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DESK STUDY WITH WALKOVER SURVEY

**AT
KNOWSLEY MILL,
LAWRENCE STREET,
BURY,
GREATER MANCHESTER,
BL9 9SS,**

**PREPARED FOR
ECOSCAPE UK LIMITED**

**REPORT NO. 7931
APRIL 2024**

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EXECUTIVE SUMMARY

This executive summary is a brief summary only and should be read in conjunction with the full report.

Section	Subject	Summary
Site Details	Site Address	KNOWSLEY MILL, LAWRENCE ST., BURY, GREATER MANCHESTER, BL9 9SS.
	Grid Reference	E380718m N407985m.
	Current Land Use	Former Travis Perkins retailer, currently disused warehouse.
	Proposed Development	Demolition of the Travis Perkins warehouse and construction of 10 No. housing plots.
Site History	On Site	In the earliest survey (1848-1851), the site appears to be an undeveloped field. Between 1955-1957, a Warehouse is constructed on the site. Between 1964-1969, Knowsley Mill (warehouse) is labelled within the site.
	Beyond Site Boundary	In the earliest survey (1848-1851), Barlow Fold Farm is located 105m to the west, the River Roch is located 117m north east and the River Irwell is 218m north west of the site boundary. Between 1890-1893, a Pond is located 175m east and a Spring is located 240m east of the site boundary, Hampson Mills is present 160m north east with reservoirs 225m north and Blackford Bridge Print Works is 160m south of the site boundary. Between 1907-1910, four Tanks (labelled as Filter Beds by 1922) are located 245m south. Settling Tanks, Sluices and Filter Beds are labelled between 168m to the north and a Sewage Works is located 165m to the west of the site boundary. Slopes and potentially infilled ground are approximately 90m north of the site. Between 1927-1932, Allotment Gardens are located 75m to the south east and west of the site boundary, a Chimney and Screening Chamber are labelled 250m south west of the site boundary. The infilled ground 90m to the north of the site is labelled as a Refuse Heap. Between 1955-1957, the Refuse Heap is adjacent to the site's northern boundary, two garages are constructed, one bordering the western bounds of the site and the other 15m to the south west. Allotment gardens are located 175m north east and the pond 175m east of the site boundary appears to be infilled. Between 1964-1969, the Allotment Gardens 75m west and 75m south east no longer appear on the map, a Timber Yard is located 200m north west and the western most building of Hampson Mills is labelled as a Depot. Between 1970-1981, Barlow Fold Farm no longer appears on the map and the Depot is demolished and replaced with housing. Between 1982-1987, the Garage 15m south west of the site is no longer labelled and another Garage and Tank are located 5-10m north west of the site. The Timber Yard is labelled as a Warehouse. By 2000, the garage on the border of the western bounds of the site is a car dealership according to aerial photographs, which is extended by 2005. Between 2001-2003, the Tank and Garage to the north west of the site are no longer labelled. By 2013, the Warehouse 200m north west is developed with an additional warehouse.
Geological and Mining Appraisal	Made Ground	No Made Ground is indicated to be present within the site or in its immediate vicinity. However, as the site has been developed, some may be present.
	Superficial Geology	Devensian Till – Diamicton (poorly sorted sandy gravelly silty clay)
	Bedrock Geology	Pennine Middle Coal Measures Formation – Mudstone, siltstone and sandstone
	Radon	No Radon protection measures required.
	Mining	No recorded past, present, or future underground mining beneath the site and no probable unrecorded shallow workings. See appended Consultants Coal Authority Mining Report ref. 51003410078001 dated 7 th March 2024. No further consideration need be given.
	Subsidence Hazards	Negligible to very low.

Environmental Appraisal	Landfill Sites	Within 250m of the site boundary, there is one historical landfill 140m north east of the site boundary, one infilled Pond 175m east, Reservoirs 220m north and a Refuse Heap 21m north of the site boundary.	
	Hydrogeology	Superficial – Secondary A Aquifer	Medium vulnerability
		Bedrock – Secondary A Aquifer	
	Hydrology	The site is within the catchment of the River Roch, situated 126m south east of the site.	
	Flood Risk	Flood Zone 1 – Negligible surface water risk on site and low risk of ground water flooding on the site. A Flood Risk Assessment is unlikely to be required.	
	Industrial Land Uses	The potentially contaminative industrial land uses within 250m of the site boundary which pose the most significant risk are a Car Dealership 10m west, an obsolete Petrol Station 54m north west, a historic Refuse Heap 21m north and the Sewage Works 165m west of the site boundary respectively.	
	Other Relevant Details	During the walkover survey, a forklift was identified in the warehouse and vehicles parked along the eastern wall of the warehouse.	
Recommendations	The conceptual ground model indicates that an intrusive ground investigation is required to assess the ground conditions. The ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis. In addition, the conceptual ground model indicates that ground gases might be present and hence gas standpipes should be installed and monitored over an extended period of time, to allow for an assessment to be made.		
Other Considerations (for Warranty Providers, Building Control, Structural Engineers, Developers, etc.)	Listed below are various items that are likely to be required at some point during the development and it would be cost effective to have them carried out simultaneously. This is not an exhaustive list. • Boreholes and laboratory testing to assess the ground conditions for foundation design. • BRE Digest 365 Soakaway Tests. • Waste Classification and WAC testing for removal of waste to landfill. • CBR Testing for road design and construction. • Water Pipeline Risk Assessment.		

DESK STUDY WITH WALKOVER SURVEY FOR KNOWSLEY MILL, LAWRENCE STREET, BURY, GREATER MANCHESTER, BL9 9SS

CLIENT: ECOSCAPE UK LIMITED

ARCHITECT: FOUR ARCHITECTS LIMITED

1. INTRODUCTION

This report has been prepared in accordance with emails, dated 6th and 7th March 2024, from the Architect on behalf of the Client.

The brief was set out in our estimate, ref. E6977 dated 23rd February 2024, and comprises a walkover survey and a desk study report including a historical, geological, and environmental appraisal together with a conceptual ground model.

It should be noted that the instruction for a Coal Authority Consultants Mining Report was ordered, in accordance with an email, dated 7th March 2024, by the Architect for the site.

1.1 Site Location and Description

The site is located on the premises of a former Travis Perkins outlet and is currently a disused plot of land, accessible via Lawrence Street onto Chelsea Street, as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is E380718m N407985m.

As shown on Figure 2, the about 0.11 hectare rectangular shaped site is bounded to the north by a car park, to the east by Chelsea Street, to the south by Lawrence Street and to the west by a garage.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is proposed to demolish the former Travis Perkins building and develop the site into 10 individual plots for housing, as shown on Figure 3.

The purpose of the desk study is to obtain information regarding the sites historical, geological and environmental setting in order to produce a conceptual ground model, to assess the ground conditions, to undertake a preliminary assessment of contamination sources, pathways and receptors relating to potential hazards that exist or will potentially exist on the site and to assess the need for ground investigation.

In addition, a Coal Authority Consultants Coal Mining Report is appended to provide an initial assessment on the likelihood of potential underground coal mining beneath the site.

1.3 Walkover Survey

The walkover survey was undertaken on the 28th March 2024. Surface features observed were recorded on a plan of the site together with the positions and directions of photographs taken. The resulting Walkover Survey Plan and site photographs are appended.

On the day of the walkover survey, the site could be accessed from Chelsea Street.

The site is flat and is situated on a concrete yard, bound to the north and west by a car showroom and metal fencing to the east onto Chelsea Street. A single storey brick built warehouse is located in the centre of the site and is a former Travis Perkins Builders Merchants site. The warehouse appears to have an asbestos cement sheet roof. Within the warehouse, an electrical forklift is located in the centre, along with various pallets of building materials ranging from timber, roof tiles and metal shelving. A white unit which appears to be air conditioning/refrigeration is located in the north eastern corner of the site. Multiple containers which could not be accessed during the survey are located next to the wall of the warehouse to the north. Multiple vehicles are parked parallel to the eastern wall of the warehouse.

No visual or olfactory contamination was noted during the walkover survey.

2. DESK STUDY

2.1 Historical Appraisal

The past history of the site has been interpreted from the study of old Ordnance Survey plans supplied by GroundSure, as follows:

TABLE 1 SMALL SCALE SURVEYS

Date	Survey	Scale
1848-1850	CS	1:10,560
1851	CS	1:10,560
1890-1891	CS	1:10,560
1907-1908	CS	1:10,560
1915*	CS	1:10,560
1923*	CS	1:10,560
1927-1932	CS	1:10,560
1938	CS	1:10,560
1955	OS	1:10,560
1965	OS	1:10,000
1974-1977	OS	1:10,000
1981	OS	1:10,000
2001	OS	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Survey	Scale
1890-1893	CS	1:2,500
1891 ***	CS	1:500
1909-1910	CS	1:2,500
1922	CS	1:2,500
1930-1932	CS	1:2,500
1937	CS	1:2,500
1956 **	OS	1:1,250
1956	OS	1:2,500
1957 **	OS	1:1,250
1964-1969 **	OS	1:1,250
1968-1969	OS	1:2,500
1970 **	OS	1:1,250
1977-1981 **	OS	1:1,250
1982-1987 **	OS	1:1,250
1989-1992 **	OS	1:1,250
2003	OS	1:1,250

CS = County Survey, OS = Ordnance Survey, * Site not covered by the survey,
 ** Survey printed at 1:2,000 scale, *** Survey printed at 1:1,000 scale.

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1848-1851	The site appears to be an undeveloped field.	Barlow Fold (Farm) is located 105m to the west of the site boundary. The River Roch is located 117m north east and the River Irwell is located 218m north west.
1890-1893	No significant changes within the site.	Housing and a Hotel are located between 30-50m south west of the site boundary. Hampson Mills (Bleaching, Drying and Finishing) is present 160m north east with reservoirs 225m north. Blackford Bridge Print Works is present 160m south. A Pond is located 175m east of the site boundary. A Spring is labelled 240m east of the site boundary.
1907-1910	No significant changes within the site.	Four Tanks are labelled 245m to the south of the site boundary. Settling Tanks, Sluices and Filter Beds are labelled between 168m to the north of the site boundary. Slopes are shown in the area to the north of the site, possibly indicating infilling. A Sewage Works is constructed 165m to the west of the site boundary.
1915-1923	Site not covered on the small scale surveys.	Site boundary not covered on the small scale surveys.
1922	No significant changes within the site.	The Tanks located 245m to the south of the site boundary are now labelled as Filter Beds.

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1927-1932	No significant changes within the site.	A Bowling Green is labelled 15m to the east of the site boundary. A square building is constructed 15m to the south west of the site boundary, near the junction between Lawrence St. and Manchester Rd. Allotment Gardens are labelled 75m to the south east and 75m to the west of the site boundary. Possible infilled ground 90m north labelled as a refuse heap. A Chimney and Screening Chamber are labelled in the Sewage Works 250m to the south west of the site boundary.
1937-1938	No significant changes within the site.	No significant changes within 250m of the site boundary.
1955-1957	A Warehouse is constructed on the site.	A Garage is constructed, bordering the western bounds of the site. A Garage is constructed 15m to the south west of the site boundary. The refuse heap is now adjacent to the site's northern boundary. Allotment Gardens are located 175m to the north east of the site boundary. The Pond 175m to the east of the site boundary appears to be infilled/dried up.

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

1964-1969	Knowsley Mill (warehouse) is labelled within the site.	The Allotment Gardens 75m to the west of the site boundary are no longer labelled and housing is constructed there. The westernmost building, part of Hampson Mills, is now labelled as a Depot, with the rest having been demolished and the reservoirs infilled. A Timber Yard is located 200m to the north west of the site boundary. By 1968, the Settling Tanks and Filter beds 230m to the north of the site boundary no longer appear on the map. By 1968, the Allotment Gardens to the south east of the site boundary no longer appear on the map.
1970-1981	No significant changes within the site.	Barlow Fold Farm no longer appears on the map. The Depot has been demolished and replaced by housing.
1982-1987	No significant changes within the site.	The Garage 15m to the south west of the site boundary is no longer labelled on the map. A Garage and Tank are located between 5-10m to the north west of the site boundary. The Timber Yard 200m north west of the site boundary is labelled as a Warehouse.
1989-1992	No significant changes within the site.	No significant changes within 250m of the site boundary.
2001-2003	No significant changes within the site.	The Tank and Garage 5-10m to the north west are no longer labelled.
2010-2024	No significant changes within the site.	No significant changes within 250m of the site boundary.

The small scale plans from 2001-2024 contain insufficient detail for review. However, aerial photographs indicate by 2000, the Garage near the western bounds of the site appears to be a car showroom, with cars parked to the west and north west of the site boundary. By 2005, the showroom is extended near the northern boundary of the site, to allow for additional car storage. By 2013, the Warehouse 200m to the north west is developed, adding an additional warehouse. We are not aware of any other significant changes within the site and its immediate surrounding area.

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2.2 Geological Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 14 to 17).

2.2.1 Artificial Ground (Made Ground)

No Made Ground is indicated to be present within the site or in its immediate vicinity. However, as the site has been developed some may be present.

In addition, Made Ground, described as undivided Landscaped Ground, is indicated to be about 61 metres to the south east of the site boundary, the depth of which is unknown.

2.2.2 Superficial Geology (Drift Deposits)

Drift deposits, described as Devensian Till, comprising Diamicton (poorly sorted sandy gravelly silty clay), are indicated to be present within the site, the depth of which is unknown.

The maximum permeability of these deposits is indicated to be high and the minimum permeability is indicated to be low.

In addition, drift deposits, described as River Terrace Deposits, comprising sand and gravel, are indicated to be about 49 metres to the south east of the site boundary, the depth of which is unknown.

2.2.3 Bedrock Geology

Within the site the bedrock underlying the site is indicated to be the Pennine Middle Coal Measures Formation, comprising interbedded grey mudstone, siltstone, pale grey sandstone and common coal seams.

The maximum permeability of this formation is indicated to be moderate and the minimum permeability is indicated to be low.

The nearest coal seam is inferred to be present about 98 metres to the north east of the site boundary. The dip and direction of dip of the rock strata, including the coal seam, is unknown. Given the location of the coal seam in relation to the site boundary there is a possibility that it underlies the site.

Rock strata are also indicated to be displaced by geological faults about 119 metres to the north east of the site boundary.

2.2.4 Potential Hazards in Natural Ground

The hazard rating for shrinking/ swelling clays is very low, running sands is very low, compressible deposits/ strata is negligible, collapsible deposits/ strata is very low, landslides is very low and dissolution of soluble rocks is negligible.

2.3 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 18 to 21).

2.3.1 Mining and Ground Workings

Ordnance Survey mapping identifies surface excavations which may, or may not, have been subsequently backfilled with unknown material. The Ordnance Survey indicates that there are twenty two historical surface excavations within 250 metres of the site boundary, including a refuse heap, cuttings, filter beds, sewage works, a pond and reservoirs, the nearest refuse heap being about 21 metres to the north, the nearest cuttings 110 metres to the north east, the nearest filter beds 126 metres to the north, the nearest sewage works being 175 metres to the west, the nearest pond being 217 metres to the north and the nearest reservoir being 221 metres to the north of the site boundary respectively.

The British Geological Survey maintain records of mining of minerals other than coal including vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and other commodities, including ball clay, jet, black marble, graphite and chert. The British Geological Survey indicate and indicates that there is no potential for non-coal mining beneath the site or within 1,000 metres of the site boundary.

The Coal Authority, and others, indicate that there is a potential for coal mining beneath the site. A Coal Authority Mining Report, ref. 51003410078001 and dated 7th March 2024, is appended. The Coal Authority Mining Report only refers to records in the possession of the Coal Authority. It should be noted that it did not become a statutory requirement to maintain and preserve plans of abandoned mines until the Mines (Coal) Regulations Act of 1872, by which date much unrecorded mining had taken place and of those plans which were made it is likely that not all will have survived. According to the Coal Authority Mining Report, there is no past, present, or future underground mining recorded for the site, no opencast mines, outcrops within 500m of the site boundary. In addition, there are no probable unrecorded shallow workings. In view of the above, the risk of underground coal mining beneath the site is likely to be at a level where it need not be considered.

According to the report the site is not in an area affected by significant non-coal mining, mining cavities, brine extraction, gypsum extraction, tin mining or clay mining.

There are no records of natural cavities within 500 metres of the site boundary.

2.3.2 Radon

The British Geological Survey and Public Health England have estimated the percentage of dwellings exceeding the "Radon Action Level" of 200 Becquerels/ m³ for the UK based on geological assessments and long term measurements of radon in more than 560,000 households.

The site is unlikely to be affected by radon gas as < 1% of surrounding properties are above the Radon Action Level. No radon protection measures are required.

2.3.3 Soil Chemistry

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, chromium, lead and nickel in the topsoil. Data for on-site topsoil is given. Data for the land within 50 metres of the site boundary is not given.

2.3.4 Railway Infrastructure

There are no active or inactive underground or overground railways and no railway tunnels within 250 metres of the site boundary.

The site is not within 500 metres of Crossrail 1, Crossrail 2 or the High Speed 2 (HS2) rail project.

2.4 **Environmental Appraisal**

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 1 to 13).

2.4.1 Historical Industrial Land Use

Historical potentially contaminative industrial land uses are recorded by the Ordnance Survey. Within the site there are no potentially contaminative industrial land uses identified. In addition, within 250 metres of the site boundary, there are thirty potentially contaminative industrial land uses identified, including refuse heaps, unspecified depots, cuttings, unspecified mills, filter beds, print works, dye works, smithies, unspecified tanks and unspecified ground workings. Those that represent the most significant risk to the site are a refuse heap, indicated to be about 21 metres to the north, an unspecified depot, indicated to be about 97 metres to the north, a bleaching and finishing mill, indicated to be about 123 metres to the north east, filter beds, indicated to be 126 metres to the north, a print works indicated to be 160 metres to the south and a dye works, indicated to be about 166 metres to the south of the site boundary respectively.

2.4.2 Potentially Contaminated Land Associated with Historical Land Use

Our historical appraisal indicates potentially contaminative land uses which are not included in the above section. The identified potentially contaminative land uses are related to the garages within 20 metres of the site boundary, allotment gardens 75 metres to the south east, west and 175 metres to the north east of the site boundary and a historic farm located 105 metres to the west of the site boundary, redeveloped into housing by 1981.

2.4.3 Landfill

The Environment Agency and Natural Resources Wales have one record of known historical (closed) landfill sites, where there is no PPC permit or current waste management licence, within 250 metres of the site boundary, being about 140 metres to the north east of the site boundary.

Our historical appraisal has identified three potential unregistered landfills in the form of a pond infilled with unknown material, which may be a source of ground gas, about

175 metres to the east, reservoirs 220 metres to the north and a refuse heap 21 metres to the north of the site boundary.

2.4.4 Waste

Local Authority records and detailed Ordnance Surveys indicate no waste sites within 250 metres of the site.

According to the Environment Agency and Natural Resources Wales there is one active or recently closed waste sites within 250 metres of the site boundary, being a biological treatment facility about 182 metres to the west of the site boundary.

The Environment Agency and Natural Resources Wales have two records of activities involving the storage, treatment, use or disposal of wastes that are exempt from needing a permit (within specific limits and conditions) within 250 metres of the site boundary, being between 121 and 184 metres to the west, involving the use of waste in construction and use of sludge for re-seeding a water treatment plant.

2.4.5 Current Industrial Land Use

Current potentially contaminative industrial land uses are recorded by the Ordnance Survey and Experian. Within the site there are no potentially contaminative industrial land uses. In addition, within 250 metres of the site boundary, there are seven potentially contaminative industrial land uses, including an obsolete petrol station, car dealerships, an electricity substation, a pumping station and a service station. Those that represent the most significant risk to the site are the car dealership located 10 metres to the west, an electricity substation located 81 metres to the south west, a construction completion services, located 86 metres to the south west and an obsolete petrol station, located 54 metres to the north west of the site boundary respectively.

2.4.6 Sites Determined as Contaminated Land

There are no sites determined as contaminated under Section 78R of the Environmental Protection Act (1990) within 250 metres of the site boundary.

2.4.7 Control of Major Accident Hazards (COMAH)

Records of Control of Major Accident Hazards (COMAH), including Notification of Installations Handling Hazardous Substances (NIHHS) and other historical data, indicate that there are no dangerous or hazardous sites within 250 metres of the site boundary.

2.4.8 Regulated Explosives Sites

Up to April 2015 there were no sites within 250 metres of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

2.4.9 Hazardous Substance Storage and Usage

There are no Local Authority records of consents granted for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the 2015 Planning (Hazardous Substances) Regulations within 250 metres of the site boundary.

2.4.10 Historical Licenced Industrial Activities (IPC)

There are no historical Integrated Pollution Control (IPC) records of substances released to the air, land and water according to the Environment Agency and Natural Resources Wales within 250 metres of the site boundary.

2.4.11 Licenced Industrial Activities (Part 1(A))

The Environment Agency and Natural Resources Wales indicate that there are twenty five records of Part 1(A) installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for release to the environment within 250 metres of the site boundary, related to the United Utilities water treatment works, 191 metres to the west of the site boundary.

2.4.12 Part A(2) and Part B Authorisations

Local Authority records indicate there are no Part A(2) and Part B installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for the release of substances to the environment within 250 metres of the site boundary.

2.4.13 Radioactive Substance Authorisations

The Environment Agency and Natural Resources Wales indicate that there are no records of storage, use, accumulation and disposal of radioactive substances regulated under the 1993 Radioactive Substances Act within 250 metres of the site boundary.

2.4.14 Licensed Discharges to Controlled Waters

According to Environment Agency and Natural Resources Wales records there have been three discharges of treated or untreated effluent to controlled water under the 1991 Water Resources Act within 250 metres of the site boundary, the nearest being about 222 metres to the south.

2.4.15 Pollutant Release to Surface Waters (Red List)

The Environment Agency and Natural Resources Wales records indicate that there have been no discharges of specified substances under the 1991 Environmental Protection (Prescribed Processes and Substances) Regulations within 250 metres of the site boundary.

2.4.16 Pollutant Release to Public Sewers

According to Environment Agency and Natural Resources Wales records there have been no discharges of special category effluents to public sewers within 250 metres of the site boundary.

2.4.17 List I and List II Dangerous Substances

The Environment Agency and Natural Resources Wales records indicate that there have been no discharges of substances on List I and List II of the European Directive E2006/11/EC respectively, regulated under the 2015 Environmental Damage (Prevention and Remediation) Regulations, within 250 metres of the site boundary.

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2.4.18 Pollution Incidents

According to the Environment Agency and Natural Resources Wales there is one record of substantiated pollution incidents within 250 metres of the site boundary, being about 195 metres to the south in 2001, which had no impact on water, land or air quality.

2.4.19 Pollution Inventory Substances

The Environment Agency and the Scottish Environment Protection Agency indicate that there have been no reports on annual emissions of certain regulated substances to air, controlled waters and land within 250 metres of the site boundary.

2.4.20 Pollution Inventory Waste Transfers

According to the Environment Agency and the Scottish Environment Protection Agency there have been no reports on annual transfers and recovery/ disposal of controlled wastes within 250 metres of the site boundary.

2.4.21 Pollution Inventory Radioactive Waste

The Environment Agency and the Scottish Environment Protection Agency indicate that there have been no reports on annual releases of radioactive substances within 250 metres of the site boundary.

2.4.22 Hydrogeology

The following designation of aquifers is in accordance with the Environment Agency's April 2010 Groundwater Protection Policy.

Superficial/ drift deposits are anticipated to be present and comprise Diamicton (poorly sorted sandy gravelly silty clays) which are indicated to be a Secondary A aquifer comprising permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The bedrock is anticipated to be the Pennine Middle Coal Measures Formation, comprising mudstone, siltstone and sandstone which is indicated to be a Secondary A aquifer comprising permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as "Medium", an area which may transmit pollution and/or protect from pollution for the majority of the site, and "Low" in the northern most bounds of the site, an area able to provide protection from pollution.

British Geological Survey and Environment Agency data indicates that the site is not within a 1km grid where solution features are present that will enable rapid movement of a pollutant to groundwater.

Environment Agency data indicates that the site is not in an area where additional local information indicates that groundwater is vulnerable to pollution.

According to data provided by the Environment Agency and Natural Resources Wales there are twenty one groundwater abstraction licences, the nearest being 367 metres to the south east, twenty surface water abstraction licences, the nearest being 983

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metres to the north west and five potable water abstraction licences, the nearest being 1176 metres to the north east, within 2000 metres of the site boundary.

There are no Source Protection Zones, set up to protect a water source within 500 metres of the site of boundary, present according to the environmental data report.

2.4.23 Hydrology

The Ordnance Survey indicate that there are six watercourses (inland river) within 250 metres of the site boundary, the nearest watercourse, the River Roch being about 123 metres to the south east.

There are two surface water features (ponds or lakes) within 250 metres of the site boundary according to the Ordnance Survey.

The Water Framework Directive (WFD) indicates that the site is within the catchment of the River Roch, this watercourse being about 126 metres to the south east of the site boundary and the groundwater body is known as the Northern Manchester Carboniferous Aquifers.

2.4.24 Flooding

Flooding data is maintained by the Environment Agency and Natural Resources Wales. The Risk of Flooding from Rivers and Sea (RoFRaS) database indicates that within 50 metres of the site boundary there is no available data to assess the risk.

In the period since records began in 1946, there are no records of historical floods within 250 metres of the site boundary.

There are no flood defences, no areas benefitting from flood defences and no flood storage areas present within 250 metres of the site boundary.

The site boundary is not within 50 metres of a Flood Zone 2 and is not within 50 metres of Flood Zone 3.

According to Ambiantal Risk Analytics surface water "FloodMap" there is a negligible risk of surface water flooding on the site and a 1 in 30 year, 0.3-1.0m risk of surface water flooding within 50 metres of the site boundary.

Groundwater flooding is caused when the water table rises in areas where this is usually at shallow depth. Ambiantal Risk Analytics indicate that there is a low risk of groundwater flooding on the site and a moderate risk of groundwater flooding within 50 metres of the site boundary.

Given the above we anticipate that a Flood Risk Assessment is unlikely to be required.

2.4.25 Environmental Designations

Natural England, Natural Resources Wales and Scottish Natural Heritage indicate that there are environmental sensitive sites within 2000 metres of the site boundary.

One Local Nature Reserve (LNR), being about 682 metres to the east, five Green Belt Land packages, the nearest being 171 metres to the south east and one Site of Special Scientific Interest (SSSI) Impact Risk Zones on the site are present.

2.4.26 Visual and Cultural Designations

Historic England, Cadw and Historic Environment Scotland indicate that within 250 metres of the site boundary there is a Listed Building located 122 metres to the south west of the site boundary.

2.4.27 Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site is Grade Urban and the land within 250 metres of the site is Grade 3, good to moderate quality.

Natural England and Natural Resources Wales indicate that there is no open access land within 250 metres of the site boundary.

The Forestry Commission indicate that there are no tree felling licences within 250 metres of the site boundary.

Natural England indicate that there are no environmental stewardship schemes within 250 metres of the site boundary.

Natural England indicate that there are no countryside stewardship schemes within 250 metres of the site boundary.

2.4.28 Habitat Designations

Natural England indicate that there are ten priority habitats, the nearest being 141 metres to the south, three habitat networks, the nearest being 155 metres to the south west, no open mosaic habitats and no limestone pavement orders within 250 metres of the site boundary.

2.5 **Conceptual Ground Model**

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

2.5.1 Sources

Potential sources of contamination identified in the desk study are:

- General contaminants associated with Made Ground (if present) and past and present contaminative processes undertaken on and adjacent to the site including earthworks, construction, demolition, and the sites former use as a builder's merchant and warehouse.
- On-site spillage and leakage of hydrocarbons (oils and fuels) from vehicles parked on the site, the forklift located in the disused warehouse, the vehicle showroom to the north and south of the site boundary and an obsolete petrol station 54 metres to the north east.
- Migrating leachate (contaminated surface and/ or groundwater) from sewage works 165m to the west, a garage and tank between 5-10m north west of the site and a refuse heap 21m north of the site.
- Migrating ground gases from one historic landfill site 140m to the north east, an infilled pond 175m to the east, reservoirs 220m to the north and a refuse heap 21m north of the site boundary.
- Accumulated ground gases in on-site confined spaces.
- Potential pesticides from Barlow Fold Farm in the 1980's and allotment gardens in the 1970's. The risk to the site from the farm and from the allotment gardens is likely to be negligible to very low and need not be considered due to the age and distance from the site.

2.5.2 Pathways

Potential pathways from source and receptor for the proposed development are:

- Direct skin contact with and/ or ingestion of contaminated soils and/ or water.
- Inhalation of dust, vapours and/ or gases.
- Dissolved contaminants via infiltrating surface water/ migrating groundwater.
- Dissolved ground gases via infiltrating surface water/ migrating groundwater.
- Volatile contaminants via permeable soils and rocks.
- Ground gases via permeable soils and rocks.
- Consumption of contaminated fruit and/ or vegetables.
- Migration of contaminants to the underlying aquifer and to adjacent properties.

2.5.3 Receptors

Potential receptors for the proposed development are:

- Site operatives during demolition, earthworks and/ or construction.
- The end users of the development (young children are the most sensitive).
- Fruit and vegetables grown in gardens for consumption.
- Vegetation, bushes and trees planted as part of the development of the site.
- Controlled waters including surface water and groundwater, including aquifers.
- Maintenance operatives entering on-site confined spaces after development.
- Adjacent properties.

2.5.4 Conclusions

An appraisal of the sources, pathways and receptors has been considered and we have produced a conceptual ground model based upon the available information, as follows:

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Made Ground	Contaminants in Made Ground	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH)	Ingestion of soil	Site Operatives	Moderate
			Ingestion of dust	End Users	
			Ingestion of contaminated vegetable produce		
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			Uptake via contaminated groundwater	Vegetation	Moderate
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
			Direct contact	Structures and Services	Low
Asbestos on/ in ground	Asbestos fibres	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Low to Moderate
Tanks/ Vehicles parked on the site Adjacent car dealership and nearby historic petrol station (obsolete) Electrical Forklift	Fuel/ oil spillage and/or leakage from machinery, fuel/oil tanks and/or vehicles Grease spillage and/or leakage from machinery	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX) Chlorinated Solvents	Ingestion of soil	Site Operatives	Moderate
			Ingestion of dust	End Users	
			Ingestion of contaminated vegetable produce		
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			Uptake via contaminated groundwater	Vegetation	Moderate
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Moderate
			Direct contact	Structures and Services	Moderate

7931 – Knowsley Mill

TABLE 4 (Cont'd) CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Landfill (historic landfill, infilled pond, infilled reservoirs and refuse heap)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Low to Moderate
Mining (1)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Very Low
Mining (2)	Subsidence	-	-	Structures and services	Very Low
Mine Entry	Settlement and/or Collapse			Structures and services	Very Low
Barlow Fold Farm / Allotment Gardens	Use of/ spillage/ leachate of Pesticides	Pesticides	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Negligible to Very Low
			Uptake via contaminated groundwater	Vegetation	Negligible to Very Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Negligible to Very Low
			Direct contact	Structures and Services	Negligible to Very Low

The conceptual ground model indicates that an intrusive ground investigation is required to assess the ground conditions. The ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis.

In addition the conceptual ground model indicates that ground gases might be present and hence gas standpipes should be installed and monitored over an extended period of time to allow for an assessment to be made.

According to the Consultants Coal Authority Mining Report, ref. 51003410078001, dated 7th March 2024, there are no records of past, present, or future plans for underground coal mining or any probable unrecorded shallow workings near the site and therefore it is deemed unlikely to be of a significant risk or, at a significant depth beneath the site that it need not be considered.

2.6 General

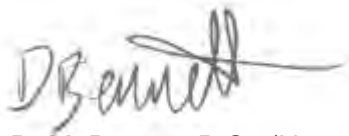
No consideration has been given to flora and fauna as this was outside our brief.

This Phase I walkover survey and desk study should be followed by a Phase II ground investigation. It should be noted that dependent upon the findings of the ground investigation a Phase III remediation statement and Phase IV validation with report may be required.

We recommend that consultation should be undertaken with and written approval obtained from the Local Authority Environmental Health Officer, the Local Authority Building Control Officer and the Coal Authority prior to commencing development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr David Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 7931A
APRIL 2024



D. M. Bennett B.Sc.(Hons.)
Geotechnical Engineer
For and on behalf of
Sub Surface Consultants Limited



C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table based on CIRIA C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' has been used when developing the Conceptual Ground Model and the preliminary risk ratings. The method requires an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring to formulate a preliminary risk rating (Table A).

Table A DESCRIPTION OF RISK AND LIKELY ACTION REQUIRED

Preliminary Risk Rating	Action Required
Very High Risk	Extensive Ground Investigation Required. There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High Risk	Extensive Ground Investigation Required. Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate	Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long-term.
Low Risk	Nominal Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	No Ground Investigation Required.* There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.
Negligible Risk	No Ground Investigation Required.* There is a very low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

* No further action is required unless unforeseen contaminated ground conditions are encountered.

PHOTOGRAPHS

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs
Site: KNOWSLEY MILL, LAWRENCE STREET, BURY, GREATER MANCHESTER, BL9 9SS		Job Number: 7931
Client: ESCOSCAPE UK LIMITED		Sheet: 1 / 2
Architect: FOUR ARCHITECTS LIMITED		Survey Date: 28/03/24

WALKOVER PHOTOGRAPHS

1



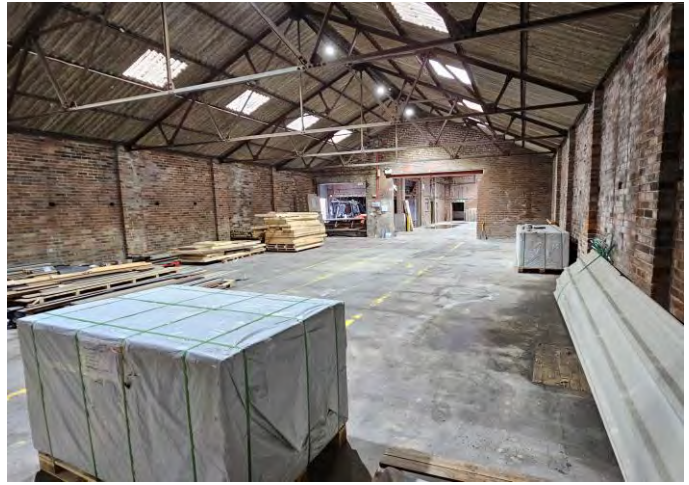
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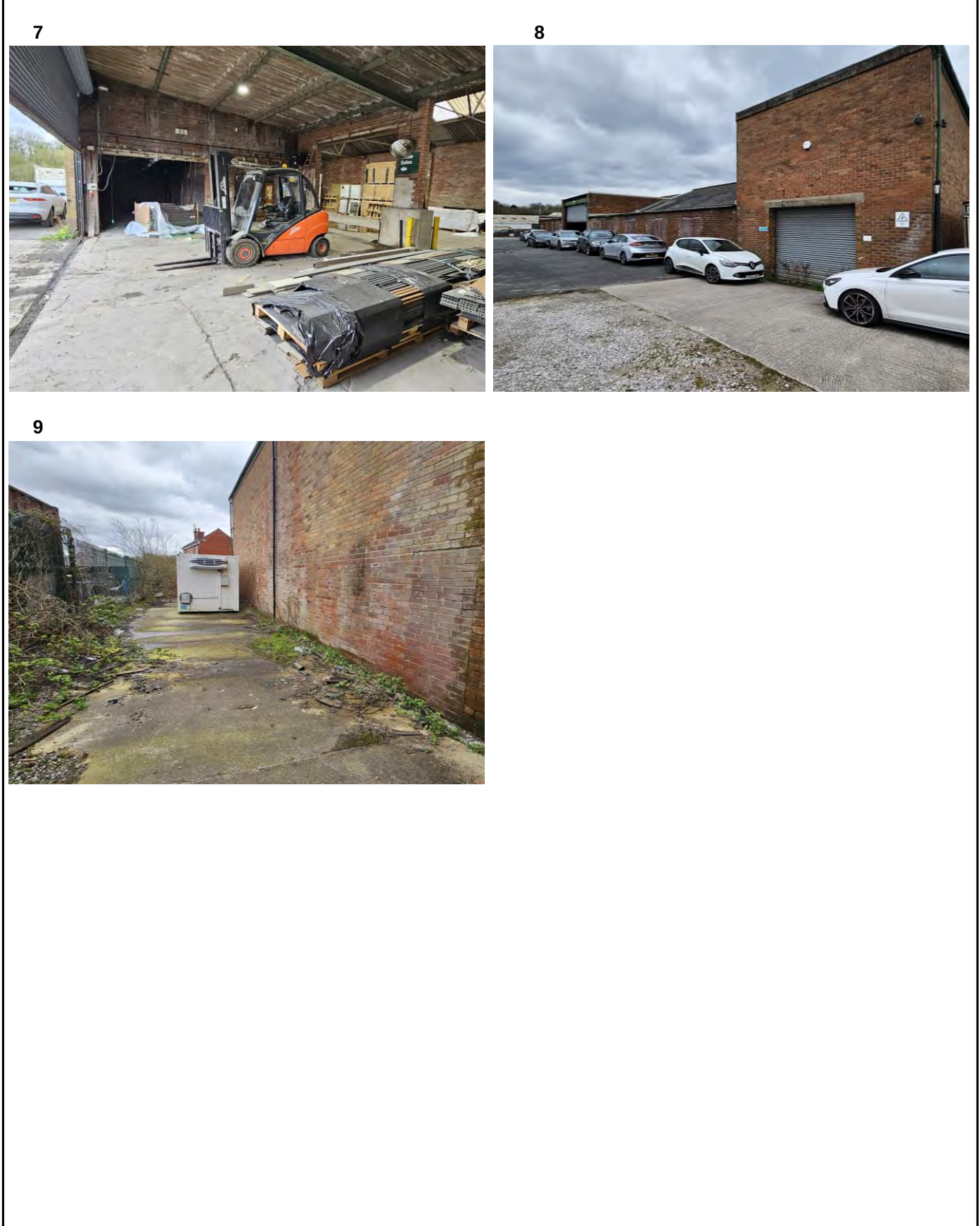


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WALKOVER PHOTOGRAPHS



ENVIRO+GEO INSIGHT REPORT



5 Lawrence Street, Bury, BL9 9SS

Order Details

Date: 06/03/2024
Your ref: CMAPS-CM-1153321-4199-060324
Our Ref: CMAPS-CM-1153321-4199-060324EDRGeo

Site Details

Location: 380718 407985
Area: 0.11 ha
Authority: [Bury Metropolitan Borough Council](#) ↗



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Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

[p.13 >](#)

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Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

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 >	0	1	29	58	-
18 >	1.2 >	Historical tanks >	0	2	12	72	-
21 >	1.3 >	Historical energy features >	0	0	1	16	-
22	1.4	Historical petrol stations	0	0	0	0	-
22 >	1.5 >	Historical garages >	3	2	1	7	-
23	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
24 >	2.1 >	Historical industrial land uses >	0	1	39	93	-
29 >	2.2 >	Historical tanks >	0	2	19	132	-
35 >	2.3 >	Historical energy features >	0	0	2	30	-
37	2.4	Historical petrol stations	0	0	0	0	-
37 >	2.5 >	Historical garages >	7	4	2	12	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
39	3.1	Active or recent landfill	0	0	0	0	-
39	3.2	Historical landfill (BGS records)	0	0	0	0	-
40	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
40 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
40	3.5	Historical waste sites	0	0	0	0	-
40 >	3.6 >	Licensed waste sites >	0	0	1	0	-
41 >	3.7 >	Waste exemptions >	0	0	2	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
42 >	4.1 >	Recent industrial land uses >	0	2	4	-	-
43 >	4.2 >	Current or recent petrol stations >	0	0	1	1	-
43	4.3	Electricity cables	0	0	0	0	-
43	4.4	Gas pipelines	0	0	0	0	-
44	4.5	Sites determined as Contaminated Land	0	0	0	0	-



44	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
44	4.7	Regulated explosive sites	0	0	0	0	-
44	4.8	Hazardous substance storage/usage	0	0	0	0	-
44	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
45 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	25	0	-
49 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	3	-
49	4.12	Radioactive Substance Authorisations	0	0	0	0	-
49 >	4.13 >	Licensed Discharges to controlled waters >	0	0	3	17	-
53	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
53 >	4.16 >	List 1 Dangerous Substances >	0	0	0	3	-
53	4.17	List 2 Dangerous Substances	0	0	0	0	-
54 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	10	-
55 >	4.19 >	Pollution inventory substances >	0	0	0	29	-
64 >	4.20 >	Pollution inventory waste transfers >	0	0	0	1	-
64	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
65 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
67 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
68 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
69	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
69	5.5	Groundwater vulnerability- local information	None (within 0m)				
70 >	5.6 >	Groundwater abstractions >	0	0	0	5	16
76 >	5.7 >	Surface water abstractions >	0	0	0	0	20
81 >	5.8 >	Potable abstractions >	0	0	0	0	5
82	5.9	Source Protection Zones	0	0	0	0	-
83	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	6.1 >	Water Network (OS MasterMap) >	0	0	6	-	-



85 >	6.2 >	Surface water features >	0	0	2	-	-
85 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
86 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
86 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
87	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
87	7.2	Historical Flood Events	0	0	0	-	-
87	7.3	Flood Defences	0	0	0	-	-
88	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
88	7.5	Flood Storage Areas	0	0	0	-	-
89	7.6	Flood Zone 2	None (within 50m)				
89	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
90 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
92 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
93	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
94	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
94	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
94	10.4	Special Protection Areas (SPA)	0	0	0	0	0
94	10.5	National Nature Reserves (NNR)	0	0	0	0	0
95 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
95	10.7	Designated Ancient Woodland	0	0	0	0	0
95	10.8	Biosphere Reserves	0	0	0	0	0
95	10.9	Forest Parks	0	0	0	0	0
96	10.10	Marine Conservation Zones	0	0	0	0	0
96 >	10.11 >	Green Belt >	0	0	2	0	3
96	10.12	Proposed Ramsar sites	0	0	0	0	0



96	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
97	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
97	10.15	Nitrate Sensitive Areas	0	0	0	0	0
97	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
98 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
99	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
100	11.1	World Heritage Sites	0	0	0	-	-
101	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
101	11.3	National Parks	0	0	0	-	-
101 >	11.4 >	Listed Buildings >	0	0	1	-	-
102	11.5	Conservation Areas	0	0	0	-	-
102	11.6	Scheduled Ancient Monuments	0	0	0	-	-
102	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
103 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
104	12.2	Open Access Land	0	0	0	-	-
104	12.3	Tree Felling Licences	0	0	0	-	-
104	12.4	Environmental Stewardship Schemes	0	0	0	-	-
104	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
105 >	13.1 >	Priority Habitat Inventory >	0	0	10	-	-
106 >	13.2 >	Habitat Networks >	0	0	3	-	-
106	13.3	Open Mosaic Habitat	0	0	0	-	-
107	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
108 >	14.1 >	10k Availability >	Identified (within 500m)				
109 >	14.2 >	Artificial and made ground (10k) >	0	0	7	3	-
111 >	14.3 >	Superficial geology (10k) >	1	1	3	4	-

112	14.4	Landslip (10k)	0	0	0	0	-
113 >	14.5 >	Bedrock geology (10k) >	1	0	2	5	-
114 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	3	7	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	15.1 >	50k Availability >	Identified (within 500m)				
116 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
117	15.3	Artificial ground permeability (50k)	0	0	-	-	-
118 >	15.4 >	Superficial geology (50k) >	1	1	3	3	-
119 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
119	15.6	Landslip (50k)	0	0	0	0	-
119	15.7	Landslip permeability (50k)	None (within 50m)				
120 >	15.8 >	Bedrock geology (50k) >	1	0	1	5	-
121 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
121 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	5	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
123	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
124 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
125 >	17.2 >	Running sands >	Very low (within 50m)				
126 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
127 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
128 >	17.5 >	Landslides >	Very low (within 50m)				
129 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
131	18.1	BritPits	0	0	0	0	-
132 >	18.2 >	Surface ground workings >	0	1	21	-	-
133	18.3	Underground workings	0	0	0	0	0
133	18.4	Underground mining extents	0	0	0	0	-
133	18.5	Historical Mineral Planning Areas	0	0	0	0	-



133	18.6	Non-coal mining	0	0	0	0	0
133	18.7	JPB mining areas	None (within 0m)				
134	18.8	The Coal Authority non-coal mining	0	0	0	0	-
134	18.9	Researched mining	0	0	0	0	-
134	18.10	Mining record office plans	0	0	0	0	-
134	18.11	BGS mine plans	0	0	0	0	-
135 >	18.12 >	Coal mining >	Identified (within 0m)				
135	18.13	Brine areas	None (within 0m)				
135	18.14	Gypsum areas	None (within 0m)				
135	18.15	Tin mining	None (within 0m)				
135	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
136	19.1	Natural cavities	0	0	0	0	-
136	19.2	Mining cavities	0	0	0	0	0
136	19.3	Reported recent incidents	0	0	0	0	-
136	19.4	Historical incidents	0	0	0	0	-
137	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
138 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
140 >	21.1 >	BGS Estimated Background Soil Chemistry >	3	0	-	-	-
140	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
140	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
141	22.1	Underground railways (London)	0	0	0	-	-
141	22.2	Underground railways (Non-London)	0	0	0	-	-
141	22.3	Railway tunnels	0	0	0	-	-
141	22.4	Historical railway and tunnel features	0	0	0	-	-
141	22.5	Royal Mail tunnels	0	0	0	-	-

142	22.6	Historical railways	0	0	0	-	-
142	22.7	Railways	0	0	0	-	-
142	22.8	Crossrail 1	0	0	0	0	-
142	22.9	Crossrail 2	0	0	0	0	-
142	22.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.11ha



Recent site history - 2015 aerial photograph



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Capture Date: 11/06/2015

Site Area: 0.11ha



Recent site history - 2011 aerial photograph



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Capture Date: 01/05/2011

Site Area: 0.11ha



Recent site history - 2000 aerial photograph



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Capture Date: 27/06/2000

Site Area: 0.11ha



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Date: 6 March 2024

OS MasterMap site plan



Site Area: 0.11ha



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

Records within 500m 88

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	21m N	Refuse Heap	1965	677982

ID	Location	Land use	Dates present	Group ID
B	97m N	Unspecified Depot	1974	668816
2	110m NE	Cuttings	1965	642591
C	120m NE	Unspecified Mills	1955	700103
C	123m NE	Bleaching and Finishing Mills	1965	693882
B	126m N	Filter Beds	1928	710856
D	142m NE	Unspecified Mills	1891	725054
C	143m NE	Unspecified Mills	1908 - 1938	731631
E	160m S	Print Works	1851 - 1891	752642
E	166m S	Dye Works	1938 - 1955	763004
E	166m S	Unspecified Works	1965 - 1974	733058
E	166m S	Unspecified Commercial/Industrial	1907	643333
E	166m S	Dye Works	1915 - 1932	753920
3	170m SE	Smithy	1851	692994
B	172m N	Filter Beds	1908	697195
B	172m N	Filter Beds	1938 - 1955	711543
B	174m N	Unspecified Tanks	1908 - 1928	772853
F	175m W	Sewage Works	1981	787106
F	179m W	Sewage Works	1974	758926
F	180m W	Unspecified Works	1965	679047
F	181m W	Sewage Works	1907	738790
F	181m W	Sewage Works	1915 - 1955	786107
4	203m NW	Unspecified Ground Workings	1908	648190
D	209m N	Print Works	1851	680239
G	212m SE	Smithy	1974	734273
G	214m SE	Smithy	1938	710446
G	218m SE	Smithy	1955	721144
F	236m W	Unspecified Tank	1908	674825
F	237m W	Unspecified Ground Workings	1907	648191



ID	Location	Land use	Dates present	Group ID
F	238m W	Unspecified Tanks	1981	666450
F	252m W	Unspecified Tank	1907 - 1932	700473
F	254m W	Unspecified Tank	1938 - 1955	716621
I	269m NW	Cabinet Works	1955 - 1965	767569
6	292m N	Bleach Works	1851	658157
I	295m NW	Unspecified Commercial/Industrial	1974 - 1981	774222
E	301m S	Unspecified Tank	1974 - 1981	721678
I	301m W	Cotton Weaving Mill	1928 - 1938	720424
F	303m W	Unspecified Tanks	1974	703358
F	303m W	Unspecified Tanks	1965	734496
F	304m W	Sewage Works	1938	701259
J	304m NE	Flour Mill	1851	672126
F	305m W	Unspecified Tanks	1907	694169
F	305m W	Unspecified Tanks	1915 - 1932	781203
F	309m W	Sewage Tanks	1955	657314
F	310m W	Unspecified Tanks	1932 - 1938	726516
E	312m S	Unspecified Tank	1907 - 1923	781816
J	316m NE	Unspecified Ground Workings	1908	648192
K	325m NW	Unspecified Tank	1965	674826
K	328m NW	Unspecified Tank	1981	674827
K	328m NW	Chimney	1965 - 1974	698190
E	336m S	Unspecified Tank	1965 - 1981	734717
J	336m NE	Unspecified Mill	1891	656768
F	341m W	Unspecified Tanks	1965 - 1974	722463
E	341m S	Unspecified Tank	1907 - 1932	729691
F	343m W	Filter Beds	1907 - 1923	788606
F	343m W	Unspecified Tanks	1938	743645
F	344m W	Sewage Tanks	1955	657313



ID	Location	Land use	Dates present	Group ID
F	347m W	Unspecified Tanks	1908	747584
L	360m SW	Unspecified Ground Workings	1907 - 1915	765863
L	360m SW	Unspecified Heap	1923	782539
F	362m W	Unspecified Tanks	1915 - 1923	767640
N	379m NW	Unspecified Commercial/Industrial	1974	643334
N	379m NW	Paper Mills	1965	656691
N	379m NW	Unspecified Mills	1981	711239
I	383m W	Cotton Weaving Mill	1965	705007
I	384m W	Weaving Mill	1955	670969
F	405m W	Filter Beds	1907	746097
F	405m W	Filter Beds	1923	753518
F	405m W	Filter Beds	1915	789860
O	413m NE	Unspecified Pit	1928 - 1955	711126
F	418m SW	Sewage Tanks	1981	657312
F	421m W	Unspecified Tanks	1965 - 1974	752748
9	422m SW	Sludge Lagoons	1981	681460
O	430m NE	Sewage Filterbeds	1928 - 1938	729619
O	432m NE	Filter Beds	1955	665792
10	437m SE	Refuse Heap	1965	677978
Q	441m NW	Filter Beds	1965	711703
Q	449m NW	Filter Beds	1928 - 1955	695395
Q	452m NW	Filter Beds	1908	700834
F	456m W	Unspecified Tank	1965	674824
R	462m W	Sludge Beds	1981	757718
N	464m NW	Unspecified Mills	1891	758046
F	468m W	Unspecified Tanks	1965 - 1974	743387
N	470m NW	Unspecified Mills	1908 - 1938	712213
F	470m W	Sewage Tanks	1981	657309



ID	Location	Land use	Dates present	Group ID
S	477m NE	Unspecified Ground Workings	1938	721864
S	477m NE	Unspecified Ground Workings	1908	756602
R	477m W	Sludge Beds	1974	720162

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

86

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
A	2m NW	Unspecified Tank	1992	84765
A	12m NW	Unspecified Tank	1982	84766
B	174m N	Tanks	1910	87871
B	174m N	Settling Tanks	1930 - 1937	94605
B	177m N	Settling Tanks	1956	99541
B	177m N	Settling Tanks	1956 - 1967	98368
E	237m S	Tanks	1909	87875
F	238m W	Unspecified Tank	1910 - 1937	98189
F	239m W	Unspecified Tank	1969	84764
E	240m S	Unspecified Tank	1956	94279
E	245m S	Tanks	1922 - 1932	92471
E	247m S	Unspecified Tank	1956	99782
E	247m S	Unspecified Tank	1956	103640
E	247m S	Unspecified Tank	1956	95336
F	257m W	Disused Sludge Tanks	1968 - 1969	98897



ID	Location	Land use	Dates present	Group ID
F	257m W	Sludge Tanks	1956	103294
F	259m W	Tanks	1909 - 1932	93893
F	287m W	Unspecified Tank	1922 - 1932	94699
F	288m W	Settling Tanks	1981 - 1987	97420
F	293m W	Unspecified Tank	1956	98127
F	293m W	Unspecified Tank	1970	94777
F	293m W	Unspecified Tank	1956	99183
F	293m W	Unspecified Tank	1956	100431
F	293m W	Unspecified Tank	1969	93547
F	295m W	Unspecified Tank	1956	94723
E	295m S	Tanks	1956	91358
E	296m S	Tanks	1956	91977
7	299m S	Unspecified Tank	1922 - 1932	92956
F	305m W	Settling Tanks	1956 - 1969	91208
E	307m S	Unspecified Tank	1956	85028
F	308m W	Settling Tanks	1932	92173
F	308m W	Tanks	1909 - 1922	101507
E	310m S	Tanks	1956	101428
E	310m S	Tanks	1956	92536
E	312m S	Tanks	1956	99497
E	315m S	Unspecified Tank	1956	85029
E	323m S	Tanks	1956	96468
E	324m S	Unspecified Tank	1956	97174
F	331m W	Unspecified Tank	1956 - 1969	96786
F	340m W	Tanks	1956 - 1969	101963
F	340m W	Tanks	1956 - 1968	94775
F	343m W	Tanks	1909 - 1932	89542
C	343m N	Unspecified Tank	1956 - 1967	100813



ID	Location	Land use	Dates present	Group ID
F	347m W	Settling Tanks	1956 - 1968	93519
F	347m W	Tanks	1956	87874
8	348m SE	Unspecified Tank	1992	85030
F	348m W	Tanks	1910	91042
F	348m W	Settling Tanks	1930 - 1937	93373
F	353m W	Unspecified Tank	1956	84767
C	357m N	Unspecified Tank	1956 - 1967	89714
F	363m W	Settling Tanks	1956	93293
F	366m W	Tanks	1922 - 1932	96253
M	379m NW	Unspecified Tank	1995	103120
M	380m NW	Unspecified Tank	1970	100970
M	380m NW	Unspecified Tank	1969	99896
F	383m SW	Aeration Tanks	1981	85898
F	401m W	Aeration Tanks	1956 - 1969	95872
F	401m W	Aeration Tanks	1956	103615
F	403m W	Settling Tanks	1930 - 1937	93336
F	403m W	Aeration Tanks	1981 - 1987	95780
F	405m W	Aeration Tanks	1956 - 1968	92635
F	405m W	Aeration Tanks	1956 - 1981	96856
F	408m W	Aeration Tanks	1956 - 1969	97495
F	409m W	Aeration Tanks	1970	90286
F	417m W	Settling Tanks	1932	101430
F	420m W	Settling Tanks	1956 - 1981	93693
F	423m SW	Tanks	1992	104226
F	423m W	Tanks	1989	96403
F	424m W	Settling Tanks	1981 - 1987	103131
F	447m W	Unspecified Tank	1956	99296
F	448m W	Settling Tanks	1956	95304



ID	Location	Land use	Dates present	Group ID
O	449m NE	Unspecified Tank	1956	93729
O	450m NE	Unspecified Tank	1956	98139
F	459m W	Settling Tanks	1956 - 1987	103088
F	459m W	Tanks	1989	101340
N	462m NW	Unspecified Tank	1956 - 1995	103228
F	477m W	Settling Tanks	1968	99464
F	478m W	Tanks	1989	101671
F	478m W	Settling Tanks	1969	103588
F	480m W	Settling Tanks	1981 - 1987	99521
N	481m NW	Unspecified Tank	1956 - 1970	90252
N	482m NW	Unspecified Tank	1995	96960
F	484m W	Unspecified Tank	1956	97759
F	485m W	Humus Tanks	1968 - 1969	98394
F	485m W	Settlings Tanks	1956	78421
F	495m SW	Tanks	1989	100456

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

17

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
E	219m S	Electricity Substation	1956	51684
H	268m N	Electricity Substation	1956 - 1967	53930
H	275m N	Electricity Substation	1970 - 1992	55391



ID	Location	Land use	Dates present	Group ID
H	275m N	Electricity Transformer	1969	46544
5	278m E	Electricity Transformer	1969 - 1970	53183
F	307m W	Electricity Substation	1995	45647
F	337m W	Electricity Substation	1956	46919
F	337m W	Electricity Substation	1956	50976
F	406m SW	Electricity Substation	1989	47153
F	406m SW	Electricity Substation	1992	56932
F	412m SW	Electricity Substation	1987	51411
F	432m W	Electricity Substation	1992	50559
F	435m W	Electricity Substation	1989	48208
I	461m W	Electricity Substation	1956 - 1970	57139
I	461m W	Electricity Substation	1995	59332
N	472m NW	Electricity Substation	1969 - 1995	56145
11	496m E	Electricity Substation	1969 - 1995	58207

This data is sourced from Ordnance Survey / Groundsure.

1.4 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, 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

13

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 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	Garage	1992	15165
A	On site	Garage	1956 - 1964	18515
A	On site	Garage	1956 - 1968	18535
A	2m SW	Garage	1983	17859
A	2m NW	Garage	1982 - 1992	19674
H	222m N	Garage	1982 - 1992	19141
H	254m NW	Garage	1967 - 1982	17768
H	254m NW	Garage	1969	16477
H	265m NW	Service Station	1956	17788
P	416m S	Garage	1983	17364
P	417m S	Garage	1992	17163
P	467m S	Garage	1983	18476
P	476m S	Garage	1992	16410

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

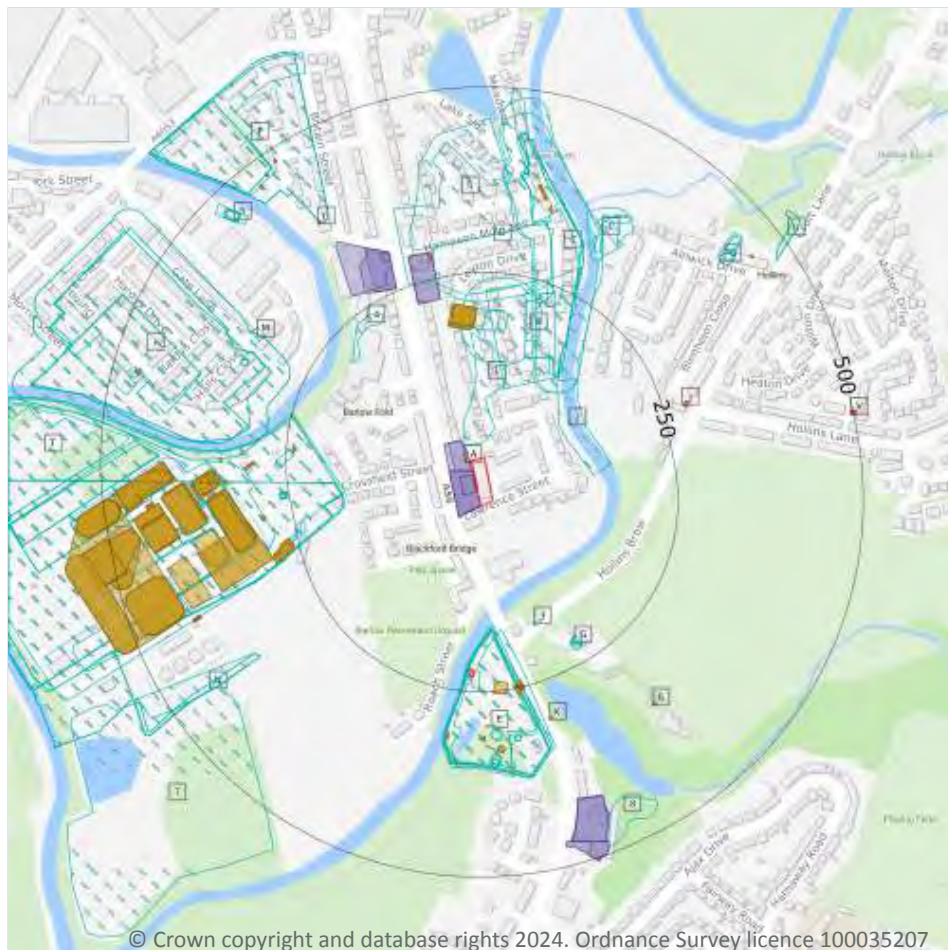
0

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

133

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 24](#) >

ID	Location	Land Use	Date	Group ID
1	21m N	Refuse Heap	1965	677982
B	97m N	Unspecified Depot	1974	668816
2	110m NE	Cuttings	1965	642591



ID	Location	Land Use	Date	Group ID
C	120m NE	Unspecified Mills	1955	700103
C	123m NE	Bleaching and Finishing Mills	1965	693882
B	126m N	Filter Beds	1928	710856
D	142m NE	Unspecified Mills	1891	725054
C	143m NE	Unspecified Mills	1908	731631
C	145m N	Unspecified Mills	1938	731631
C	145m N	Unspecified Mills	1928	731631
E	160m S	Print Works	1891	752642
E	166m S	Dye Works	1938	763004
E	166m S	Unspecified Works	1974	733058
E	166m S	Unspecified Works	1965	733058
E	166m S	Dye Works	1915	753920
E	166m S	Unspecified Commercial/Industrial	1907	643333
E	166m S	Dye Works	1932	753920
E	166m S	Dye Works	1923	753920
E	167m S	Dye Works	1955	763004
E	169m S	Print Works	1851	752642
3	170m SE	Smithy	1851	692994
B	172m N	Filter Beds	1908	697195
B	172m N	Filter Beds	1938	711543
B	174m N	Unspecified Tanks	1928	772853
B	174m N	Unspecified Tanks	1908	772853
F	175m W	Sewage Works	1981	787106
B	176m N	Filter Beds	1955	711543
F	179m W	Sewage Works	1974	758926
F	180m W	Unspecified Works	1965	679047
F	181m W	Sewage Works	1915	786107
F	181m W	Sewage Works	1907	738790



ID	Location	Land Use	Date	Group ID
F	181m W	Sewage Works	1923	786107
4	203m NW	Unspecified Ground Workings	1908	648190
D	209m N	Print Works	1851	680239
G	212m SE	Smithy	1974	734273
G	214m SE	Smithy	1938	710446
G	218m SE	Smithy	1955	721144
F	236m W	Unspecified Tank	1908	674825
F	237m W	Unspecified Ground Workings	1907	648191
F	238m W	Unspecified Tanks	1981	666450
F	252m W	Unspecified Tank	1915	700473
F	252m W	Unspecified Tank	1907	700473
F	252m W	Unspecified Tank	1923	700473
F	254m W	Unspecified Tank	1938	716621
F	254m W	Unspecified Tank	1932	700473
F	256m W	Unspecified Tank	1955	716621
I	269m NW	Cabinet Works	1965	767569
I	269m NW	Cabinet Works	1955	767569
F	281m W	Sewage Works	1955	786107
5	292m N	Bleach Works	1851	658157
I	295m NW	Unspecified Commercial/Industrial	1981	774222
I	295m NW	Unspecified Commercial/Industrial	1974	774222
E	301m S	Unspecified Tank	1981	721678
I	301m W	Cotton Weaving Mill	1938	720424
I	301m W	Cotton Weaving Mill	1928	720424
E	302m S	Unspecified Tank	1974	721678
F	303m W	Unspecified Tanks	1974	703358
F	303m W	Unspecified Tanks	1965	734496
F	304m W	Sewage Works	1932	786107



ID	Location	Land Use	Date	Group ID
F	304m W	Sewage Works	1938	701259
L	304m NE	Flour Mill	1851	672126
F	305m W	Unspecified Tanks	1915	781203
F	305m W	Unspecified Tanks	1907	694169
F	305m W	Unspecified Tanks	1923	781203
F	309m W	Sewage Tanks	1955	657314
F	310m W	Unspecified Tanks	1932	726516
F	310m W	Unspecified Tanks	1938	726516
E	312m S	Unspecified Tank	1915	781816
E	312m S	Unspecified Tank	1907	781816
E	312m S	Unspecified Tank	1923	781816
L	316m NE	Unspecified Ground Workings	1908	648192
M	325m NW	Unspecified Tank	1965	674826
M	328m NW	Unspecified Tank	1981	674827
M	328m NW	Chimney	1974	698190
M	328m NW	Chimney	1965	698190
E	336m S	Unspecified Tank	1981	734717
L	336m NE	Unspecified Mill	1891	656768
E	336m S	Unspecified Tank	1974	734717
E	336m S	Unspecified Tank	1965	734717
F	341m W	Unspecified Tanks	1974	722463
E	341m S	Unspecified Tank	1915	729691
E	341m S	Unspecified Tank	1907	729691
E	341m S	Unspecified Tank	1932	729691
E	341m S	Unspecified Tank	1923	729691
F	342m W	Unspecified Tanks	1965	722463
F	343m W	Filter Beds	1915	788606
F	343m W	Filter Beds	1907	788606



ID	Location	Land Use	Date	Group ID
F	343m W	Filter Beds	1923	788606
F	343m W	Unspecified Tanks	1932	781203
F	343m W	Unspecified Tanks	1938	743645
F	344m W	Sewage Tanks	1955	657313
F	347m W	Unspecified Tanks	1908	747584
N	360m SW	Unspecified Ground Workings	1915	765863
N	360m SW	Unspecified Ground Workings	1907	765863
N	360m SW	Unspecified Heap	1923	782539
F	362m W	Unspecified Tanks	1923	767640
F	365m W	Unspecified Tanks	1915	767640
P	379m NW	Unspecified Mills	1981	711239
P	379m NW	Unspecified Commercial/Industrial	1974	643334
P	379m NW	Paper Mills	1965	656691
I	383m W	Cotton Weaving Mill	1965	705007
I	384m W	Weaving Mill	1955	670969
F	405m W	Filter Beds	1915	789860
F	405m W	Filter Beds	1907	746097
F	405m W	Filter Beds	1923	753518
Q	413m NE	Unspecified Pit	1938	711126
Q	413m NE	Unspecified Pit	1928	711126
Q	414m NE	Unspecified Pit	1955	711126
F	418m SW	Sewage Tanks	1981	657312
F	421m W	Unspecified Tanks	1974	752748
7	422m SW	Sludge Lagoons	1981	681460
F	422m W	Unspecified Tanks	1965	752748
Q	430m NE	Sewage Filterbeds	1938	729619
Q	430m NE	Sewage Filterbeds	1928	729619
Q	432m NE	Filter Beds	1955	665792



ID	Location	Land Use	Date	Group ID
8	437m SE	Refuse Heap	1965	677978
S	441m NW	Filter Beds	1965	711703
S	449m NW	Filter Beds	1938	695395
S	449m NW	Filter Beds	1928	695395
S	452m NW	Filter Beds	1908	700834
S	453m NW	Filter Beds	1955	695395
F	456m W	Unspecified Tank	1965	674824
T	462m W	Sludge Beds	1981	757718
P	464m NW	Unspecified Mills	1891	758046
F	468m W	Unspecified Tanks	1965	743387
P	470m NW	Unspecified Mills	1938	712213
P	470m NW	Unspecified Mills	1928	712213
P	470m NW	Unspecified Mills	1908	712213
F	470m W	Sewage Tanks	1981	657309
F	470m W	Unspecified Tanks	1974	743387
U	477m NE	Unspecified Ground Workings	1938	721864
U	477m NE	Unspecified Ground Workings	1908	756602
T	477m W	Sludge Beds	1974	720162

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

153

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 24 >](#)

ID	Location	Land Use	Date	Group ID
A	2m NW	Unspecified Tank	1992	84765
A	12m NW	Unspecified Tank	1982	84766



ID	Location	Land Use	Date	Group ID
B	174m N	Tanks	1910	87871
B	174m N	Settling Tanks	1930	94605
B	174m N	Settling Tanks	1937	94605
B	177m N	Settling Tanks	1956	99541
B	177m N	Settling Tanks	1956	98368
B	177m N	Settling Tanks	1967	98368
E	237m S	Tanks	1909	87875
F	238m W	Unspecified Tank	1910	98189
F	238m W	Unspecified Tank	1930	98189
F	238m W	Unspecified Tank	1937	98189
F	239m W	Unspecified Tank	1969	84764
E	240m S	Unspecified Tank	1956	94279
E	240m S	Unspecified Tank	1956	94279
E	245m S	Tanks	1922	92471
E	245m S	Tanks	1932	92471
E	247m S	Unspecified Tank	1956	99782
E	247m S	Unspecified Tank	1956	99782
E	247m S	Unspecified Tank	1956	103640
E	247m S	Unspecified Tank	1956	95336
F	257m W	Disused Sludge Tanks	1969	98897
F	257m W	Sludge Tanks	1956	103294
F	257m W	Sludge Tanks	1956	103294
F	257m W	Disused Sludge Tanks	1968	98897
F	259m W	Tanks	1909	93893
F	259m W	Tanks	1922	93893
F	259m W	Tanks	1932	93893
F	287m W	Unspecified Tank	1922	94699
F	287m W	Unspecified Tank	1932	94699



ID	Location	Land Use	Date	Group ID
F	288m W	Settling Tanks	1981	97420
F	288m W	Settling Tanks	1987	97420
F	293m W	Unspecified Tank	1956	98127
F	293m W	Unspecified Tank	1956	99183
F	293m W	Unspecified Tank	1970	94777
F	293m W	Unspecified Tank	1956	100431
F	293m W	Unspecified Tank	1969	93547
F	295m W	Unspecified Tank	1956	94723
E	295m S	Tanks	1956	91358
E	296m S	Tanks	1956	91977
K	299m S	Unspecified Tank	1922	92956
K	299m S	Unspecified Tank	1932	92956
F	305m W	Settling Tanks	1956	91208
F	305m W	Settling Tanks	1968	91208
F	306m W	Settling Tanks	1969	91208
F	306m W	Settling Tanks	1956	91208
E	307m S	Unspecified Tank	1956	85028
F	308m W	Tanks	1909	101507
F	308m W	Tanks	1922	101507
F	308m W	Settling Tanks	1932	92173
E	310m S	Tanks	1956	101428
E	310m S	Tanks	1956	92536
E	312m S	Tanks	1956	99497
E	312m S	Tanks	1956	99497
E	315m S	Unspecified Tank	1956	85029
E	323m S	Tanks	1956	96468
E	324m S	Tanks	1956	96468
E	324m S	Unspecified Tank	1956	97174



ID	Location	Land Use	Date	Group ID
E	324m S	Unspecified Tank	1956	97174
F	331m W	Unspecified Tank	1969	96786
F	331m W	Unspecified Tank	1956	96786
F	331m W	Unspecified Tank	1956	96786
F	331m W	Unspecified Tank	1968	96786
F	340m W	Tanks	1969	101963
F	340m W	Tanks	1956	101963
F	340m W	Tanks	1956	94775
F	340m W	Tanks	1968	94775
F	343m W	Tanks	1909	89542
F	343m W	Tanks	1922	89542
F	343m W	Tanks	1932	89542
C	343m N	Unspecified Tank	1956	100813
C	343m N	Unspecified Tank	1967	100813
C	344m N	Unspecified Tank	1956	100813
F	347m W	Settling Tanks	1956	93519
F	347m W	Settling Tanks	1968	93519
F	347m W	Tanks	1956	87874
6	348m SE	Unspecified Tank	1992	85030
F	348m W	Tanks	1910	91042
F	348m W	Settling Tanks	1930	93373
F	348m W	Settling Tanks	1937	93373
F	353m W	Unspecified Tank	1956	84767
C	357m N	Unspecified Tank	1956	89714
C	357m N	Unspecified Tank	1967	89714
C	357m N	Unspecified Tank	1956	89714
F	363m W	Settling Tanks	1956	93293
F	365m W	Settling Tanks	1956	93293



ID	Location	Land Use	Date	Group ID
F	366m W	Tanks	1922	96253
F	366m W	Tanks	1932	96253
O	379m NW	Unspecified Tank	1995	103120
O	380m NW	Unspecified Tank	1970	100970
O	380m NW	Unspecified Tank	1969	99896
F	383m SW	Aeration Tanks	1981	85898
F	401m W	Aeration Tanks	1968	95872
F	401m W	Aeration Tanks	1956	103615
F	402m W	Aeration Tanks	1969	95872
F	402m W	Aeration Tanks	1956	95872
F	403m W	Settling Tanks	1930	93336
F	403m W	Settling Tanks	1937	93336
F	403m W	Aeration Tanks	1981	95780
F	403m W	Aeration Tanks	1987	95780
F	405m W	Aeration Tanks	1956	92635
F	405m W	Aeration Tanks	1968	92635
F	405m W	Aeration Tanks	1969	96856
F	405m W	Aeration Tanks	1956	96856
F	407m W	Aeration Tanks	1981	96856
F	408m W	Aeration Tanks	1956	97495
F	408m W	Aeration Tanks	1969	97495
F	409m W	Aeration Tanks	1956	95872
F	409m W	Aeration Tanks	1970	90286
F	417m W	Settling Tanks	1932	101430
F	420m W	Settling Tanks	1956	93693
F	420m W	Settling Tanks	1968	93693
F	420m W	Settling Tanks	1969	93693
F	420m W	Settling Tanks	1956	93693



ID	Location	Land Use	Date	Group ID
F	421m W	Settling Tanks	1981	93693
F	423m SW	Tanks	1992	104226
F	423m W	Tanks	1989	96403
F	423m W	Tanks	1989	96403
F	424m W	Settling Tanks	1981	103131
F	424m W	Settling Tanks	1987	103131
F	447m W	Unspecified Tank	1956	99296
F	448m W	Unspecified Tank	1956	99296
F	448m W	Settling Tanks	1956	95304
F	448m W	Settling Tanks	1956	95304
Q	449m NE	Unspecified Tank	1956	93729
Q	450m NE	Unspecified Tank	1956	98139
F	459m W	Settling Tanks	1987	103088
F	459m W	Tanks	1989	101340
F	459m W	Tanks	1989	101340
P	462m NW	Unspecified Tank	1956	103228
P	463m NW	Unspecified Tank	1956	103228
P	463m NW	Unspecified Tank	1970	103228
P	463m NW	Unspecified Tank	1995	103228
P	463m NW	Unspecified Tank	1969	103228
F	477m W	Settling Tanks	1968	99464
F	478m W	Tanks	1989	101671
F	478m W	Tanks	1989	101671
F	478m W	Settling Tanks	1969	103588
F	480m W	Settling Tanks	1981	99521
F	480m W	Settling Tanks	1987	99521
P	481m NW	Unspecified Tank	1956	90252
P	481m NW	Unspecified Tank	1970	90252



ID	Location	Land Use	Date	Group ID
P	481m NW	Unspecified Tank	1956	90252
P	481m NW	Unspecified Tank	1969	90252
P	482m NW	Unspecified Tank	1995	96960
F	484m W	Unspecified Tank	1956	97759
F	484m W	Unspecified Tank	1956	97759
F	485m W	Settling Tanks	1956	103088
F	485m W	Humus Tanks	1968	98394
F	485m W	Humus Tanks	1969	98394
F	485m W	Settlings Tanks	1956	78421
F	495m SW	Tanks	1989	100456
F	495m SW	Tanks	1989	100456

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

32

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 24 >](#)

ID	Location	Land Use	Date	Group ID
E	219m S	Electricity Substation	1956	51684
E	220m S	Electricity Substation	1956	51684
H	268m N	Electricity Substation	1956	53930
H	268m N	Electricity Substation	1967	53930
H	268m N	Electricity Substation	1956	53930
H	275m N	Electricity Substation	1992	55391
H	275m N	Electricity Transformer	1969	46544
H	275m N	Electricity Substation	1970	55391
H	275m N	Electricity Substation	1982	55391



ID	Location	Land Use	Date	Group ID
J	278m E	Electricity Transformer	1970	53183
J	278m E	Electricity Transformer	1969	53183
F	307m W	Electricity Substation	1995	45647
F	337m W	Electricity Substation	1956	46919
F	337m W	Electricity Substation	1956	50976
F	406m SW	Electricity Substation	1989	47153
F	406m SW	Electricity Substation	1989	47153
F	406m SW	Electricity Substation	1992	56932
F	412m SW	Electricity Substation	1987	51411
F	432m W	Electricity Substation	1992	50559
F	435m W	Electricity Substation	1989	48208
F	435m W	Electricity Substation	1989	48208
I	461m W	Electricity Substation	1956	57139
I	461m W	Electricity Substation	1969	57139
I	461m W	Electricity Substation	1995	59332
I	461m W	Electricity Substation	1956	57139
I	461m W	Electricity Substation	1970	57139
P	472m NW	Electricity Substation	1970	56145
P	473m NW	Electricity Substation	1995	56145
P	473m NW	Electricity Substation	1969	56145
V	496m E	Electricity Substation	1970	58207
V	496m E	Electricity Substation	1995	58207
V	497m E	Electricity Substation	1969	58207

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

25

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 24 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1992	15165
A	On site	Garage	1964	18535
A	On site	Garage	1964	18515
A	On site	Garage	1956	18535
A	On site	Garage	1956	18515
A	On site	Garage	1956	18535
A	On site	Garage	1968	18535
A	2m SW	Garage	1983	17859
A	2m SW	Garage	1983	17859
A	2m NW	Garage	1992	19674
A	2m NW	Garage	1982	19674
H	222m N	Garage	1982	19141
H	222m N	Garage	1992	19141
H	254m NW	Garage	1967	17768
H	254m NW	Garage	1970	17768
H	254m NW	Garage	1982	17768



ID	Location	Land Use	Date	Group ID
H	254m NW	Garage	1969	16477
H	265m NW	Service Station	1956	17788
H	290m NW	Service Station	1956	17788
R	416m S	Garage	1983	17364
R	416m S	Garage	1983	17364
R	417m S	Garage	1992	17163
R	467m S	Garage	1983	18476
R	467m S	Garage	1983	18476
R	476m S	Garage	1992	16410

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Licensed waste sites
- Waste exemptions

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

0

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.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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Landfill sites identified from Local Authority records and high detail historical mapping.

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1
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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 39 >](#)

ID	Location	Details		
2	140m NE	Site Address: Land at White Brow, Holliins Brow, Hollins, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C018 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	1
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 39 >](#)

ID	Location	Details		
A	182m W	Site Name: Bury Wastewater Treatment Works Site Address: Bury Wastewater Treatment Works, Crossfield Street, Blackford Bridge, Bury, Lancashire, BL9 9TF Correspondence Address: -	Type of Site: Biological Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 657054 EPR reference: EA/EPR/BP3292CB Operator: United Utilities Water Limited Waste Management licence No: 50518 Annual Tonnage: 225	Issue Date: 21/12/2007 Effective Date: 21/12/2007 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

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

3.7 Waste exemptions

Records within 500m	2
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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.

Features are displayed on the Waste and landfill map on [page 39 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	121m W	Bury Wastewater Treatment Works, Crossfield Street, Blackford Bridge, Bury, BL9 9TF	WEX127397	Using waste exemption	Not on a farm	Use of sludge for the purposes of re-seeding a waste water treatment plant
A	184m W	BURY WASTE WATER TREATMENT WORKS, CROSSFIELD STREET, BURY, BL9 9TF	WEX013463	Using waste exemption	Not on a farm	Use of waste in construction

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

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- Site Outline**
- Search buffers in metres (m)**
- Recent industrial land uses
 - Current or recent petrol stations
 - Part A(1) industrial activities
 - Licensed pollutant release (Part A(2)/B)
 - Licensed Discharges to controlled waters
 - List 1 Dangerous Substances
 - Pollution Incidents (EA/NRW)
 - Pollution inventory substances
 - Pollution inventory waste transfers

Records within 250m 6

Features are displayed on the Current industrial land use map on [page 42](#) >

ID	Location	Company	Address	Activity	Category
A	10m W	B C C Cars	701, Manchester Road, Bury, Greater Manchester, BL9 9US	New Vehicles	Motoring
A	10m W	The Bury Car Centre	701, Manchester Road, Bury, Greater Manchester, BL9 9US	New Vehicles	Motoring
B	81m SW	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
B	86m SW	Clean Fit	4, Leyland Street, Bury, Greater Manchester, BL9 9TG	Construction Completion Services	Construction Services
D	227m S	Pumping Station	Greater Manchester, BL9	Water Pumping Stations	Industrial Features
E	249m N	Blackford Bridge Service Station	530, Manchester Road, Blackford Bridge, Bury, Greater Manchester, BL9 9ST	Vehicle Cleaning Services	Personal, Consumer and Other Services

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 42 >](#)

ID	Location	Company	Address	LPG	Status
1	54m NW	UNBRANDED	Manchester Road, Blackbridge, Bury, Greater Manchester, BL9 9NS	Not Applicable	Obsolete
E	269m N	BP	530, Manchester Road, Blackford Bridge, Bury, Greater Manchester, BL9 9ST	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

25

Records of Part A(1) 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 42](#) >

ID	Location	Details	
C	191m W	Operator: UNITED UTILITIES WATER LIMITED Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: SP3631LL Original Permit Number: SP3631LL	EPR Reference: EPR/SP3631LL Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 23/11/2023 Status: Effective
C	191m W	Operator: UNITED UTILITIES WATER LIMITED Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: SP3631LL Original Permit Number: SP3631LL	EPR Reference: EPR/SP3631LL Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 23/11/2023 Status: Effective
C	191m W	Operator: UNITED UTILITIES WATER LIMITED Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: ASSOCIATED PROCESS Permit Number: SP3631LL Original Permit Number: SP3631LL	EPR Reference: EPR/SP3631LL Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 23/11/2023 Status: Effective
C	191m W	Operator: UNITED UTILITIES WATER PLC Installation Name: BURY WASTE WATER TREATMENT WORKS SLUDGE TREATMENT FACILITY Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: GP3734NB Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
C	191m W	Operator: UNITED UTILITIES WATER PLC Installation Name: BURY WASTE WATER TREATMENT WORKS SLUDGE TREATMENT FACILITY Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: GP3734NB Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE



ID	Location	Details	
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: BP3238HC Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 02/02/2011 Effective Date: 02/02/2011 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: BP3238HC Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 02/02/2011 Effective Date: 02/02/2011 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WwTW EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: HP3931WT Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/03/2015 Effective Date: 16/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: ZP3504SA Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 21/03/2023 Status: Effective
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: ZP3504SA Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 21/03/2023 Status: Effective
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: GP3533YX Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 24/03/2017 Effective Date: 24/03/2017 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: SP3631LL Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 24/10/2007 Effective Date: 24/10/2007 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: ASSOCIATED PROCESS Permit Number: GP3533YX Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 24/03/2017 Effective Date: 24/03/2017 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: GP3533YX Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 24/03/2017 Effective Date: 24/03/2017 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: EP3432KH Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 15/10/2009 Effective Date: 15/10/2009 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: GP3734NB Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: SP3631LL Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 24/10/2007 Effective Date: 24/10/2007 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: WP3836KD Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 04/03/2010 Effective Date: 04/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WwTW EPR/SP3631LL Process: ASSOCIATED PROCESS Permit Number: HP3931WT Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/03/2015 Effective Date: 16/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WwTW EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: HP3931WT Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/03/2015 Effective Date: 16/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Limited Installation Name: Bury WTW Sludge Treatment Facility - EPR/SP3631LL Process: ASSOCIATED PROCESS Permit Number: ZP3504SA Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 16/12/2020 Effective Date: 16/12/2020 Last date noted as effective: 21/03/2023 Status: Effective
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: EP3432KH Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 15/10/2009 Effective Date: 15/10/2009 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: ASSOCIATED PROCESS Permit Number: GP3734NB Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: GP3734NB Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 29/05/2013 Effective Date: 29/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
C	191m W	Operator: United Utilities Water Plc Installation Name: Bury WwTW EPR/SP3631LL Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: WP3836KD Original Permit Number: SP3631LL	EPR Reference: - Issue Date: 04/03/2010 Effective Date: 04/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded

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
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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 42 >](#)

ID	Location	Address	Details	
E	253m N	Euro Garage Station, Blackford Bridge, 533 Manchester Road, Bury, BL9 9SH	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	489m S	Walker Farrimond Volvo Ltd, Manchester Road, Bury, BL9 9TT	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	489m S	Walker Farrimond Volvo Ltd, Manchester Road, Bury, BL9 9TT	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies 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	20
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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 42 >](#)

ID	Location	Address	Details	
D	222m S	MANCHESTER ROAD CSO, 722 MANCHESTER ROAD, BURY, GREATER MANCHESTER, BL9 9TR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982936 Permit Version: 1 Receiving Water: PARR BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 14/06/1995 Revocation Date: 16/11/1995
D	222m S	MANCHESTER ROAD CSO, 722 MANCHESTER ROAD, BURY, GREATER MANCHESTER, BL9 9TR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982936 Permit Version: 2 Receiving Water: PARR BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 17/11/1995 Revocation Date: 22/11/2018
D	222m S	MANCHESTER ROAD CSO, 722 MANCHESTER ROAD, BURY, GREATER MANCHESTER, BL9 9TR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982936 Permit Version: 3 Receiving Water: THE RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 23/11/2018 Effective Date: 23/11/2018 Revocation Date: -
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950033 Permit Version: 8 Receiving Water: RIVER IRWELL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 15/12/2008 Effective Date: 15/12/2008 Revocation Date: 30/12/2008
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950033 Permit Version: 14 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 10/12/2021 Effective Date: 01/04/2022 Revocation Date: 30/05/2023
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950033 Permit Version: 9 Receiving Water: RIVER IRWELL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 15/12/2008 Effective Date: 31/12/2008 Revocation Date: 31/12/2009
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950033 Permit Version: 11 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 08/02/2019 Effective Date: 08/02/2019 Revocation Date: 07/12/2021



ID	Location	Address	Details	
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950033 Permit Version: 13 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 10/12/2021 Effective Date: 10/12/2021 Revocation Date: 31/03/2022
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950033 Permit Version: 12 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 08/02/2019 Effective Date: 08/12/2021 Revocation Date: 09/12/2021
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950033 Permit Version: 10 Receiving Water: RIVER IRWELL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/01/2010 Revocation Date: 07/02/2019
F	268m W	BURY WASTEWATER TREATMENT WORKS, CROSSFIELD STREET, BLACKFORD BRIDGE, BURY, GREATER MANCHESTER, BL9 9TF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016950033 Permit Version: 15 Receiving Water: RIVER IRWELL	Status: VARIED UNDER EPR 2010 Issue date: 24/05/2023 Effective Date: 31/05/2023 Revocation Date: -
5	357m NW	RATCLIFFE GROVES DEVELOPMENT SWO, 158/160 DUMERS LANE, RADCLIFFE, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016990651 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/08/1985 Revocation Date: 27/09/1991
H	467m SE	SUNNY BANK ROAD CSO, JNT SUNNY BANK RD /MANCHESTER RD, BURY, GREATER MANCHESTER, BL9 8HE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993479 Permit Version: 1 Receiving Water: PARR BROOK VIA SWS	Status: VARIED UNDER EPR 2010 Issue date: 20/09/2019 Effective Date: 20/09/2019 Revocation Date: -
H	478m SE	LINKSVIEW ESTATE CSO 091BC, 38-50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 2 Receiving Water: PARR BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 28/05/2018



ID	Location	Address	Details	
H	478m SE	LINKSVIEW ESTATE CSO 091BC, 38-50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
H	480m SE	LINKSVIEW ESTATE CSO 091BC, 38-50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 3 Receiving Water: PARR BROOK	Status: VARIED UNDER EPR 2010 Issue date: 29/05/2018 Effective Date: 29/05/2018 Revocation Date: -
J	495m N	MEADWAY WW NTWK PS, MEADWAY, BURY, LANCASHIRE, BL9 9TY	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016982123 Permit Version: 1 Receiving Water: RIVER ROCH	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1900 Revocation Date: 01/01/1900
J	495m N	MEADWAY WW NTWK PS, MEADWAY, BURY, LANCASHIRE, BL9 9TY	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 01BRY0059 Permit Version: 1 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: - Effective Date: 01/01/1995 Revocation Date: 02/09/2010
J	495m N	MEADWAY WW NTWK PS, MEADWAY, BURY, LANCASHIRE, BL9 9TY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0059 Permit Version: 2 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 18/09/2017
J	495m N	MEADWAY WW NTWK PS, MEADWAY, BURY, LANCASHIRE, BL9 9TY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0059 Permit Version: 3 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 19/09/2017 Effective Date: 19/09/2017 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**

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**

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**3**

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.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	257m W	Roeacre Dyeing And Felting Co Ltd	Active	-	-
F	257m W	Mondi Paper Uk	Active	Stw Partcons, Manchester Ship Canal	Mercury (other), Pentachlorophenol
F	257m W	Roeacre Dyeing And Felting Co Ltd	Not Active	River Irwell, Manchester Ship Canal	Pentachlorophenol

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

11

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 42 >](#)

ID	Location	Details	
2	195m S	Incident Date: 04/04/2001 Incident Identification: 1584 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	292m NE	Incident Date: 28/03/2002 Incident Identification: 67243 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	327m NE	Incident Date: 06/08/2001 Incident Identification: 22105 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	329m NE	Incident Date: 13/10/2001 Incident Identification: 36345 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	329m NE	Incident Date: 28/08/2001 Incident Identification: 27123 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	329m NE	Incident Date: 22/08/2001 Incident Identification: 26116 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
G	332m NE	Incident Date: 09/08/2001 Incident Identification: 22948 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
4	335m W	Incident Date: 01/07/2002 Incident Identification: 88443 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
G	374m NE	Incident Date: 04/08/2001 Incident Identification: 21872 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6	388m W	Incident Date: 29/05/2003 Incident Identification: 161572 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	466m SE	Incident Date: 20/08/2003 Incident Identification: 183785 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) 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

29

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.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID: F, Location: 257m W, Permit: 016950033
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: BURY -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Anthracene	0.1kg	1.36kg

ID: F, Location: 257m W, Permit: 016950033
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: BURY -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	745000kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Arsenic	5kg	31kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluoranthene	0.1kg	0.28kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	3790kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Atrazine	0.05kg	0.06kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Mercury	0.1kg	0.92kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Brominated diphenylethers - penta-, octa- and deca-BDE	0.1kg	Below Reporting Threshold
Controlled Waters	Benzo(b)fluoranthene	1kg	Below Reporting Threshold
Controlled Waters	Benzo(k)fluoranthene	1kg	Below Reporting Threshold
Controlled Waters	Octylphenols and octylphenol ethoxylates	1kg	Below Reporting Threshold
Air	Chloroform (Trichloromethane)	100kg	Below Reporting Threshold
Controlled Waters	Carbon tetrachloride (Tetrachloromethane)	1kg	Below Reporting Threshold
Controlled Waters	Chloroform (Trichloromethane)	5kg	Below Reporting Threshold
Controlled Waters	Trichlorobenzene - all isomers	0.01kg	Below Reporting Threshold



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Controlled Waters	Cyanides - as CN	50kg	Below Reporting Threshold
Controlled Waters	Dichloromethane (DCM) (Methylene chloride)	10kg	Below Reporting Threshold
Controlled Waters	Organotin compounds - as Sn	5kg	Below Reporting Threshold
Controlled Waters	Phenols - total as C	20kg	Below Reporting Threshold
Controlled Waters	Chromium	20kg	Below Reporting Threshold
Controlled Waters	Aldrin	0.0005kg	Below Reporting Threshold
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	0.0001kg	Below Reporting Threshold
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as ITEQ	0.0001kg	Below Reporting Threshold

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Lead	20kg	38.8kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cadmium	1kg	4.02kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	483kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Methane	10000kg	15000kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluorides - as F	2000kg	7990kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nonylphenols and nonylphenol ethoxylates	1kg	89.9kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	18700kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chlorides - as Cl	2000000kg	2860000kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	194000kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	0.0242kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(a)pyrene	1kg	1.24kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	1100kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nickel	20kg	190kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Diuron	0.05kg	2.07kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Indeno(1,2,3-cd)pyrene	1kg	1.6kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Di(2-ethylhexyl)phthalate (DEHP)	0.1kg	65.2kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Asbestos	0.1kg	2.83kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Benzene	1000kg	3000kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Zinc	100kg	1500kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(g,h,i)perylene	0.1kg	0.44kg

ID: F, Location: 257m W, Permit: 016950033
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: BURY -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Naphthalene	1kg	37.5kg

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



4.20 Pollution inventory waste transfers

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on [page 42](#) >

ID: F, Location: 257m W, Permit: 016950033
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: BURY -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	229.88	absolute value	19 08 02	waste from desanding	No
D1	Deposit into or onto land (eg landfill, etc.)	171.12	absolute value	19 08 01	screenings	No
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	17089.3	absolute value	19 06 06	digestate from anaerobic treatment of animal and vegetable waste	No
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	9569.8	absolute value	19 08 05	sludges from treatment of urban waste water	No

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

4.21 Pollution inventory radioactive waste

Records within 500m

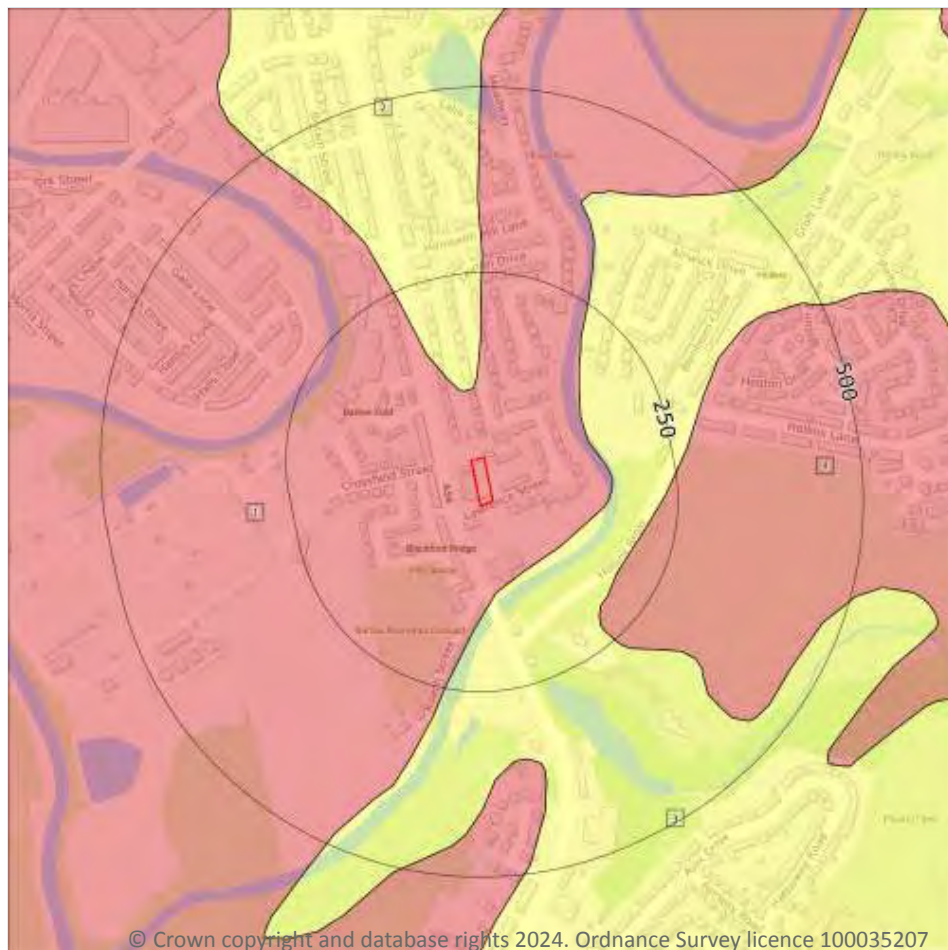
0

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



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

5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 65 >](#)

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	93m N	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

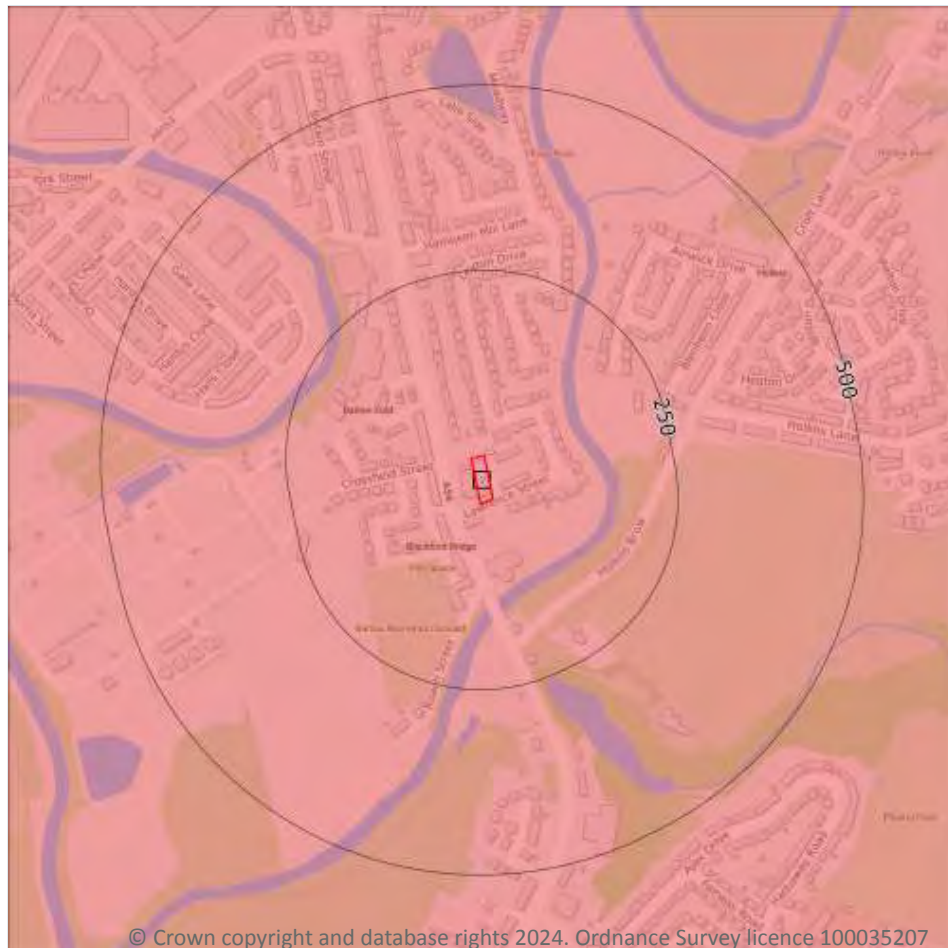


ID	Location	Designation	Description
3	103m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	194m SE	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.



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

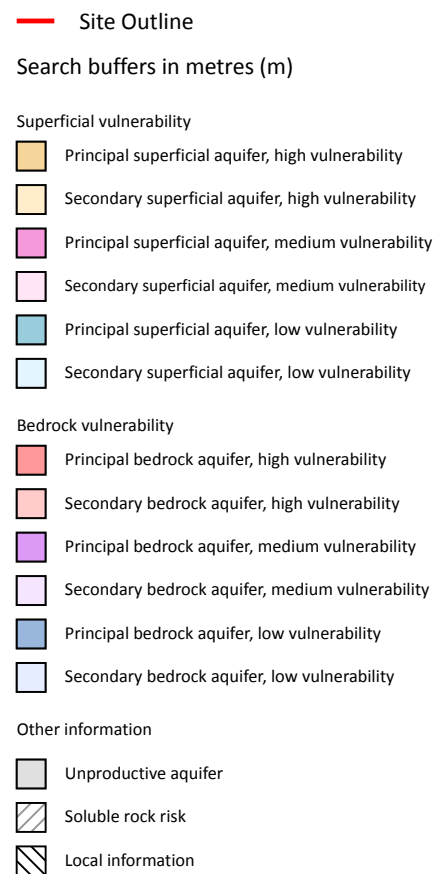
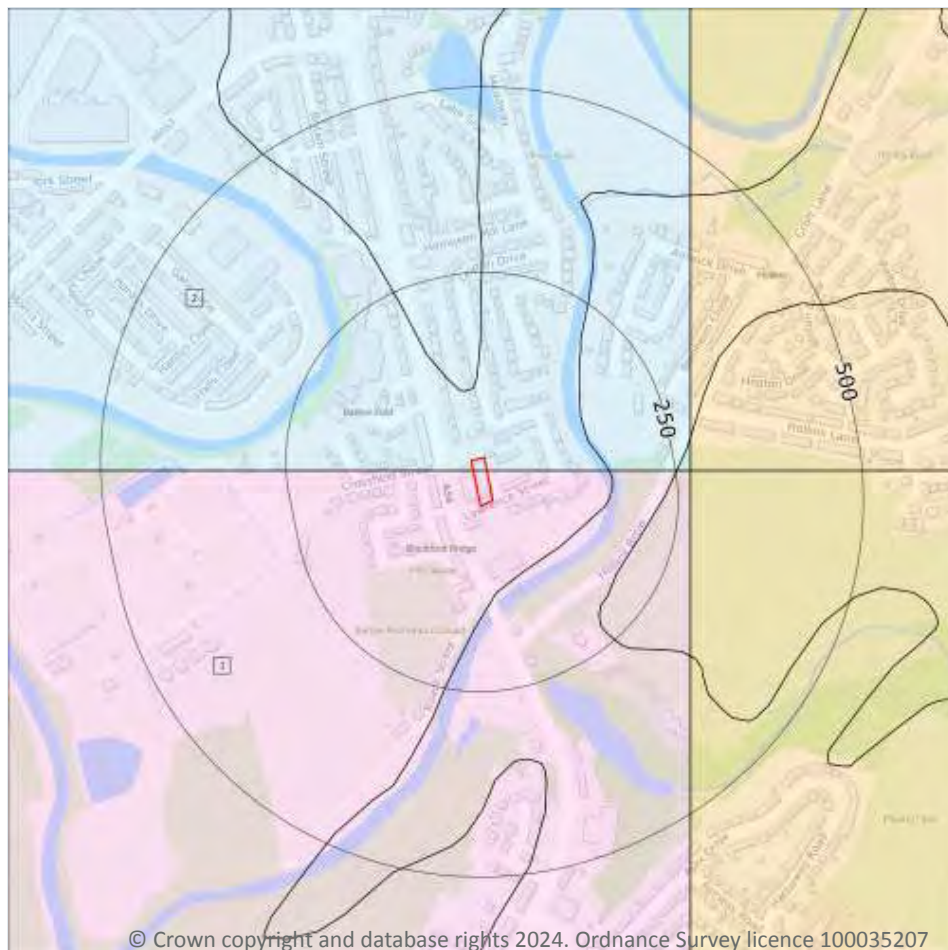
Features are displayed on the Bedrock aquifer map on [page 67](#) >

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

2

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 68](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low 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
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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
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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

21

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 70 >](#)

ID	Location	Details	
A	367m SE	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
A	367m SE	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
A	374m SE	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
A	374m SE	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007



ID	Location	Details	
A	374m SE	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	874m N	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: "WELL POINT SYSTEM AT MANCHESTER ROAD, BURY" Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -
-	874m N	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT MANCHESTER ROAD, BURY Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -
-	1176m NE	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -



ID	Location	Details	
-	1176m NE	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1593m S	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -
-	1594m S	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1594m S	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -



ID	Location	Details	
-	1661m S	Status: Active Licence No: 2569004042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD Data Type: Point Name: DANISH CROWN UK LIMITED Easting: 380900 Northing: 406300	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 21 Original Application No: 2396B Original Start Date: 18/07/1973 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -
-	1661m S	Status: Historical Licence No: 2569004042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD" Data Type: Point Name: DANISH BACON INDEPENDENT DBI LTD Easting: 380900 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1986 Version End Date: -
-	1838m NE	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1966m E	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -



ID	Location	Details	
-	1993m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "WELLPOINT SYSTEM AT PREMISES, RADCLIFFE" Data Type: Point Name: JAMES HALSTEAD LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/01/1995 Version End Date: -
-	1993m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELLPOINT SYSTEM AT PREMISES, RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1993m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT PREMISES RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): 68200 Max Daily Volume (m ³): 382 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1998m NE	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATER FARM, HEAP BRIDGE, BURY" Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -



ID	Location	Details	
-	1998m NE	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATER FARM, HEAP BRIDGE, BURY Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

20

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 70 >](#)

ID	Location	Details	
-	983m NW	Status: Historical Licence No: 2569001245 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	983m NW	Status: Historical Licence No: 2569001245 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -



ID	Location	Details	
-	983m NW	Status: Historical Licence No: 2569001245 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	983m NW	Status: Historical Licence No: 2569001245 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	983m NW	Status: Historical Licence No: 2569001245 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	983m NW	Status: Historical Licence No: 2569001245 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1485m NW	Status: Historical Licence No: NW/069/0001/004 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BEALEY'S WEIR Data Type: Point Name: Resolution Hydro Limited Easting: 379607 Northing: 409015	Annual Volume (m ³): 80000000 Max Daily Volume (m ³): 259200 Original Application No: NPS/WR/004482 Original Start Date: 20/12/2010 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -



ID	Location	Details	
-	1692m NW	Status: Historical Licence No: 2569004054 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "THE MANCHESTER, BOLTON AND BURY CANAL AT BANK TOP, BURY" Data Type: Point Name: BRITISH WATERWAYS Easting: 379200 Northing: 408790	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1998 Version End Date: -
-	1692m NW	Status: Historical Licence No: 2569004054 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: THE MANCHESTER, BOLTON AND BURY CANAL AT BANK TOP, BURY Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 379200 Northing: 408790	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 04/12/1998 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569001158 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 379400 Northing: 409100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569001158 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 379400 Northing: 409100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -



ID	Location	Details	
-	1697m NW	Status: Historical Licence No: 2569001158 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 379400 Northing: 409100	Annual Volume (m ³): 3636800 Max Daily Volume (m ³): 14183.52 Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569001158 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 379400 Northing: 409100	Annual Volume (m ³): 3636800 Max Daily Volume (m ³): 14183.52 Original Application No: - Original Start Date: 29/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -
-	1799m E	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1799m E	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -



ID	Location	Details	
-	1799m E	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1799m E	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1799m E	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1799m E	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -



ID	Location	Details	
-	1916m W	Status: Historical Licence No: 2569004004 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATRADCLIFFE Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 378800 Northing: 407800	Annual Volume (m ³): 40004.8 Max Daily Volume (m ³): 109.104 Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

5

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 70 >](#)

ID	Location	Details	
-	1176m NE	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1176m NE	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -



ID	Location	Details	
-	1593m S	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -
-	1594m S	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1594m S	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

0

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

6

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 84](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
5	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch

ID	Location	Type of water feature	Ground level	Permanence	Name
7	151m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	151m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
9	187m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
10	187m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	231m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	2
----------------------------	----------

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 84 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

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 84 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	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
---------------------------	----------

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 84 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	126m SE	River	Roch (Spodden to Irwell)	GB112069064600 ↗	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 84 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	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

7.6 Flood Zone 2

Records within 50m

0

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.

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

7.7 Flood Zone 3

Records within 50m

0

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.

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.3m - 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 90](#) >

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 Ambiental 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

Low

Highest risk within 50m

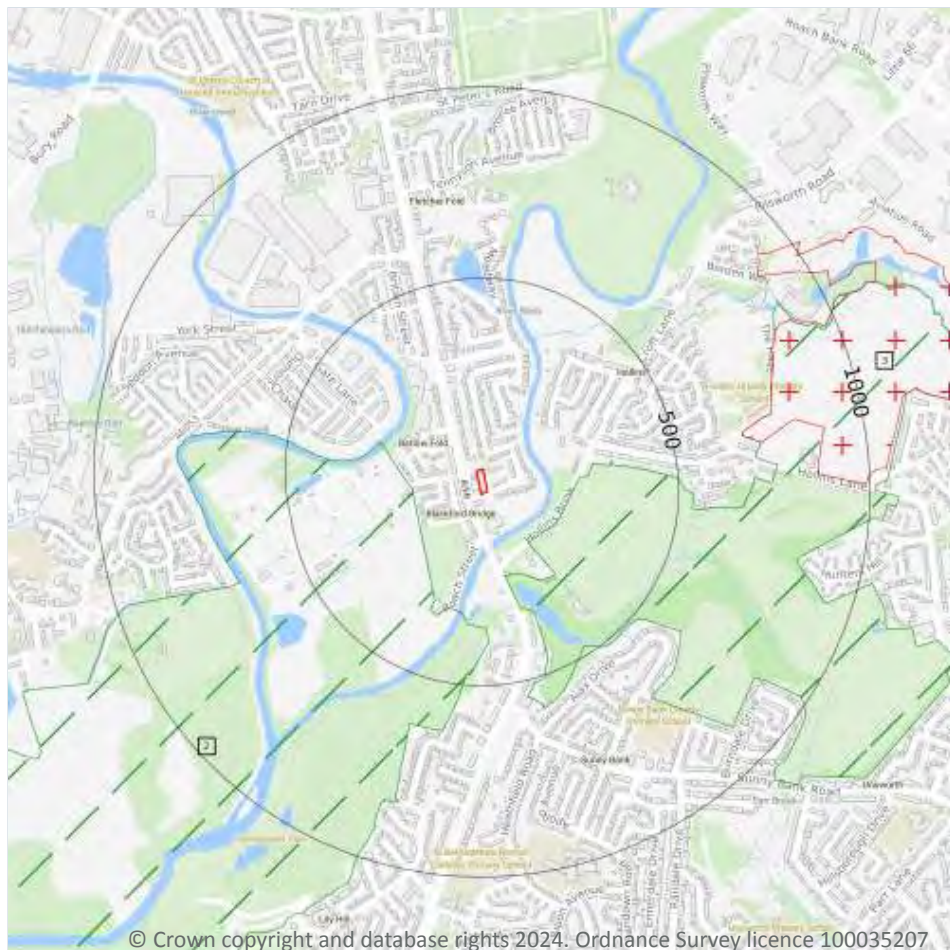
Moderate

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 92](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- / 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

1

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.

Features are displayed on the Environmental designations map on [page 93](#) >

ID	Location	Name	Data source
3	682m E	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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.

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

5

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

Features are displayed on the Environmental designations map on [page 93 >](#)

ID	Location	Name	Local Authority name
1	171m SE	Merseyside and Greater Manchester	Bury
2	174m W	Merseyside and Greater Manchester	Bury
-	1499m W	Merseyside and Greater Manchester	Bury
-	1910m NE	Merseyside and Greater Manchester	Rochdale
-	1936m SW	Merseyside and Greater Manchester	Bury

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

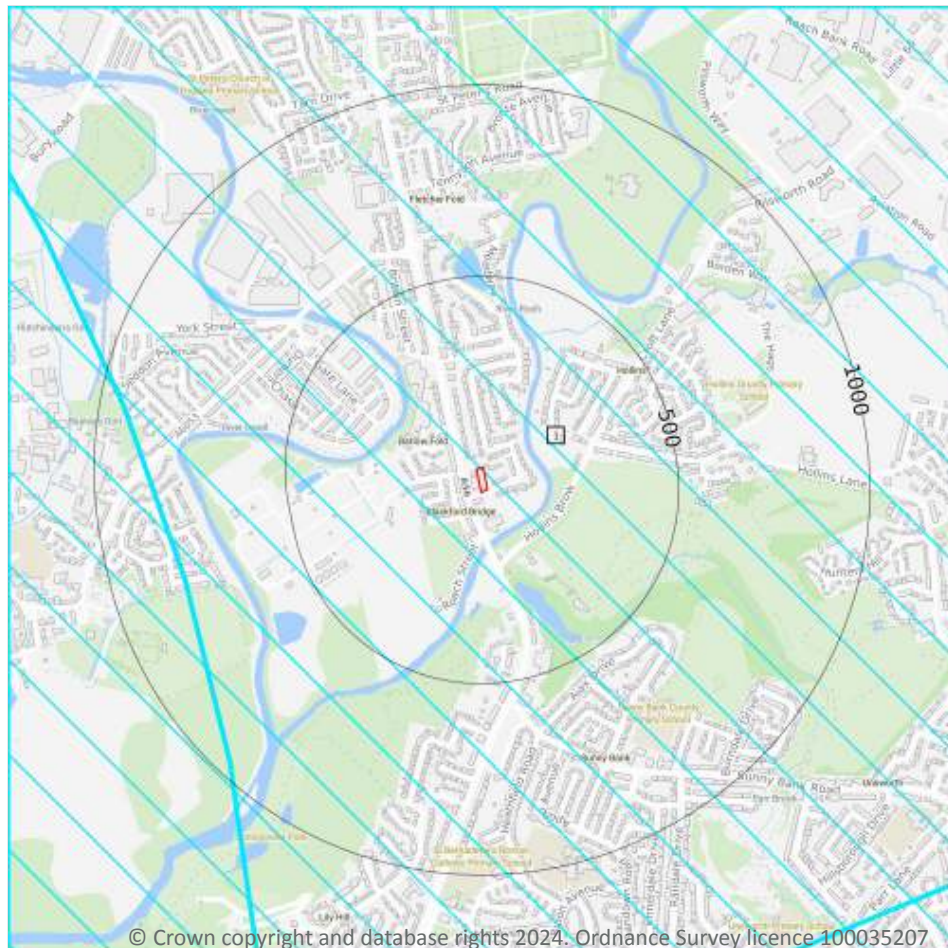
0

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.

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 98](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². 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

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 100 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	122m SW	Drinking Fountain In Recreation Ground	II	1386814	26/04/1999

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

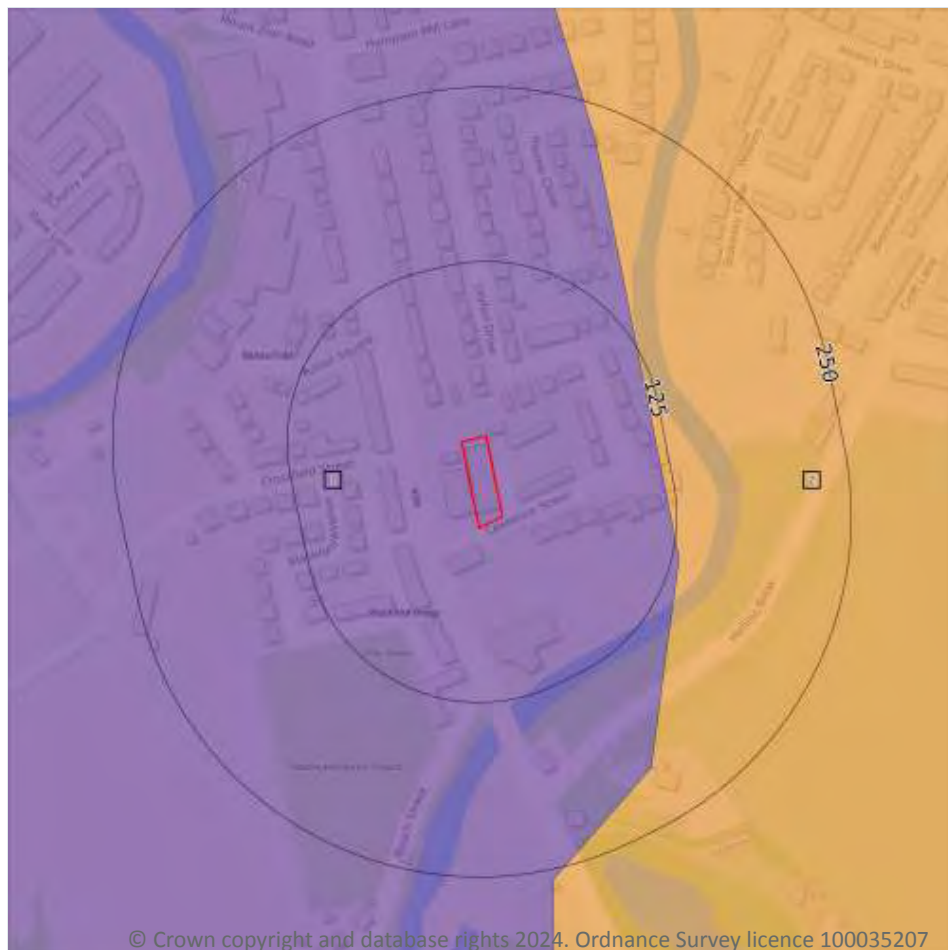
0

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

2

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 103](#) >

ID	Location	Classification	Description
1	On site	Urban	-
2	118m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



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

10

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 105 >](#)

ID	Location	Main Habitat	Other habitats
1	141m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	162m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	171m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	173m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
7	197m SE	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
9	203m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	230m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	234m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: GQSIG (INV 50%)
A	239m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	240m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

3

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.

Features are displayed on the Habitat designations map on [page 105 >](#)

ID	Location	Type	Habitat
2	155m SW	Network Enhancement Zone 1	Not specified
3	161m SW	Network Enhancement Zone 2	Not specified
8	199m SW	Network Enhancement Zone 2	Not specified

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

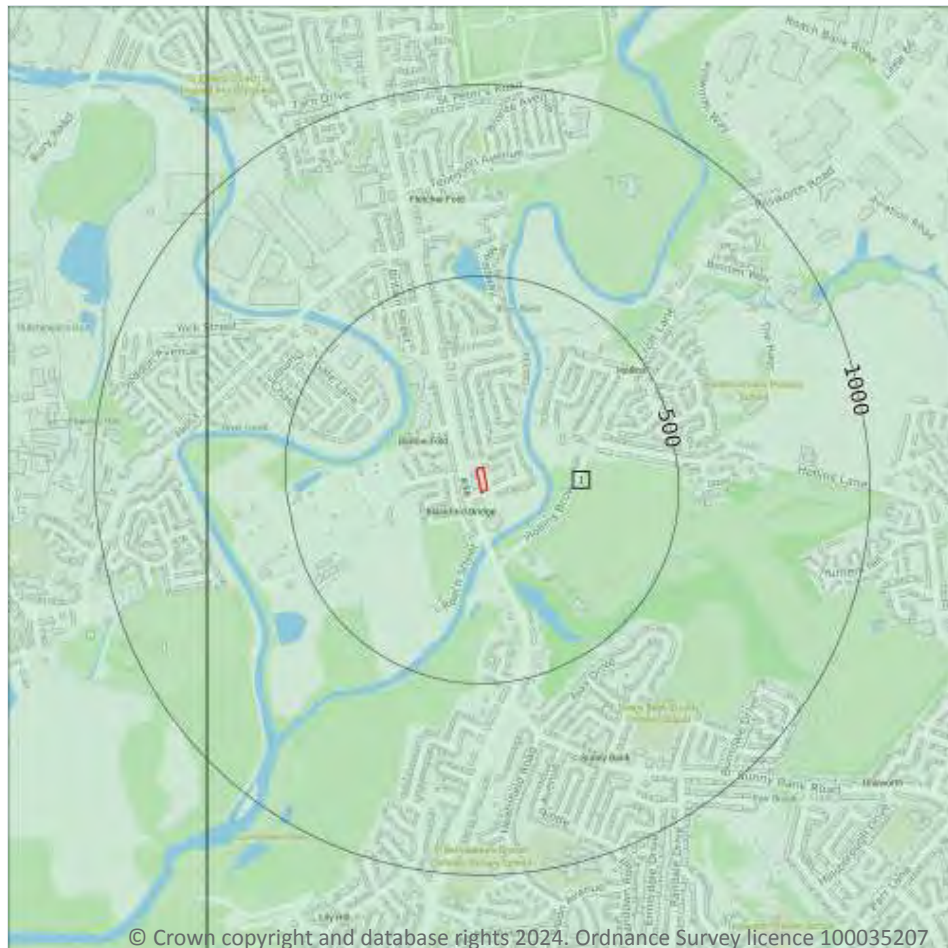
0

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.

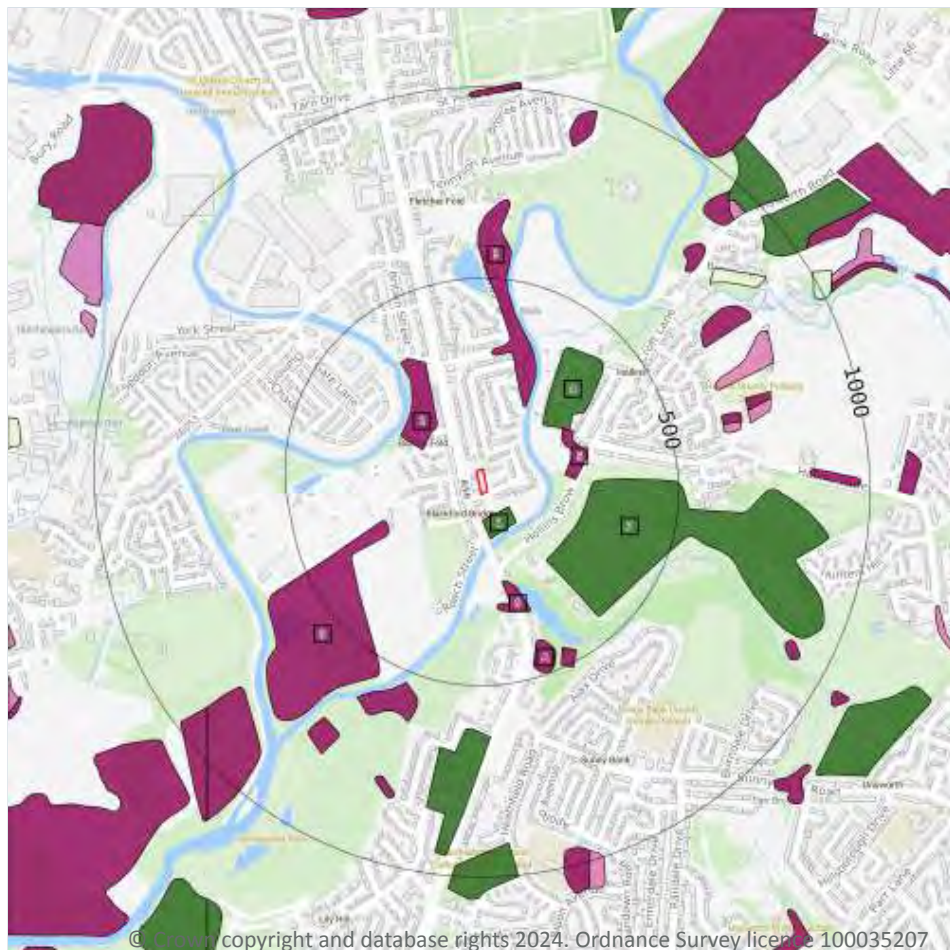
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 108 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NW

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

10

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 109](#) >

ID	Location	LEX Code	Description	Rock description
1	61m SE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
2	151m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	195m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	197m NE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit

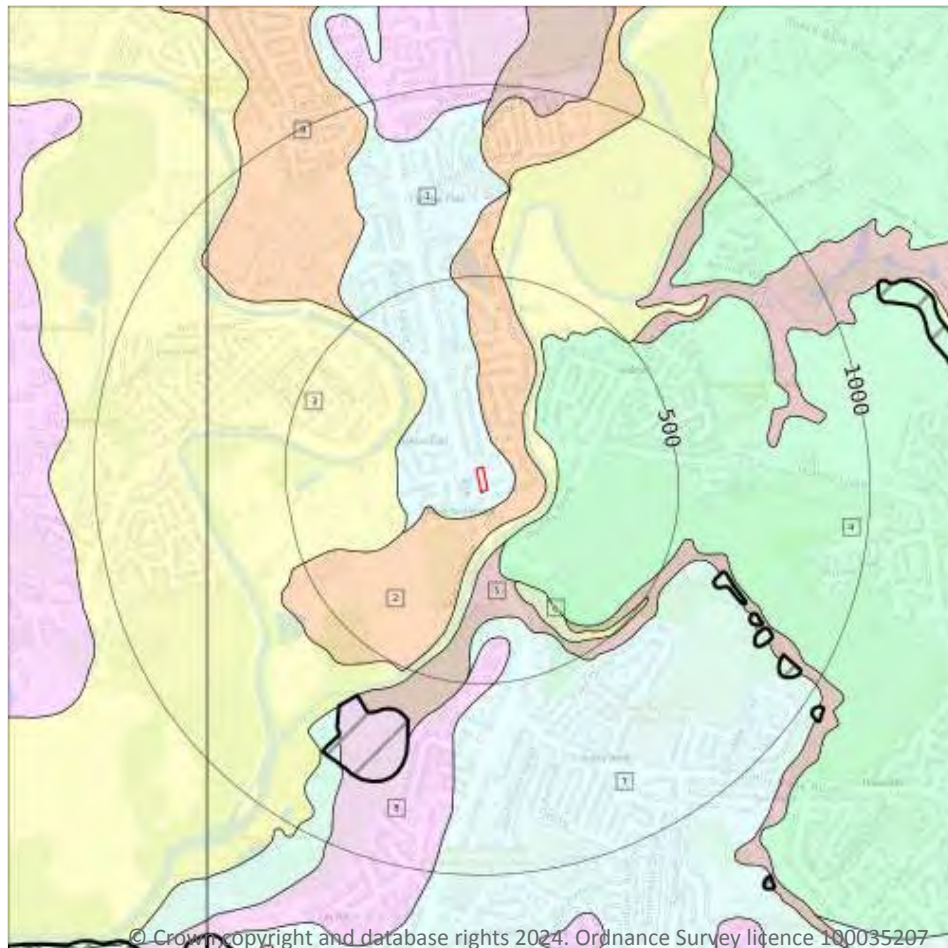


ID	Location	LEX Code	Description	Rock description
5	207m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	232m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	235m SE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
8	258m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	409m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	452m SE	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

9

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 111](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	49m SE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
3	100m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	136m SE	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
5	143m S	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	251m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	331m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	381m S	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
9	496m NW	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

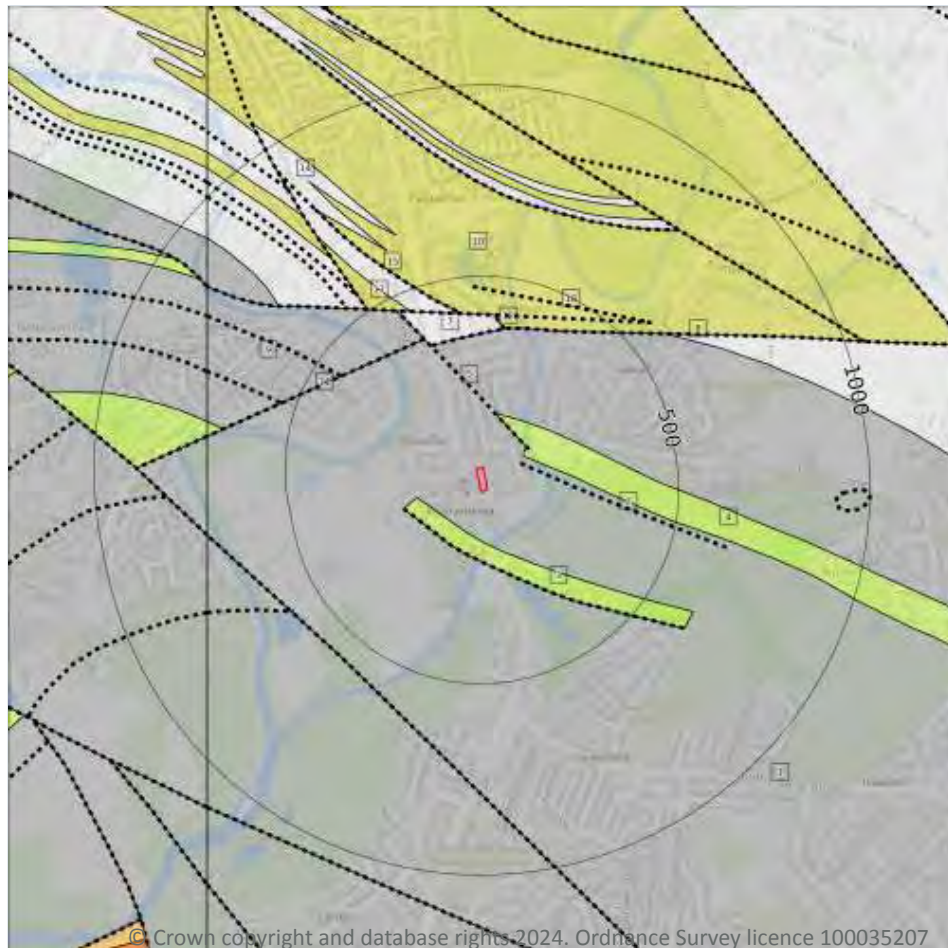
0

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.

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

8

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 113](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
3	108m SW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
4	109m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
7	342m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	366m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
10	366m N	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
14	406m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
17	446m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - 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

10

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.

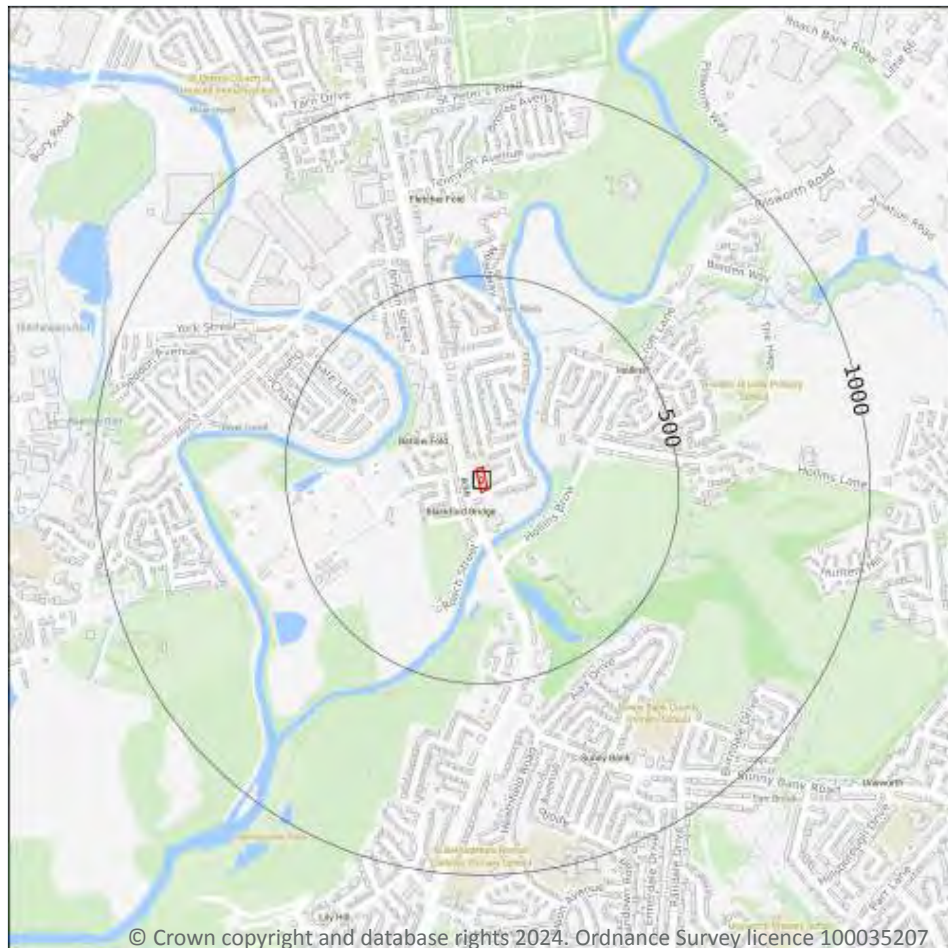
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 113](#) >

ID	Location	Category	Description
2	98m NE	ROCK	Coal seam, inferred
5	119m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	158m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
8	342m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	366m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	366m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
13	400m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
15	406m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
16	430m NW	ROCK	Coal seam, inferred
18	458m N	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.

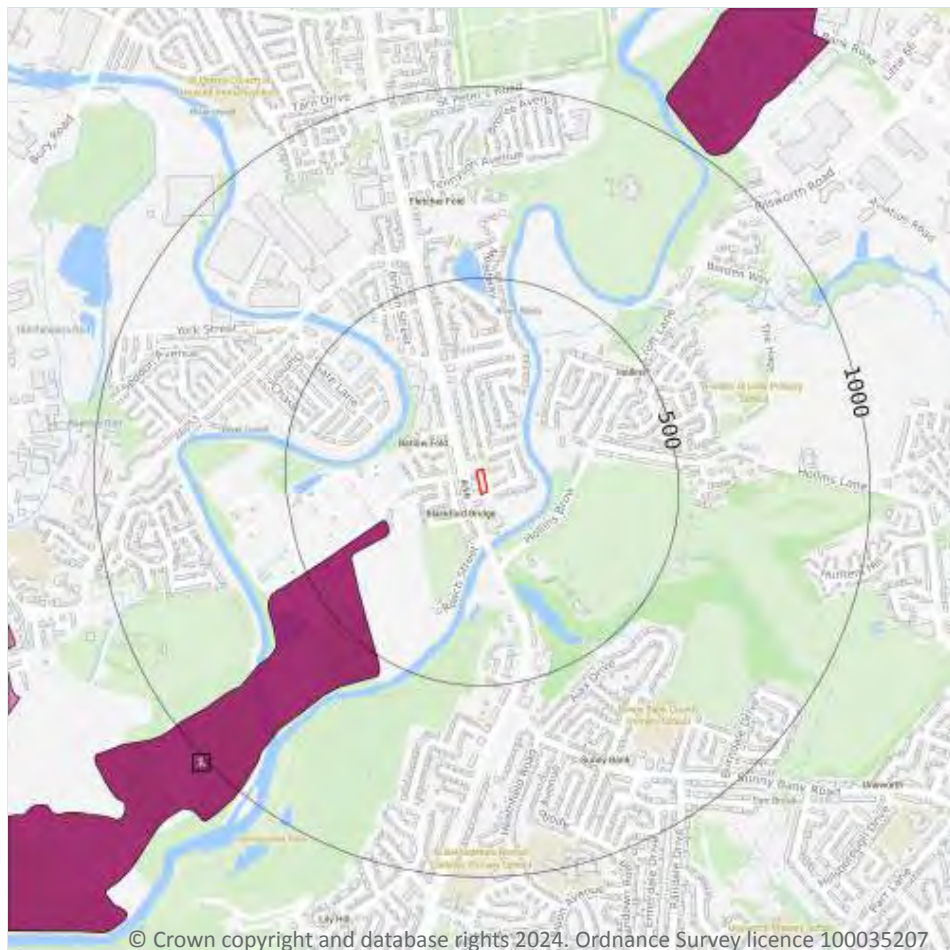
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 115](#) >

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



— Site Outline
Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 116 >](#)

ID	Location	LEX Code	Description	Rock description
1	257m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

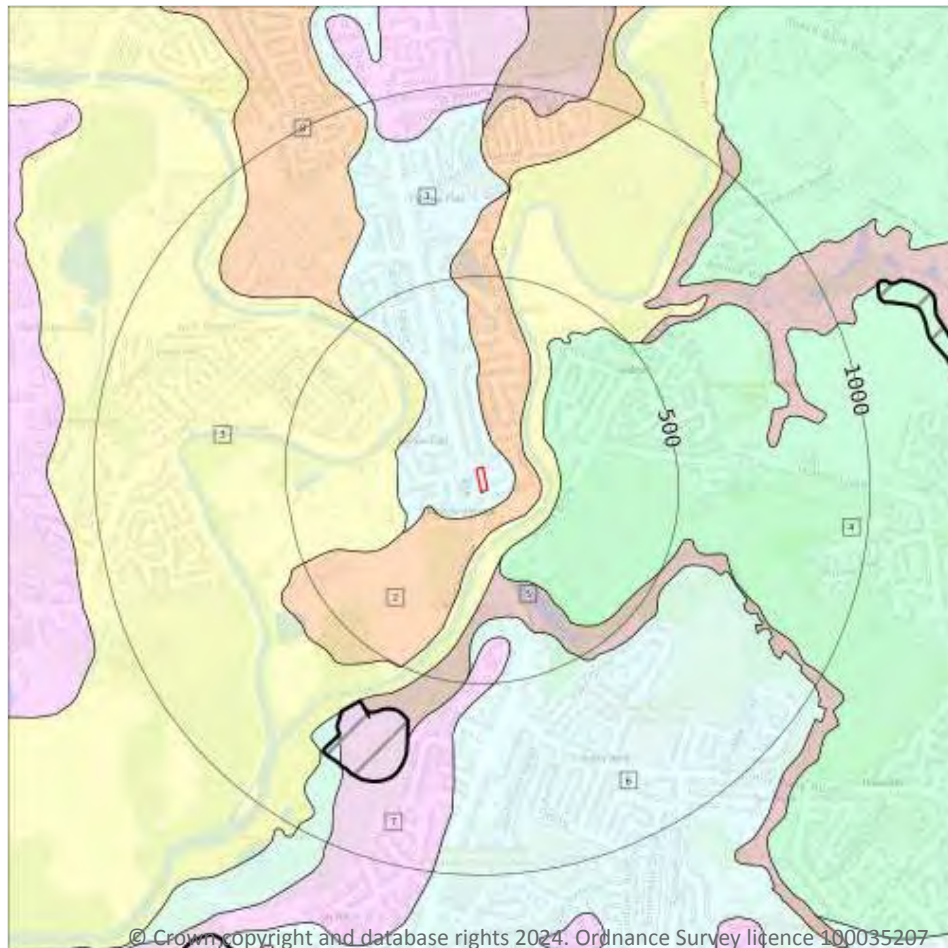
0

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

8

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 118](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	49m SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
3	100m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	159m SE	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
5	176m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	331m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	381m S	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
8	497m NW	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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	Mixed	High	Low
49m SE	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

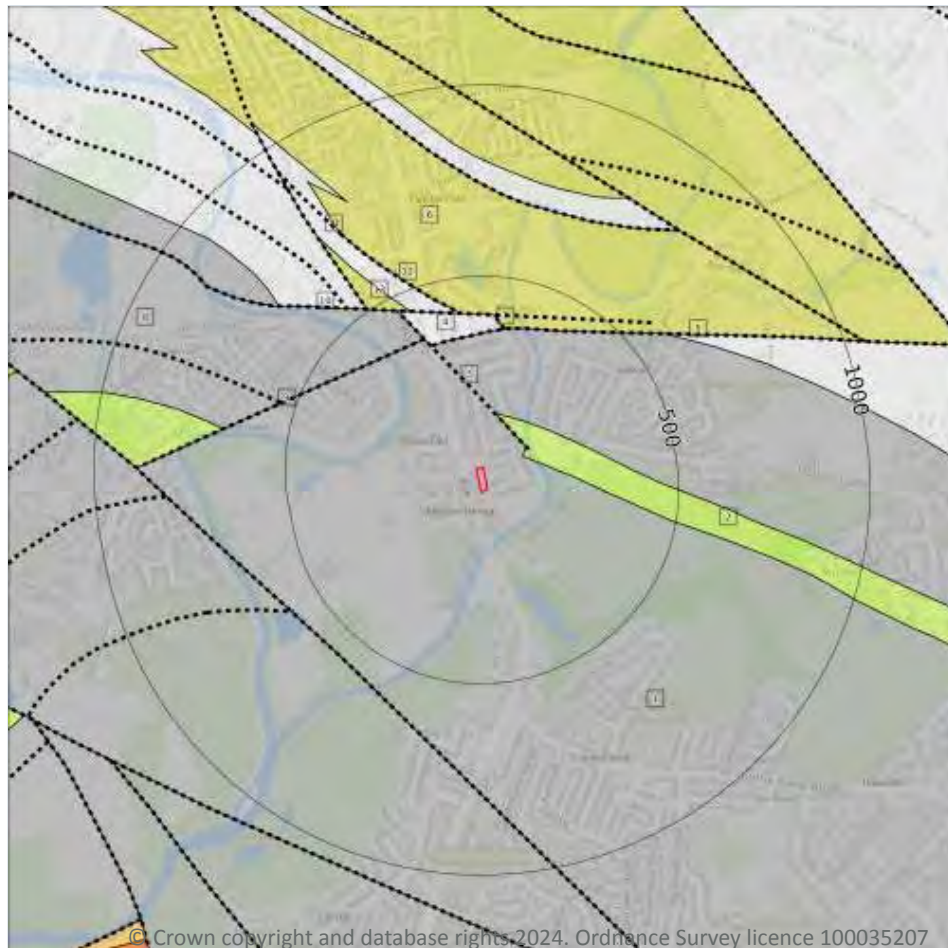
0

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

7

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 120](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	108m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	342m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	366m N	TRBR-SDST	TRENCHBONE ROCK - SANDSTONE	WESTPHALIAN
8	366m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	406m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	446m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - 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

6

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 120 >](#)

ID	Location	Category	Description
3	119m NE	FAULT	Fault, inferred
5	342m N	FAULT	Fault, inferred
7	366m N	ROCK	Coal seam, inferred
9	366m NW	FAULT	Fault, inferred



ID	Location	Category	Description
10	400m N	FAULT	Fault, inferred
12	406m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

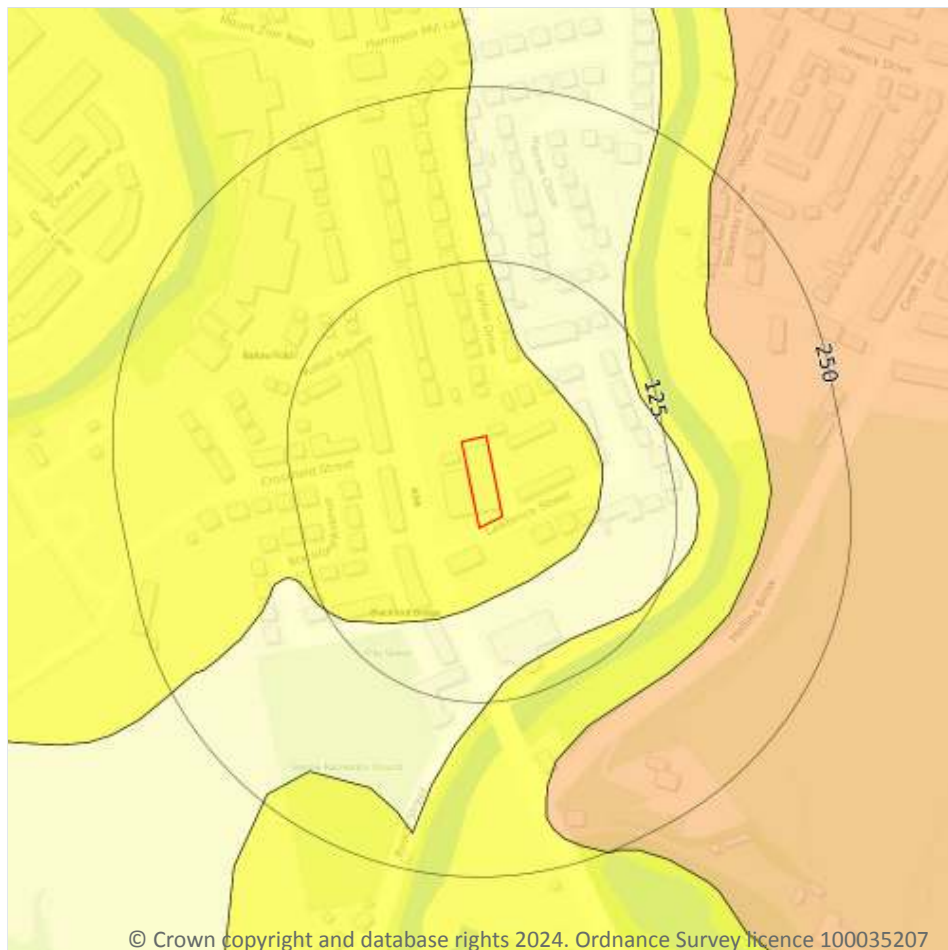
0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

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17.1 Shrink swell clays

Records within 50m

2

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).

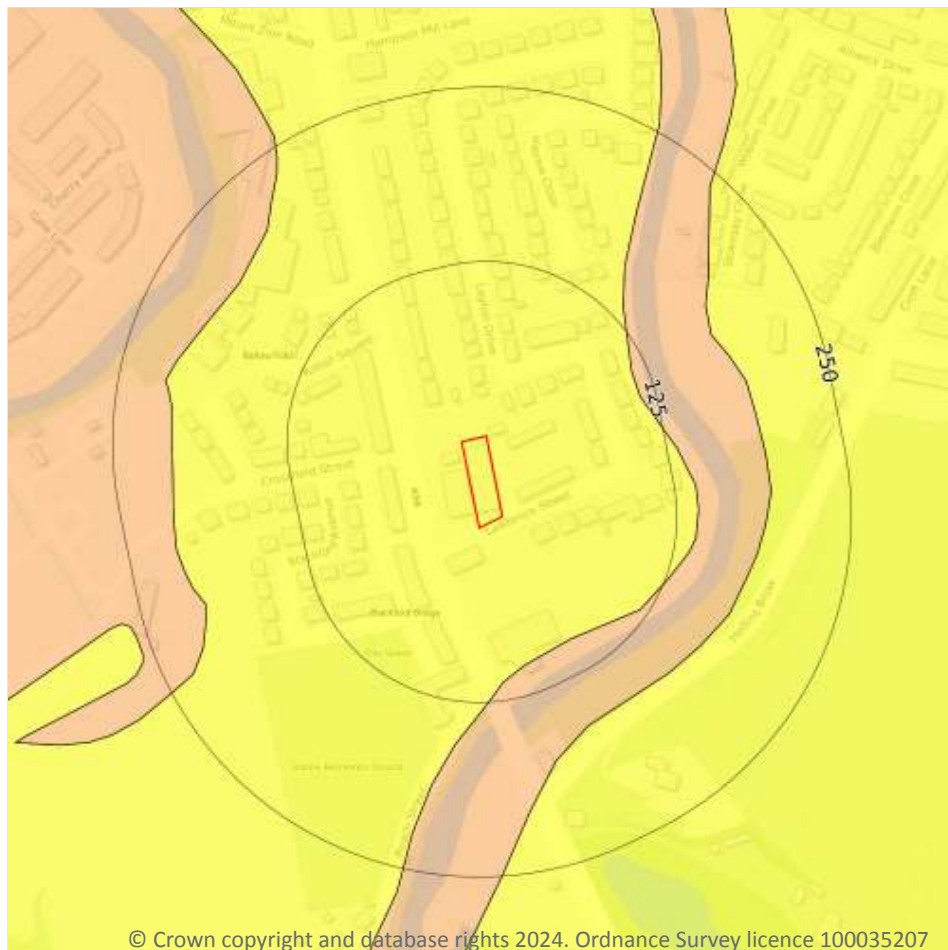
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 124](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
49m SE	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 125 >](#)

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



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

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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.

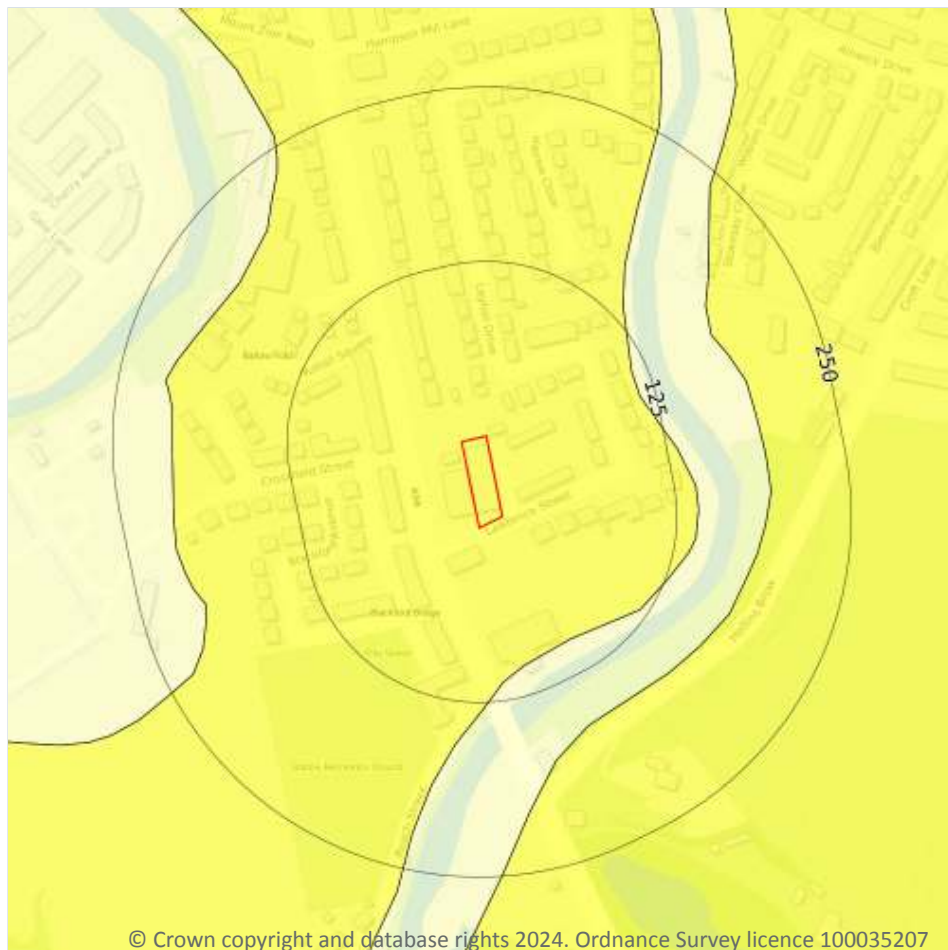
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 126 >](#)

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.

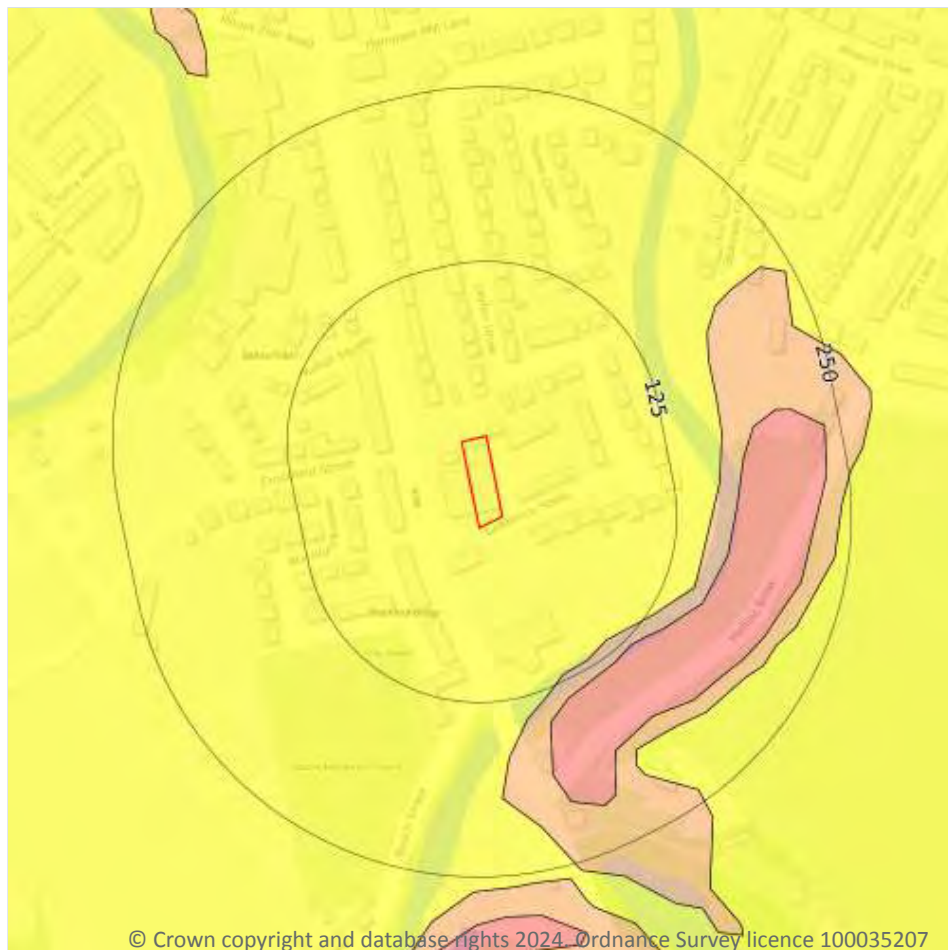
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 127 >](#)

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

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 128](#) >

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 129 >](#)

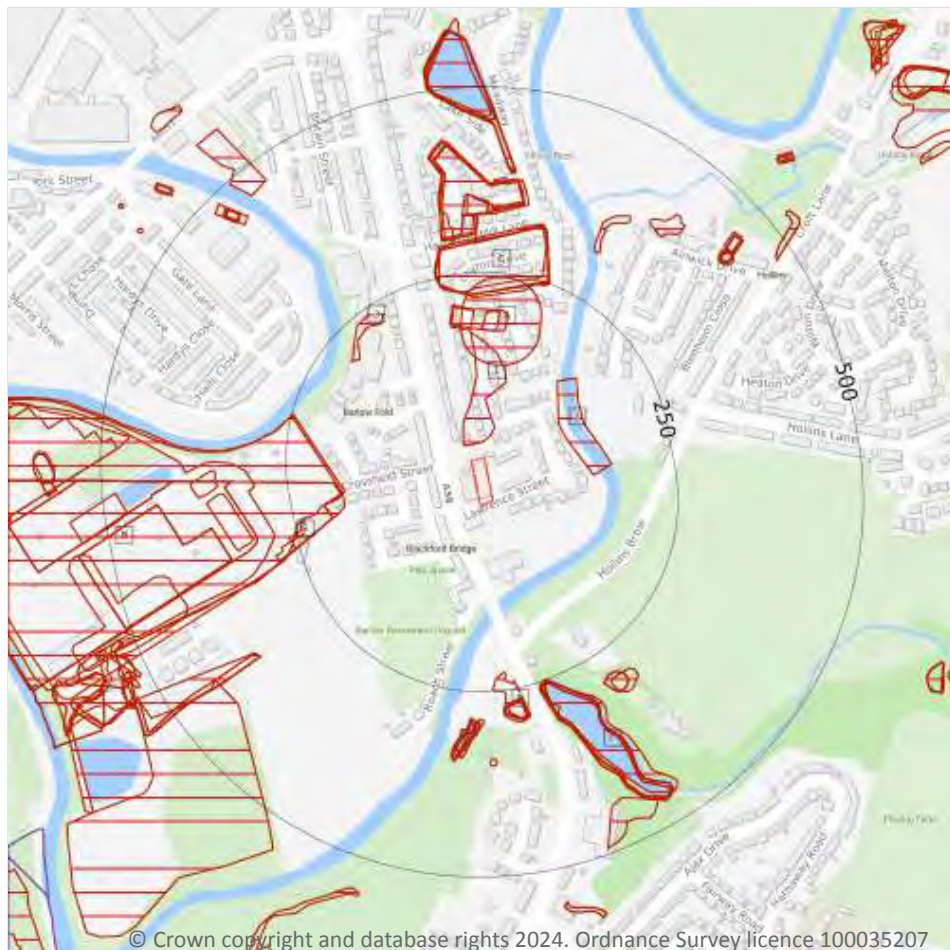
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- 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 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

22

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 and ground workings map on [page 131](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	21m N	Refuse Heap	1965	1:10560
2	110m NE	Cuttings	1965	1:10560
A	126m N	Filter Beds	1928	1:10560
A	172m N	Filter Beds	1908	1:10560
A	172m N	Filter Beds	1938	1:10560
B	175m W	Sewage Works	1981	1:10000
A	176m N	Filter Beds	1955	1:10560
B	179m W	Sewage Works	1974	1:10000
B	181m W	Sewage Works	1923	1:10560
B	181m W	Sewage Works	1915	1:10560
B	181m W	Sewage Works	1907	1:10560
3	203m NW	Unspecified Ground Workings	1908	1:10560
C	217m N	Ponds	1965	1:10560
C	221m N	Reservoirs	1938	1:10560
C	221m N	Reservoirs	1928	1:10560
C	221m N	Reservoirs	1908	1:10560
C	221m N	Reservoirs	1891	1:10560
C	225m N	Reservoirs	1955	1:10560
D	226m S	Reservoirs	1938	1:10560
E	237m W	Unspecified Ground Workings	1907	1:10560
F	250m S	Reservoir	1891	1:10560
F	250m S	Reservoir	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 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 data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m**0**

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from 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 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.



18.8 The Coal Authority non-coal mining

Records within 500m**0**

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**0**

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.12 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.

18.13 Brine areas

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

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.

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 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 Ground cavities and sinkholes

19.1 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.

19.2 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.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

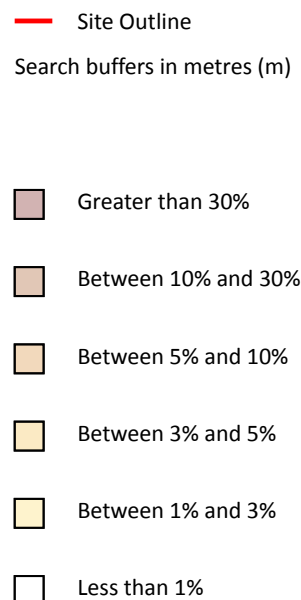
This data is sourced from the British Geological Survey.



20 Radon



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20.1 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 138](#) >

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.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 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.

21.3 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.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

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.

22.2 Underground railways (Non-London)

Records within 250m**0**

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.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 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.

22.5 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.

22.6 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.

22.7 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.

22.8 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.

22.9 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.

22.10 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: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



COAL AUTHORITY MINING REPORT



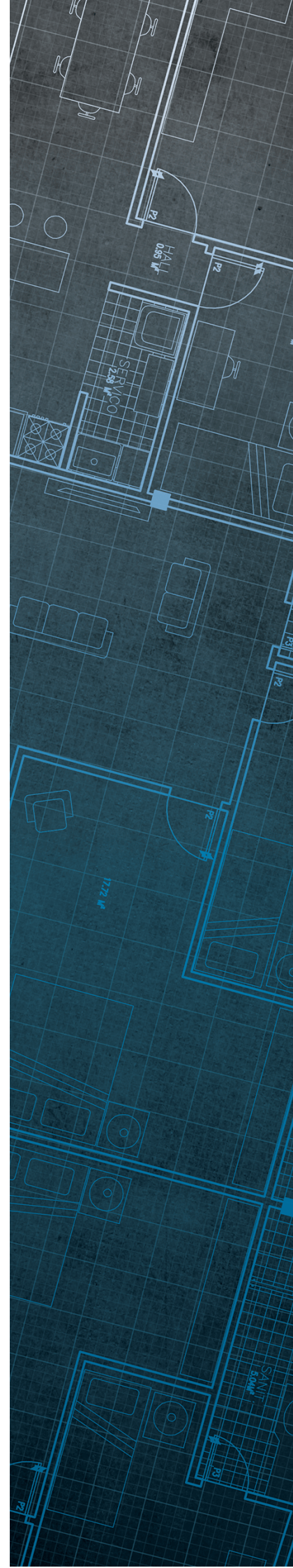
The Coal
Authority

Consultants Coal Mining Report

Travis Perkins
Chelsea Street
Bury
Bury
BL9 9SN

Date of enquiry:	7 March 2024
Date enquiry received:	7 March 2024
Issue date:	7 March 2024

Our reference:	51003410078001
Your reference:	7931



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

SUB SURFACE LIMITED

Enquiry address

Travis Perkins
Chelsea Street
Bury
Bury
BL9 9SN

How to contact us

0345 762 6848 (UK)
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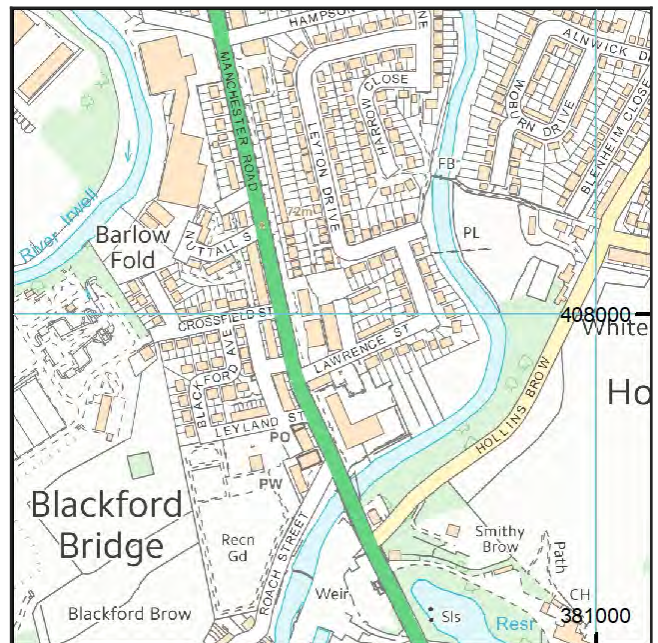
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

16820	3001	
-------	------	--

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

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

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

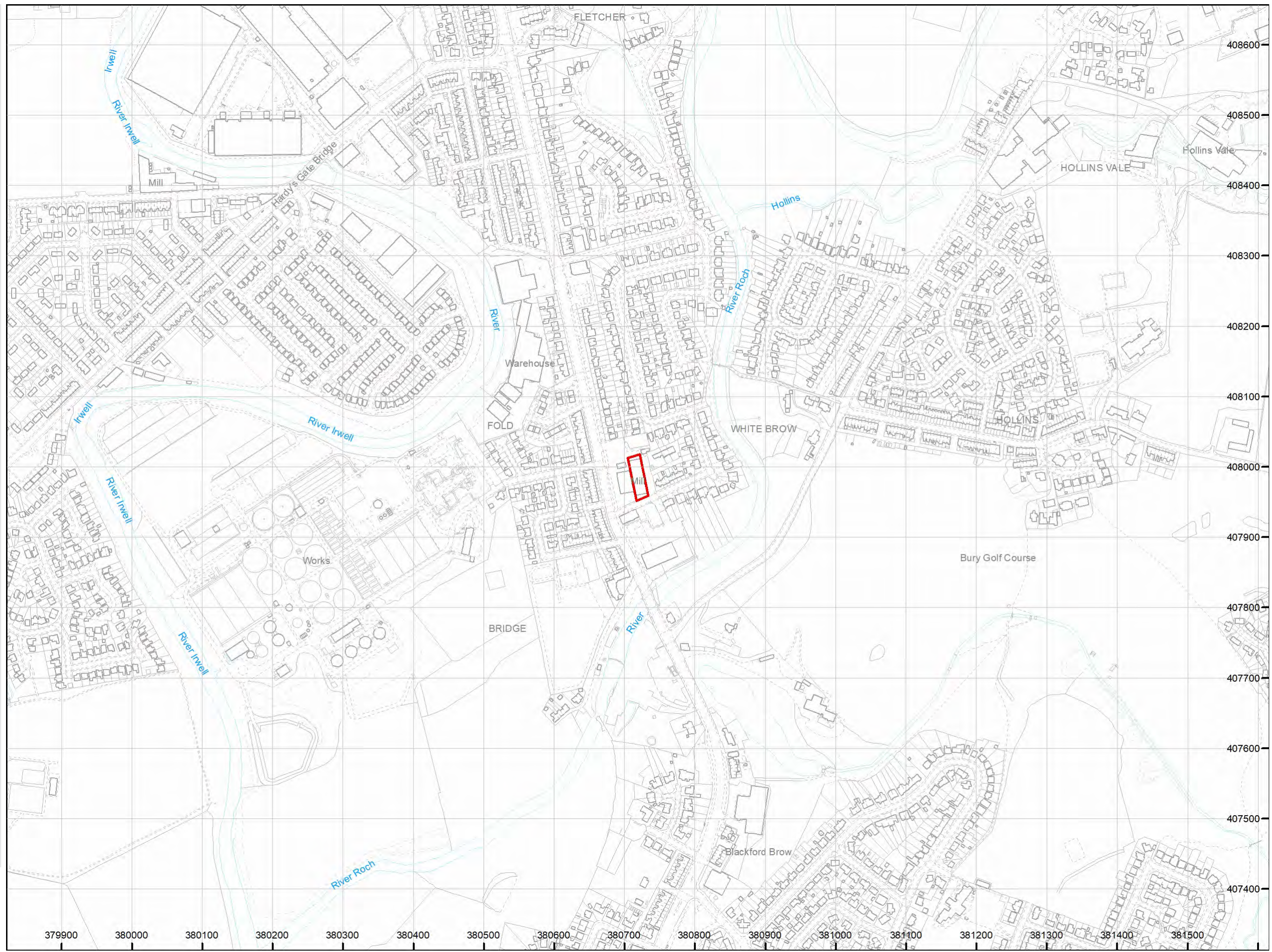
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 

How to contact us

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+44 (0)1623 637 000 (International)
www.groundstability.com



SMALL SCALE SURVEY PLANS



Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1848-1850

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A



Surveyed 1848
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A



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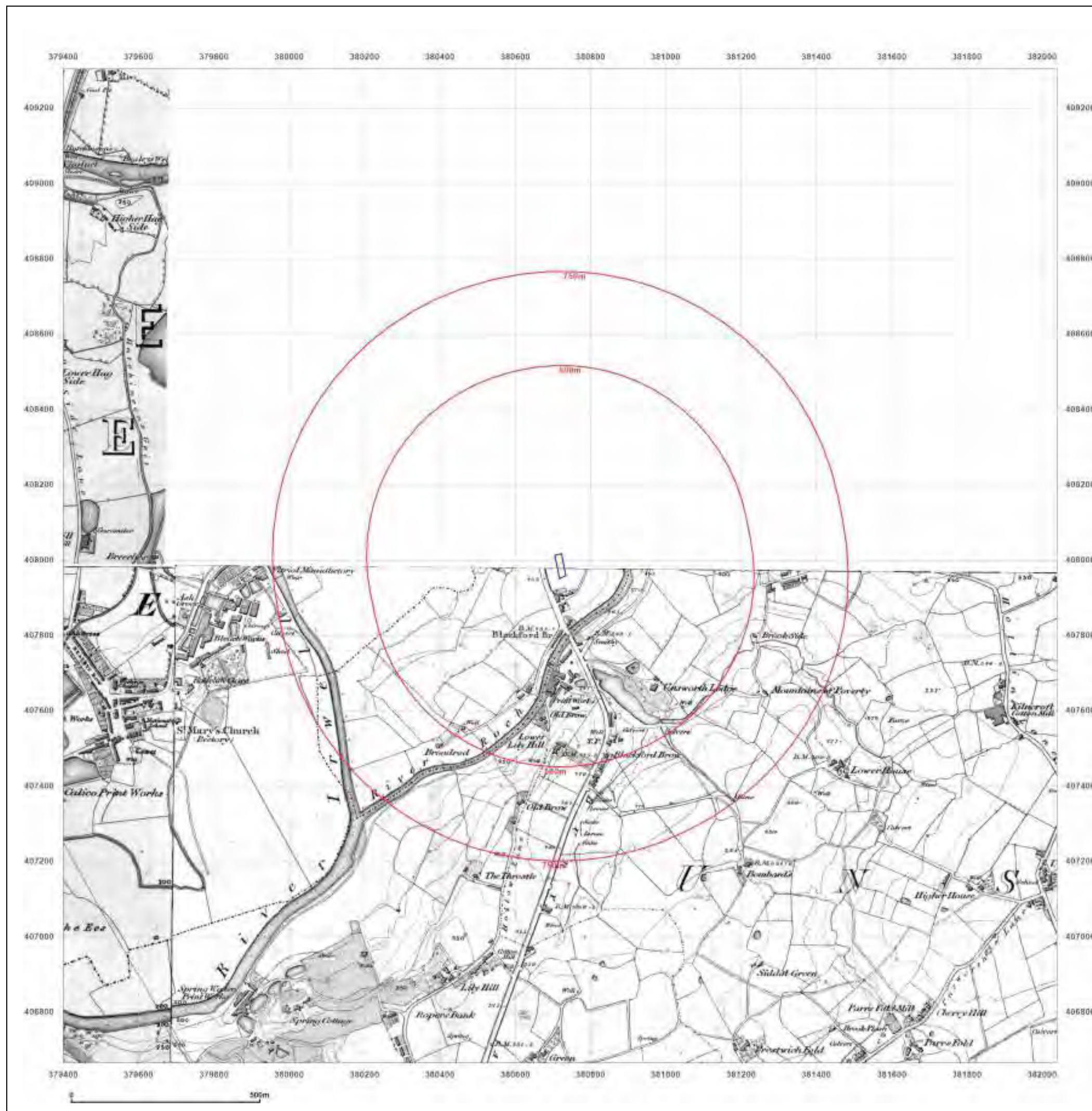


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Production date: 06 March 2024

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





Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

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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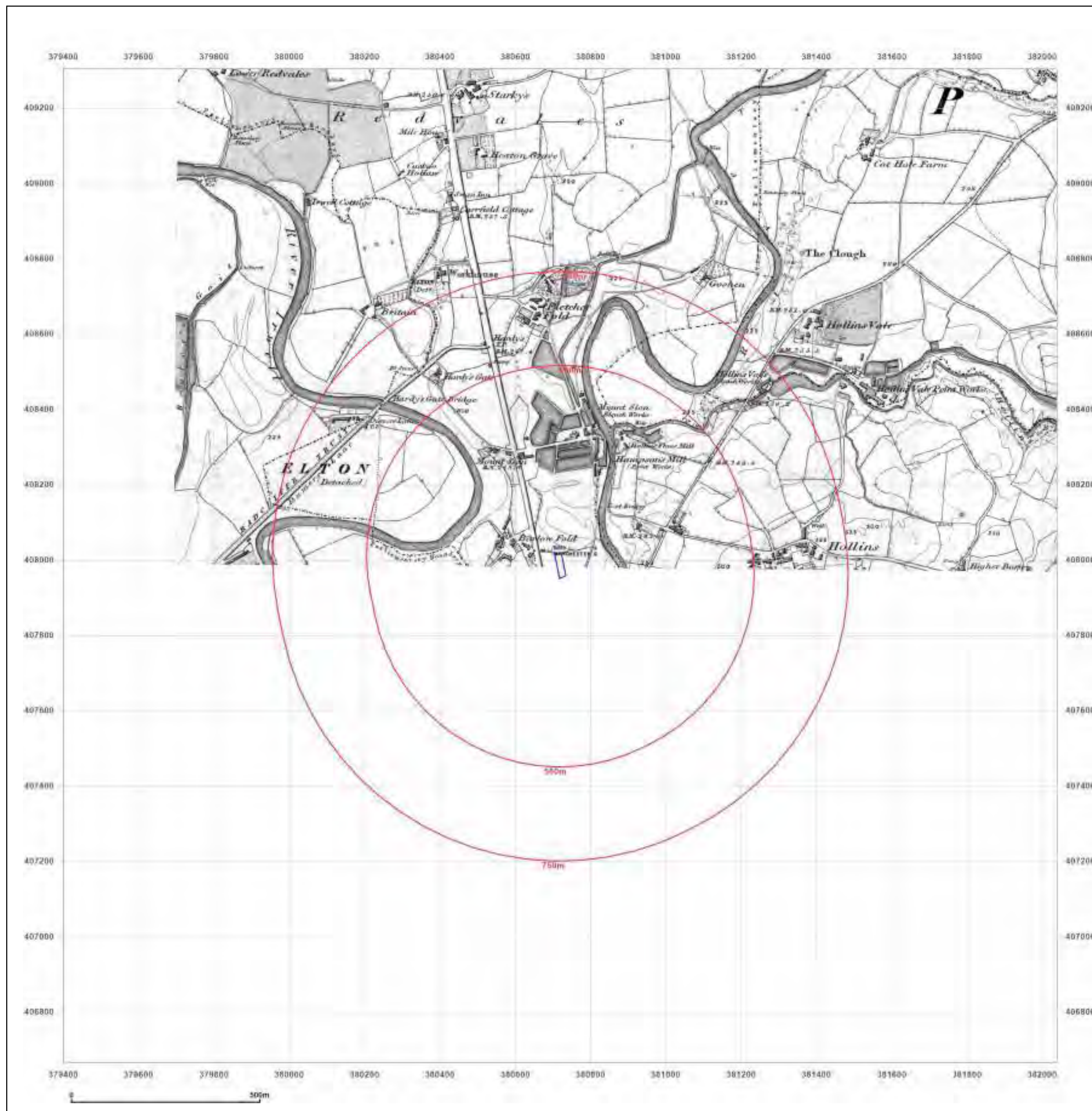


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
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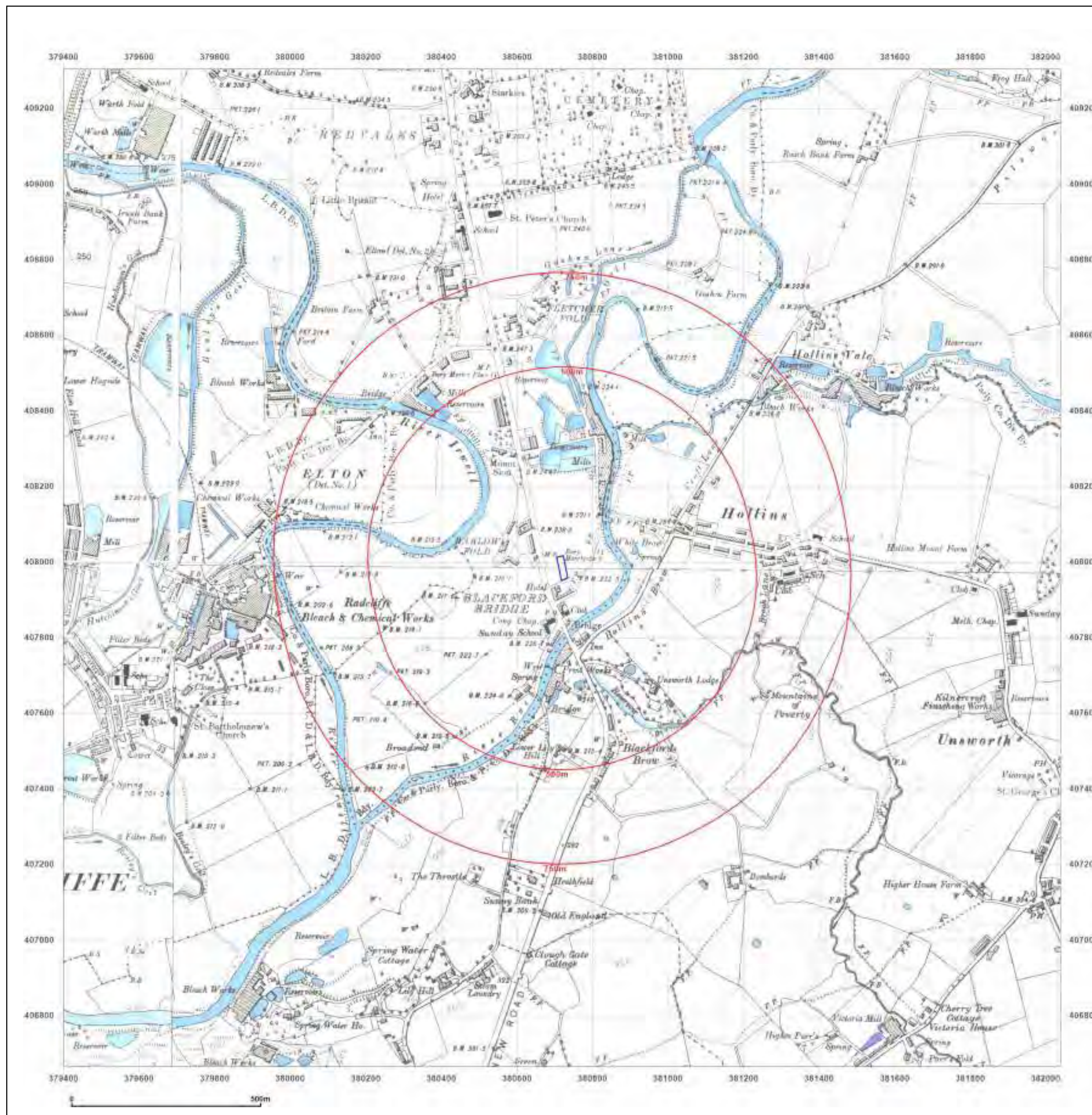


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1907-1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



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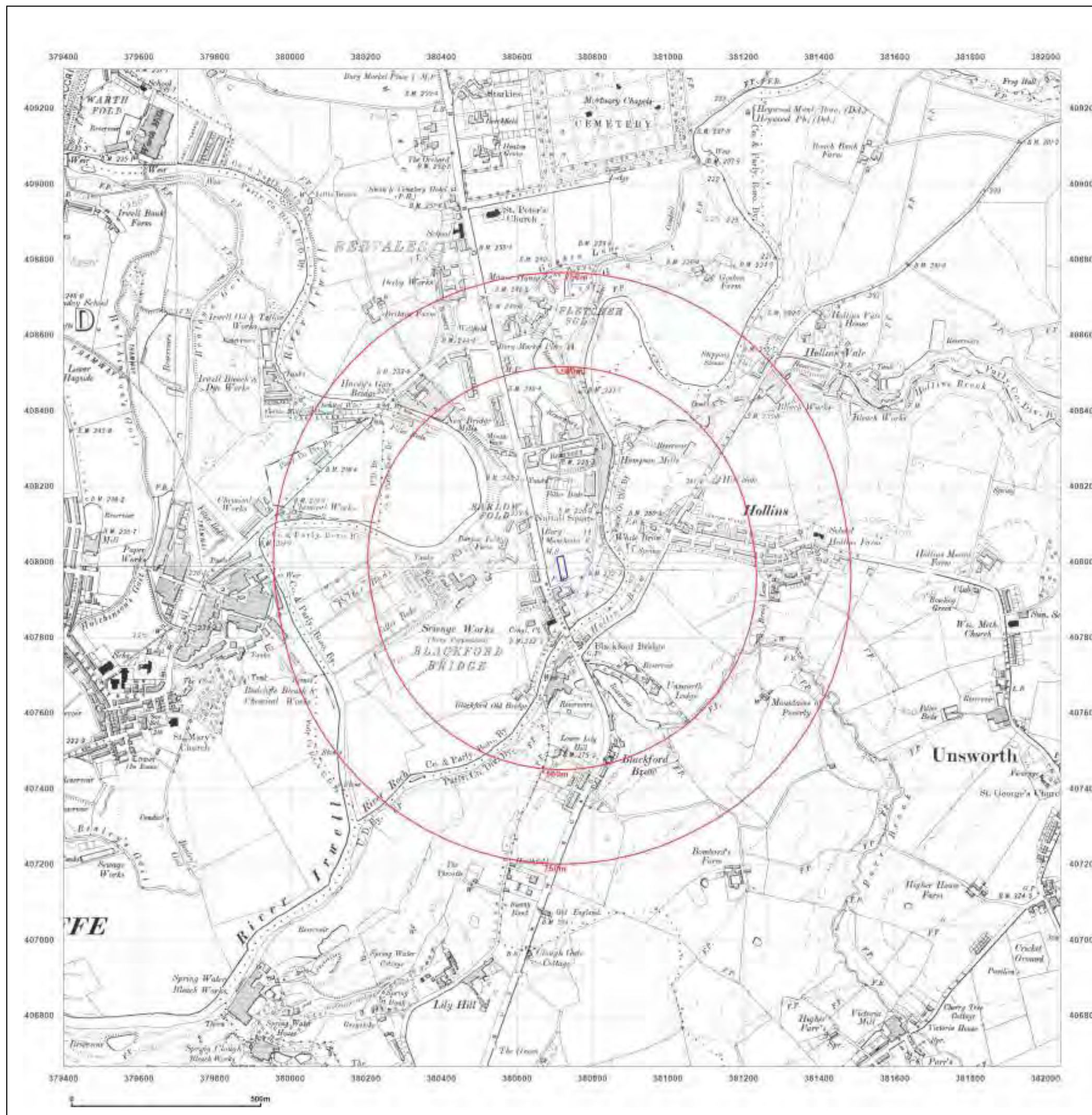


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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1915

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1915
Edition N/A
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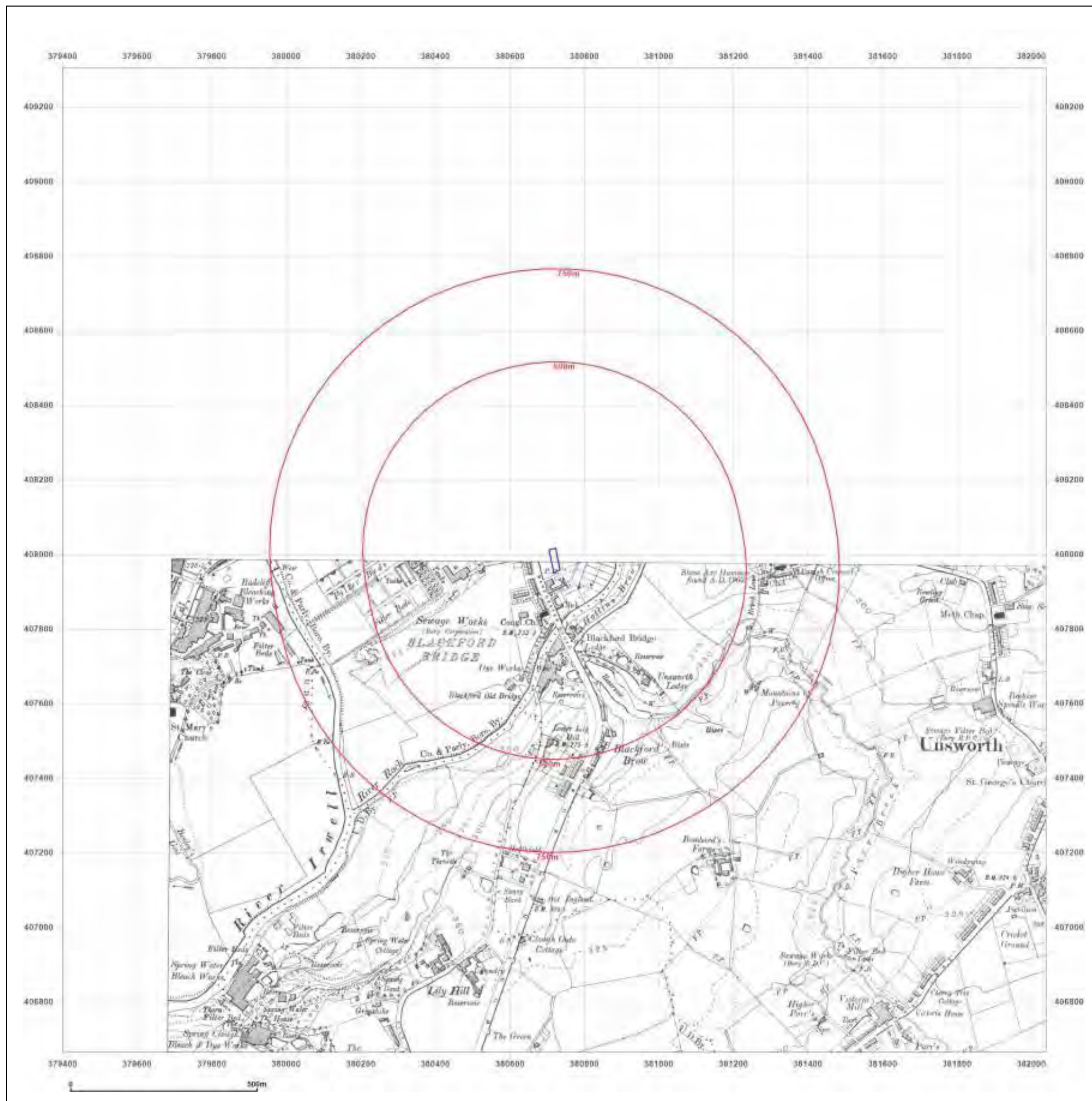


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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A



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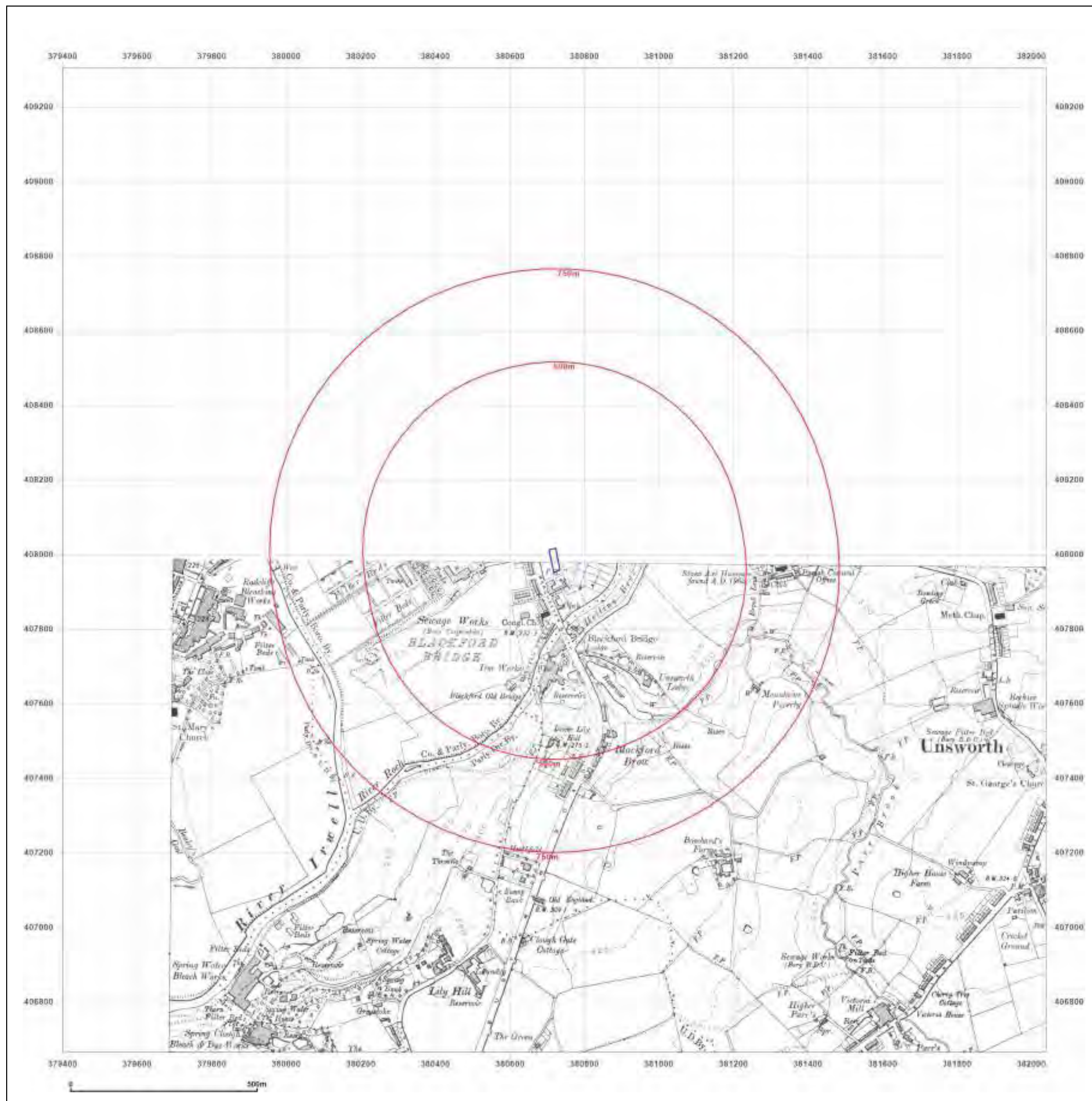


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1927-1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1932
Edition N/A
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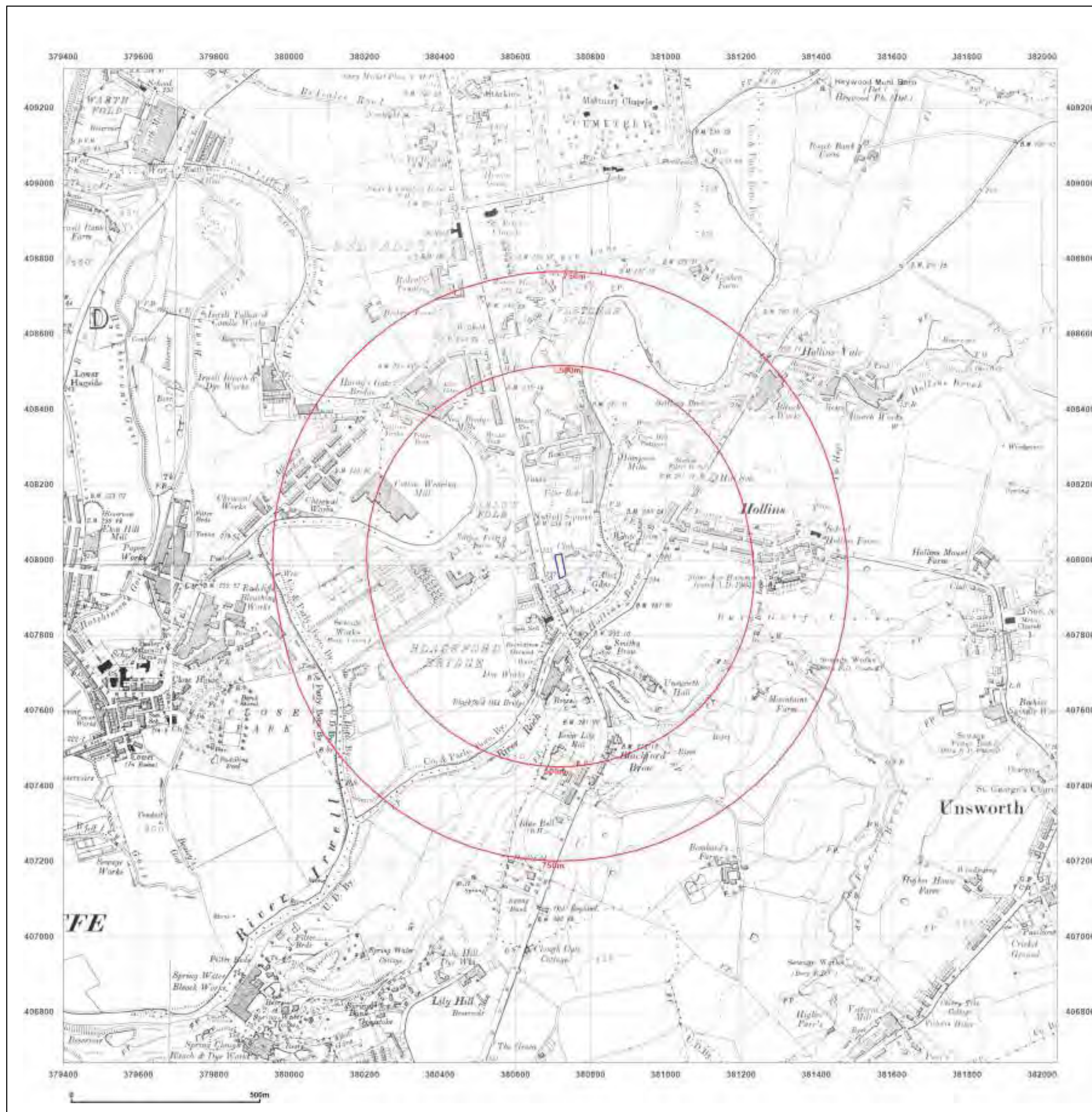


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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

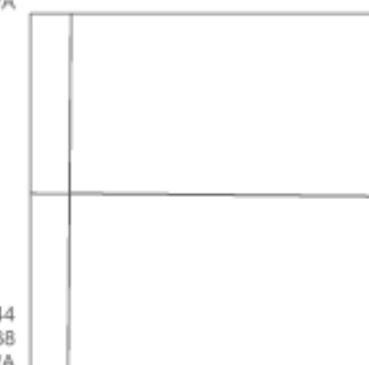
Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1938
Edition N/A
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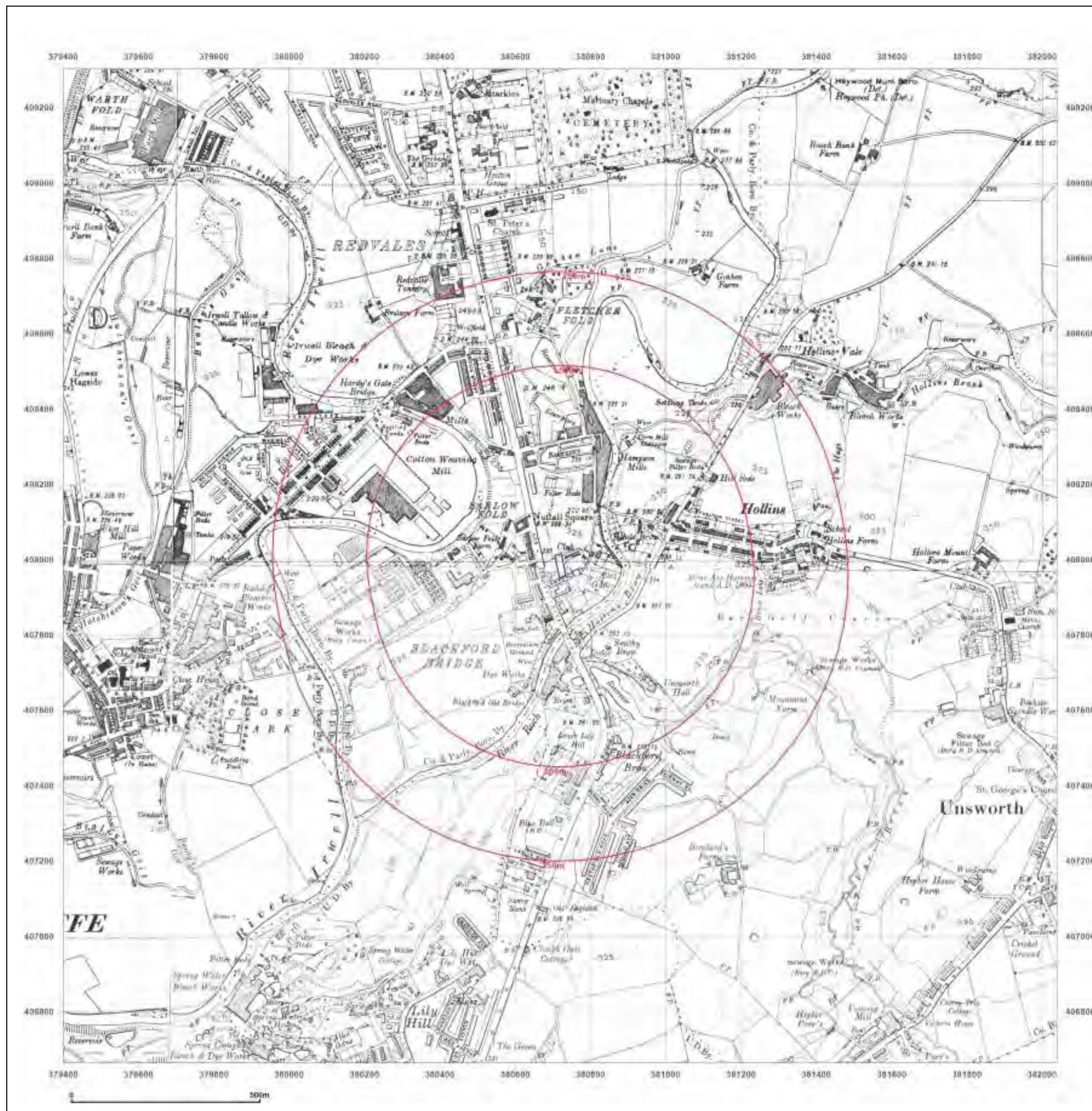


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: Provisional

Map date: 1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1950
Revised 1955
Edition 1955
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1955
Edition 1955
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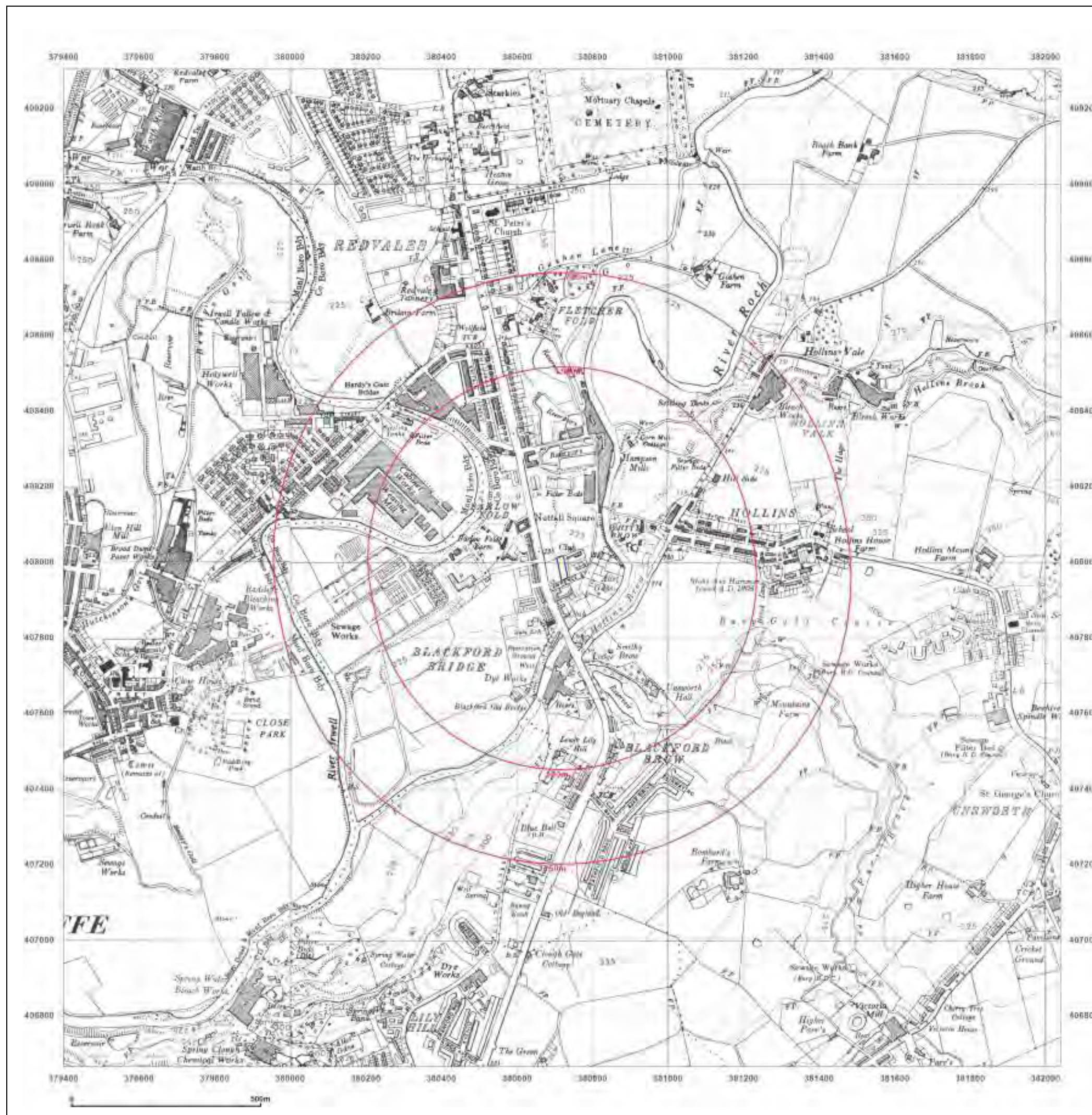


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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
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Surveyed 1965
Revised 1965
Edition N/A
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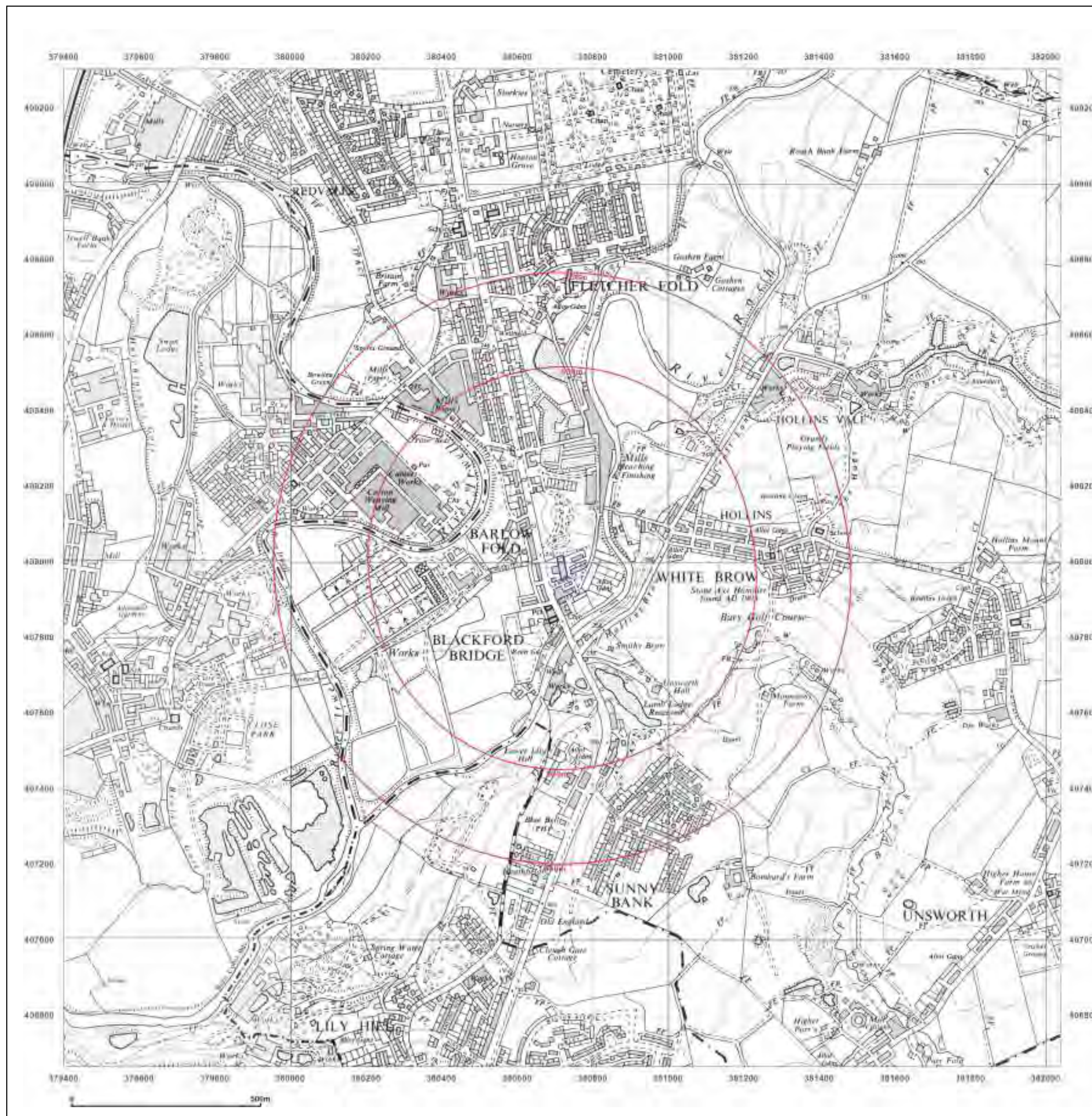


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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1974-1977

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1977
Edition N/A
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Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
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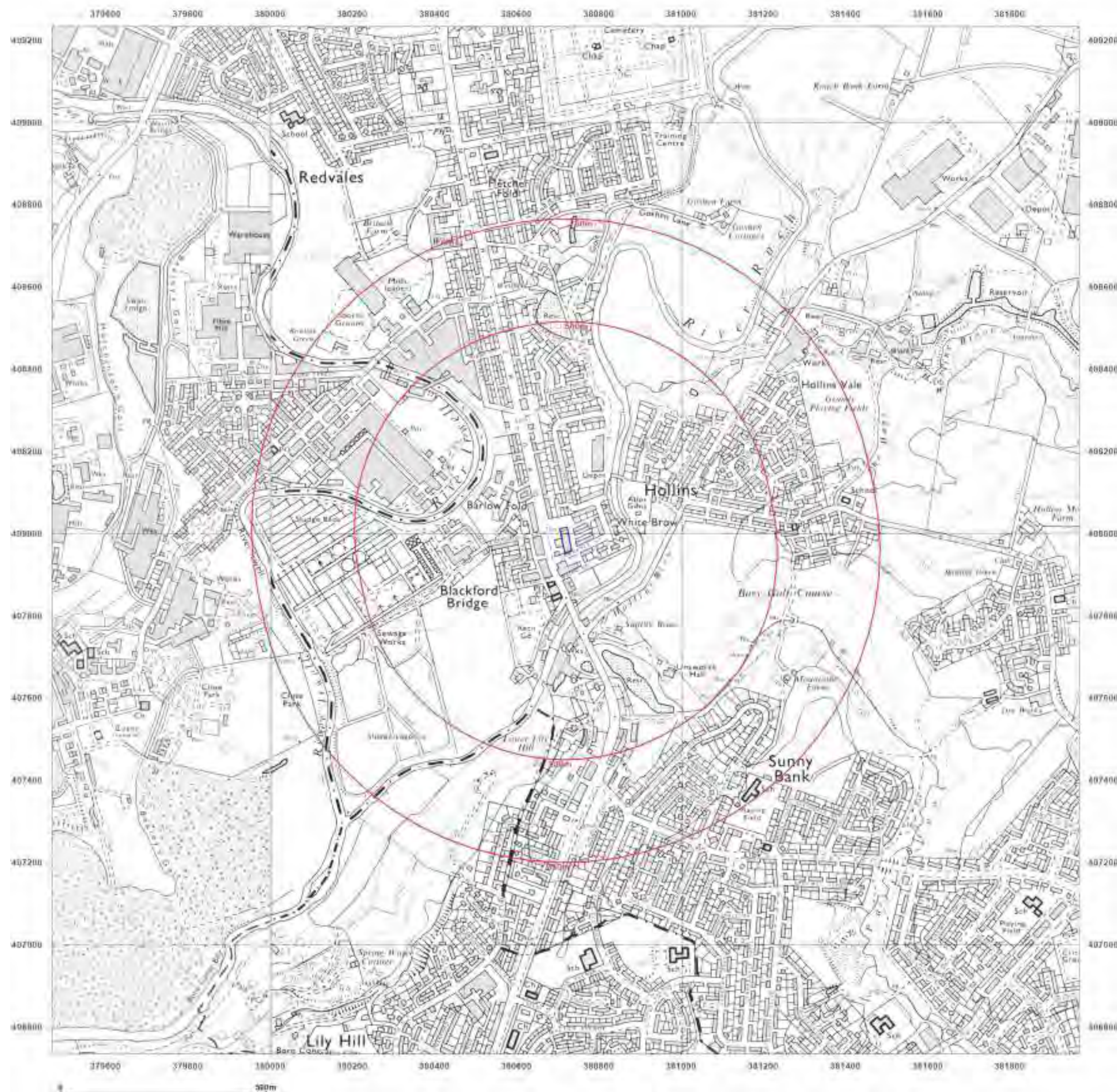


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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1981

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A



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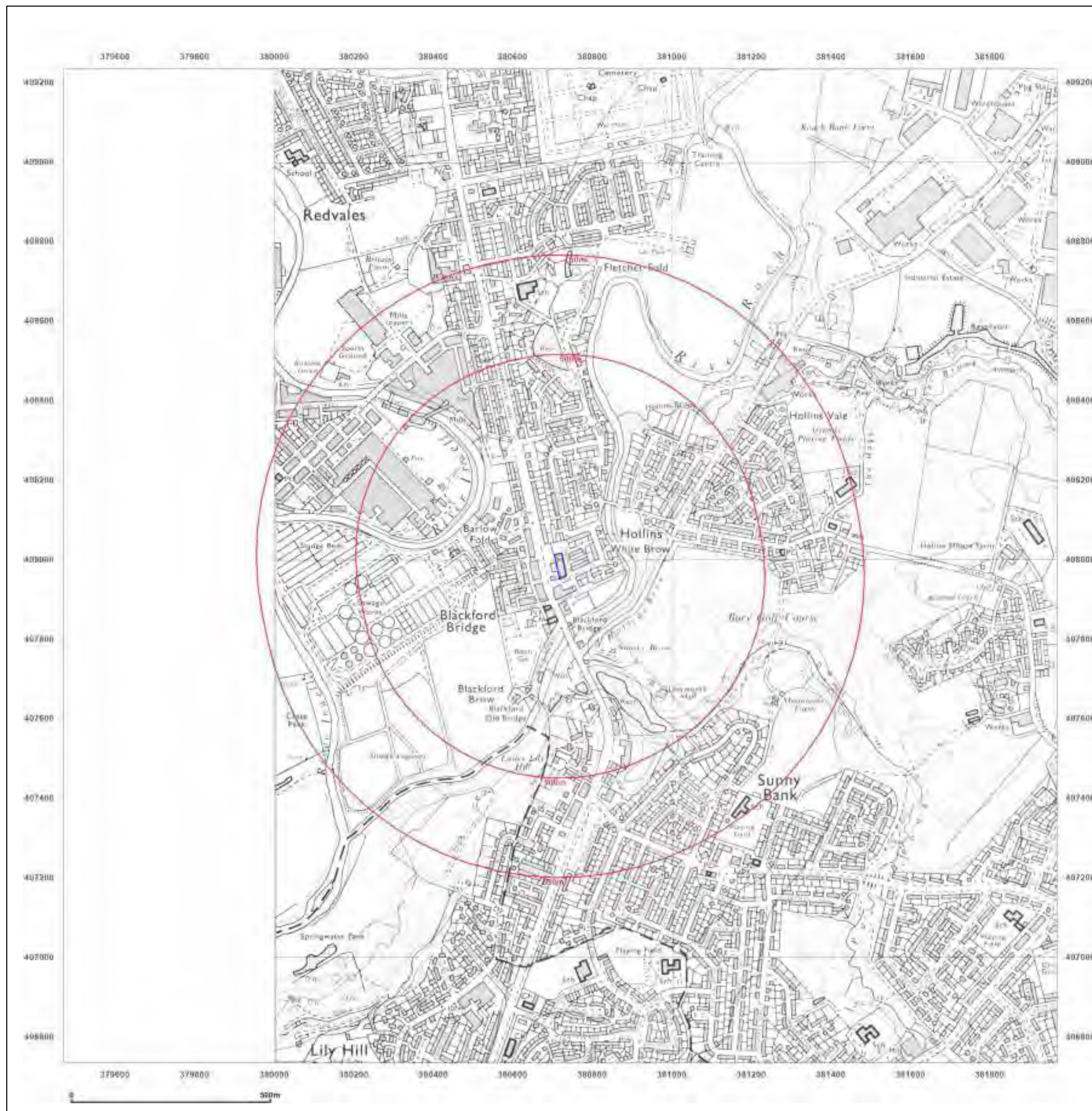


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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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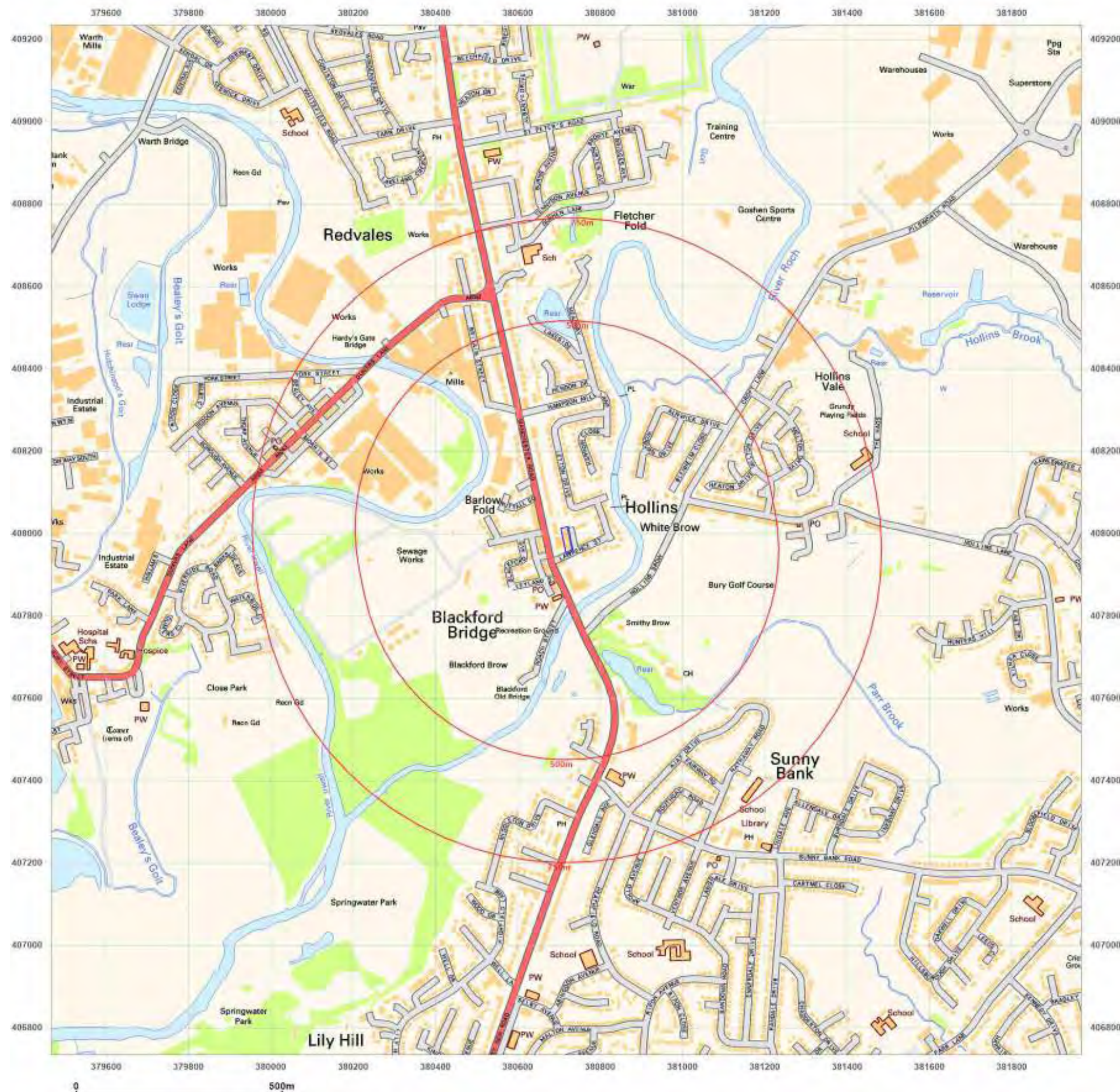


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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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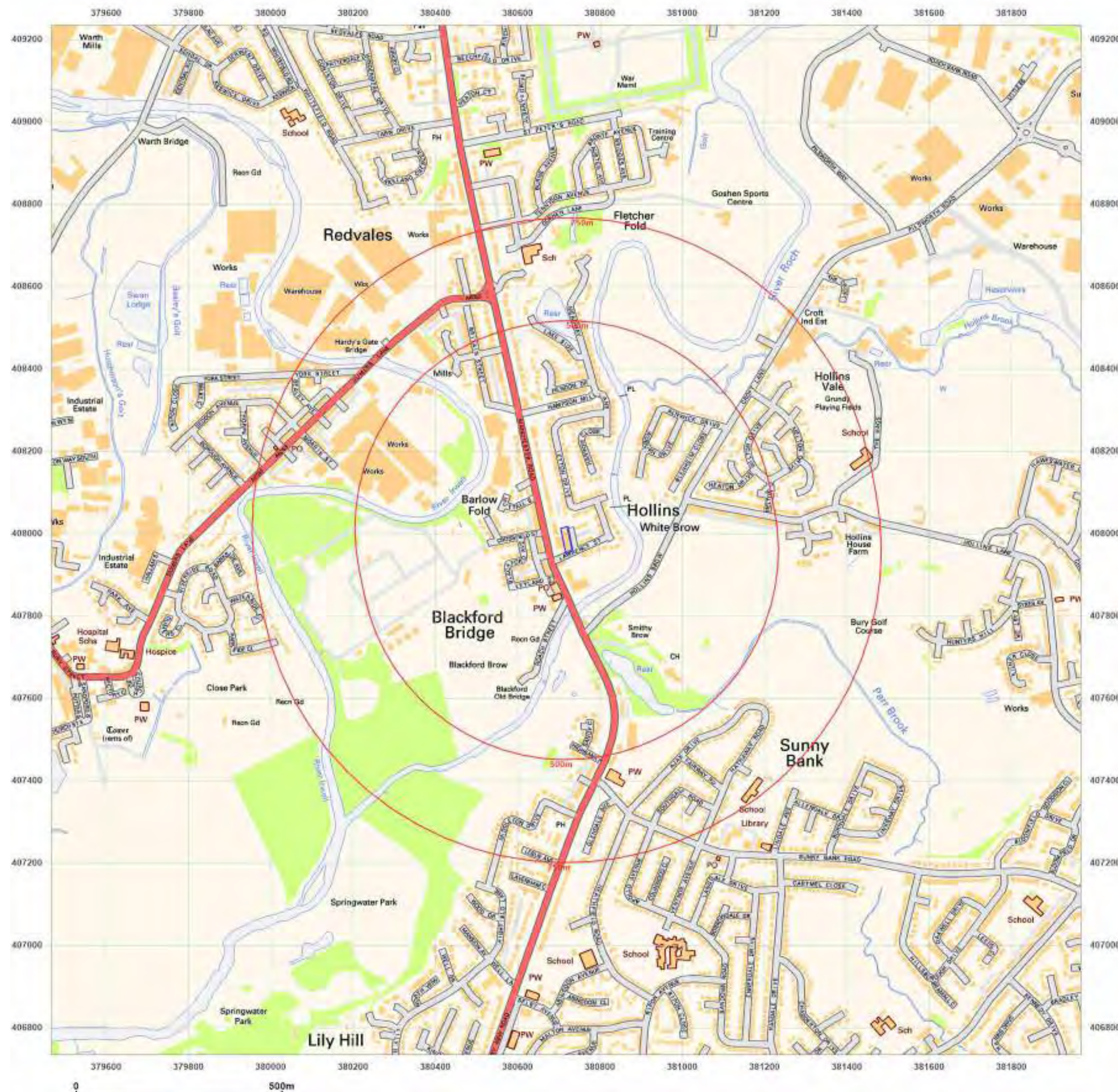


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Site Details:

5 Lawrence Street, Bury, BL9 9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



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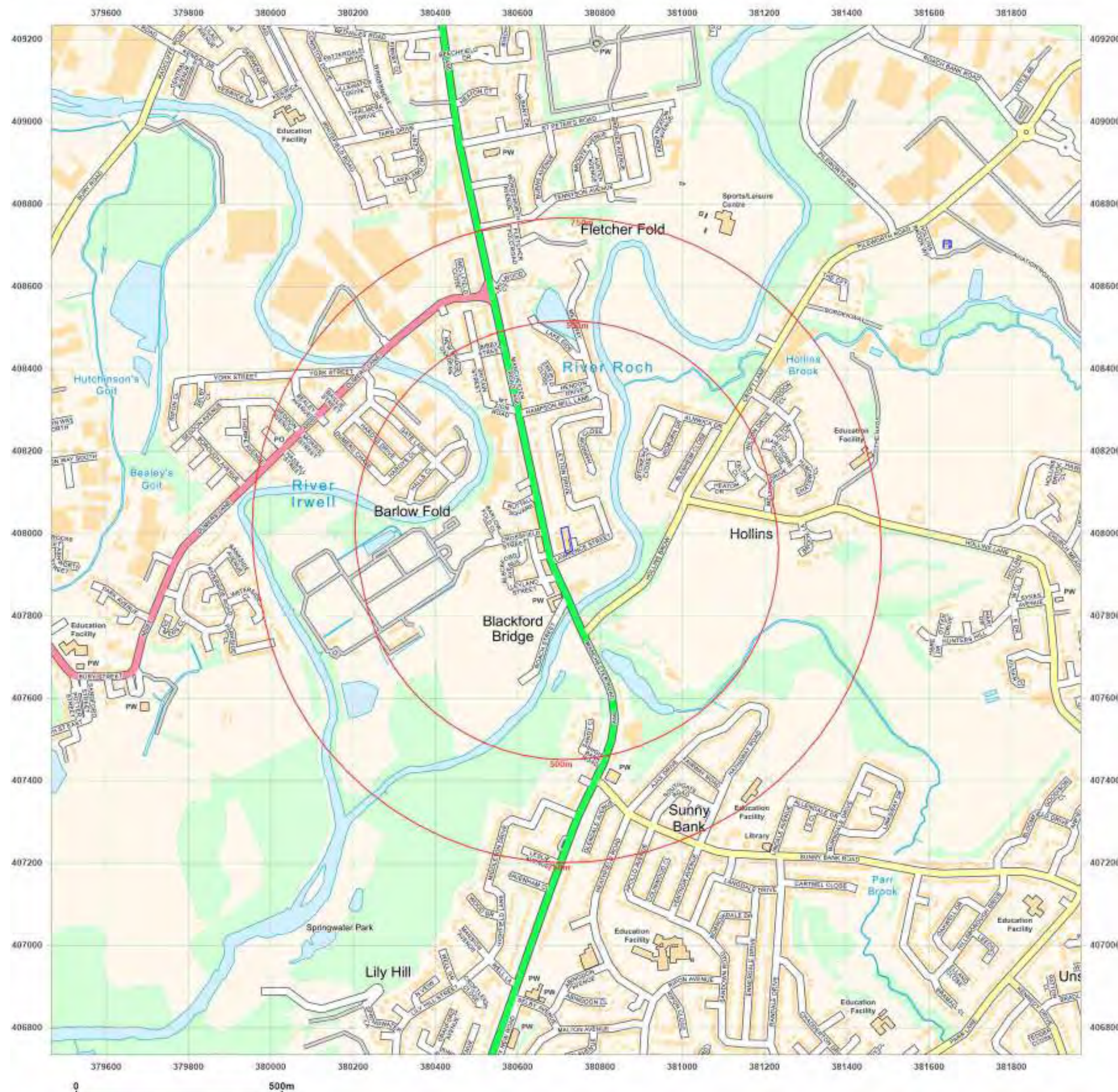


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LARGE SCALE SURVEY PLANS



Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series Town Plan

Map date: 1891

Scale: 1:500

Printed at: 1:1,000



Surveyed 1891
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised N/A
Edition N/A
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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1890-1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1890
Edition N/A
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Surveyed 1893
Revised 1893
Edition N/A
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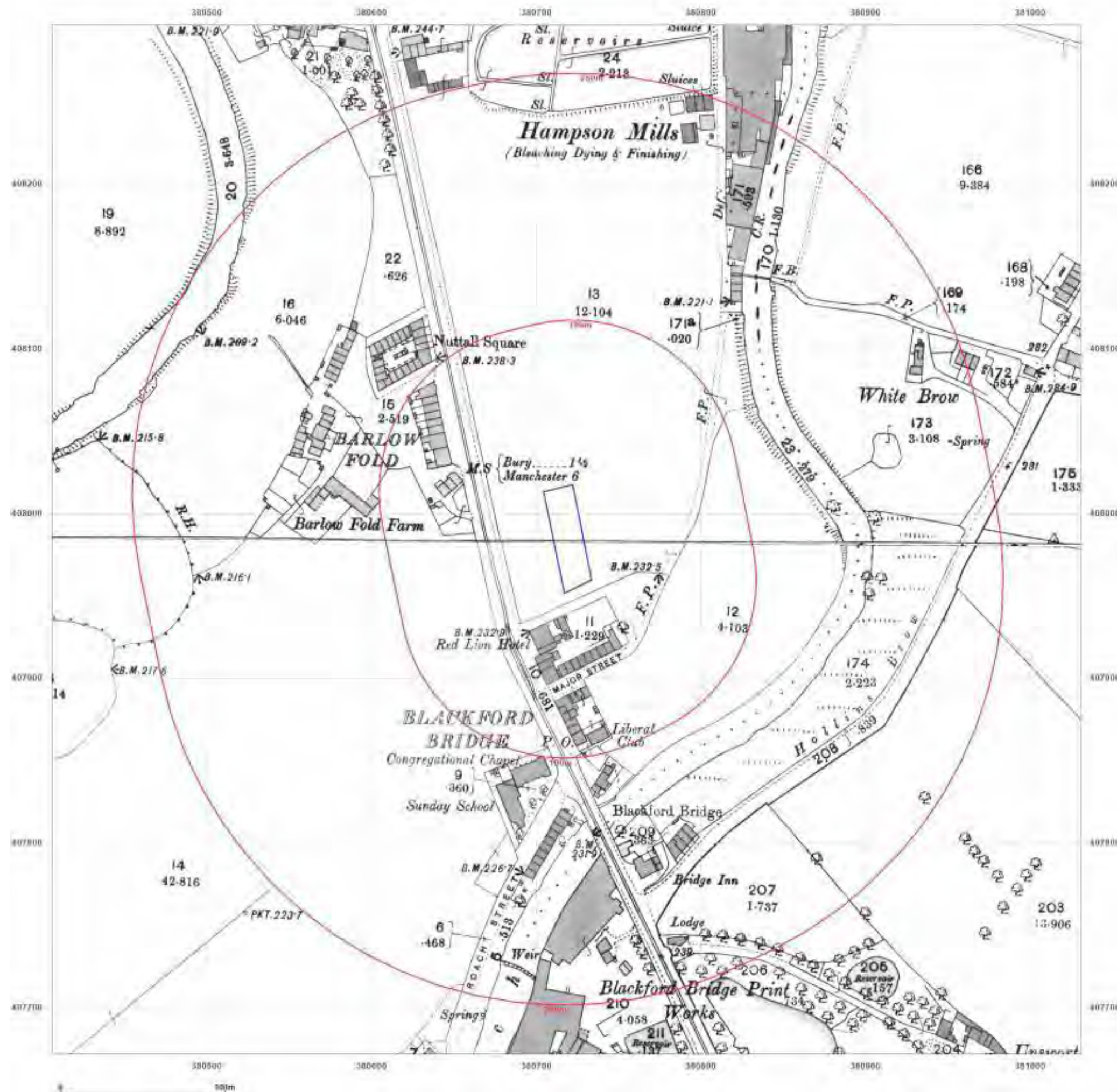


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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1909-1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
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Surveyed 1909
Revised 1909
Edition N/A
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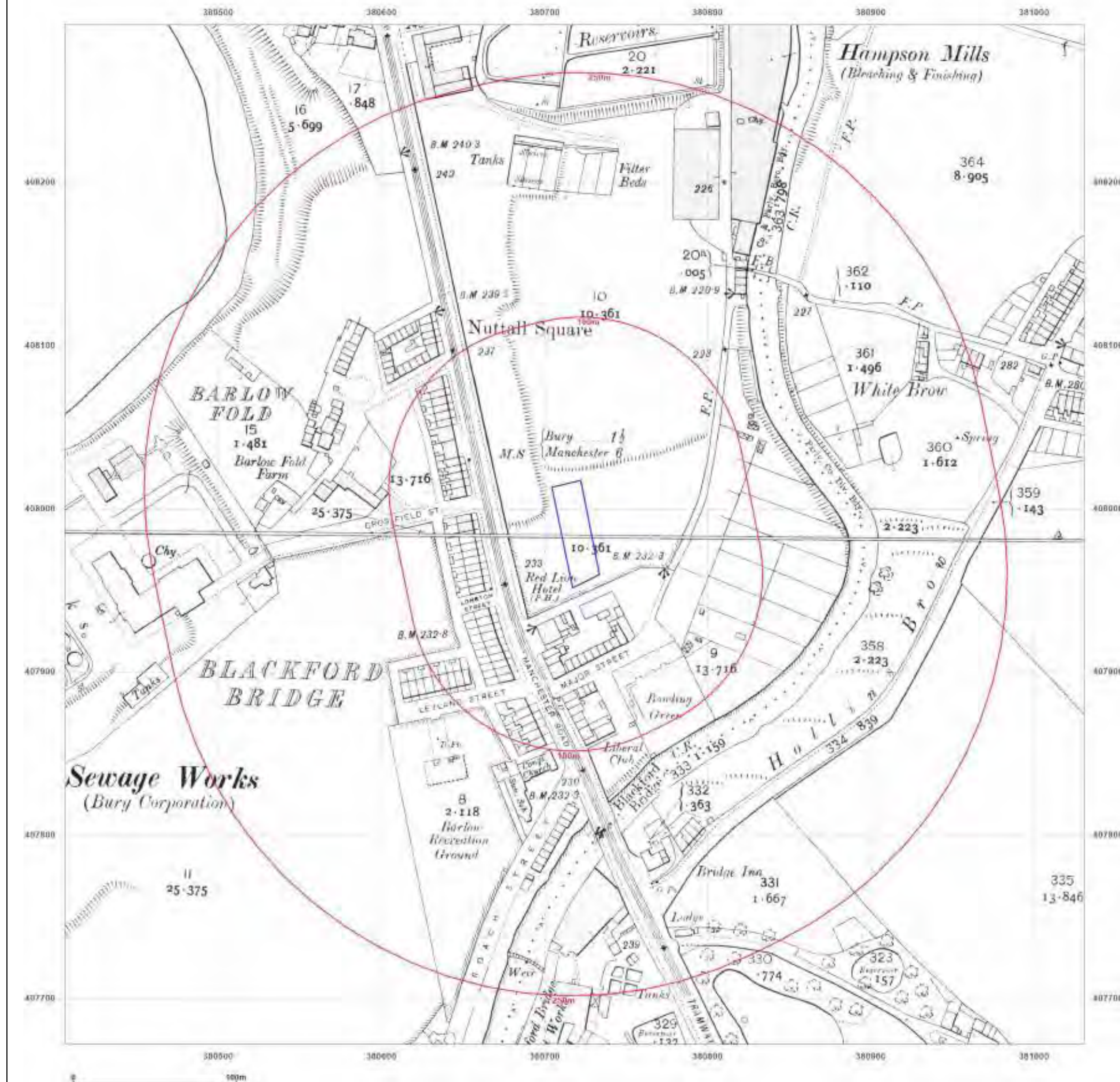


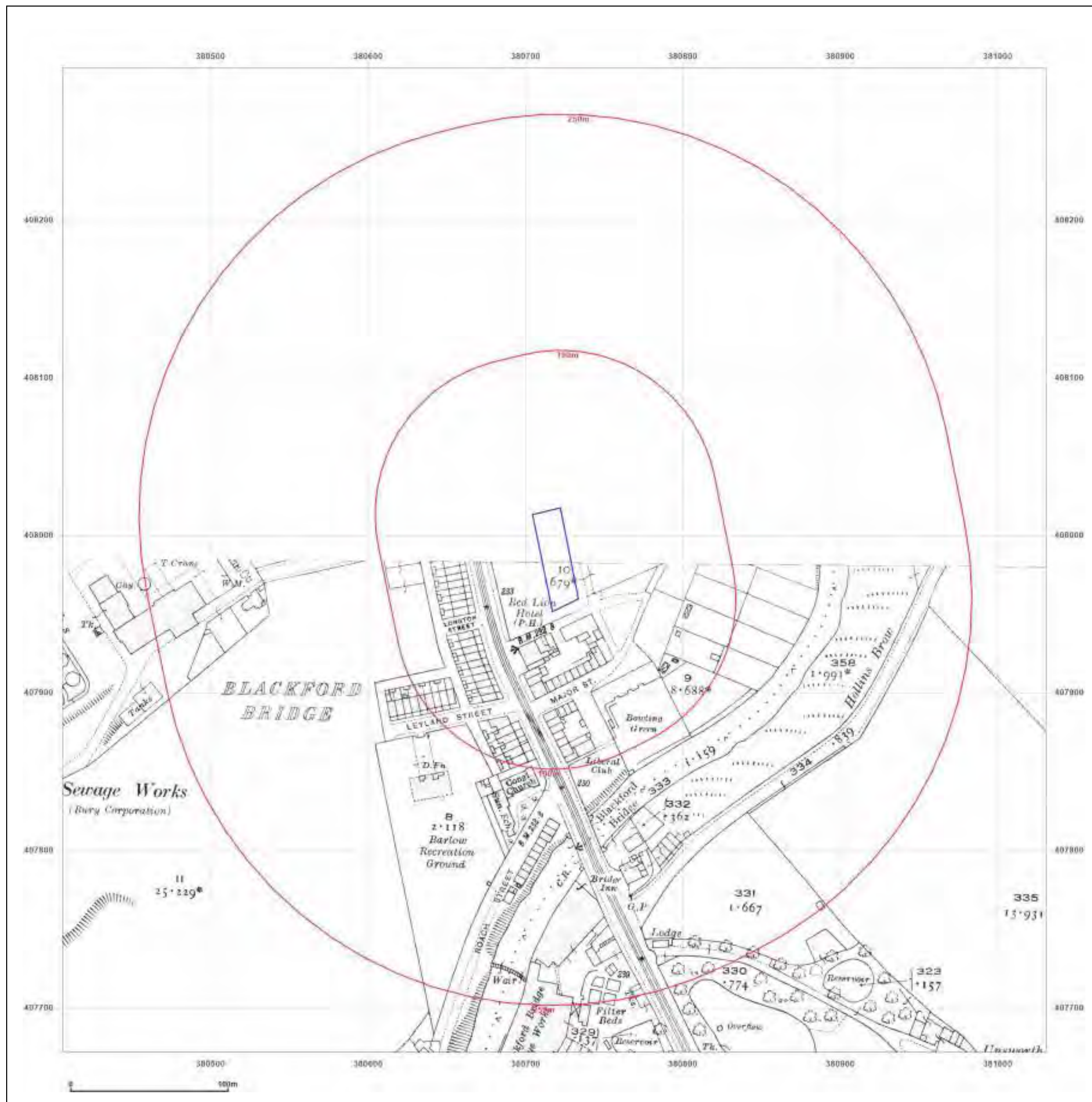
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Site Details:

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9SS

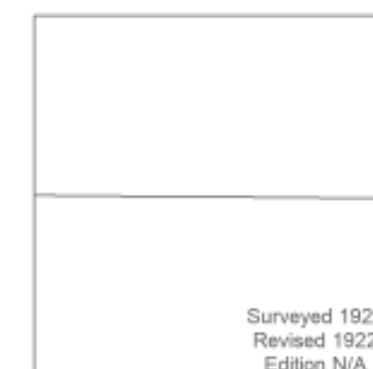
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Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1922
Revised 1922
Edition N/A
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Site Details:

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Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937
Edition N/A
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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

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 1927

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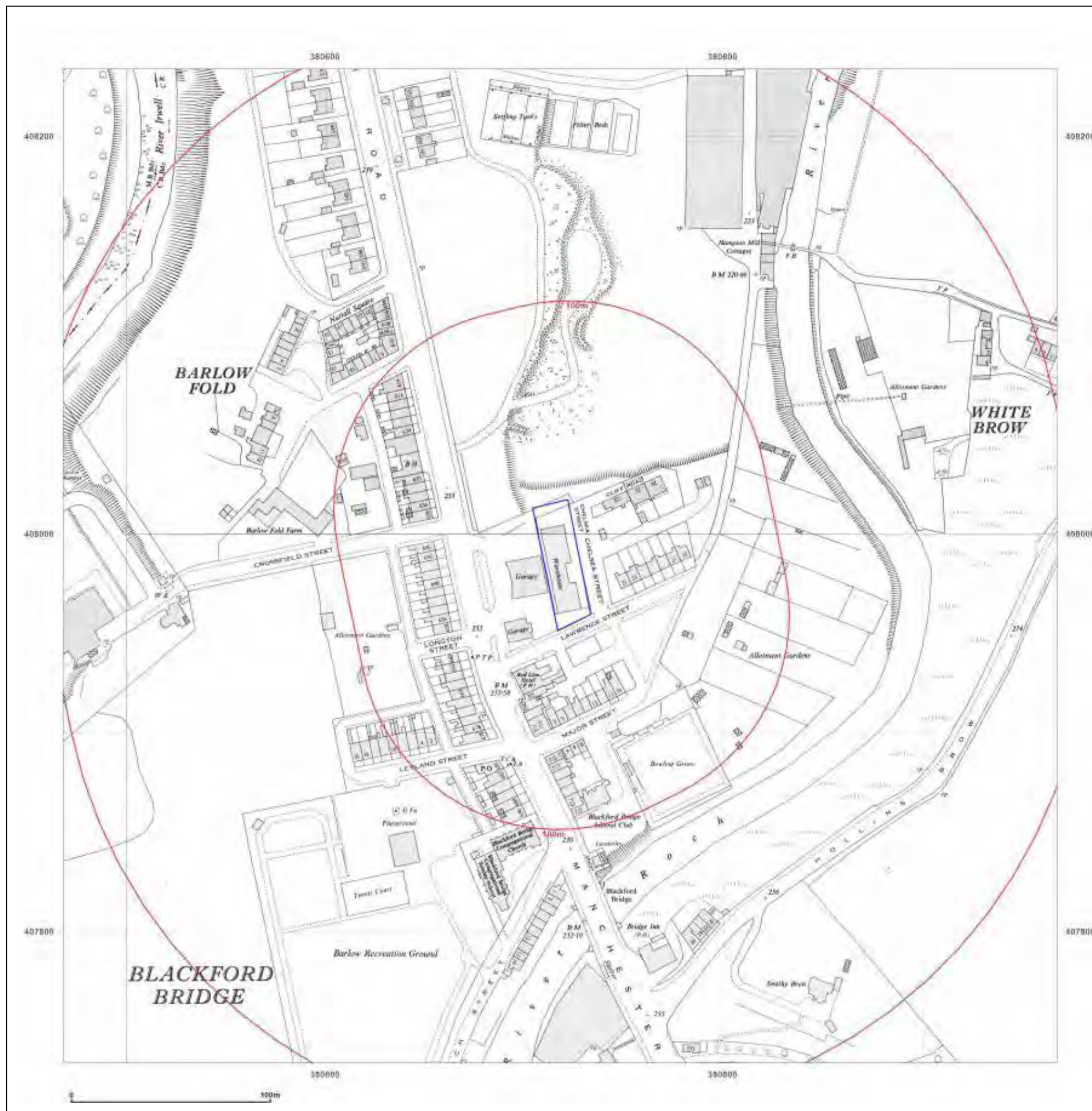


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1956

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
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Levelled 1927

Surveyed 1956
Revised 1956
Edition 1957
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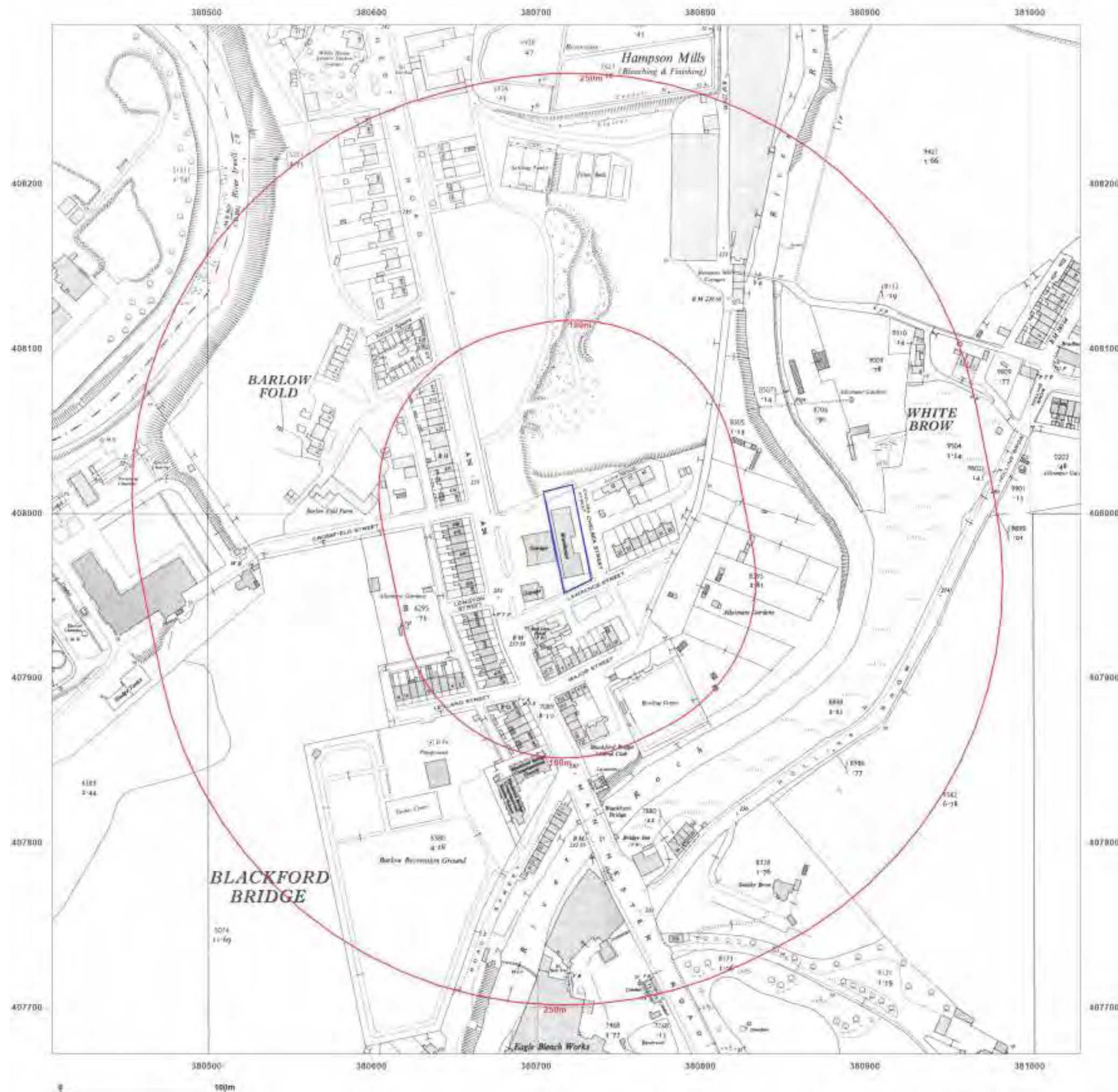


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

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

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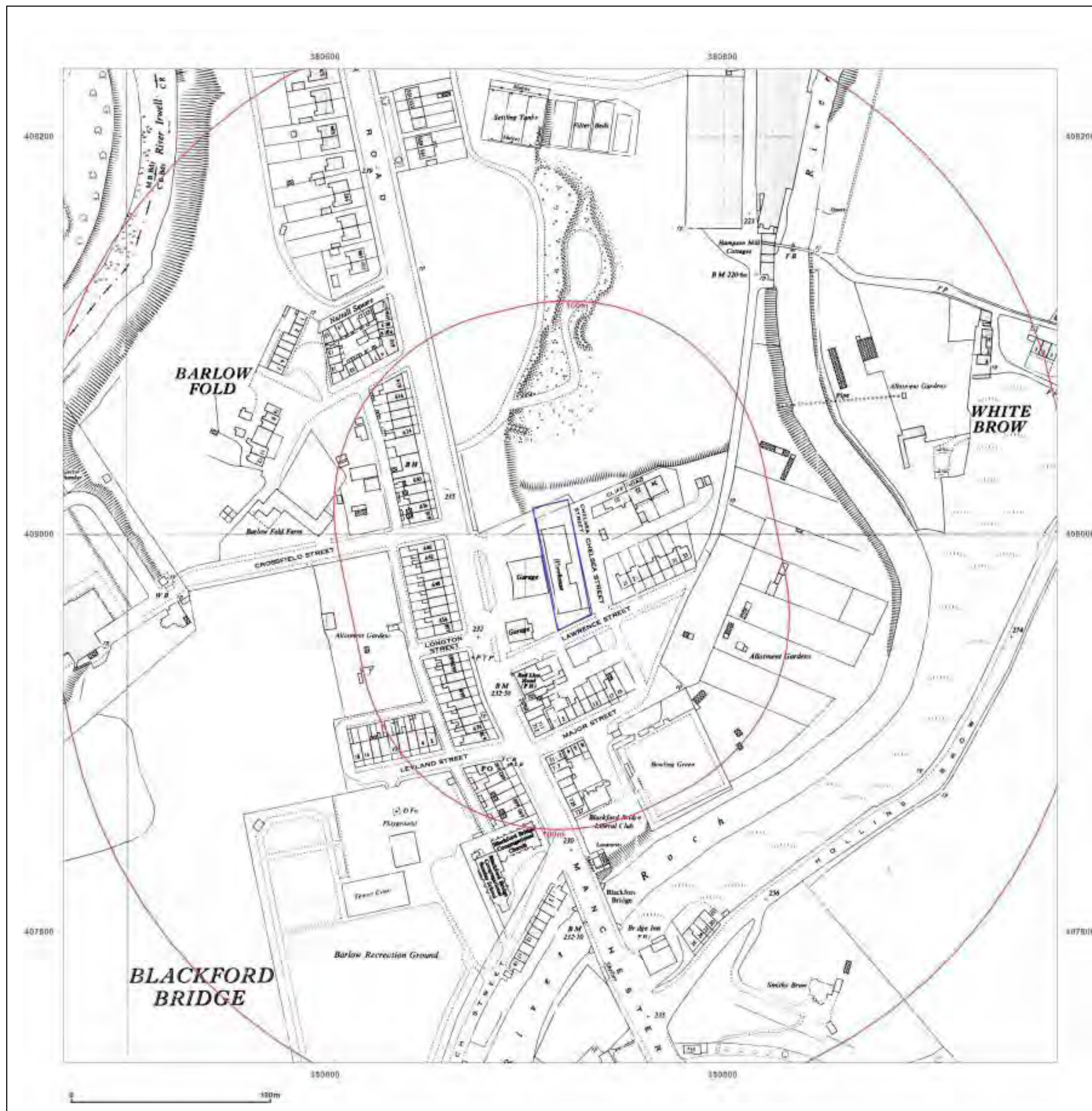


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Site Details:

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9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1964-1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
Revised 1966
Edition N/A
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Revised 1968
Edition N/A
Copyright 1969
Levelled 1962

Surveyed 1963
Revised 1963
Edition N/A
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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1968-1969

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1969
Edition N/A
Copyright 1971
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Surveyed 1968
Revised 1968
Edition N/A
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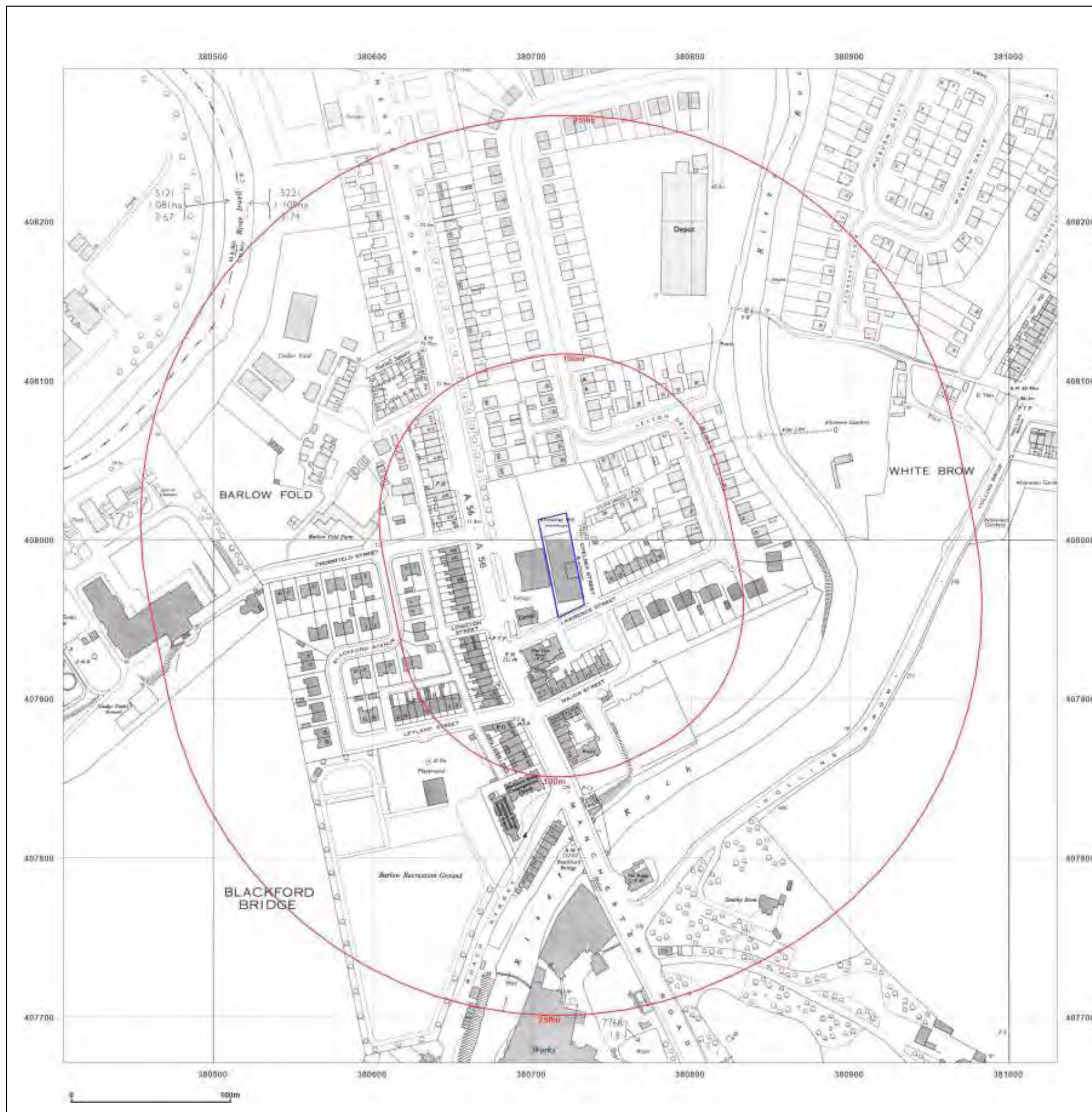


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1970

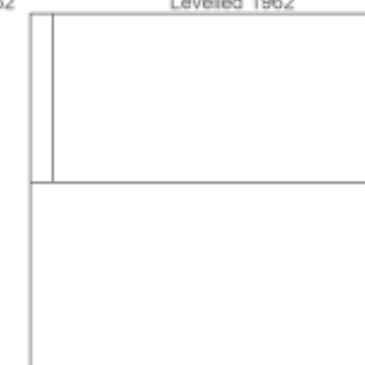
Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1956
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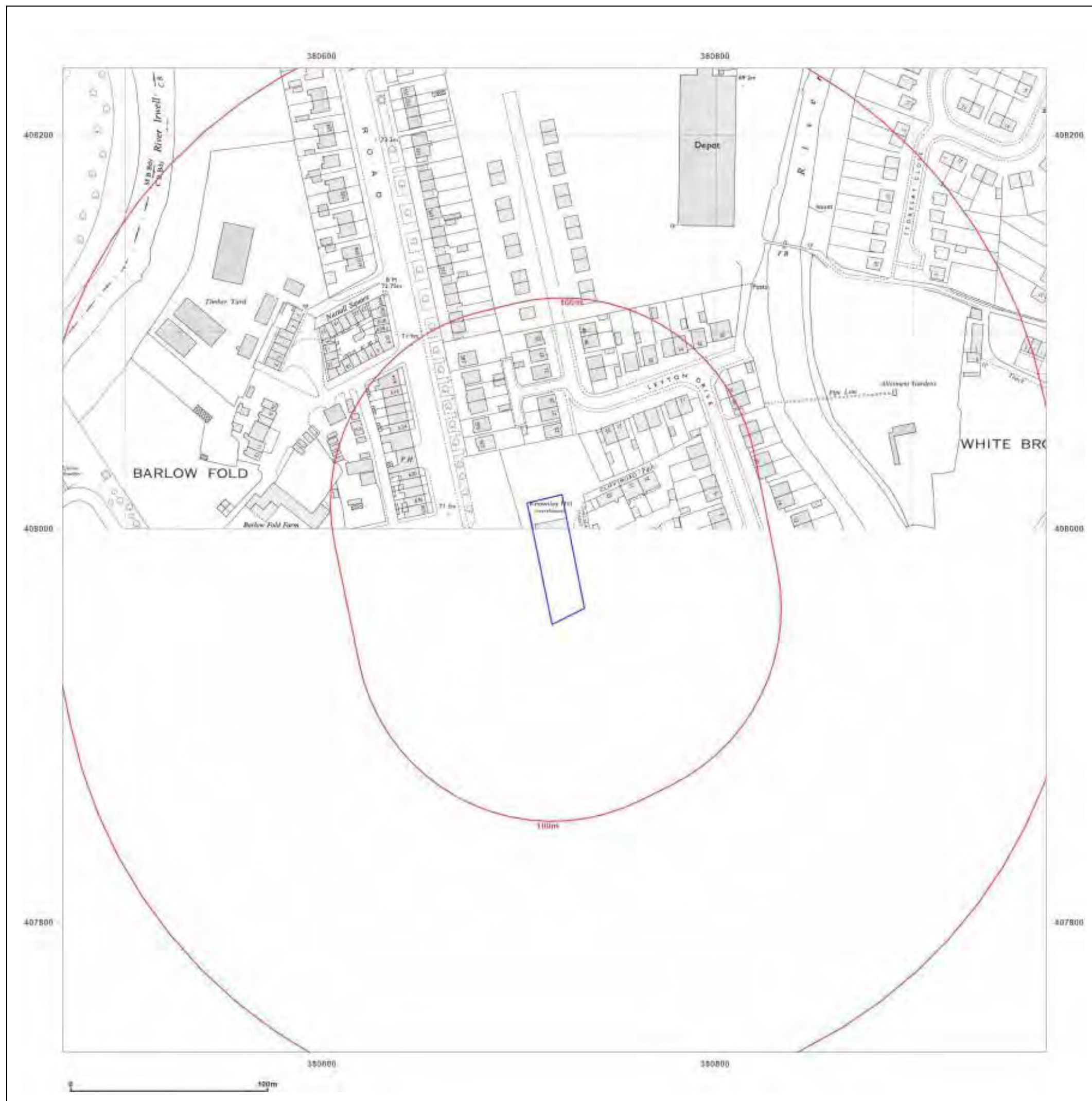


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1977-1981

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1983

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
Revised 1983
Edition N/A
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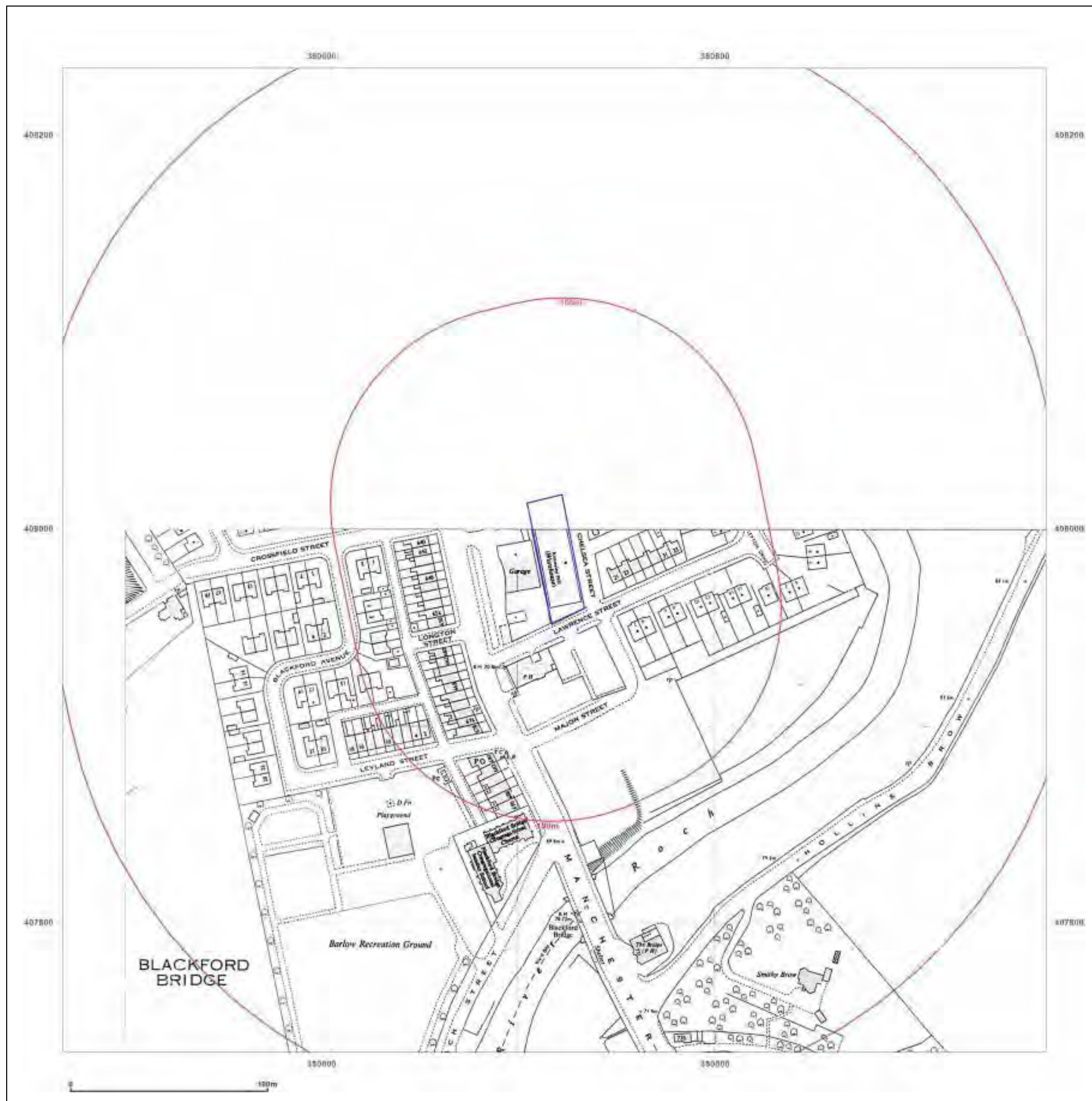


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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1982-1987

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

5 Lawrence Street, Bury, BL9
9SS

Client Ref: CMAPS-CM-1153321-4199-060324
Report Ref: CMAPS-CM-1153321-4199-060324HIS
Grid Ref: 380718, 407984

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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FIGURES



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Site: KNOWSLEY MILL, LAWRENCE STREET, BURY, GREATER MANCHESTER, BL9 9SS		Date Drawn: 26-Mar-24	Date Checked:	Orientation: 	Job Number: 7931
Client: ECOSCAPE UK LIMITED		Drawn By: DB	Checked By:	Scale: —	Figure Number: 1



SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Exploratory Hole Location Plan			
Site: KNOWSLEY MILL, LAWRENCE STREET, BURY, GREATER MANCHESTER, BL9 9SS	Date Drawn: 26-Mar-24	Date Checked:	Orientation: 	Job Number: 7931
Client: ECOSCAPE UK LIMITED	Drawn By: DB	Checked By:	Scale: -	Figure Number: 2

F

Four

Architects

113 Portland Street, Manchester, M1 4DW
Tel: 0161 4707969 Email: info@fourarchitects.co.uk

Project Title: PROPOSED RESIDENTIAL SCHEME	Status: PLANNING
Location: LAWRENCE ST / CHELSEA ST BURY	Date: FEB' 24
Sheet Name: PROPOSED - SITE PLAN_ROOF	Job Number: 23-028
	Sheet Number: FA-DR-03-102



2 ROOF PLAN
1:200



SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Site:
KNOWSLEY MILL, LAWRENCE STREET, BURY, GREATER
MANCHESTER, BL9 9SS

Client:
ECOSCAPE UK LIMITED

Proposed Development

Date Drawn: 26-Mar-24	Date Checked:	Orientation: 	Job Number: 7931
Drawn By: DB	Checked By:	Scale: -	Figure Number: 3