



INVESTIGATE



REMEDIATE



REGENERATE



DESK STUDY WITH WALKOVER SURVEY

**AT
16 SAXON STREET,
MILES PLATTING,
MANCHESTER**

**PREPARED FOR
SANDTON LONDON EC1Y LTD**

**REPORT NO. 7281A
FEBRUARY 2022**

SUB SURFACE NORTH WEST LIMITED

3 Peel Street
Preston
Lancashire
PR2 2QS

Tel: (01772) 561135 Fax: (01772) 204907

Email: preston@subsurface.co.uk

Website: www.subsurface.co.uk



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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	16 Saxon Street, Miles Platting, Manchester, M40 7BY
	Grid Reference	386345, 399200
	Current Land Use	Partly developed house with garden.
	Proposed Development	Detached two-storey house and garden.
Site History	On Site	The earliest survey of 1848 shows the site adjacent to a coal pit in a largely undeveloped area. By 1905 the site had been developed as part of an area of back-to-back terraced housing, which was demolished by 1984. In 2001 the site formed a side garden for a house to the south east with an extension built on site by 2010, subsequently separated for the present development.
	Beyond Site Boundary	The earliest survey indicates the area as largely undeveloped apart from several coal pits. By the late 1800s the surrounding area was undergoing residential development of mainly terraced housing. By 1905 the site formed part of two rows of terraced housing. By 1890 Gas works were developed 110m to the south, brick works 110m to the south east with a railway line and sidings 155m to the south east. Subsequent redevelopment shows extension of the gas works to 85m south east of the site, and removal and backfilling of four of the gasometers (circa 1930). By the 1980s much original housing had been demolished with subsequent redevelopment.
Geological and Mining Appraisal	Made Ground	None recorded – may be present associated with past developments.
	Superficial Geology	Glacial Till – gravelly sandy silty clays with sand and gravel horizons.
	Bedrock Geology	Pennine Upper Coal Measures Formation – interbedded mudstones, siltstones and mudstone with some coal seams.
	Radon	No Radon Protection Measures required.
	Mining	Refer to previous Geological & Mining Appraisal ref. 7281 dated August 2021 and Letter Report ref. GH/GC/GM12007/002 dated December 2021.
	Subsidence Hazards	Very low to negligible
Environmental Appraisal Recommendations	Landfill Sites	Landfill sites identified 186m to the south east and 215m to the south.
	Hydrogeology	Superficial Deposits comprises a Secondary Undifferentiated Aquifer. Bedrock strata comprises a Secondary A Aquifer. No Source Protection Zones within 500m. Groundwater abstraction point 614m to the north. No surface water or potable water abstraction within 1km.
	Hydrology	No water courses or surface water bodies identified within 250m.
	Flood Risk	Very Low – A Flood Risk Assessment is unlikely to be required.
	Industrial Land Uses	Coal pit located close to site in 1848. Historical gas works located approximately 85m to the south east.
Recommendations	A nominal intrusive ground investigation is required to assess the ground conditions and to obtain soil and water samples for contamination analysis. In addition the conceptual ground model indicates that ground gases might be present as a result of landfill within 250m of the site, 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 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.	

**DESK STUDY WITH WALKOVER SURVEY FOR 16 SAXON STREET,
MILES PLATTING, MANCHESTER, M40 7BY**

CLIENT: SANDTON LONDON EC1Y LTD

ARCHITECT: JEFFREY JORDAN ARCHITECTS

1. INTRODUCTION

This report has been prepared in accordance with an emailed instruction, dated 5th January 2022, from the Architect on behalf of the Client.

The brief was set out in our estimate, ref. E5079 dated 1st July 2021, and comprises a walkover survey and a desk study report including a historical, geological, mining and environmental appraisal together with a conceptual ground model.

We have previously issued a Geological & Mining Appraisal Report (ref. 781 and dated August 2021) for this site which should be read in conjunction with this report. The report identified significant risks to the development associated with abandoned mineshafts. Subsequently, a Letter Report (ref. GH/GC/GM12007/002 and dated December 2021) was issued by Wardell Armstrong providing additional information and assessment and concluded that there was a low risk from mineshafts indicating that the development “can proceed as planned using traditional shallow foundations”. We have not been instructed to review this information and provide an opinion. Consequently no further reference to the risk from mineshafts is included in this report.

1.1 Site Location and Description

The site is located at 16 Saxon Street, Miles Platting, Manchester, M40 7BY, as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 386345, 399200.

As shown on Figure 2, the site forms a trapezium shaped area with maximum dimensions of approximately 17m at the north east boundary and 23m width at the south west boundary. The site is situated to the north east of Saxon Street and adjoined to the south east by 16 Saxon Street. The northern and south eastern boundaries are formed by 106 Sandal Street and 24 Energy Street, respectively.

The site comprises an existing two-storey building which was originally built as an extension of a semi-detached house to the south east (16 Saxon Street). At the present time the extension building has been separated from the house by a narrow passageway, although the building work has not been completed. Away from the adjacent property the building is surrounded by a garden, with concrete footings present in the side garden, evidently part of the proposed redevelopment work.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is develop a detached house on the site comprising the existing building and an extension to the north west, as indicated 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.

1.3 Walkover Survey

The site walkover survey was undertaken on 5th January 2021. Photographs taken during the site walkover are appended with locations indicated on Figure 4. At the time of the walkover the site comprised a residential building and garden. The building consisted of a two storey brick built structure, formerly an extension to a two-storey brick built semi-detached house adjacent to the south east boundary. The space between the buildings comprised an approximately 1.5m wide passageway. A steel structural beam remained in place connecting the buildings at first floor level. Several wires and cables were also present. Both properties were unoccupied and in some disrepair, as can be seen in the appended walkover photographs.

The gardens comprised generally level grassed areas, locally overgrown with weeds and brambles. An immature tree was also situated to the rear of the house. A short tarmac driveway was situated in the front garden and occasional small paved areas were noted elsewhere. Adjacent to the north west of the building concrete strip footings and service pipes were present, evidently part of the proposed development.

Several small old mounds of bricks and other building materials, occasional doors, wooden frames and pallets were present to the rear of the property. A number of bins were stored adjacent to the entrance gate. However there were no significant visual or olfactory contamination 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	Scale
1848	1:10,560
1890-1891	1:10,560
1905-1906	1:10,560
1923	1:10,560
1933-1934	1:10,560
1938	1:10,560
1951	1:10,560
1956	1:10,560
1966-1968	1:10,560
1980-1981	1:10,000
1985	1:10,000
1988-1991	1:10,000
2001	1:10,000
2010	1:10,000
2021	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Scale
1891	1:500**
1893	1:2,500
1908	1:2,500
1922	1:2,500
1931	1:2,500
1948	1:1,250*
1949	1:2,500
1952-1955	1:1,250*
1968	1:1,250*
1970	1:2,500
1979-1984	1:1,250*
1986-1991	1:1,250*
1989-1992	1:1,250*
1992-1995	1:1,250*
2003	1:1,250

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* Published scale, the appended extract is reproduced at 1:2,000

** Published scale, the appended extract is reproduced at 1: 1,000

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1848	The earliest survey shows the site located on land adjacent to a coal pit, situated in close proximity to the eastern boundary.	The site is largely surrounded by fields with a stream (Shooters Brook) located close to the north west boundary where a footbridge and footpath are present. Numerous coal pits are shown in the surrounding area with the nearest approximately 100m to the south, 130m to the north and 140m to the north east. Several ponds are shown, including 180m to the south, 190m to the east and 210m to the north. A brick field and nearby kiln are depicted 230m to the south west. In the wider area Rochdale Canal is depicted 260m to the north west with chemical works and a tannery located adjacent to the north west bank.
1890-1893	The site is shown as part of open undeveloped land. The coal pit is no longer shown.	Terraced housing has been developed to the south and west of the site with the nearest 20m to the south beyond Saxon Street which is denoted to the south west. Gas works including several gasometers are shown 110m to the south and brick works 110m to the south east. A railway line including sidings is shown 155m to the south east with spoil heaps depicted beyond. Chemical works are shown 220m to the north west. Ponds to the south and east have been evidently backfilled and the stream is no longer shown, possibly culverted or infilled. An additional pond is shown 180m to the north west.
1905-1908	The south west is developed with central houses and back yards of a terraced block opening onto Saxon Street which delineates the south west boundary. The north east of the site is straddled by the central houses and back yards of a second terraced block opening onto Nador Street to the north east. The passage way between the two blocks properties bisects the site from north west to south east.	Terraced housing adjoins the site to the north and south east, with additional housing further to the north east and south east. A school is shown 105m to the north west. Buildings associated with the gas works have been developed 85m south east of the site. The brick works have been removed with earthworks depicted in the cleared area 80m to the south east. The remaining ponds are no longer shown, presumably backfilled.
1922-1923	No changes are noted at this time.	Additional terraced housing has been developed 45m to the north, 55m to the west and 70m to the north east. Possible works are shown 180m to the north west.

1931-1938	No changes are noted at this time.	The survey indicates four gasometers, located some 120m to the south, have been decommissioned, with one removed, and two partially backfilled. A new gasometer is shown some 270m to the south west. Additional development is shown within the gas works to the south east of the railway line including numerous railway sidings.
1948-1956	No changes are noted at this time.	By this time the four gasometers have been completely removed and the area partly redeveloped as recreational ground. New houses are shown 80m to the north east following demolition of the originally terraced housing. An electricity substation and a series of tanks are shown adjacent to the chemical works 230m and 245m to the north west, respectively.
1966-1981	No changes are noted at this time.	Some redevelopments, including flats and public houses, are depicted to the south west of the site following demolition of the original terraced housing. New buildings are shown at the gas works 95m to the south. The school to the north west has been further developed with several extensions.
1984-1985	The houses on site have been demolished.	Many of the surrounding terraced houses have also been demolished. New housing developments are shown 90m to the north east. Much of the gas works infrastructure and railway sidings to the south east of the railway line have been removed.
1986-1995	Footpaths are depicted crossing the site.	Further building development is shown at the gas works to the south with tanks also depicted 180m to the south. A landscaped recreational area is depicted 140m to the north. The 1992 survey shows the school to the north west has been demolished.
2001-2003	The site is located within a new housing development and comprises the side garden for 16 Saxon Street: a semi-detached house located adjacent to the south east boundary.	The site is bound to the north, south east and south west by new residential properties largely comprising semi-detached houses with gardens. Terraced housing previously located 60m to the west of the site has been demolished.
2010	The site has been developed with an extension to 16 Saxon Street.	No significant changes are noted.
2021	Aerial photographs indicate the extension has been separated from the original house forming a detached building as found at the present time.	New housing is shown 60m to the west of the site.

2.2 Geological Appraisal

We have previously issued a Geological and Mining Appraisal Report (ref. 7281 and dated August 2021) for this site which included a coal mining risk assessment associated with abandoned mineshafts and shallow mineworkings. Reference should be made to this report and a subsequent Letter Report (ref. GH/GC/GM12007/002 and dated December 2021) issued by Wardell Armstrong, for a detailed assessment of historical coal mining related risks including abandoned mineshafts.

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

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.

Superficial Geology (Drift Deposits)

The site is indicated to be underlain by Glacial Till, which normally comprises slightly gravelly slightly sandy silty clays with variable cobbles and boulders and horizons of sand and/or gravel.

Bedrock Geology

The site is indicated to be underlain by Pennine Upper Coal Measures Formation bedrock. Coal Measures strata in this area normally comprise interbedded mudstones, siltstones and subordinate sandstones with occasional economically important mineral seams of coal and ironstone.

Coal seams are identified outcropping at rockhead, 59m and 137m to the north east, and 65m and 192m to the south west.

Potential Hazards in Natural Ground

The report states that the site has a very low to negligible hazard rating of natural subsidence due to shrink-swell clays, landslides, ground dissolution of soluble rocks, compressible deposits, collapsible deposits and running sands.

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).

Mining and Ground Workings

For issues relating to coal mining in the area of the site, reference should be made to the previous reports.

The British Geological Surveys "BritPits" database contains details of currently active and closed surface and underground mineral workings. There are two records of BritPits within 500m of the site boundary, for former brick works located 315m to the north east and 318m to the south.

Historical surface ground workings within 250m of the site as identified in the report include coal pits 7m to the north and 111m to the east, brick works 74m to the south, unspecified pits 134m and 178m to the south, ponds 178m to the north east, 201m to the east and 226m to the north, a refuse heap 200m to the east, and a brick field 234m to the south west.

Historical underground workings identified within 1 km of the site are shown as a colliery 918m to the south.

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. The report indicates there is a potential for mining of vein minerals and limestone 463m to the south west and 920m to the south of the site respectively. Given the distance from the site, any risks to the development are considered negligible.

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 479,000 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.

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.

Railway Infrastructure

The report identifies numerous records of historical railway infrastructure to the south east of the site, largely comprising railway sidings associated with former gas works, with the nearest 143m to the south. There are no railway tunnels identified within 250m of the site.

An active railway is present 165m to the south east.

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

2.4 Environmental Appraisal

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

Historical Industrial Land Use

Historical potentially contaminative industrial land uses identified within 250m of the site include coal pits 7m to the north, 94m to the south east, 111m to the east and 149m to the north east, brick works 74m to the south east, unspecified works 82m to the south and 86m to the south east, and unspecified pits 84m to the south east and 134m to the south.

Gas works are identified 69m to the south east, with gasometers located 125m, 158m, 199m and 210m to the south. Unspecified tanks are also identified 156m, 186m and 201m to the south.

Electricity substations are identified 127m to the south west and 234m to the north west.

Landfill

According to the report there are no regulated active, recently closed and/or historical landfill sites within 250m of the site.

The Environment Agency have two records of known historical (closed) landfill sites, where there is no PPC permit or current waste management licence, within 250m of the site boundary, located 186m to the south east and 215m to the south. The nearest of these comprises an extensive area formerly occupied by gas works, with waste types of inert, industrial and special and an operating license from 1979 to 1983.

Within 250m of the site boundary, our historical appraisal has also identified potential unregistered landfills in the form of infilled gasometers, located 120m to the south, which may be a source of ground gas,

Waste

The report indicates there are no historical, active or recently closed waste sites within 250m of the site.

The report identifies one site with a storing waste exemption permit within 250m of the site; an unspecified waste storage facility located 116m to the east.

Current Industrial Land Use

Current potentially contaminative industrial land uses within 250m of the site identified in the report include a vehicle repair and service garage 91m to the south east, a warehouse 127m to the south, an electricity substation 129m to the south west, a mast 159m to the south east, a chimney 175m to the south, a recycling site 182m to the north east, a tank 185m to the south, and a gas holder station 212m to the south.

National Grid data indicates that there are currently no high voltage underground electricity transmission cables or high pressure underground gas transmission pipelines within 250m of the site.

Sites Determined as Contaminated Land

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

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 there are two historical dangerous or hazardous sites within 250m of the site boundary, located 153m to the east and 227m to the north west.

Regulated Explosives Sites

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

Hazardous Substance Storage and Usage

There are three 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 250m of the site boundary, the nearest located 173m to the south west.

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 within 250m of the site.

Licenced Industrial Activities (Part 1(A))

The Environment Agency indicate that there are no records of Part 1(A) installations regulated under the 2016 Environmental Permitting Regulations for release to the environment within 250m of the site.

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 Regulations for the release of substances to the environment within 250m of the site.

Radioactive Substance Authorisations

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

Licensed Discharges to Controlled Waters

Within 250m of the site, there are no records of licensed discharges of treated or untreated effluent to controlled waters, as recorded by the Environment Agency.

Pollutant Release to Surface Waters (Red List)

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

Pollutant Release to Public Sewers

According to Environment Agency records there have been no discharges of special category effluents to public sewers within 250m of the site.

List I and List II Dangerous Substances

The Environment Agency records indicate that there has been one discharge of a List II Dangerous Substance within 250m of the site; detailed as cyanide discharged at location 242m to the north west. Although no further details are provided, given the distance we would consider any impact to the site as negligible.

Pollution Incidents

According to the Environment Agency there is one record of a substantiated pollution incident within 250m of the site boundary which occurred 169m to the north west in 2002 causing a Category 3 (Minor) impact to air. In our opinion any impact to the site would be negligible.

Pollution Inventory Substances

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

Pollution Inventory Waste Transfers

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

Pollution Inventory Radioactive Waste

The Environment Agency indicate that there have been no reports on annual releases of radioactive substances within 250m.

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 glacial till which are indicated to be a Secondary Undifferentiated aquifer. The bedrock is anticipated to be Coal Measures strata which are indicated to comprise a Secondary A aquifer.

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. An undifferentiated aquifer probably comprising interbedded high and low permeability layers.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as "Low", 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, within 1km of the site there is one licensed groundwater abstraction points located 614m to the north, however there are no licensed surface water abstraction points within 1km of the site and no licensed potable water abstraction points identified within 2km of the site.

The report indicates there are no Source Protection Zones, set up to protect a water source, within 500m of the site of boundary.

Hydrology

The Ordnance Survey indicate that there are no watercourses (river, stream or canal) and no surface water features (ponds or lakes), within 250m of the site.

The Water Framework Directive (WFD) identifies the site is within the Medlock Catchment and identifies the groundwater body as part of the Manchester and East Cheshire Permo-Triassic Sandstone Aquifers.

Flooding

Flooding data is maintained by the Environment Agency. The Risk of Flooding from Rivers and Sea (RoFRaS) database indicates that within 50m of the site boundary the highest risk of flooding is "Very Low".

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

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

The site is not located within 50m of a Flood Zone 2 or Flood Zone 3.

According to Ambiantal Risk Analytics surface water "FloodMap" for a 1 in 1000 year return period there is a negligible risk of flooding on the site and a 0.3m to 1.0m risk of flooding within 50m 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 moderate to high risk of groundwater flooding on the site.

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

Environmental, Agricultural and Habitat Designations

The report identifies one environmental sensitive sites within 1km of the site; a nitrate vulnerable zone 669m to the north.

The Forestry Commission indicates that there are tree felling licences for 25m north west of the site.

Natural England indicate that there are three open mosaic habitats within 250m of the site, with the nearest located 108m to the north west.

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.

Sources

Potential sources of contamination identified in the desk study are:

- General contaminants including asbestos in made ground derived from past building and demolition processes, waste materials and past site activity.
- Hydrocarbon contamination from spillage and leakage of oils and fuels associated with past site activity. The site was previously occupied by back-to-back terraced houses with back yards and an intervening access road, which may have been used for storage of vehicles and machinery.
- Migration of ground gases from landfill within 250m of the site including landfill site 186m to the south east.

Pathways

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

- Direct contact with and ingestion of contaminated soil and inhalation of dust by site workers during construction and by end users of the site in garden areas.
- Inhalation of vapours by site workers during construction and by the end users of the site in enclosed spaces.
- Uptake of contaminated groundwater by plants grown in the gardens.
- Consumption by end users of the site of contaminated fruit and vegetables grown in the garden areas.
- Migration of contaminants to the underlying aquifer.
- Accumulation of ground gases in enclosed spaces.

Receptors

Potential receptors for the proposed development are:

- Site workers during the construction phases.
- The residents who will be the end users of the site.
- Controlled waters including the underlying aquifer.
- Plants grown in the garden areas.

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 present on site	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 Ingestion of dust Ingestion of contaminated vegetable produce Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Low
			Uptake via contaminated groundwater	Vegetation	Low
			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
Vehicles/ Machinery associated with past land use	Fuel/ oil spillage and/or leakage from machinery and/or vehicles	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX)	Ingestion of soil Ingestion of dust Ingestion of contaminated vegetable produce Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Very Low
			Uptake via contaminated groundwater	Vegetation	Very Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Very Low
			Direct contact	Structures and Services	Very Low
Landfill/ infilled ground within 250m including 186m to the south east	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Low

The conceptual ground model indicates that a nominal 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.

With regard to risks associated with historical coal mining reference should be made to the previous issued reports, as detailed above.

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 would recommend that consultation is undertaken with and written approval obtained from the Local Council Contaminated Land Officer, the Building Control Officer and the Coal Authority

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 Miss Anna Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 7281A
FEBRUARY 2022

T. Plum B.Sc.(Hons.), M.Sc., F.G.S.
Senior Geoenvironmental 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



SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, Lancashire, PR2 2QS Tel: (01772) 561135 Fax: (01772) 204907

Photographs

Site: 16 SAXON STREET, MILES PLATTING, MANCHESTER
Client: SANDTON LONDON EC1Y LTD
Architect: JEFFREY JORDAN ARCHITECTS

Job Number:
7281A
Sheet:
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Survey Date:
05/01/21

WALKOVER SURVEY PHOTOGRAPHS

1



2



3



4



5



6





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05/01/21

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7



8



9



10



11



ENVIRO+GEO INSIGHT REPORT

16 Saxon Street, Manchester, M40 7BY

Order Details

Date: 25/06/2021
Your ref: 4199
Our Ref: CMAPS-CM-972302-4199-250621EDRGEO
Client: CENTREMAPS

Site Details

Location: 386350 399195
Area: 0.03 ha
Authority: [Manchester City Council](#)



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Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>13</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	0	1	60	155	-
<u>21</u>	<u>1.2</u>	<u>Historical tanks</u>	0	0	37	282	-
<u>33</u>	<u>1.3</u>	<u>Historical energy features</u>	0	0	24	21	-
35	1.4	Historical petrol stations	0	0	0	0	-
<u>35</u>	<u>1.5</u>	<u>Historical garages</u>	0	0	0	3	-
36	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
<u>37</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	0	1	95	228	-
<u>49</u>	<u>2.2</u>	<u>Historical tanks</u>	0	0	62	423	-
<u>67</u>	<u>2.3</u>	<u>Historical energy features</u>	0	0	50	43	-
70	2.4	Historical petrol stations	0	0	0	0	-
<u>71</u>	<u>2.5</u>	<u>Historical garages</u>	0	0	0	5	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
72	3.1	Active or recent landfill	0	0	0	0	-
72	3.2	Historical landfill (BGS records)	0	0	0	0	-
73	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<u>73</u>	<u>3.4</u>	<u>Historical landfill (EA/NRW records)</u>	0	0	2	1	-
<u>74</u>	<u>3.5</u>	<u>Historical waste sites</u>	0	0	0	15	-
<u>76</u>	<u>3.6</u>	<u>Licensed waste sites</u>	0	0	0	5	-
<u>77</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	0	3	15	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>80</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	0	0	11	-	-
81	4.2	Current or recent petrol stations	0	0	0	0	-
81	4.3	Electricity cables	0	0	0	0	-
81	4.4	Gas pipelines	0	0	0	0	-
82	4.5	Sites determined as Contaminated Land	0	0	0	0	-



82	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	2	0	-
82	4.7	Regulated explosive sites	0	0	0	0	-
82	4.8	<u>Hazardous substance storage/usage</u>	0	0	3	1	-
83	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	2	-
84	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
84	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	2	-
84	4.12	Radioactive Substance Authorisations	0	0	0	0	-
85	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	3	-
85	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
85	4.15	Pollutant release to public sewer	0	0	0	0	-
86	4.16	List 1 Dangerous Substances	0	0	0	0	-
86	4.17	<u>List 2 Dangerous Substances</u>	0	0	1	0	-
86	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	11	-
88	4.19	Pollution inventory substances	0	0	0	0	-
88	4.20	Pollution inventory waste transfers	0	0	0	0	-
88	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
89	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
90	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
91	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
92	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
92	5.5	Groundwater vulnerability- local information	None (within 0m)				
93	5.6	<u>Groundwater abstractions</u>	0	0	0	0	27
100	5.7	<u>Surface water abstractions</u>	0	0	0	0	6
102	5.8	Potable abstractions	0	0	0	0	0
102	5.9	Source Protection Zones	0	0	0	0	-
102	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
103	6.1	Water Network (OS MasterMap)	0	0	0	-	-



103	6.2	Surface water features	0	0	0	-	-
104	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
104	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
105	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
106	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
106	7.2	Historical Flood Events	0	0	0	-	-
106	7.3	Flood Defences	0	0	0	-	-
106	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
107	7.5	Flood Storage Areas	0	0	0	-	-
108	7.6	Flood Zone 2	None (within 50m)				
108	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
109	8.1	<u>Surface water flooding</u>	1 in 1000 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
111	9.1	<u>Groundwater flooding</u>	Moderate-High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
112	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
113	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
113	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
113	10.4	Special Protection Areas (SPA)	0	0	0	0	0
113	10.5	National Nature Reserves (NNR)	0	0	0	0	0
114	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
114	10.7	Designated Ancient Woodland	0	0	0	0	0
114	10.8	Biosphere Reserves	0	0	0	0	0
114	10.9	Forest Parks	0	0	0	0	0
115	10.10	Marine Conservation Zones	0	0	0	0	0
115	10.11	<u>Green Belt</u>	0	0	0	0	1
115	10.12	Proposed Ramsar sites	0	0	0	0	0



115	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
116	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
116	10.15	Nitrate Sensitive Areas	0	0	0	0	0
116	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
117	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
118	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
119	11.1	World Heritage Sites	0	0	0	-	-
119	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
119	11.3	National Parks	0	0	0	-	-
119	11.4	Listed Buildings	0	0	0	-	-
120	11.5	Conservation Areas	0	0	0	-	-
120	11.6	Scheduled Ancient Monuments	0	0	0	-	-
120	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
121	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
122	12.2	Open Access Land	0	0	0	-	-
122	12.3	<u>Tree Felling Licences</u>	0	1	0	-	-
122	12.4	Environmental Stewardship Schemes	0	0	0	-	-
122	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
123	13.1	Priority Habitat Inventory	0	0	0	-	-
123	13.2	Habitat Networks	0	0	0	-	-
124	13.3	<u>Open Mosaic Habitat</u>	0	0	3	-	-
124	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
125	14.1	<u>10k Availability</u>	Identified (within 500m)				
126	14.2	<u>Artificial and made ground (10k)</u>	0	0	2	2	-
128	14.3	<u>Superficial geology (10k)</u>	1	0	0	2	-



129	14.4	Landslip (10k)	0	0	0	0	-
130	14.5	<u>Bedrock geology (10k)</u>	1	0	1	1	-
131	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	4	2	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
132	15.1	<u>50k Availability</u>	Identified (within 500m)				
133	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	0	-
134	15.3	Artificial ground permeability (50k)	0	0	-	-	-
135	15.4	<u>Superficial geology (50k)</u>	1	0	0	1	-
136	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
136	15.6	Landslip (50k)	0	0	0	0	-
136	15.7	Landslip permeability (50k)	None (within 50m)				
137	15.8	<u>Bedrock geology (50k)</u>	1	0	1	1	-
138	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
138	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	4	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
139	16.1	<u>BGS Boreholes</u>	0	4	36	-	-
Page	Section	Natural ground subsidence					
142	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
143	17.2	<u>Running sands</u>	Very low (within 50m)				
144	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
145	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
146	17.5	<u>Landslides</u>	Very low (within 50m)				
147	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
149	18.1	Natural cavities	0	0	0	0	-
150	18.2	<u>BritPits</u>	0	0	0	2	-
150	18.3	<u>Surface ground workings</u>	0	1	12	-	-
151	18.4	<u>Underground workings</u>	0	0	0	0	3
151	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<u>152</u>	<u>18.6</u>	<u>Non-coal mining</u>	0	0	0	1	1
152	18.7	Mining cavities	0	0	0	0	0
<u>152</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>153</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
153	18.10	Brine areas	None (within 0m)				
153	18.11	Gypsum areas	None (within 0m)				
153	18.12	Tin mining	None (within 0m)				
154	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>155</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>156</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
<u>156</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	2	4	-	-	-
157	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
158	21.1	Underground railways (London)	0	0	0	-	-
158	21.2	Underground railways (Non-London)	0	0	0	-	-
159	21.3	Railway tunnels	0	0	0	-	-
<u>159</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	0	26	-	-
160	21.5	Royal Mail tunnels	0	0	0	-	-
160	21.6	Historical railways	0	0	0	-	-
<u>160</u>	<u>21.7</u>	<u>Railways</u>	0	0	7	-	-
161	21.8	Crossrail 1	0	0	0	0	-
161	21.9	Crossrail 2	0	0	0	0	-
161	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 22/04/2019

Site Area: 0.03ha



Recent site history - 2015 aerial photograph



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Capture Date: 11/06/2015

Site Area: 0.03ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.03ha



Recent site history - 2000 aerial photograph



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Capture Date: 19/06/2000

Site Area: 0.03ha



OS MasterMap site plan

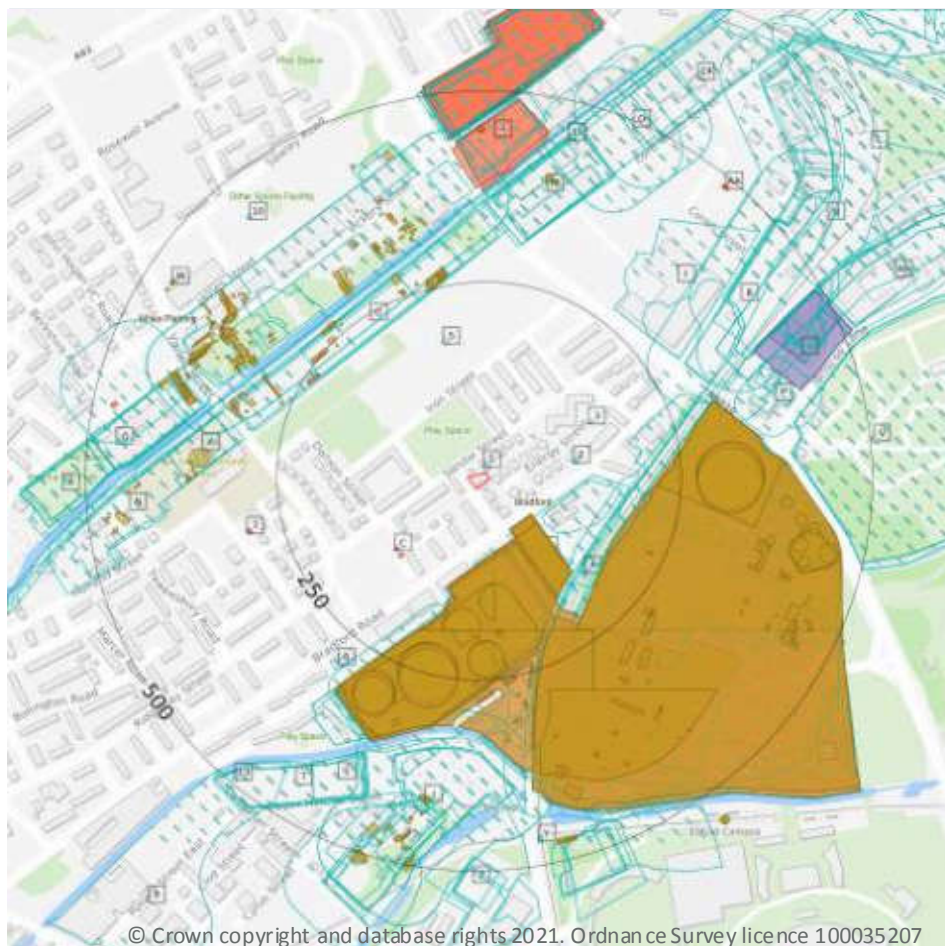


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Site Area: 0.03ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

216

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	7m N	Coal Pits	1851	802168



ID	Location	Land use	Dates present	Group ID
A	71m SE	Unspecified Works	1968	830459
A	74m SE	Brick Works	1891	818774
A	82m S	Unspecified Commercial/Industrial	1851	881841
A	84m SE	Unspecified Pit	1906	840536
A	86m SE	Raising Works	1906	806704
A	86m SE	Gas Stove Works	1921 - 1923	899437
A	86m SE	Unspecified Commercial/Industrial	1933 - 1938	909305
A	86m SE	Unspecified Commercial/Industrial	1891	917862
A	94m SE	Coal Pit	1851	808504
2	111m E	Coal Pits	1851	802167
A	129m S	Unspecified Tank	1891	940326
A	131m S	Gasometer	1923	809781
A	131m S	Unspecified Tank	1906 - 1921	854180
A	134m S	Unspecified Pit	1933 - 1938	988822
B	143m SE	Railway Sidings	1978	974171
3	149m NE	Coal Pit	1851	808503
A	156m S	Unspecified Tank	1891	916313
B	159m SE	Railway Sidings	1923	973770
A	159m S	Gas Works	1985 - 1991	895751
B	161m SE	Railway Sidings	1906 - 1921	881262
B	161m SE	Railway Sidings	1933 - 1938	898707
A	162m S	Gasometer	1923	809783
A	162m S	Unspecified Tank	1906 - 1921	974232
B	162m SE	Gas Works	1891	874852
B	163m SE	Railway Sidings	1956 - 1968	982092
B	166m SE	Railway Sidings	1891	925215
A	166m S	Gas Work	1978	814479
4	171m SE	Coal Pit	1851	808495



ID	Location	Land use	Dates present	Group ID
A	172m S	Unspecified Works	1968	830458
A	172m S	Unspecified Commercial/Industrial	1956	916012
5	176m N	Coal Pit	1851	808502
A	177m S	Unspecified Tank	1891	972082
A	178m S	Unspecified Pit	1933 - 1938	883057
B	179m SE	Unspecified Commercial/Industrial	1968 - 1978	974281
A	181m S	Gasometer	1923	809785
A	181m S	Unspecified Tank	1906 - 1921	850837
B	183m SE	Gas Works	1906 - 1923	932486
E	200m E	Refuse Heap	1891	829115
A	201m S	Unspecified Tank	1891	927485
A	202m S	Gasometer	1923	809782
A	202m S	Unspecified Tank	1906 - 1921	909386
A	202m S	Unspecified Tank	1933 - 1938	927958
B	204m E	Unspecified Commercial/Industrial	1956	951490
A	209m S	Gasometer	1985	979918
A	211m S	Gasometers	1991	983680
A	212m S	Gasometers	1978	916494
A	212m S	Unspecified Tanks	1956 - 1968	922346
B	213m E	Unspecified Commercial/Industrial	1933 - 1938	894722
A	217m S	Unspecified Tank	1906	918029
A	217m S	Unspecified Tank	1933 - 1938	938620
A	217m S	Gasometer	1921 - 1923	941154
G	220m NW	Unspecified Works	1985 - 1991	960938
G	222m NW	Chemical Works	1891 - 1938	886492
F	222m E	Gas Works	1985 - 1991	991680
G	224m NW	Canal Works	1968	827846
A	234m SW	Brick Field	1851	817949



ID	Location	Land use	Dates present	Group ID
G	234m NW	Unspecified Commercial/Industrial	1891 - 1921	845585
G	234m NW	Unspecified Commercial/Industrial	1933 - 1938	911970
G	240m N	Unspecified Mills	1891 - 1938	852486
H	247m NE	Coal Yard	1891	932750
F	264m E	Gasometer	1923	905212
G	265m NW	Disused Canal	1991	849130
A	266m SW	Gasometer	1985	850148
F	267m E	Gasometer	1921	848231
F	267m E	Unspecified Tank	1933 - 1938	965896
G	268m NW	Disused Canal	1985	2367192
B	269m SE	Unspecified Tanks	1921 - 1923	981777
F	271m E	Unspecified Tank	1956 - 1978	914907
I	273m NE	Brick Works	1891	818772
6	275m SW	Brick Kilns	1851	827898
A	277m SW	Unspecified Tank	1933 - 1938	889468
F	279m E	Gasometer	1991	887941
I	279m NE	Unspecified Heaps	1891	831348
F	281m E	Gasometer	1985	920187
G	286m NW	Unspecified Commercial/Industrial	1923	882897
J	289m S	Sanitary Works	1933	888668
J	289m S	Sanitary Works	1921	963542
G	290m NW	Size Works	1851	837943
8	296m NE	Coal Yard	1956 - 1968	918300
K	297m W	Unspecified Works	1968	830461
L	297m NE	Railway Sidings	1891	978292
G	299m NW	Tannery	1851	842300
M	299m N	Chemical Works	1921 - 1923	849220
M	303m N	Unspecified Works	1891	927795



ID	Location	Land use	Dates present	Group ID
M	303m N	Unspecified Works	1933 - 1938	934682
L	307m NE	Railway Sidings	1921 - 1923	875517
N	307m W	Alum Works	1923	795045
G	310m NW	Unspecified Works	1978	830460
M	310m N	Unspecified Mills	1968	808184
G	312m N	Unspecified Tank	1933 - 1938	849674
H	312m NE	Coal Yard	1906	956455
O	313m N	Unspecified Commercial/Industrial	1985	899281
J	326m S	Sanitary Works	1956	876771
G	326m NW	Chemical Works	1851	834549
G	326m NW	Coal Pit	1851	808501
K	332m W	Unspecified Tank	1891	825282
P	334m E	Fire Station	1985 - 1991	981014
D	337m E	Gas Work	1968 - 1978	945176
J	338m S	Unspecified Ground Workings	1968	800627
J	339m S	Sanitary Works	1938	846336
J	339m S	Sanitary Works	1891 - 1906	971025
L	340m NE	Railway Sidings	1991	880705
L	340m NE	Railway Sidings	1968	975528
L	340m NE	Railway Sidings	1956 - 1978	2367782
J	341m S	Sanitary Works	1923	954361
M	347m N	Unspecified Works	1968	898141
D	351m E	Gasometer	1968 - 1978	908225
Q	352m W	Unspecified Mills	1956	966535
P	353m E	Fire Station	1978	988929
H	353m NE	Coal Yard	1921 - 1923	961633
G	353m N	Unspecified Works	1978	830464
D	354m E	Refuse Heap	1906	829125



ID	Location	Land use	Dates present	Group ID
Q	355m W	Unspecified Mills	1923	954804
L	358m NE	Railway Sidings	1938	903657
L	362m NE	Railway Sidings	1933	973087
L	362m NE	Railway Sidings	1906	990471
Q	366m W	Unspecified Commercial/Industrial	1891	967860
Q	366m W	Unspecified Mills	1933 - 1938	850186
Q	366m W	Unspecified Mills	1921	911965
P	368m E	Railway Building	1923	820496
N	373m W	Unspecified Mill	1968	810297
D	373m E	Gasometer	1968 - 1978	944402
S	373m SW	Unspecified Mills	1985 - 1991	922374
S	373m SW	Unspecified Mills	1968 - 1978	912751
T	374m SW	Unspecified Mills	1956	914363
O	375m NE	Timber Yard	1921 - 1923	932938
Q	377m W	Unspecified Warehouse	1968 - 1978	901335
T	381m SW	Unspecified Mills	1938	963506
T	381m SW	Unspecified Mills	1921	966437
T	382m SW	Unspecified Mills	1923	989977
G	382m N	Unspecified Depot	1985 - 1991	964426
G	383m N	Unspecified Depot	1978	882826
R	385m N	Unspecified Works	1978	844931
R	385m N	Unspecified Works	1985 - 1991	897604
Q	387m W	Unspecified Mill	1978	810295
D	389m E	Unspecified Tanks	1923	815395
D	393m E	Oil Tanks	1923	889887
D	394m E	Unspecified Tanks	1956	815394
R	394m N	Steel Works	1851	810022
D	395m E	Gasometer	1968 - 1978	884458



ID	Location	Land use	Dates present	Group ID
V	396m E	Cemetery	1956 - 1978	926290
V	396m E	Cemetery	1985	944161
V	396m E	Cemetery	1991	951637
J	397m S	Unspecified Works	1968	878038
D	398m E	Oil Tanks	1906 - 1921	857954
D	398m E	Unspecified Tank	1933 - 1938	954554
V	398m E	Cemetery	1891 - 1938	882873
D	408m E	Unspecified Pit	1906	840537
J	408m S	Unspecified Works	1978	890255
J	412m S	Unspecified Works	1991	905493
J	412m S	Unspecified Works	1985	987762
D	414m E	Unspecified Tank	1933 - 1938	928492
D	414m E	Oil Tanks	1906 - 1921	931133
D	418m E	Unspecified Tank	1933 - 1938	924790
D	418m E	Oil Tanks	1906 - 1921	932969
J	420m S	Oil Works	1921 - 1923	952223
U	421m NE	Garage	1968	844166
O	421m NE	Forge	1921	810901
U	426m NE	Unspecified Pit	1923	963276
D	430m SE	Unspecified Tanks	1968 - 1978	869704
U	431m NE	Unspecified Pit	1933 - 1938	947050
U	431m NE	Unspecified Pit	1921	988196
9	432m SW	Brick Field	1851	817950
D	433m SE	Unspecified Tank	1933 - 1938	963475
D	433m SE	Unspecified Tanks	1906 - 1923	989875
U	434m NE	Unspecified Pit	1956	871090
D	436m E	Gasometer	1923	809784
D	436m SE	Unspecified Tank	1933 - 1938	903443



ID	Location	Land use	Dates present	Group ID
D	436m SE	Unspecified Tanks	1906 - 1923	959046
D	438m E	Unspecified Tank	1933 - 1938	847909
D	438m E	Oil Tanks	1906 - 1921	899956
R	438m N	Iron Works	1923	910344
R	440m N	Iron Works	1921	921354
R	440m N	Iron Works	1933 - 1938	924546
R	441m N	Iron Works	1906	940446
10	442m NW	Coal Pit	1851	808497
D	442m SE	Unspecified Tanks	1923	938396
R	443m N	Unspecified Works	1991	930965
D	443m SE	Unspecified Tank	1933 - 1938	919997
D	443m SE	Unspecified Tanks	1921	939998
J	444m S	Unspecified Commercial/Industrial	1923	796759
R	445m N	Iron Works	1956 - 1968	856928
R	448m N	Unspecified Works	1985	861098
D	448m SE	Unspecified Pit	1906 - 1923	895806
12	451m SE	Unspecified Ground Workings	1906 - 1923	968041
X	460m W	Woollen Mills	1923	854310
X	463m W	Unspecified Mill	1968	810296
Y	463m S	Railway Building	1923	820486
Y	464m S	Unspecified Factory	1985 - 1991	955182
Y	466m S	Fustian Mills	1851	806840
Y	468m S	Unspecified Mill	1968	968050
X	470m W	Woollen Mills	1933 - 1938	868272
X	470m W	Woollen Mills	1921	926005
Y	471m S	Unspecified Mill	1891	929965
Y	471m S	Unspecified Mill	1933 - 1938	984374
O	472m NE	Iron Works	1906	822794



ID	Location	Land use	Dates present	Group ID
Y	474m S	Unspecified Mill	1923	953219
Z	480m S	Unspecified Works	1978	979217
O	481m NE	Unspecified Works	1978	830465
Z	482m S	Unspecified Works	1985 - 1991	987383
L	487m NE	Railway Sidings	1985	985075
13	489m SW	Chimney	1985 - 1991	959165
J	491m S	Unspecified Tank	1938	937017
J	491m S	Unspecified Tank	1906	940002
AB	492m NE	Brick Works	1906	897437
J	493m S	Unspecified Tank	1906 - 1921	879635
J	493m S	Unspecified Tank	1933 - 1938	882390
Z	493m S	Cotton Works	1891 - 1938	923167
J	496m S	Unspecified Tank	1923	910877
14	496m NE	Brick Works	1906	818770
AB	496m NE	Unspecified Factory	1978	821380
Z	497m S	Unspecified Factory	1968	821378
AB	497m NE	Unspecified Works	1985 - 1991	877844
J	499m S	Unspecified Tank	1906 - 1938	946622
J	499m S	Unspecified Tank	1906 - 1938	973359

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

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

Features are displayed on the Past land use map on **page 13**



ID	Location	Land use	Dates present	Group ID
A	69m SE	Gas Holder Station	1991 - 1995	128430
A	69m SE	Gas Works	1984	140774
A	69m SE	Gas Works	1949	130918
A	82m SE	Gas Works	1948 - 1952	141387
A	83m SE	Gas Works	1968 - 1970	146054
A	85m SE	Gas Works	1893	123389
B	88m SE	Gas Works	1908 - 1922	144191
A	125m S	Gasometers	1893 - 1922	146932
A	127m S	Gasometer	1891	108531
A	158m S	Gasometer	1891	108530
A	185m S	Gas Works	1979	124342
A	186m S	Gas Holder Station	1992	124051
B	186m SE	Gas Works	1948 - 1949	140627
D	186m SE	Gas Works	1968 - 1970	130205
A	186m S	Unspecified Tank	1991	137585
A	186m S	Unspecified Tank	1994 - 1995	143443
A	187m S	Tanks	1989	138546
A	188m S	Tanks	1986 - 1992	136167
A	188m S	Gas Holder Station	1986 - 1989	143674
A	199m S	Gasometer	1891	108529
A	201m S	Unspecified Tank	1931	116055
A	210m S	Unspecified Tank	1948 - 1955	139971
A	210m S	Gas Holder	1986 - 1989	149177
A	210m S	Gasometers	1979	108903
A	210m S	Unspecified Tank	1958	145921
A	211m S	Gasholder	1992	120428
A	217m S	Unspecified Tank	1931	128987
A	217m S	Gasometer	1908 - 1922	144489



ID	Location	Land use	Dates present	Group ID
F	218m E	Gas Works	1984	126853
E	225m SE	Unspecified Tank	1968 - 1970	129294
A	236m S	Tanks	1922 - 1931	142950
G	242m NW	Unspecified Tank	1891	116056
G	246m NW	Tanks	1968 - 1970	125396
G	246m NW	Tanks	1948 - 1995	145173
A	248m S	Tanks	1908	124443
G	248m N	Unspecified Tank	1891	116076
G	249m NW	Unspecified Tank	1891	116058
A	250m S	Unspecified Tank	1948	116054
A	252m S	Overhead Tanks	1948	120512
G	253m N	Tanks	1994 - 1995	147290
G	253m N	Tanks	1968	124562
G	253m N	Tanks	1970	138122
G	253m N	Tanks	1991	136943
G	253m N	Tanks	1948 - 1952	136444
G	255m N	Unspecified Tank	1922	116077
G	255m N	Unspecified Tank	1893	116064
G	256m N	Tanks	1968	128498
G	258m NW	Unspecified Tank	1891	116057
G	258m N	Tanks	1893 - 1908	128674
G	259m N	Unspecified Tank	1948 - 1952	135695
G	260m W	Unspecified Tank	1968 - 1995	130732
G	261m N	Tanks	1891	136637
G	263m NW	Tanks	1984 - 1995	145222
G	265m N	Unspecified Tank	1948 - 1949	130784
G	265m NW	Unspecified Tank	1952 - 1970	140771
G	265m NW	Tanks	1949	124438



ID	Location	Land use	Dates present	Group ID
B	266m SE	Tanks	1922 - 1931	14 14 53
G	266m NW	Tanks	1948 - 1968	14 82 15
G	268m N	Tanks	1984 - 1995	14 68 94
A	270m SW	Unspecified Tank	1958	12 34 72
F	270m E	Gas Holder	1984	12 50 49
A	270m SW	Gasholder	1992	12 04 29
A	270m SW	Gas Holder	1986 - 1989	14 09 88
A	270m SW	Unspecified Tank	1948 - 1955	14 77 01
F	270m E	Gasometer	1949	12 28 35
F	270m E	Unspecified Tank	1931 - 1970	14 29 01
F	271m E	Gasometer	1968	14 16 29
F	271m E	Gas Holder	1995	13 77 33
F	271m E	Gasometer	1922	14 89 52
B	273m SE	Unspecified Tank	1949	11 60 94
G	273m NW	Tanks	1970 - 1984	14 06 79
A	274m S	Tanks	1948	10 68 91
A	276m SW	Unspecified Tank	1931	14 88 93
B	279m SE	Tanks	1948	10 68 94
B	279m S	Gas Works	1891	13 50 95
A	284m S	Tanks	1948	10 68 92
G	284m NW	Unspecified Tank	1931	11 60 63
G	290m NW	Tanks	1948 - 1952	14 25 99
G	290m NW	Tanks	1948 - 1952	12 66 69
G	294m W	Tanks	1949	10 68 89
B	300m SE	Tanks	1948	10 68 95
G	300m W	Unspecified Tank	1893	11 60 49
A	304m S	Unspecified Tank	1948	11 60 53
G	305m W	Unspecified Tank	1891	11 60 50



ID	Location	Land use	Dates present	Group ID
G	306m N	Unspecified Tank	1893 - 1922	139658
G	306m N	Tanks	1931	137824
G	307m W	Unspecified Tank	1908 - 1931	122612
G	307m N	Tanks	1948 - 1952	144147
B	309m SE	Tanks	1931	106897
G	309m NW	Tanks	1968 - 1970	140203
G	312m N	Tanks	1931	142163
G	312m N	Tanks	1948 - 1952	124332
G	312m W	Tanks	1908 - 1931	123297
G	313m W	Tanks	1948 - 1952	130212
G	313m W	Tanks	1949	106888
G	314m NW	Unspecified Tank	1891	116060
G	314m NW	Tanks	1948 - 1952	137067
G	314m NW	Tanks	1948 - 1952	135614
G	316m NW	Unspecified Tank	1949	149300
G	317m NW	Unspecified Tank	1948	126964
G	317m W	Tanks	1891	139837
G	317m N	Unspecified Tank	1949 - 1970	133435
G	317m N	Tanks	1949 - 1970	145402
G	318m N	Tanks	1968 - 1970	138136
A	318m S	Tanks	1986 - 1992	144183
G	318m N	Unspecified Tank	1955	116075
G	319m NW	Unspecified Tank	1891	116061
G	321m NW	Tanks	1949	144071
G	321m N	Unspecified Tank	1955	116074
G	321m N	Tanks	1955	130903
G	321m N	Tanks	1971	129083
G	322m N	Tanks	1970	106874



ID	Location	Land use	Dates present	Group ID
G	324m N	Tanks	1949 - 1955	148273
G	325m N	Tanks	1955 - 1970	129863
G	328m NW	Tanks	1949	147814
G	328m NW	Tanks	1949	144435
B	328m SE	Unspecified Tank	1948	125740
G	328m NW	Tanks	1948 - 1952	145190
G	328m NW	Tanks	1948 - 1952	145352
G	329m NW	Tanks	1948 - 1952	132380
G	329m N	Tanks	1949	106887
A	330m S	Unspecified Tank	1948	116051
A	331m S	Unspecified Tank	1908 - 1922	147259
G	331m NW	Unspecified Tank	1931	116062
G	332m NW	Unspecified Tank	1891	116035
G	333m N	Tanks	1949 - 1970	147836
G	333m N	Tanks	1955	106886
G	333m N	Tanks	1955	147679
G	333m NW	Unspecified Tank	1891	116036
G	333m NW	Tanks	1948 - 1952	137933
G	334m NW	Unspecified Tank	1949	116059
G	334m N	Unspecified Tank	1908	116068
G	334m NW	Unspecified Tank	1891	116037
G	335m NW	Unspecified Tank	1971	133046
B	335m SE	Unspecified Tank	1948 - 1979	122403
G	335m NW	Unspecified Tank	1949 - 1970	123860
B	337m S	Unspecified Tank	1948	116052
K	339m W	Unspecified Tank	1891 - 1893	125043
G	341m NW	Unspecified Tank	1968 - 1970	133800
B	343m SE	Unspecified Tank	1891	147647



ID	Location	Land use	Dates present	Group ID
G	344m NW	Tanks	1948 - 1952	148884
G	344m N	Tanks	1955	138763
G	344m N	Tanks	1949 - 1955	148171
G	346m N	Unspecified Tank	1970	116069
G	346m N	Tanks	1949	122819
G	346m N	Tanks	1955	133408
G	347m NW	Tanks	1948 - 1952	130400
G	349m NW	Unspecified Tank	1893	116034
G	350m NW	Tanks	1949	133842
G	350m NW	Tanks	1948 - 1952	123284
G	352m N	Unspecified Tank	1970	116067
K	354m W	Tanks	1891	106837
G	355m NW	Tanks	1931	126236
D	356m E	Unspecified Tank	1970	116093
D	357m E	Tanks	1968	131109
G	359m N	Tanks	1891	106885
G	359m NW	Unspecified Tank	1891	116033
G	359m NW	Tanks	1891	148395
D	359m E	Tanks	1970	141692
G	360m N	Unspecified Tank	1891	116065
K	360m W	Tanks	1891	137698
G	361m NW	Tanks	1891	106869
G	362m N	Tanks	1891	106873
G	362m NW	Tanks	1891	148519
K	364m W	Tanks	1891	128159
B	365m SE	Unspecified Tank	1955 - 1958	140162
B	365m SE	Unspecified Tank	1979	141260
G	366m NW	Tanks	1931	149145



ID	Location	Land use	Dates present	Group ID
K	366m W	Tanks	1891	106834
G	367m NW	Unspecified Tank	1891	144380
D	367m E	Tanks	1970	123034
D	368m SE	Unspecified Tank	1968 - 1970	125026
G	368m NW	Tanks	1931	135216
G	368m NW	Tanks	1931	137654
G	369m NW	Tanks	1922 - 1952	130441
G	369m NW	Tanks	1948 - 1952	127366
G	369m W	Tanks	1949	137232
G	370m NW	Tanks	1922	106870
D	370m E	Tanks	1970	136413
G	370m W	Tanks	1949 - 1952	138774
G	370m W	Tanks	1952	134151
D	370m SE	Unspecified Tank	1968 - 1970	133963
G	371m NW	Unspecified Tank	1891	116040
G	371m NW	Tanks	1931	139327
B	371m SE	Tanks	1948	106898
G	371m W	Unspecified Tank	1891	116048
G	371m NW	Tanks	1949	128217
G	371m NW	Unspecified Tank	1931	139907
G	372m NW	Unspecified Tank	1891	116039
G	372m NW	Tanks	1891	138933
B	374m SE	Unspecified Tank	1931	116099
G	374m NW	Tanks	1931	145673
G	375m NW	Unspecified Tank	1952	134249
B	375m S	Tanks	1979	106893
G	376m NW	Unspecified Tank	1891	116066
G	376m NW	Unspecified Tank	1891	144341



ID	Location	Land use	Dates present	Group ID
G	377m NW	Unspecified Tank	1948 - 1952	14 13 10
G	377m NW	Tanks	1952	13 11 74
G	377m NW	Tanks	1948	14 11 83
B	377m SE	Unspecified Tank	1948	11 60 95
G	377m NW	Tanks	1949	12 25 97
G	377m NW	Tanks	1952	14 57 31
G	377m NW	Tanks	1952	12 45 74
G	378m W	Tanks	1952	14 70 25
G	378m NW	Tanks	1931	14 57 78
B	379m SE	Tanks	1948	10 68 96
B	379m S	Tanks	1955 - 1979	14 39 74
G	380m W	Unspecified Tank	1893	11 60 38
G	380m W	Tanks	1931	13 23 20
G	380m NW	Tanks	1891	13 69 18
G	381m NW	Tanks	1922	13 94 30
G	381m W	Tanks	1908	13 34 01
G	381m NW	Tanks	1931	10 68 71
G	382m NW	Tanks	1949 - 1952	14 16 90
D	382m E	Unspecified Tank	1968 - 1970	13 04 37
B	384m S	Overhead Tanks	1948	12 05 13
B	385m S	Tanks	1979	10 68 90
G	385m NW	Tanks	1931	10 68 72
G	386m NW	Tanks	1908 - 1952	12 33 17
G	386m NW	Tanks	1949 - 1952	13 07 24
G	386m W	Tanks	1949 - 1952	13 35 45
M	386m N	Tanks	1922	10 68 84
G	387m NW	Tanks	1931	10 68 67
G	387m NW	Tanks	1949	12 73 82



ID	Location	Land use	Dates present	Group ID
G	387m W	Tanks	1949 - 1965	130055
G	387m NW	Tanks	1948 - 1952	128019
M	387m N	Unspecified Tank	1893	148061
G	388m NW	Tanks	1931	142127
M	390m N	Unspecified Tank	1971	141749
G	391m W	Tanks	1949 - 1965	131420
B	391m SE	Unspecified Tank	1891	116096
G	392m NW	Tanks	1952	130043
G	394m W	Tanks	1891 - 1931	141301
G	397m W	Tanks	1891	144312
G	397m NW	Tanks	1948 - 1952	145083
G	397m NW	Tanks	1949	106866
D	398m E	Tanks	1949	106929
D	399m E	Tanks	1908 - 1931	136314
D	401m E	Unspecified Tank	1949	122692
D	401m E	Oil Tanks	1922 - 1931	139394
D	402m E	Oil Tanks	1908	132831
B	402m SE	Unspecified Tank	1891	116115
G	402m W	Unspecified Tank	1891	116047
G	403m W	Tanks	1949 - 1952	139282
D	404m E	Unspecified Tank	1968 - 1970	128581
B	404m S	Tanks	1931 - 1948	132624
J	404m S	Unspecified Tank	1891	116117
D	405m E	Unspecified Tank	1968 - 1970	139876
J	407m S	Unspecified Tank	1891	116116
B	408m SE	Unspecified Tank	1948	116113
D	410m SE	Tanks	1922 - 1931	135092
J	410m S	Unspecified Tank	1891	116114



ID	Location	Land use	Dates present	Group ID
D	411m E	Tanks	1949	106928
D	415m SE	Unspecified Tank	1931	116100
B	417m SE	Unspecified Tank	1891	116097
B	417m SE	Unspecified Tank	1891	116098
D	418m E	Unspecified Tank	1949	116092
D	422m E	Unspecified Tank	1949	116090
D	426m SE	Tanks	1949	106927
J	427m S	Unspecified Tank	1948 - 1979	140187
N	428m W	Tanks	1891	106835
G	429m N	Unspecified Tank	1990 - 1995	146806
J	431m S	Unspecified Tank	1931	116118
D	432m SE	Tanks	1948 - 1958	130892
G	432m N	Unspecified Tank	1908 - 1922	149215
D	436m SE	Tanks	1908 - 1931	147035
D	436m SE	Unspecified Tank	1968	116101
J	437m S	Unspecified Tank	1948 - 1955	125105
J	437m S	Unspecified Tank	1979	122787
D	439m SE	Tanks	1949	106926
D	441m E	Unspecified Tank	1949 - 1970	132990
N	442m W	Tanks	1891	106833
D	442m E	Unspecified Tank	1908 - 1922	144275
J	444m S	Unspecified Tank	1931	116119
D	444m E	Unspecified Tank	1931	116091
R	445m N	Unspecified Tank	1949	116071
D	445m SE	Unspecified Tank	1955	116102
D	445m SE	Tanks	1948	137971
N	445m W	Tanks	1908 - 1922	136878
D	448m SE	Tanks	1922 - 1931	148520



ID	Location	Land use	Dates present	Group ID
11	449m N	Unspecified Tank	1971	116072
D	452m SE	Tanks	1948	132522
J	452m S	Unspecified Tank	1948 - 1979	144042
D	452m SE	Tanks	1949	106925
J	453m S	Unspecified Tank	1986 - 1989	127783
J	457m S	Tanks	1948	106809
J	457m S	Tanks	1955	127968
J	457m S	Tanks	1948	128195
J	458m S	Tanks	1979	129820
W	459m NW	Unspecified Tank	1952	133760
J	459m S	Tanks	1931	127904
J	459m S	Unspecified Tank	1908	116126
N	460m W	Tanks	1891	133988
D	460m SE	Tanks	1949	106930
J	462m S	Tanks	1979	139173
W	462m NW	Unspecified Tank	1964 - 1965	149305
J	462m S	Tanks	1948 - 1955	134210
N	463m W	Unspecified Tank	1908 - 1922	140658
J	463m S	Tanks	1979 - 1986	140447
J	465m S	Tanks	1948 - 1989	125836
N	468m W	Unspecified Tank	1893	116000
N	470m W	Tanks	1891	106836
Y	470m S	Tanks	1948 - 1955	136522
N	471m W	Tanks	1891	106832
Y	473m S	Tanks	1931	140274
J	474m S	Tanks	1948 - 1979	134652
J	477m S	Unspecified Tank	1979	142816
J	477m S	Unspecified Tank	1955	141710



ID	Location	Land use	Dates present	Group ID
J	477m S	Unspecified Tank	1948	147680
J	478m S	Unspecified Tank	1891	116124
J	478m S	Unspecified Tank	1908	116125
J	479m S	Unspecified Tank	1908	116120
J	482m S	Unspecified Tank	1931	116121
J	485m S	Tanks	1908 - 1922	145285
J	492m S	Unspecified Tank	1891	116123
J	494m S	Unspecified Tank	1908 - 1931	127771
J	496m S	Tanks	1908	143683
J	497m S	Tanks	1922 - 1931	134829
J	499m S	Tanks	1931	106806

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

45

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 13**

ID	Location	Land use	Dates present	Group ID
A	69m SE	Gas Works	1984	71264
A	69m SE	Gas Holder Station	1991 - 1995	83257
A	69m SE	Gas Works	1949	66752
A	82m SE	Gas Works	1948 - 1970	74752
A	85m SE	Gas Works	1893	80210
B	88m SE	Gas Works	1908 - 1922	77534
A	90m S	Corporation Gas Works	1891	79203



ID	Location	Land use	Dates present	Group ID
A	125m S	Gasometers	1893 - 1922	78993
A	127m S	Gasometer	1891	59724
C	127m SW	Electricity Substation	1991 - 1995	74979
C	128m SW	Electricity Substation	1968 - 1984	74990
A	158m S	Gasometer	1891	59723
A	185m S	Gas Works	1979	64728
A	186m S	Gas Holder Station	1992	79718
B	186m SE	Gas Works	1948 - 1970	85321
A	188m S	Gas Holder Station	1986 - 1989	65294
A	199m S	Gasometer	1891	59722
A	210m S	Gas Holder	1986 - 1989	77108
A	210m S	Gasometers	1979	63338
A	211m S	Gasholder	1992	63416
A	217m S	Gasometer	1908 - 1922	70420
F	218m E	Gas Works	1984	71747
G	234m NW	Electricity Substation	1948 - 1995	78253
G	236m NW	Electricity Substation	1984 - 1991	69820
F	270m E	Gas Holder	1984	68164
A	270m SW	Gasholder	1992	63417
A	270m SW	Gas Holder	1986 - 1989	74103
F	270m E	Gasometer	1922 - 1949	76542
F	271m E	Gasometer	1968	75789
F	271m E	Gas Holder	1995	72614
B	279m S	Gas Works	1891	73418
7	291m W	Electricity Substation	1968 - 1995	82234
R	370m N	Gas Plant Iron Works	1949 - 1955	66060
R	373m N	Gas Plant Works	1931 - 1970	79660
G	377m N	Electricity Substation	1990 - 1995	68028



ID	Location	Land use	Dates present	Group ID
G	389m W	Gas Governor	1981	63605
R	438m N	Gas Plant Iron Works	1931	85136
R	443m N	Gas Plant Works	1970	63814
R	443m N	Gas Plant Iron Works	1949	79157
R	444m N	Gas Plant Iron Works	1955	77109
R	446m N	Electricity Substation	1955 - 1991	65838
R	446m N	Electricity Substation	1970 - 1995	73742
Q	468m W	Electricity Substation	1952	68454
AA	485m NE	Electricity Substation	1990	70505
AA	486m NE	Electricity Substation	1979 - 1995	67258

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

3

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
U	383m NE	Garage	1984	21414



ID	Location	Land use	Dates present	Group ID
U	383m NE	Garage	1995	25834
U	410m NE	Garage	1968 - 1970	27654

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

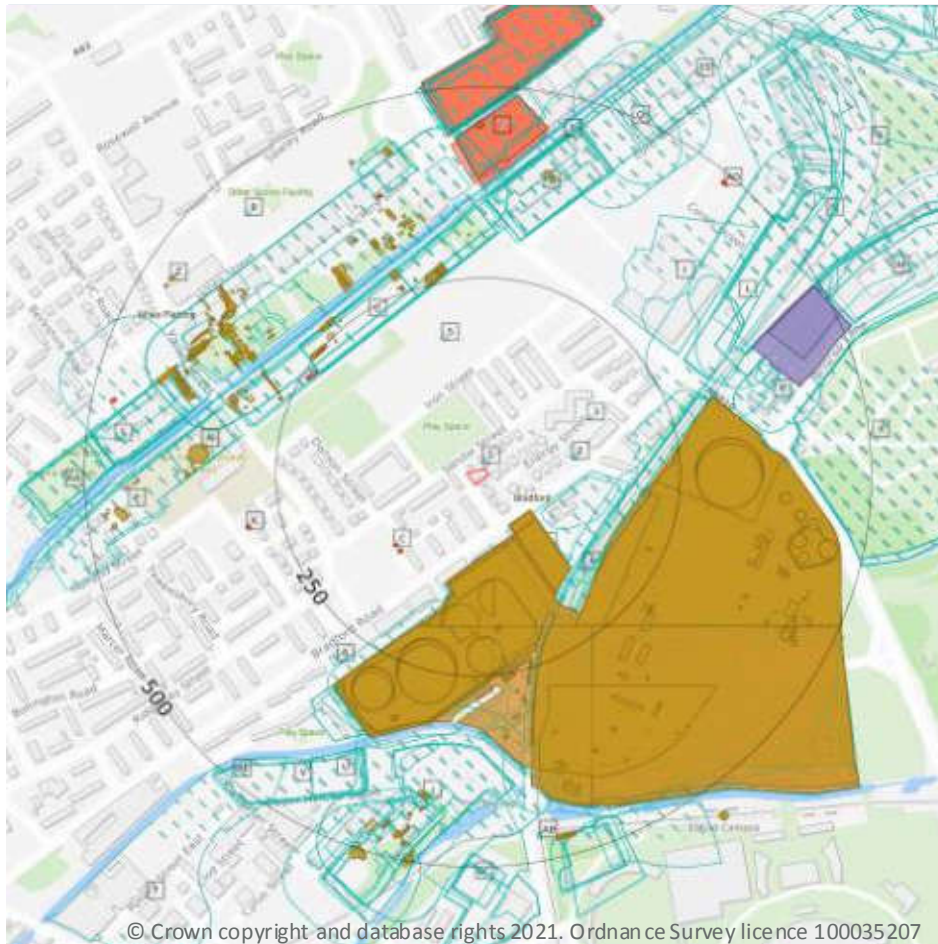
0

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

324

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 37**

ID	Location	Land Use	Date	Group ID
1	7m N	Coal Pits	1851	802168
A	71m SE	Unspecified Works	1968	830459
A	74m SE	Brick Works	1891	818774



ID	Location	Land Use	Date	Group ID
A	82m S	Unspecified Commercial/Industrial	1851	881841
A	84m SE	Unspecified Pit	1906	840536
A	86m SE	Gas Stove Works	1921	899437
A	86m SE	Raising Works	1906	806704
A	86m SE	Unspecified Commercial/Industrial	1891	917862
A	86m SE	Unspecified Commercial/Industrial	1938	909305
A	86m SE	Unspecified Commercial/Industrial	1933	909305
A	88m S	Gas Stove Works	1923	899437
A	94m SE	Coal Pit	1851	808504
2	111m E	Coal Pits	1851	802167
A	129m S	Unspecified Tank	1891	940326
A	131m S	Unspecified Tank	1921	854180
A	131m S	Unspecified Tank	1906	854180
A	131m S	Gasometer	1923	809781
A	134m S	Unspecified Pit	1938	988822
A	134m S	Unspecified Pit	1933	988822
B	143m SE	Railway Sidings	1978	974171
3	149m NE	Coal Pit	1851	808503
A	156m S	Unspecified Tank	1891	916313
B	159m SE	Railway Sidings	1923	973770
A	159m S	Gas Works	1985	895751
B	161m SE	Railway Sidings	1921	881262
B	161m SE	Railway Sidings	1906	881262
B	161m SE	Railway Sidings	1938	898707
B	161m SE	Railway Sidings	1933	898707
A	162m S	Unspecified Tank	1921	974232
A	162m S	Unspecified Tank	1906	974232
A	162m S	Gasometer	1923	809783



ID	Location	Land Use	Date	Group ID
B	162m SE	Gas Works	1891	874852
B	163m SE	Railway Sidings	1968	982092
B	166m SE	Railway Sidings	1891	925215
A	166m S	Gas Work	1978	814479
4	171m SE	Coal Pit	1851	808495
A	172m S	Unspecified Commercial/Industrial	1956	916012
A	172m S	Unspecified Works	1968	830458
5	176m N	Coal Pit	1851	808502
A	177m S	Unspecified Tank	1891	972082
A	178m S	Unspecified Pit	1938	883057
A	178m S	Unspecified Pit	1933	883057
B	179m SE	Unspecified Commercial/Industrial	1978	974281
B	180m SE	Railway Sidings	1956	982092
A	181m S	Unspecified Tank	1921	850837
A	181m S	Unspecified Tank	1906	850837
A	181m S	Gasometer	1923	809785
B	183m SE	Gas Works	1923	932486
A	184m S	Gas Works	1991	895751
E	200m E	Refuse Heap	1891	829115
A	201m S	Unspecified Tank	1891	927485
A	202m S	Unspecified Tank	1921	909386
A	202m S	Unspecified Tank	1906	909386
A	202m S	Unspecified Tank	1938	927958
A	202m S	Unspecified Tank	1933	927958
A	202m S	Gasometer	1923	809782
B	204m E	Unspecified Commercial/Industrial	1956	951490
A	209m S	Gasometer	1985	979918
A	211m S	Gasometers	1991	983680



ID	Location	Land Use	Date	Group ID
A	212m S	Unspecified Tanks	1956	922346
A	212m S	Gasometers	1978	916494
A	212m S	Unspecified Tanks	1968	922346
B	213m E	Gas Works	1921	932486
B	213m E	Gas Works	1906	932486
B	213m E	Unspecified Commercial/Industrial	1938	894722
B	213m E	Unspecified Commercial/Industrial	1933	894722
B	214m SE	Unspecified Commercial/Industrial	1968	974281
A	217m S	Gasometer	1921	941154
A	217m S	Unspecified Tank	1906	918029
A	217m S	Unspecified Tank	1938	938620
A	217m S	Unspecified Tank	1933	938620
A	217m S	Gasometer	1923	941154
G	220m NW	Unspecified Works	1985	960938
G	220m NW	Unspecified Works	1991	960938
G	222m NW	Chemical Works	1921	886492
G	222m NW	Chemical Works	1906	886492
G	222m NW	Chemical Works	1891	886492
G	222m NW	Chemical Works	1938	886492
G	222m NW	Chemical Works	1933	886492
G	222m NW	Chemical Works	1923	886492
F	222m E	Gas Works	1985	991680
G	224m NW	Canal Works	1968	827846
F	224m E	Gas Works	1991	991680
A	234m SW	Brick Field	1851	817949
G	234m NW	Unspecified Commercial/Industrial	1938	911970
G	234m NW	Unspecified Commercial/Industrial	1933	911970
G	234m NW	Unspecified Commercial/Industrial	1921	845585



ID	Location	Land Use	Date	Group ID
G	234m NW	Unspecified Commercial/Industrial	1906	845585
G	234m NW	Unspecified Commercial/Industrial	1891	845585
G	240m N	Unspecified Mills	1921	852486
G	240m N	Unspecified Mills	1906	852486
G	240m N	Unspecified Mills	1891	852486
G	240m N	Unspecified Mills	1938	852486
G	240m N	Unspecified Mills	1933	852486
G	240m N	Unspecified Mills	1923	852486
H	247m NE	Coal Yard	1891	932750
F	264m E	Gasometer	1923	905212
G	265m NW	Disused Canal	1991	849130
A	266m SW	Gasometer	1985	850148
F	267m E	Gasometer	1921	848231
F	267m E	Unspecified Tank	1938	965896
F	267m E	Unspecified Tank	1933	965896
G	268m NW	Disused Canal	1985	2367192
B	269m SE	Unspecified Tanks	1921	981777
B	270m SE	Unspecified Tanks	1923	981777
F	271m E	Unspecified Tank	1956	914907
F	271m E	Unspecified Tank	1978	914907
F	271m E	Unspecified Tank	1968	914907
I	273m NE	Brick Works	1891	818772
6	275m SW	Brick Kilns	1851	827898
A	277m SW	Unspecified Tank	1938	889468
A	277m SW	Unspecified Tank	1933	889468
F	279m E	Gasometer	1991	887941
I	279m NE	Unspecified Heaps	1891	831348
F	281m E	Gasometer	1985	920187



ID	Location	Land Use	Date	Group ID
G	286m NW	Unspecified Commercial/Industrial	1923	882897
J	289m S	Sanitary Works	1933	888668
J	289m S	Sanitary Works	1921	963542
G	290m NW	Size Works	1851	837943
L	296m NE	Coal Yard	1956	918300
L	296m NE	Coal Yard	1968	918300
M	297m W	Unspecified Works	1968	830461
N	297m NE	Railway Sidings	1891	978292
G	299m NW	Tannery	1851	842300
O	299m N	Chemical Works	1923	849220
O	303m N	Unspecified Works	1891	927795
O	303m N	Unspecified Works	1938	934682
O	303m N	Unspecified Works	1933	934682
O	303m N	Chemical Works	1921	849220
N	307m NE	Railway Sidings	1923	875517
P	307m W	Alum Works	1923	795045
G	310m NW	Unspecified Works	1978	830460
O	310m N	Unspecified Mills	1968	808184
G	312m N	Unspecified Tank	1938	849674
H	312m NE	Coal Yard	1906	956455
G	313m N	Unspecified Tank	1933	849674
Q	313m N	Unspecified Commercial/Industrial	1985	899281
J	326m S	Sanitary Works	1956	876771
G	326m NW	Chemical Works	1851	834549
G	326m NW	Coal Pit	1851	808501
M	332m W	Unspecified Tank	1891	825282
R	334m E	Fire Station	1985	981014
R	334m E	Fire Station	1991	981014



ID	Location	Land Use	Date	Group ID
D	337m E	Gas Work	1978	945176
D	337m E	Gas Work	1968	945176
J	338m S	Unspecified Ground Workings	1968	800627
J	339m S	Sanitary Works	1906	971025
J	339m S	Sanitary Works	1891	971025
J	339m S	Sanitary Works	1938	846336
N	340m NE	Railway Sidings	1956	2367782
N	340m NE	Railway Sidings	1991	880705
N	340m NE	Railway Sidings	1968	975528
J	341m S	Sanitary Works	1923	954361
O	347m N	Unspecified Works	1968	898141
D	351m E	Gasometer	1978	908225
D	351m E	Gasometer	1968	908225
S	352m W	Unspecified Mills	1956	966535
R	353m E	Fire Station	1978	988929
H	353m NE	Coal Yard	1923	961633
G	353m N	Unspecified Works	1978	830464
D	354m E	Refuse Heap	1906	829125
S	355m W	Unspecified Mills	1923	954804
N	358m NE	Railway Sidings	1938	903657
H	362m NE	Coal Yard	1921	961633
N	362m NE	Railway Sidings	1921	875517
N	362m NE	Railway Sidings	1906	990471
N	362m NE	Railway Sidings	1933	973087
S	366m W	Unspecified Mills	1921	911965
S	366m W	Unspecified Commercial/Industrial	1891	967860
S	366m W	Unspecified Mills	1938	850186
S	366m W	Unspecified Mills	1933	850186



ID	Location	Land Use	Date	Group ID
R	368m E	Railway Building	1923	820496
P	373m W	Unspecified Mill	1968	810297
D	373m E	Gasometer	1978	944402
D	373m E	Gasometer	1968	944402
U	373m SW	Unspecified Mills	1985	922374
U	373m SW	Unspecified Mills	1978	912751
U	373m SW	Unspecified Mills	1991	922374
U	373m SW	Unspecified Mills	1968	912751
V	374m SW	Unspecified Mills	1956	914363
Q	375m NE	Timber Yard	1921	932938
S	377m W	Unspecified Ware house	1968	901335
S	377m W	Unspecified Ware house	1978	901335
V	381m SW	Unspecified Mills	1921	966437
V	381m SW	Unspecified Mills	1938	963506
V	382m SW	Unspecified Mills	1923	989977
G	382m N	Unspecified Depot	1985	964426
G	382m N	Unspecified Depot	1991	964426
G	383m N	Unspecified Depot	1978	882826
T	385m N	Unspecified Works	1985	897604
T	385m N	Unspecified Works	1978	844931
T	385m N	Unspecified Works	1991	897604
S	387m W	Unspecified Mill	1978	810295
D	389m E	Unspecified Tanks	1923	815395
D	393m E	Oil Tanks	1923	889887
D	394m E	Unspecified Tanks	1956	815394
T	394m N	Steel Works	1851	810022
D	395m E	Gasometer	1968	884458
X	396m E	Cemetery	1956	926290



ID	Location	Land Use	Date	Group ID
X	396m E	Cemetery	1985	944161
X	396m E	Cemetery	1978	926290
X	396m E	Cemetery	1991	951637
X	396m E	Cemetery	1968	926290
J	397m S	Unspecified Works	1968	878038
D	398m E	Oil Tanks	1921	857954
D	398m E	Oil Tanks	1906	857954
D	398m E	Unspecified Tank	1938	954554
D	398m E	Unspecified Tank	1933	954554
X	398m E	Cemetery	1923	882873
X	398m E	Cemetery	1938	882873
X	398m E	Cemetery	1933	882873
X	398m E	Cemetery	1921	882873
X	398m E	Cemetery	1906	882873
X	398m E	Cemetery	1891	882873
D	405m E	Gasometer	1978	884458
D	408m E	Unspecified Pit	1906	840537
J	408m S	Unspecified Works	1978	890255
J	412m S	Unspecified Works	1985	987762
J	412m S	Unspecified Works	1991	905493
D	414m E	Oil Tanks	1921	931133
D	414m E	Oil Tanks	1906	931133
D	414m E	Unspecified Tank	1938	928492
D	414m E	Unspecified Tank	1933	928492
D	418m E	Oil Tanks	1921	932969
D	418m E	Oil Tanks	1906	932969
D	418m E	Unspecified Tank	1938	924790
D	418m E	Unspecified Tank	1933	924790



ID	Location	Land Use	Date	Group ID
J	420m S	Oil Works	1923	952223
W	421m NE	Garage	1968	844166
Q	421m NE	Forge	1921	810901
Q	421m NE	Timber Yard	1923	932938
W	426m NE	Unspecified Pit	1923	963276
D	430m SE	Unspecified Tanks	1978	869704
W	431m NE	Unspecified Pit	1938	947050
W	431m NE	Unspecified Pit	1933	947050
W	431m NE	Unspecified Pit	1921	988196
7	432m SW	Brick Field	1851	817950
D	432m SE	Unspecified Tanks	1968	869704
D	433m SE	Unspecified Tanks	1921	989875
D	433m SE	Unspecified Tanks	1906	989875
D	433m SE	Unspecified Tank	1938	963475
D	433m SE	Unspecified Tank	1933	963475
D	433m SE	Unspecified Tanks	1923	989875
W	434m NE	Unspecified Pit	1956	871090
D	436m E	Gasometer	1923	809784
D	436m SE	Unspecified Tanks	1921	959046
D	436m SE	Unspecified Tanks	1906	959046
D	436m SE	Unspecified Tank	1938	903443
D	436m SE	Unspecified Tank	1933	903443
D	436m SE	Unspecified Tanks	1923	959046
D	438m E	Oil Tanks	1921	899956
D	438m E	Oil Tanks	1906	899956
D	438m E	Unspecified Tank	1938	847909
D	438m E	Unspecified Tank	1933	847909
T	438m N	Iron Works	1923	910344



ID	Location	Land Use	Date	Group ID
T	440m N	Iron Works	1938	924546
T	440m N	Iron Works	1933	924546
T	440m N	Iron Works	1921	921354
T	441m N	Iron Works	1906	940446
8	442m NW	Coal Pit	1851	808497
D	442m SE	Unspecified Tanks	1923	938396
T	443m N	Unspecified Works	1991	930965
D	443m SE	Unspecified Tanks	1921	939998
D	443m SE	Unspecified Tank	1938	919997
D	443m SE	Unspecified Tank	1933	919997
J	444m S	Oil Works	1921	952223
J	444m S	Unspecified Commercial/Industrial	1923	796759
T	445m N	Iron Works	1956	856928
T	445m N	Iron Works	1968	856928
T	448m N	Unspecified Works	1985	861098
D	448m SE	Unspecified Pit	1921	895806
D	448m SE	Unspecified Pit	1906	895806
D	448m SE	Unspecified Pit	1923	895806
Y	451m SE	Unspecified Ground Workings	1921	968041
Y	451m SE	Unspecified Ground Workings	1906	968041
Y	451m SE	Unspecified Ground Workings	1923	968041
AA	460m W	Woollen Mills	1923	854310
AA	463m W	Unspecified Mill	1968	810296
AB	463m S	Railway Building	1923	820486
AB	464m S	Unspecified Factory	1985	955182
AB	464m S	Unspecified Factory	1991	955182
AB	466m S	Fustian Mills	1851	806840
AB	468m S	Unspecified Mill	1968	968050



ID	Location	Land Use	Date	Group ID
AA	470m W	Woollen Mills	1921	926005
AA	470m W	Unspecified Commercial/Industrial	1891	967860
AA	470m W	Woollen Mills	1938	868272
AA	470m W	Woollen Mills	1933	868272
AB	471m S	Unspecified Mill	1891	929965
AB	471m S	Unspecified Mill	1938	984374
AB	471m S	Unspecified Mill	1933	984374
Q	472m NE	Iron Works	1906	822794
AB	474m S	Unspecified Mill	1923	953219
AC	480m S	Unspecified Works	1978	979217
Q	481m NE	Unspecified Works	1978	830465
AC	482m S	Unspecified Works	1985	987383
AC	482m S	Unspecified Works	1991	987383
N	487m NE	Railway Sidings	1985	985075
N	488m NE	Railway Sidings	1978	2367782
AE	489m SW	Chimney	1985	959165
AE	489m SW	Chimney	1991	959165
J	491m S	Unspecified Tank	1906	940002
J	491m S	Unspecified Tank	1938	937017
AF	492m NE	Brick Works	1906	897437
J	493m S	Unspecified Tank	1921	879635
J	493m S	Unspecified Tank	1906	879635
J	493m S	Unspecified Tank	1938	882390
J	493m S	Unspecified Tank	1933	882390
AC	493m S	Cotton Works	1921	923167
AC	493m S	Cotton Works	1906	923167
AC	493m S	Cotton Works	1891	923167
AC	493m S	Cotton Works	1938	923167



ID	Location	Land Use	Date	Group ID
AC	493m S	Cotton Works	1933	923167
AC	493m S	Cotton Works	1923	923167
J	496m S	Unspecified Tank	1923	910877
10	496m NE	Brick Works	1906	818770
AF	496m NE	Unspecified Factory	1978	821380
AC	497m S	Unspecified Factory	1968	821378
AF	497m NE	Unspecified Works	1985	877844
AF	497m NE	Unspecified Works	1991	877844
J	499m S	Unspecified Tank	1923	946622
J	499m S	Unspecified Tank	1921	973359
J	499m S	Unspecified Tank	1906	973359
J	499m S	Unspecified Tank	1938	973359
J	499m S	Unspecified Tank	1933	973359

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

485

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 37**

ID	Location	Land Use	Date	Group ID
A	69m SE	Gas Works	1984	140774
A	69m SE	Gas Holder Station	1991	128430
A	69m SE	Gas Works	1949	130918
A	82m SE	Gas Works	1952	141387
A	82m SE	Gas Works	1948	141387
A	83m SE	Gas Works	1968	146054
A	83m SE	Gas Works	1970	146054



ID	Location	Land Use	Date	Group ID
A	84m S	Gas Holder Station	1995	12 84 30
A	84m S	Gas Holder Station	1994	12 84 30
A	85m SE	Gas Works	1893	12 33 89
B	88m SE	Gas Works	1922	14 41 91
B	88m SE	Gas Works	1908	14 41 91
A	125m S	Gasometers	1893	14 69 32
A	125m S	Gasometers	1908	14 69 32
A	125m S	Gasometers	1922	14 69 32
A	127m S	Gasometer	1891	10 85 31
A	158m S	Gasometer	1891	10 85 30
A	185m S	Gas Works	1979	12 43 42
A	186m S	Gas Holder Station	1992	12 40 51
D	186m SE	Gas Works	1949	14 06 27
D	186m SE	Gas Works	1970	13 02 05
A	186m S	Unspecified Tank	1991	13 75 85
A	186m S	Unspecified Tank	1995	14 34 43
A	186m S	Unspecified Tank	1994	14 34 43
A	187m S	Tanks	1989	13 85 46
A	188m S	Tanks	1986	13 61 67
A	188m S	Tanks	1992	13 61 67
A	188m S	Gas Holder Station	1986	14 36 74
A	188m S	Gas Holder Station	1989	14 36 74
A	199m S	Gasometer	1891	10 85 29
A	201m S	Unspecified Tank	1931	11 60 55
B	208m SE	Gas Works	1948	14 06 27
A	210m S	Unspecified Tank	1948	13 99 71
A	210m S	Gas Holder	1989	14 91 77
A	210m S	Unspecified Tank	1955	13 99 71



ID	Location	Land Use	Date	Group ID
A	210m S	Gasometers	1979	108903
D	210m E	Gas Works	1968	130205
A	210m S	Unspecified Tank	1958	145921
A	210m S	Gas Holder	1986	149177
A	211m S	Gasholder	1992	120428
A	217m S	Gasometer	1908	144489
A	217m S	Gasometer	1922	144489
A	217m S	Unspecified Tank	1931	128987
F	218m E	Gas Works	1984	126853
E	225m SE	Unspecified Tank	1968	129294
E	225m SE	Unspecified Tank	1970	129294
A	236m S	Tanks	1922	142950
A	236m S	Tanks	1931	142950
B	239m SE	Gas Works	1948	140627
G	242m NW	Unspecified Tank	1891	116056
G	246m NW	Tanks	1968	125396
G	246m NW	Tanks	1949	145173
G	246m NW	Tanks	1970	125396
G	247m NW	Tanks	1952	145173
G	247m NW	Tanks	1948	145173
G	247m NW	Tanks	1995	145173
G	247m NW	Tanks	1994	145173
G	248m NW	Tanks	1984	145173
G	248m NW	Tanks	1991	145173
A	248m S	Tanks	1908	124443
G	248m N	Unspecified Tank	1891	116076
G	249m NW	Unspecified Tank	1891	116058
A	250m S	Unspecified Tank	1948	116054



ID	Location	Land Use	Date	Group ID
A	252m S	Overhead Tanks	1948	12 05 12
G	253m N	Tanks	1995	14 72 90
G	253m N	Tanks	1994	14 72 90
G	253m N	Tanks	1968	12 45 62
G	253m N	Tanks	1970	13 81 22
G	253m N	Tanks	1991	13 69 43
G	253m N	Tanks	1952	13 64 44
G	253m N	Tanks	1948	13 64 44
G	255m N	Unspecified Tank	1922	11 60 77
G	255m N	Unspecified Tank	1893	11 60 64
G	256m N	Tanks	1968	12 84 98
G	258m NW	Unspecified Tank	1891	11 60 57
G	258m N	Tanks	1893	12 86 74
G	258m N	Tanks	1908	12 86 74
G	259m N	Unspecified Tank	1949	13 56 95
G	259m N	Unspecified Tank	1952	13 56 95
G	259m N	Unspecified Tank	1948	13 56 95
G	260m W	Unspecified Tank	1970	13 07 32
G	260m W	Unspecified Tank	1995	13 07 32
G	260m W	Unspecified Tank	1994	13 07 32
G	260m W	Unspecified Tank	1968	13 07 32
G	261m W	Unspecified Tank	1984	13 07 32
G	261m W	Unspecified Tank	1991	13 07 32
G	261m N	Tanks	1891	13 66 37
G	263m NW	Tanks	1984	14 52 22
G	263m NW	Tanks	1991	14 52 22
G	264m NW	Tanks	1995	14 52 22
G	264m NW	Tanks	1994	14 52 22



ID	Location	Land Use	Date	Group ID
G	265m N	Unspecified Tank	1949	130784
G	265m NW	Unspecified Tank	1968	140771
G	265m NW	Unspecified Tank	1952	140771
G	265m NW	Unspecified Tank	1970	140771
G	265m N	Unspecified Tank	1948	130784
G	265m NW	Tanks	1949	124438
B	266m SE	Tanks	1931	141453
G	266m NW	Tanks	1968	148215
G	266m NW	Tanks	1952	148215
G	266m NW	Tanks	1948	148215
G	268m N	Tanks	1984	146894
G	268m N	Tanks	1991	146894
G	269m N	Tanks	1995	146894
G	269m N	Tanks	1994	146894
A	270m SW	Unspecified Tank	1958	123472
F	270m E	Gas Holder	1984	125049
A	270m SW	Gasholder	1992	120429
A	270m SW	Unspecified Tank	1948	147701
A	270m SW	Gas Holder	1989	140988
A	270m SW	Unspecified Tank	1955	147701
A	270m SW	Gas Holder	1986	140988
F	270m E	Gasometer	1949	122835
F	270m E	Unspecified Tank	1970	142901
F	271m E	Gasometer	1968	141629
F	271m E	Gas Holder	1995	137733
F	271m E	Gas Holder	1995	137733
F	271m E	Gasometer	1922	148952
F	271m E	Unspecified Tank	1931	142901



ID	Location	Land Use	Date	Group ID
B	273m SE	Unspecified Tank	1949	116094
G	273m NW	Tanks	1970	140679
A	274m S	Tanks	1948	106891
G	274m NW	Tanks	1984	140679
A	276m SW	Unspecified Tank	1931	148893
B	276m SE	Tanks	1922	141453
B	279m SE	Tanks	1948	106894
B	279m S	Gas Works	1891	135095
A	284m S	Tanks	1948	106892
G	284m NW	Unspecified Tank	1931	116063
G	290m NW	Tanks	1949	142599
G	290m NW	Tanks	1952	142599
G	290m NW	Tanks	1948	142599
G	290m NW	Tanks	1952	126669
G	290m NW	Tanks	1948	126669
G	294m W	Tanks	1949	106889
B	300m SE	Tanks	1948	106895
G	300m W	Unspecified Tank	1893	116049
A	304m S	Unspecified Tank	1948	116053
G	305m W	Unspecified Tank	1891	116050
G	306m N	Unspecified Tank	1893	139658
G	306m N	Unspecified Tank	1922	139658
G	306m N	Tanks	1931	137824
G	307m W	Unspecified Tank	1908	122612
G	307m W	Unspecified Tank	1922	122612
G	307m W	Unspecified Tank	1931	122612
G	307m N	Tanks	1949	144147
G	308m N	Tanks	1952	144147



ID	Location	Land Use	Date	Group ID
G	308m N	Tanks	1948	144147
B	309m SE	Tanks	1931	106897
G	309m NW	Tanks	1970	140203
G	310m NW	Tanks	1968	140203
G	312m N	Tanks	1931	142163
G	312m N	Tanks	1952	124332
G	312m N	Tanks	1948	124332
G	312m W	Tanks	1908	123297
G	313m W	Tanks	1949	130212
G	313m W	Tanks	1949	106888
G	313m W	Tanks	1952	130212
G	313m W	Tanks	1948	130212
G	314m NW	Unspecified Tank	1891	116060
G	314m NW	Tanks	1952	137067
G	314m NW	Tanks	1948	137067
G	314m NW	Tanks	1952	135614
G	314m NW	Tanks	1948	135614
G	316m NW	Unspecified Tank	1949	149300
G	317m W	Tanks	1931	123297
G	317m NW	Unspecified Tank	1948	126964
G	317m W	Tanks	1891	139837
G	317m N	Unspecified Tank	1949	133435
G	317m N	Tanks	1949	145402
G	317m N	Unspecified Tank	1970	133435
G	317m N	Tanks	1970	145402
G	318m N	Tanks	1968	138136
A	318m S	Tanks	1989	144183
G	318m N	Unspecified Tank	1955	133435



ID	Location	Land Use	Date	Group ID
G	318m N	Tanks	1970	138136
G	318m N	Unspecified Tank	1955	116075
A	318m S	Tanks	1986	144183
A	319m S	Tanks	1992	144183
G	319m NW	Unspecified Tank	1891	116061
G	321m NW	Tanks	1949	144071
G	321m N	Unspecified Tank	1955	116074
G	321m N	Tanks	1955	130903
G	321m N	Tanks	1971	129083
G	322m N	Tanks	1970	106874
G	324m N	Tanks	1955	148273
G	325m N	Tanks	1949	148273
G	325m N	Tanks	1955	129863
G	325m N	Tanks	1970	129863
G	328m NW	Tanks	1949	147814
G	328m NW	Tanks	1949	144435
B	328m SE	Unspecified Tank	1948	125740
G	328m NW	Tanks	1952	145190
G	328m NW	Tanks	1948	145190
G	328m NW	Tanks	1952	145352
G	328m NW	Tanks	1948	145352
G	329m NW	Tanks	1952	132380
G	329m NW	Tanks	1948	132380
G	329m N	Tanks	1949	106887
A	330m S	Unspecified Tank	1948	116051
A	331m S	Unspecified Tank	1908	147259
A	331m S	Unspecified Tank	1922	147259
G	331m NW	Unspecified Tank	1931	116062



ID	Location	Land Use	Date	Group ID
G	332m NW	Unspecified Tank	1891	116035
G	333m N	Tanks	1949	147836
G	333m N	Tanks	1970	147836
G	333m N	Tanks	1955	106886
G	333m N	Tanks	1955	147679
G	333m NW	Tanks	1949	137933
G	333m NW	Unspecified Tank	1891	116036
G	334m N	Unspecified Tank	1908	116068
G	334m NW	Unspecified Tank	1949	116059
G	334m NW	Tanks	1952	137933
G	334m NW	Tanks	1948	137933
G	334m NW	Unspecified Tank	1891	116037
G	335m NW	Unspecified Tank	1971	133046
B	335m SE	Unspecified Tank	1948	122403
B	335m SE	Unspecified Tank	1955	122403
G	335m NW	Unspecified Tank	1949	123860
G	335m NW	Unspecified Tank	1970	123860
B	335m SE	Unspecified Tank	1979	122403
G	336m NW	Unspecified Tank	1955	123860
B	337m S	Unspecified Tank	1948	116052
M	339m W	Unspecified Tank	1891	125043
M	341m W	Unspecified Tank	1893	125043
G	341m NW	Unspecified Tank	1968	133800
G	342m NW	Unspecified Tank	1970	133800
B	343m SE	Unspecified Tank	1891	147647
G	344m NW	Tanks	1952	148884
G	344m NW	Tanks	1948	148884
G	344m N	Tanks	1955	138763



ID	Location	Land Use	Date	Group ID
G	344m N	Tanks	1949	148171
G	345m N	Tanks	1955	148171
G	346m N	Unspecified Tank	1970	116069
G	346m N	Tanks	1949	122819
G	346m N	Tanks	1955	133408
G	347m NW	Tanks	1952	130400
G	347m NW	Tanks	1948	130400
G	347m NW	Tanks	1949	130400
G	349m NW	Unspecified Tank	1893	116034
G	350m NW	Tanks	1949	133842
G	350m NW	Tanks	1952	123284
G	350m NW	Tanks	1948	123284
G	352m N	Unspecified Tank	1970	116067
M	354m W	Tanks	1891	106837
G	355m NW	Tanks	1931	126236
D	356m E	Unspecified Tank	1970	116093
D	357m E	Tanks	1968	131109
G	359m N	Tanks	1891	106885
G	359m NW	Unspecified Tank	1891	116033
G	359m NW	Tanks	1891	148395
D	359m E	Tanks	1970	141692
G	360m N	Unspecified Tank	1891	116065
M	360m W	Tanks	1891	137698
G	361m NW	Tanks	1891	106869
G	362m N	Tanks	1891	106873
G	362m NW	Tanks	1891	148519
M	364m W	Tanks	1891	128159
B	365m SE	Unspecified Tank	1955	140162



ID	Location	Land Use	Date	Group ID
B	365m SE	Unspecified Tank	1979	141260
B	365m SE	Unspecified Tank	1958	140162
G	366m NW	Tanks	1931	149145
M	366m W	Tanks	1891	106834
G	367m NW	Unspecified Tank	1891	144380
D	367m E	Tanks	1970	123034
D	368m SE	Unspecified Tank	1968	125026
D	368m SE	Unspecified Tank	1970	125026
G	368m NW	Tanks	1931	135216
G	368m NW	Tanks	1931	137654
G	369m NW	Tanks	1922	130441
G	369m W	Tanks	1949	137232
G	369m NW	Tanks	1952	127366
G	369m NW	Tanks	1948	127366
G	370m NW	Tanks	1922	106870
D	370m E	Tanks	1970	136413
G	370m W	Tanks	1952	138774
G	370m W	Tanks	1952	134151
D	370m SE	Unspecified Tank	1968	133963
G	370m W	Tanks	1949	138774
G	371m NW	Tanks	1931	139327
G	371m NW	Unspecified Tank	1891	116040
B	371m SE	Tanks	1948	106898
D	371m SE	Unspecified Tank	1970	133963
G	371m W	Unspecified Tank	1891	116048
G	371m NW	Tanks	1949	128217
G	371m NW	Tanks	1952	130441
G	371m NW	Tanks	1948	130441



ID	Location	Land Use	Date	Group ID
G	371m NW	Unspecified Tank	1931	139907
G	372m NW	Unspecified Tank	1891	116039
G	372m NW	Tanks	1891	138933
B	374m SE	Unspecified Tank	1931	116099
G	374m NW	Tanks	1931	145673
G	375m NW	Unspecified Tank	1952	134249
B	375m S	Tanks	1979	106893
G	376m NW	Unspecified Tank	1891	144341
G	376m NW	Unspecified Tank	1891	116066
G	377m NW	Unspecified Tank	1949	141310
G	377m NW	Tanks	1952	131174
G	377m NW	Tanks	1948	141183
B	377m SE	Unspecified Tank	1948	116095
G	377m NW	Tanks	1952	145731
G	377m NW	Tanks	1949	122597
G	377m NW	Tanks	1949	122597
G	377m NW	Tanks	1952	124574
G	377m NW	Unspecified Tank	1952	141310
G	377m NW	Unspecified Tank	1948	141310
G	378m W	Tanks	1952	147025
G	378m NW	Tanks	1931	145778
B	379m SE	Tanks	1948	106896
B	379m S	Tanks	1955	143974
B	379m S	Tanks	1958	143974
B	379m S	Tanks	1979	143974
G	380m W	Unspecified Tank	1893	116038
G	380m W	Tanks	1931	132320
G	380m NW	Tanks	1891	136918



ID	Location	Land Use	Date	Group ID
G	381m NW	Tanks	1922	139430
G	381m W	Tanks	1908	133401
G	381m NW	Tanks	1931	106871
G	382m NW	Tanks	1952	141690
G	382m NW	Tanks	1949	141690
D	382m E	Unspecified Tank	1970	130437
D	382m E	Unspecified Tank	1968	130437
B	384m S	Overhead Tanks	1948	120513
B	385m S	Tanks	1979	106890
G	385m NW	Tanks	1931	106872
G	386m NW	Tanks	1952	130724
G	386m NW	Tanks	1949	130724
G	386m NW	Tanks	1952	123317
G	386m NW	Tanks	1949	123317
G	386m W	Tanks	1952	133545
G	386m W	Tanks	1949	133545
O	386m N	Tanks	1922	106884
G	387m NW	Tanks	1931	106867
G	387m NW	Tanks	1949	127382
G	387m W	Tanks	1964	130055
G	387m NW	Tanks	1952	128019
G	387m NW	Tanks	1948	128019
G	387m W	Tanks	1952	130055
G	387m W	Tanks	1965	130055
G	387m W	Tanks	1949	130055
O	387m N	Unspecified Tank	1893	148061
G	388m NW	Tanks	1908	123317
G	388m NW	Tanks	1922	123317



ID	Location	Land Use	Date	Group ID
G	388m NW	Tanks	1931	142127
O	390m N	Unspecified Tank	1971	141749
G	391m W	Tanks	1952	131420
B	391m SE	Unspecified Tank	1891	116096
G	392m NW	Tanks	1952	130043
G	392m W	Tanks	1952	131420
G	392m W	Tanks	1965	131420
G	392m W	Tanks	1949	131420
G	393m W	Tanks	1964	131420
G	394m W	Tanks	1891	141301
G	395m W	Tanks	1931	141301
G	397m W	Tanks	1891	144312
G	397m NW	Tanks	1952	145083
G	397m NW	Tanks	1948	145083
G	397m NW	Tanks	1949	106866
D	398m E	Tanks	1949	106929
D	399m E	Tanks	1908	136314
D	399m E	Tanks	1922	136314
D	399m E	Tanks	1931	136314
D	401m E	Unspecified Tank	1949	122692
D	401m E	Oil Tanks	1922	139394
D	401m E	Oil Tanks	1931	139394
D	402m E	Oil Tanks	1908	132831
B	402m SE	Unspecified Tank	1891	116115
G	402m W	Unspecified Tank	1891	116047
G	403m W	Tanks	1952	139282
G	403m W	Tanks	1949	139282
G	403m W	Tanks	1952	139282



ID	Location	Land Use	Date	Group ID
G	403m W	Tanks	1949	13 92 82
D	404m E	Unspecified Tank	1968	12 85 81
B	404m S	Tanks	1948	13 26 24
J	404m S	Unspecified Tank	1891	11 61 17
D	404m E	Unspecified Tank	1970	12 85 81
D	405m E	Unspecified Tank	1968	13 98 76
D	405m E	Unspecified Tank	1970	13 98 76
J	407m S	Unspecified Tank	1891	11 61 16
B	408m SE	Unspecified Tank	1948	11 61 13
B	408m S	Tanks	1931	13 26 24
D	410m SE	Tanks	1922	13 50 92
D	410m SE	Tanks	1931	13 50 92
J	410m S	Unspecified Tank	1891	11 61 14
D	411m E	Tanks	1949	10 69 28
D	415m SE	Unspecified Tank	1931	11 61 00
B	417m SE	Unspecified Tank	1891	11 60 97
B	417m SE	Unspecified Tank	1891	11 60 98
D	418m E	Unspecified Tank	1949	11 60 92
D	422m E	Unspecified Tank	1949	11 60 90
D	426m SE	Tanks	1949	10 69 27
J	427m S	Unspecified Tank	1979	14 01 87
J	427m S	Unspecified Tank	1948	14 01 87
J	427m S	Unspecified Tank	1955	14 01 87
P	428m W	Tanks	1891	10 68 35
G	429m N	Unspecified Tank	1995	14 68 06
G	429m N	Unspecified Tank	1995	14 68 06
G	429m N	Unspecified Tank	1990	14 68 06
G	429m N	Unspecified Tank	1991	14 68 06



ID	Location	Land Use	Date	Group ID
J	431m S	Unspecified Tank	1931	116118
D	432m SE	Tanks	1958	130892
G	432m N	Unspecified Tank	1908	149215
G	432m N	Unspecified Tank	1922	149215
D	432m SE	Tanks	1948	130892
D	432m SE	Tanks	1955	130892
D	436m SE	Tanks	1908	147035
D	436m SE	Tanks	1922	147035
D	436m SE	Tanks	1931	147035
D	436m SE	Unspecified Tank	1968	116101
D	436m SE	Tanks	1949	130892
J	437m S	Unspecified Tank	1948	125105
J	437m S	Unspecified Tank	1955	125105
J	437m S	Unspecified Tank	1979	122787
D	439m SE	Tanks	1949	106926
D	441m E	Unspecified Tank	1968	132990
D	441m E	Unspecified Tank	1949	132990
D	441m E	Unspecified Tank	1970	132990
P	442m W	Tanks	1891	106833
D	442m E	Unspecified Tank	1908	144275
D	442m E	Unspecified Tank	1922	144275
J	444m S	Unspecified Tank	1931	116119
D	444m E	Unspecified Tank	1931	116091
T	445m N	Unspecified Tank	1949	116071
D	445m SE	Tanks	1948	137971
D	445m SE	Unspecified Tank	1955	116102
P	445m W	Tanks	1908	136878
P	445m W	Tanks	1922	136878



ID	Location	Land Use	Date	Group ID
D	448m SE	Tanks	1922	14 85 20
D	448m SE	Tanks	1931	14 85 20
9	449m N	Unspecified Tank	1971	11 60 72
D	452m SE	Tanks	1948	13 25 22
J	452m S	Unspecified Tank	1948	14 40 42
J	452m S	Unspecified Tank	1955	14 40 42
J	452m S	Unspecified Tank	1979	14 40 42
D	452m SE	Tanks	1949	10 69 25
J	453m S	Unspecified Tank	1986	12 77 83
J	453m S	Unspecified Tank	1989	12 77 83
J	457m S	Tanks	1948	10 68 09
J	457m S	Tanks	1948	12 81 95
J	457m S	Tanks	1955	12 79 68
J	458m S	Tanks	1979	12 98 20
Z	459m NW	Unspecified Tank	1952	13 37 60
Z	459m NW	Unspecified Tank	1952	13 37 60
J	459m S	Tanks	1931	12 79 04
J	459m S	Unspecified Tank	1908	11 61 26
P	460m W	Tanks	1891	13 39 88
D	460m SE	Tanks	1949	10 69 30
J	462m S	Tanks	1979	13 91 73
Z	462m NW	Unspecified Tank	1965	14 93 05
Z	462m NW	Unspecified Tank	1964	14 93 05
J	462m S	Tanks	1948	13 42 10
J	462m S	Tanks	1955	13 42 10
P	463m W	Unspecified Tank	1908	14 06 58
P	463m W	Unspecified Tank	1922	14 06 58
J	463m S	Tanks	1979	14 04 47



ID	Location	Land Use	Date	Group ID
J	463m S	Tanks	1986	140447
J	465m S	Tanks	1948	125836
J	465m S	Tanks	1989	125836
J	465m S	Tanks	1955	125836
P	468m W	Unspecified Tank	1893	116000
P	470m W	Tanks	1891	106836
AB	470m S	Tanks	1948	136522
AB	470m S	Tanks	1955	136522
P	471m W	Tanks	1891	106832
AB	473m S	Tanks	1931	140274
J	474m S	Tanks	1979	134652
J	474m S	Tanks	1948	134652
J	474m S	Tanks	1955	134652
J	477m S	Unspecified Tank	1979	142816
J	477m S	Unspecified Tank	1948	147680
J	477m S	Unspecified Tank	1955	141710
J	478m S	Unspecified Tank	1891	116124
J	478m S	Unspecified Tank	1908	116125
J	479m S	Unspecified Tank	1908	116120
J	482m S	Unspecified Tank	1931	116121
J	485m S	Tanks	1908	145285
J	485m S	Tanks	1922	145285
J	492m S	Unspecified Tank	1891	116123
J	494m S	Unspecified Tank	1908	127771
J	494m S	Unspecified Tank	1922	127771
J	494m S	Unspecified Tank	1931	127771
J	496m S	Tanks	1908	143683
J	497m S	Tanks	1922	134829



ID	Location	Land Use	Date	Group ID
J	497m S	Tanks	1931	134829
J	499m S	Tanks	1931	106806

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

93

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 37**

ID	Location	Land Use	Date	Group ID
A	69m SE	Gas Works	1984	71264
A	69m SE	Gas Holder Station	1991	83257
A	69m SE	Gas Works	1949	66752
A	82m SE	Gas Works	1952	74752
A	82m SE	Gas Works	1948	74752
A	83m SE	Gas Works	1968	74752
A	83m SE	Gas Works	1970	74752
A	84m S	Gas Holder Station	1995	83257
A	84m S	Gas Holder Station	1994	83257
A	85m SE	Gas Works	1893	80210
B	88m SE	Gas Works	1922	77534
B	88m SE	Gas Works	1908	77534
A	90m S	Corporation Gas Works	1891	79203
A	125m S	Gasometers	1893	78993
A	125m S	Gasometers	1908	78993
A	125m S	Gasometers	1922	78993
A	127m S	Gasometer	1891	59724
C	127m SW	Electricity Substation	1995	74979



ID	Location	Land Use	Date	Group ID
C	127m SW	Electricity Substation	1994	74979
C	128m SW	Electricity Substation	1968	74990
C	128m SW	Electricity Substation	1970	74990
C	128m SW	Electricity Substation	1984	74990
C	129m SW	Electricity Substation	1991	74979
A	158m S	Gasometer	1891	59723
A	185m S	Gas Works	1979	64728
A	186m S	Gas Holder Station	1992	79718
D	186m SE	Gas Works	1949	85321
D	186m SE	Gas Works	1970	85321
A	188m S	Gas Holder Station	1986	65294
A	188m S	Gas Holder Station	1989	65294
A	199m S	Gasometer	1891	59722
B	208m SE	Gas Works	1948	85321
A	210m S	Gas Holder	1989	77108
A	210m S	Gasometers	1979	63338
D	210m E	Gas Works	1968	85321
A	210m S	Gas Holder	1986	77108
A	211m S	Gasholder	1992	63416
A	217m S	Gasometer	1908	70420
A	217m S	Gasometer	1922	70420
F	218m E	Gas Works	1984	71747
G	234m NW	Electricity Substation	1949	78253
G	234m NW	Electricity Substation	1970	78253
G	234m NW	Electricity Substation	1968	78253
G	234m NW	Electricity Substation	1952	78253
G	234m NW	Electricity Substation	1948	78253
G	235m NW	Electricity Substation	1995	78253



ID	Location	Land Use	Date	Group ID
G	235m NW	Electricity Substation	1994	78253
G	236m NW	Electricity Substation	1984	69820
G	236m NW	Electricity Substation	1991	69820
B	239m SE	Gas Works	1948	85321
A	262m S	Corporation Gas Works	1891	79203
F	270m E	Gas Holder	1984	68164
A	270m SW	Gasholder	1992	63417
A	270m SW	Gas Holder	1989	74103
A	270m SW	Gas Holder	1986	74103
F	270m E	Gasometer	1949	76542
F	271m E	Gasometer	1968	75789
F	271m E	Gas Holder	1995	72614
F	271m E	Gas Holder	1995	72614
F	271m E	Gasometer	1922	76542
B	279m S	Gas Works	1891	73418
K	291m W	Electricity Substation	1995	82234
K	291m W	Electricity Substation	1994	82234
K	291m W	Electricity Substation	1984	82234
K	291m W	Electricity Substation	1991	82234
K	291m W	Electricity Substation	1968	82234
K	292m W	Electricity Substation	1970	82234
T	370m N	Gas Plant Iron Works	1955	66060
T	373m N	Gas Plant Works	1931	79660
G	377m N	Electricity Substation	1995	68028
G	377m N	Electricity Substation	1995	68028
G	378m N	Electricity Substation	1990	68028
G	378m N	Electricity Substation	1991	68028
T	380m N	Gas Plant Iron Works	1949	66060



ID	Location	Land Use	Date	Group ID
T	380m N	Gas Plant Works	1970	79660
G	389m W	Gas Governor	1981	63605
T	438m N	Gas Plant Iron Works	1931	85136
T	443m N	Gas Plant Iron Works	1949	79157
T	443m N	Gas Plant Works	1970	63814
T	444m N	Gas Plant Iron Works	1955	77109
T	446m N	Electricity Substation	1955	65838
T	446m N	Electricity Substation	1971	65838
T	446m N	Electricity Substation	1984	65838
T	446m N	Electricity Substation	1990	65838
T	446m N	Electricity Substation	1991	65838
T	446m N	Electricity Substation	1970	73742
T	447m N	Electricity Substation	1995	73742
T	447m N	Electricity Substation	1995	73742
S	468m W	Electricity Substation	1952	68454
S	469m W	Electricity Substation	1952	68454
AD	485m NE	Electricity Substation	1990	70505
AD	486m NE	Electricity Substation	1979	67258
AD	486m NE	Electricity Substation	1995	67258

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

5

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'.

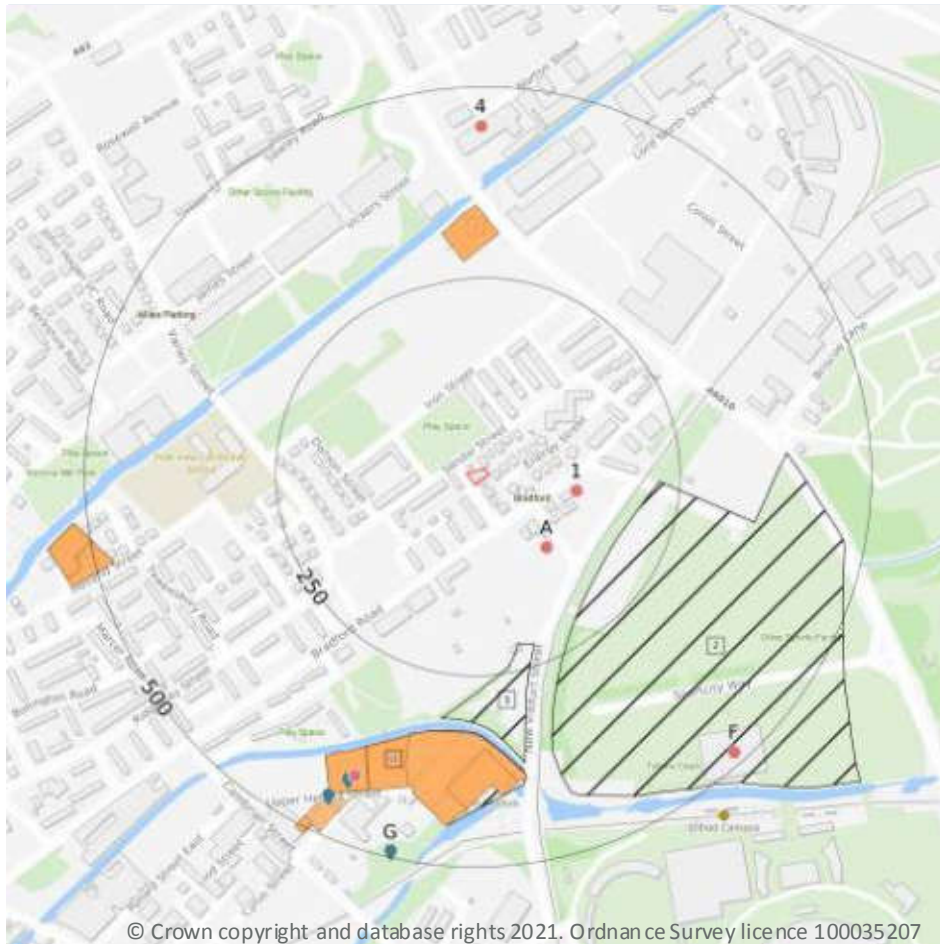
Features are displayed on the Past land use - un-grouped map on **page 37**

ID	Location	Land Use	Date	Group ID
W	383m NE	Garage	1984	21414
W	383m NE	Garage	1995	25834
W	383m NE	Garage	1995	25834
W	410m NE	Garage	1970	27654
W	410m NE	Garage	1968	27654

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

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

3

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 72**

ID	Location	Details		
2	186m SE	Site Address: Bradford Road Works, Bradeley Hall Road, Haslington, Crewe, Cheshire Licence Holder Address: Welman House, Altrincham, Cheshire	Waste Licence: Yes Site Reference: RD/LIC/180/79, GDO F058, 0381 Waste Type: Inert, Industrial, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/12/1979 Licence Surrender: 14/12/1983	Operator: - Licence Holder: North West Gas First Recorded 07/12/1979 Last Recorded: 01/12/1983
3	215m S	Site Address: New Viaduct Street, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F045 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
C	322m S	Site Address: Bradford Road - Cambrian Street Depot, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: F044, RD/LIC/381/84 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 10/10/1985 Licence Surrender: 09/03/1993	Operator: - Licence Holder: Regional Surveyore (North West Gas) First Recorded 31/12/1985 Last Recorded: 31/12/1990

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



3.5 Historical waste sites

Records within 500m
15

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on **page 72**

ID	Location	Address	Further Details	Date
B	273m N	Site Address: N/A	Type of Site: Waste & c. Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
B	273m N	Site Address: N/A	Type of Site: Waste & c. Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
C	324m S	Site Address: N/A	Type of Site: Corporation Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
C	324m S	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
D	339m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1986
C	345m S	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1958
D	370m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1988



ID	Location	Address	Further Details	Date
D	370m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1986
D	371m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1992
D	444m S	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
E	474m W	Site Address: N/A	Type of Site: Scrap Metal Depot Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
E	475m W	Site Address: N/A	Type of Site: Scrap Metal Depot Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
D	486m SW	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
E	497m W	Site Address: N/A	Type of Site: Scrap Metal Depot Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
E	497m W	Site Address: N/A	Type of Site: Scrap Metal Depot Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949

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



3.6 Licensed waste sites

Records within 500m

5

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

Features are displayed on the Waste and landfill map on **page 72**

ID	Location	Details		
D	421m SW	Site Name: D Race & Sons Site Address: Upper Helena Street, Manchester, M40 7EQ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DRS001 EPR reference: EA/EPR/MP3992CS/S002 Operator: Race Dennis Waste Management licence No: 53429 Annual Tonnage: 5000	Issue Date: 18/11/1999 Effective Date: - Modified: - Surrendered Date: Jun 14 2004 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
D	450m SW	Site Name: Upper Helena Street Site Address: - Correspondence Address: Bradley Hall Farm, Rhodes Green, Middleton, Manchester, M24 4SL	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WAR001 EPR reference: - Operator: Warrender David Waste Management licence No: 50069 Annual Tonnage: 0	Issue Date: 16/05/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	450m SW	Site Name: Upper Helena Street Site Address: - Correspondence Address: Bradley Hall Farm, Rhodes Green, Middleton, Manchester, M24 4SL	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAR001 EPR reference: - Operator: Warrender David Waste Management licence No: 50069 Annual Tonnage: 0	Issue Date: 16/05/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
G	493m S	Site Name: P Mc Guinness & Co Ltd Site Address: Holt Town Ind Est, Holt Town, Manchester, M40 7FQ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MPC001 EPR reference: EA/EPR/JP3892CY/S002 Operator: Mc Guinness & Co Ltd Waste Management licence No: 53629 Annual Tonnage: 50000	Issue Date: 03/11/1995 Effective Date: - Modified: - Surrendered Date: Jun 26 2002 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
G	493m S	Site Name: P Mc Guinness & Co Ltd Site Address: Holt Town Ind Est, Holt Town, Manchester, M40 7FQ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MPC001 EPR reference: EA/EPR/JP3892CY/S002 Operator: Mc Guinness & Co Ltd Waste Management licence No: 53629 Annual Tonnage: 50000	Issue Date: 03/11/1995 Effective Date: - Modified: - Surrendered Date: Jun 26 2002 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m

18

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 72**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	116m E	manchester storage barking street manchester manchester m40 7bt	EPR/JF0204WB/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	121m SE	Apartment 10 7 Stillwater Drive Manchester Manchester M11 4TG	EPR/QF0301VL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
A	121m SE	Apartment 10 7 Stillwater Drive Manchester Manchester M11 4TG	EPR/QF0301VL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Mechanical treatment of end-of-life tyres
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202MC/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal

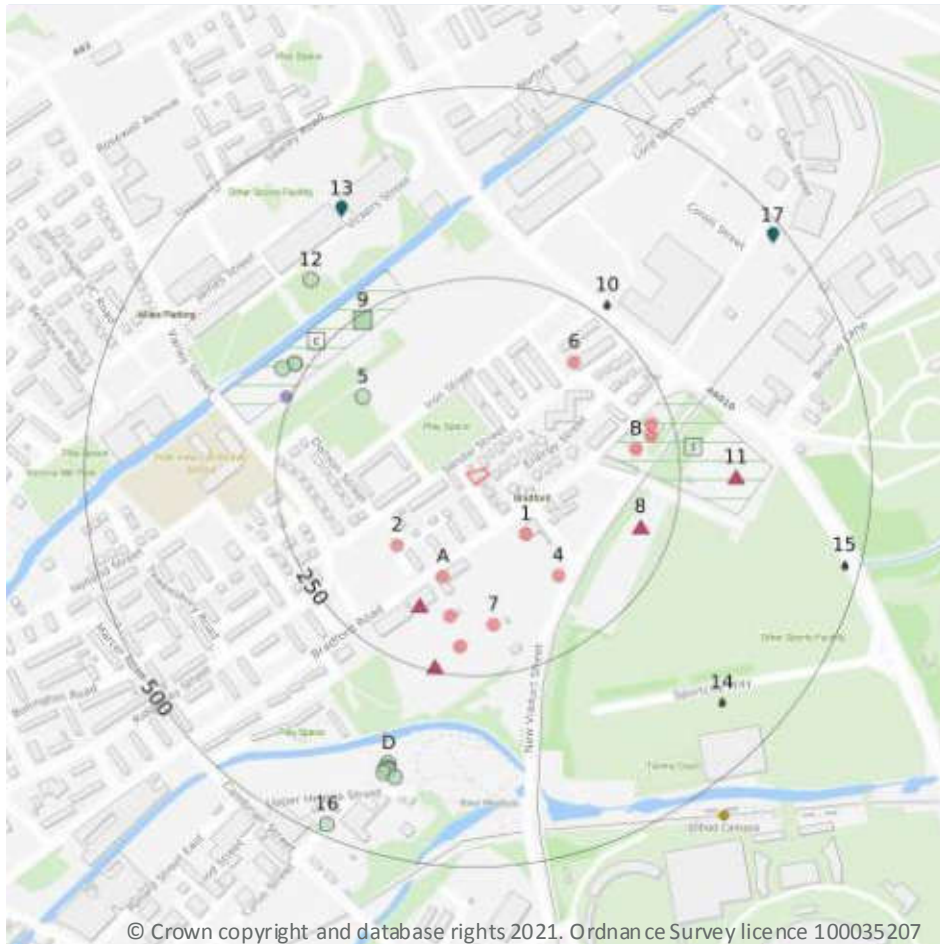


ID	Location	Site	Reference	Category	Sub-Category	Description
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202M C/A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
D	412m S	5f Upper Helena Street MANCHESTER M40 7EQ	EPR/KF0202M C/A001	Using waste exemption	Non- Agricultura l Waste Only	Use of baled end-of-life tyres in construction
4	448m N	Withers & Bolton Hulme Hall Lane MANCHESTER M40 8YD	EPR/AE5784N M/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
F	484m SE	-	WEX269478	Using waste exemption	Not on a farm	Use of waste in construction
F	484m SE	BAM Project Office, CFG Campus, Off Gibbon Street / Alan Turing Way, Manchester, M11 3DU	WEX253830	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	484m SE	BAM Project Office, CFG Campus, Off Gibbon Street / Alan Turing Way, Manchester, M11 3DU	WEX253830	Using waste exemption	Not on a farm	Use of mulch

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

11

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 80**

ID	Location	Company	Address	Activity	Category
1	91m SE	F Dunn & Sons	222a, Bradford Road, Manchester, Greater Manchester, M40 7BT	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	127m S	Warehouse	Greater Manchester, M40	Container and Storage	Transport, Storage and Delivery
2	129m SW	Electricity Sub Station	Greater Manchester, M40	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
4	159m SE	Mast	Greater Manchester, M40	Telecommunications Features	Infrastructure and Facilities
A	175m S	Chimney	Greater Manchester, M40	Chimneys	Industrial Features
6	182m NE	J B S Balers	267, Sandal Street, Manchester, Greater Manchester, M40 7BB	Recycling, Reclamation and Disposal	Recycling Services
7	185m S	Tank	Greater Manchester, M40	Tanks (Generic)	Industrial Features
B	195m E	J F M	250-252, Bradford Road, Manchester, Greater Manchester, M40 7BT	Printing Related Machinery	Industrial Products
A	212m S	Gas Holder Station	Greater Manchester, M40	Gas Features	Infrastructure and Facilities
B	218m E	Bradford Road Car Sales	256, Bradford Road, Manchester, Greater Manchester, M40 7BT	Secondhand Vehicles	Motoring
B	221m E	Warehouse	Greater Manchester, M40	Container and Storage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

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

2

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.

Features are displayed on the Current industrial land use map on **page 80**

ID	Location	Company	Address	Operational status	Tier
3	153m E	British Gas	British Gas, Bradford Road Holder Station, Bradford Road, Miles Platting, M10 7BL	Historical COMAH Site	-
C	227m NW	Degussa Ltd	Degussa Ltd, Coleshill Street, Miles Platting, M10 7AA	Historical COMAH Site	-

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

4

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.

Features are displayed on the Current industrial land use map on **page 80**



ID	Location	Details	
A	173m SW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: National Grid Gas PLC, Bradford Road Holder Station (West), Bradford Road, Miles Platting, Manchester, Greater Manchester, England, M40 7AS	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
8	208m E	Application reference number: 059226/HSC/NORTH2/00 Application status: Historical Consent Application date: 11/07/2000 Address: Land Bounded By Alan Turing Way & New Viaduct Street, Bradford	Details: Continuation Of Hazardous Substances Consent For Storage Of Gas Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
A	243m S	Application reference number: 059225/HSC/NORTH2/00 Application status: Historical Consent Application date: 11/05/2000 Address: Land At Gleden Street, Bradford, WF17 6HY	Details: Continuation Of Hazardous Substances Consent For Storage Of Gas Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
11	322m E	Application reference number: 000001/HSC/NORTH2/92 Application status: Historical Consent Application date: 01/10/1992 Address: National Grid Gas PLC, Bradford Road Holder Station (East), Bradford Road, Miles Platting, Manchester, Greater Manchester, England, M40 7BN	Details: Storage of low pressure gas. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

2

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.

Features are displayed on the Current industrial land use map on **page 80**

ID	Location	Details	
C	256m NW	Operator: Degussa Ltd Address: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7AA Process: Inorganic Chemical Processes Permit Number: AO1292	Original Permit Number: IPCAPP Date Approved: 31-1-1995 Effective Date: 6-2-1995 Status: Superseded By Variation



ID	Location	Details	
C	256m NW	Operator: Degussa Ltd Address: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7AA Process: Inorganic Chemical Processes Permit Number: BC9682	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

2

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 80**

ID	Location	Address	Details	
13	383m NW	Duo Plastics Ltd, Vickers Street, Miles Platting, M10 8FA	Process: Printing Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
17	484m NE	Trafford Rubber Product Ltd, North Manchester Site, 55 Clifton Street, Miles Platting, M10 8HF	Process: Rubber Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

3

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 80**

ID	Location	Address	Details	
10	267m NE	HULME HALL LANE OPP FALMO, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0260 Permit Version: 1 Receiving Water: SHOOTERS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
14	426m SE	BRADFORD RD GAS WORKS, OPPOSITE ELM STREET, BRADFORD, MANCHESTER, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982626 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6) Issue date: - Effective Date: 30/09/1994 Revocation Date: 02/10/1998
15	479m E	MILL ST/FORGE LANE, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0099 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 26/08/1999

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

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 80**

ID	Location	Name	Status	Receiving Water	Authorised Substances
9	242m NW	Degussa Ltd, Manox House, Colehill Street	Not Active	-	Cyanide

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

12

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 80**

ID	Location	Details	
5	169m NW	Incident Date: 20/02/2002 Incident Identification: 67095 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	266m NW	Incident Date: 03/10/2001 Incident Identification: 34438 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	266m NW	Incident Date: 03/10/2001 Incident Identification: 34438 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
C	277m NW	Incident Date: 16/03/2001 Incident Identification: 425 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12	325m NW	Incident Date: 18/09/2003 Incident Identification: 190845 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
D	381m S	Incident Date: 03/08/2001 Incident Identification: 21821 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	387m S	Incident Date: 25/06/2001 Incident Identification: 11433 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	387m S	Incident Date: 28/06/2001 Incident Identification: 12020 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	389m S	Incident Date: 27/06/2001 Incident Identification: 11933 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	394m S	Incident Date: 04/07/2001 Incident Identification: 13774 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
D	396m S	Incident Date: 18/07/2001 Incident Identification: 17447 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
16	484m SW	Incident Date: 13/12/2002 Incident Identification: 125940 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

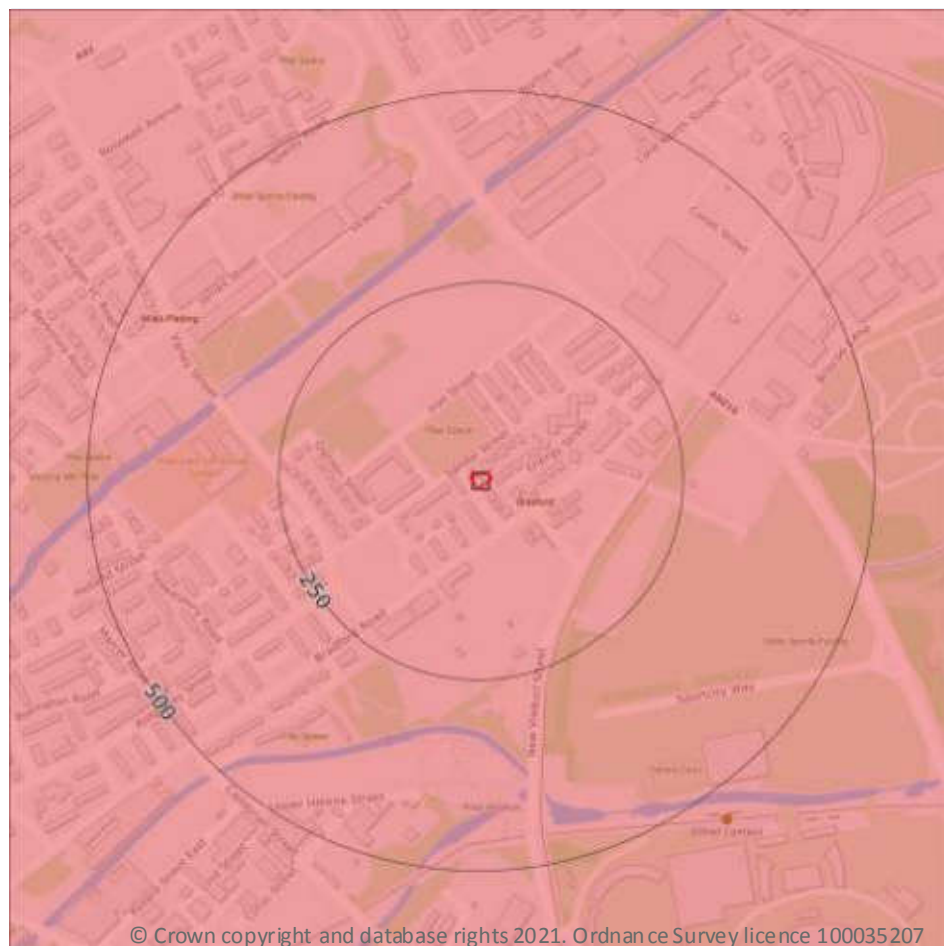
Features are displayed on the Hydrogeology map on **page 89**

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

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



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

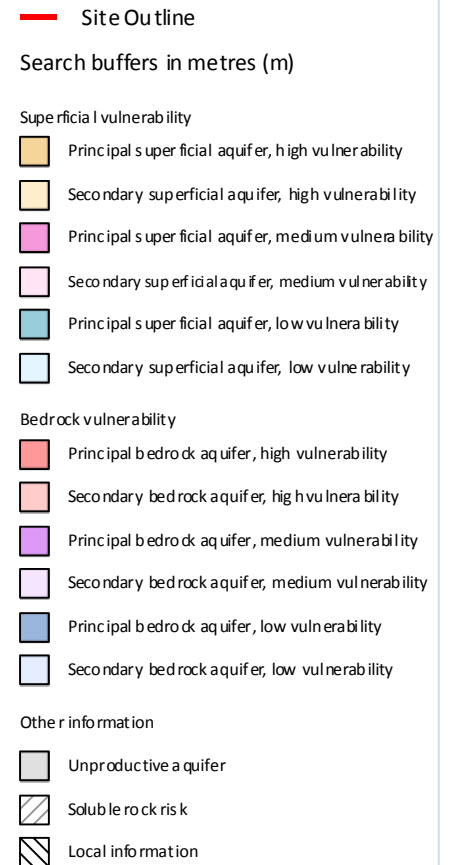
Features are displayed on the Bedrock aquifer map on **page 90**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 91**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	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: 300- 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

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

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

5.5 Groundwater vulnerability- local information

Records on site

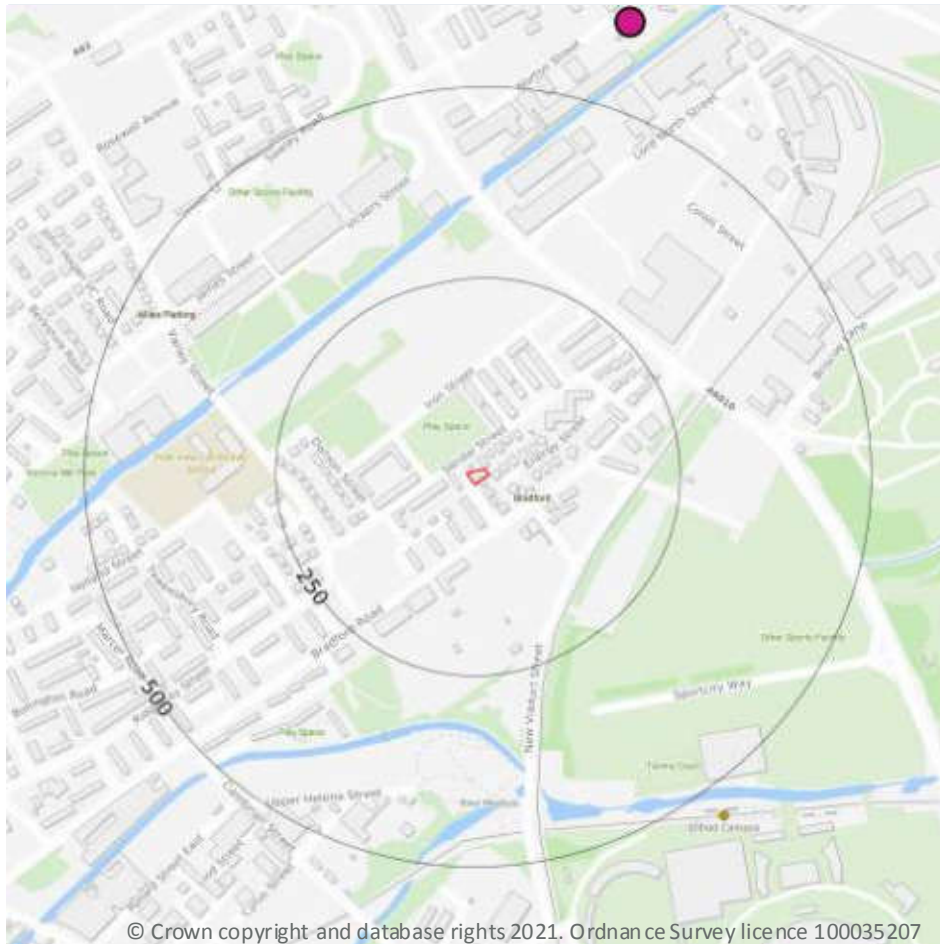
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

27

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 93**

ID	Location	Details	
A	614m N	Status: Historical Licence No: 2569005061 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER" Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 386550 Northing: 399790	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 08/02/2000 Expiry Date: - Issue No: 2 Version Start Date: 01/07/2000 Version End Date: -
A	614m N	Status: Active Licence No: 2569005061 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LIMITED Easting: 386550 Northing: 399790	Annual Volume (m³): 33,000 Max Daily Volume (m³): 125 Original Application No: - Original Start Date: 08/02/2000 Expiry Date: - Issue No: 3 Version Start Date: 13/08/2012 Version End Date: -
-	1611m NW	Status: Historical Licence No: 2569005015 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10" Data Type: Point Name: PACKAGING PRODUCTS LTD Easting: 385000 Northing: 400100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1995 Version End Date: -
-	1611m NW	Status: Active Licence No: 2569005015 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10 Data Type: Point Name: Packaging Products (Coatings) Ltd Easting: 385000 Northing: 400100	Annual Volume (m³): 438,689 Max Daily Volume (m³): 1,636.56 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/02/2011 Version End Date: -



ID	Location	Details	
-	1704m SE	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 1 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 387860 Northing: 398379	Annual Volume (m ³): 111,831.60 Max Daily Volume (m ³): 654.62 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -
-	1705m SE	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 2 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 387859 Northing: 398375	Annual Volume (m ³): 111,831.60 Max Daily Volume (m ³): 654.62 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -
-	1728m SE	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1728m SE	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -



ID	Location	Details	
-	1728m SE	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m³): 633962 Max Daily Volume (m³): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1728m SE	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m³): 633962 Max Daily Volume (m³): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1729m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1729m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -



ID	Location	Details	
-	1729m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 ON PREMISES AT CROFT STREET CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m³): 111832 Max Daily Volume (m³): 654.624 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1757m SE	Status: Historical Licence No: NW/069/0006/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m³): 266113 Max Daily Volume (m³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1757m SE	Status: Historical Licence No: NW/069/0006/005 Details: Horticultural Watering Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m³): 266113 Max Daily Volume (m³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1757m SE	Status: Historical Licence No: NW/069/0006/005 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m³): 266113 Max Daily Volume (m³): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1757m SE	Status: Active Licence No: NW/069/0006/005/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m³): 221,650 Max Daily Volume (m³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -



ID	Location	Details	
-	1757m SE	Status: Active Licence No: NW/069/0006/005/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m³): 221,650 Max Daily Volume (m³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1899m SE	Status: Active Licence No: 2569006036 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 388027 Northing: 398277	Annual Volume (m³): 372,772 Max Daily Volume (m³): 3,600.50 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -
-	1915m SE	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1915m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -



ID	Location	Details	
-	1915 m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1915 m SE	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1915 m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): 372772 Max Daily Volume (m³): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1915 m SE	Status: Historical Licence No: 2569006036 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m³): 372772 Max Daily Volume (m³): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -



ID	Location	Details	
-	1982m SW	Status: Historical Licence No: 2569006001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, BROADIE ST, ARDWICK, MANCHESTER" Data Type: Point Name: MOSELEY RUBBER CO LTD Easting: 385240 Northing: 397540	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/02/1966 Version End Date: -
-	1982m SW	Status: Historical Licence No: 2569006001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, BROADIE ST, ARDWICK, MANCHESTER Data Type: Point Name: MOSELEY RUBBER CO LTD Easting: 385240 Northing: 397540	Annual Volume (m³): 331858 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/02/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

6

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 93**

ID	Location	Details	
-	1469m SE	Status: Historical Licence No: 2569006996 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER [VITACOM] Data Type: Point Name: BRITISH WATERWAYS Easting: 387600 Northing: 398400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -



ID	Location	Details	
-	1641m SE	Status: Historical Licence No: 2569006997 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ASHTON CANAL, MANCHESTER [CLAYTON ANALINE]" Data Type: Point Name: BRITISH WATERWAYS Easting: 387800 Northing: 398400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1641m SE	Status: Historical Licence No: 2569006997 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER [CLAYTON ANALINE] Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 387800 Northing: 398400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1641m SE	Status: Active Licence No: 2569006997 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL MANCHESTER CLAYTON ANALINE Data Type: Point Name: Canal and River Trust Easting: 387800 Northing: 398400	Annual Volume (m³): 3,500,420 Max Daily Volume (m³): 3,500,420 Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1953m SE	Status: Historical Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ASHTON CANAL, MANCHESTER" Data Type: Point Name: BRITISH WATERWAYS Easting: 388100 Northing: 398300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -



ID	Location	Details	
-	1953m SE	Status: Active Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER Data Type: Point Name: Canal and River Trust Easting: 388100 Northing: 398300	Annual Volume (m ³): 68,190 Max Daily Volume (m ³): 68,190 Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

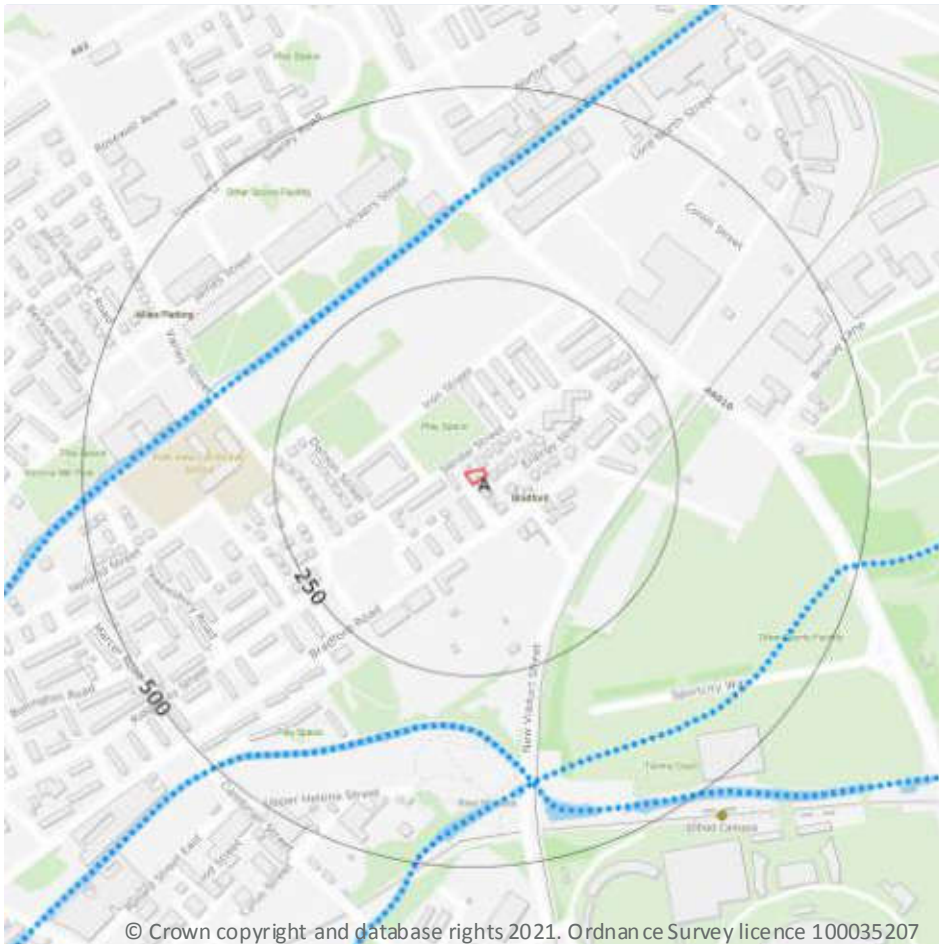
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive 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 Ground water body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.



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 103**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Medlock (Lumb Brook to Irwell)	GB112069061152	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 103**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
5	389m S	River	Medlock (Lumb Brook to Irwell)	GB112069061152	Moderate	Good	Moderate	2016

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 103**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers	<u>GB41201G101100</u>	Poor	Poor	Poor	2015

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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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
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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



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 1000 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 109**

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.



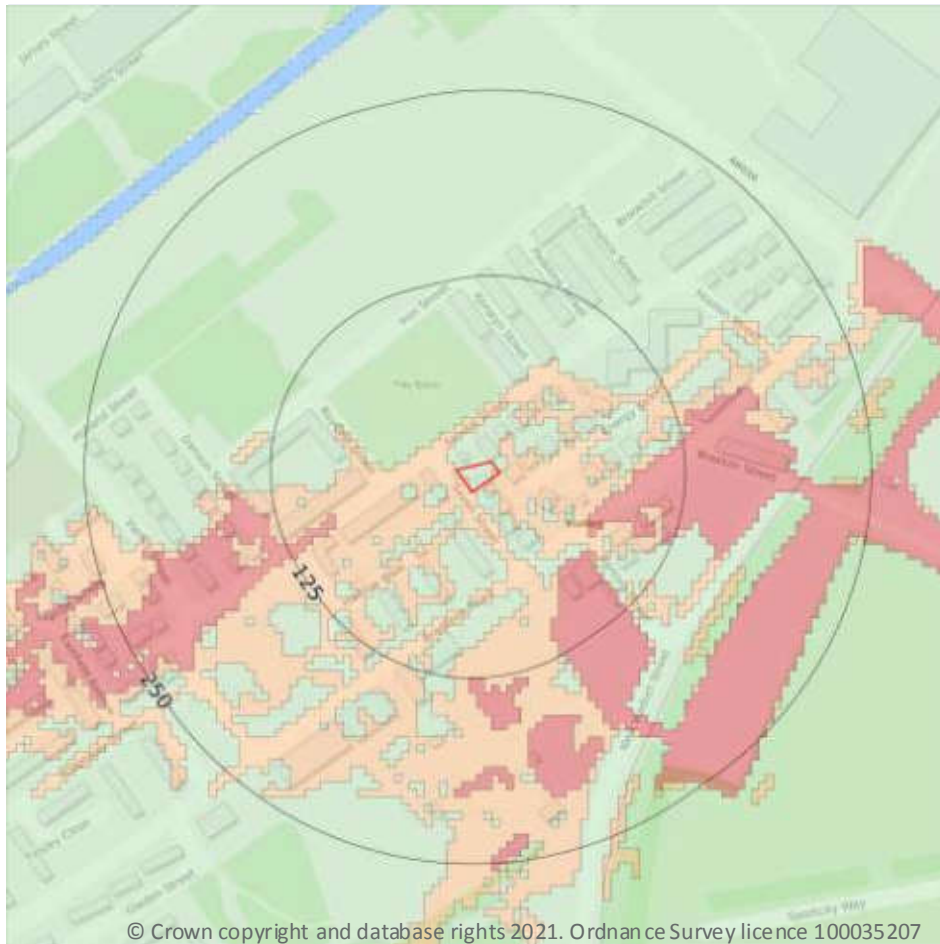
The table below shows the maximum flood depths for a range of return periods for the site.

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

Moderate-High

Highest risk within 50m

Moderate-High

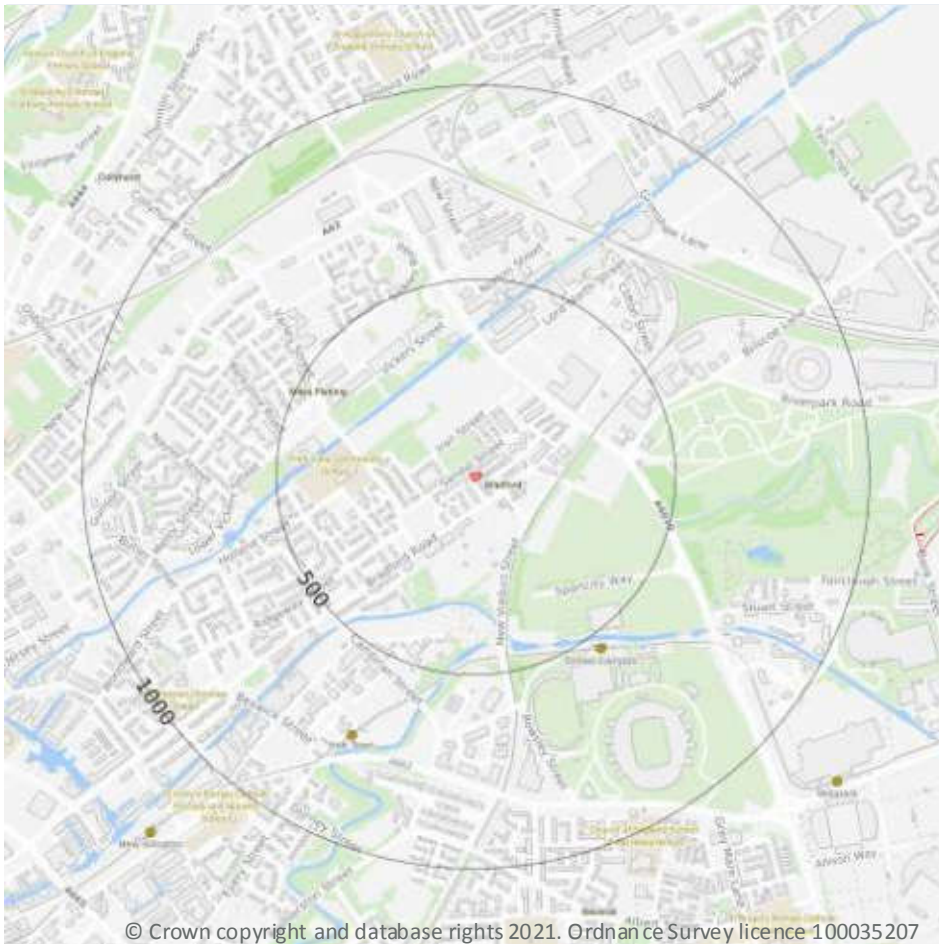
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks 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 5 m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 111**

This data is sourced from Ambiental Risk Analytics.



10 Environmental designations



- 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 112**

ID	Location	Name	Data source
A	1126m E	Clayton 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

1

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

Features are displayed on the Environmental designations map on **page 112**

ID	Location	Name	Local Authority name
-	1346m E	Merseyside and Greater Manchester	Manchester

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**1**

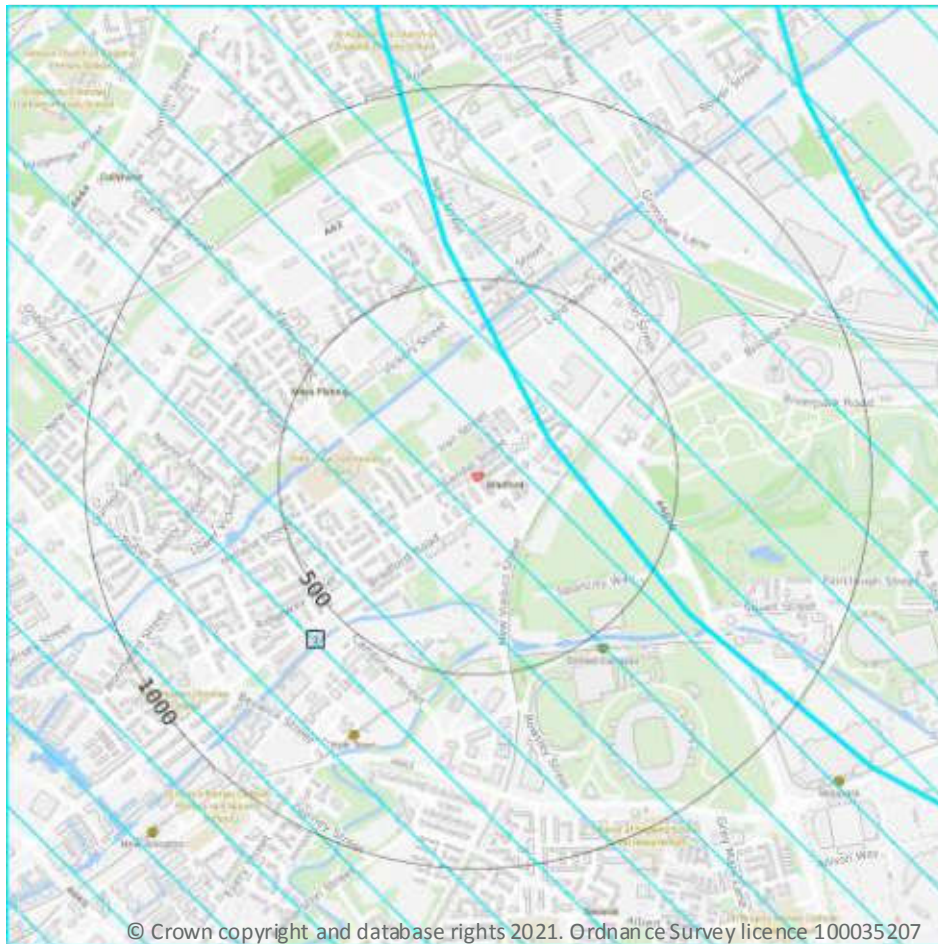
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
669m N	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 117**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, heli pads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t) Combustion - General combustion processes > 50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
-----------------------------	----------

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

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

0

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.



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 121**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

1

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.

Features are displayed on the Agricultural designations map on **page 121**

ID	Location	Description	Reference	Application date
2	25m NW	Selective Fell/Thin (Conditional)	010/10/12-13	11/06/2012

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 wild life 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

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

3

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.

Features are displayed on the Habitat designations map on **page 123**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	108m NW	NLUD Ref: 421500766	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-
2	173m S	HLD_refs: EAHLD16497	Low	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography	-
3	224m NW	NLUD Ref: 421500766	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

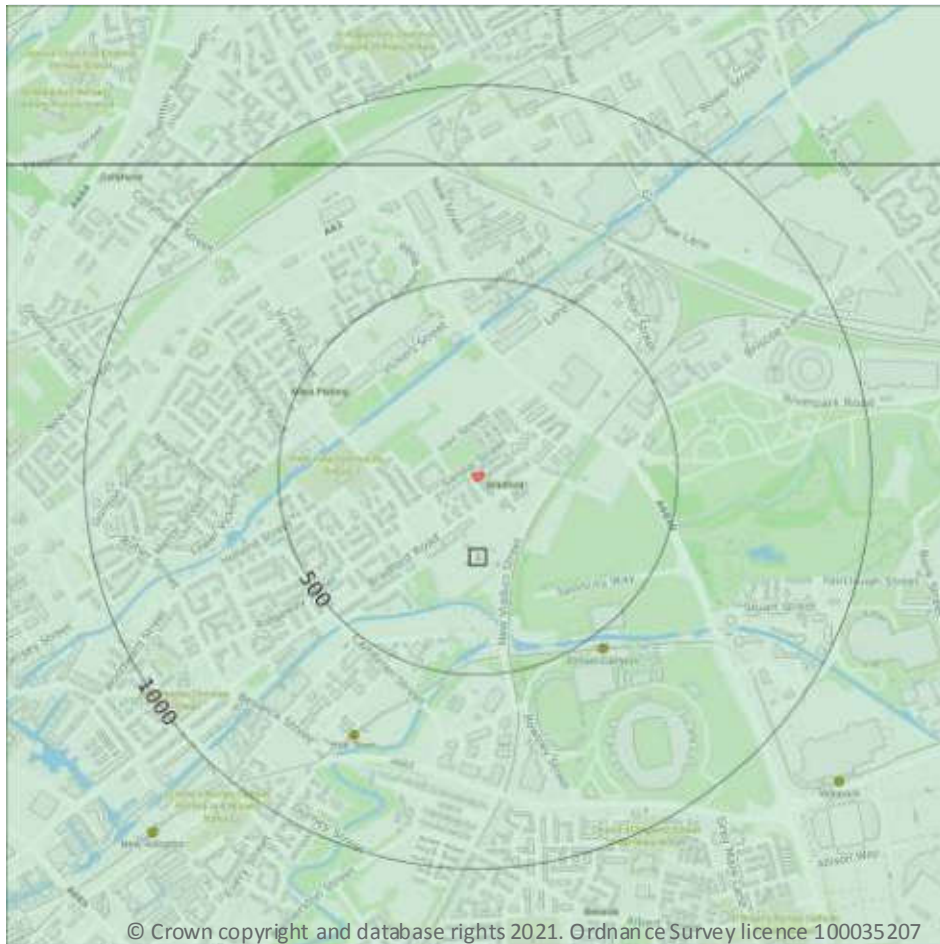
0

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.

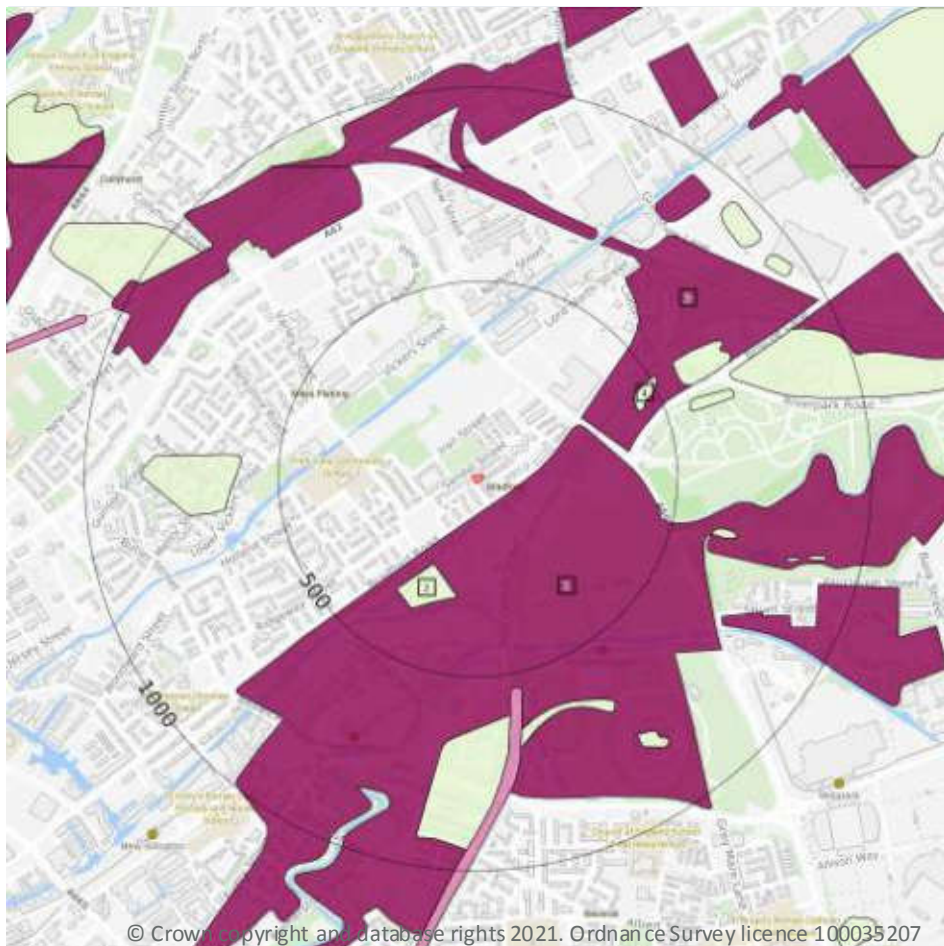
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 125**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SJ89NE

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

4

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 126**

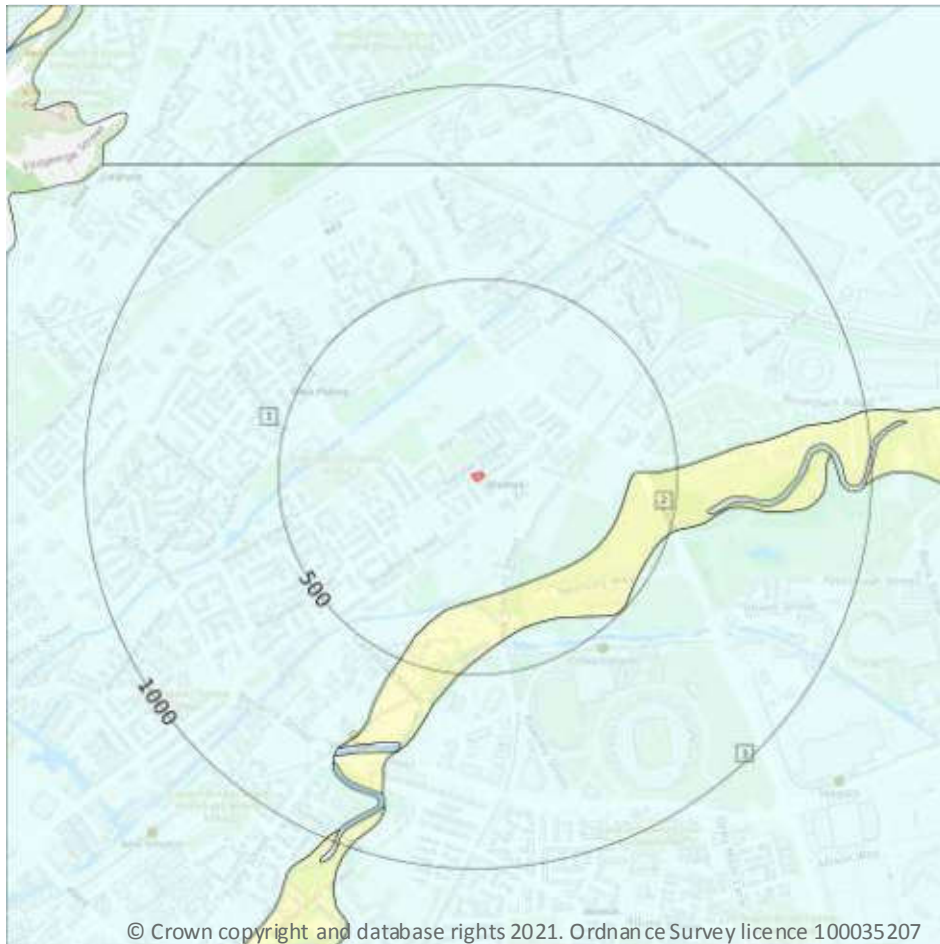
ID	Location	LEX Code	Description	Rock description
1	69m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	235m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	296m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	434m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit



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

3

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 128**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	292m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	399m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

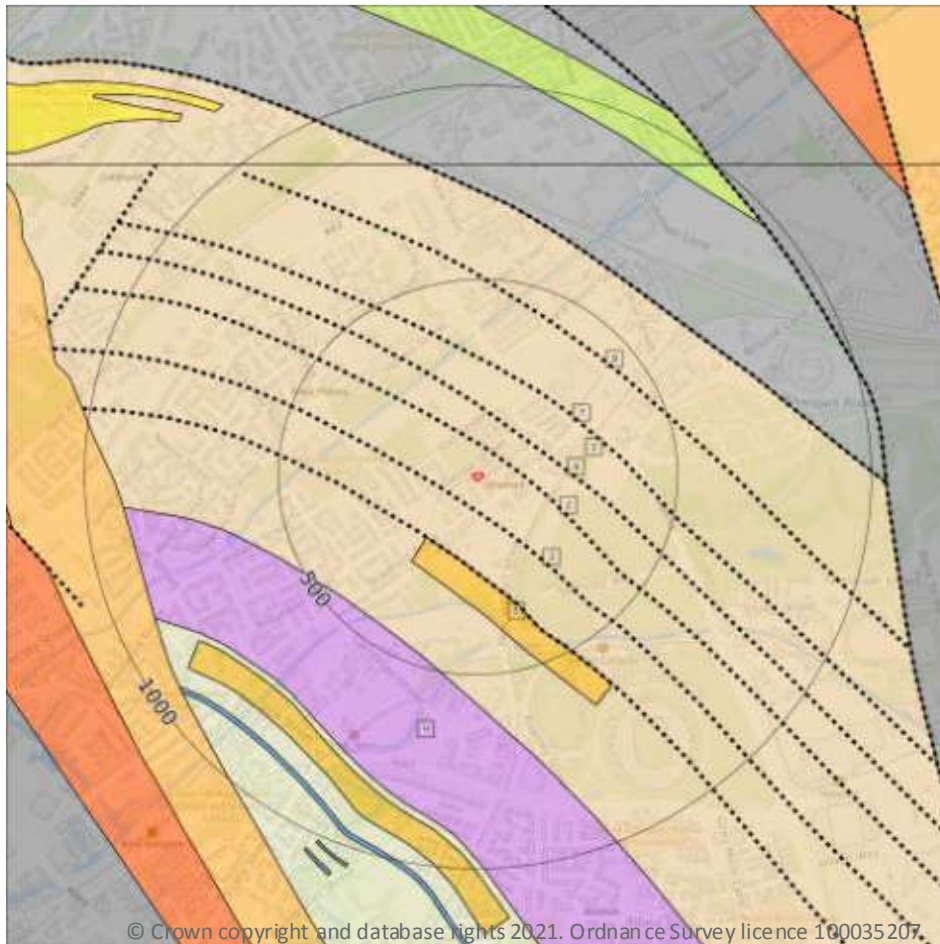
0

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

3

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 130**

ID	Location	LEX Code	Description	Rock age
1	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
5	192m SW	OPS-SDST	Openshaw Sandstone - Sandstone	Bolsovian Sub-age
9	445m SW	ETM-STMD	Etruria Formation - Sandstone And Mudstone	Westphalian Age



This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

6

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.

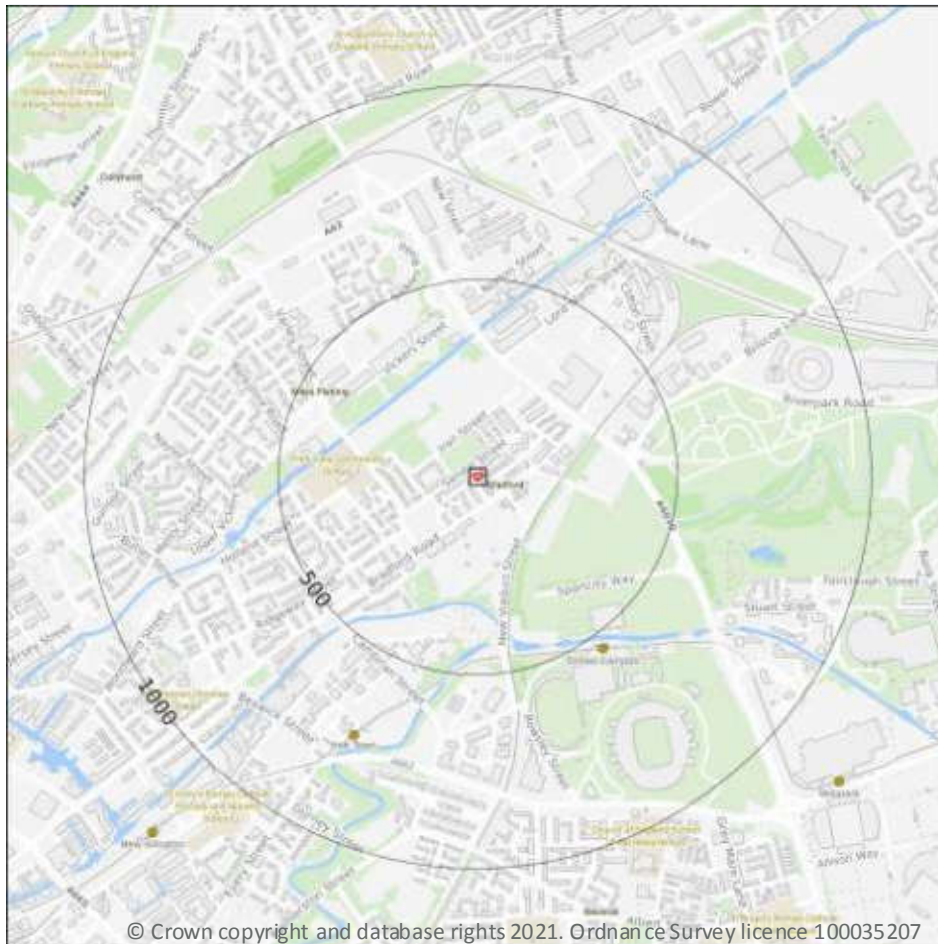
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 130**

ID	Location	Category	Description
2	59m NE	ROCK	Coal seam, inferred
3	65m SW	ROCK	Coal seam, inferred
4	137m NE	ROCK	Coal seam, inferred
6	192m SW	ROCK	Coal seam, inferred
7	256m NE	ROCK	Coal seam, inferred
8	421m NE	ROCK	Coal seam, inferred

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.

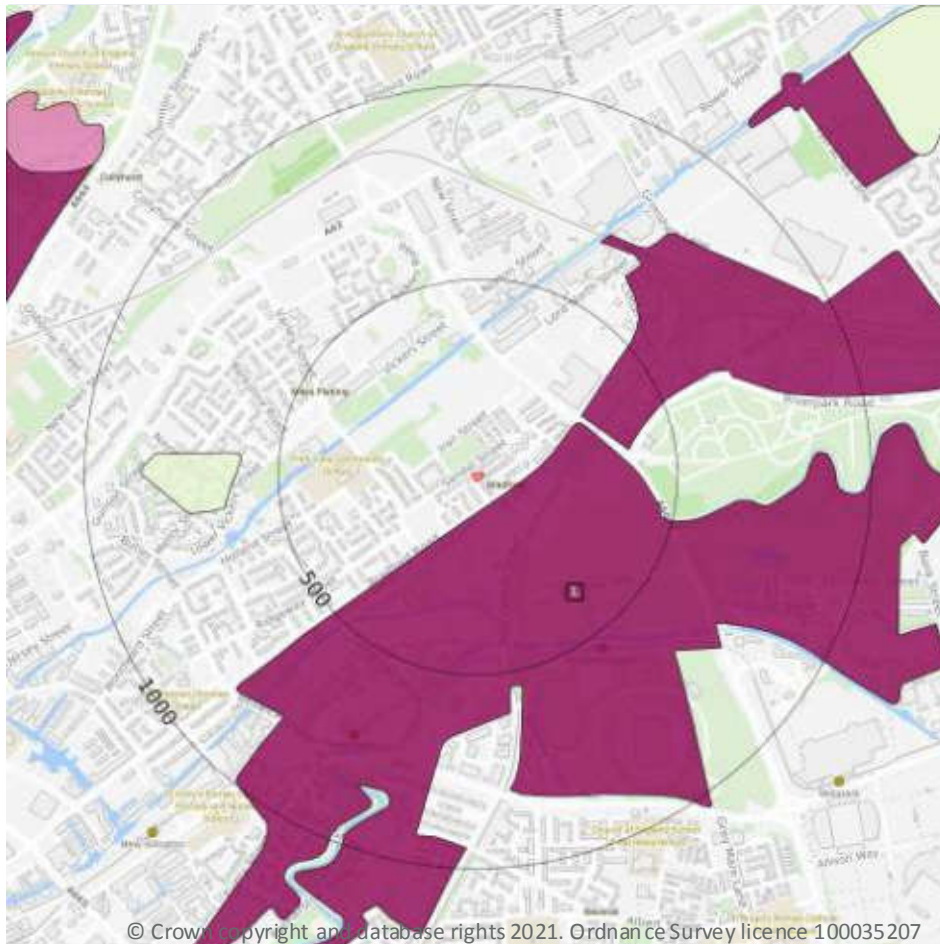
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 132**

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 133**

ID	Location	LEX Code	Description	Rock description
1	69m SE	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

2

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 135**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	292m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

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)

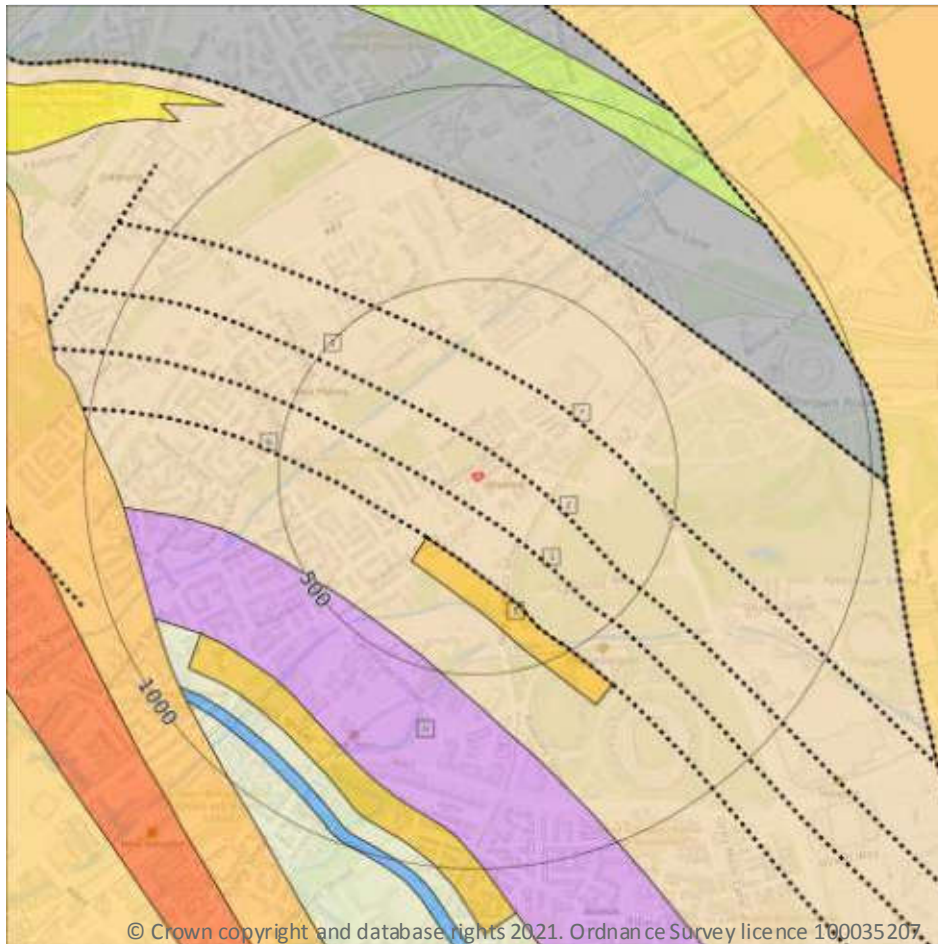
Records within 50m**0**

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

3

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 137**

ID	Location	LEX Code	Description	Rock age
1	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	192m SW	OPS-SDST	OPENSHAW SANDSTONE - SANDSTONE	WESTPHALIAN
8	445m SW	ETM-STMD	ETRURIA FORMATION - SANDSTONE AND MUDSTONE	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

5

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.

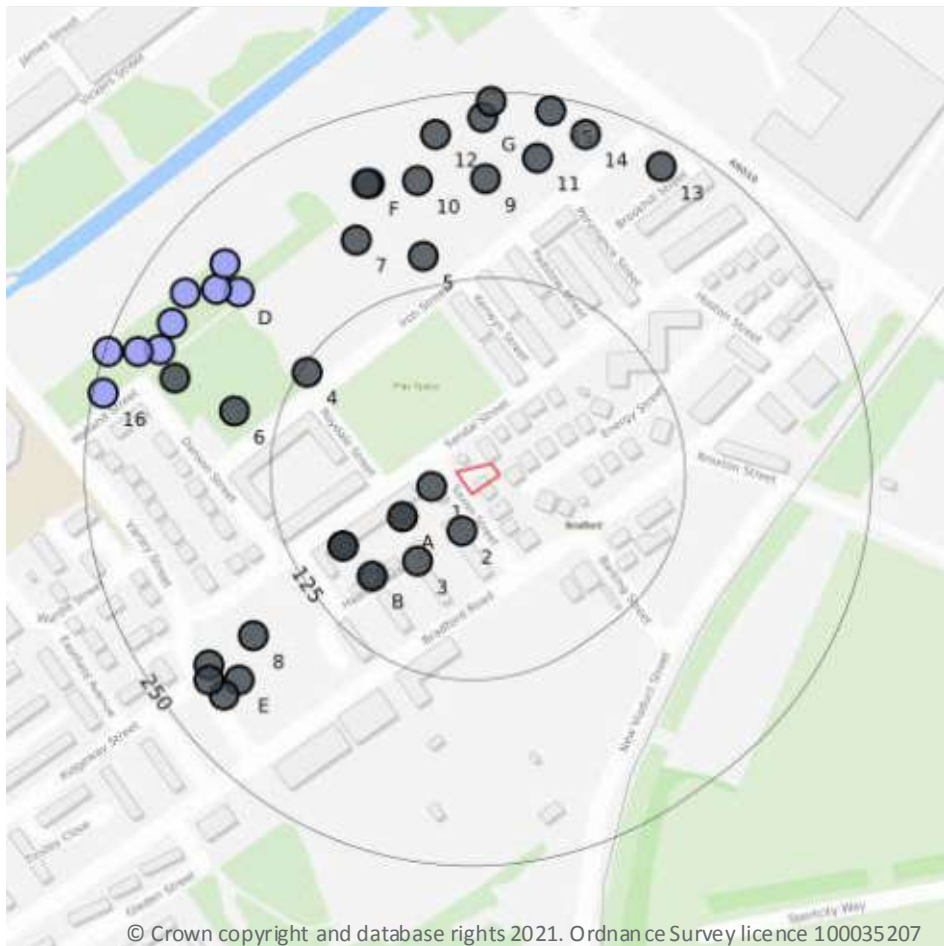
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 137**

ID	Location	Category	Description
2	58m NE	ROCK	Coal seam, inferred
3	65m SW	ROCK	Coal seam, inferred
4	192m SW	ROCK	Coal seam, inferred
6	194m SW	ROCK	Coal seam, inferred
7	256m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

40

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

Features are displayed on the Boreholes map on **page 139**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	19m SW	386320 399190	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 205	-	Y	N/A
2	26m S	386340 399160	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 202	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	47m SW	386300 399170	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 201	-	Y	N/A
A	47m SW	386300 399170	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 202	-	Y	N/A
3	58m SW	386310 399140	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 204	-	Y	N/A
B	87m SW	386280 399130	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 204	-	Y	N/A
B	87m SW	386280 399130	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 205	-	Y	N/A
C	91m SW	386260 399150	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 201	-	Y	N/A
C	91m SW	386260 399150	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 203	-	Y	N/A
C	91m SW	386260 399150	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 203	-	Y	N/A
4	121m NW	386236 399267	Miles Platting TP5W01	-	Y	N/A
5	146m N	386314 399345	Miles Platting TP707	-	Y	N/A
6	155m W	386187 399241	Miles Platting BH5W02	-	Y	N/A
7	170m NW	386269 399356	Miles Platting BH5W01	-	Y	N/A
8	175m SW	386200 399090	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 102	-	Y	N/A
D	190m NW	386190 399321	COLESHILL STREET MANCHESTER 2	10.0	N	15637515
9	192m N	386356 399397	Miles Platting TP704	-	Y	N/A
10	197m N	386310 399396	Miles Platting TP706	-	Y	N/A
D	200m W	386147 399263	Miles Platting TP5W02	-	Y	N/A
E	201m SW	386190 399060	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 101	-	Y	N/A
F	203m N	386278 399394	Miles Platting BH702A	-	Y	N/A
D	203m NW	386175 399323	COLESHILL STREET MANCHESTER 3	6.2	N	15637516
F	203m N	386276 399394	Miles Platting BH702	-	Y	N/A
11	208m N	386391 399411	Miles Platting TP702	-	Y	N/A
D	209m NW	386181 399340	COLESHILL STREET MANCHESTER 1	6.1	N	15637514

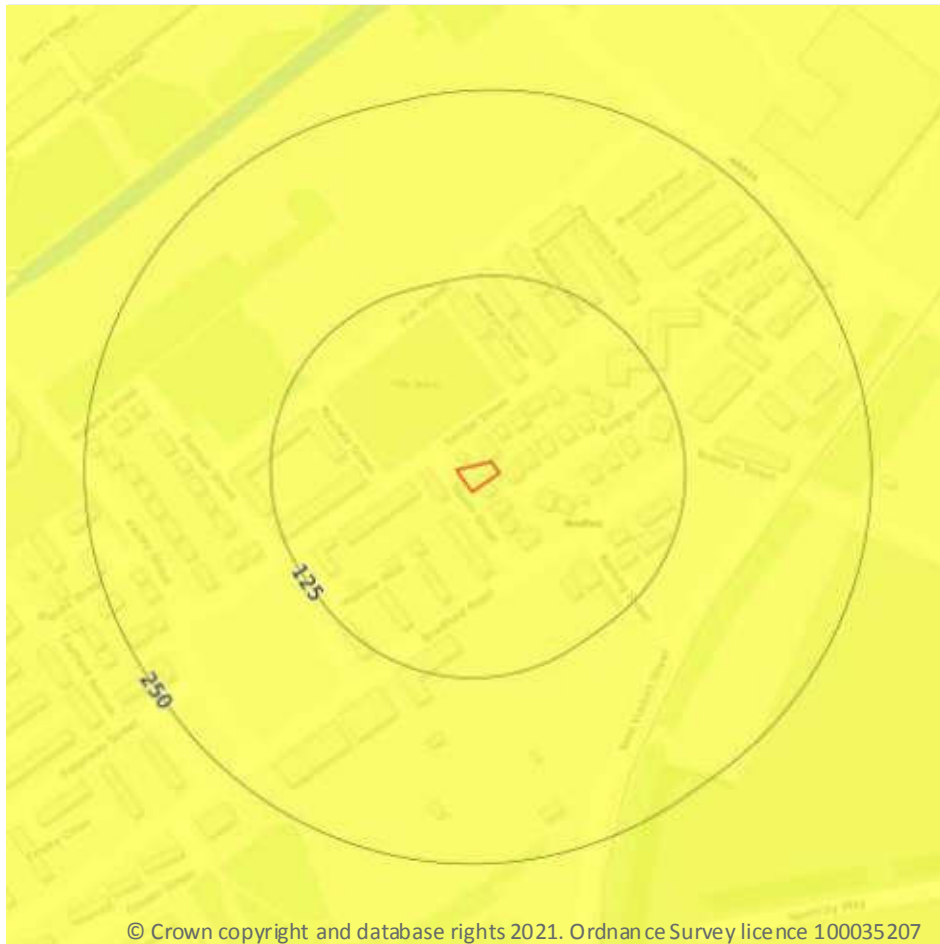


ID	Location	Grid reference	Name	Length	Confidential	Web link
E	211m SW	386170 399070	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 102	-	Y	N/A
E	215m SW	386180 399050	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER 101	-	Y	N/A
D	216m W	386137 399282	COLESHILL STREET MANCHESTER 6	6.0	N	15637519
D	216m NW	386145 399300	COLESHILL STREET MANCHESTER 5	10.0	N	15637518
E	217m SW	386170 399060	SANDAL COURT AND SANDAL STREET ANCOATS MANCHESTER TP 102A	-	Y	N/A
D	218m NW	386154 399320	COLESHILL STREET MANCHESTER 4	6.0	N	15637517
12	225m N	386322 399427	Miles Platting TP705	-	Y	N/A
D	229m W	386122 399281	COLESHILL STREET MANCHESTER 7	6.0	N	15637520
13	230m NE	386474 399405	Miles Platting BH5E01	-	Y	N/A
14	230m N	386423 399427	Miles Platting BH701	-	Y	N/A
G	233m N	386354 399438	Miles Platting TP703	-	Y	N/A
15	241m N	386400 399443	Miles Platting TP701	-	Y	N/A
16	243m W	386099 399253	COLESHILL STREET MANCHESTER 9	10.0	N	15637522
G	244m N	386360 399449	Miles Platting RBH3	-	Y	N/A
D	248m W	386102 399281	COLESHILL STREET MANCHESTER 8	6.0	N	15637521

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

17.1 Shrink swell clays

Records within 50m

1

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

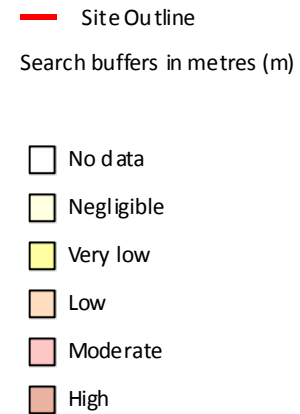
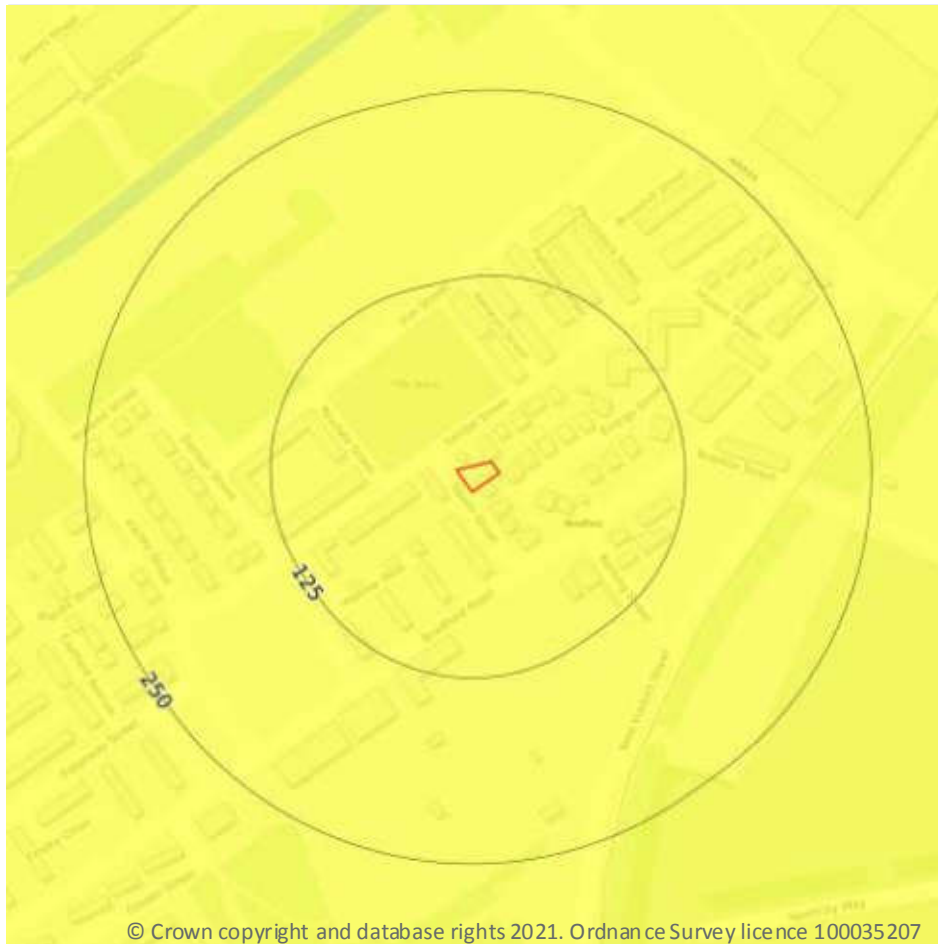
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 142**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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.

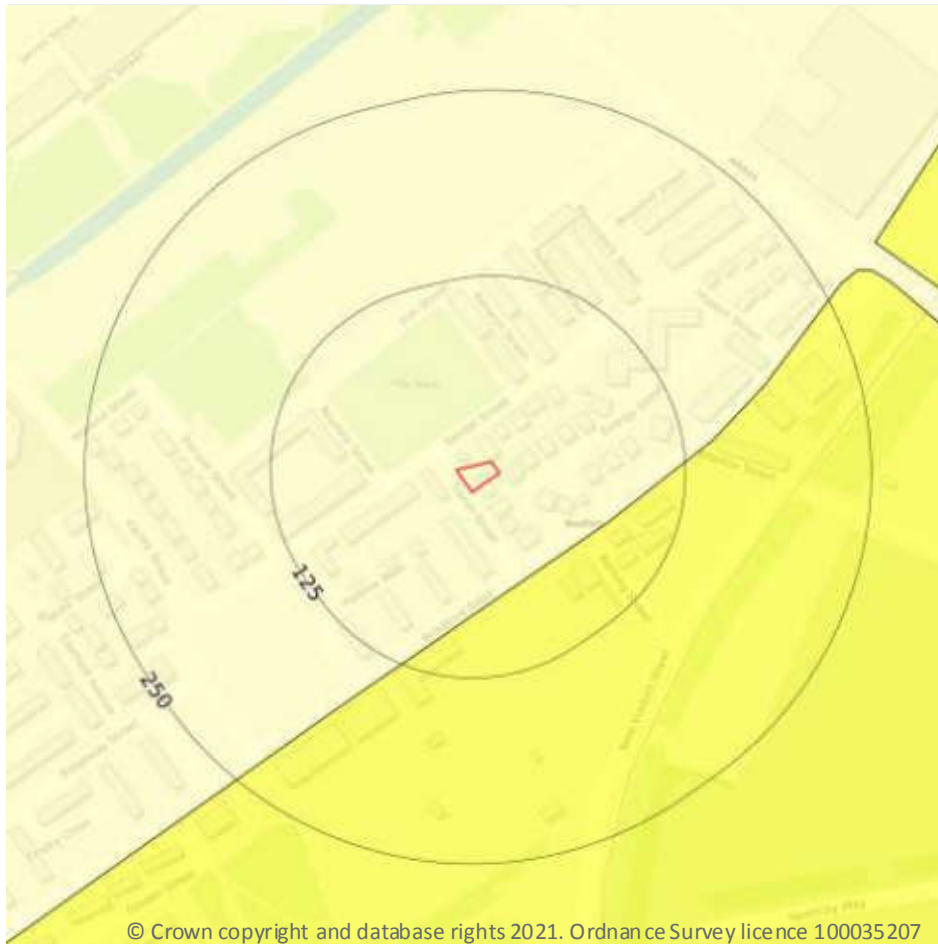
Features are displayed on the Natural ground subsidence - Running sands map on **page 143**

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

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.

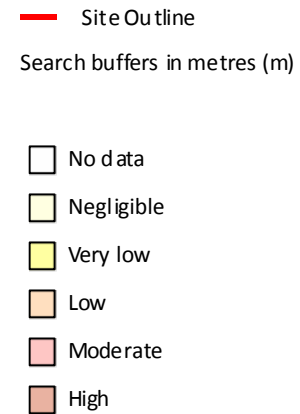
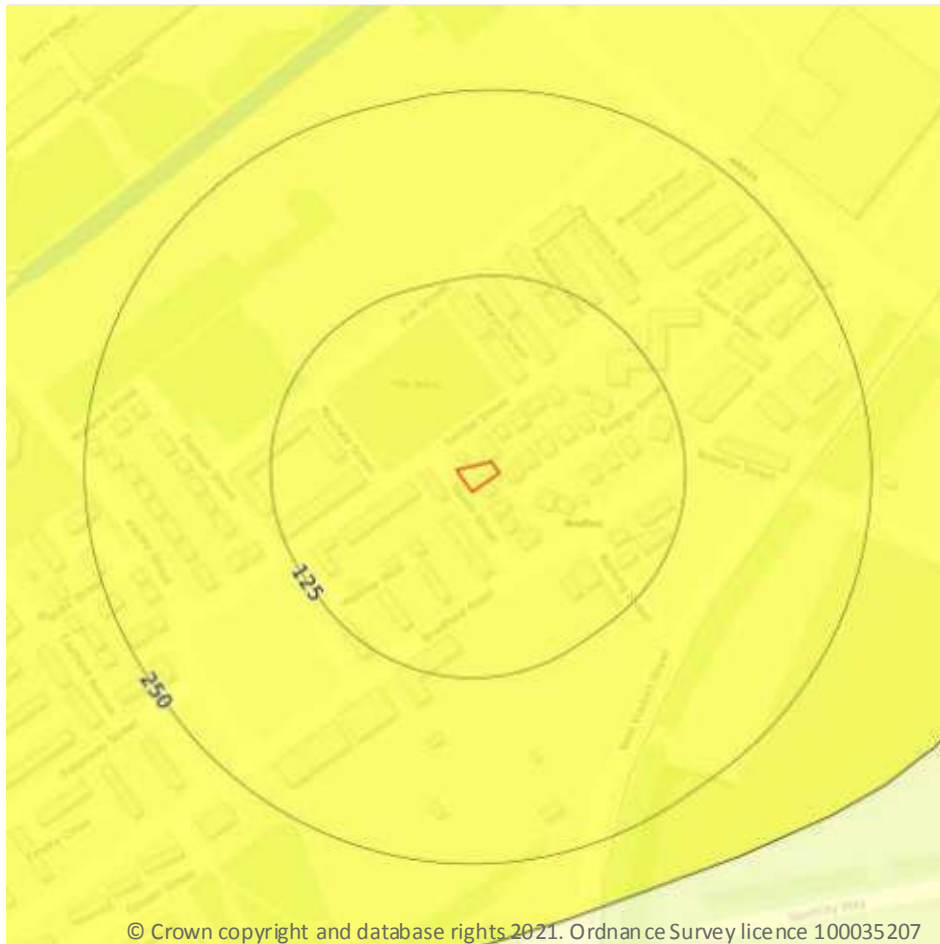
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 144**

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



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.

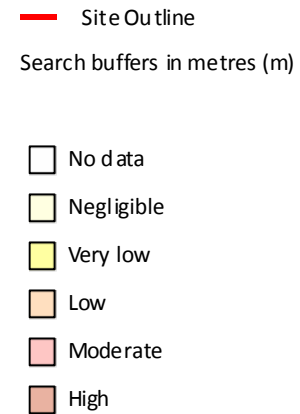
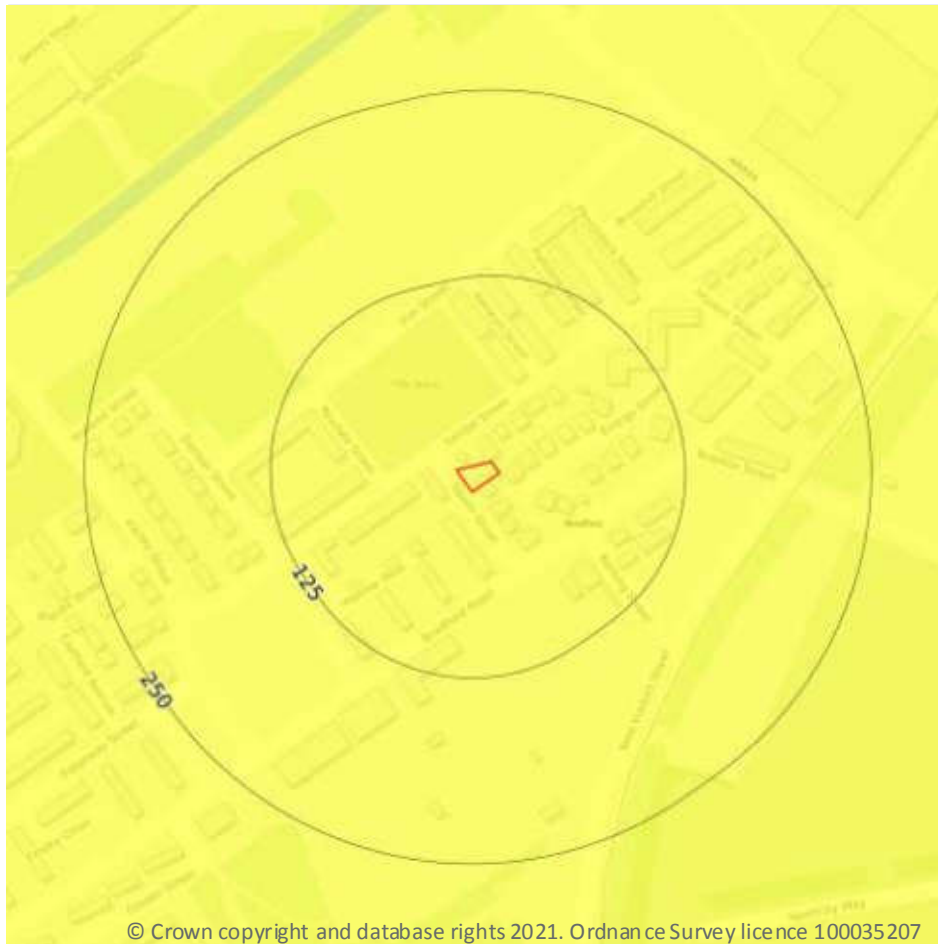
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 145**

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



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.

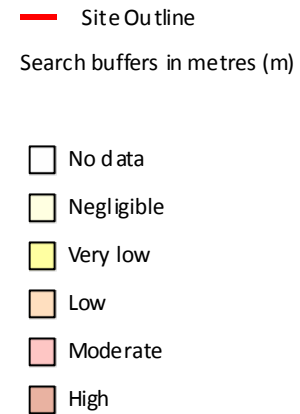
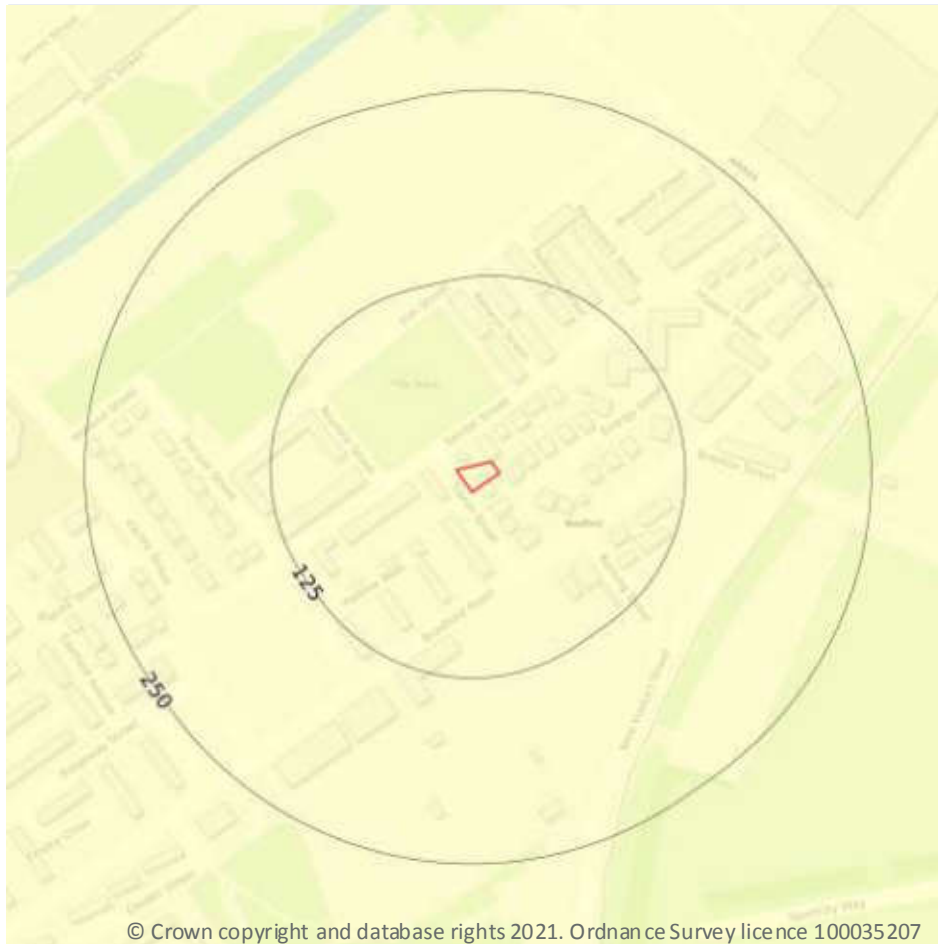
Features are displayed on the Natural ground subsidence - Landslides map on **page 146**

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



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 147**

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



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Details	Description
E	315m NE	Name: Miles Platting Brick Works Address: Miles Platting, MANCHESTER, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	318m S	Name: Glenden Hall Brick Field Address: Miles Platting, MANCHESTER, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

13

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Land Use	Year of mapping	Mapping scale
1	7m N	Coal Pits	1851	1:10560
A	74m SE	Brick Works	1891	1:10560
A	84m SE	Unspecified Pit	1906	1:10560
2	111m E	Coal Pits	1851	1:10560
B	134m S	Unspecified Pit	1938	1:10560
B	134m S	Unspecified Pit	1933	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
3	178m NW	Pond	1891	1:10560
B	178m S	Unspecified Pit	1938	1:10560
B	178m S	Unspecified Pit	1933	1:10560
4	200m E	Refuse Heap	1891	1:10560
5	201m E	Pond	1851	1:10560
6	226m N	Pond	1891	1:10560
C	234m SW	Brick Field	1851	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Land Use	Year of mapping	Mapping scale
-	918m SE	Colliery	1923	1:10560
-	920m SE	Colliery	1921	1:10560
-	920m SE	Colliery	1906	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

2

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Name	Commodity	Class	Likelihood
11	463m SW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	920m S	Ardwick	Limestone - Ardwick	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .



This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

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

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

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.



18.13 Clay mining

Records on site

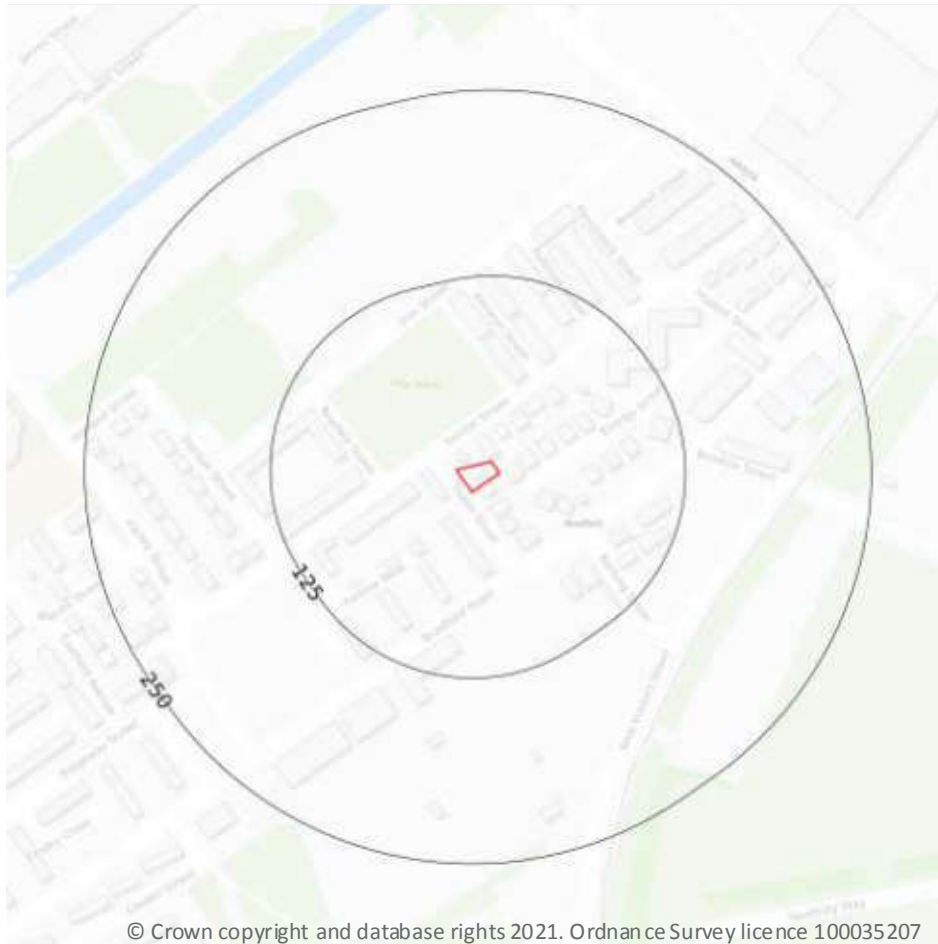
0

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

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



19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75 m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 155**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

1

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

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).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	52	9.1	54	37	0.3	101	31	43	5
On site	53	9.3	51	35	0.3	92	31	44	5
35m NE	39	6.8	52	36	0.3	86	28	37	6
35m SE	42	7.3	56	38	0.3	100	29	38	5
36m SW	56	9.8	46	32	0.3	102	24	46	4
36m NW	60	10.5	49	34	0.3	94	25	47	5

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headquarters
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

26

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.

Features are displayed on the Railway infrastructure and projects map on **page 158**

Location	Land Use	Year of mapping	Mapping scale
143m SE	Railway Sidings	1978	10000
153m SE	Railway	1891	-
154m SE	Railway	1905	-
159m SE	Railway Sidings	1923	10560
160m SE	Railway Sidings	1931	2500
161m SE	Railways	1922	-
161m SE	Railway Sidings	1938	10560
161m SE	Railway Sidings	1933	10560
161m SE	Railway Sidings	1921	10560
161m SE	Railway Sidings	1906	10560
161m SE	Railway Sidings	1893	2500
163m SE	Railway Sidings	1968	10560
164m SE	Railway Sidings	1908	2500
166m SE	Railway Sidings	1891	10560
170m SE	Railway Sidings	1970	2500
171m SE	Railway Sidings	1949	2500
175m SE	Railway Sidings	1922	2500



Location	Land Use	Year of mapping	Mapping scale
180m SE	Railway Sidings	1956	10560
185m SE	Railway Sidings	1968	1250
201m E	Railways	1908	-
201m E	Railways	1934	-
212m SE	Railway Sidings	1958	2500
215m SE	Railway Sidings	1948	1250
215m SE	Railway Sidings	1955	1250
218m SE	Overhead Tramway Sidings	1949	2500
239m SE	Railway Sidings	1955	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

7

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 158**



Location	Name	Type
165m SE		rail
169m SE		rail
169m SE	Not given	Multi Track
169m SE	Not given	Multi Track
171m SE	Not given	Multi Track
196m SE	Not given	Multi Track
204m E	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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SMALL SCALE SURVEY PLANS



Site Details:

1650000 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 39375

Map Name: County Series

Map date: 1848

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1845
Revised NIA
Edition 1848
Copyright NIA
Levelled NIA



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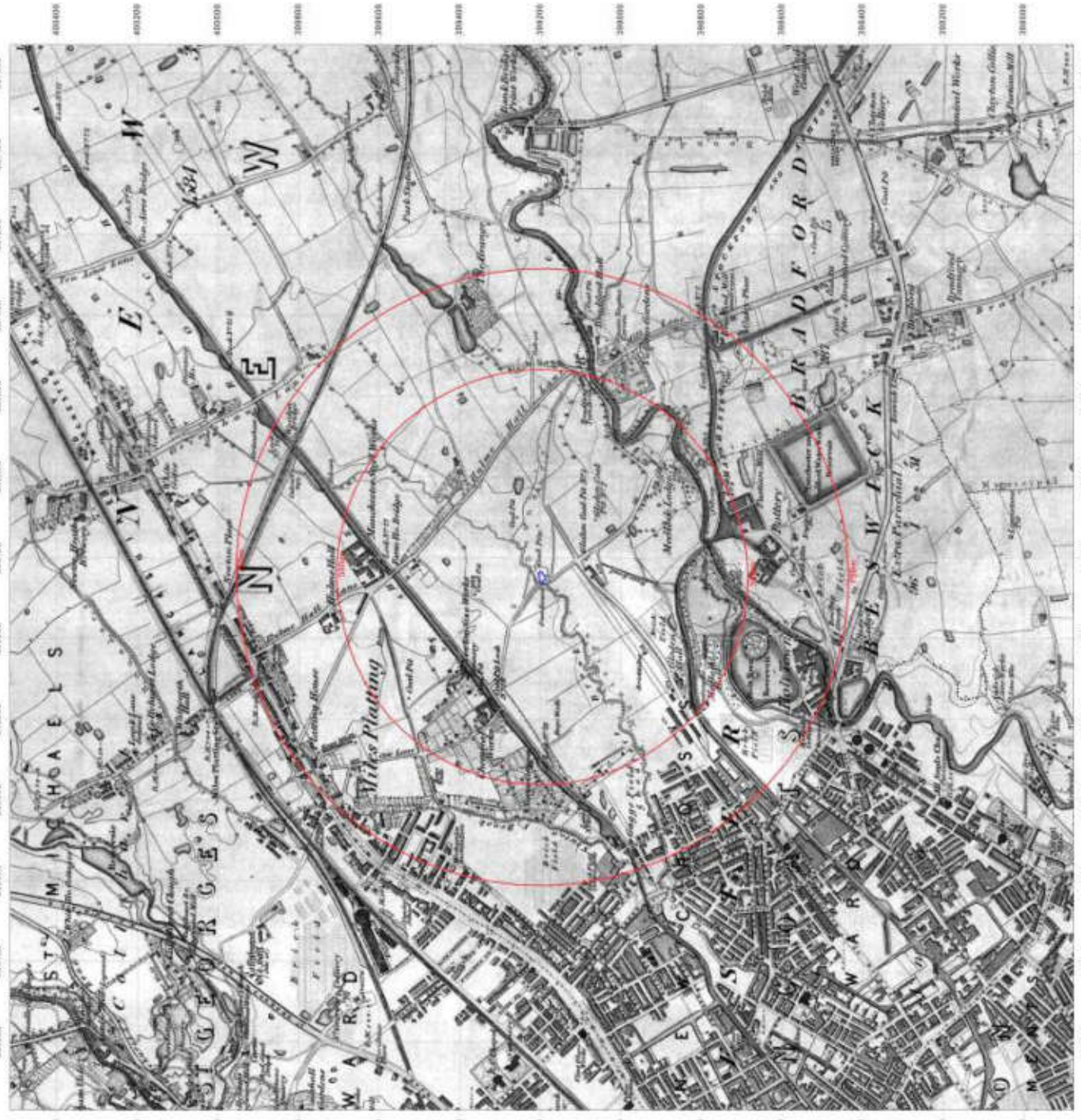


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Site Details:

1650000 Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393750

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1891	Surveyed 1890
Revised 1891	Revised 1890
Edition 1891	Edition 1890
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A



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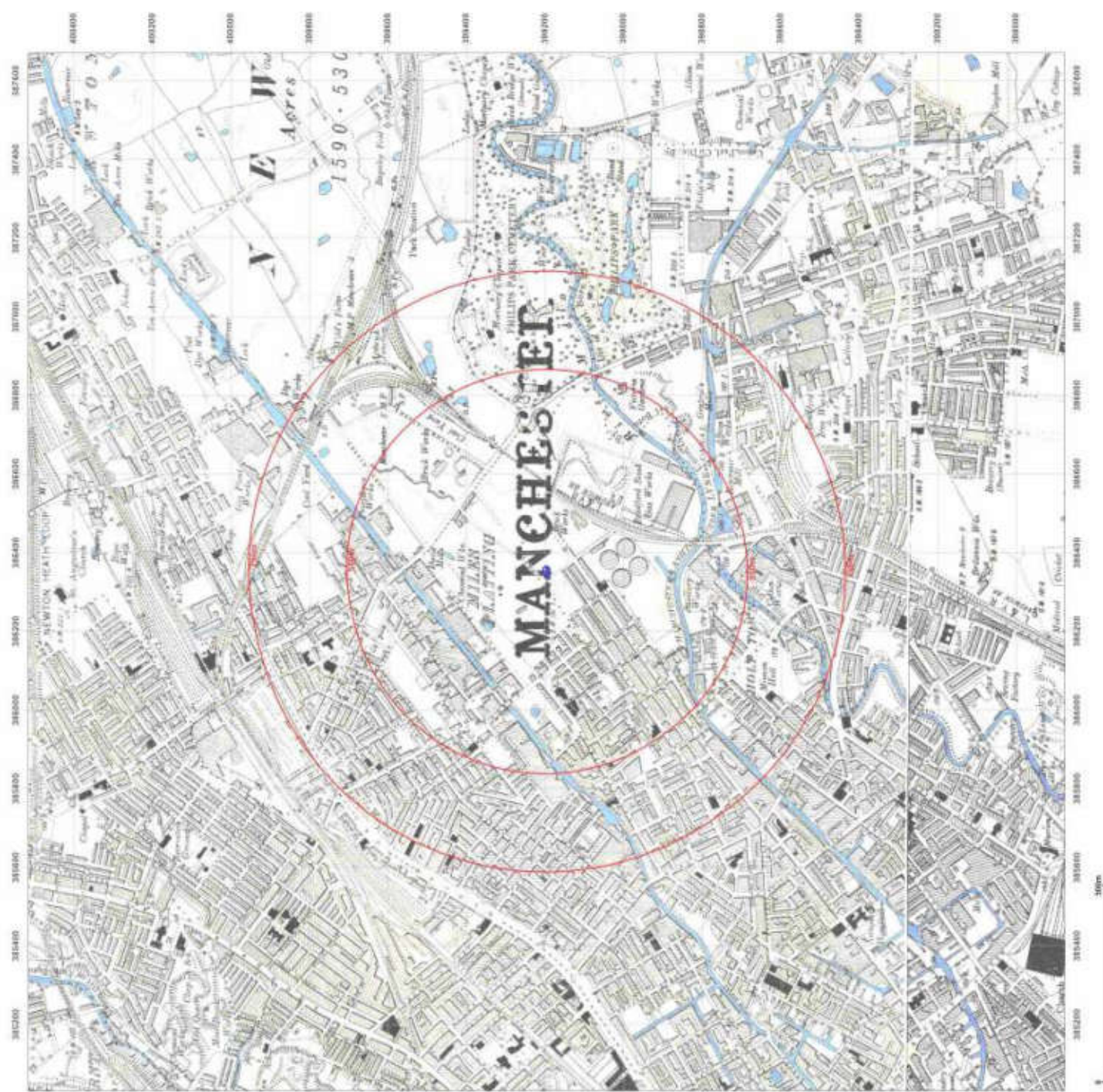


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1650000 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393755

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1944 Revised 1906 Edition 1906 Copyright N/A Levelled N/A	Surveyed 1944 Revised 1905 Edition 1905 Copyright N/A Levelled N/A
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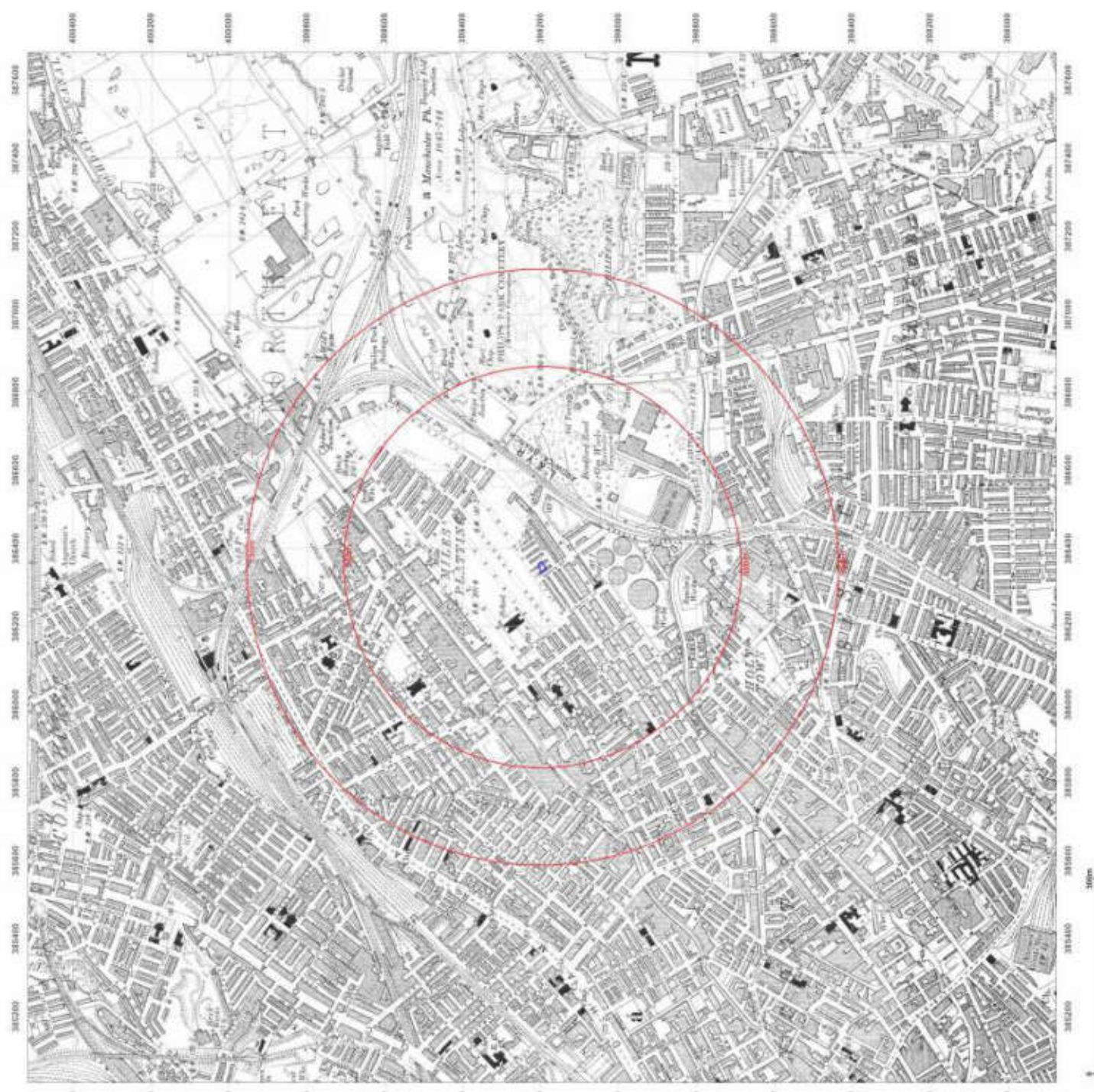


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393755

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1944 Revised 1921 Edition 1923 Copyright N/A Levelled 1906	Surveyed 1944 Revised 1915 Edition 1923 Copyright N/A Levelled 1915
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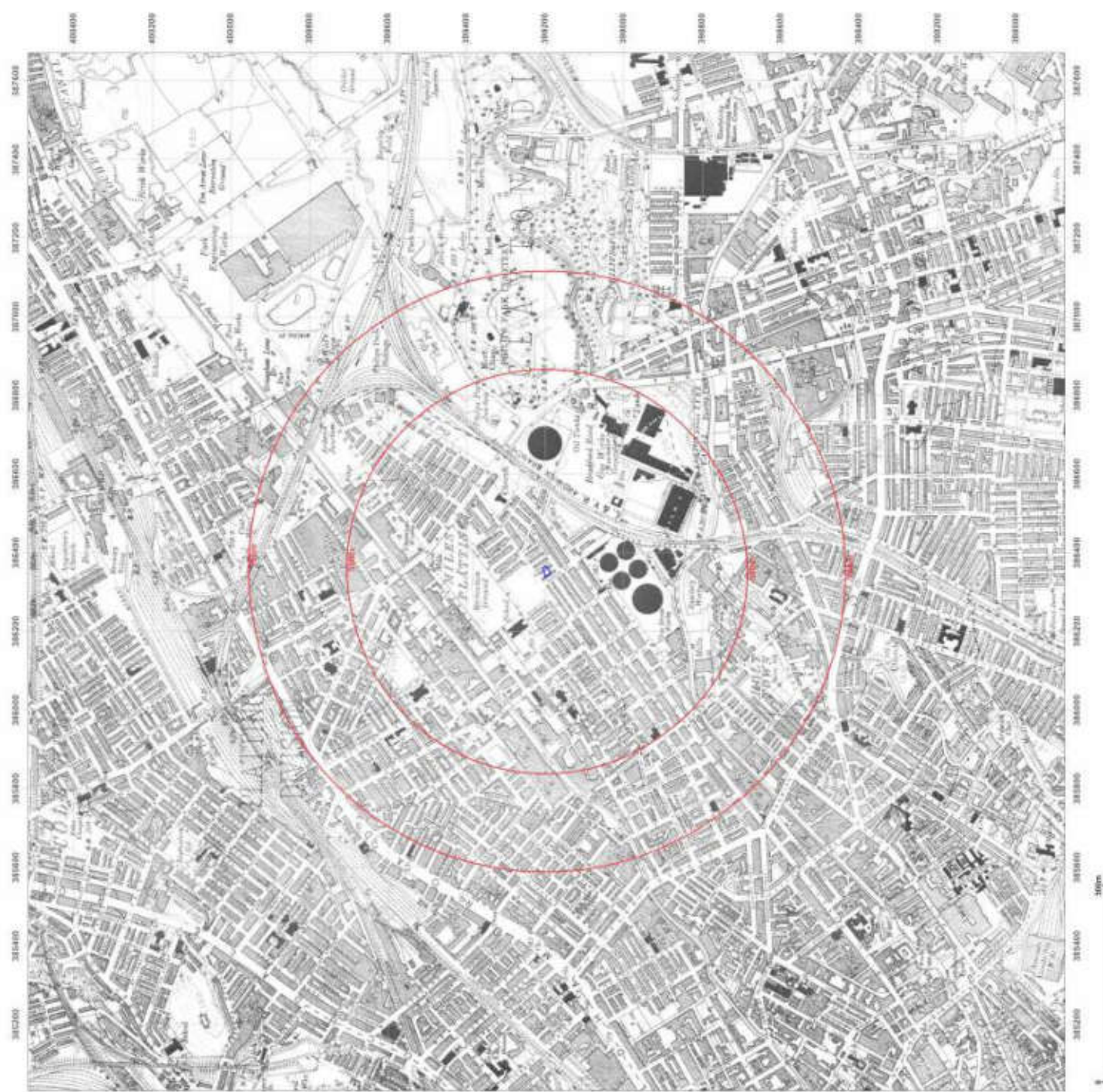


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393755

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1844
Revised 1916
Edition 1923
Copyright NIA
Levelled 1915



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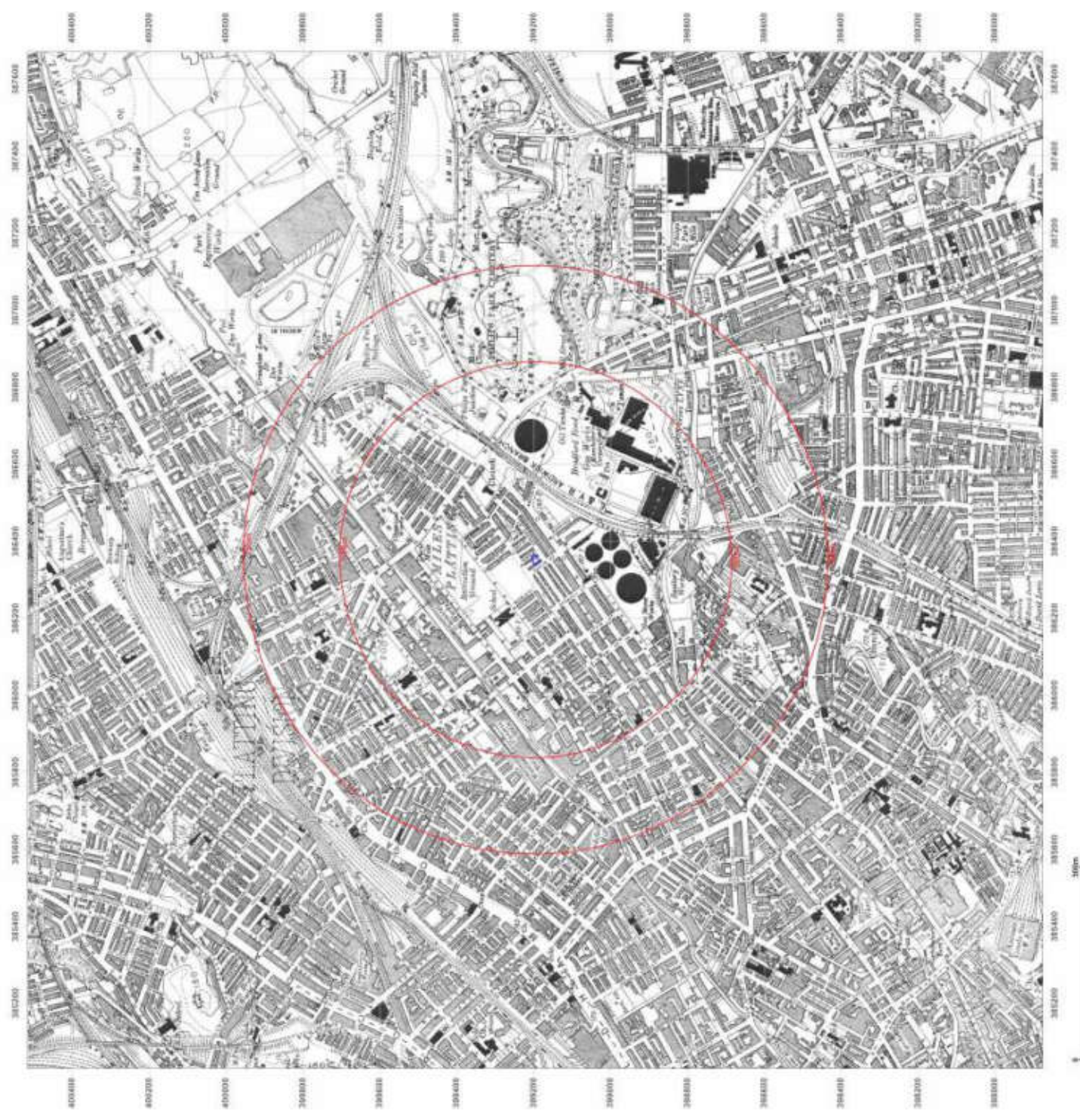


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: County Series

Map date: 1933-1934

Scale: 1:10,500

Printed at 1:10,500



Surveyed 1944 Revised 1933 Edition 1933 Copyright N/A Levelled 1927	Surveyed 1944 Revised 1934 Edition 1934 Copyright N/A Levelled 1927
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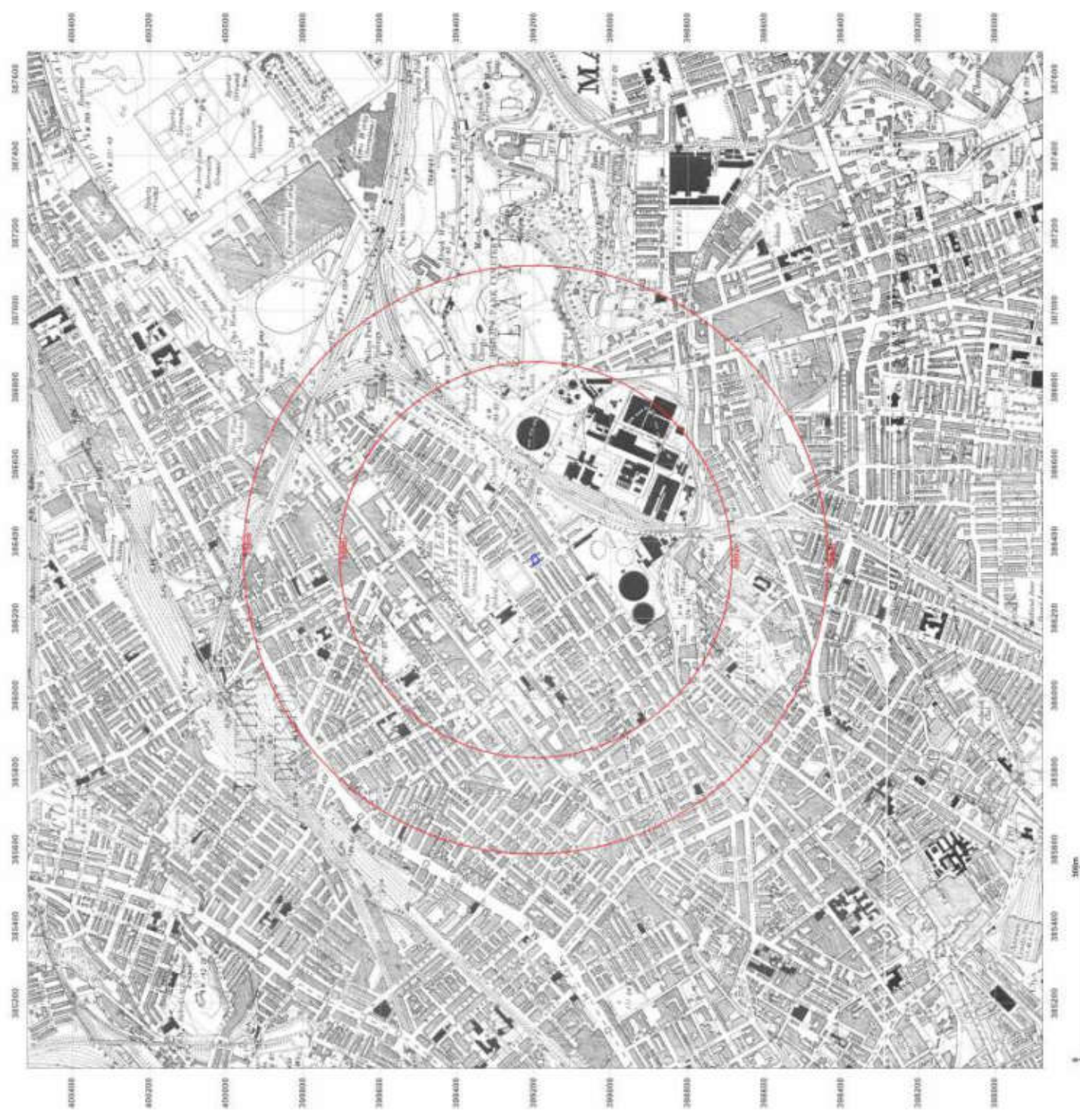


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 39375

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1944 Revised 1938 Edition 1938 Copyright N/A Levelled 1927	Surveyed 1944 Revised 1938 Edition 1938 Copyright N/A Levelled 1927
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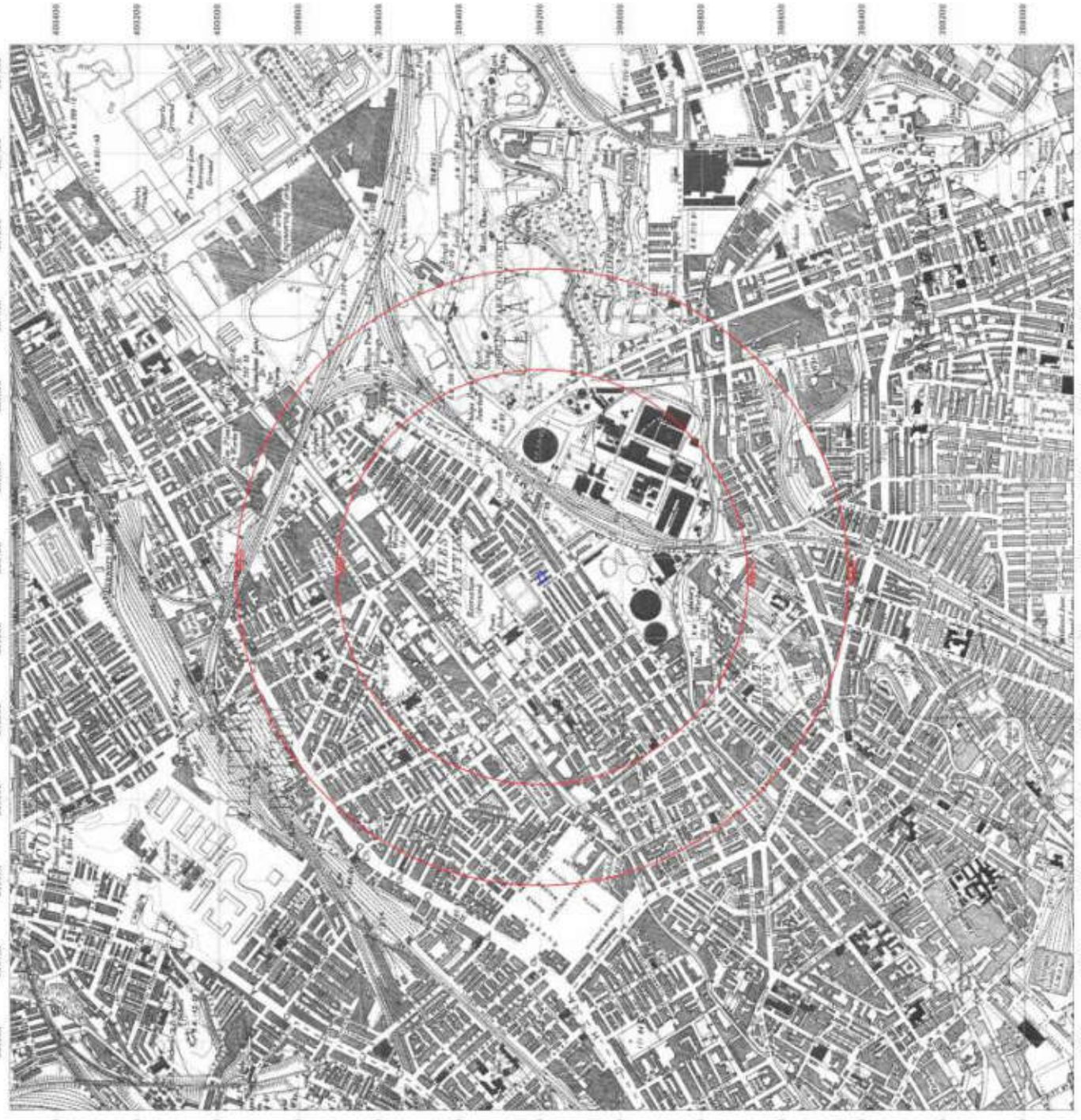


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M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at 1:10,560



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

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Revised 1956
Edition N/A
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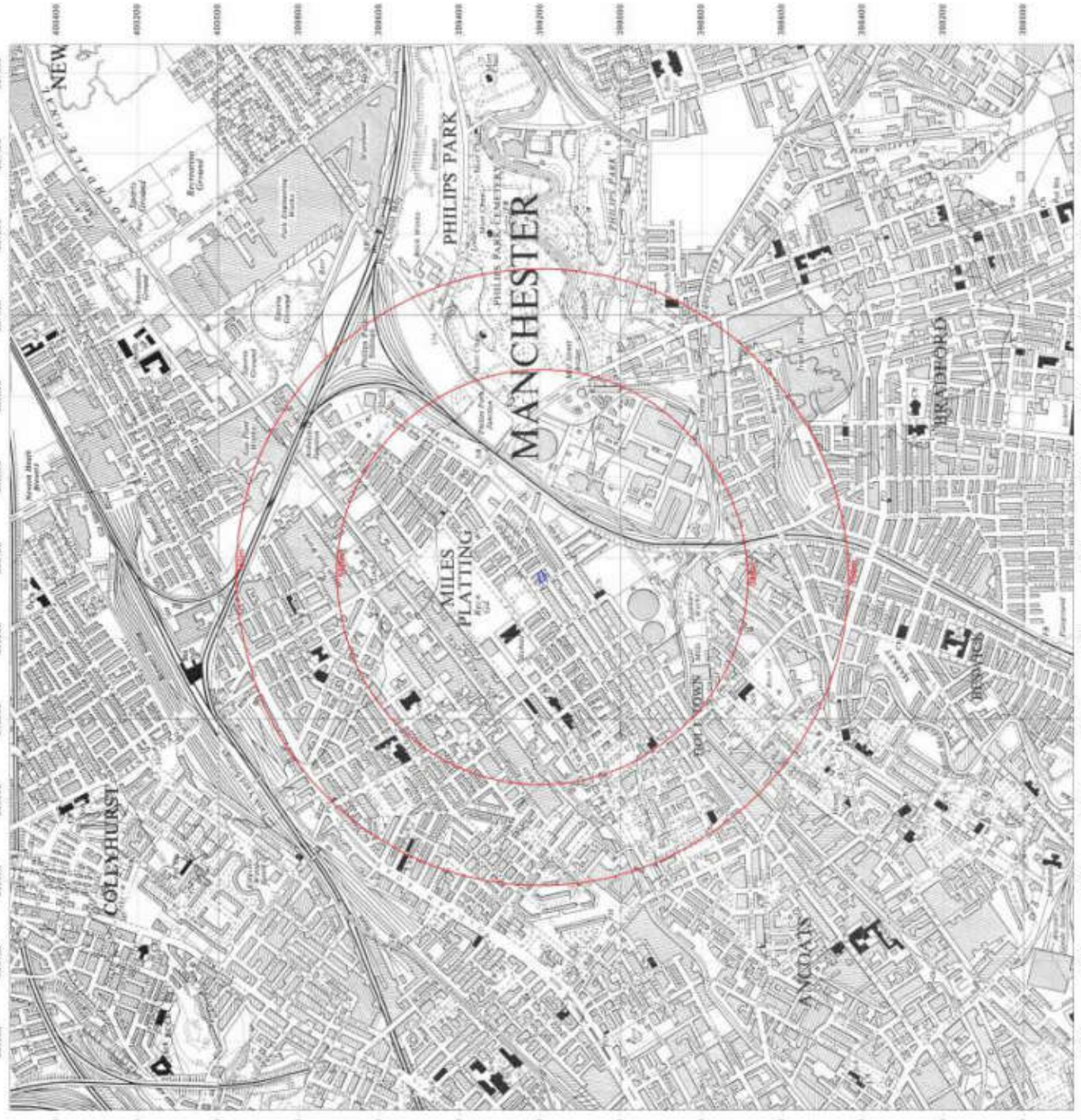


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165, 500, 700 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393755

Map Name: Provisional

Map date: 1966-1968

Scale: 1:10,560

Printed at 1:10,560



Surveyed 1966
Revised 1968
Edition N/A
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Surveyed 1966
Revised 1968
Edition N/A
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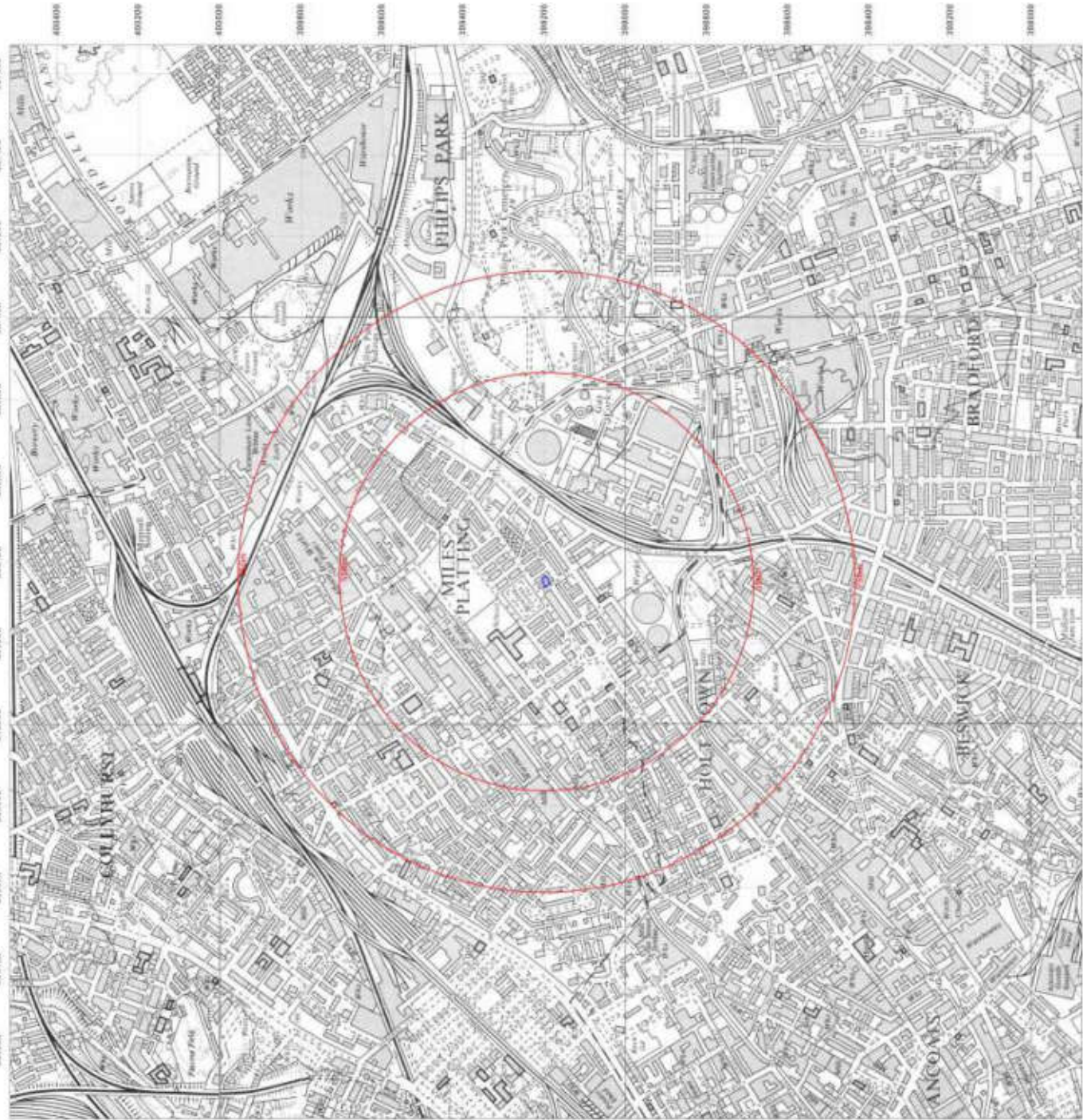


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: National Grid

Map date: 1980-1981

Scale: 1:10,000

Printed at 1:10,000



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Edition N/A
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Surveyed 1978
Revised 1980
Edition N/A
Copyright 1981
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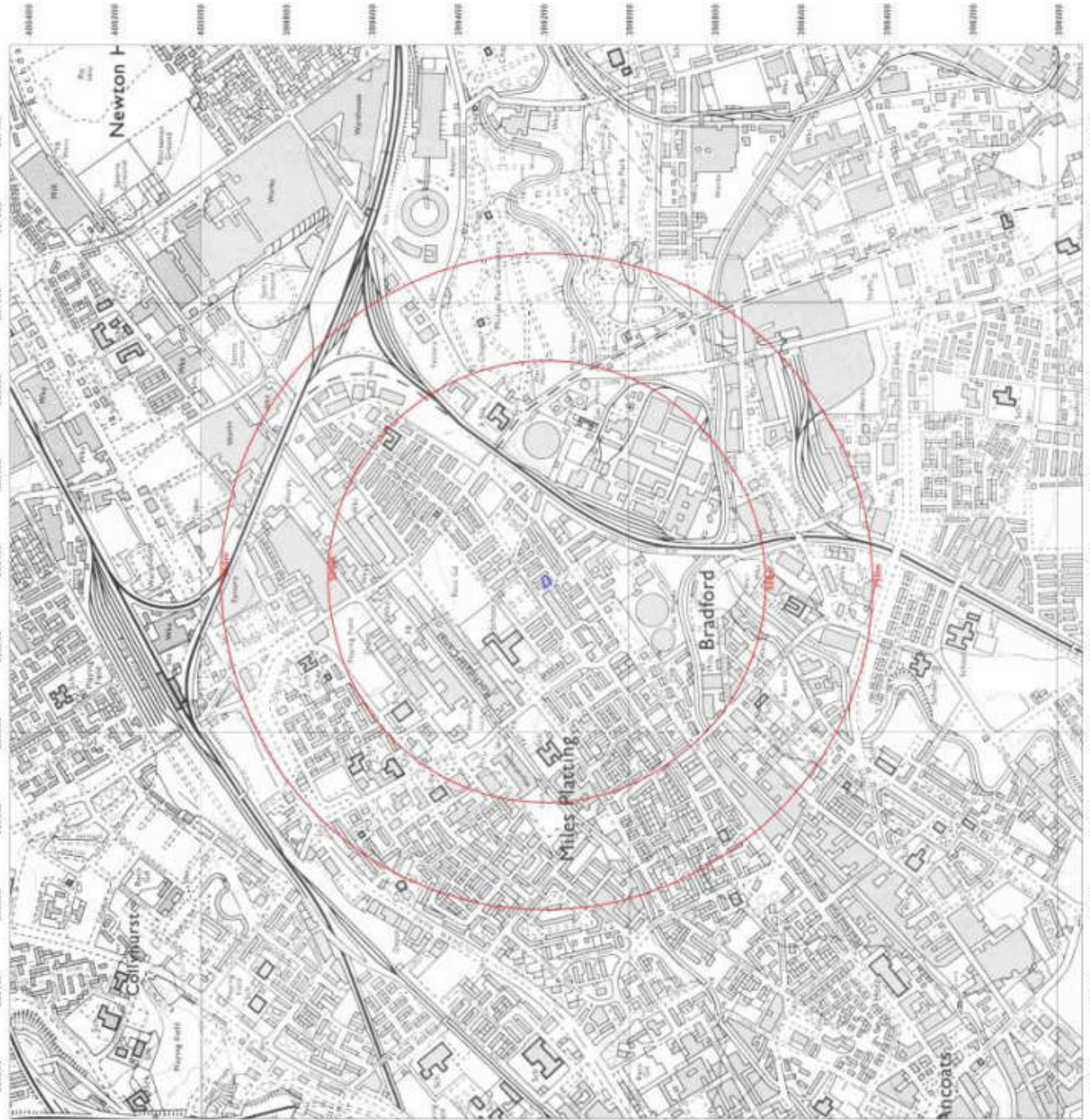


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Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: National Grid

Map date: 1985

Scale: 1:10,000

Printed at 1:10,000



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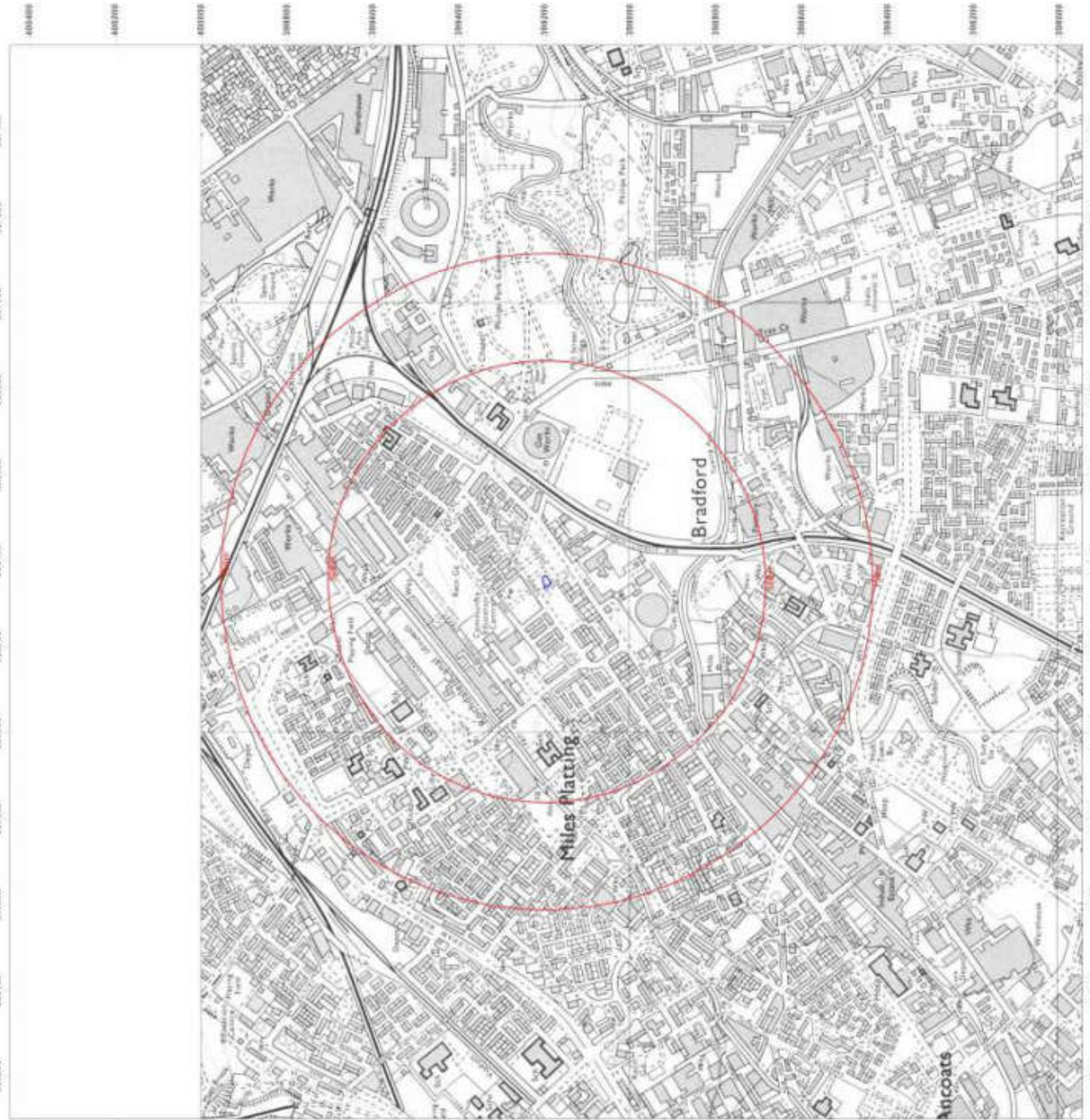


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Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: National Grid

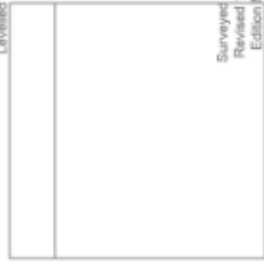
Map date: 1988-1991

Scale: 1:10,000

Printed at 1:10,000



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Revised 1988
Edition N/A
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Surveyed 1985
Revised 1991
Edition N/A
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Levelled 1991



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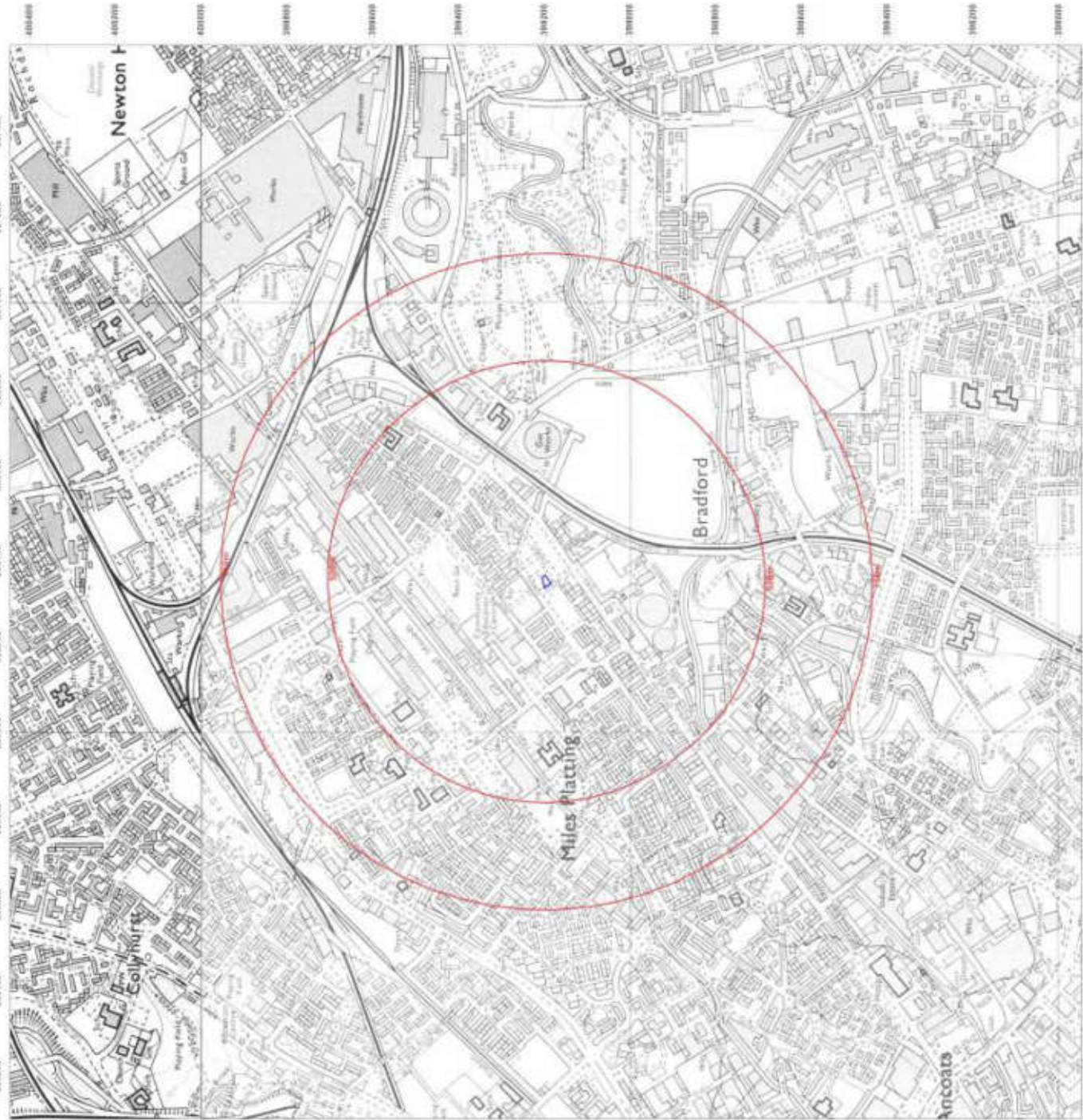


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M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at 1:10,000



2001



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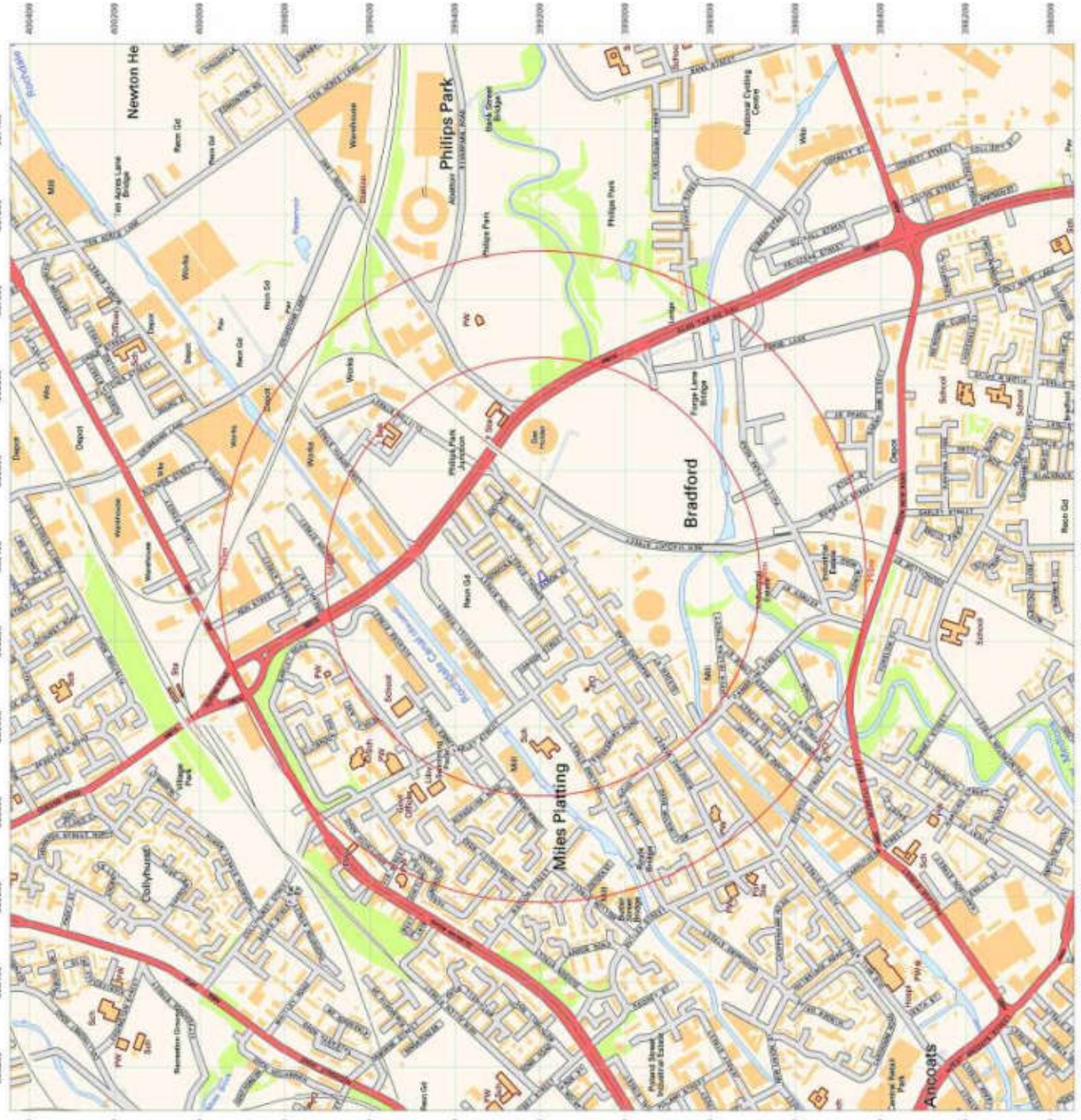


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M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at 1:10,000



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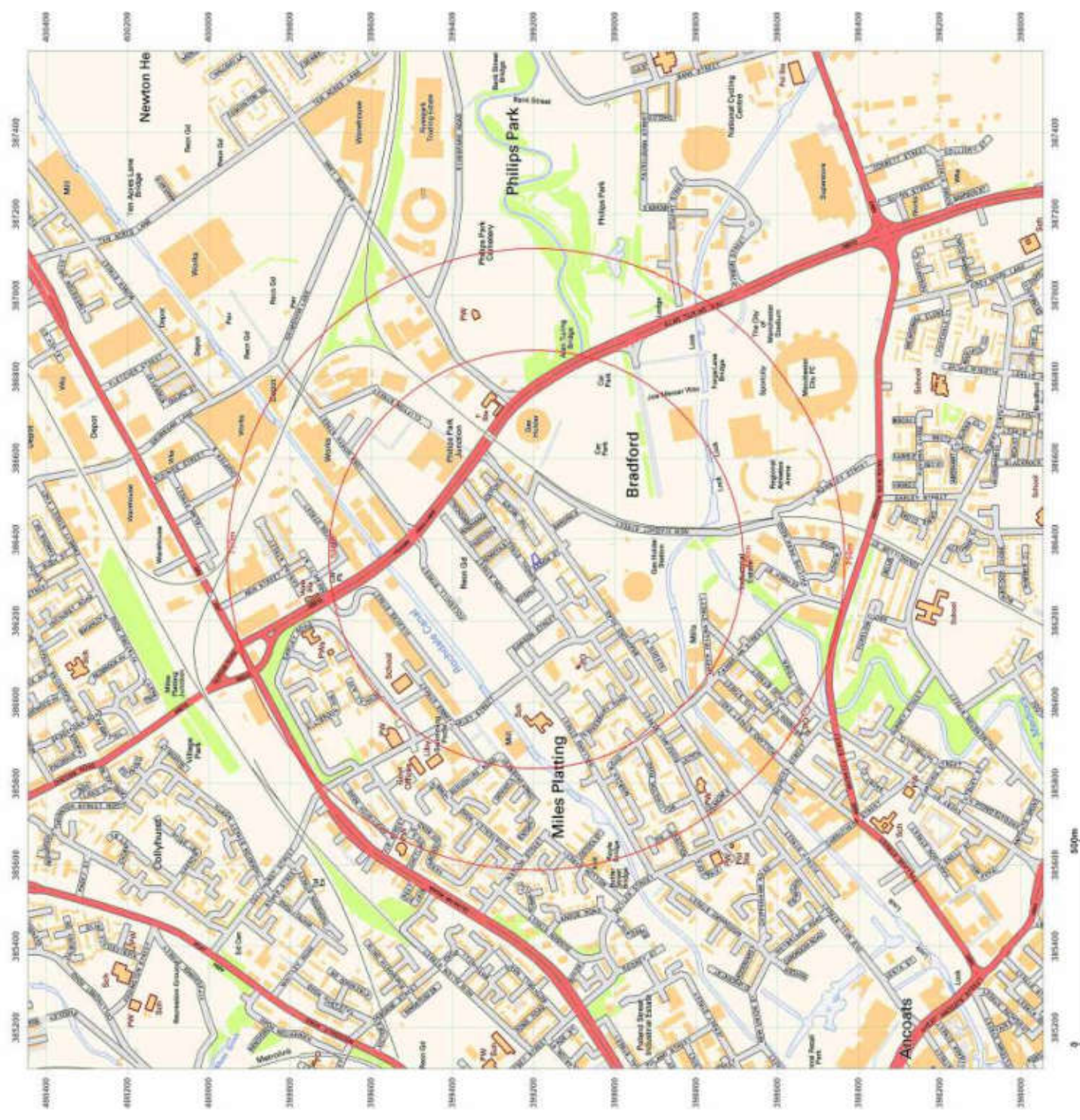


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Site Details:

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M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 393 95

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at 1:10,000



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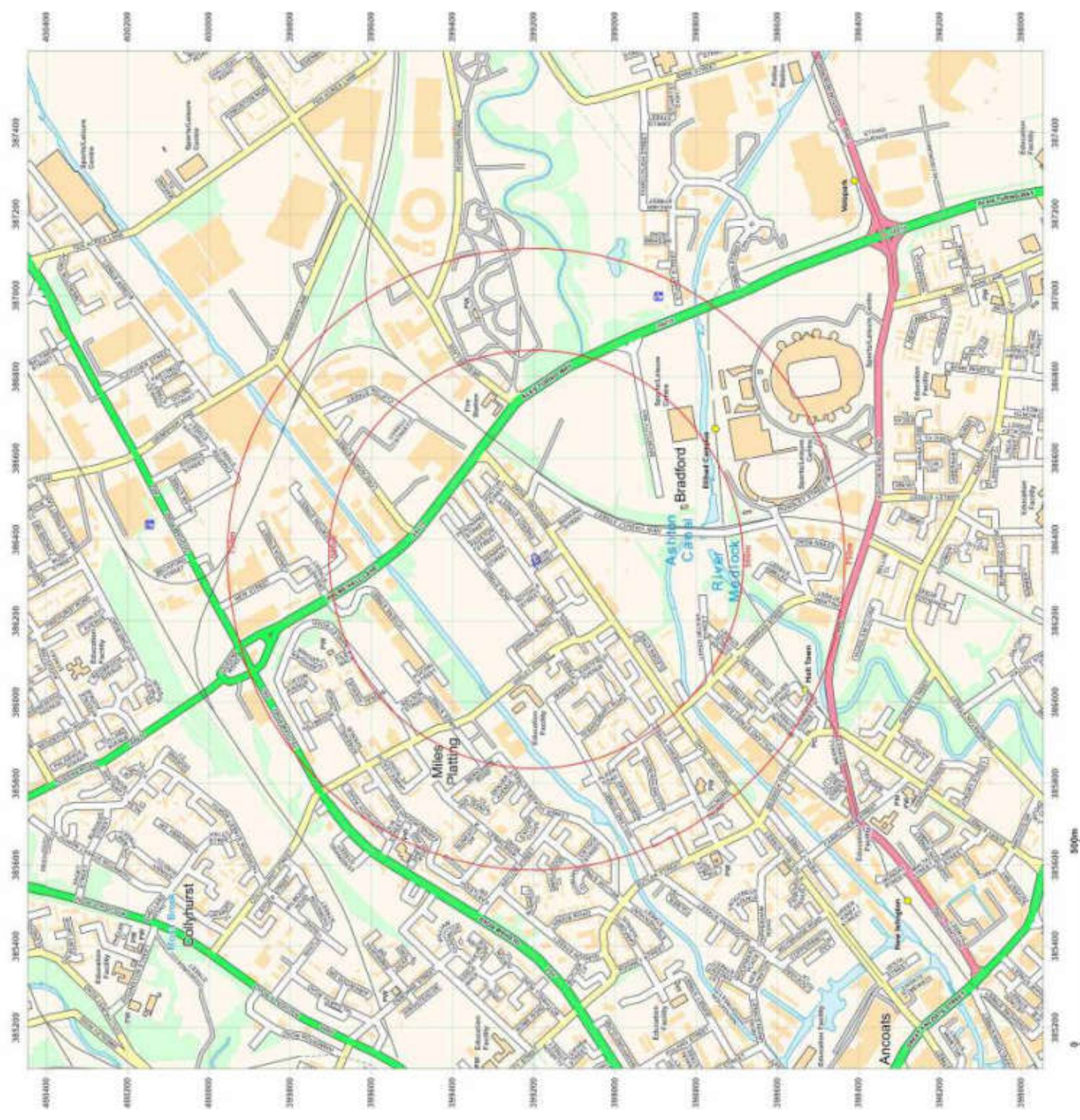


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LARGE SCALE SURVEY PLANS



Site Details:

16 Saxon Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: County Series Town Plan

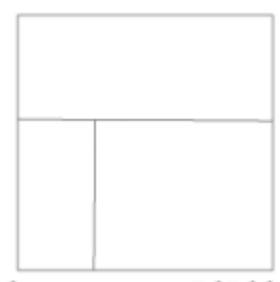
Map date: 1891

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 1891
Copyright N/A
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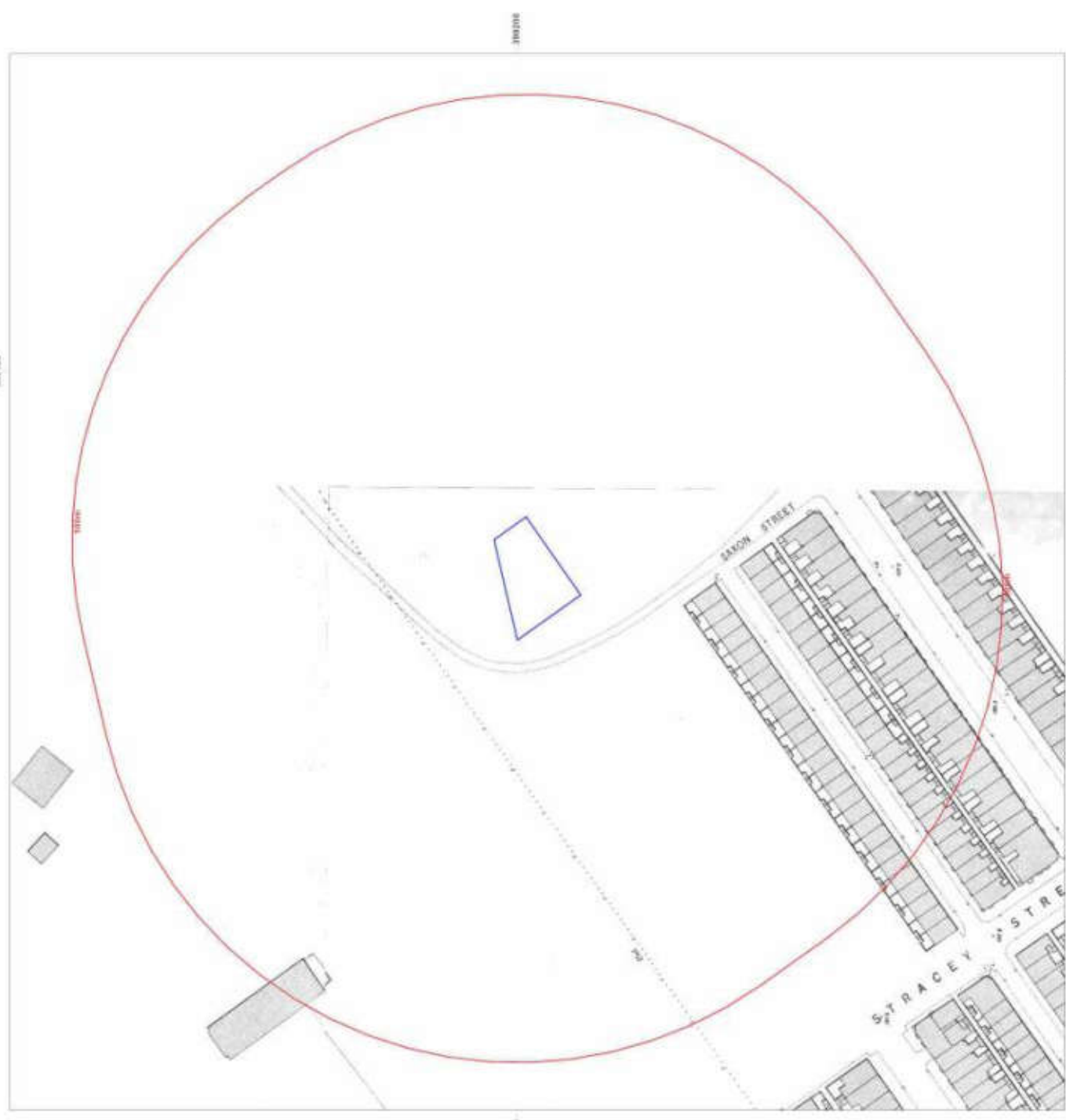


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Production date: 25 June 2021

Map legend available at:
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Site Details:

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M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-Z-99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at 1:2,500



Surveyed 1893
Revised N/A
Edition 1893
Copyright N/A
Levelled N/A



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Site Details:

1650000 Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 1937 95

Map Name: County Series

Map date: 1908

Scale: 1:2,500

Printed at 1:2,500



Surveyed 1891
Revised 1905
Edition 1908
Copyright N/A
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Site Details:

165, 500, 700 Street, Manchester, M14 0 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 193 95

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at 1:2,500



Surveyed 1922
Revised 1916
Edition 1922
Copyright N/A
Levelled 1915



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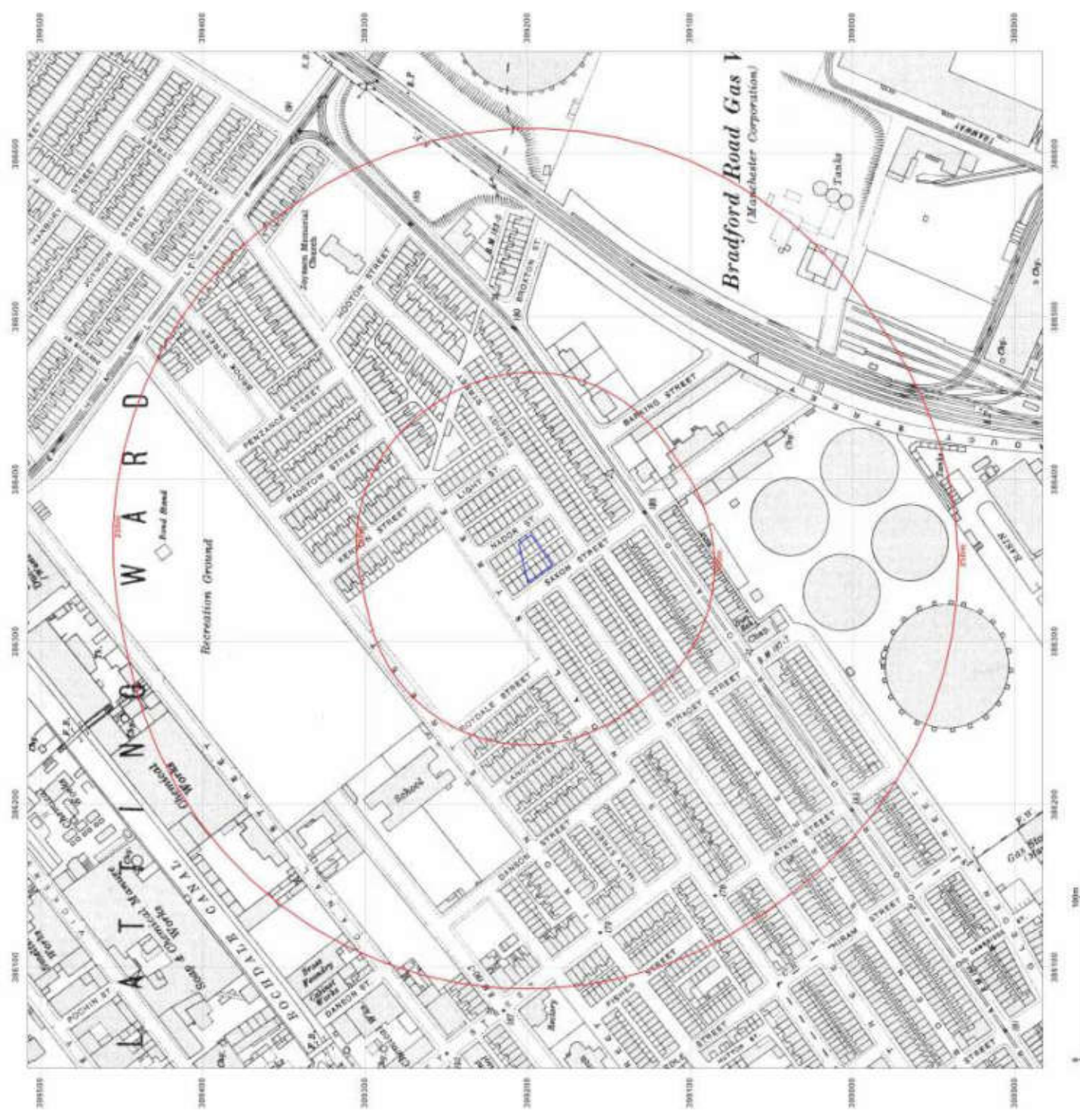


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Site Details:

165, 500, 100 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4: 99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: County Series

Map date: 1931

Scale: 1:2,500

Printed at 1:2,500



Surveyed 1873
Revised 1931
Edition N/A
Copyright N/A
Levelled 1927



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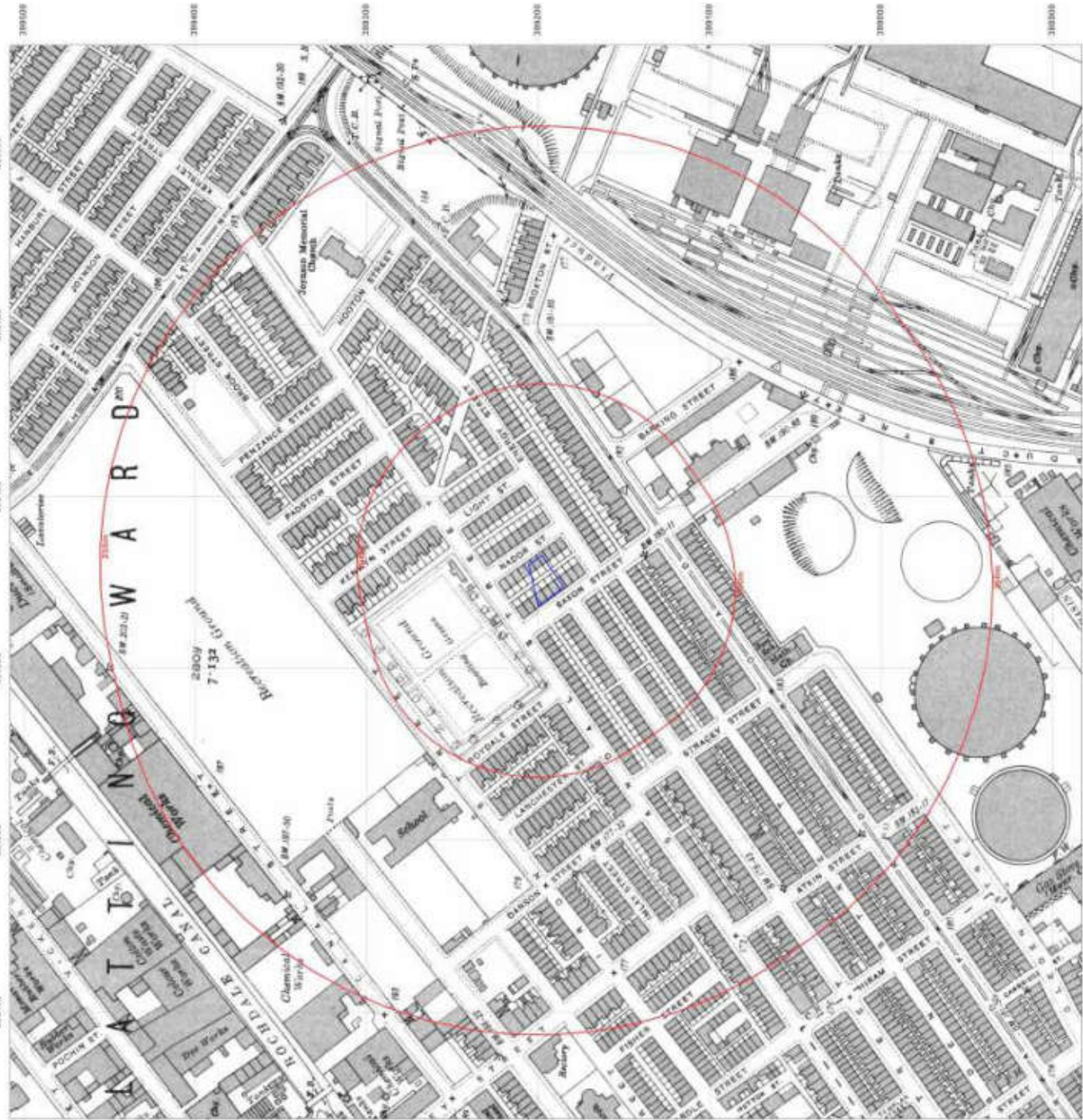


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100m



Site Details:

26 Saxton Street, Manchester,
M40 7BY

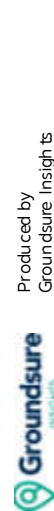
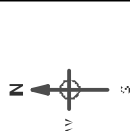
Client Ref: 1199
Report Ref: CMA 25-CM-972302-L-99-25062 IH15
Grid Ref: 386350, 393795

Map Name: National Grid

Map date: 1948

Scale: 1:1,250

Printed at 1:2,000 5



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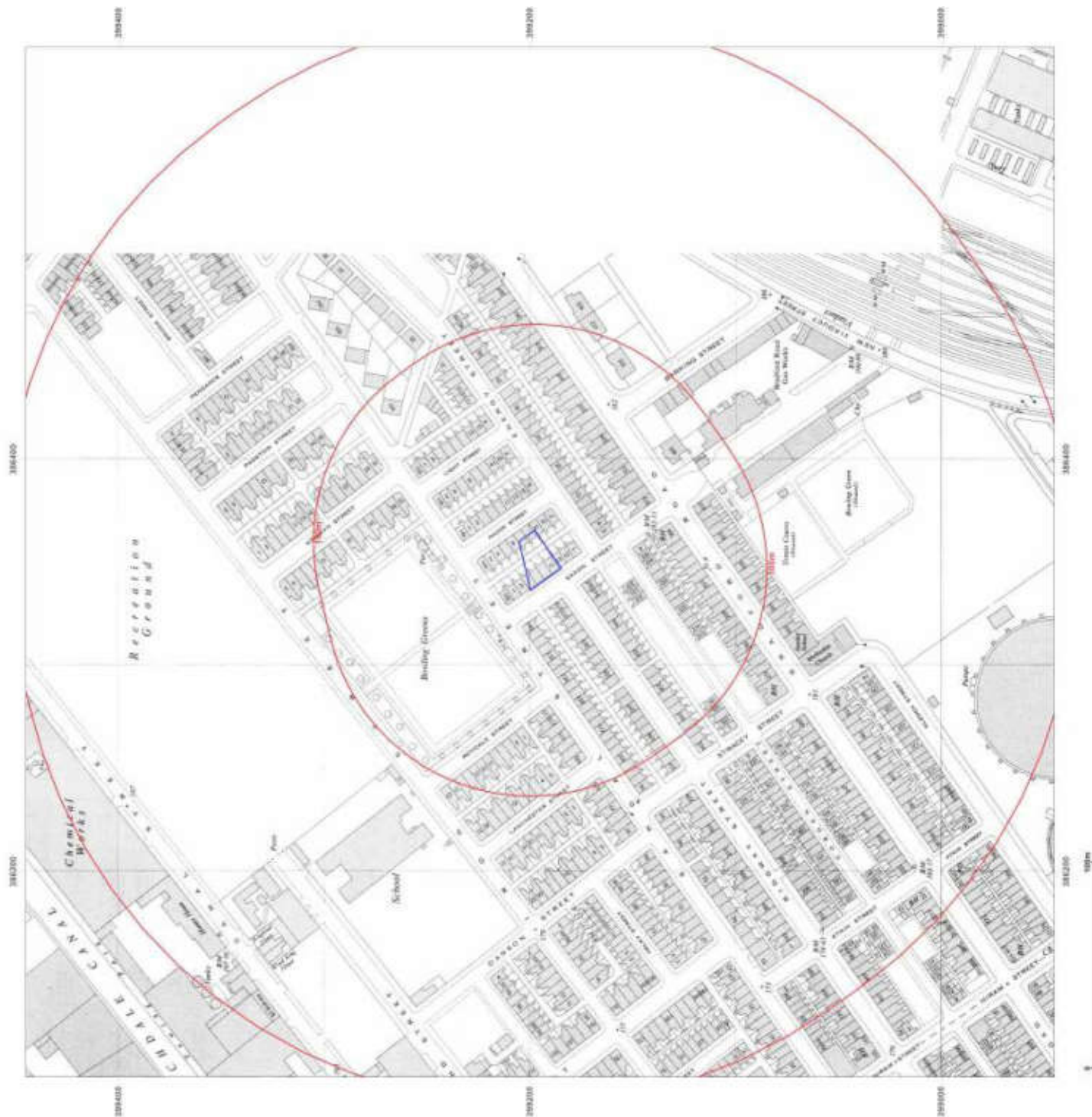
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Site Details:

1650000 Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 1993 95

Map Name: National Grid

Map date: 1949

Scale: 1:2,500

Printed at 1:2,500



Surveyed 1949
Revised 1949
Edition N/A
Copyright 1950
Levelled 1929



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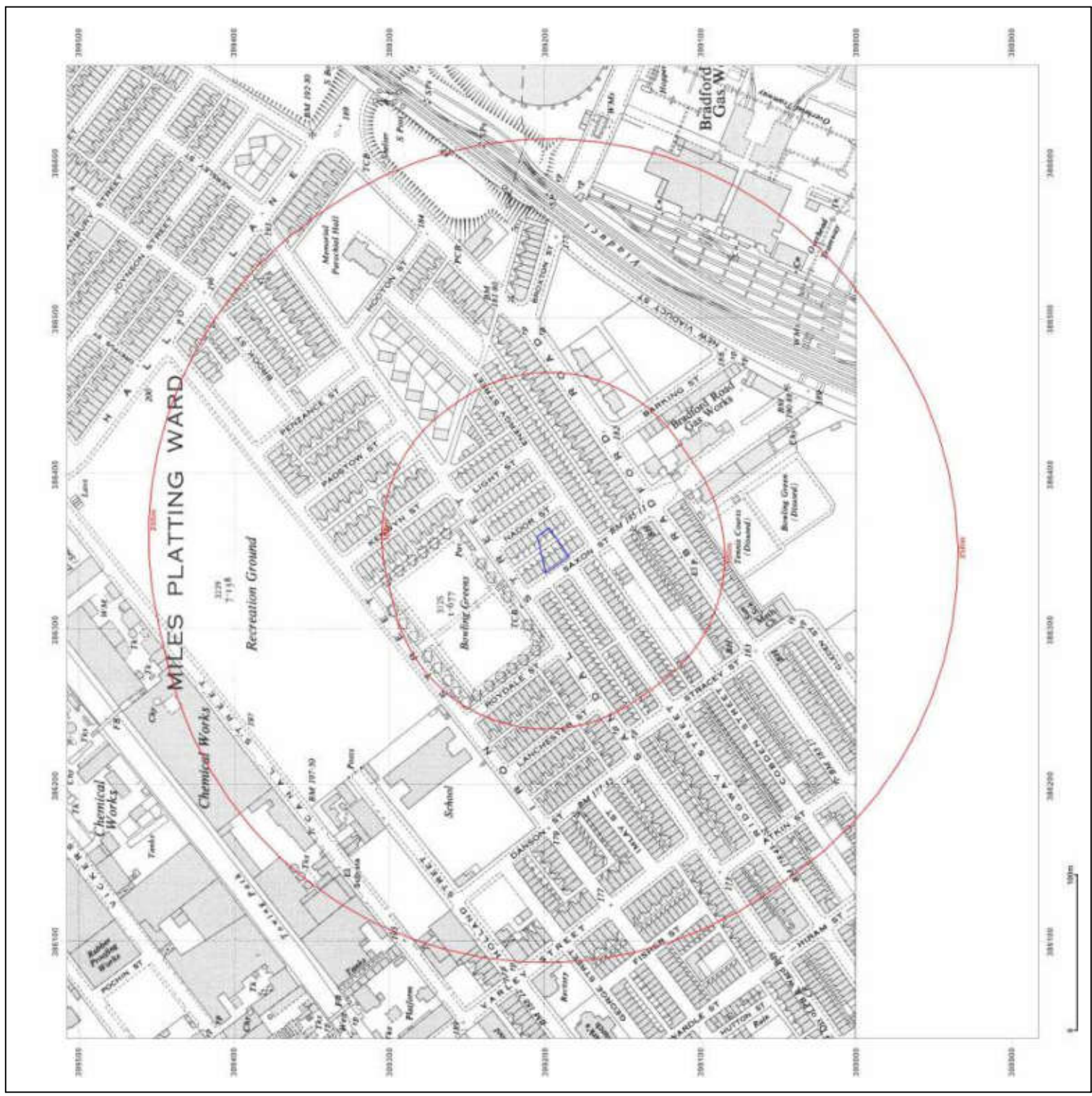


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Site Details:

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M40 1BY

Client Ref: 1199

Client Ref: 1153
Report Ref: CMA 25-CM-972302-Z-99-25062 IHIS
Grid Ref: 386350, 393795

Map Name: National_Cr'd



Map date: 1951

Scale: 1:2,500

Printed at 1:2,330

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



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Map legend available at: www.groundsurre.com/sites/default/files/groundsurre_legend.pdf



Site Details:

1650000 Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4: 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: National Grid

Map date: 1952-1955

Scale: 1:1,250

Printed at 1:2,000



Surveyed 1948 Revised 1952 Edition N/A Copyright 1952 Levelled 1929	Surveyed 1955 Revised 1955 Edition N/A Copyright 1955 Levelled 1949
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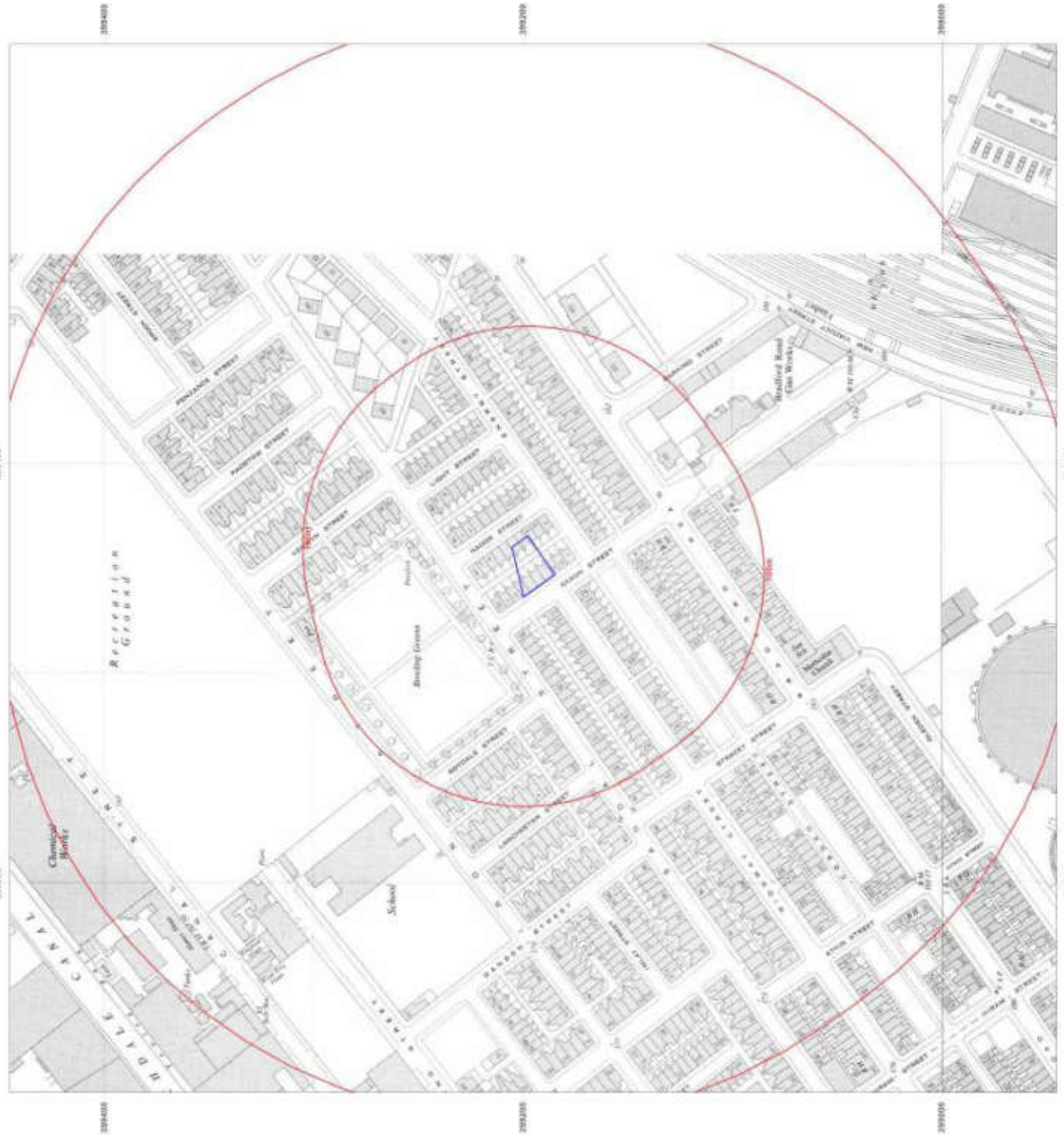


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Production date: 25 June 2021

Map legend available at:
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Site Details:

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M40 7BY

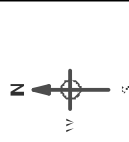
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Report Ref: CMA25-CM-972302-4-99-25062 IHS
Grid Ref: 386350, 393795

Map Name: National_Covid

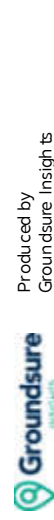
Map date: 1953-1956

Scale: 1:1,250

Printed at 1:2,000 5



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



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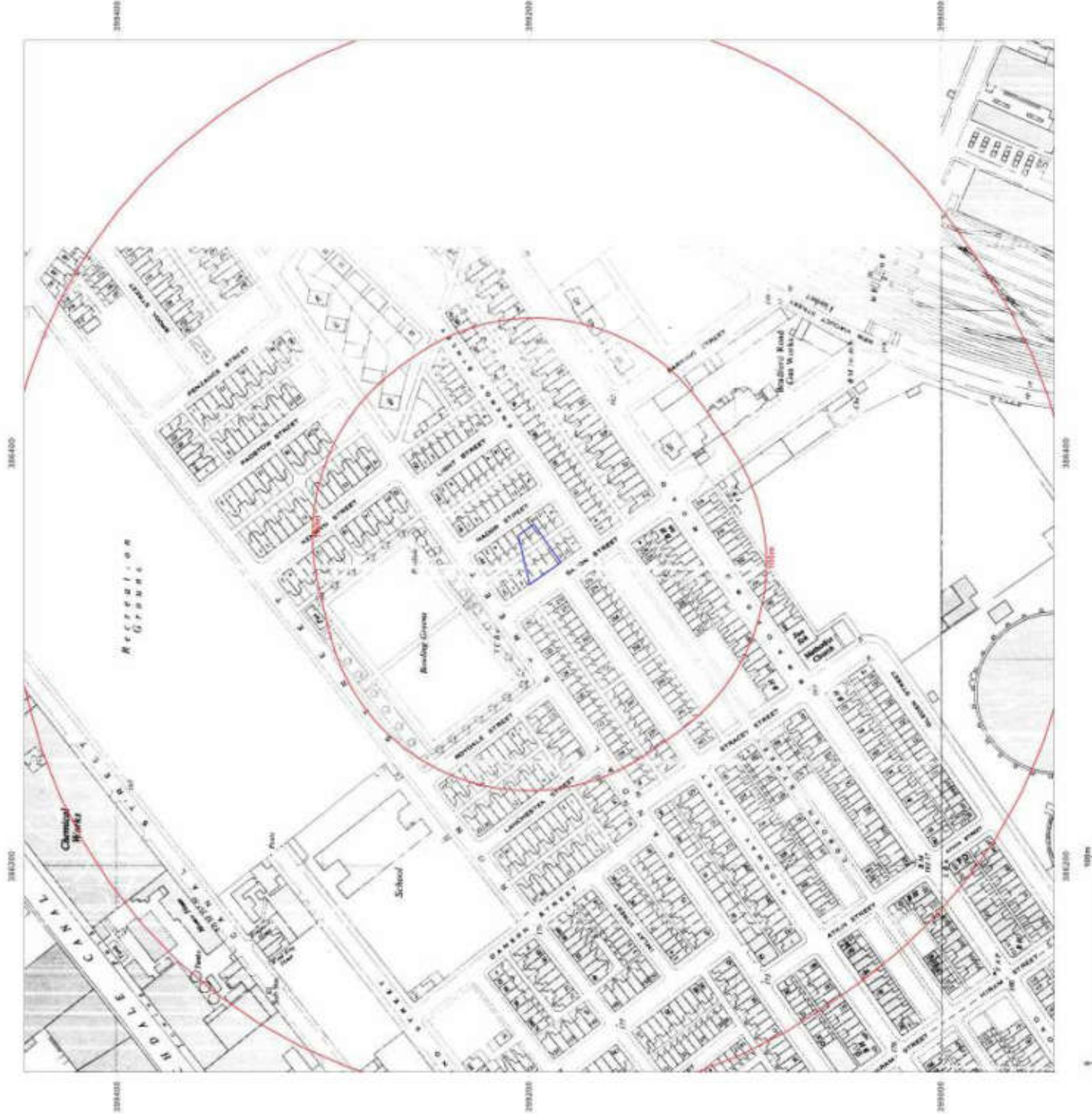
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Site Details:

165, 500, 700 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4: 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: National Grid

Map date: 1968

Scale: 1:1,250

Printed at 1:2,000



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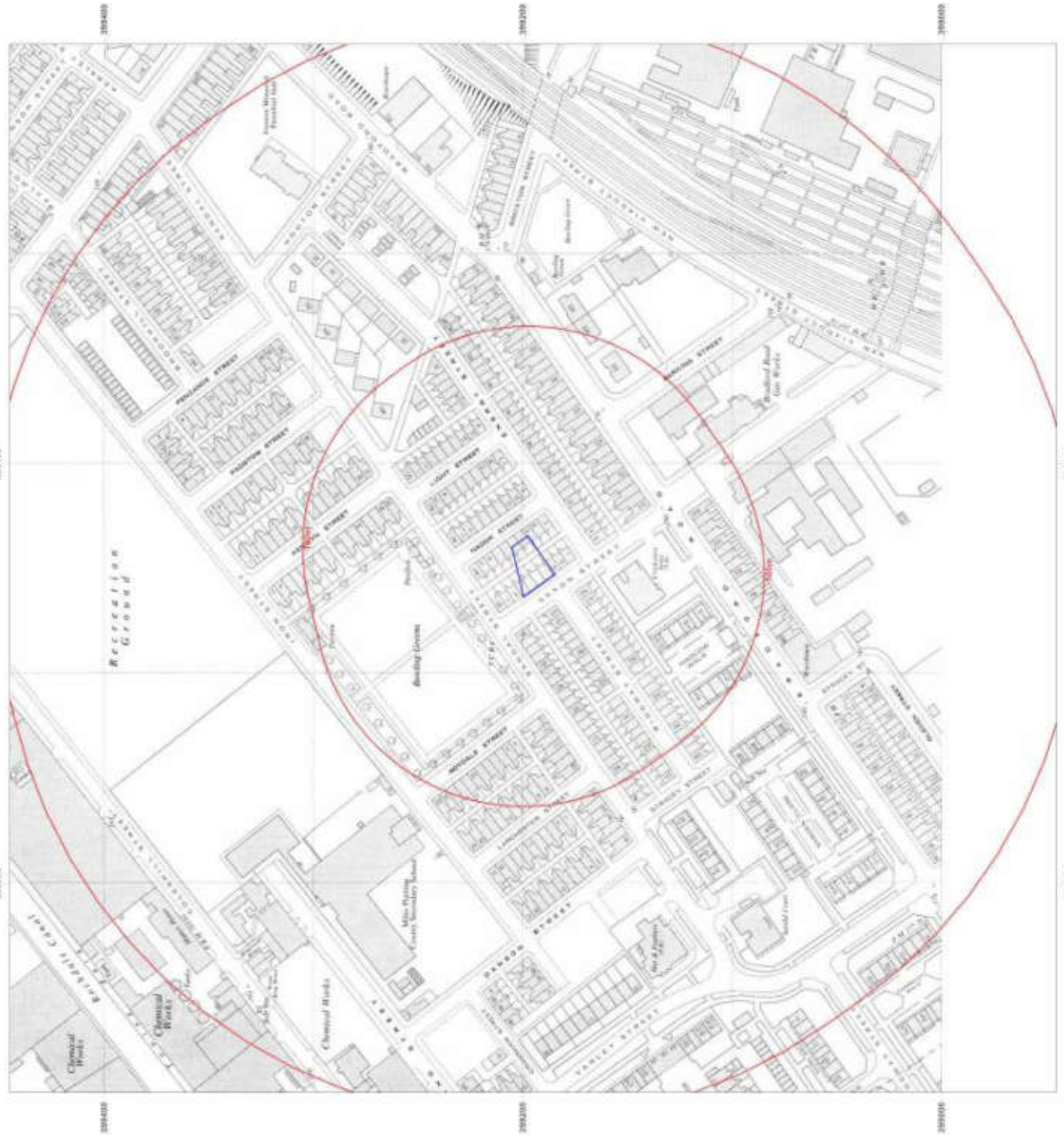


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Site Details:

165, 500, 700 Street, Manchester, M40 7HY

Client Ref: 1199
Report Ref: CMA25-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 39375

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at 1:2,500



Surveyed N/A
Revised 1969
Edition N/A
Copyright 1970
Levelled 1964



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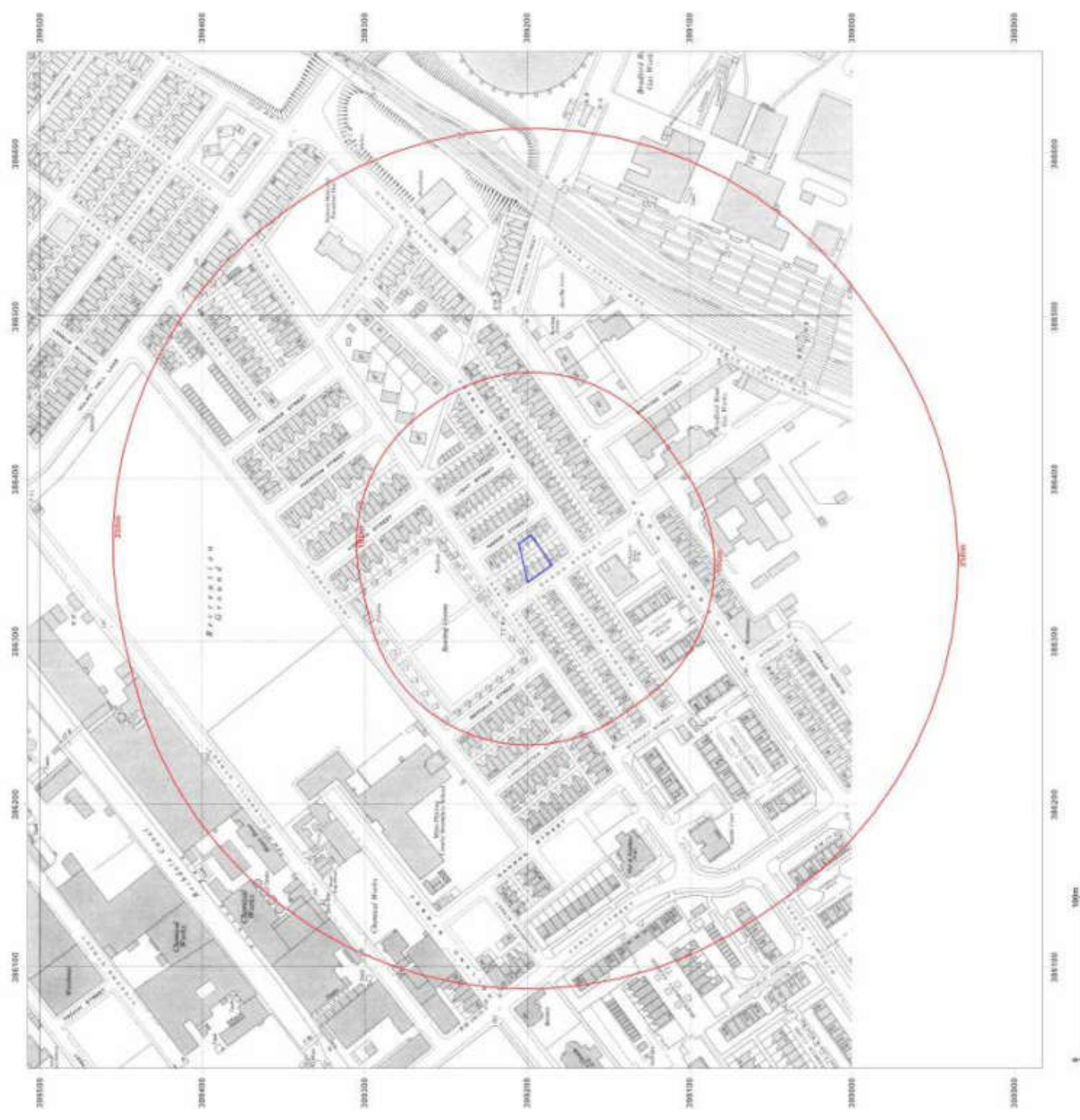


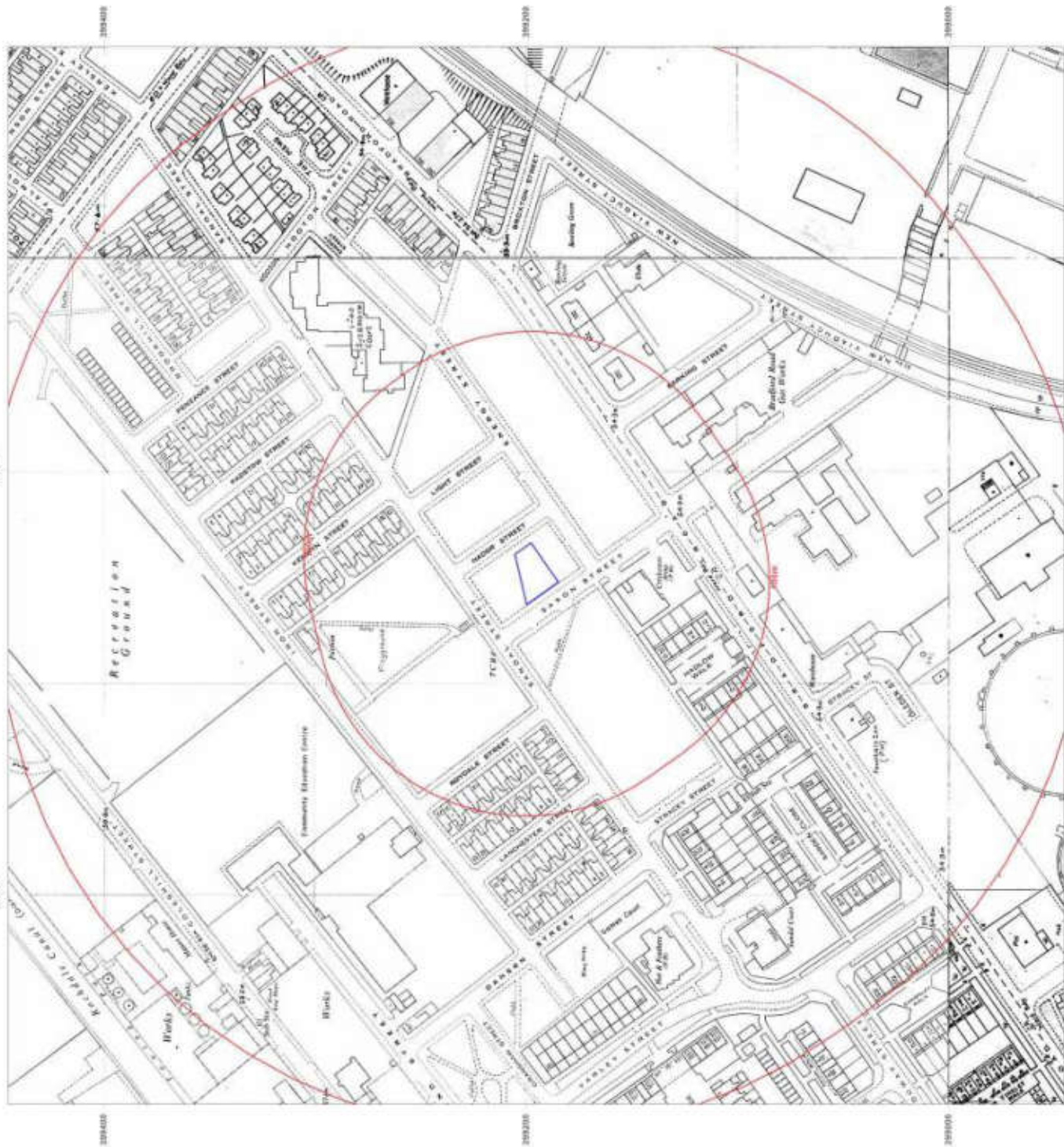
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Production date: 25 June 2021

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Site Details: 7650 Glen Street, Manchester, NY 14018	Client Ref: 1199 Report Ref: CMAA-SCM-9723024-99-25062 IHIS Grid Ref: 386350, 393795
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Site Details: 7650 Glen Street, Manchester, NY 14018	Client Ref: 1199 Report Ref: CMAA-SCM-9723024-99-25062 IHIS Grid Ref: 386350, 393795
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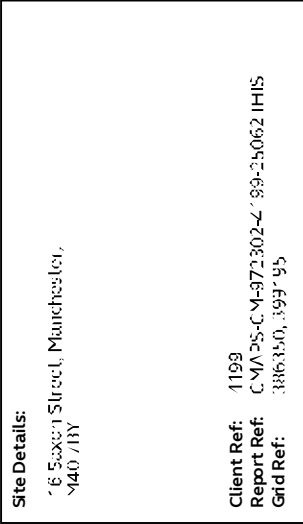
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Site Details: 7650 Glen Street, Manchester, NY 14018	Client Ref: 1199 Report Ref: CMAA-SCM-9723024-99-25062 IHIS Grid Ref: 386350, 393795
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Site Details: 7650 Glen Street, Manchester, NY 14018	Client Ref: 1199 Report Ref: CMAA-SCM-9723024-99-25062 IHIS Grid Ref: 386350, 393795
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Site Details: 76 Seaton Street, Manchester, M40 1BY	Client Ref: 1199 Report Ref: CMA25-CMA9723024-99-25062 IHIS Grid Ref: 386350, 393795
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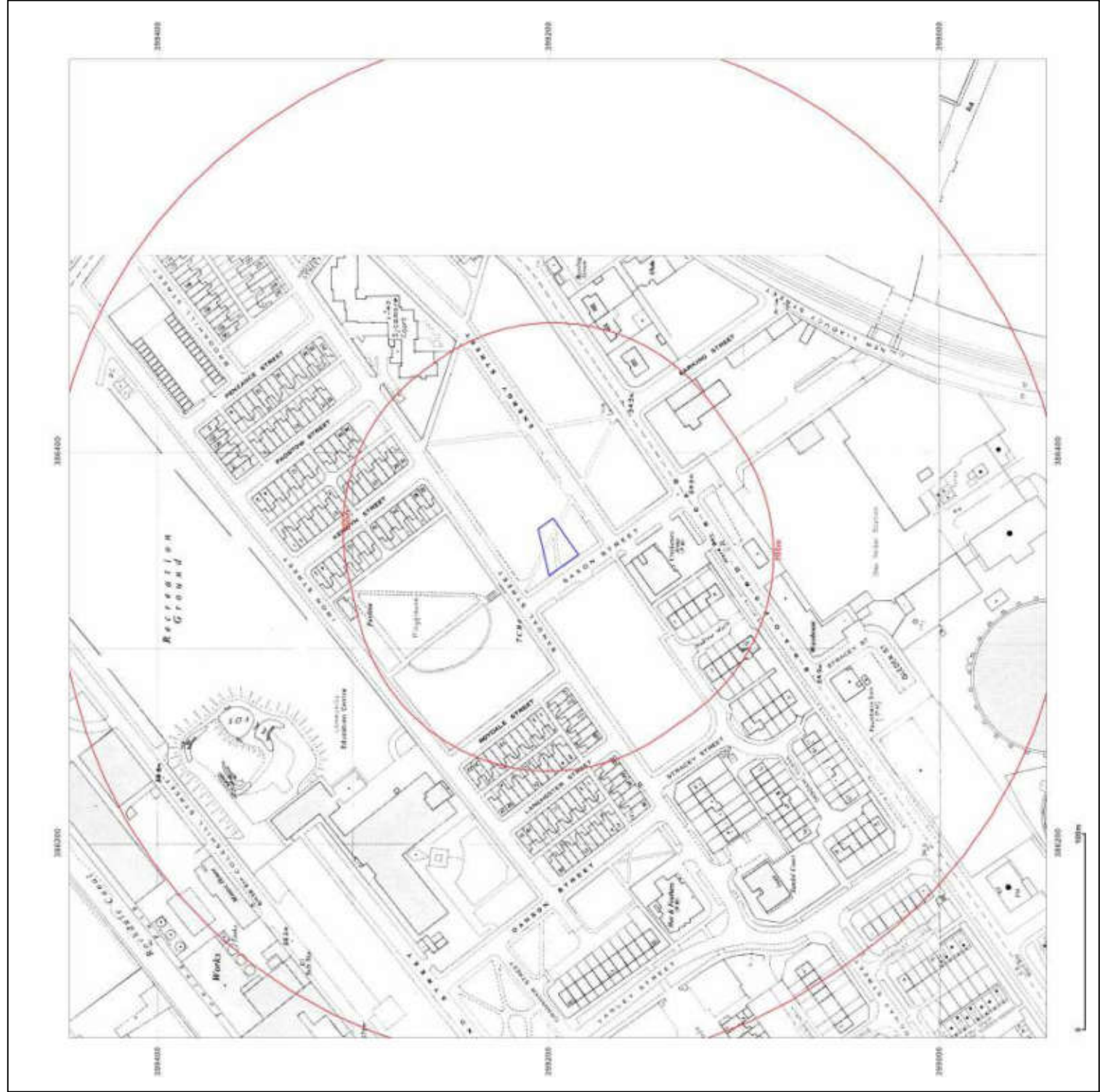
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Site Details:

1650000 Street, Manchester,
M40 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4: 99-25062 IHIS
Grid Ref: 386350, 193795

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at 1:2,000



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Surveyed 1946 Revised 1989 Edition N/A Copyright 1989 Levelled 1964	



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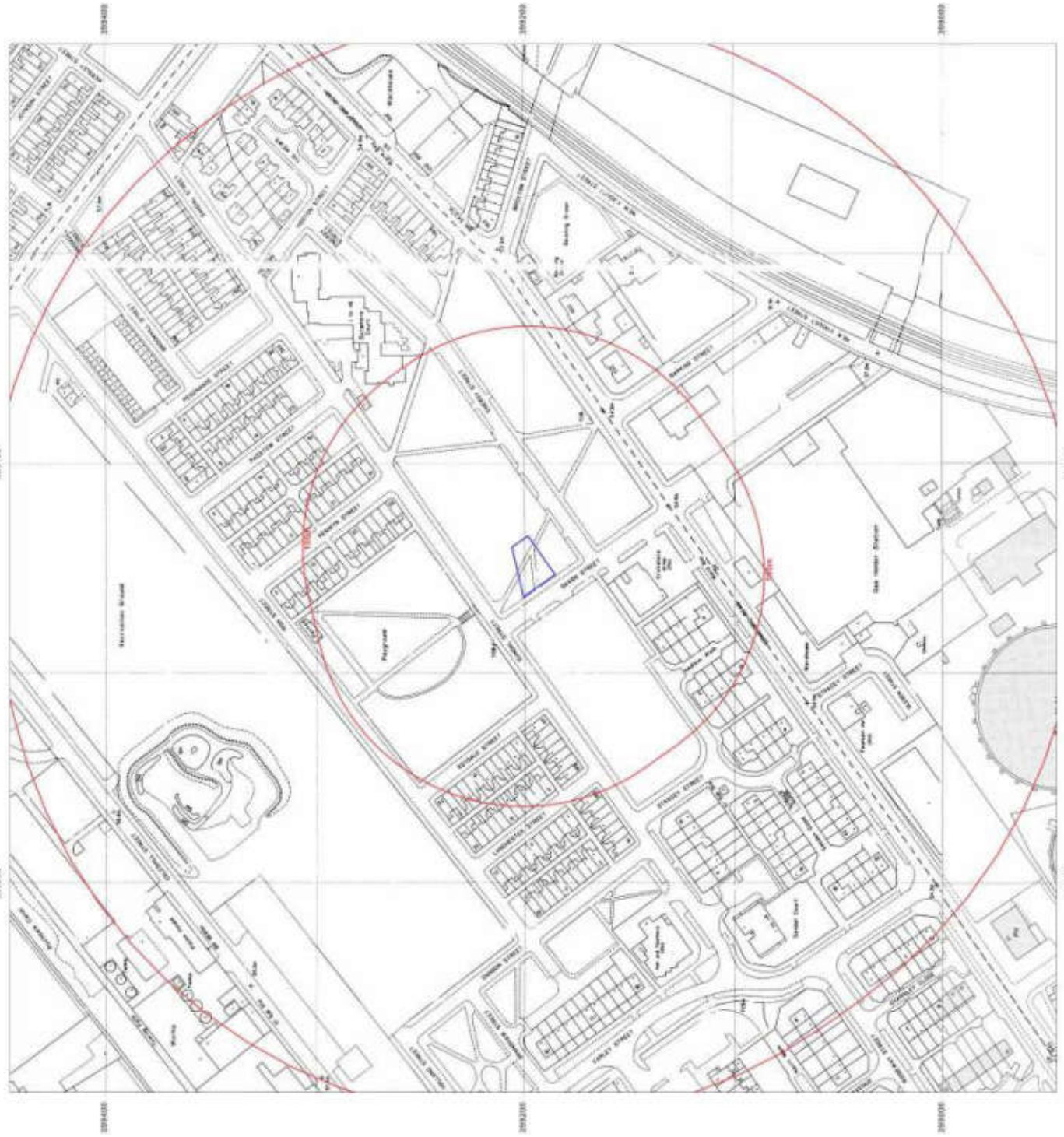


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Site Details:

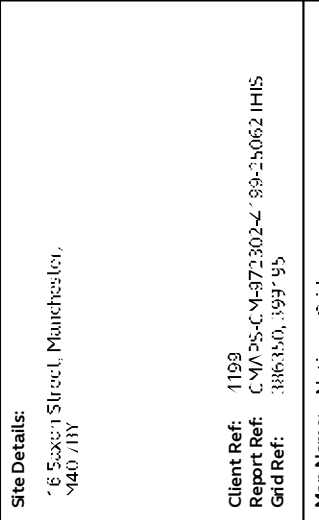
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 76 Essex Street, Manchester,
 M40 1HY

Site Details:
 16 Saxen Street, Manchester,
 M40 1HY

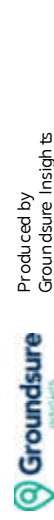
Site Details: 16 Essex Street, Manchester, M40 7JY	Client Ref: 1199 Report Ref: CVA25-CM-973302-199-25062 IHIS Grid Ref: 386350, 393795	Map Name: National Grid
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Site Details:
 16 Saxon Street, Manchester,
 M40 7HY

Site Details:	
16 Saxon Street, Manchester,	
M40 /HY	
Client Ref: 4193	
Report Ref: CMA25-CMA972302-1992-5062 IHIS	
Grid Ref: 386350, 399795	
Map Name: National Grid	
Map date: 1992-1995	
Scale: 1:1,250	



Site Details: 16 Saxon Street, Manchester, M40 7HY	Client Ref: 4193 Report Ref: CMA35-CM-973302-2199-25062 IHIS Grid Ref: 386350, 393795	
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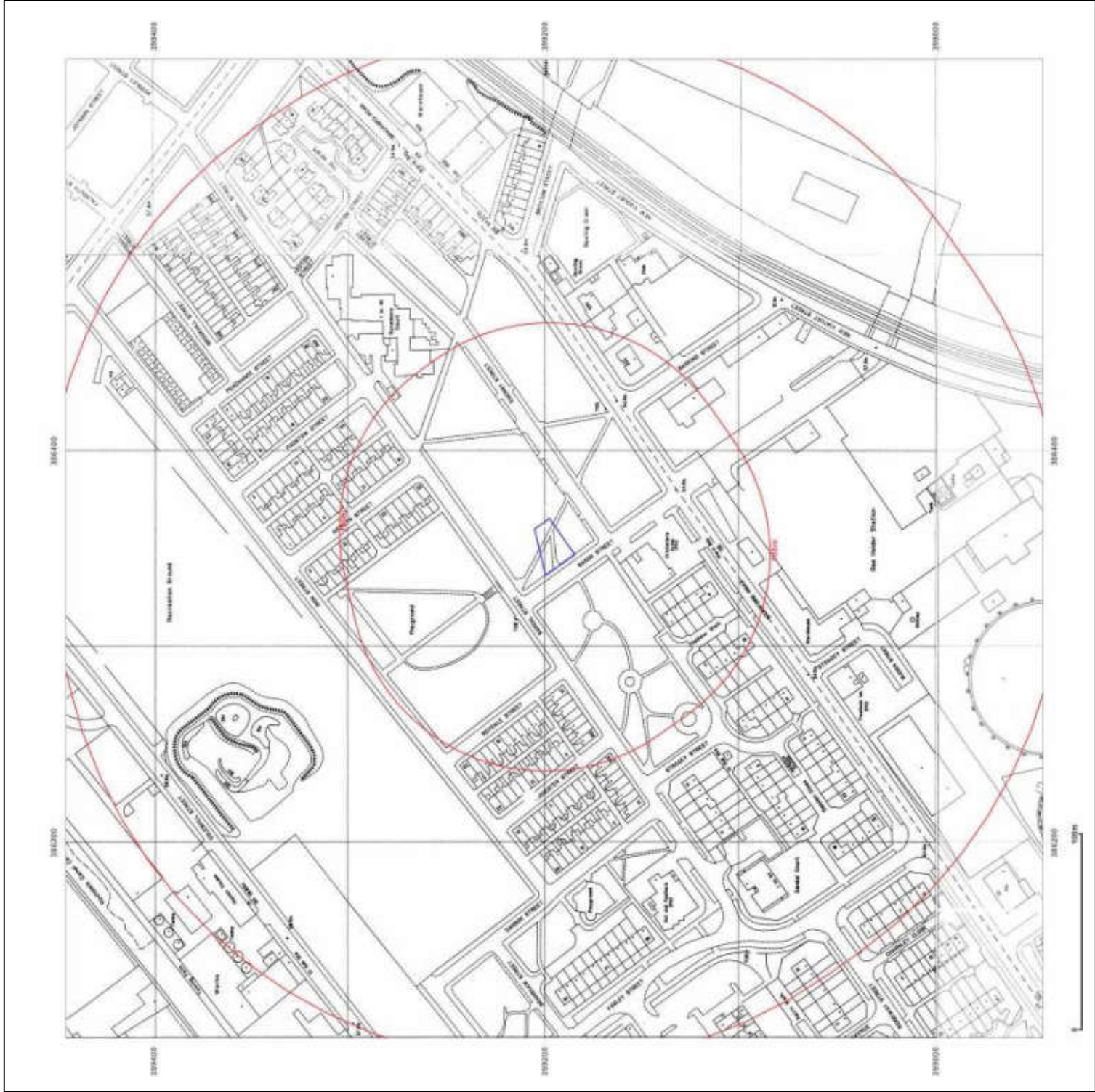

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Site Details:
 76 Saxon Street, Manchester,
 M40 1BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-99-25062 IHS
Grid Ref: 386350, 399795

Site Details:
 76 Saxon Street, Manchester,
 M40 7BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-99-25062 IHS
Grid Ref: 386350, 399795

Site Details:
 76 Saxon Street, Manchester,
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Grid Ref: 386350, 399795

Site Details:
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Site Details:
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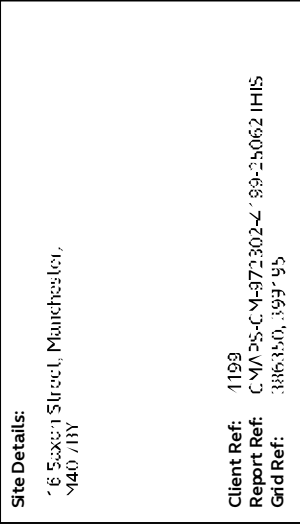
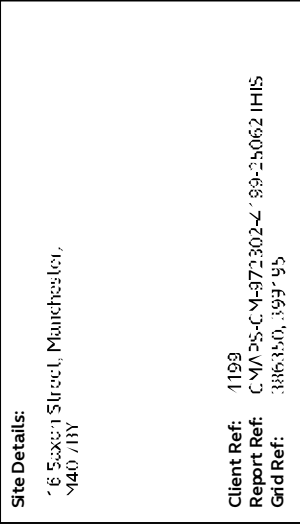
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Client Ref: 1199
Report Ref: CMA25-CMA-9723024-99-25062 IHS
Grid Ref: 386350, 399795

Site Details:
 76 Saxon Street, Manchester,
 M40 1BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-99-25062 IHS
Grid Ref: 386350, 399795



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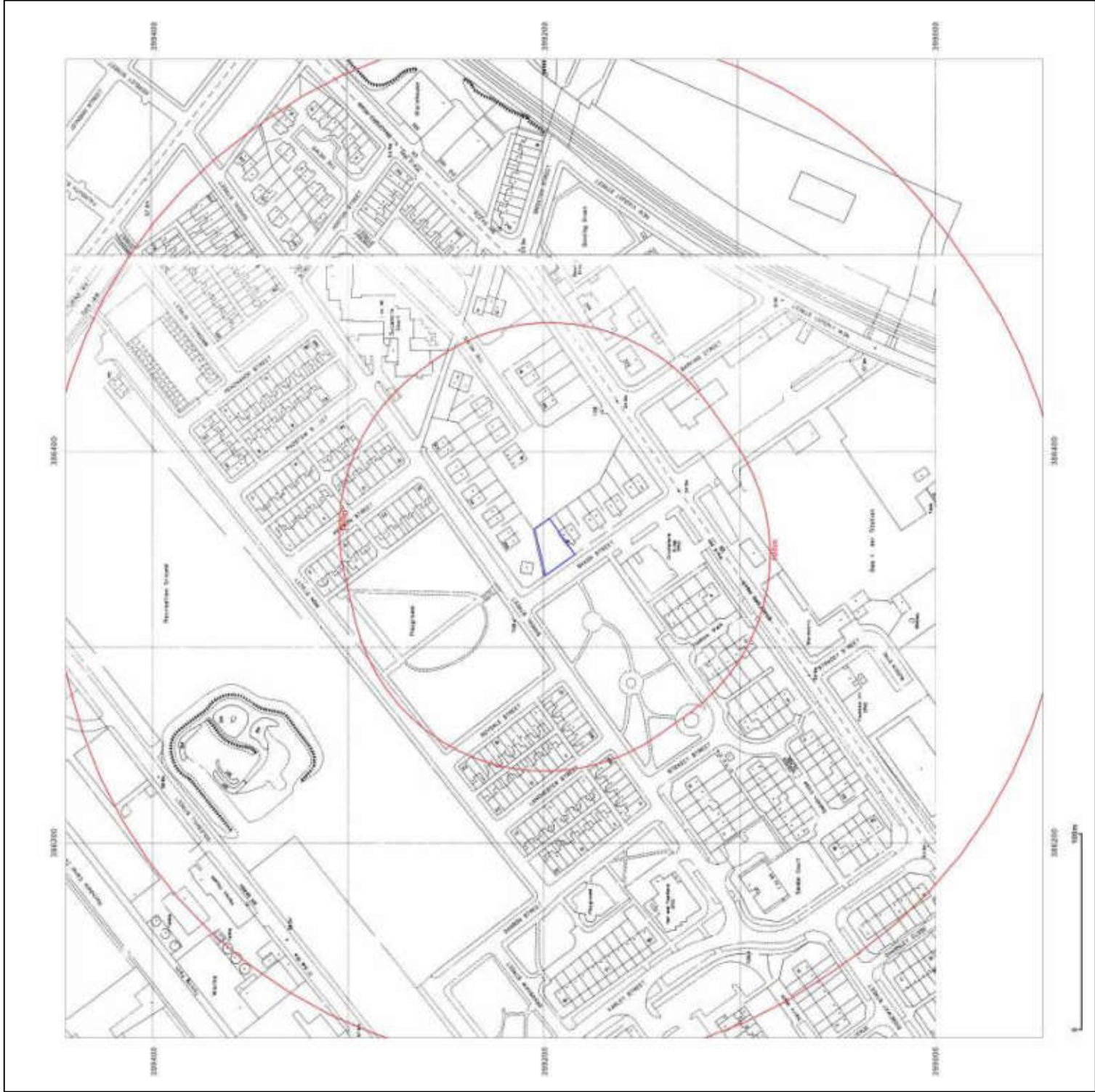
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Site Details:
 76 Saxon Street, Manchester,
 M40 7BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-89-25062 IH15
Grid Ref: 386350, 393795

Site Details:
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 M40 7BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-89-25062 IH15
Grid Ref: 386350, 393795

Site Details:
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 M40 7BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-89-25062 IH15
Grid Ref: 386350, 393795

Site Details:
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 M40 7BY

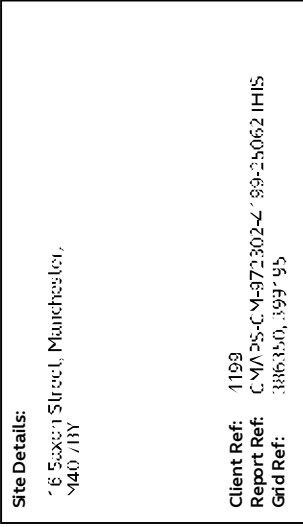
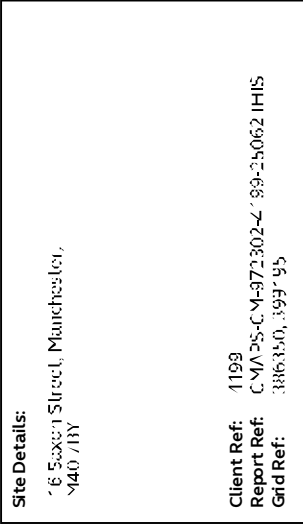
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Client Ref: 1199
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Grid Ref: 386350, 393795

Site Details:
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Client Ref: 1199
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Grid Ref: 386350, 393795



Site Details:
 76 Saxon Street, Manchester,
 M40 7BY

Client Ref: 1199
Report Ref: CMA25-CMA-9723024-89-25062 IH15
Grid Ref: 386350, 393795

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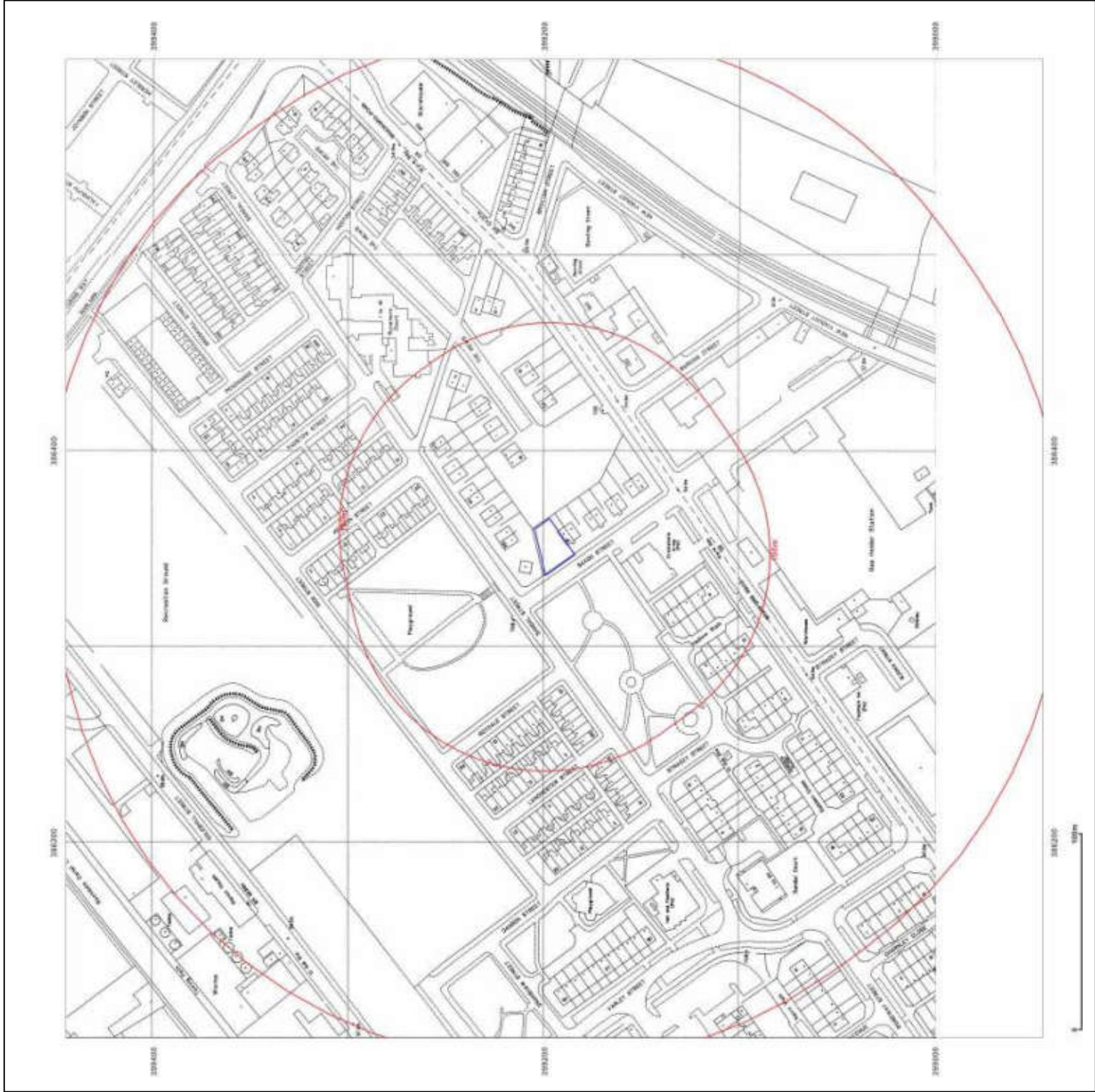
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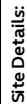


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165, 500, 1500 Street, Manchester,
M40 1BY

Client Ref: 1199
Report Ref: CMA 25-CM-972302-199-25062 IHIS
Grid Ref: 386350, 393795

Map Name: National_Cruid

Map date: 1992-1995

Scale: 1:1,250

Printed at 1:2,000



Surveyed 1994 Revised 1994 Edition N/A Copyright 1994 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1995 Levelled N/A
Surveyed 1992 Revised 1992 Edition N/A Copyright 1992 Levelled N/A	Surveyed 1992 Revised 1992 Edition N/A Copyright 1992 Levelled N/A



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Site Details:

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M14 7HY

Client Ref: 1199
Report Ref: CMA35-CM-972302-4 99-25062 IHIS
Grid Ref: 386350, 193755

Map Name: Land Line
Map date: 2003
Scale: 1:1,250
Printed at 1:1,250



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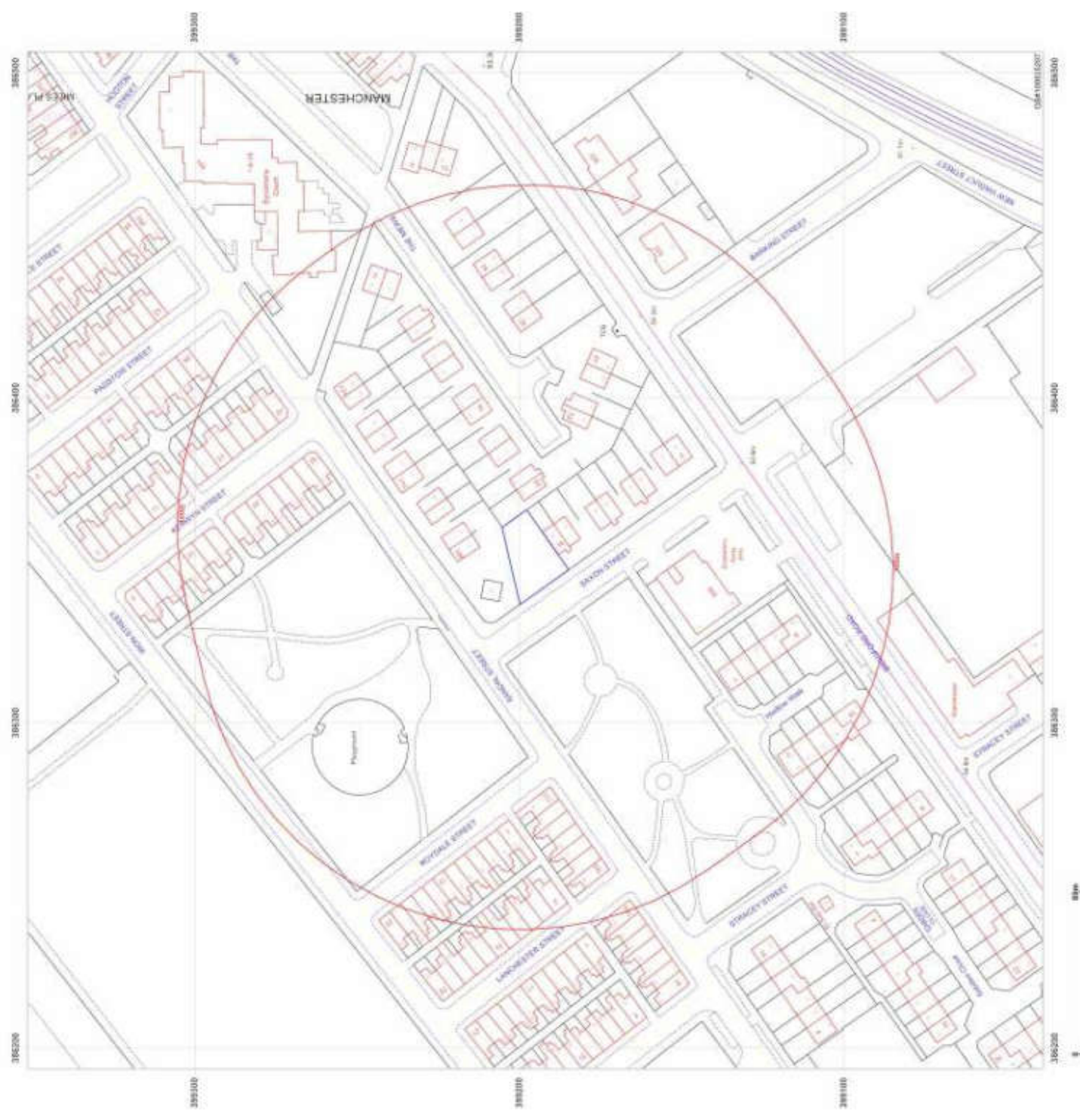


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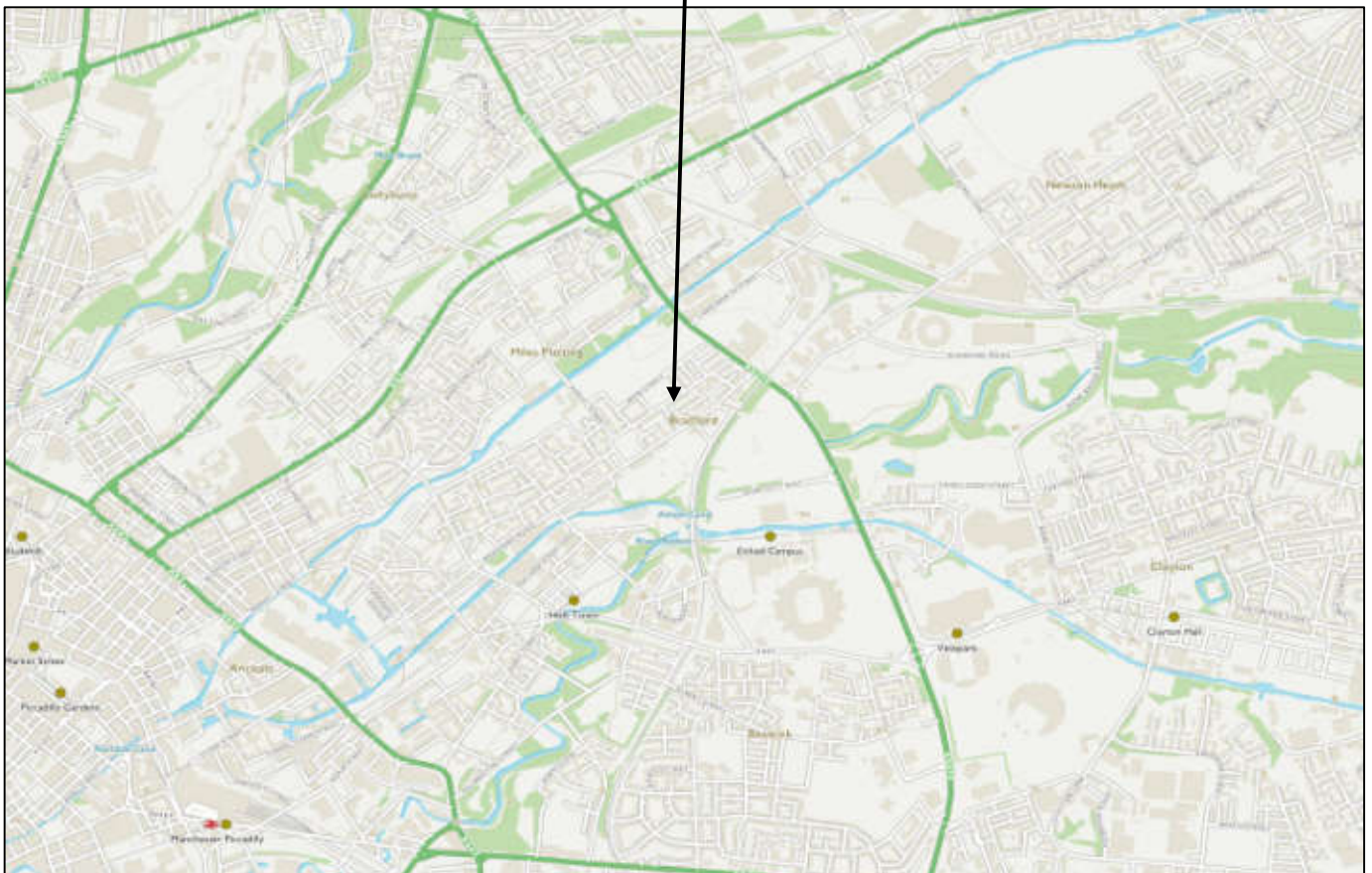
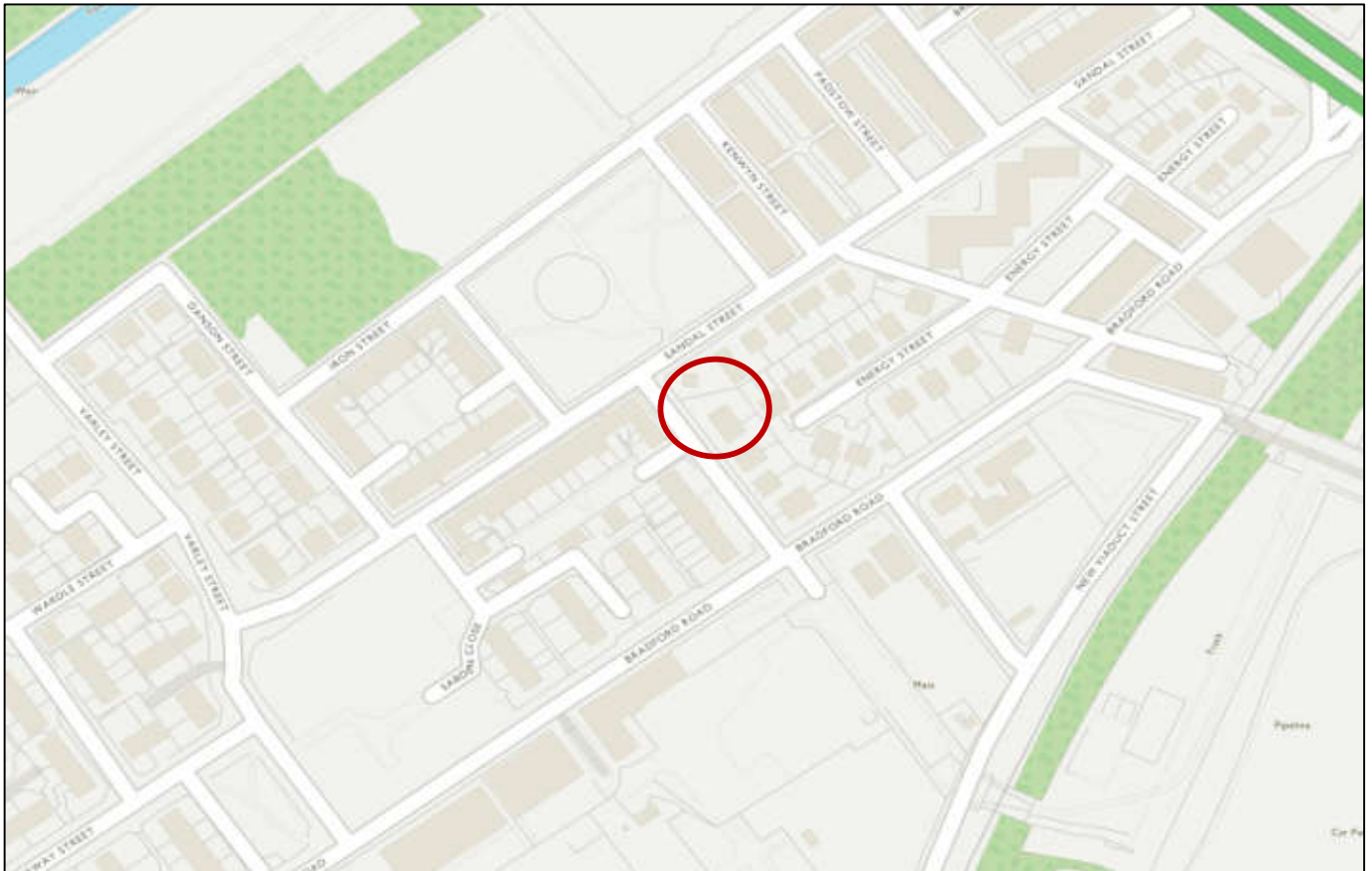
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FIGURES



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Prescot, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

General Site Location

Site
16 SAXON STREET, MILES PLATTING, MANCHESTER

Date Drawn
10-Feb-22

Date Checked



Job No.
7281A

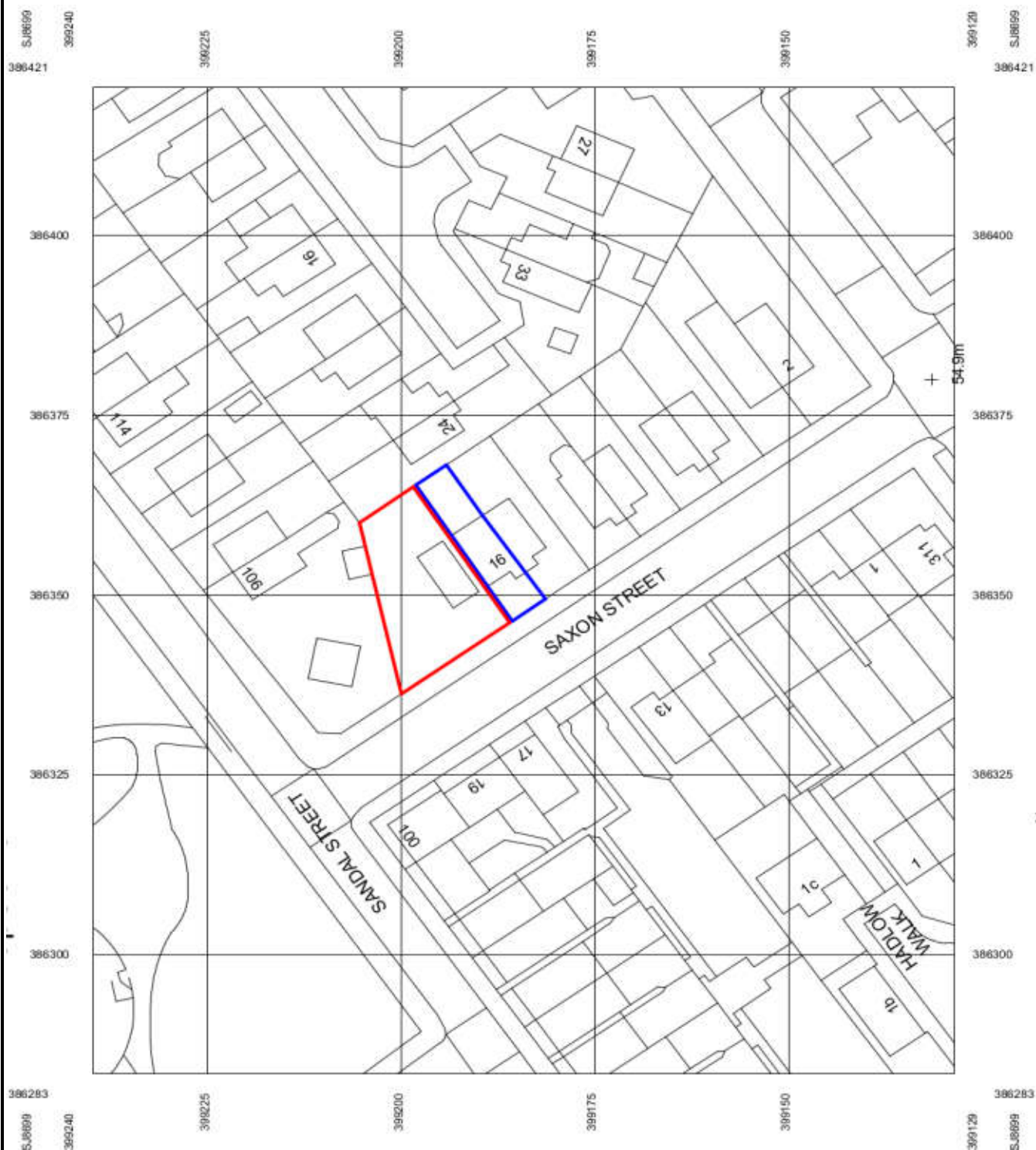
Client
SANDTON LONDON EC1Y LTD

Drawn By
TP

Checked By

Scale
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Figure No.
1

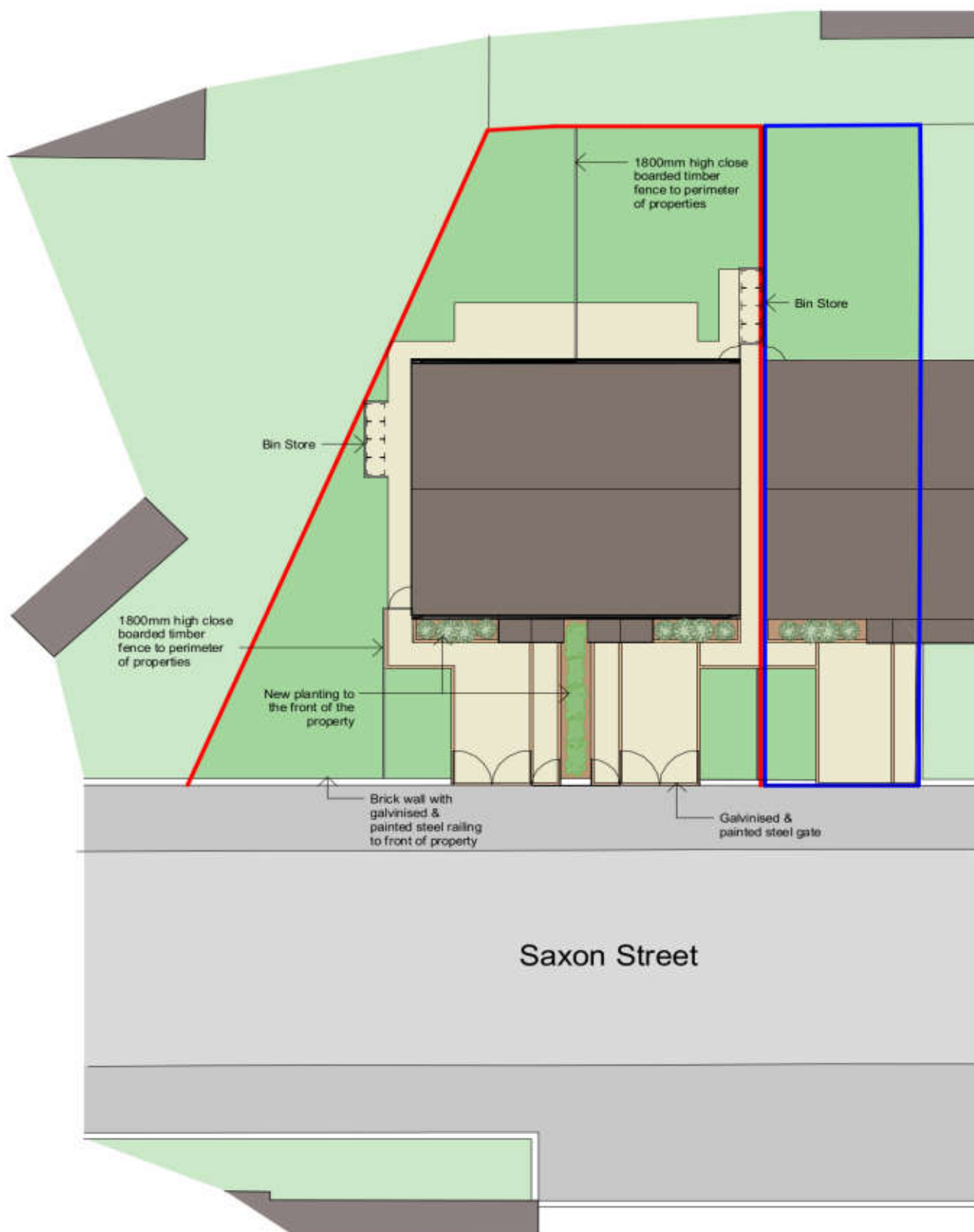


SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEO TECHNICAL CONSULTANTS
3 Peel Street, Presb'n, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site Location

Site 16 SAXON STREET, MILES PLATTING, MANCHESTER	Date Drawn 10-Feb-22	Date Checked	Orientation 	Job No. 7281A
Client SANDTON LONDON EC1Y LTD	Drawn By TP	Checked By	Scale -	Figure No. 2



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Proposed Development

Site	Date Drawn	Date Checked	Orientation	Job No.
16 SAXON STREET, MILES PLATTING, MANCHESTER	10-Feb-22			7281A
Client	Drawn By	Checked By	Scale	Figure No.
SANDTON LONDON EC1Y LTD	TP		—	3



 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907		Existing Site/ Photograph Location Plan			
Site 16 SAXON STREET, MILES PLATTING, MANCHESTER		Date Drawn 10-Feb-22	Date Checked	Orientation 	Job No. 7281A
Client SANDTON LONDON EC1Y LTD		Drawn By TP	Checked By	Scale —	Figure No. 4