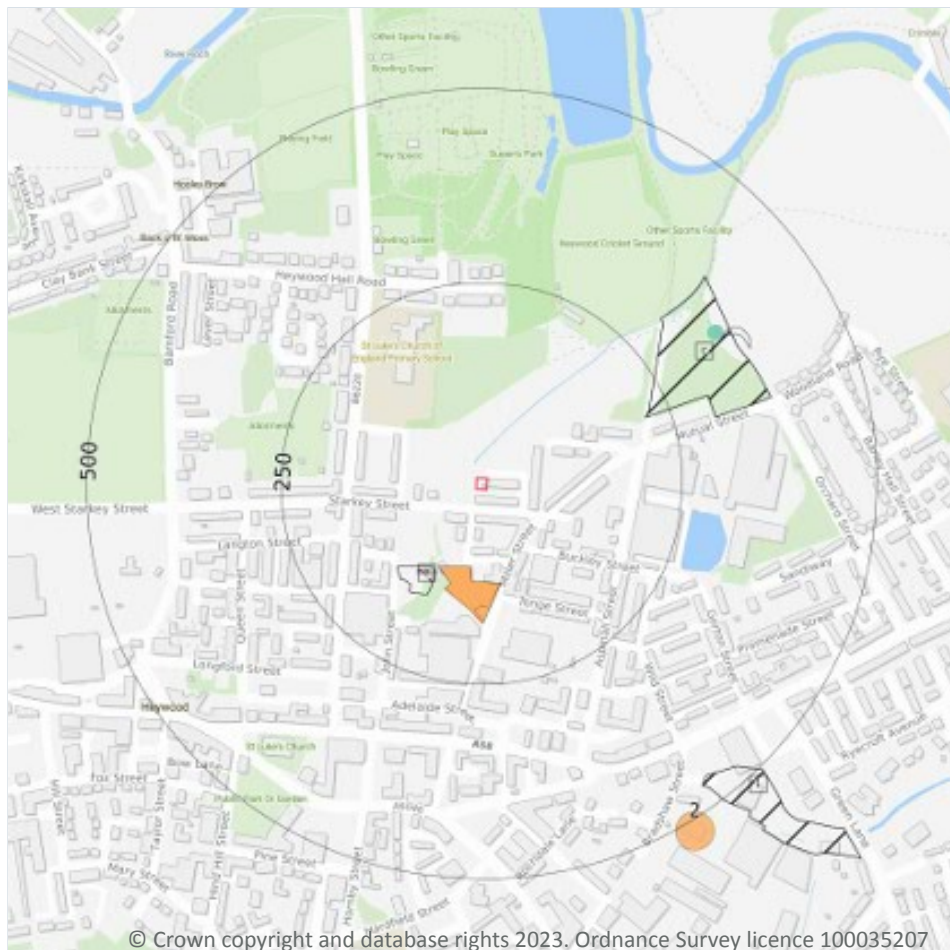


ID	Location	Land Use	Date	Group ID
W	476m S	Garage	1981	18900
W	476m S	Garage	1956	18597
W	476m S	Garage	1956	18597
W	477m S	Garage	1989	18900
W	477m S	Garage	1968	15821
V	481m S	Garage	1956	19661
V	481m S	Garage	1956	19661
V	481m S	Garage	1956	19661
V	481m S	Garage	1968	19661

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Historical waste sites

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

1

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Address	BGS Number	Risk	Waste Type
C	346m NE	Rear of Mutual St, Heywood, Lancs	135	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	3
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Site address	Source	Data type
B	115m SW	Refuse Tip	1967 mapping	Polygon
B	115m SW	Refuse Tip	1967 mapping	Polygon
C	352m NE	Refuse Tip	1967 mapping	Polygon

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	2
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
C	217m E	Site Address: Mutual Street, Heywood Licence Holder Address: -	Waste Licence: Yes Site Reference: D053, RD/LIC/323/83 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/05/1984 Licence Surrender: -	Operator: Mutual Mills Limited Licence Holder: Mutual Mills Limited First Recorded 31/12/1882 Last Recorded: 31/12/1986

ID	Location	Details		
1	463m SE	Site Address: Roe Acre Mill, Rochdale Road East, Heywood, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D121, 0786 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Rochdale Canal Company Licence Holder: Roe Acre Dye and Finishing Company Limited First Recorded 01/05/1972 Last Recorded: 31/08/1992

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	4
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Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Address	Further Details	Date
A	100m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1999
A	100m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1999
A	100m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
2	488m SE	Site Address: Silvester House, Bradshaw Street, Roe Acre Tannery, HEYWOOD, Greater Manchester, OL10 1PN	Type of Site: Recycling Centre (Conversion) Planning application reference: 08/D50670 Description: Scheme comprises change of use from industrial yard/tannery to waste recycling centre. An application (ref: 08/D50670) for detailed planning permission was granted by Rochdale B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	21/02/2009

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

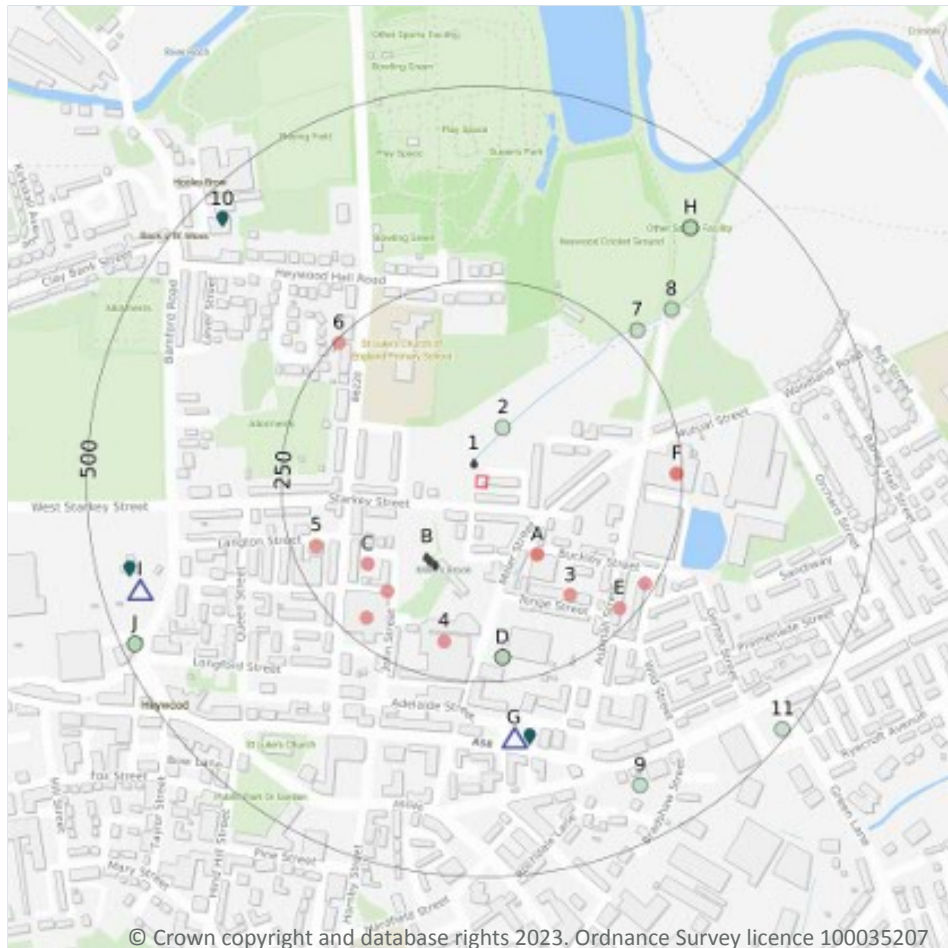
0

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	Activity	Category
A	108m SE	Frank Blakeley & Son Ltd	Poor Peg Mill, Buckley Street, Heywood, Greater Manchester, OL10 4HZ	General Construction Supplies	Industrial Products
A	108m SE	Blakeley Design & Press	Poor Peg Mill, Buckley Street, Heywood, Greater Manchester, OL10 4HZ	Textiles, Fabrics, Silk and Machinery	Industrial Products



ID	Location	Company	Address	Activity	Category
C	171m SW	1st Floor Flooring	5, Millers Brook Close, Heywood, Greater Manchester, OL10 4HS	Construction Completion Services	Construction Services
3	175m SE	Iseeu CCTV Security	23, Tonge Street, Heywood, Greater Manchester, OL10 4HU	Electronic Equipment	Industrial Products
C	176m SW	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
4	202m S	Robert Scott	Millers Brook Mill, Miller Street, Heywood, Greater Manchester, OL10 4HJ	Cleaning Equipment and Supplies	Industrial Products
5	219m W	Park Garage	Langton Street, Heywood, Greater Manchester, OL10 4LH	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	219m SW	Quarry Manufacturing	Willow Street Mill, Willow Street, Heywood, Greater Manchester, OL10 4LJ	Textiles, Fabrics, Silk and Machinery	Industrial Products
E	230m SE	F M S	64, Aspinall Street, Heywood, Greater Manchester, OL10 4HN	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	238m SE	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
F	243m E	Mutual Mills Ltd	Aspinall Street, Heywood, Greater Manchester, OL10 4HP	Container and Storage	Transport, Storage and Delivery
F	243m E	Adelaide Engineering	Aspinall Street, Heywood, Greater Manchester, OL10 4HP	Industrial Engineers	Engineering Services
6	246m NW	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	LPG	Status
G	323m S	ESSO	York Street, Adelaide Street, Heywood, Greater Manchester, OL10 4HQ	No	Open
I	452m W	MORRISONS	Bamford Road, Heywood, Greater Manchester, OL10 4PU	No	Open



This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.



4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

3

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Address	Details	
G	324m S	Tesco Petrol Station, Roe Acre Service Station, York Street, Heywood, Lancashire, OL10 4HQ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	457m W	Morrisons Petrol Station, 2 Dawson Street, Heywood, Lancashire, OL10 4ND	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



ID	Location	Address	Details	
10	464m NW	S. Carlick & Sons Ltd, River Street, Heywood, Lancashire, OL10 4AB	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	4
----------------------------	----------

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Address	Details	
1	16m NW	JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993768 Permit Version: 1 Receiving Water: MILLERS BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 20/01/2006 Effective Date: 20/01/2006 Revocation Date: 03/06/2018
B	110m SW	JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0034 Permit Version: 1 Receiving Water: MILLERS BROOK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 01/01/1995 Effective Date: 01/01/1995 Revocation Date: 19/01/2006
B	111m SW	JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993768 Permit Version: 2 Receiving Water: MILLERS BROOK VIA SWS	Status: VARIED UNDER EPR 2010 Issue date: 04/06/2018 Effective Date: 04/06/2018 Revocation Date: -

ID	Location	Address	Details	
B	113m SW	HEYWOOD SSO, JOHN STREET/WILLOW STREET, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950219 Permit Version: 1 Receiving Water: MILLERS BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 31/07/1981 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

13

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Details	
2	65m N	Incident Date: 16/07/2002 Incident Identification: 91999 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	219m S	Incident Date: 18/01/2002 Incident Identification: 53309 Pollutant: Inert Materials and Wastes:Specific Waste Materials Pollutant Description: Construction and Demolition Materials and Wastes:Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
D	219m S	Incident Date: 18/01/2002 Incident Identification: 53309 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
D	219m S	Incident Date: 18/01/2002 Incident Identification: 53309 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
7	268m NE	Incident Date: 08/03/2001 Incident Identification: 97 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
8	318m NE	Incident Date: 22/07/2002 Incident Identification: 93458 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	412m NE	Incident Date: 15/05/2001 Incident Identification: 5583 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	412m NE	Incident Date: 15/05/2001 Incident Identification: 5583 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
H	412m NE	Incident Date: 15/05/2001 Incident Identification: 5583 Pollutant: General Biodegradable Materials and Wastes: Specific Waste Materials Pollutant Description: Vegetable Cuttings and Deposits: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
9	430m SE	Incident Date: 29/01/2003 Incident Identification: 133895 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	482m SW	Incident Date: 19/03/2002 Incident Identification: 64960 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	482m SW	Incident Date: 08/03/2002 Incident Identification: 62617 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11	490m SE	Incident Date: 09/01/2002 Incident Identification: 51428 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.



This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

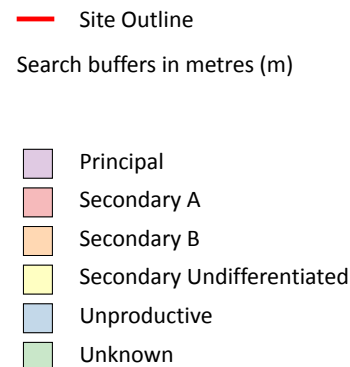
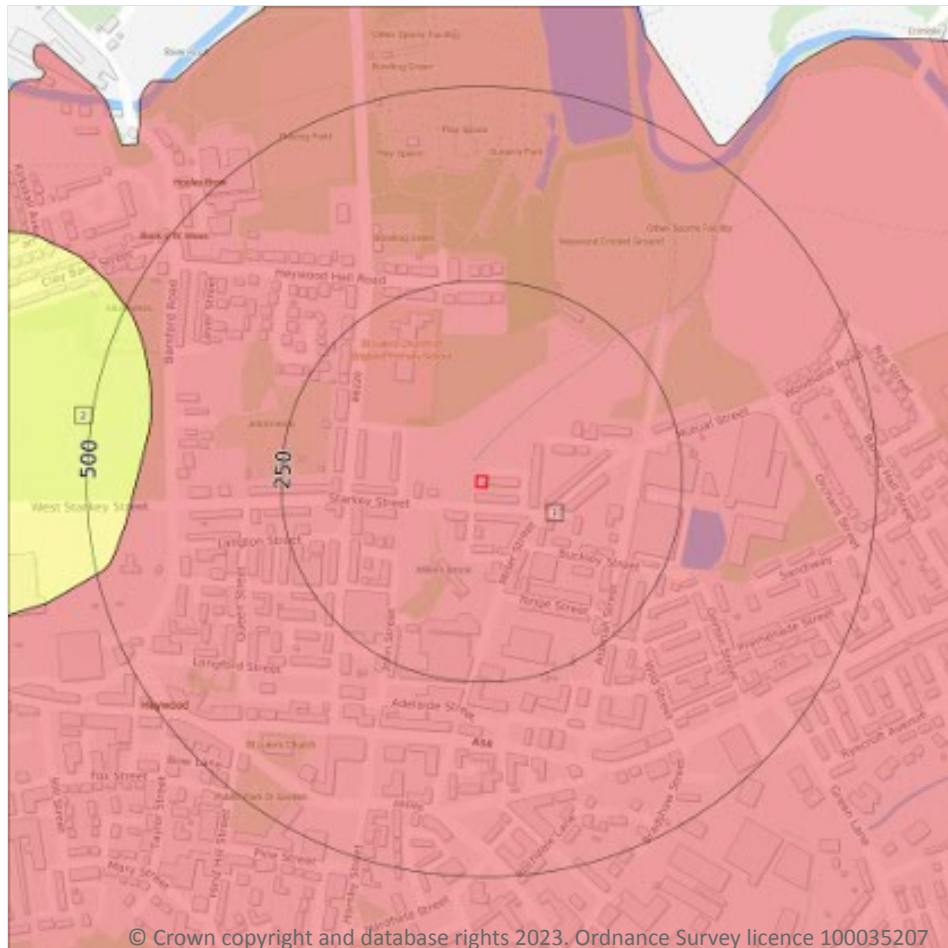
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

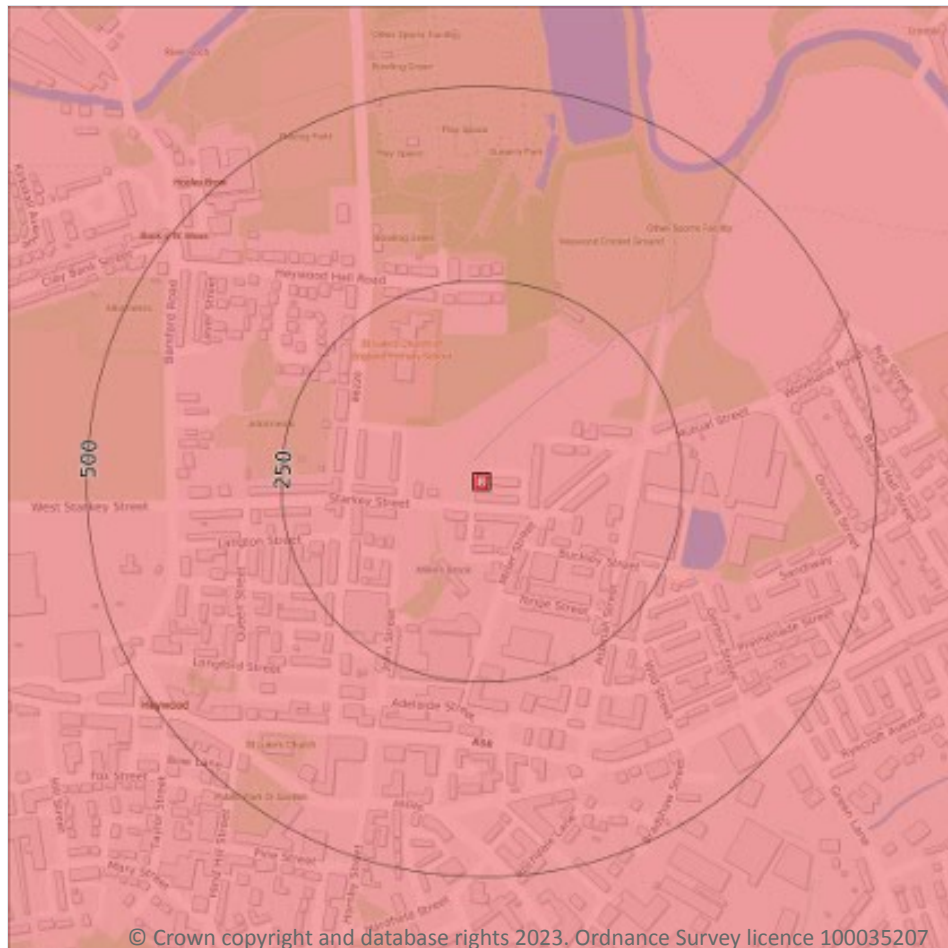
Features are displayed on the Hydrogeology map on **page 48**

ID	Location	Designation	Description
1	On site	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
2	424m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

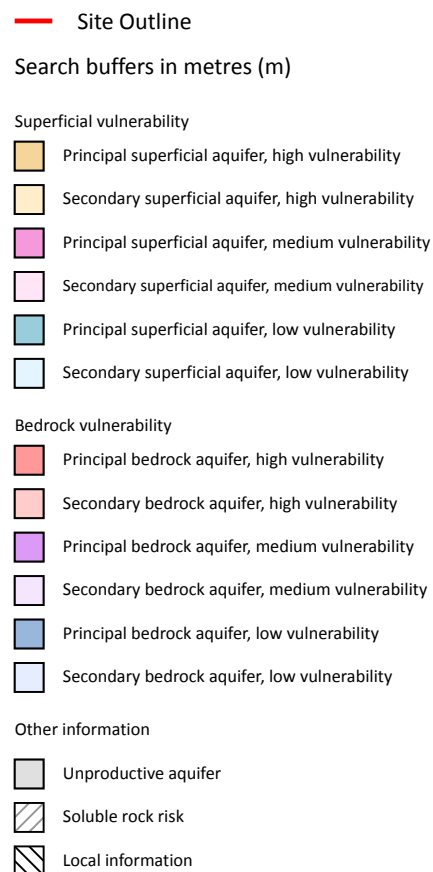
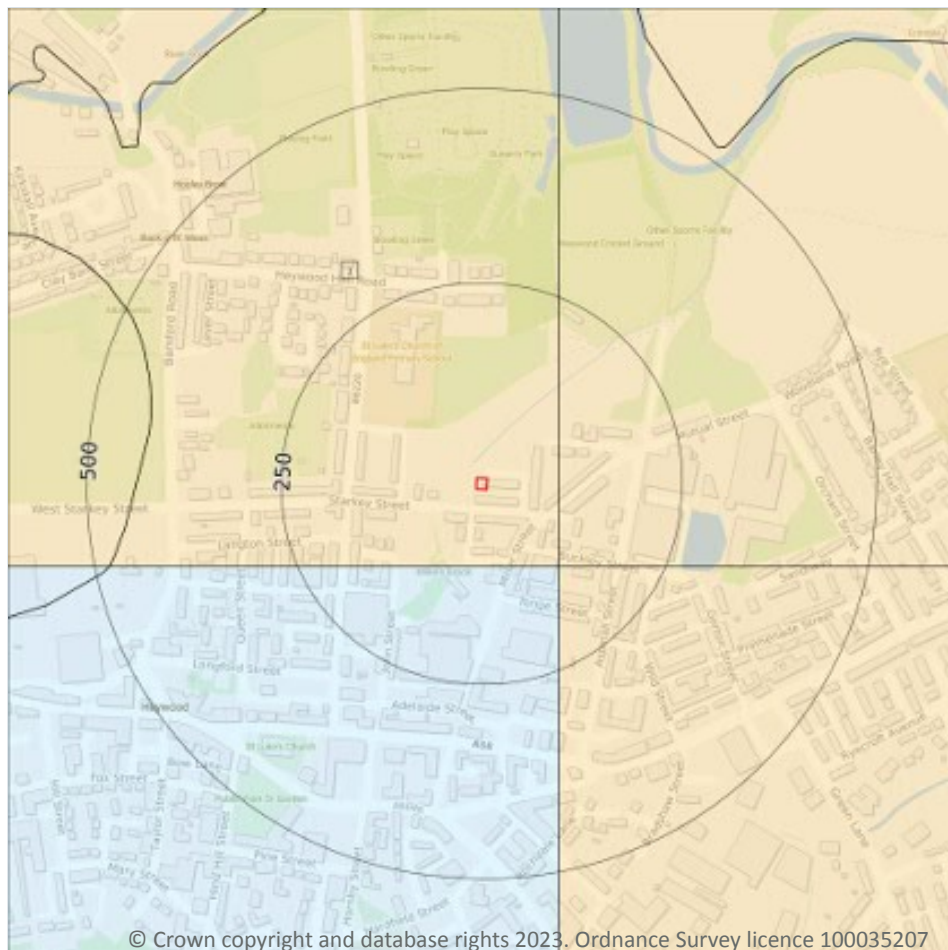
Features are displayed on the Bedrock aquifer map on **page 50**

ID	Location	Designation	Description
1	On site	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 51**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

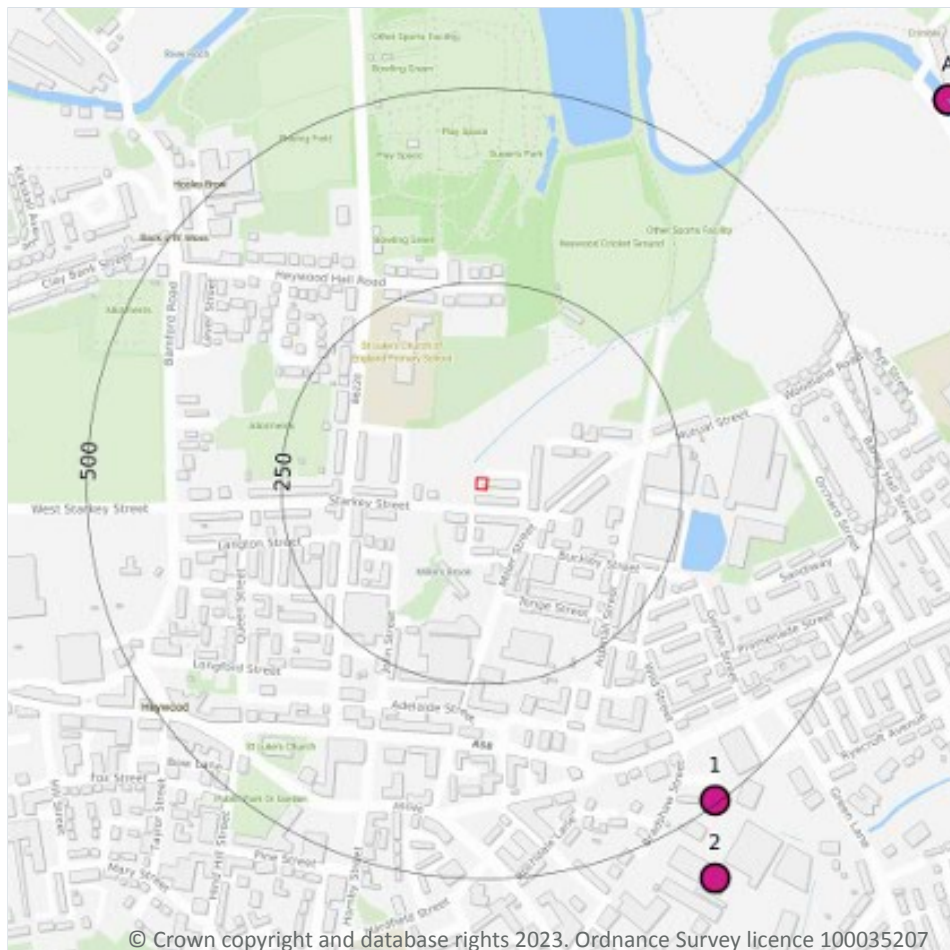
5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

17

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 53**

ID	Location	Details	
1	495m SE	Status: Historical Licence No: 2569002082 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD Data Type: Point Name: G. S. COLD STORAGE AND WAREHOUSING LTD. Easting: 386200 Northing: 410700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2000 Version End Date: -
2	578m SE	Status: Historical Licence No: 2569002082 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD, L97 Data Type: Point Name: G. S. COLD STORAGE AND WAREHOUSING LTD. Easting: 386200 Northing: 410600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2000 Version End Date: -
A	766m NE	Status: Historical Licence No: 2569002037 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD" Data Type: Point Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1993 Version End Date: -
A	766m NE	Status: Historical Licence No: 2569002037 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD" Data Type: Point Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1993 Version End Date: -



ID	Location	Details	
A	766m NE	Status: Historical Licence No: 2569002037 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD Data Type: Point Name: K.SHAW & COMPANY LTD. Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/2002 Version End Date: -
A	766m NE	Status: Historical Licence No: 2569002037 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD Data Type: Point Name: K.SHAW & COMPANY LTD. Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/2002 Version End Date: -
-	1161m SE	Status: Historical Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD" Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -
-	1161m SE	Status: Historical Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -



ID	Location	Details	
-	1161m SE	Status: Active Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m ³): 79,645.92 Max Daily Volume (m ³): 218.21 Original Application No: 0203 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -
-	1198m SE	Status: Historical Licence No: 2569002257 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT GREEN LANE, HEYWOOD Data Type: Point Name: TARMAC TOPMIX LTD Easting: 386700 Northing: 410200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/06/1993 Expiry Date: - Issue No: 100 Version Start Date: 28/06/1993 Version End Date: -
-	1289m N	Status: Historical Licence No: 2569002217 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BUTTERWORTH FOLD FARM, BAMFORD, ROCHDALE" Data Type: Point Name: JAMES SWALLOW LTD Easting: 385800 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 22/09/1980 Version End Date: -
-	1289m N	Status: Historical Licence No: 2569002217 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BUTTERWORTH FOLD FARM, BAMFORD, ROCHDALE Data Type: Point Name: JAMES SWALLOW LTD Easting: 385800 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 22/09/1980 Version End Date: -

ID	Location	Details	
-	1289m N	Status: Active Licence No: 2569002217 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BUTTERWORTH FOLD FARM BAMFORD ROCHDALE Data Type: Point Name: JAMES SWALLOW LTD Easting: 385800 Northing: 412400	Annual Volume (m ³): 33,185.80 Max Daily Volume (m ³): 90.92 Original Application No: 2563 Original Start Date: 22/09/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1908m N	Status: Historical Licence No: 2569002180 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE" Data Type: Point Name: BLACKBOROUGH Easting: 385600 Northing: 413000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1966 Version End Date: -
-	1908m N	Status: Historical Licence No: 2569002183 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE" Data Type: Point Name: MILLS Easting: 385600 Northing: 413000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1966 Version End Date: -
-	1908m N	Status: Historical Licence No: 2569002180 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE Data Type: Point Name: BLACKBOROUGH Easting: 385600 Northing: 413000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1966 Version End Date: -

ID	Location	Details	
-	1908m N	Status: Historical Licence No: 2569002183 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE Data Type: Point Name: MILLS Easting: 385600 Northing: 413000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1966 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	12
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 53**

ID	Location	Details	
B	766m NE	Status: Historical Licence No: 2569002270 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEYWOOD Data Type: Line Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386620 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 17/06/1999 Version End Date: -
B	766m NE	Status: Historical Licence No: 2569002270 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEYWOOD Data Type: Line Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386620 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 17/06/1999 Version End Date: -



ID	Location	Details	
-	1237m NW	Status: Historical Licence No: 2569002255 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD 112 Data Type: Point Name: J R CROMPTON LTD Easting: 385360 Northing: 412230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/02/1993 Expiry Date: - Issue No: 101 Version Start Date: 10/10/2000 Version End Date: -
-	1237m NW	Status: Historical Licence No: 2569002255 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD \$112" Data Type: Point Name: J R CROMPTON LTD Easting: 385360 Northing: 412230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/02/1993 Expiry Date: - Issue No: 101 Version Start Date: 10/10/2000 Version End Date: -
-	1237m NW	Status: Historical Licence No: 2569002255 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD \$112 Data Type: Point Name: J R CROMPTON LTD Easting: 385360 Northing: 412230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/02/1993 Expiry Date: - Issue No: 101 Version Start Date: 10/10/2000 Version End Date: -
-	1237m NW	Status: Active Licence No: 2569002255 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD Data Type: Point Name: UNION PAPERTECH LIMITED Easting: 385360 Northing: 412230	Annual Volume (m ³): 2,136,620 Max Daily Volume (m ³): 6,219 Original Application No: 949 Original Start Date: 12/02/1993 Expiry Date: - Issue No: 102 Version Start Date: 13/08/2007 Version End Date: -



ID	Location	Details	
-	1416m NW	Status: Historical Licence No: 2569002166 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD" Data Type: Point Name: J R CROMPTON LTD Easting: 385300 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/2001 Version End Date: -
-	1416m NW	Status: Historical Licence No: 2569002166 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD" Data Type: Point Name: J R CROMPTON LTD Easting: 385300 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/2001 Version End Date: -
-	1416m NW	Status: Historical Licence No: 2569002166 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD Data Type: Point Name: J R CROMPTON LTD Easting: 385300 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/2001 Version End Date: -
-	1416m NW	Status: Historical Licence No: 2569002166 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD Data Type: Point Name: J R CROMPTON LTD Easting: 385300 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/2001 Version End Date: -



ID	Location	Details	
-	1416m NW	Status: Active Licence No: 2569002166 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: CHEESDEN BROOK AT SIMPSON CLOUGH HEYWOOD Data Type: Point Name: UNION PAPERTECH LIMITED Easting: 385300 Northing: 412400	Annual Volume (m ³): 2,136,620 Max Daily Volume (m ³): 12,437.86 Original Application No: 949 Original Start Date: 24/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 13/08/2007 Version End Date: -
-	1416m NW	Status: Active Licence No: 2569002166 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: CHEESDEN BROOK AT SIMPSON CLOUGH HEYWOOD Data Type: Point Name: UNION PAPERTECH LIMITED Easting: 385300 Northing: 412400	Annual Volume (m ³): 2,136,620 Max Daily Volume (m ³): 12,437.86 Original Application No: 949 Original Start Date: 24/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 13/08/2007 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ... WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

2

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	13m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Millers Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
3	19m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Millers Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	1
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Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 63**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
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The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Spodden to Irwell)	GB112069064600	Roch Irk Medlock	Irwell

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1
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Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.



Features are displayed on the Hydrology map on **page 63**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	20m N	River	Roch (Spodden to Irwell)	<u>GB112069064600</u>	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	<u>GB41202G101800</u>	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m**0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 66**

Location	Type
20m N	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

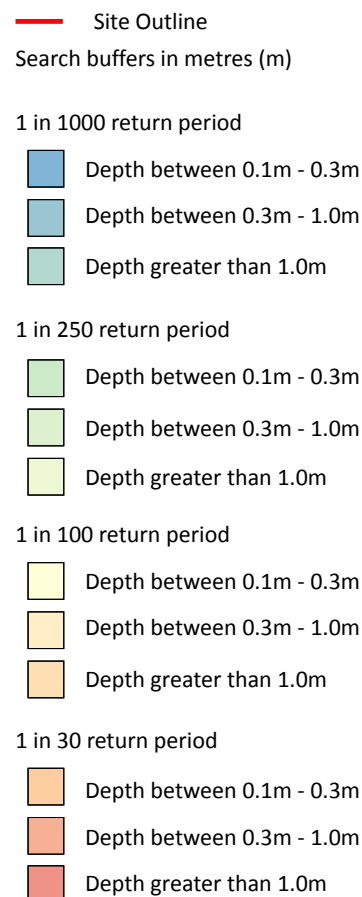
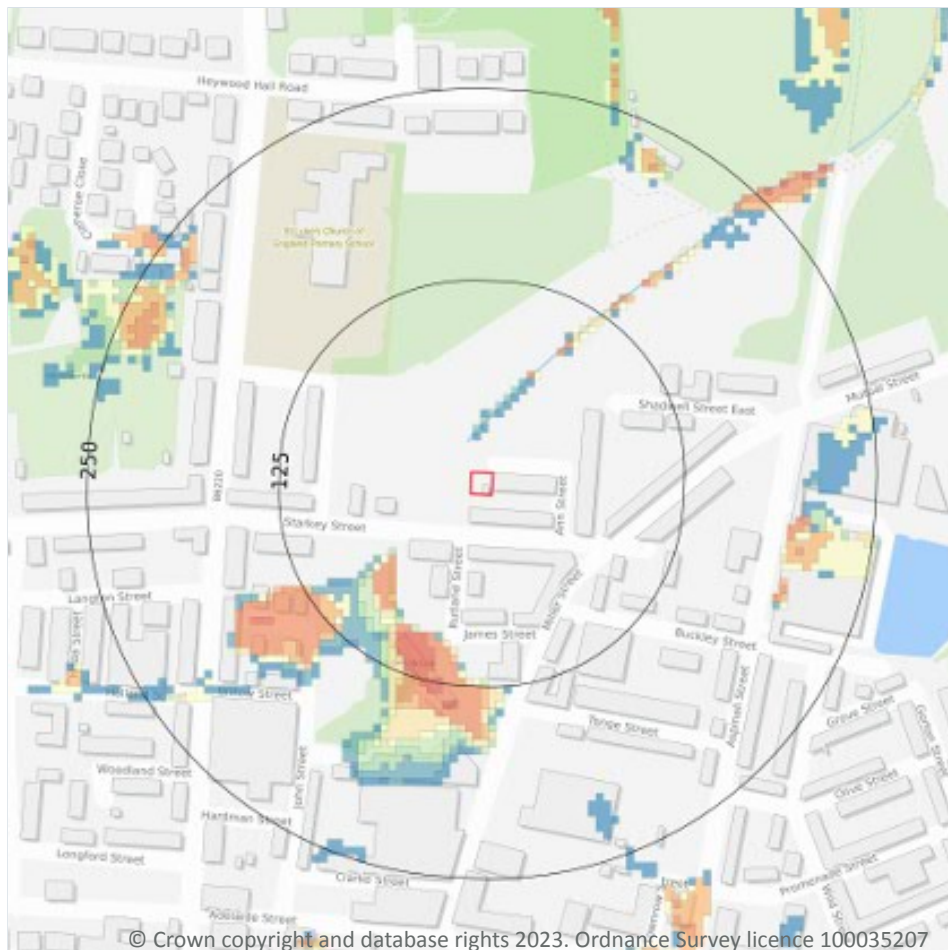
Features are displayed on the River and coastal flooding map on **page 66**

Location	Type
20m N	Zone 3 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 1000 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 70**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

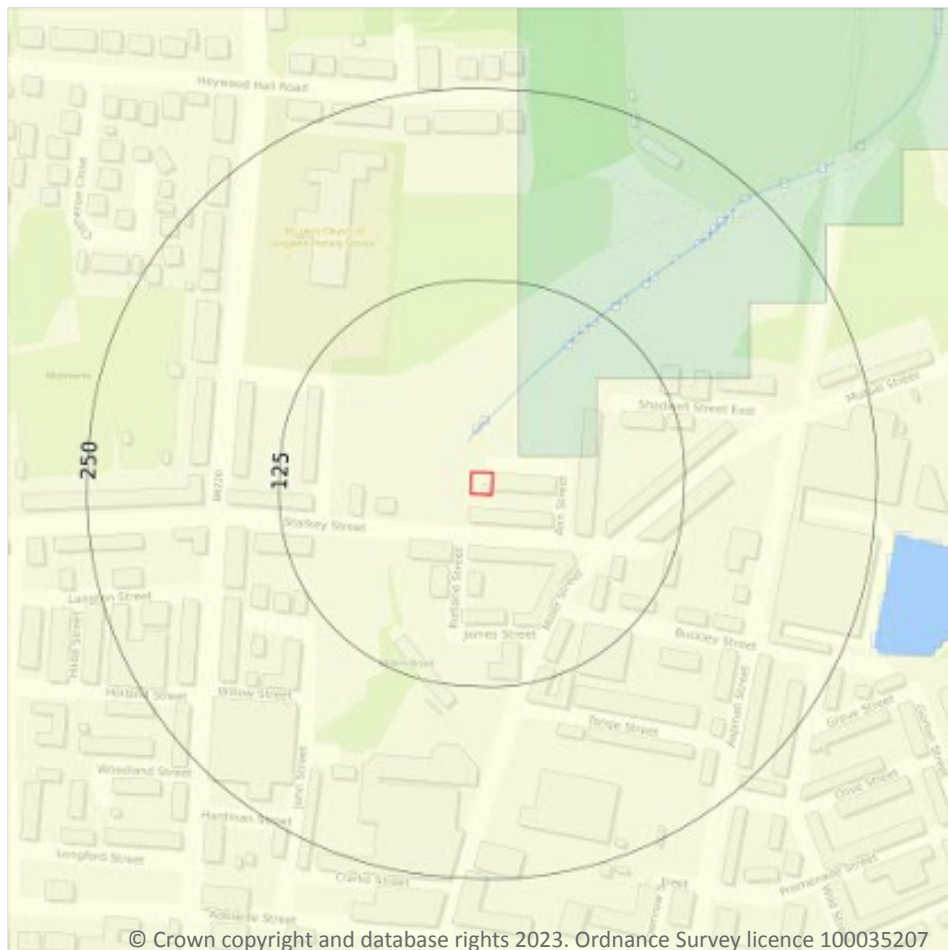
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

Moderate

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 72**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**11**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 73**

ID	Location	Name	Woodland Type
2	1015m NE	Unknown	Ancient & Semi-Natural Woodland
3	1161m NW	Simpson Clough Wood	Ancient & Semi-Natural Woodland
4	1212m NW	Jowkin Wood	Ancient & Semi-Natural Woodland
5	1245m W	Unknown	Ancient & Semi-Natural Woodland
6	1260m N	Jowkin Wood	Ancient & Semi-Natural Woodland
7	1508m NE	Springfield Wood	Ancient & Semi-Natural Woodland
-	1528m W	Unknown	Ancient & Semi-Natural Woodland
-	1575m NW	Jowkin Wood	Ancient & Semi-Natural Woodland
-	1702m NE	River Rock Wood (2)	Ancient & Semi-Natural Woodland
-	1847m NW	Jowkin Wood	Ancient & Semi-Natural Woodland
-	1853m N	Jowkin Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 73**

ID	Location	Name	Local Authority name
1	219m E	Merseyside and Greater Manchester	Rochdale

This data is sourced from the Ministry of Housing, Communities and Local Government.



10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.



10.16 Nitrate Vulnerable Zones

Records within 2000m

1

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1780m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 79**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

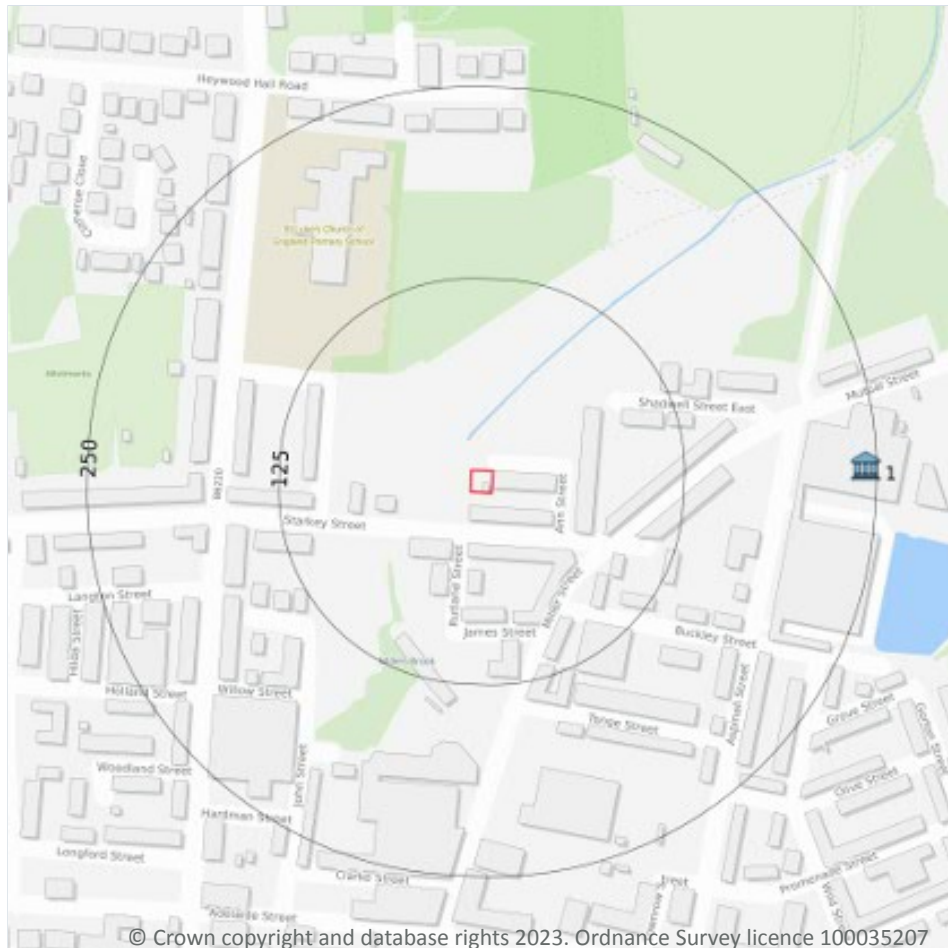
10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 81**

ID	Location	Name	Grade	Reference Number	Listed date
1	243m E	Mutual Mills, North Heywood, Rochdale, OL10	II	1268044	04/11/1996

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m**0**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m**0**

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

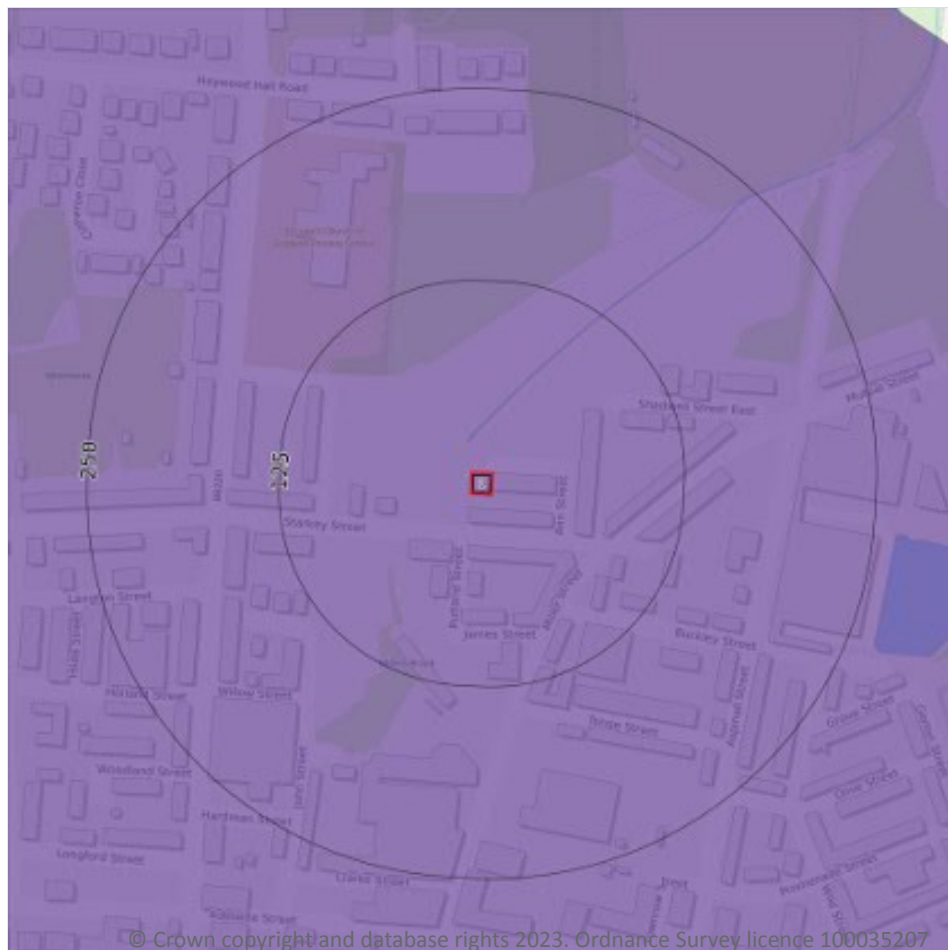
11.7 Registered Parks and Gardens

Records within 250m**0**

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 84**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m**0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m**0**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

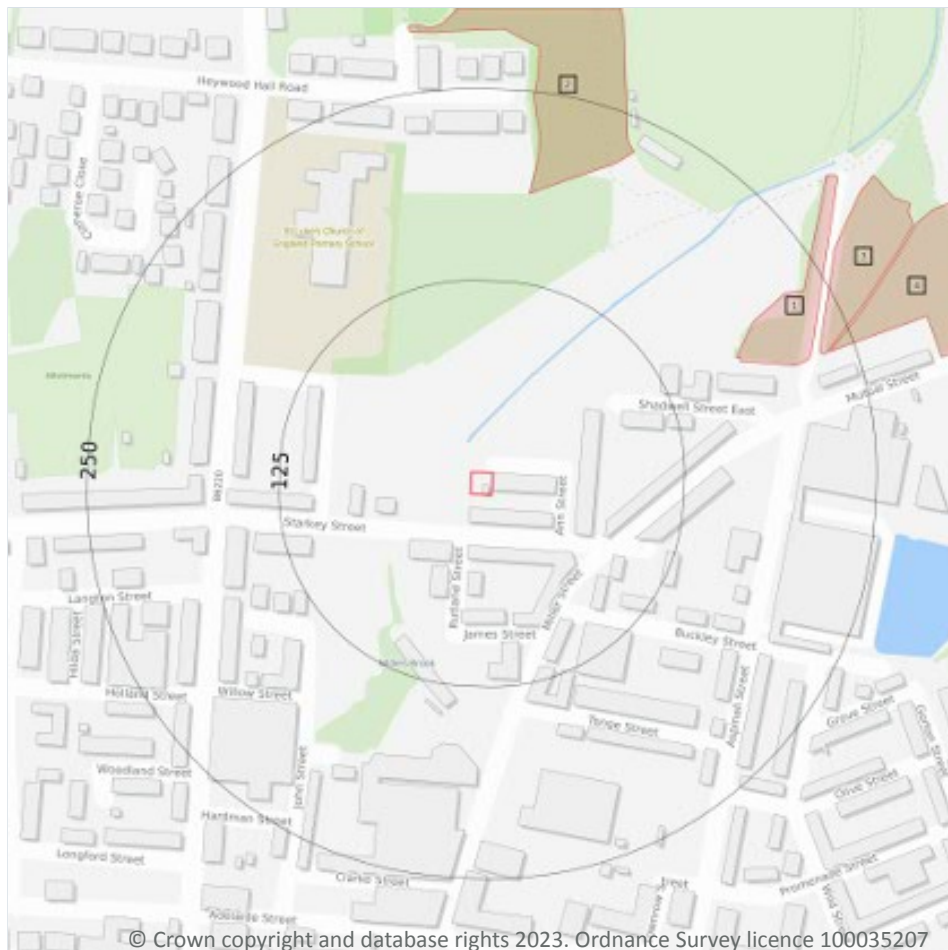
12.5 Countryside Stewardship Schemes

Records within 250m**0**

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

4

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 86**

ID	Location	Main Habitat	Other habitats
1	176m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	184m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	227m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	233m E	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)



This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 88**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

4

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 89**

ID	Location	LEX Code	Description	Rock description
1	246m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	411m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	423m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	455m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)
 Landslip (10k)
Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

4

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 91**

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	179m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
4	374m NE	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
5	403m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

2

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 91**

ID	Location	LEX Code	Description	Rock description
2	89m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
6	462m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

6

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 93**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	128m SW	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
3	157m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
4	197m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
6	223m SW	RSC-SDST	Riddle Scout Rock - Sandstone	Langsettian Sub-age
7	249m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

3

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 93**

ID	Location	Category	Description
5	197m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	332m SW	ROCK	Coal seam, inferred
9	378m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 95**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

 Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

4

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 97**

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	171m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	374m NE	RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL
5	402m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

2

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 97**

ID	Location	LEX Code	Description	Rock description
2	83m NE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
6	462m NE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

4

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 99**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	128m SW	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
3	157m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	197m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
--------------------	---

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	2
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Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

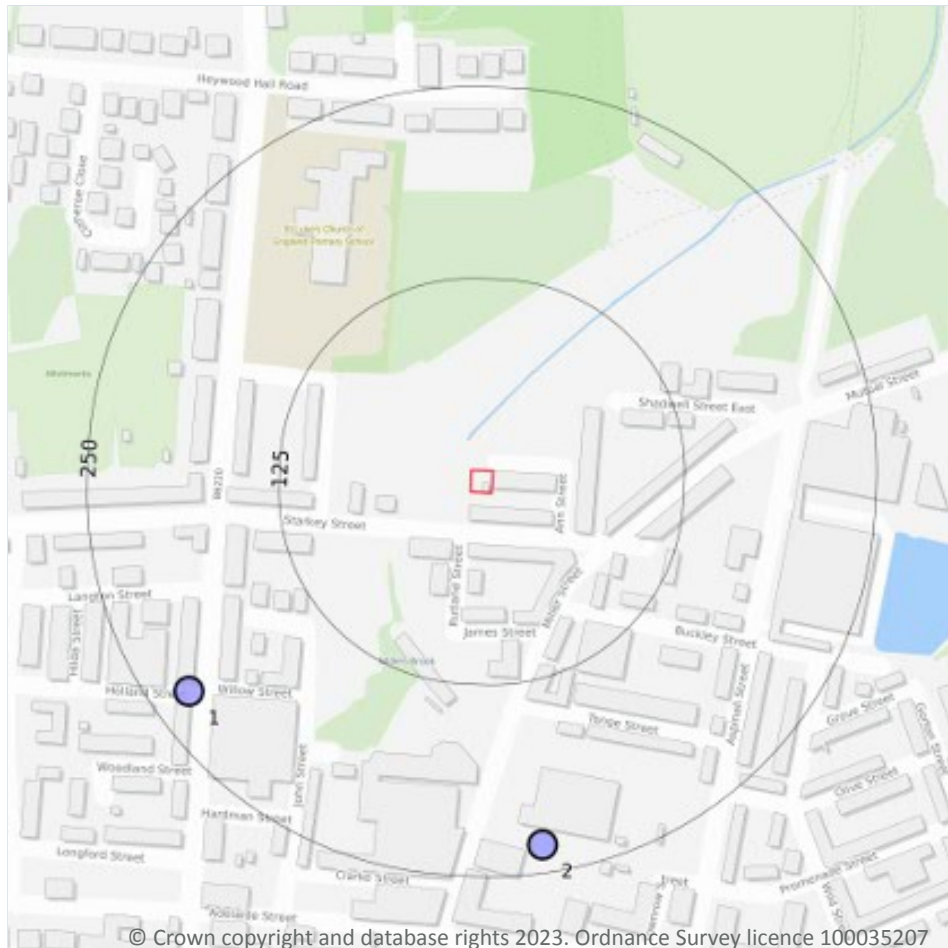
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 99**

ID	Location	Category	Description
5	197m NE	FAULT	Fault, inferred
6	332m SW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

2

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

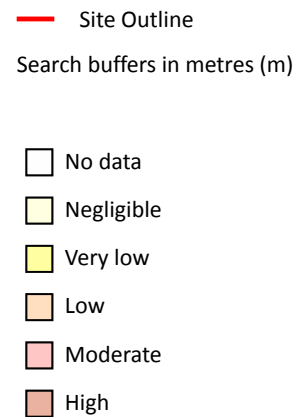
Features are displayed on the Boreholes map on **page 101**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	225m SW	385710 410970	HEYWOOD EAST SEWER 4	7.0	N	30014
2	232m S	385940 410870	HEYWOOD EAST SEWER 6	7.0	N	30015

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

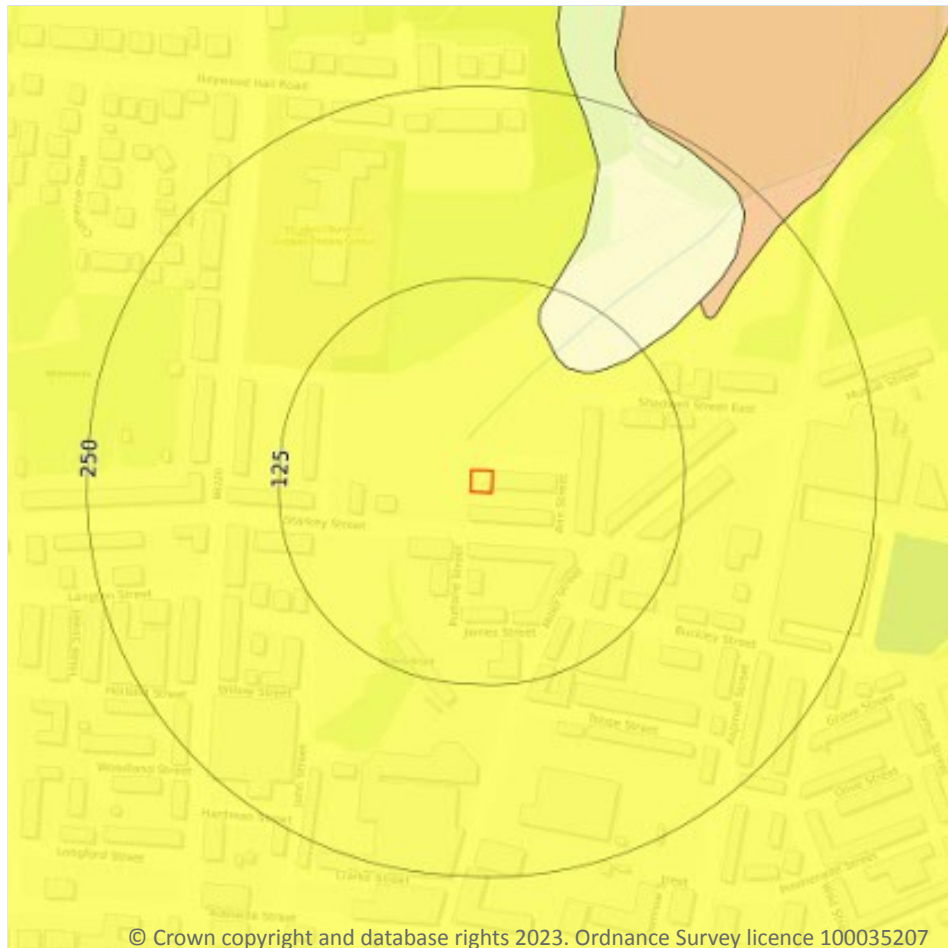
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 102**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

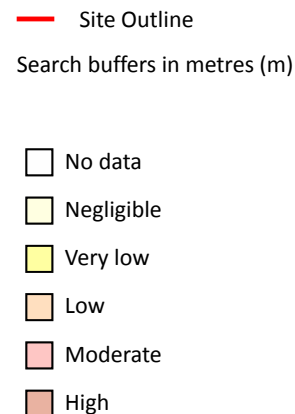
Features are displayed on the Natural ground subsidence - Running sands map on **page 103**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 104**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

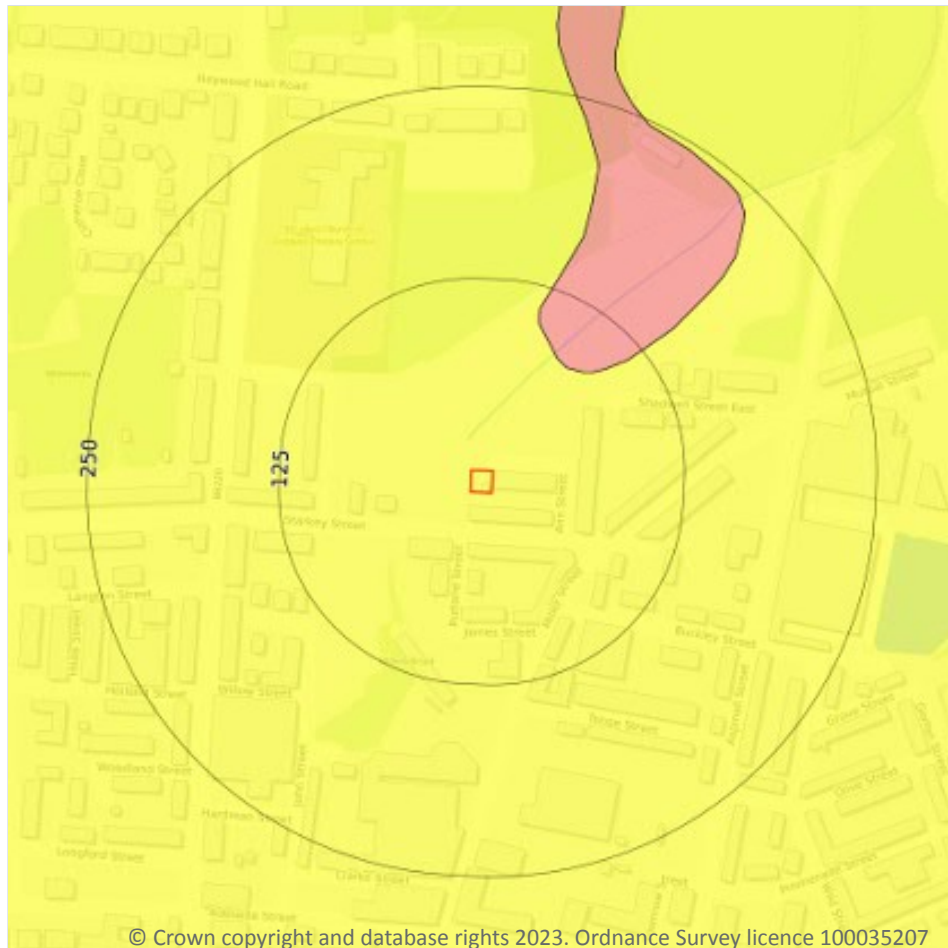
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 105**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 106**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 107**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Details	Description
C	206m SE	Name: Heywood Brick Field Address: HEYWOOD, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	389m SE	Name: Captain Fold Sand Pit Address: HEYWOOD, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	478m SE	Name: Captain Fold Sand Pit Address: HEYWOOD, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

23

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Refuse Heap	1909	1:10560
A	0m NW	Unspecified Ground Workings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	72m SW	Ponds	1928	1:10560
B	76m SW	Unspecified Ground Workings	1968	1:10560
C	98m SE	Brick Yard	1851	1:10560
D	134m S	Pond	1949	1:10560
D	134m S	Ponds	1890	1:10560
D	138m S	Pond	1938	1:10560
D	140m S	Pond	1928	1:10560
D	140m S	Pond	1909	1:10560
D	142m S	Pond	1851	1:10560
1	143m SE	Ponds	1890	1:10560
E	184m S	Pond	1928	1:10560
E	186m S	Refuse Heap	1909	1:10560
E	186m S	Pond	1938	1:10560
E	186m S	Pond	1890	1:10560
2	188m NE	Unspecified Ground Workings	1992	1:10000
E	193m S	Unspecified Ground Workings	1928	1:10560
F	232m E	Unspecified Ground Workings	1890	1:10560
G	239m NE	Unspecified Ground Workings	1992	1:10000
G	239m NE	Unspecified Ground Workings	1987	1:10000
G	239m NE	Unspecified Ground Workings	1975	1:10000
G	239m NE	Unspecified Ground Workings	1968	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

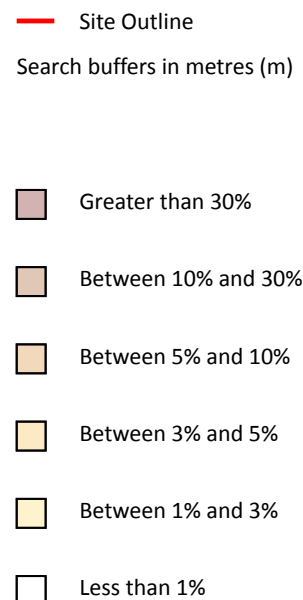
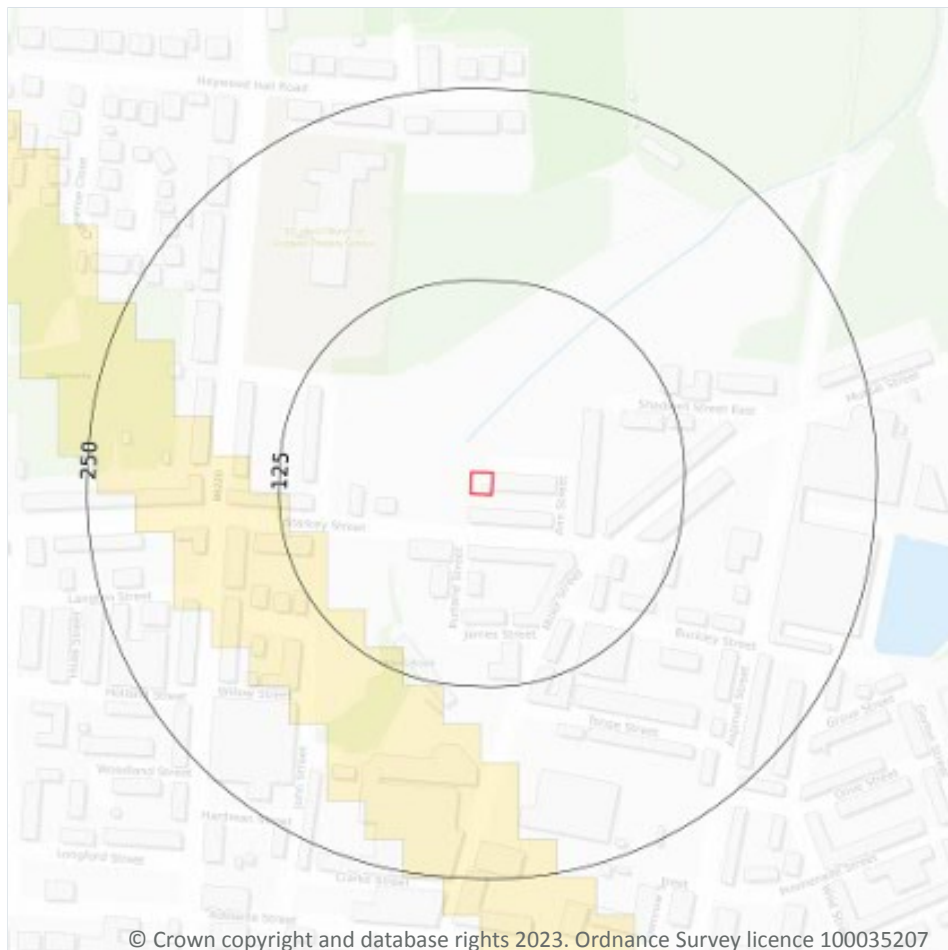
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 114**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m**1**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m	0
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Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0
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Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0
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Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0
---------------------	---

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0
---------------------	---

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

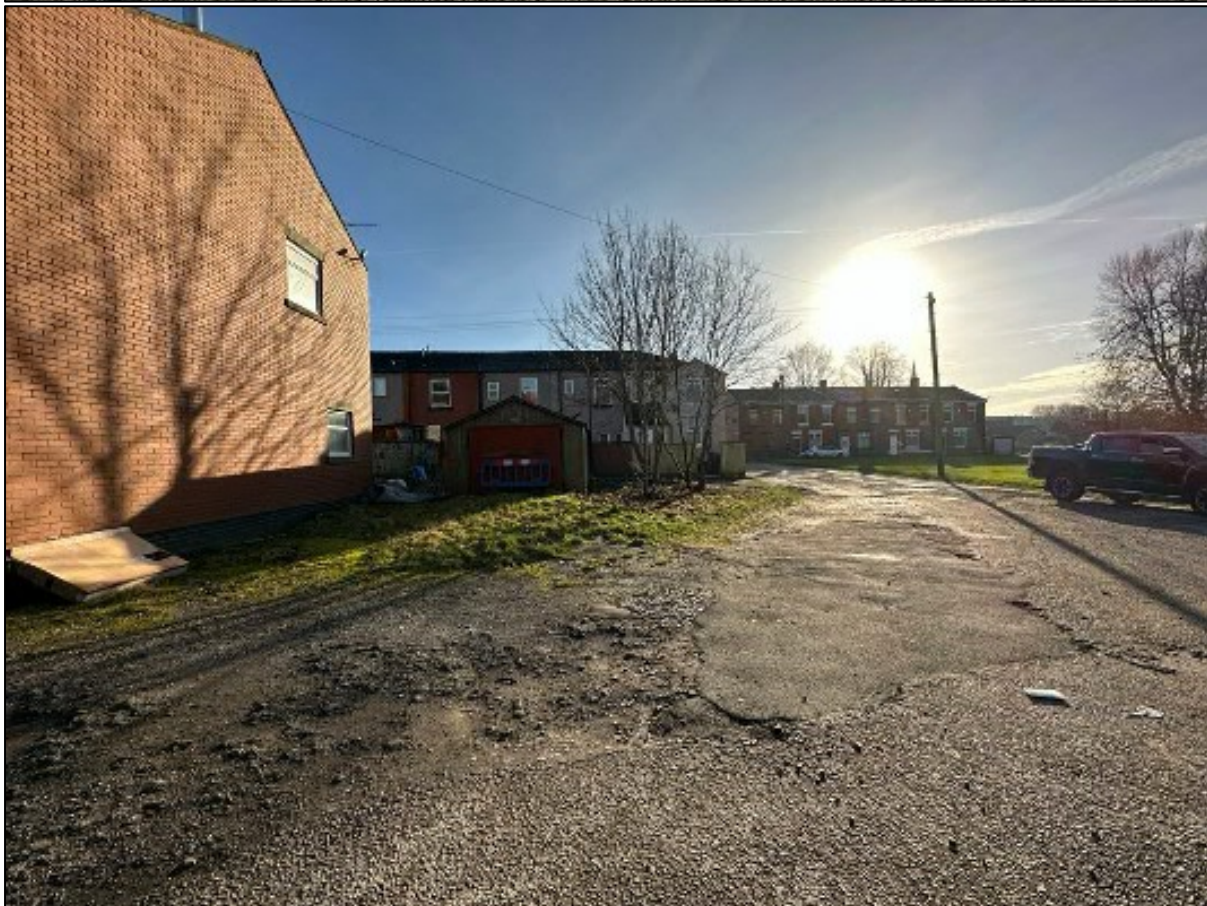
Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



20 APPENDIX 4 – SITE PHOTOGRAPHY







21 APPENDIX 5 - RISK ASSESSMENT METHODOLOGY

- Severity considers the potential impact of the linkage on the receptors, if the linkage was active. Categories range from slight/superficial to fatal.
- Likelihood considers the chances of the linkage occurring and is classified into categories from improbable to frequent.

By assigning scores with each of the above categories, the risk assessment can be undertaken using the formula:

$$\text{RISK} = \text{LIKELIHOOD} \times \text{SEVERITY}$$

The matrix given in Table 11 provides a means of calculating the overall risk; while Table 12 provides the qualitative assessment based on the risk score.

Table 11: Contamination Risk Matrix

		Potential Severity				
		Fatal 5	Major 4	Moderate 3	Minor 2	Slight 1
Probable Likelihood	Frequent 5	Very High	High	Moderate	Low - Moderate	Low
	Probable 4	High	High	Moderate	Low - Moderate	Low
	Possible 3	Moderate	Moderate	Low - Moderate	Low - Moderate	Very Low
	Remote 2	Low - Moderate	Low - Moderate	Low - Moderate	Low	Very Low
	Improbable 1	Low	Low	Very Low	Very Low	Very Low

Table 12: Assessment description for risk scores

Risk Score	Risk Assessment
1-3	Very Low
4-5	Low
6-10	Low to Moderate
11-15	Moderate
16-20	High
21-25	Very High

Table 13: Risk Classification System

Risk Term	Description
Very Low	The presence of an identified hazard does not give rise to the potential to cause significant harm to groundwater, surface water, ecological and/or property receptors. In the event of such harm being realized, it is not likely to be Severe.
Low	The presence of an identified hazard does not give rise to the potential to cause significant harm to human health receptors. In the event of such harm being realized, it is not likely to be Severe.
Low to Moderate	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that 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.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action. Investigation is required and remedial works may be necessary in the short term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or, there is an evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required.

22 ABBREVIATIONS

Abbreviation	Description
AOD	Above Ordnance Datum
AONB	Areas of Outstanding Natural Beauty
BGS	British Geological Survey
c.	circa
CLRA	Contaminated Land Risk Assessment
COMAH	Control of Major Accident Hazards
CSM	Conceptual Site Risk Model
EA	Environment Agency
IPC	Integrated Pollution Control
IPPC	Integrated Pollution Prevention Control
LAPC	Local Authority Pollution Control
LNR	Local Nature Reserves
NIHHS	Notification of Installations Handling Hazardous Substances
NNR	National Nature Reserves
NP	National Parks
NPPF	National Planning Policy Framework
OS	Ordnance Survey
PAHs	Polycyclic Aromatic Hydrocarbons
Part IIA	Part IIA of the Environmental Protection. Act 1990
PCBs	Polychlorinated Biphenyls
PCLU	Potentially Contaminative Land Use
PPL	Potential Pollutant Linkage
PSPPL	Potentially Significant Potential Pollutant Linkage
SAC	Special Areas of Conservation
SI	Site Investigation
SPA	Special Protection Area
SPOSH	Significant Possibility of Significant Harm
SSSIs	Sites of Special Scientific Interest
TPHs	Total Petroleum Hydrocarbons
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds