RIDGE

DESK TOP STUDY

HORTON ROAD, WEST DRAYTON

LE MASURIER
March 2025

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Prepared for

Le Masurier
c/o LMO Overseas Investments Ltd
23 Commercial Street
St Helier
Jersey
JE2 3RU

Prepared by

Ridge and Partners LLP
1 Royal Court
Kings Worthy
Winchester
Hampshire
SO23 7TW

Tel: 01962 834400

Contact

Ollie Sanders
Graduate Geo-Environmental Engineer
olliesanders@ridge.co.uk
07554 724357

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RIDGE

CONTENTS

1. INTRODUCTION

1.1. Brief

Ridge and Partners LLP (Ridge) have been commissioned by Le Masurier Limited (the Client) to undertake a Desk Top Study for land at Horton Road, West Drayton, UB7 8HR (hereafter referred to as 'the site'). A site location plan is included as Figure 1.

Ridge were briefed to use information provided by the client to obtain an environmental database search relating to the site and carry out a walkover survey to assess and report on the findings with respect to potential ground contamination and potential associated future liabilities in accordance with guidance outlined in Land Contamination Risk Management (LCRM 2023), published by the Environment Agency.

This report is prepared in line with the agreed brief and is subject to report conditions shown in Appendix 1.

1.2. Proposals

Long-term proposals for the site include the demolition of existing units and the construction of two new commercial units located centrally within the north and south of the site. Each proposed unit will have ancillary offices supported by car parking, service yards with loading docks, and landscaping. Access to the proposed units will be via roadways from Horton Road.

Proposed development plans are included as Figure 2.

1.3. Legal Context and Methodology

Part IIA of the Environmental Protection Act provides a risk-based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment, but the regime does not take into account future uses. New developments are therefore controlled by the planning regime, with reference to the National Planning Policy Framework (NPPF, 2024), rather than directly by Part IIA of the Environmental Protection Act.

This report has been prepared in accordance with published Environment Agency guidance – Land Contamination Risk Management (LCRM, 2020), which supersedes CLR 11. CLR 11 adopted and refined the well-recognised methodology and terminology that has been used in contaminated land risk assessment for a number of years.

LCRM advocates a tiered approach to risk assessment, as necessary. This document constitutes a **Preliminary Risk Assessment** under that guidance**.**

Further details regarding Legal Context and Methodology are included as Appendix 2.

1.4. End Use Classification

For the Preliminary Risk Assessment, the end use classification of 'commercial' will be applied.

A change in the site use from the one currently proposed may result in the need for re-assessment of risk criteria, as such the conclusions and recommendations resulting from the risk assessment could change significantly.

1.5. Report Scope and Limitation

This report is based upon a review of historical and current information, a site walkover survey, geological and hydrogeological mapping and information from an environmental database search. The assessment is based on the proposed end use outlined in Section 1.2. The outcomes of this assessment could change if the end uses change.

The information contained in this report is intended for the use of **Le Masurier Limited**. Ridge can take no responsibility for the use of this information by any other party or for uses other than that described in this report.

2. SITE CONDITIONS

An engineer from Ridge visited on 13 February 2025 to conduct a walkover survey of the site and the surrounding areas for the purpose of identifying any potential contamination or evidence of previous contaminative processes. The descriptions below relate to site conditions at the time of the inspection only.

A photographic log is included as Appendix 3.

2.1. Site Location

The site is centred on easting 506582 and northing 180178 to the north of West Drayton. The centre of the site is situated at approximately 30m AOD (Above Ordnance Datum).

The site is of an irregular broadly rectangular shape with some smaller areas extending out of the eastern boundary. The site has an area of 1.2ha.

2.2. Current Site Use

The site is currently composed of light industrial use with no soft landscaping. Use includes a butchers, food production, a joinery, and car repairs. The hard standing on the site is slightly worn, likely due to heavy vehicle traffic.

2.3. Access

The site is only accessible by vehicles and pedestrians from Horton Road to the north. There is no access to the site adjacent to the west

2.4. Structures

The units are one storey composed of brick work and sheet metal, some having mezzanine levels. The buildings are generally in good condition, with internal concrete slab flooring.

2.5. Boundaries

All of the sites borders consist of fencing which is in good condition.

2.6. Topography

A topography survey received from Le Masurier shows that the topography of the site is generally flat with the majority of the site being approximately 30mAOD. The south and west of the site is at a slightly lower elevation of approximately 29.9mAOD, whilst the highest point is found on the eastern boundary at 30.53mAOD.

2.7. Surroundings

The site is mainly adjacent to other industrial areas, however there are residential flats to the north on the opposite site of Horton Road. Grand Union Canal is immediately to the south of the site.

2.8. Trees & Vegetation

No vegetation is present on site, however a mature tree is adjacent to the eastern boundary.

2.9. Utilities

No overhead services were identified, however there are numerous instances of service run scarring and manholes.

There was no evidence of above ground or underground storage tanks.

A substation is immediately adjacent and part of the site to the east.

2.10. Potential Sources of Contamination – Walkover Survey

No potential sources of contamination were observed during the site walkover.

3. SITE HISTORY AND HISTORICAL CONTAMINATIVE SOURCES

3.1. Review of Historical Maps

Ordnance Survey Maps provided within a Groundsure Report package have been obtained to provide details of the history of the site and surrounding areas. A chronological description of the maps is shown in the table below. The descriptions focus on potentially contaminative land uses within 50-100m and potentially infilled features within 250m of the development site boundary. Note, potential contaminative sources and features outside these distances from the site have been discussed only where they are considered to be relevant. Copies of the maps are included as Appendix 4.

MAPPING (SCALE)	OBSERVATIONS ON-SITE	OFF-SITE
1866 (1:2,500)	The first map available for review shows the site to be an open space, with a small road overlapping its northern boundary	Open area surrounds much of the site, however chemical works are marked 119m south-west. A canal is visible adjacent to the sites border, as well as a dock 112m east and a river 198m west.
1868 (1:10,560)	No significant changes visible on-site.	The 'Grand Junction Canal' and 'Great Western Rail' are present adjacent to and 33m from the south border. Oil works are marked 426m west. Further afield, the towns of Yiewsley and West Drayton are marked 700m west and 800m south-west respectively.
1894-1895 (1:2,500 & 1:10,560)	No significant changes visible on-site.	Several houses are now present on the road adjacent to the sites north. Cement works are now marked 295m west, and the oil works to the west are no longer marked. West Drayton Station is now seen 400m west.
1898-1900 (1:10,560)	No significant changes visible on-site.	No significant changes off-site.
1913-1914 (1:2,500 & 1:10,560)	Allotment gardens are now marked on site.	Helical hear works are marked 90m south-east of the site, as well as printing works 120m east and a pumping station 172m west. A general increase in building density can be seen to the west.

1935 (1:2,500)	A building is now marked just inside the site's western boundary.	Compressed paper works are now marked adjacent to the sites west, as well as 'Drayton Regulator & Instrument Works' 152m north-east. The helical gear works to the south-east has expanded, and the chemical works to the south-west are no longer marked. Significant residential development can be seen to the north.
1960 (1:10,560)	Multiple buildings are now marked as works inside the site.	'Drayton Regulator & Instrument Works' to the north-east have now been replaced by a larger works building, and the gear works to the south are no longer marked.
1965-1966 (1:1,250)	Some changes in the layout of the buildings are visible.	The compressed paper works adjacent to the west are now no longer marked. A factory is marked adjacent to the sites west, as well as two works buildings 75m east where the printing works once were.
1974-1975 (1:10,000)	Significant change to the layout of the buildings on-site can be seen, so much so that most of the sites west and south is covered by a large factory.	Changes to the layout of the works to the east of the site can be seen.
1986-1989 (1:1,250)	The buildings on site are now relabelled as works, however appear to have the same layout. An electricity substation is marked just inside the eastern border, as well as a hopper in the sites south.	The large building immediately west of the site remains labelled as factory. A substation is marked 82m east of the site.
2003 (1:1,250)	The site appears to represent its current layout, with units along the western boundary and a more open area in its east. The works and factory are no longer marked on site, whilst the electricity substation and hopper remain.	The large warehouses to the west of the site are no present. Another substation is now marked 12m east of the site.
2010 (1:10,000)	The site is now marked as an industrial estate.	No significant changes off-site.
2025 (1:10,000)	No significant changes visible on-site.	No significant changes off-site.

Table 3.1:Historical Map Review

3.2. Review of Satellite Images

A review of publicly available satellite images has been carried out to provide information in relation to the site.

- The earliest image available for review (1999) shows the site to consist of several tightly packed industrial buildings, with seemingly very little open space between them. A railway track can be seen approximately 30m to the south, whilst a more residential area can be seen to the north.

- The next image (2013) suggests some of the buildings have been removed from the site, most notably the units along the western boundary. Four new large warehouses are now present just west of the site.

- No significant changes noted in the 2017-2022 images.

3.3. Potential Sources of Contamination – Historical Map Review

Contaminant sources considered to present a potential risk to the site are detailed in the table below.

POTENTIAL SOURCES OF CONTAMINATION CONSIDERED A RISK TO THE SITE		
FEATURE	DISTANCE, DIRECTION	APPROX. DATES
Works / factory	On site	1965-2004
Factory	1m W	1965-1992
Compressed paper works	1m W	1935-1965
Railway and associated activities and processes	33m S	1866-current

Table 3.3: Potential Sources following Historical Map Review

Potential contamination sources not considered to represent a significant risk to the site are detailed in the table below. The features will not be considered further.

POTENTIAL SOURCES NOT CONSIDERED FURTHER	
FEATURE	JUSTIFICATION
Substation, on site, 1986-current	Review of other sources indicate that this substation was installed after the 1981 PCB ban.
Substation, 12m E, 2003	Limited contamination potential since it was installed after the 1981 PCB ban.
Works, 75m E, 1965-current	Low contamination potential due to distance from site.
Electricity substation, 82m E, 1978-2003	Contamination source is no longer present and has since been built over.
Helical gear works, 90m SE, 1913-1960	Distance from site.
Chemical works, 119m SW, 1866-1935	Distance from site.
Printing works, 120m E, 1913-1965	Distance from site.
Works, 145m NE, 1965-	Distance from site.
'Drayton Regulator & Instrument Works', 152m NE 1935-1960	Distance from site.
Pumping station, 172m W, 1913-1960	Distance from site.
Cement works, 295m W, 1894-1913	Significant distance from site.
West Drayton Station, 400m W, 1895-current	Significant distance from site.
Oil works, 426m W, 1868-1895	Significant distance from site.

Table 3.3: Potential Sources not considered further

4. PHYSICAL SETTING

4.1. Geology and Hydrogeology

The following observations are taken from the British Geological Survey (BGS) GeoIndex (2025) and the Geo Insight Groundsure Report (Appendix 5).

The site is underlain by superficial geology of the Lynch Hill Gravel Member which in turn is underlain by bedrock geology of the London Clay Formation.

Tables 4.1 and 4.2 below identify the expected composition of the published strata and associated aquifer classification.

SUPERFICIAL GEOLOGY	
Unit Name	Lynch Hill Gravel Member
Geology Description	Sand and gravel, locally with lenses of silt, clay or peat.
Aquifer Classification	Principal
Aquifer Description	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

Table 4.1: Superficial Geology

BEDROCK GEOLOGY	
Unit Name	London Clay Formation
Geology Description	The London Clay mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay. It commonly contains thin courses of carbonate concretions and disseminated pyrite. It also includes a few thin beds of shells and fine sand partings or pockets of sand, which commonly increase towards the base and towards the top of the formation.
Aquifer Classification	Unproductive
Aquifer Description	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

Table 4.2: Bedrock Geology

4.1.1. Artificial Ground, Landslips and Faults

The site is entirely covered by worked ground.

4.1.2. Radon

The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No Radon Protective Measures are considered necessary for new properties or extensions to existing ones.

4.1.3. Ground Workings and Mining

There are records of surface ground workings inside the sites south associated with the canal, as well as records of researched mining of stone on site.

4.1.4. BGS Borehole Records

No records within 100m of the site.

4.1.5. Natural Ground Subsidence

The BGS has provided the following information as summarised in Table 4.3 below.

PROCESS	RISK LEVEL	DETAILS
Collapsible Deposits	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Landslides	Very Low	Slope instability problems are unlikely to be present. No special actions
Running Sands	Very Low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
Shrink Swell Clay	Negligible	Ground conditions predominantly non-plastic.
Compressible Deposits	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits.
Ground Dissolution of Soluble Rocks	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution.

Table 4.3: Ground Subsidence Records

4.1.6. BGS Estimated Background Soil Chemistry

Estimated background urban soil chemistry concentrations on site are as follows: arsenic 14-16mg/kg; cadmium 0.9-1.4mg/kg; chromium 66-78mg/kg; nickel 23-29mg/kg, lead 119-236mg/kg.

4.2. Hydrology

4.2.1. Surface Water Features

A manmade canal is present 7m south of the site.

4.2.2. Flooding

There are no Environment Agency floodplain zones present within 50m of the site boundary. There is a moderate risk of groundwater flooding across the site and surrounding area.

4.3. Controlled Waters

4.3.1. Abstraction Licenses

There are no abstractions within 500m of the site, inclusive of potable abstractions.

4.3.2. Source Protection Zones

There are no SPZs within 500m of the site boundary.

4.4. Designated Environmentally Sensitive Sites

The London Green Belt is 250m north-east of the site.

4.5. Nitrate Vulnerable Zones

There are no NVZs within 2000m of the site.

5. ENVIRONMENTAL RECORDS REVIEW

The following information has been obtained from public archive via the data supplier Groundsure or by direct application. The full Enviro Insight Groundsure Report is included as Appendix 5. The subsequent review focusses on records within 50m of the outlined development site for above ground features or within 250m for potentially infilled features, or those which are considered relevant to the proposed development. Ridge have not included data from Groundsure's own review of historical maps.

5.1. Groundsure Record Search

The following observations are taken from the British Geological Survey (BGS) GeoIndex (2025) and the Enviro Insight Report (Appendix 5).

5.1.1. Historical Industrial Land Uses

The following records relate to historical industrial land uses in the site's proximity:

- Unspecified commercial / industrial, on site, 1990
- Unspecified works, on site, 1970
- Unspecified factory, on site, 1970-1975
- Railway sidings, 16-84m S, 1894-1960
- Printing works and unspecified works, 34-49m SE, 1913-1975
- Railway building, 47m SW, 1975-1990
- Industrial park, 49m SE, 1990
- Dock, 53m SE, 1894
- Chemical works, 57m S, 1932
- Unspecified pit, 58m S, 1868
- Unspecified works, 62m S, 1975-1990
- Helical gear works, 63m S, 1938
- Brick field, 65-71m S, 1894-1898
- Pumping works, 66m SE, 1938
- Railway building, 70m SE, 1938

5.1.2. Historical Petrol Stations and Garages

There are no records of petrol stations or garages within 300m of the site.

5.1.3. Historical Tank Database

There are no records within 140m of the site boundary.

5.1.4. Historical Energy Features

All records within 100m are in relation to electricity substations, as outlined below:

- On site, 1989-1992
- 12-13m NW, 1978-1989
- 73m E, 1978-1989
- 82m E, 1992

5.1.5. Waste and Landfill

There are numerous records of storing and treating waste exemptions 37m east of the site, as well as a treating waste exemption 37m west.

5.1.6. Environmental Permits, Incidents, Registers and Consents

No pertinent records within proximity to the site.

5.1.7. Current Industrial Land Uses

The following records relate to pertinent current industrial land uses in the site's proximity. Some of the land uses highlighted in the record search have been disregarded as they are not true industrial land uses.

- 'Pinnacle Doorsets' (industrial products), on site
- 'Horton Service Centre Ltd', on site
- Industrial estate, on site
- 'Hydrodragon London Ltd' (consumer products), on site
- 'Horton Road Bodyshop' (repair and servicing', on site
- Electricity substation, on site
- Electricity substation, 11m SE
- Electricity substation, 23m NW
- 'Reliance Worldwide Corporation UK' (industrial products), 37m E
- 'Minster' (industrial products), 42m W
- Electricity substation, 56m SW
- 'D K Tools Ltd' (industrial products), 57m NW
- Electricity substation, 75m NW
- Electricity substation, 79m SE
- Electricity substation, 90m E

5.2. Local Authority Consultation

5.2.1. Planning History

According to the Hillingdon Council, the following planning application is associated with the site's location:

- 68023/APP/2014/428 – January 2014 – application under Schedule 7 of the Cross Rail Act 2008 for approval of site restoration scheme to restore the worksites and temporary areas used for the reconstruction of the new road bridge. Approved.

5.2.2. Contaminated Land Officer

The Hillingdon Council were contacted for pertinent information relating to the site and immediate surroundings on 14 February 2025. A response had not been provided at the time of writing this report – if prudent information is supplied it will be submitted within a report addendum.

5.3. Potential Sources of Contamination – Records Review

Contaminant sources considered to present a potential risk to the site are detailed in the table below.

POTENTIAL SOURCES OF CONTAMINATION CONSIDERED A RISK TO THE SITE		
FEATURE	DISTANCE, DIRECTION	APPROX. DATES
Historical on-site industrial land use, namely commercial / industrial, works, and factory	On site	1970-1990
Current on-site industrial land use associated with the industrial estate	On site	Current
Electricity substation (built before the PCB ban)	12-13m NW	1978-1989
Land use associated with the railway track to the sites south, namely railway sidings (16-84m S), and two railway buildings (47m SW and 70m SE)	16-84m S/SW/SE	1938-1990
Printing works, unspecified works, and the industrial park within 50m of the site	34-49m SE	1913-1975

Table 5.1: Potential Sources following Records Review

Potential contamination sources not considered to represent a significant risk to the site are detailed below. These features will not be considered further within the risk assessment.

POTENTIAL SOURCES NOT CONSIDERED FURTHER	
FEATURE	JUSTIFICATION
Current and historical electricity substation, on site, current and 1989-1992	Built after the 1981 PCB ban, reducing contamination potential.
Six current electricity substations, 11-90m	Most likely built after the 1981 PCB ban.
Storing & treating waste exemptions, 37m E & W.	Limited contamination potential especially when considering distance from site.
Other off-site current industrial land use, 37-57m.	Distance from site reduces contamination potential, and likely to be constructed to a higher standard.
Historical land uses greater than 50m to the sites south,1868-1990	This area is now largely residential, meaning any potential contamination should have been sufficiently cleared.
Electricity substations, 73 & 82m E, 1978-1989 & 1992	Distance from site reduces contamination potential.

Table 5.2: Potential Sources not considered further.

6. PRELIMINARY CONCEPTUAL SITE MODEL

The preliminary conceptual site model represents an assessment of the current status of the site and the likelihood of a pollutant linkage for each identified potential combination of contaminant, pathway and receptor.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance[1]) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

6.1. Potential Sources

It should be noted that additional sources of contamination may become apparent during any future investigation and development of the site.

6.1.1. On-Site

- Historical on-site industrial land use, namely commercial / industrial, works, and factory from 1970 to 1990.
  - Contaminants of concern (CoC) include heavy metals, solvents, polycyclic aromatic hydrocarbons (PAHs) and petroleum hydrocarbons (TPHs).
  - CoC also include those commonly identified in Made Ground such as asbestos, heavy metals and PAHs.
  - Although limited, there is considered to be some potential for soil vapour and ground gas generated by Made Ground beneath the site.

- Current on-site industrial land use associated with the industrial estate.
  - CoC include asbestos, heavy metals, solvents, PAHs and TPHs.
  - Although limited, there is considered to be some potential for soil vapour based on possible hydrocarbon specific sources.

- Development and subsequent demolition of on-site structures from circa 1875-1992.
  - CoC include those commonly identified in Made Ground such as heavy metals, PAHs, and asbestos. Asbestos formerly within fabric of structures may have been mixed with soils to create asbestos containing soils (ACS).
  - Although limited, there is considered to be some potential for ground gas. Ground gas potential will be dependent on the make-up of Made Ground beneath the site i.e. degradable and organic content.

6.1.2. Off-Site

- Factory present 1m west of site between 1965 to 1992.
  - Contaminants of concern (CoC) include heavy metals, solvents, PAHs and TPHs
  - Although limited, there is considered to be some potential for soil vapour and ground gas generated by Made Ground beneath the site.

- Electricity substation 12-13m NW built after the PCB ban (1978-1989)
  - CoC include TPHs, fuel & lubricants, polychlorinated biphenyls (PCBs), and heavy metals.

[1] HSE (1991). "Protection of Workers and the General Public During Development of Contaminated Land". London HMSO.

- There is not considered to be a risk from ground gas or soil vapour associated with this feature.

- Land use associated with the railway track to the sites south, namely railway sidings (16-84m S), and two railway buildings (47m SW and 70m SE).
  - CoC include metals, phenols, sulphates, and PAHs from ash ballast, as well as fuel oils, lubricating oils, and greases.

- Printing works, unspecified works, and the industrial park within 50m of the site.
  - CoC include heavy metals, solvents, PAHs and TPHs
  - CoC also include those commonly identified in Made Ground such as asbestos, heavy metals and PAHs.
  - There is not considered to be a risk from ground gas or soil vapour associated with this feature.

6.2. Pathways

The key environmental pathways and exposure routes by which potentially toxic substances can reach the identified potential receptors are considered to be:

6.2.1. Indirect

- Vertical and lateral migration of ground gas and soil vapours leading to accumulation in enclosed spaces.
- Vertical and lateral migration of organic and inorganic compounds through underlying geology.
- Windblown dust and fibres to adjacent receptors.
- Surface run off.

6.2.2. Direct

- Inhalation of ground gases.
- Inhalation of vapours.
- Inhalation of contaminated dust.
- Dermal contact.
- Direct contact with services (potable water).

6.3. Receptors

Receptors that may be affected by the potential contamination are considered to be:

6.3.1. Human

- End users of the site.
- Offsite land users.
- Maintenance workers once the development is complete.

6.3.2. Environmental

- Underlying Principal Superficial aquifer.
- Canal 7m south.

6.3.3. Structural

- Buildings.
- Potable water pipes.

7. RISK ASSESSMENT

7.1. Risk Assessment Procedure

By considering the sources, pathways and receptors (pollutant linkages), an assessment of the human health/ environmental risks is made with reference to the significance and degree of the risk. This assessment is based on consideration of whether the contamination source can reach a receptor and hence whether it is of major or minor significance.

The risk assessment has been undertaken with reference to BS 10175:2011+A1:2013 and CIRIA Document C552: Contaminated Land Risk assessment 'A Guide to Good Practice'. The risk assessment has been carried out by assessing the severity of the potential consequence, considering both the potential magnitude of the hazard and the sensitivity of the target, based on the categories given below.

CATEGORY	EXAMPLES
High	Residential with gardens/Groundwater Source Protection Zone
Medium	Residential without gardens/Principal/Secondary Aquifer/sensitive watercourse
Low	Commercial and industrial use/Undifferentiated Aquifer
Very Low	Maintenance workers using appropriate PPE/non classified water body

Table 7.1: Sensitivity of Receptor

CATEGORY	EXAMPLES
Gross Impact	Heavily contaminated gasworks or industrial site, hazardous waste landfill. Major spillages into controlled waters. Explosions causing building collapse.
Moderate Impact	Leaks and spills from fuel infrastructure (e.g. petrol stations) (not into controlled waters), domestic waste landfills, demolished buildings. Leaching of contaminants into a major or minor aquifer.
Slight Impact	Minor leaks and spills from fuel infrastructure, 'inert' waste landfills, pollution of non-classified ground water.

Table 7.2: Magnitude of Impact

	SENSITIVITY OF RECEPTOR			
MAGNITUDE OF IMPACT	High	Medium	Low	Very Low
Gross Impact	Severe	Medium	Mild	Minor
Moderate Impact	Medium	Mild	Minor	Minor
Slight Impact	Mild	Minor	Minor	Minor

Table 7.3: Level of severity of potential hazard

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given below.

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

Table 7.4: Classification of Probability

The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

	SENSITIVITY OF RECEPTOR			
PROBABILITY OF RISK	Severe	Medium	Mild	Minor
High likelihood	Very High	High	Moderate	Low/Moderate
Likely	High	Moderate	Low/Moderate	Low
Low likelihood	Moderate	Low/Moderate	Low	Very Low
Unlikely	Low/Moderate	Low	Very Low	Very Low

Table 7.5: Level of risk for potential hazard definition

The assessment is discussed below in terms of plausible pollutant linkages. A complete assessment of the pollutant linkages is presented in Table 7.6.

A description of these risk classifications and likely action required are given in CIRIA 552 as:

Very high risk – 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 substantial liability. Urgent investigation and remediation are likely to be required.

High risk – Harm is likely to arise to a designated receptor from an identified hazard. This risk, if realised, is likely to result in substantial liability. Urgent investigation is required, and remedial works may be necessary in the short term and are likely over the long term.

Moderate risk – It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is normally required to clarify risks and to determine potential liability. Some remedial works may be required in the long term.

Low risk – It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.

Very low risk – It is a low possibility that harm could arise to a designated receptor. In the event of such harm being realised it is not likely to be severe.

7.2. Discussion

7.2.1. Ground Gas Risk Potential

In accordance with applicable guidance, including *NF94 Hazardous Ground Gas – an essential guide for housebuilders – NHBC (2023),* the Preliminary Risk Assessment for ground gas includes the assessment of factors below:

- Organic Content: there are no landfill records in proximity of the site and no significant amounts of vegetation, reducing the risk associated with organic content. The site is also classified as urban, non-agricultural land.

- Available degradable material proportion: potentially degradable materials include wood and timber. Readily available degradable material such as fresh vegetable matter and food waste are the key indicators of a high generation potential that can cause hazardous quantities of gas. This is not expected on site due to its historical use.

- Nature of fill material: the extensive Made Ground likely to be on site may also be encountered to significant depths, creating potential for significant volumes of gas to be generated. However, if layers of Made Ground cohesive and dense / stiff the rate that gas can escape will be limited.

- Presence of preferential pathways: lateral migration of hazardous ground gas is normally via permeable soils (such as sand & gravel) or preferential pathways, which include open fractures or fissures in bedrock and below ground service infrastructure with granular backfill – the presence of superficial sand & gravel and any fissures in the Made Ground may act as a preferential pathway.

7.2.1.1. Ground Gas Potential

Following review of the above factors, the preliminary gassing potential for the site is **Low**.

7.2.2. Groundwater

It is acknowledged that groundwater below the site is of Medium sensitivity. Nevertheless, groundwater is expected to at reasonable depth, limiting the occurrence of shallow contaminants impacting this resource. There are records of a borehole 147m east of site encountering water at 2.89mbgl.

Furthermore, due to the majority of the proposed development being hardstanding, infiltration will be limited, which will in turn limit the mobility of contaminants. It is deemed to be of low likelihood that groundwater would be influenced by any contamination.

7.3. Preliminary Conceptual Model

The below assessment has been compiled based on the current site status.

SOURCE	PATHWAY	RECEPTOR	SEVERITY	LIKELIHOOD	RISK LEVEL
Historical on-site industrial land use, namely commercial / industrial, works, and factory from 1970 to 1990.	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End users	Minor	Unlikely	Very Low
		Offsite receptors	Minor	Unlikely	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Mild	Low Likelihood	Low
		Canal	Mild	Low Likelihood	Low
Current on-site industrial land use associated with the industrial estate.	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End users	Minor	Unlikely	Very Low
		Offsite receptors	Minor	Unlikely	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Mild	Low Likelihood	Low
		Canal	Mild	Low Likelihood	Low
Ground gas associated with development and subsequent demolition of on-site structures from circa 1875-1992.	Migration of ground gas through the underlying geology. Inhalation of ground gas.	End users	Minor	Low Likelihood	Very Low
		Offsite receptors	Minor	Low Likelihood	Very Low

Table 7.6 continues overleaf:

SOURCE	PATHWAY	RECEPTOR	SEVERITY	LIKELIHOOD	RISK LEVEL
Factory present 1m west of site between 1965 to 1992.	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End users	Minor	Low Likelihood	Very Low
		Offsite receptors	Minor	Low Likelihood	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Mild	Low Likelihood	Low
		Canal	Mild	Low Likelihood	Low
Electricity substation 12-12m NW built after the PCB ban (1978-1989).	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End Users	Minor	Low Likelihood	Very Low
		Offsite receptors	Minor	Low Likelihood	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Minor	Unlikely	Very Low
		Canal	Minor	Unlikely	Very Low
Land use associated with the railway track to the sites south, namely railway sidings (16-84m S), and two railway buildings (47m SW and 70m SE).	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End Users	Minor	Low Likelihood	Very Low
		Offsite receptors	Minor	Low Likelihood	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Mild	Low Likelihood	Low
		Canal	Mild	Low Likelihood	Low

Table 7.6 continues overleaf:

SOURCE	PATHWAY	RECEPTOR	SEVERITY	LIKELIHOOD	RISK LEVEL
Printing works, unspecified works, and the industrial park within 50m of the site.	Direct contact, ingestion, and inhalation of impacted soils / groundwater. Windblown dust.	End Users	Minor	Low Likelihood	Very Low
		Offsite receptors	Minor	Low Likelihood	Very Low
	Vertical migration of contaminants through the underlying geology and / or via overland flow.	Principal Aquifer – superficial	Minor	Low Likelihood	Very Low
		Canal	Minor	Low Likelihood	Very Low

Table 7.6: Preliminary Conceptual Model

8. CONCLUSIONS AND RECOMMENDATIONS

8.1. Contamination

Following site the reconnaissance and a review of available records, it is considered that there is sufficient information on the potential contaminative status of the site to allow conditional approval of a planning application, based on the proposed end use detailed in the PRA. The following contamination sources are considered to be potentially present:

- Heavy metals, solvents, PAHs, TPHs and asbestos originating from historical on-site industrial land use, namely commercial / industrial, works, and factory from 1970 to 1990.
- Asbestos, heavy metals, solvents, PAHs and TPHs associated with the industrial estate.
- Soil vapour and ground gas generated by Made Ground beneath the site.
- Heavy metals, solvents, PAHs and TPHs originating from the historical factory 1m west of the site.
- Heavy metals, solvents, PAHs and TPHs as well as potential soil vapour and ground gas associated with the historic factory 1m west of the site.
- TPHs, fuel & lubricants, polychlorinated biphenyls (PCBs), and heavy metals associated with the historic substation 12-12m north-west of the site.
- Metals, phenols, sulphates, and PAHs from ash ballast, as well as fuel oils, lubricating oils, and greases originating from land use associated with the railway track to the sites south.
- Heavy metals, solvents, PAHs and TPHs and other contaminants commonly identified in Made Ground such as asbestos, associated with the printing works, unspecified works, and the industrial park within 50m of the site.

8.1.1. Risk Ratings

At present, risk levels are considered to be **Low** as a worst case.

A **Low** risk level is defined as '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.'

8.2. Geotechnical

A review of key geotechnical aspects is provided below.

8.2.1. Expected Ground Conditions

The desk-based information reviewed within this report indicates that a veneer of Made Ground and/ or topsoil is likely to be present over superficial deposits of the Lynch Hill Gravel Member, which are in turn underlain by bedrock geology of the London Clay.

8.2.2. Foundations

With reference to the published geology, historical borehole logs and the proposed development, it is considered likely that shallow foundations can be utilised for the proposed development. Foundations may need to be deepened where soft or loose ground is encountered or where relic foundations are present.

8.2.3. Drainage

Based on the expected geology traditional soakaways are likely to be viable due to the superficial geology on-site. Soakage testing in line with BRE365 should be carried out to confirm this.

8.2.4. Floor Slabs

Due to the size of the proposed units, a suspended floor slab may not be suitable. If Made Ground and poor natural soils are identified below the proposed units a ground bearing slab may be required over compacted, layered granular fill.

8.2.5. Other Considerations

Foundations and build material of previous buildings and structures could be present. This is likely to affect ground engineering and foundation design and construction. These features should be investigated as part of a geotechnical ground investigation.

Residual structures present on site will need to be demolished to enable the proposed development to take place. Foundations associated with them should be grubbed out.

The site contains a single mature tree on the eastern boundary. If soils are shrinkable, foundations may need to be deepened adjacent to this existing or any proposed trees.

Records suggest that the site has a history of surface ground workings just inside the southern border in relation to the canal to the south, as well as records of researched mining of stone on site – the potential presence of cavities and / or voids should be considered.

8.2.6. Earthworks / Site Levels

The topography of the site is generally flat with much of the site being approximately 30mAOD. The south and west of the site is at a slightly lower elevation of approximately 29.9mAOD, whilst the highest point is found on the eastern boundary at 30.53mAOD. It is therefore unlikely that any major earthworks will be required.

8.2.7. Material Re-use

It is recommended that masonry from former structures is crushed and screened and can then be used on site for infilling etc.

Subject to appropriate permitting and testing its considered likely that natural arisings from the site could be used as part of a clean cover system, subject to the appropriate assessment and testing.

8.3. Unexploded Ordnance (UXO)

The site is considered to be in an area at Low risk from UXO as per publicly available online resources[2]. It is not anticipated that further works will be required in relation to UXO risk on site.

8.4. Further Work

Based on the Low risk rating in 8.1.1, a contamination screening is considered necessary.

This should involve the collection of several samples for analysis of a generic contamination suite. Samples should be collected from worst case Made Ground. The composition of Made Ground should also be logged during the geotechnical ground investigation to allow further assessment of ground gas potential.

Samples should also be taken from above the water table, where encountered, to prove the absence of contamination and refine the risk level associated with the principal bedrock aquifer.

Geotechnical testing (such as TRL DCP testing) should also be carried out to determine foundation design.

A schedule of ground gas and groundwater monitoring should be carried out to confirm the Low preliminary gassing potential identified in this report.

A Watching Brief should be carried out by the Site Supervisor during construction and ground works in case any areas of contamination are identified. Ridge should be contacted in the first instance if any suspected contaminated soils are identified.

The scope of the investigation work should be agreed with the local authority prior to commencement.

[2] Zetica UXO. https://zeticauxo.com/guidance/risk-maps. Accessed 25 February 2025.

FIGURE 1 – SITE LOCATION PLAN

Project	Horton Road, West Drayton			**Title**	Site Location Plan
Job Number	5027861	**Client**	Le Masurier	RIDGE	1 Royal Court Kings Worthy Winchester SO23 7TW
Drawing	5027861-Fig1	**Revision**	-		
Drawn	OS	**Date**	March 2025		
Checked by	MS	**Scale**	NTS	Ridge and Partners LLP www.ridge.co.uk	TEL: 01962 834400

FIGURE 2 –DEVELOPMENT PLANS

DE 013 SITE LAYOUT PLAN
1:500

NOTES

KEY

PLANNING BOUNDARY

NOTE:
BOUNDARY TAKEN FROM INTERPOLATION OF TITLE
NOS. AGL 62061, NGL 566684 & NGL 264626

MICHAEL SPARKS ASSOCIATES

HORTON ROAD, WEST DRAYTON

COLOURED SITE LAYOUT PLAN

LE MASURIER

AUGUST 2025	1:500@A1	A1
FEASIBILITY	A0

31906 / FE / 013

APPENDIX 1 – REPORT CONDITIONS

Report Conditions

This report is produced solely for the benefit of **Le Masurier** and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the Site.

This report is based on a visual Site inspection, study of readily accessible referenced historical records, information supplied by those parties noted in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. Where ground contamination is suspected but no physical Site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to detailed activities related to the Site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, not revealed by this research cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies may have unpublished, often more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Ridge and Partners LLP. In time improved practices or amended legislation may necessitate a re-assessment.

The report is necessarily limited to those aspects of land contamination specifically reported on and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents that may occur. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the Site and adjacent Sites. The report concentrates on the Site as defined in the report and provides an opinion on surrounding Sites. If migrating pollution or contamination (past or present) exists, this can only practically be better assessed following extensive on and off Site intrusive investigations and monitoring.

APPENDIX 2 – LEGAL CONTEXT AND METHODOLOGY

Legal Context

Part IIA of the Environmental Protection Act 1990 (inserted by Section 57 of the Environment Act 1995) provides a regime for the control of specific threats to health or the environment from land contamination. In accordance with the Act and the statutory guidance document 'The Contaminated Land (England) Regulations 2000', the definition of contaminated land is intended to embody the concept of risk assessment. Within the meaning of the Act, land is only "contaminated land" where it appears to the Regulatory Authority, by reason of substances within or under the land, that:

"Significant harm is being caused, or there is a significant possibility of such harm being caused; or Pollution of controlled waters is being, or is likely to be, caused."

Inherent in this definition is the requirement for contamination risk assessment to be undertaken on a site-specific basis, as the potential for harm is determined by the Site's end use and its specific environmental setting. The guidance defines "risk" as the combination of:

- The probability, or frequency, of occurrence of a defined hazard (for example, exposure of a property to a substance with the potential to cause harm); and
- The magnitude (including the seriousness) of the consequences.

While Part IIA of the Environmental Protection Act provides a risk-based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment, the regime does not take into account future uses. New developments are therefore controlled by the planning regime, with reference to the National Planning Policy Framework (NPPF, 2024), rather than directly by Part IIA of the Environmental Protection Act.

The NPPF is based on the principal that the site should be suitable for its new use, taking account of ground conditions, including from natural hazards or former activities and states that "Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner". The NPPF also links the planning and Part IIA regimes by stating that "after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990". Key components of the Part IIA regime, such as the definition of Contaminated Land and the associated risk-based assessment approach, are therefore considered to also be applicable to the planning regime.

Methodology

This report has been prepared in accordance with published Environment Agency guidance – Land Contamination Risk Management (LCRM, 2020), which supersedes CLR 11. CLR 11 adopted and refined the well-recognised methodology and terminology that has been used in contaminated land risk assessment for a number of years.

In the context of land contamination, there are three essential elements to any risk:

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

Each of these elements can exist independently, but they create a risk only where they are linked together, so that a particular contaminant affects a particular receptor through a particular pathway. This kind of linked combination of contaminant–pathway–receptor is described as a pollutant linkage.

An important thread throughout the overall process of risk assessment is the need to formulate and develop a conceptual model for the site, which supports the identification and assessment of pollutant linkages. A conceptual model represents the characteristics of the site in diagrammatic or written form that shows the possible relationships between contaminants, pathways and receptors (pollutant linkages).

APPENDIX 3 – PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

SITE: HORTON ROAD, WEST DRAYTON
PROJECT NUMBER: 5027861

Photo No.	Date
1	13/02/25

Photo Title
Looking west down the side of Unit 1, adjacent to Horton Road.

Photo No.	Date
2	13/02/25

Photo Title
A view looking south down the site's central area.

PHOTOGRAPHIC LOG

SITE: HORTON ROAD, WEST DRAYTON
PROJECT NUMBER: 5027861

Photo No.	Date
3	13/02/25

Photo Title
A view of the eastern area of the site.

Photo No.	Date
4	13/02/25

Photo Title
Looking north back towards Horton Road from the site's centre.

PHOTOGRAPHIC LOG

SITE: HORTON ROAD, WEST DRAYTON
PROJECT NUMBER: 5027861

Photo No.	Date
5	13/02/25

Photo Title
The substation is the site's east.

Photo No.	Date
6	13/02/25

Photo Title
Looking down the western border in the south-west of the site.

PHOTOGRAPHIC LOG

SITE: HORTON ROAD, WEST DRAYTON
PROJECT NUMBER: 5027861

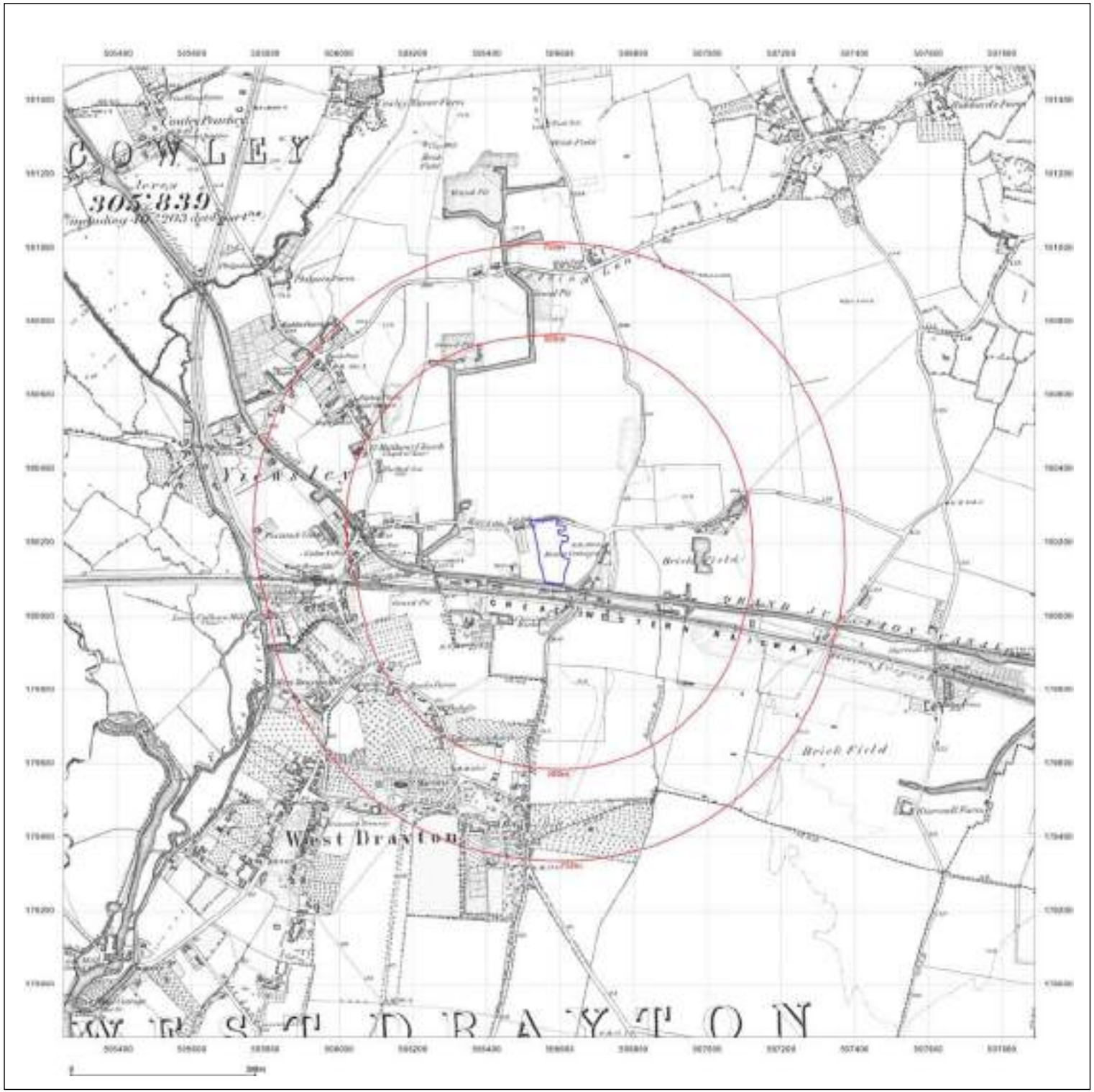
Photo No.	Date
7	13/02/25

Photo Title
A view of Units 10 & 11 in the south of the site.

Photo No.	Date
8	13/02/25

Photo Title
A view of Unit 6 towards the centre of the site.

APPENDIX 4 – HISTORICAL MAPS



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Grid Ref: 506570, 180174

Map Name: County Series
Map date: **1868**
Scale: 1:10,560
Printed at: 1:10,560

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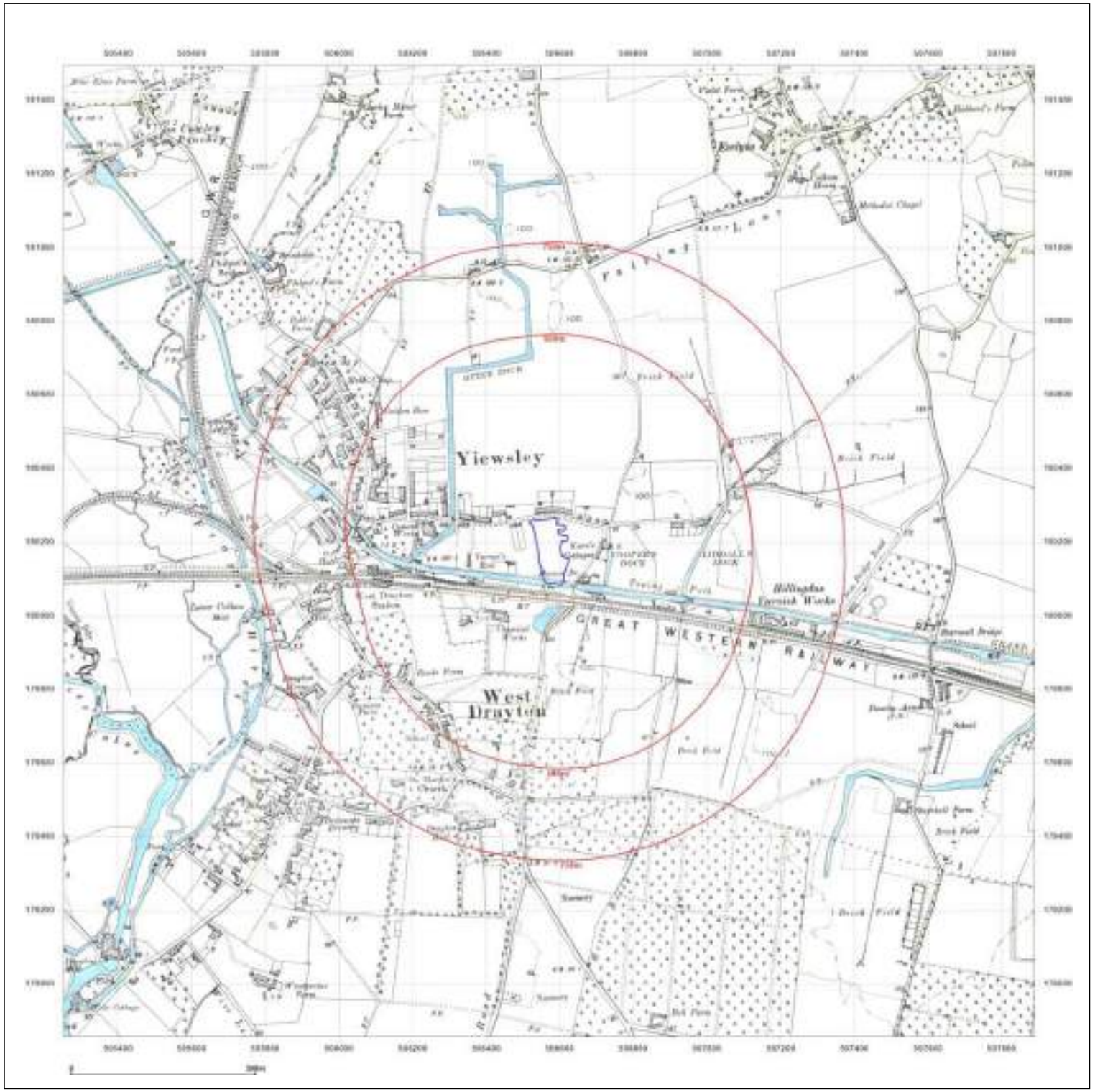

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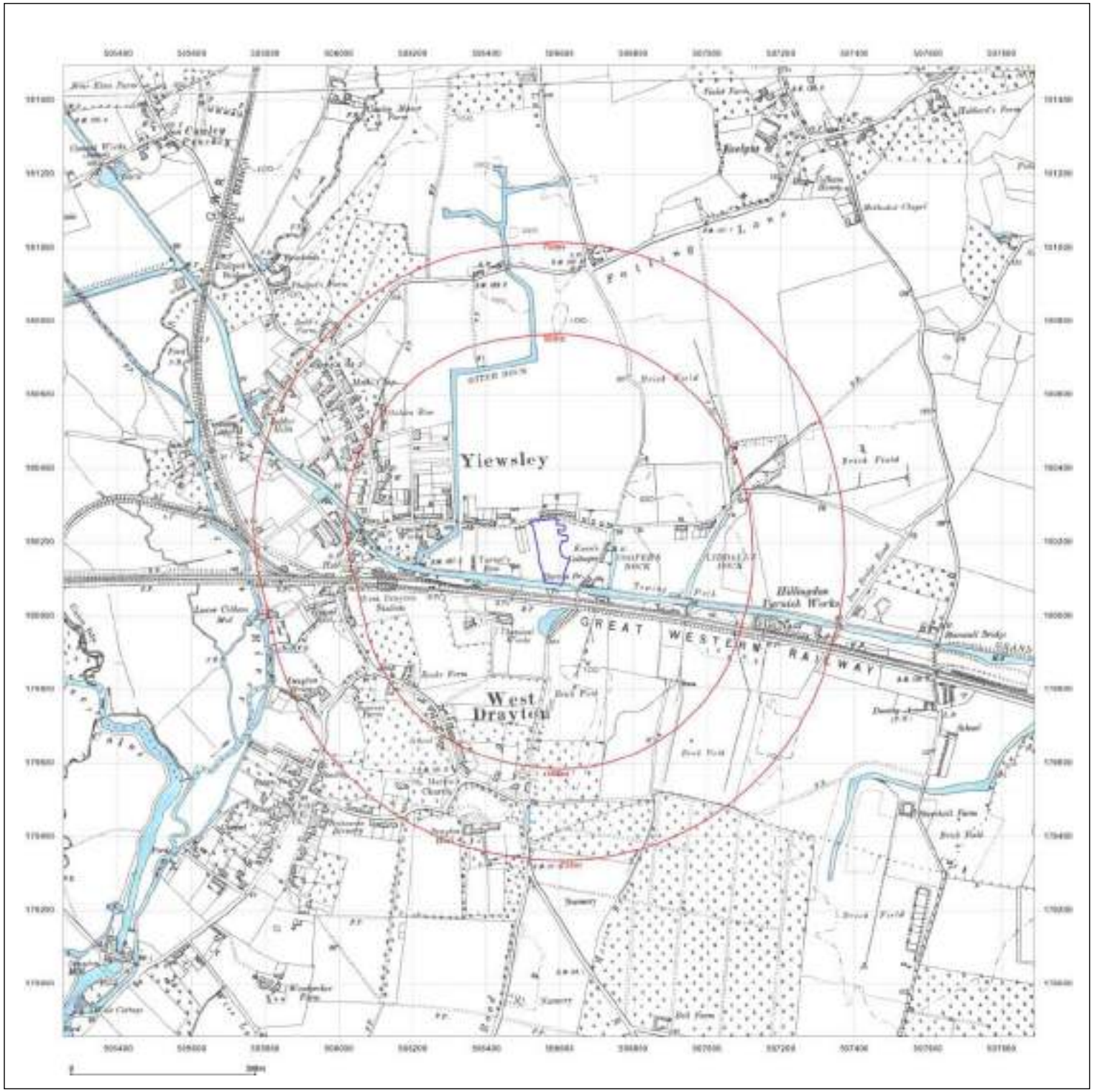

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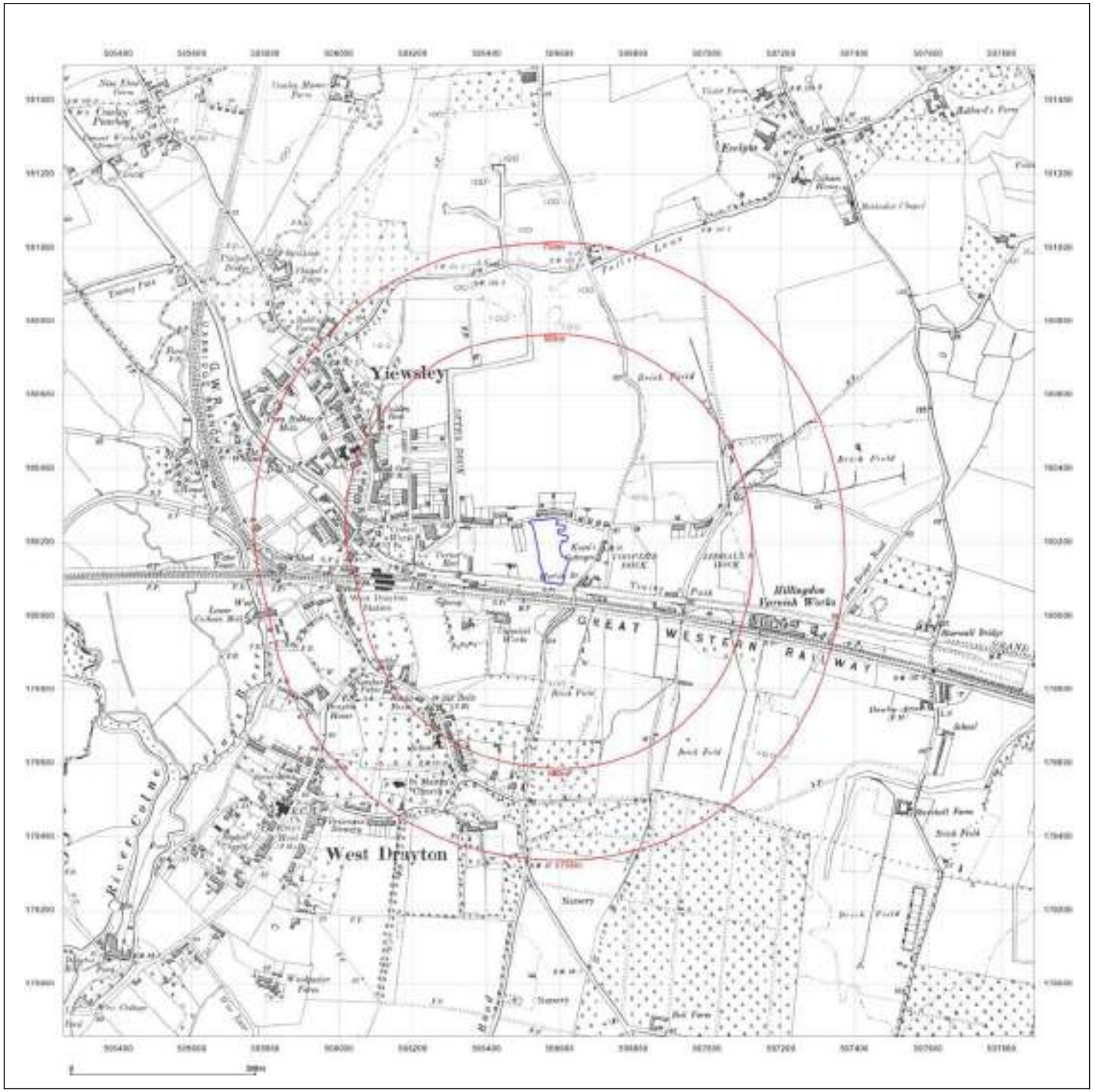

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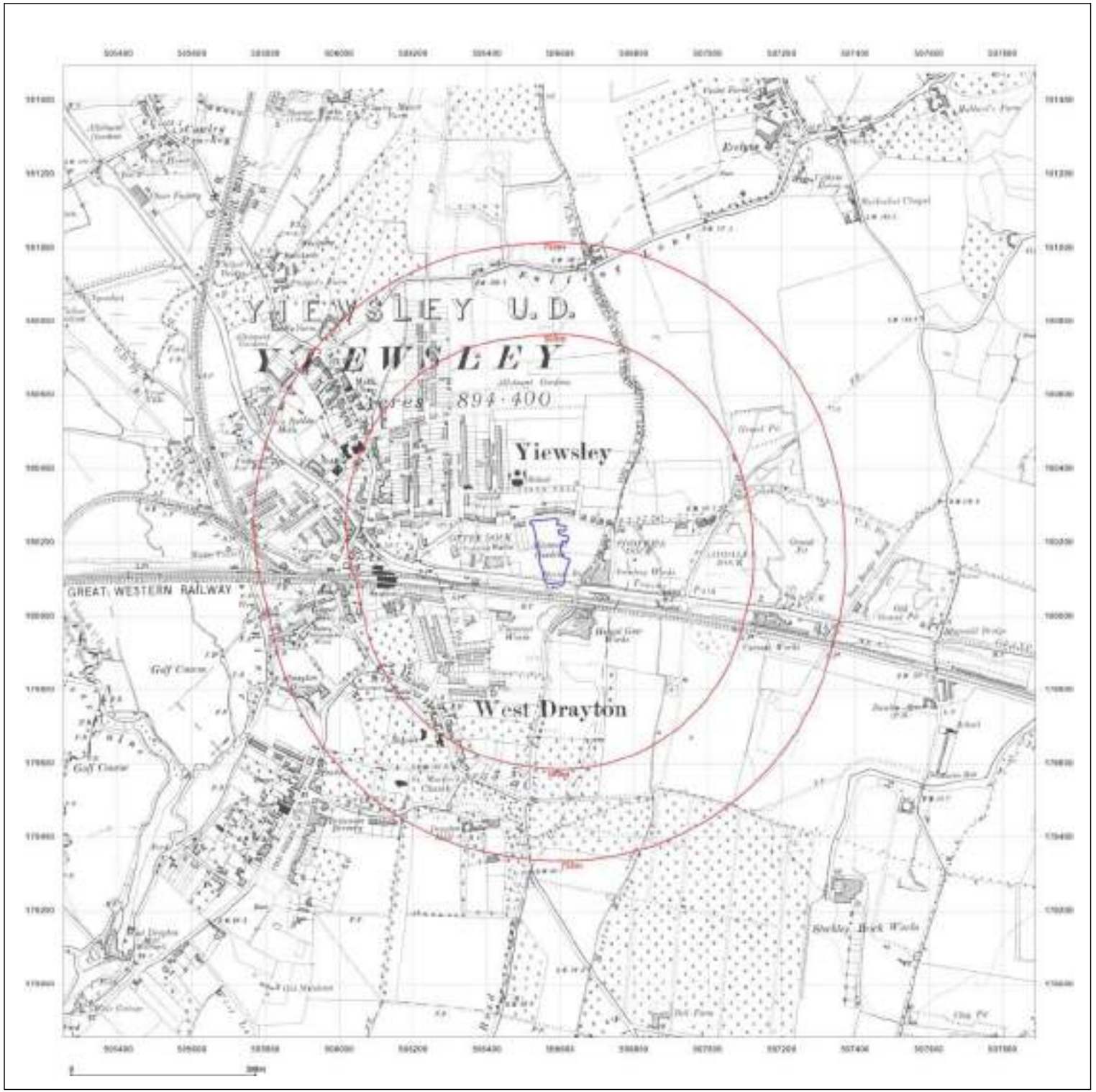

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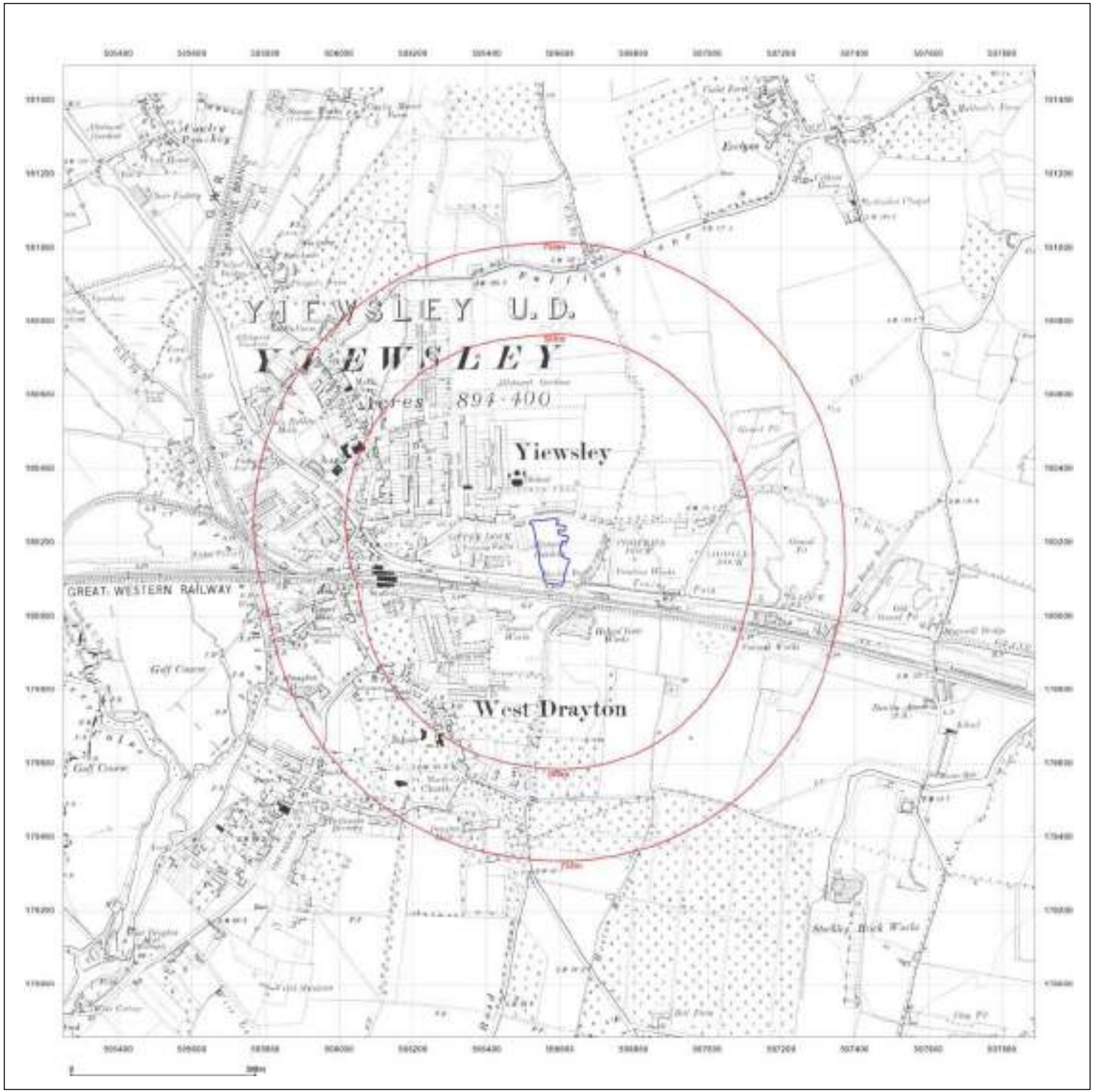

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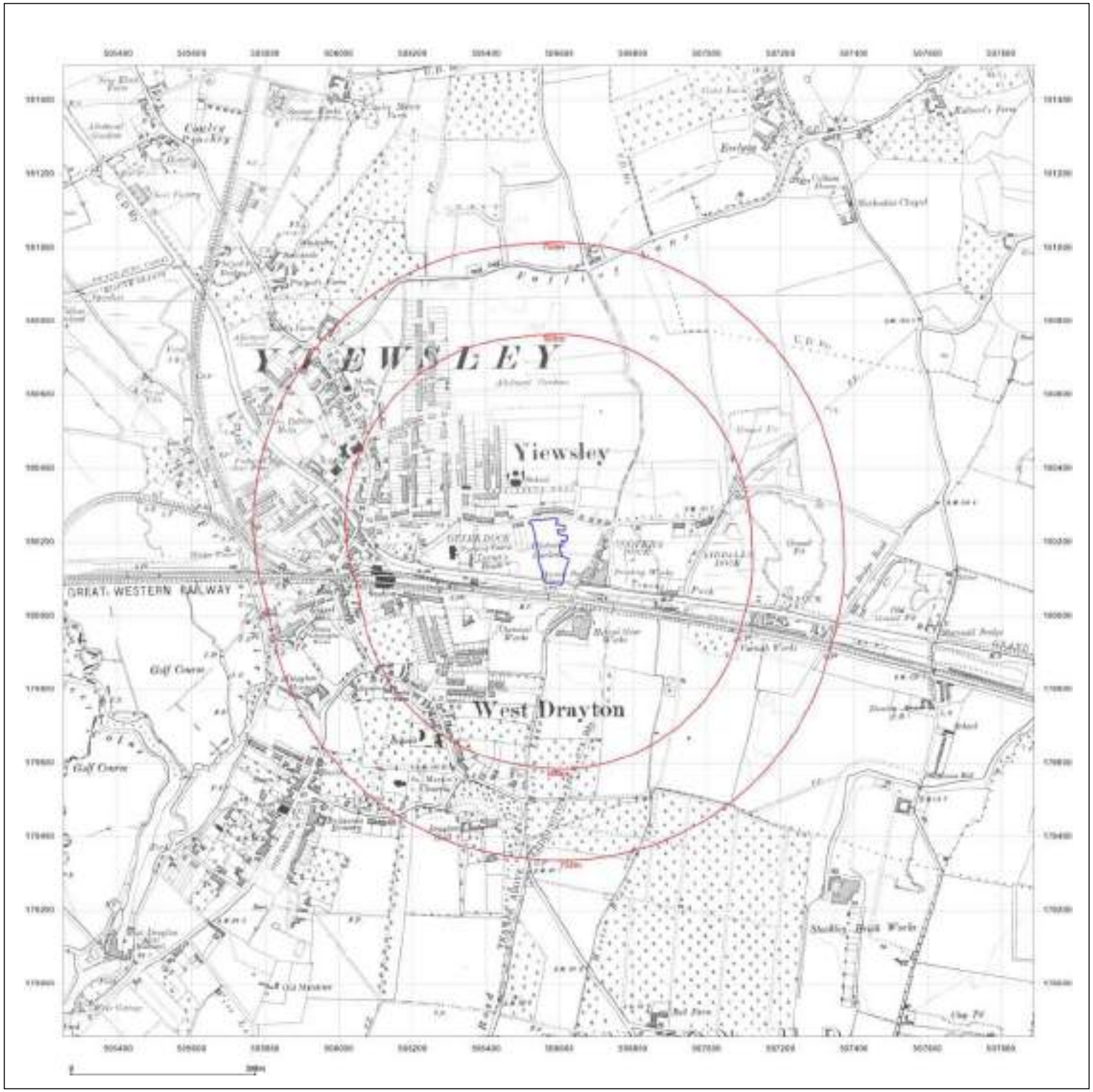

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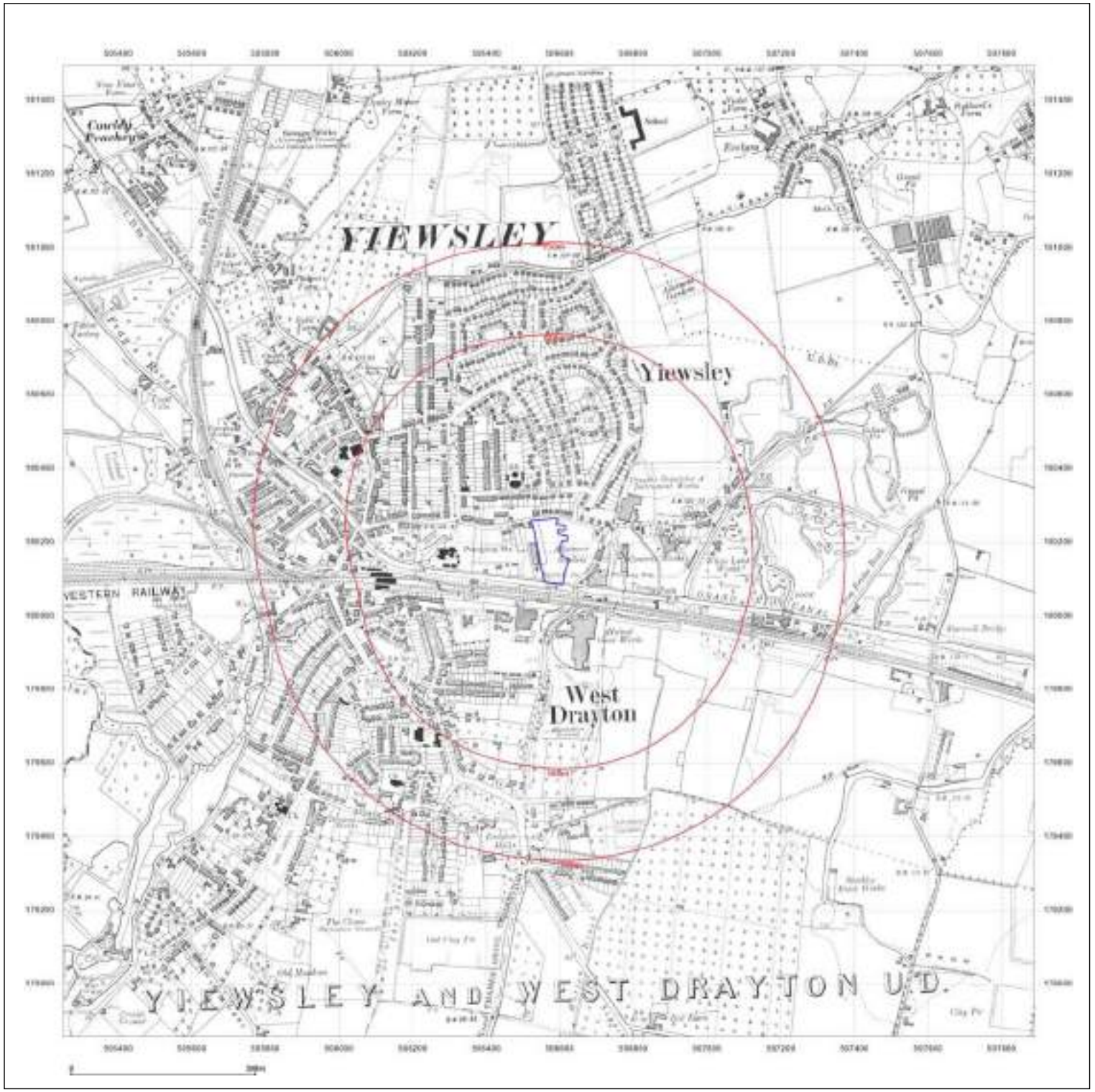

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Grid Ref: 506570, 180174

Map Name: County Series
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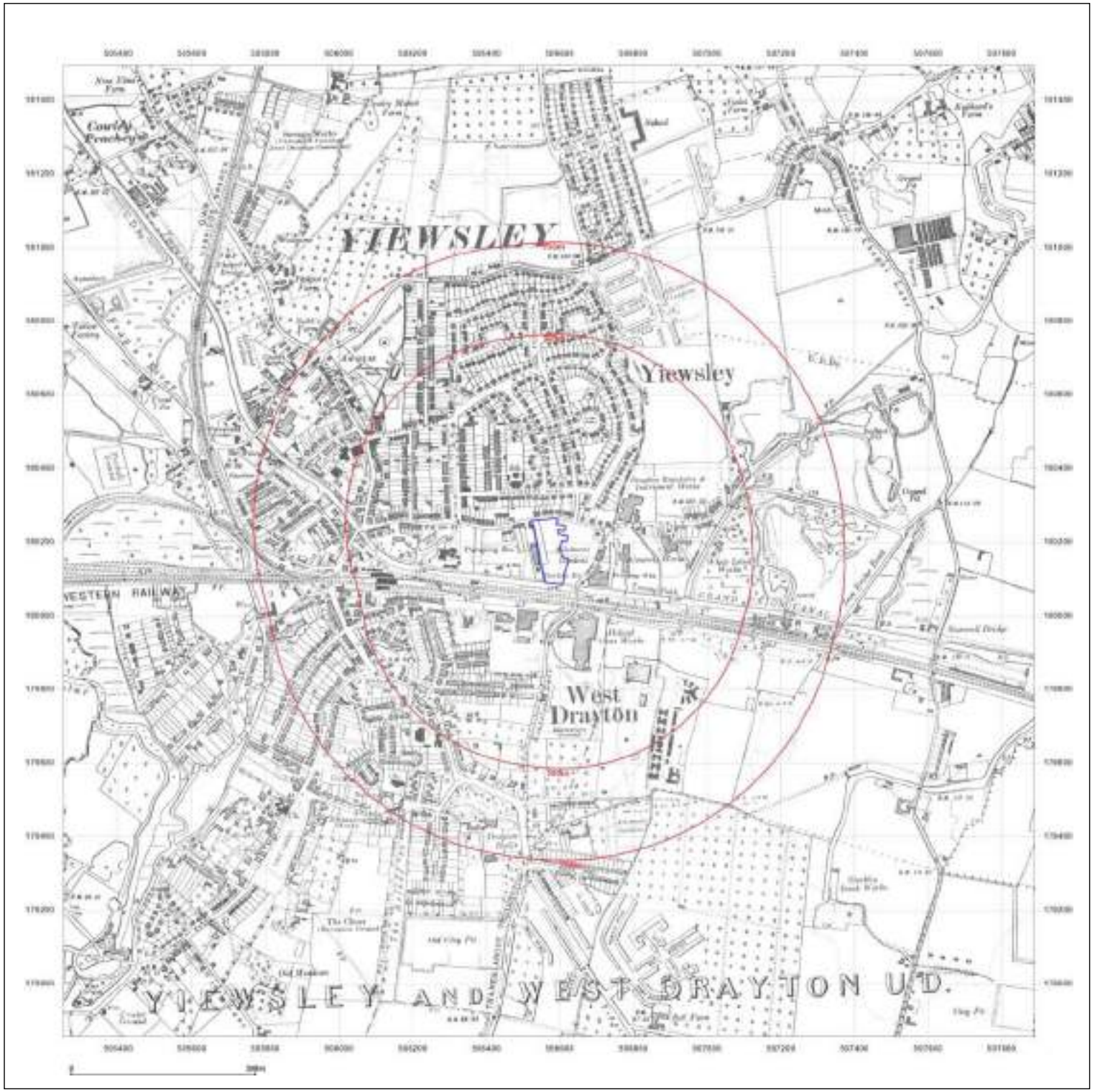

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Map Name: County Series

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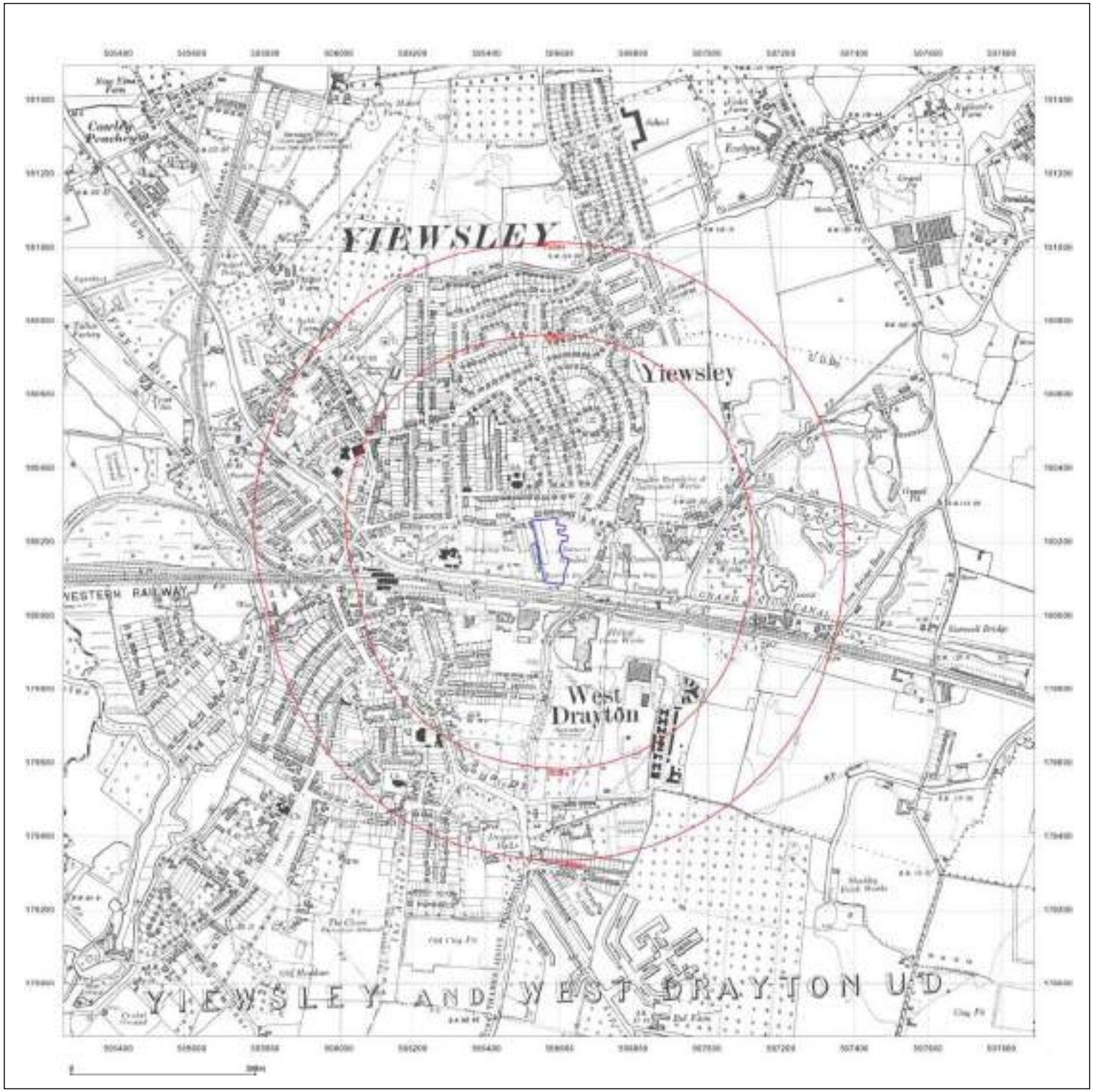

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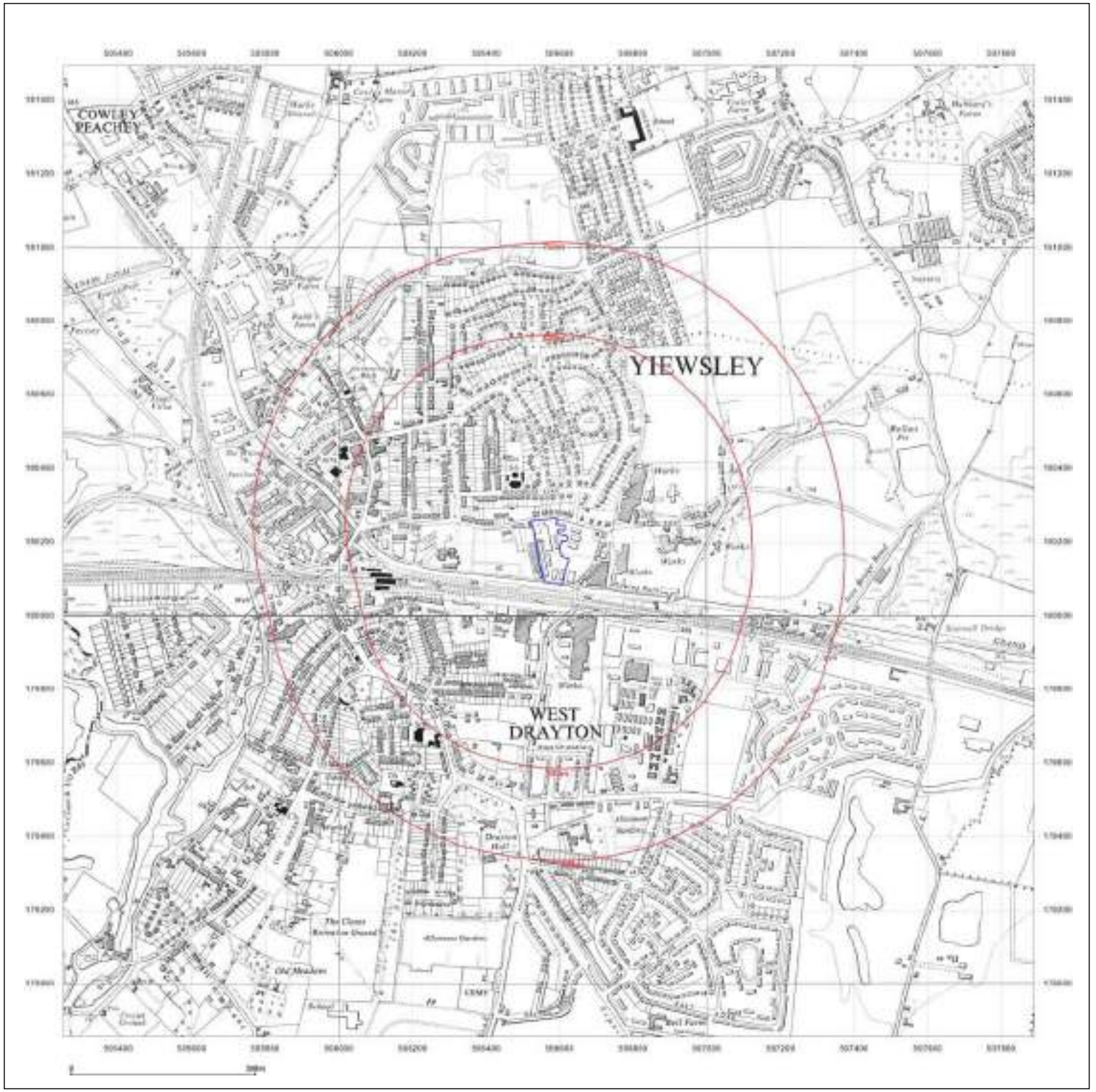

Groundsure INSIGHTS

Site Details:

5027861

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Printed at: 1:10,560

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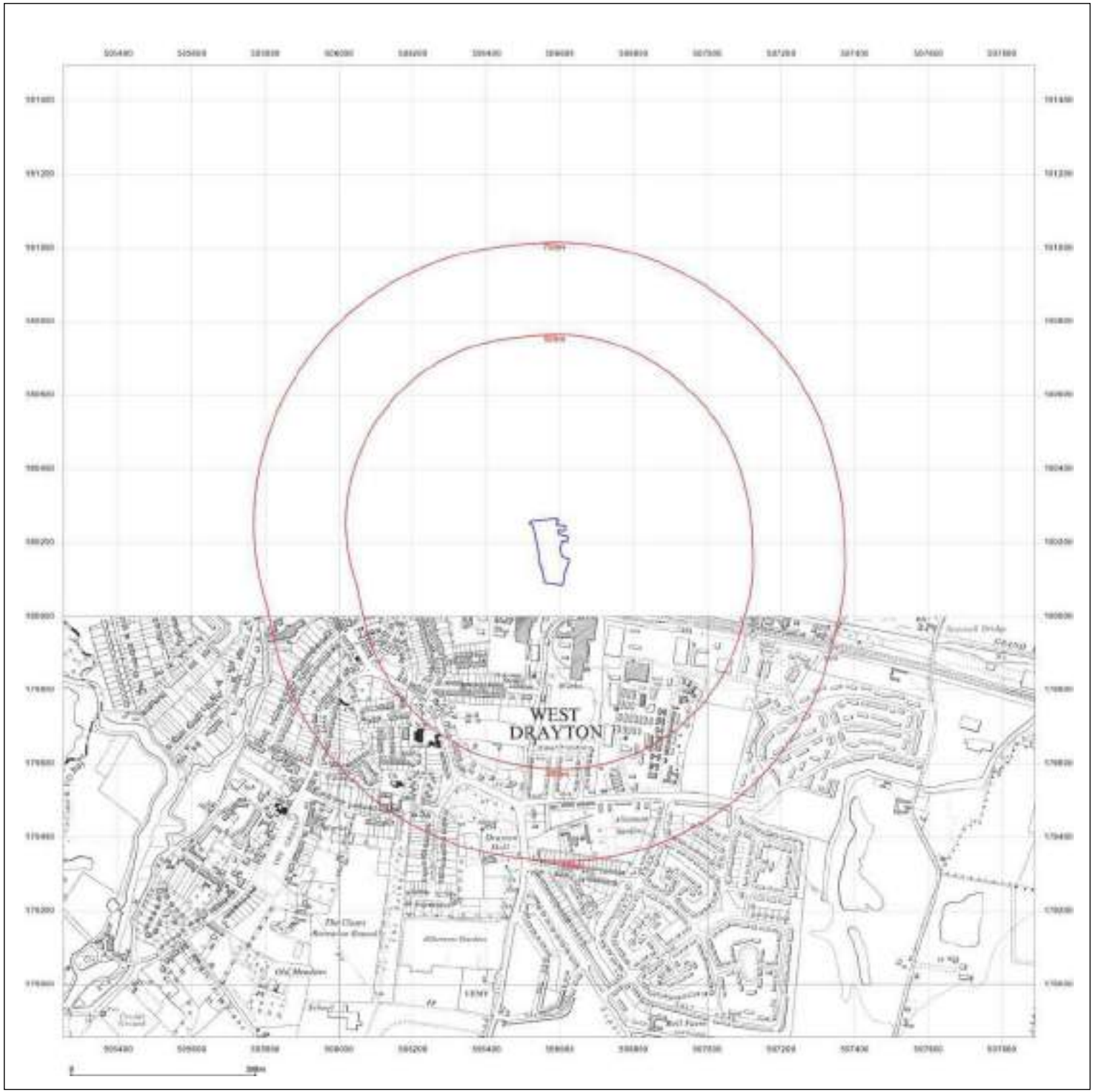
Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: Provisional
Map date: **1964**
Scale: 1:10,560
Printed at: 1:10,560

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Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: Provisional
Map date: **1970**
Scale: 1:10,560
Printed at: 1:10,560

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Production date: 06 February 2025

Map legend available at:
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Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:10,000

Printed at: 1:10,000

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Production date: 06 February 2025

Map legend available at:
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Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1987-1990**

Scale: 1:10,000

Printed at: 1:10,000

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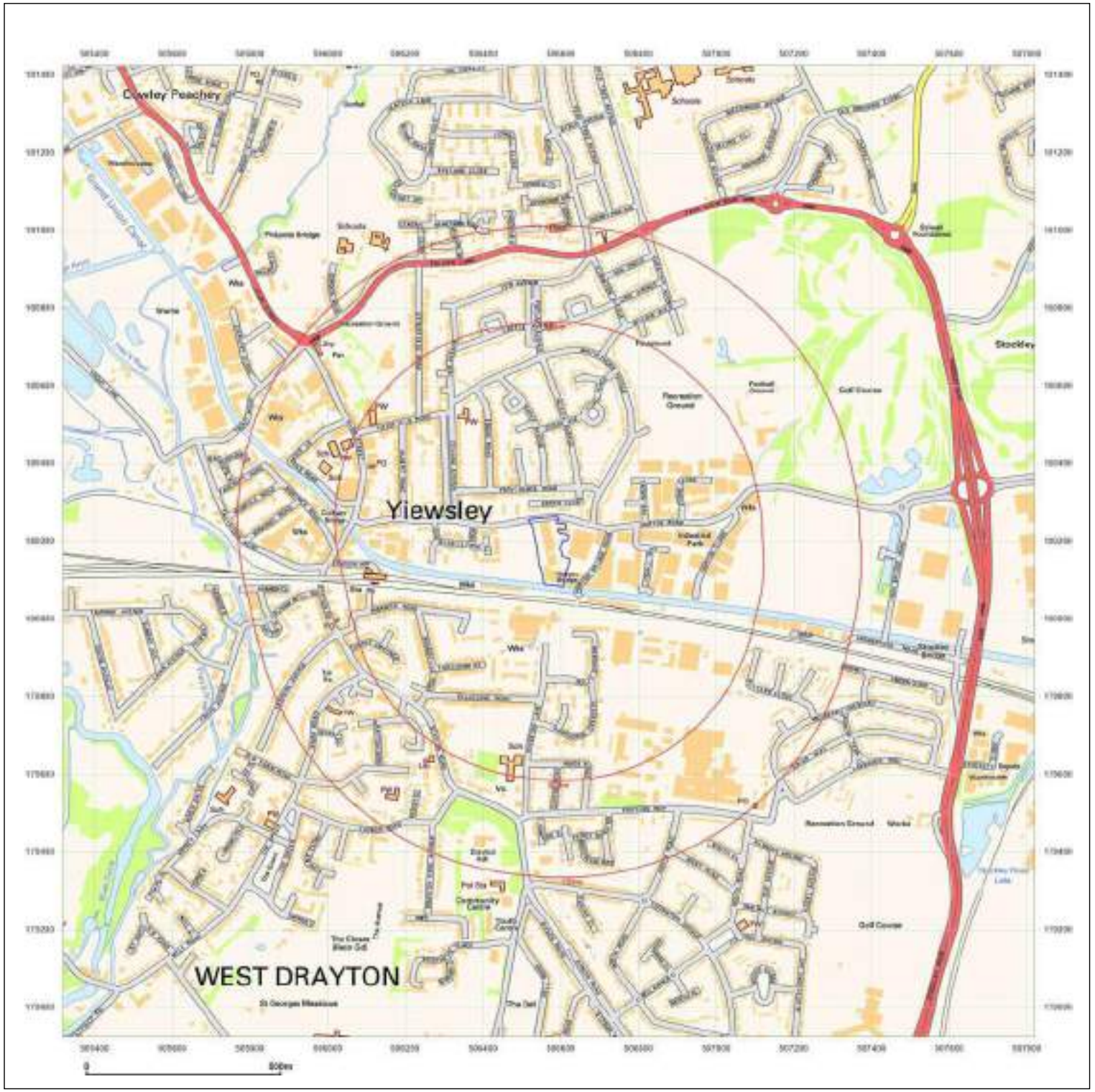
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: 2001
Scale: 1:10,000
Printed at: 1:10,000

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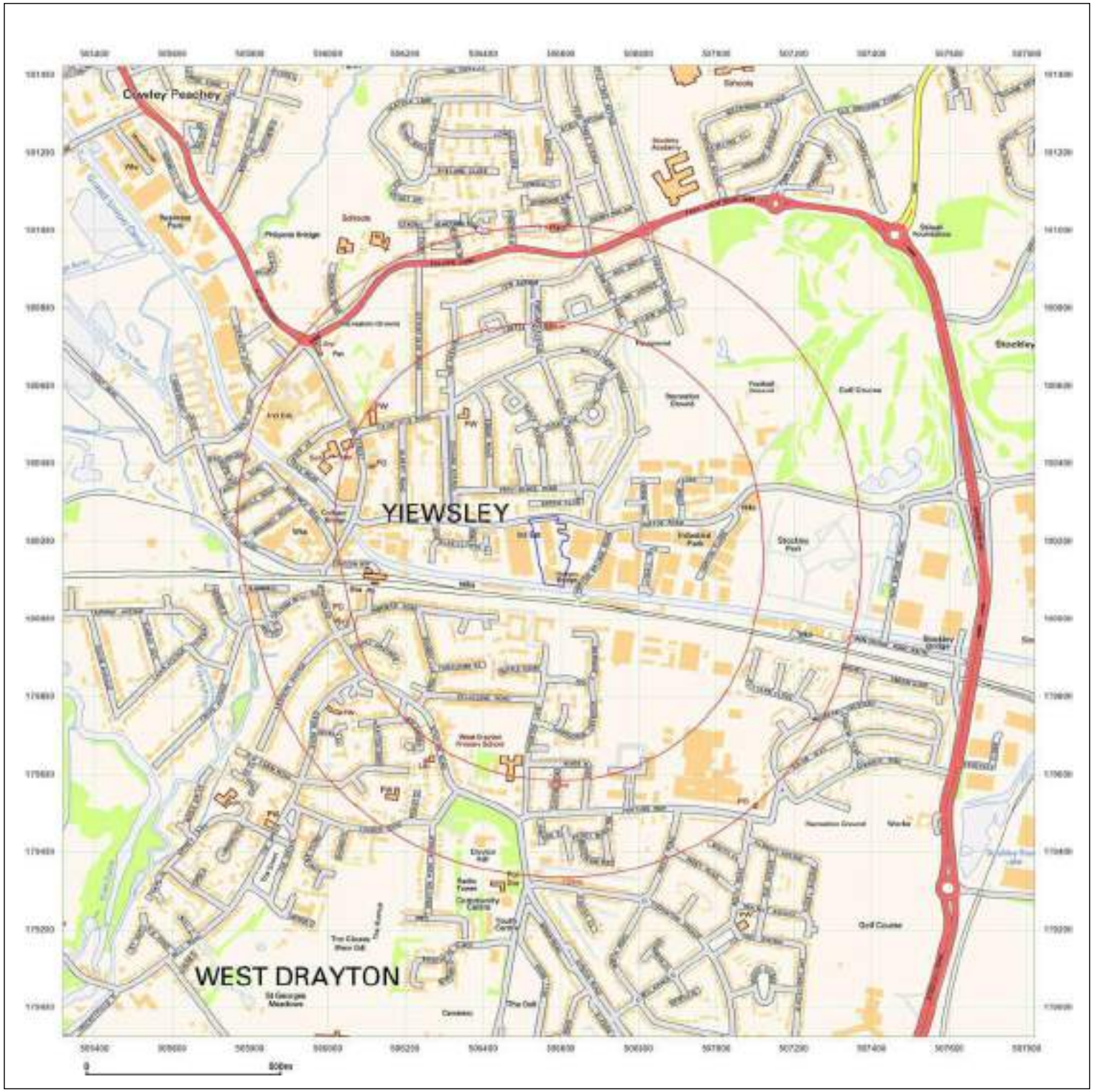
Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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Production date: 06 February 2025

Map legend available at:
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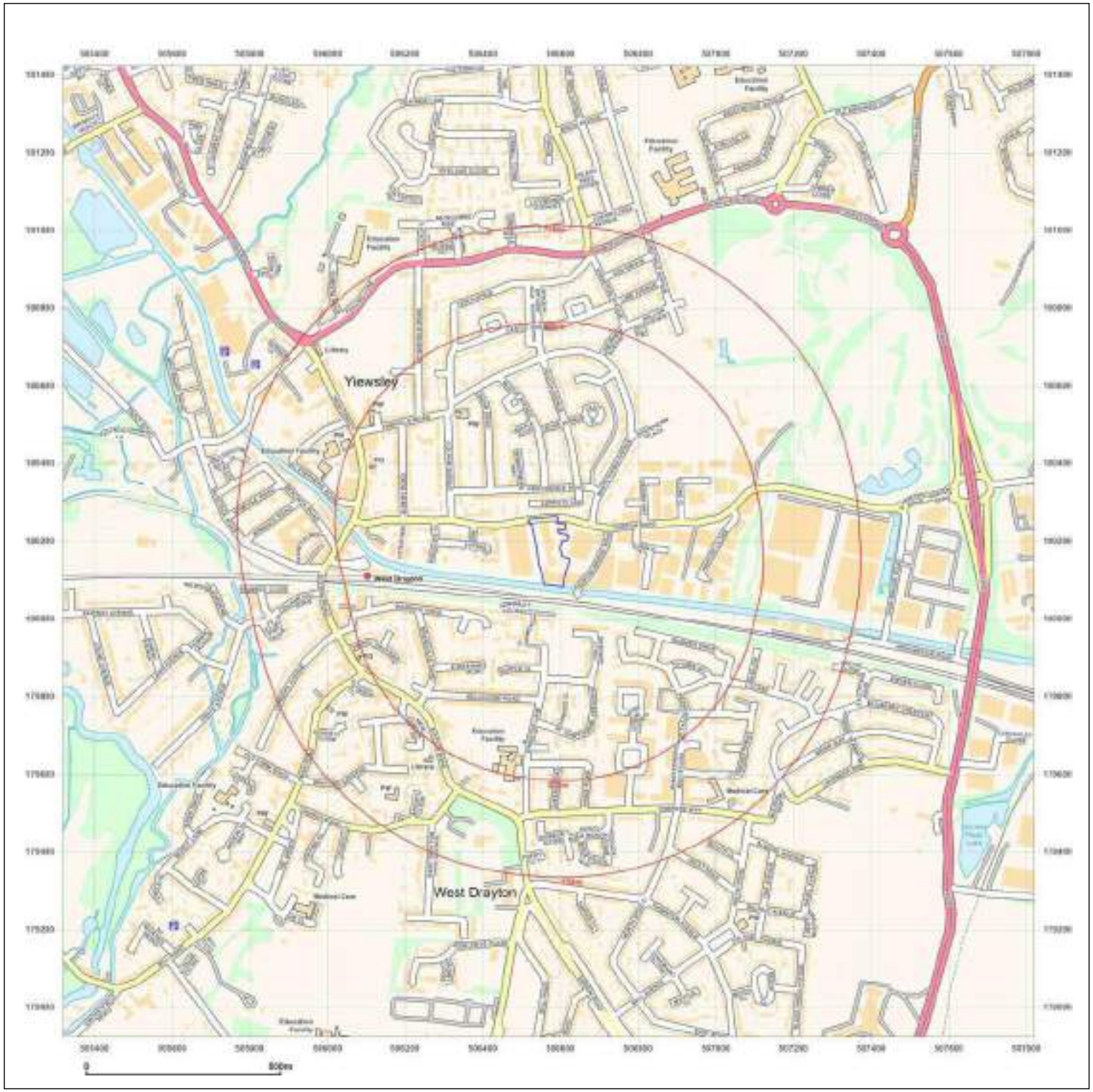

Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: 2025
Scale: 1:10,000
Printed at: 1:10,000

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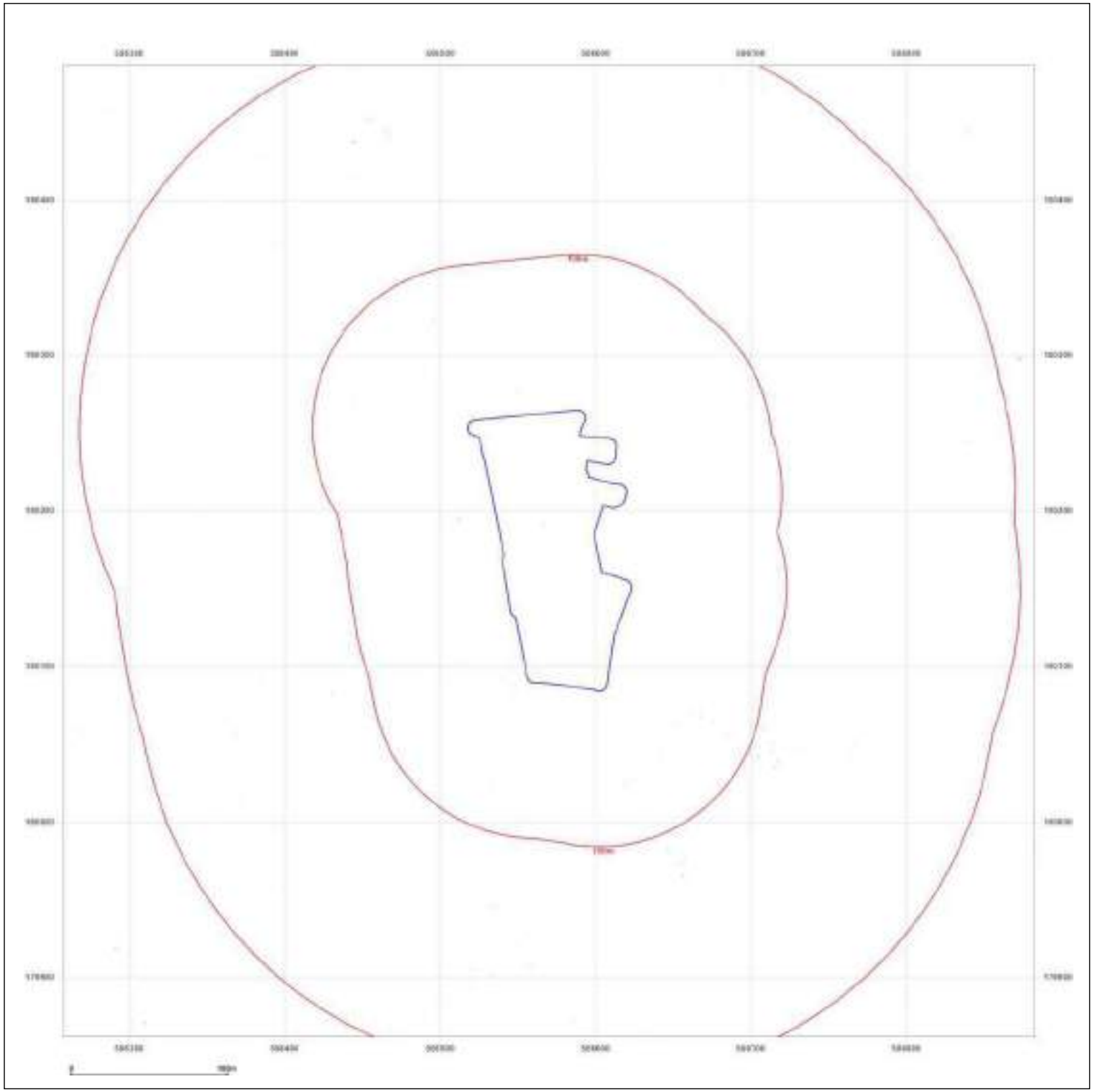
Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: County Series
Map date: **1866**
Scale: 1:2,500
Printed at: 1:2,500

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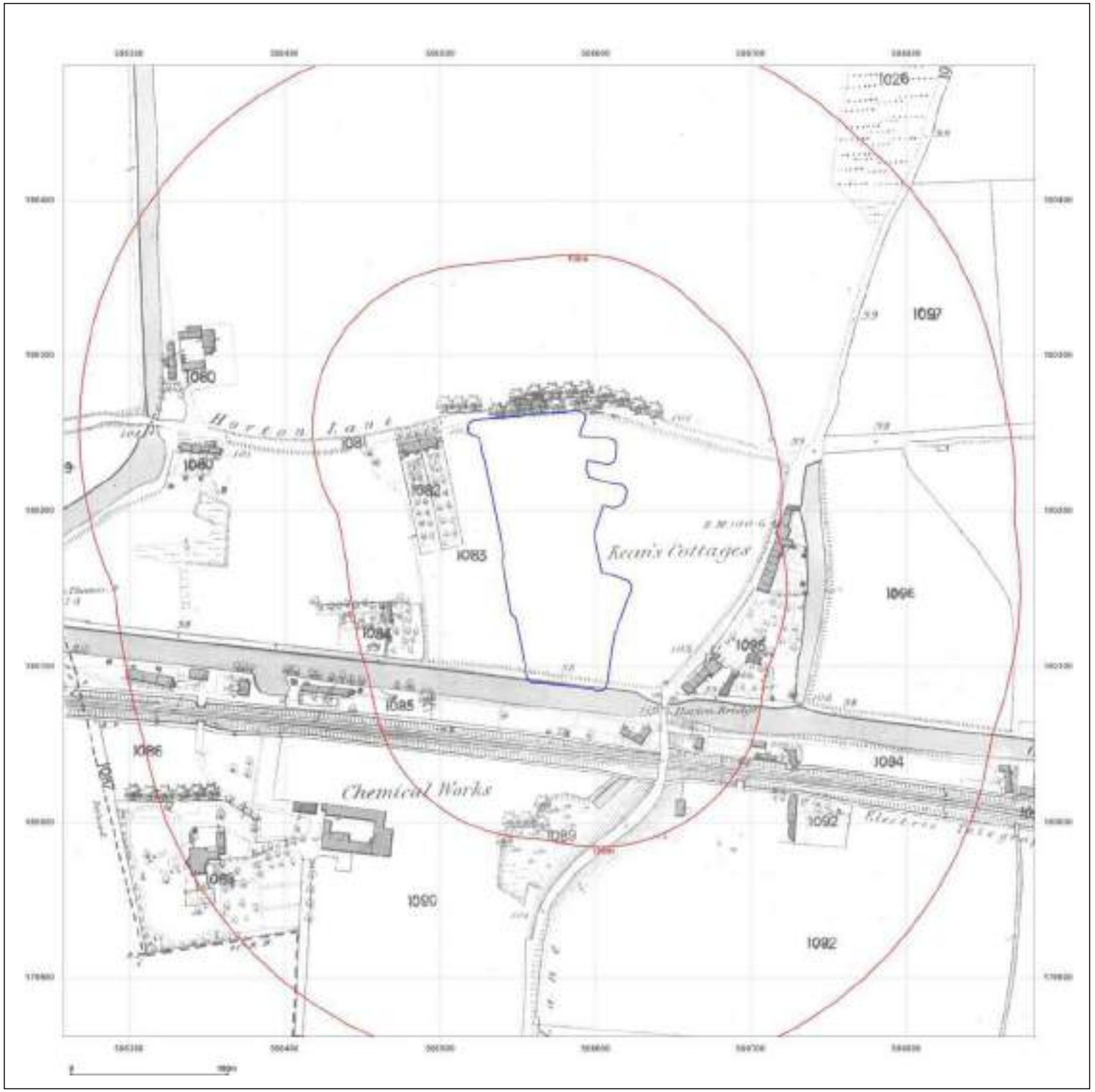
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: County Series
Map date: **1866**
Scale: 1:2,500
Printed at: 1:2,500

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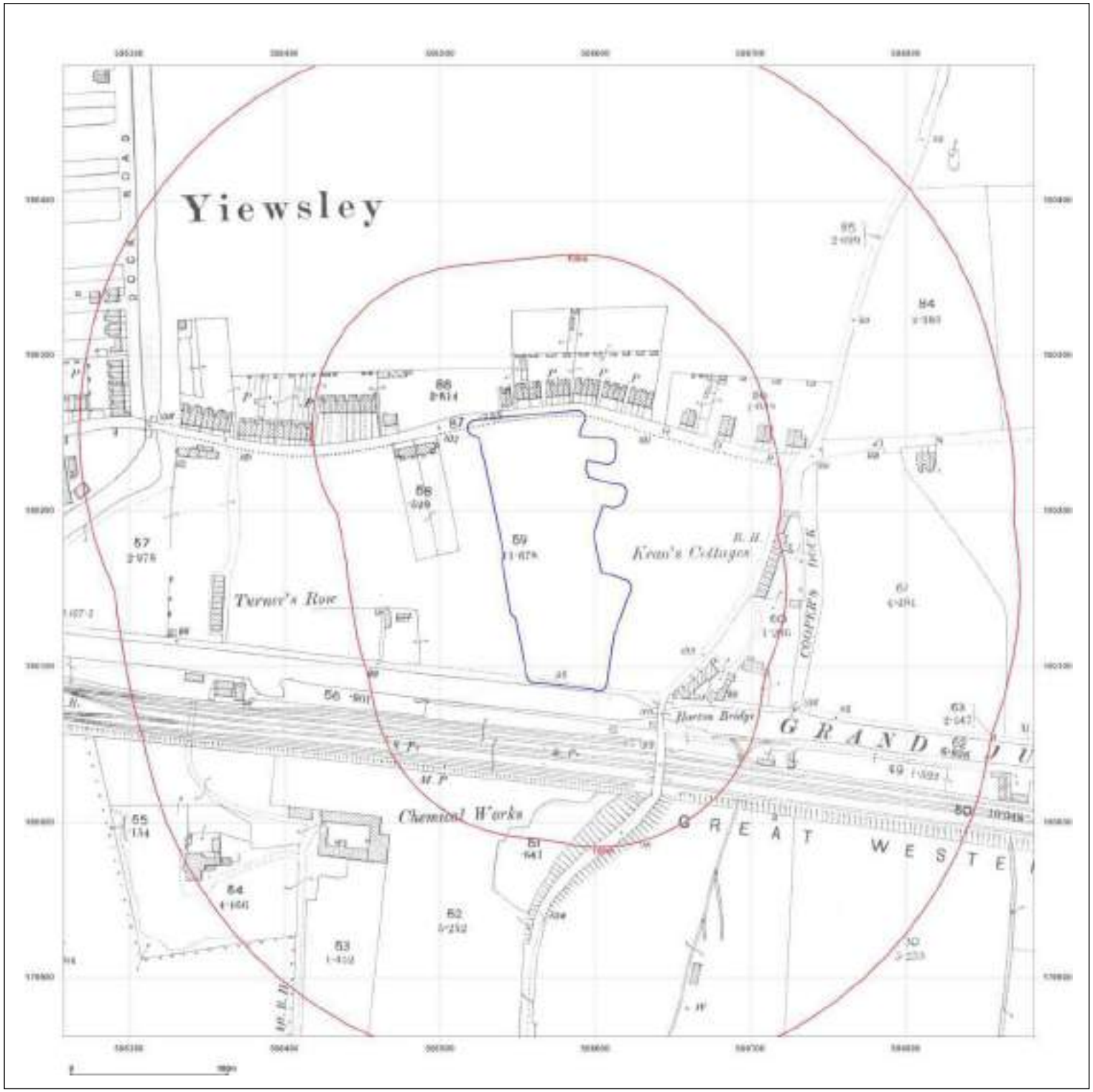
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: County Series
Map date: **1895**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1865
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
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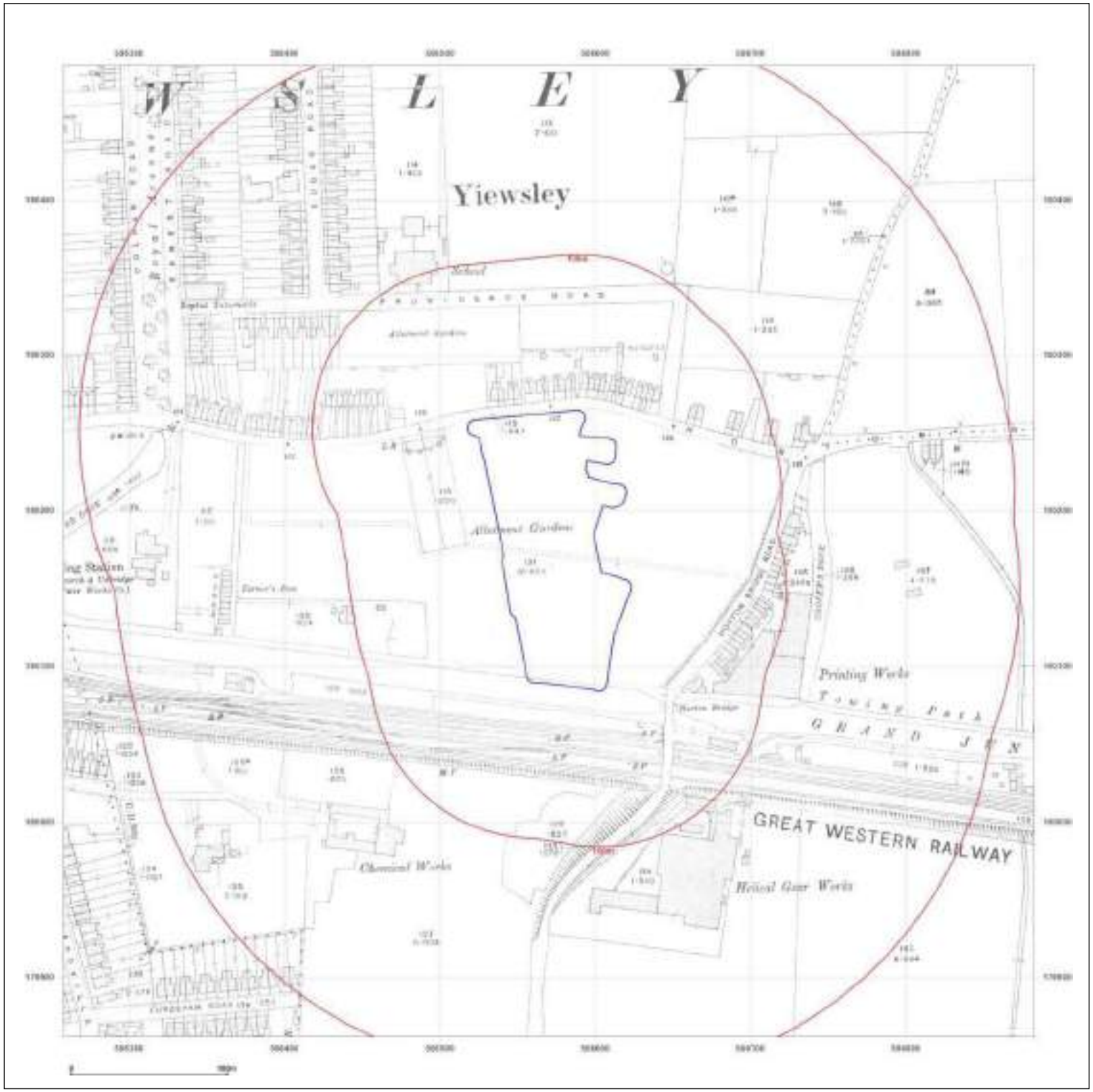
E: info@groundsure.com
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: County Series
Map date: **1914**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1914
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Powered by

Produced by
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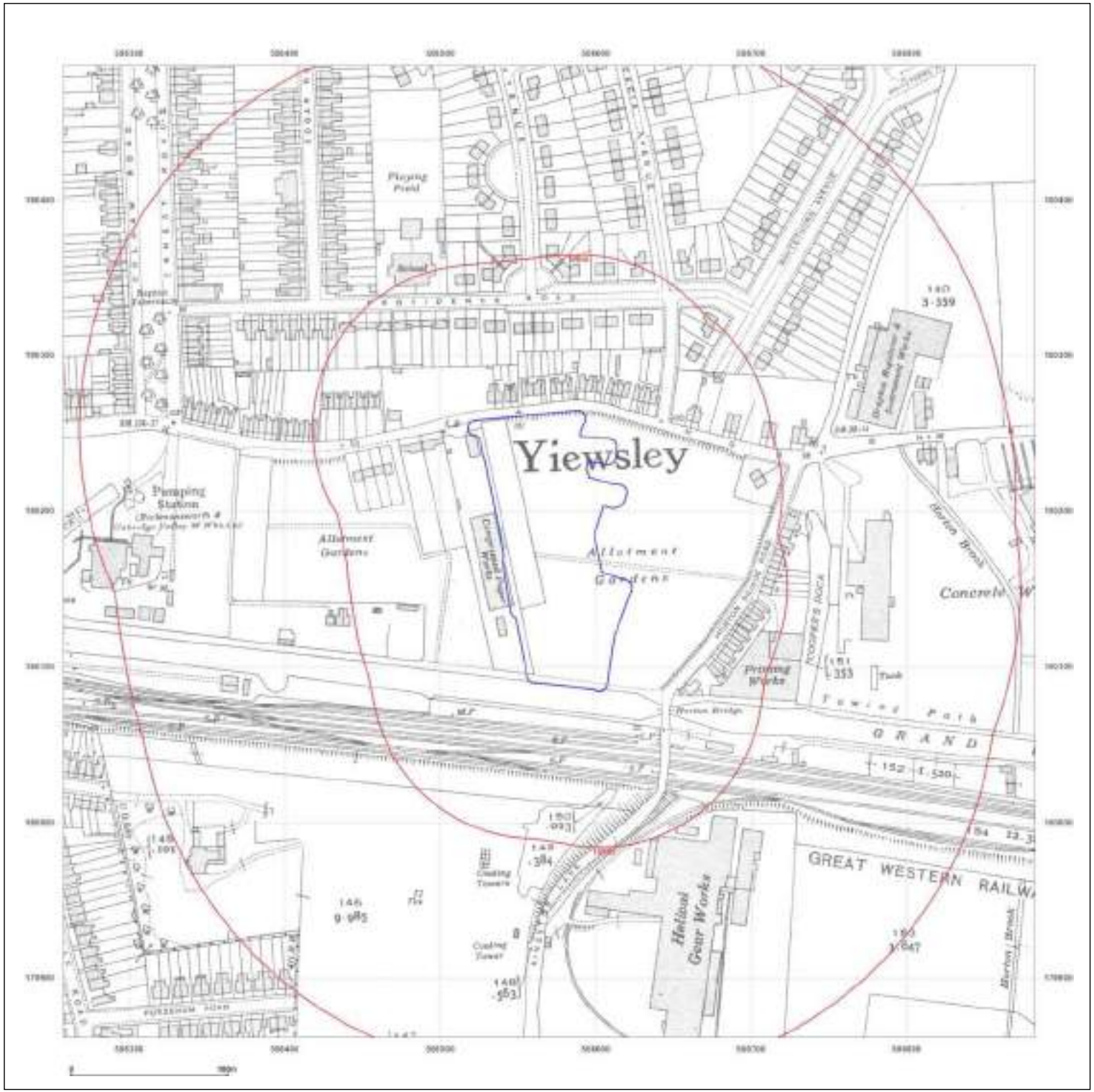
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: County Series
Map date: 1935
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1935
Revised 1935
Edition N/A
Copyright N/A
Levelled N/A

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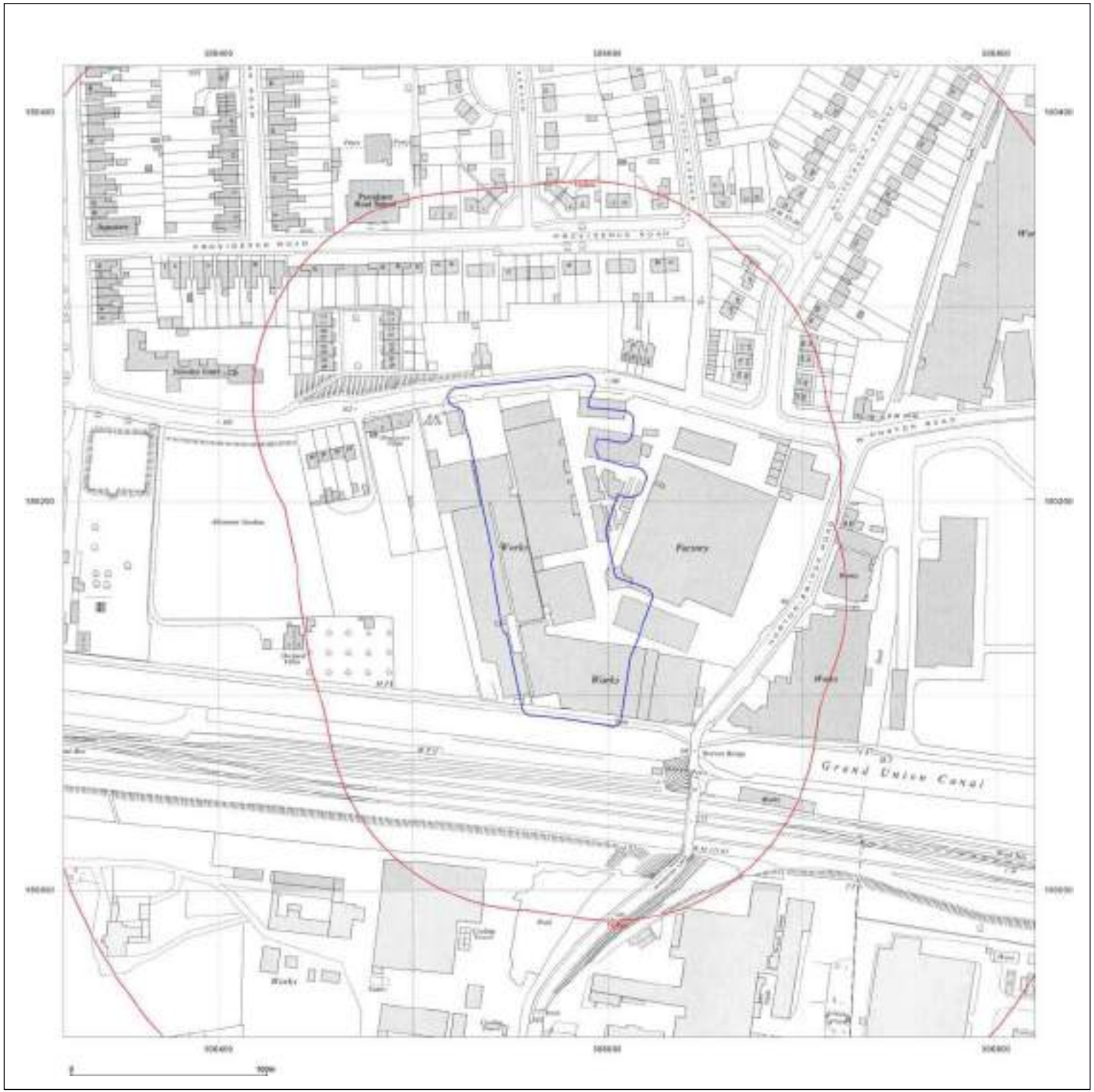
Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1965-1966**

Scale: 1:1,250

Printed at: 1:2,000

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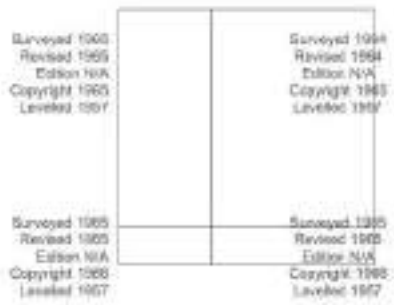

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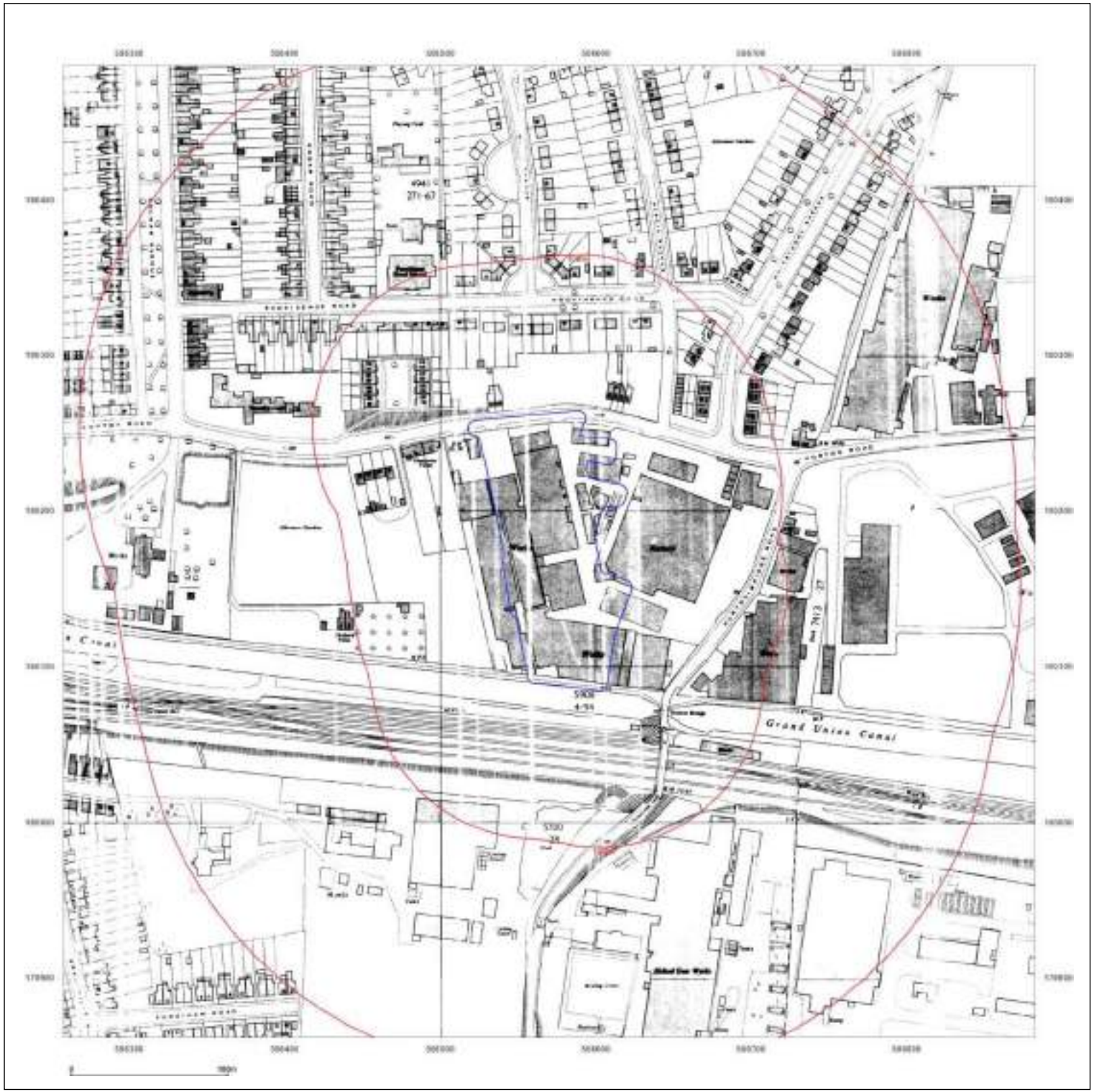
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1966-1967**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1964
Revised N/A
Edition 1966
Copyright N/A
Levelled N/A

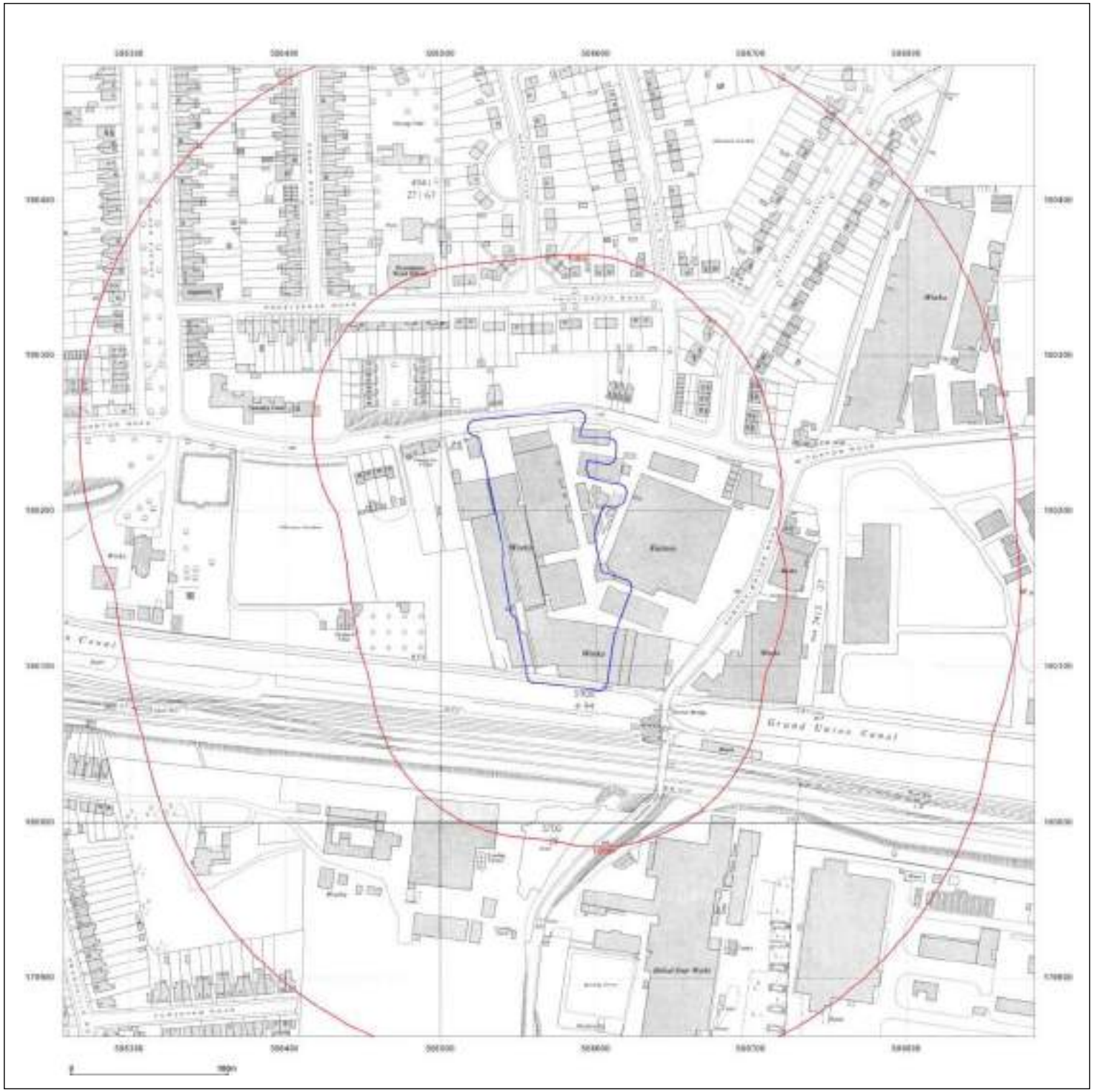
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Powered by OS

Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: 1966-1967
Scale: 1:2,500
Printed at: 1:2,500

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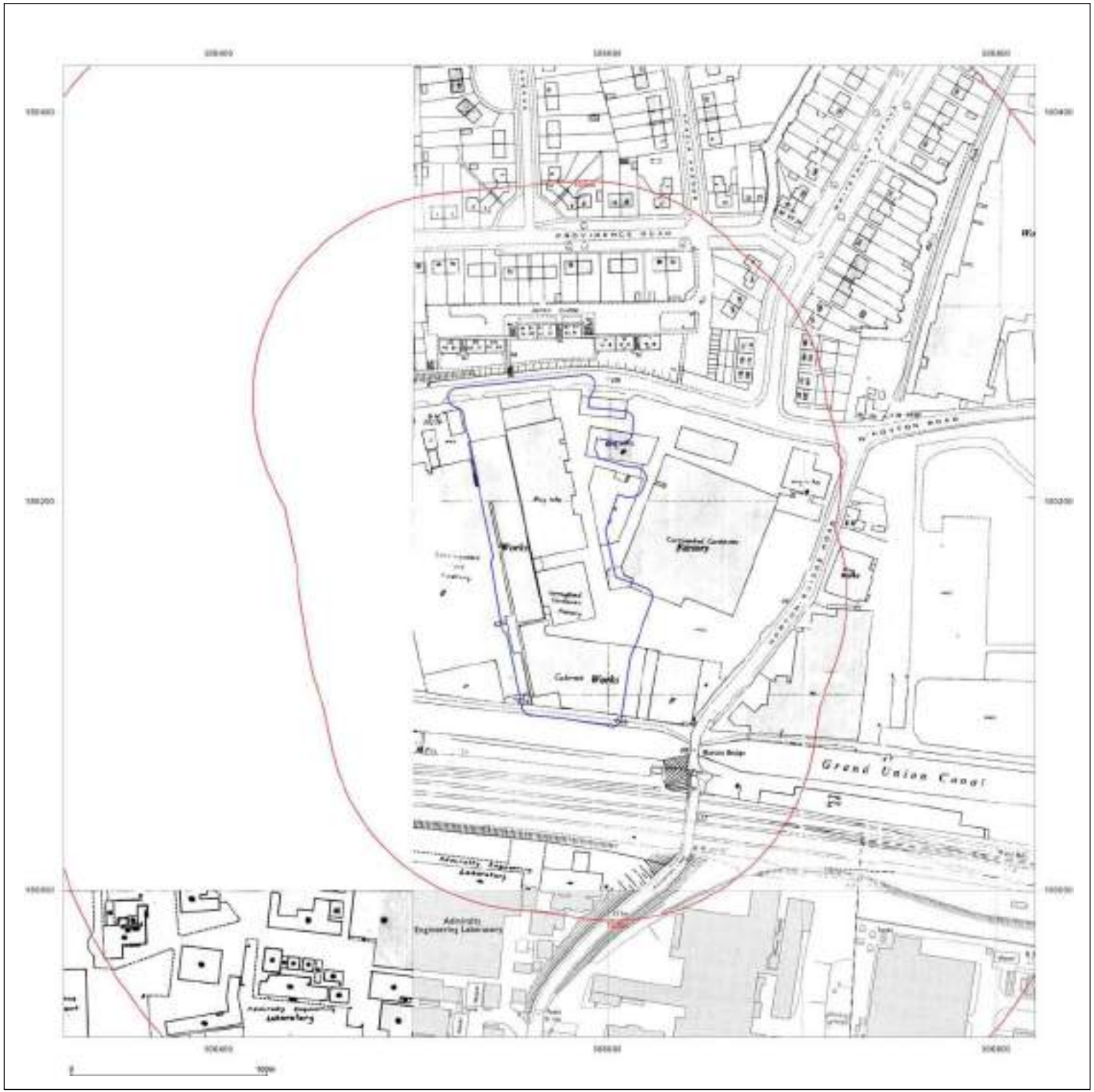
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: **1972-1975**
Scale: 1:1,250
Printed at: 1:2,000

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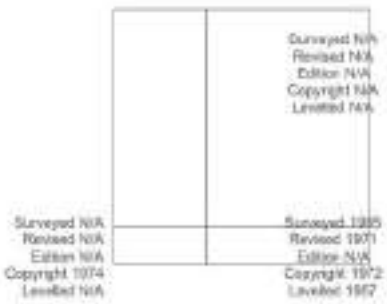

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W: www.groundsure.com

Production date: 06 February 2025

Map legend available at:
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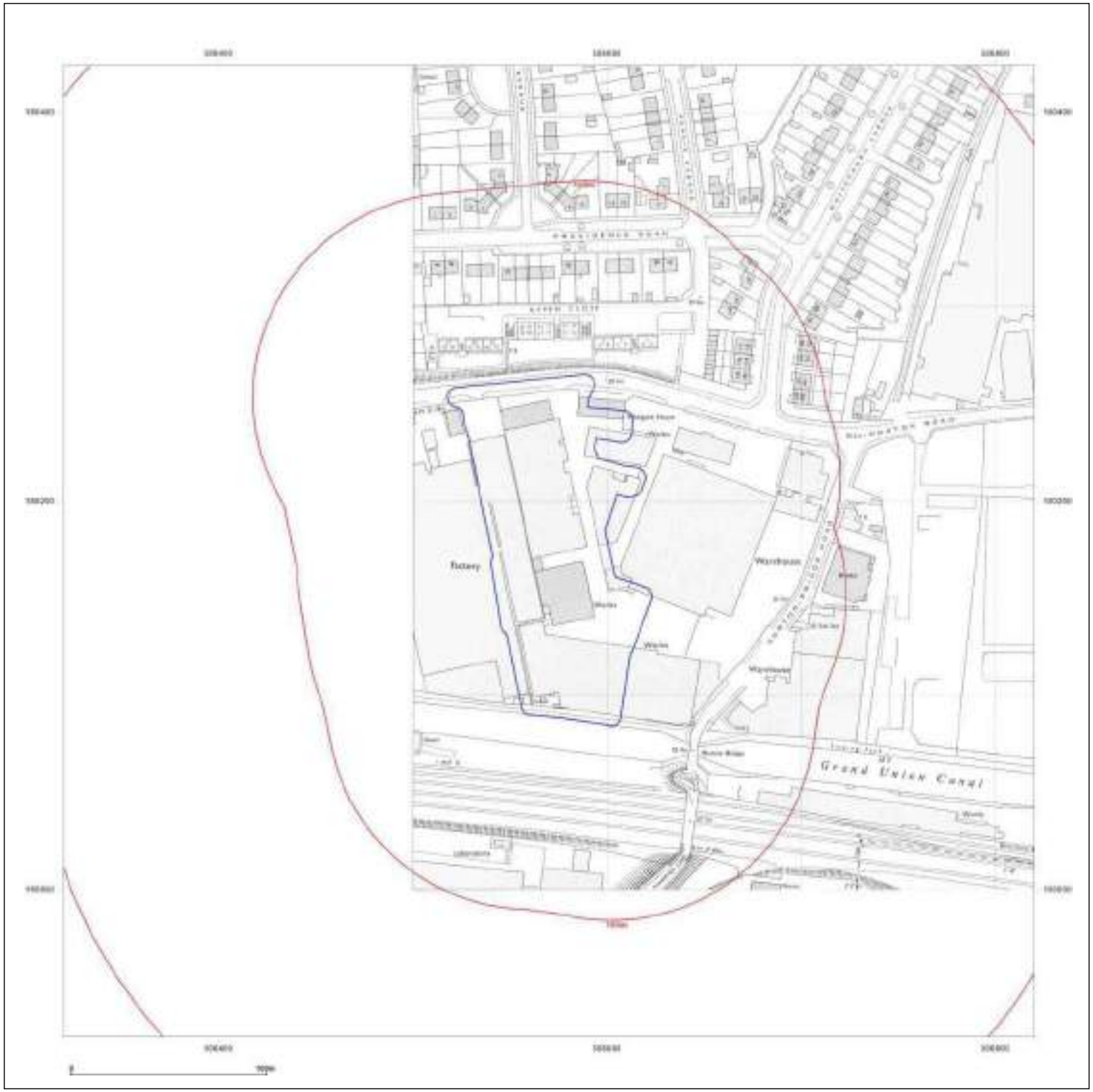

Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: **1978**
Scale: 1:1,250
Printed at: 1:2,000

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W: www.groundsure.com

Production date: 06 February 2025

Map legend available at:
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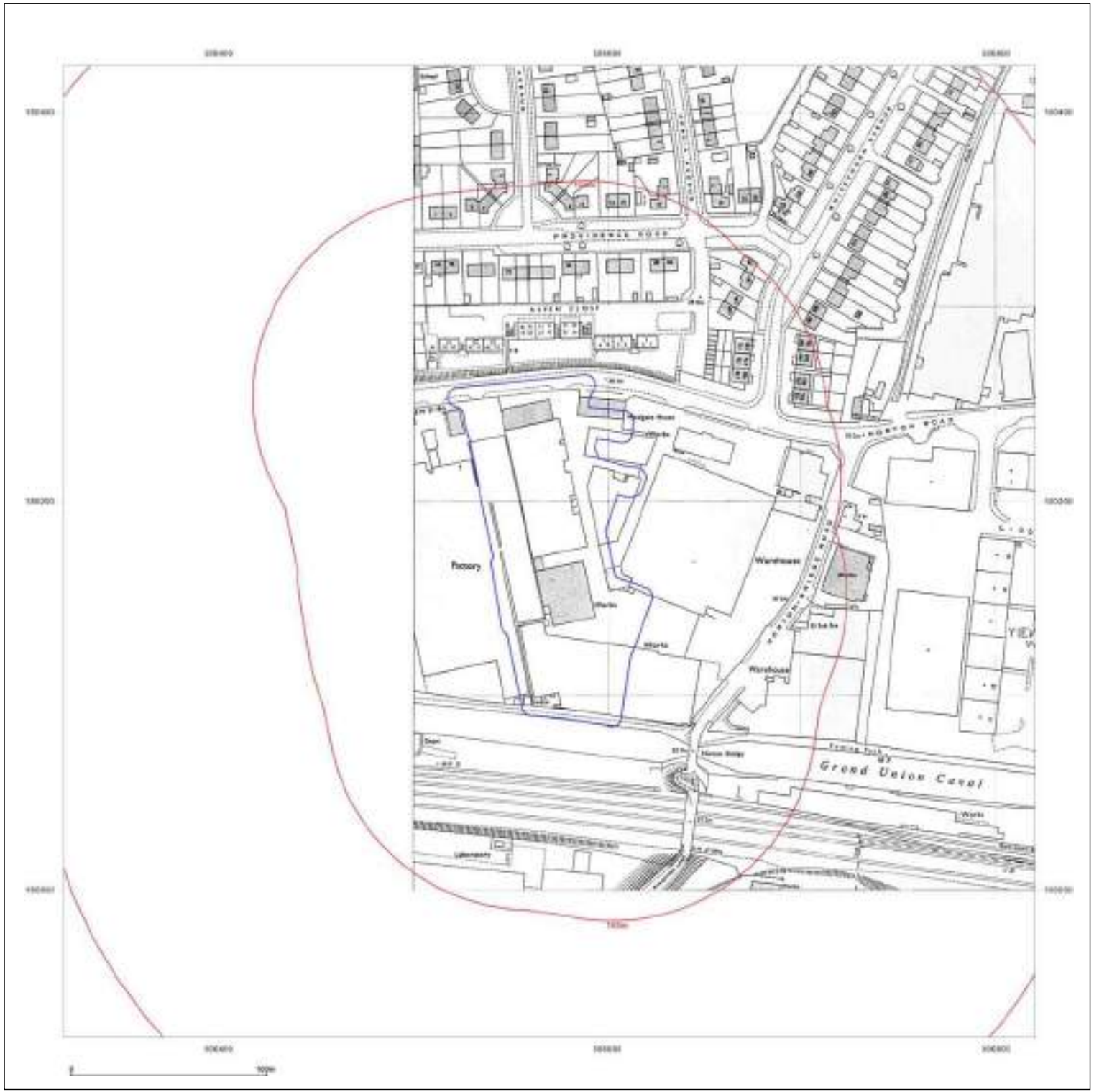

Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: **1979**
Scale: 1:1,250
Printed at: 1:2,000

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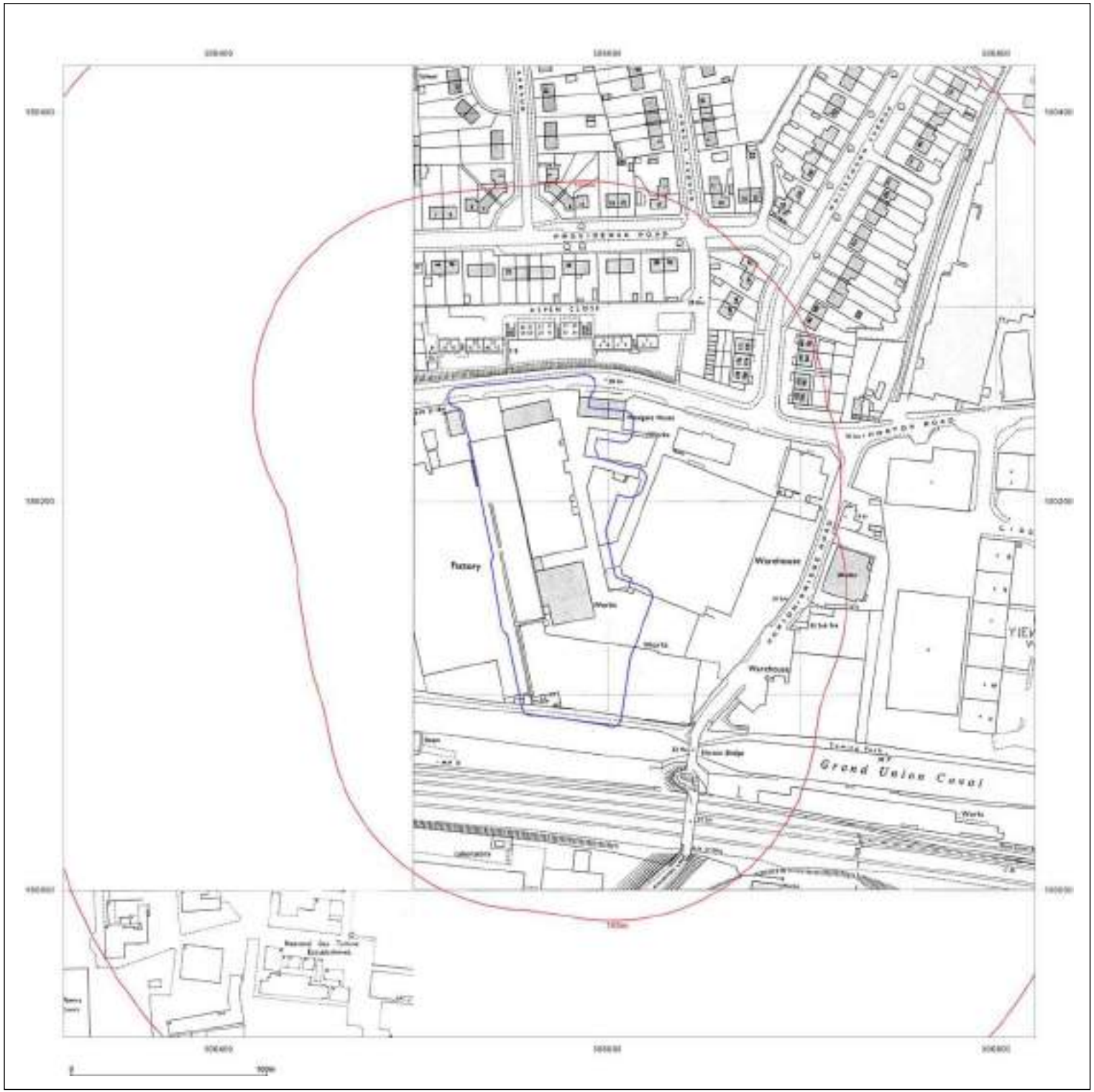
Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1979-1984**

Scale: 1:1,250

Printed at: 1:2,000

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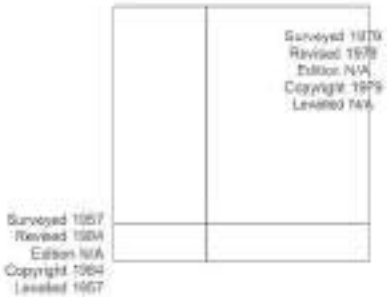

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Production date: 06 February 2025

Map legend available at:
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Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1986-1989**

Scale: 1:1,250

Printed at: 1:2,000

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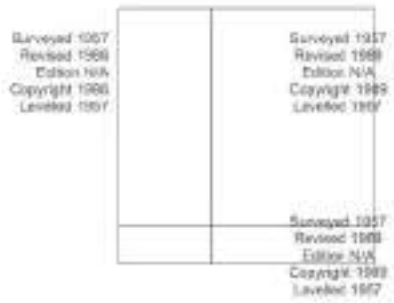

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W: www.groundsure.com

Production date: 06 February 2025

Map legend available at:
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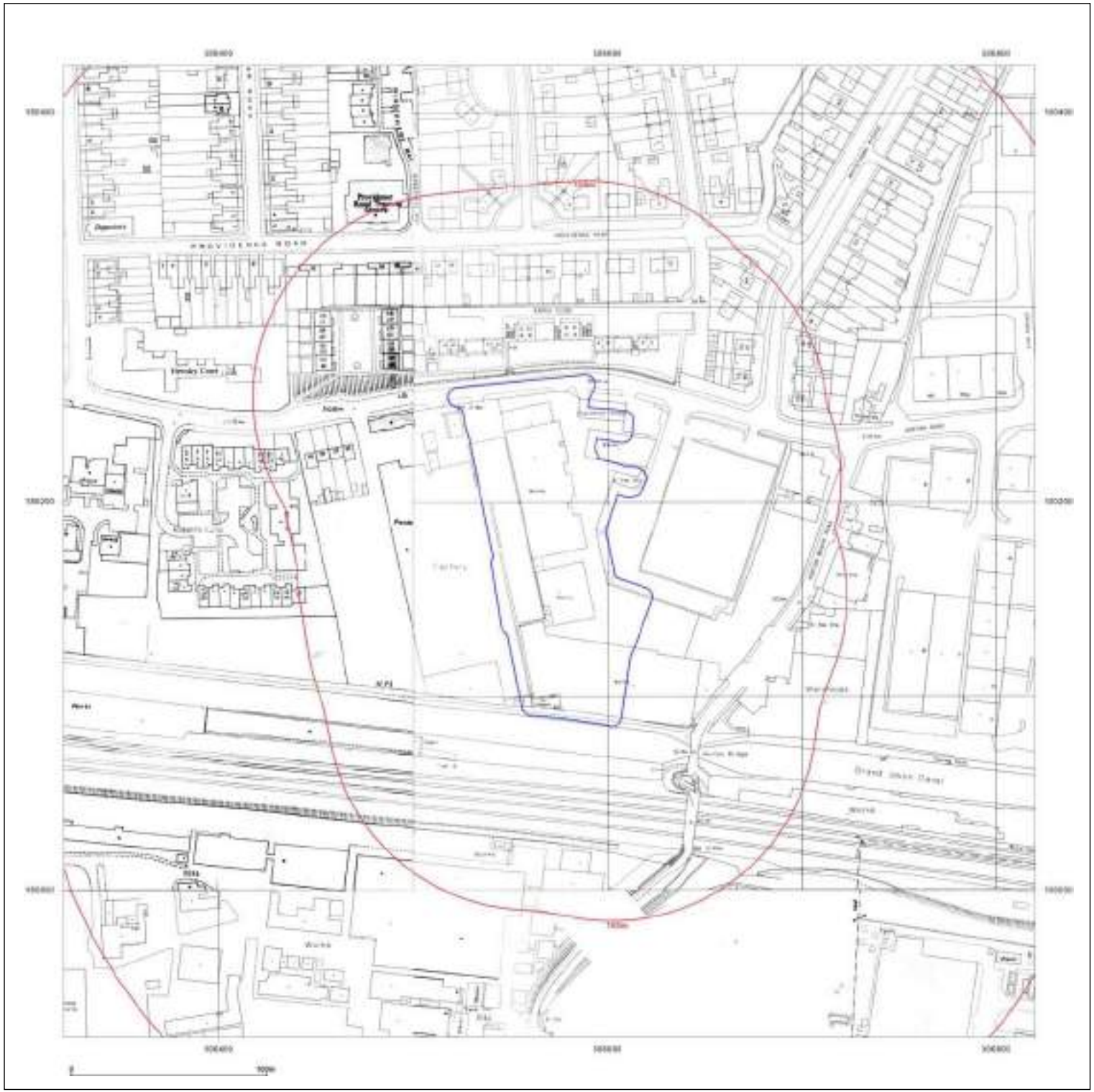

Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Production date: 06 February 2025

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

Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: National Grid
Map date: **1989-1992**
Scale: 1:1,250
Printed at: 1:2,000

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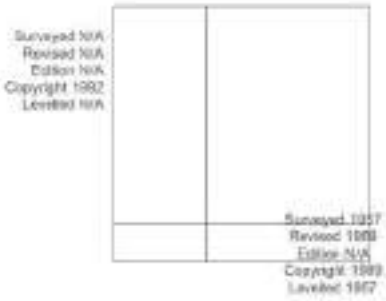

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Produced by
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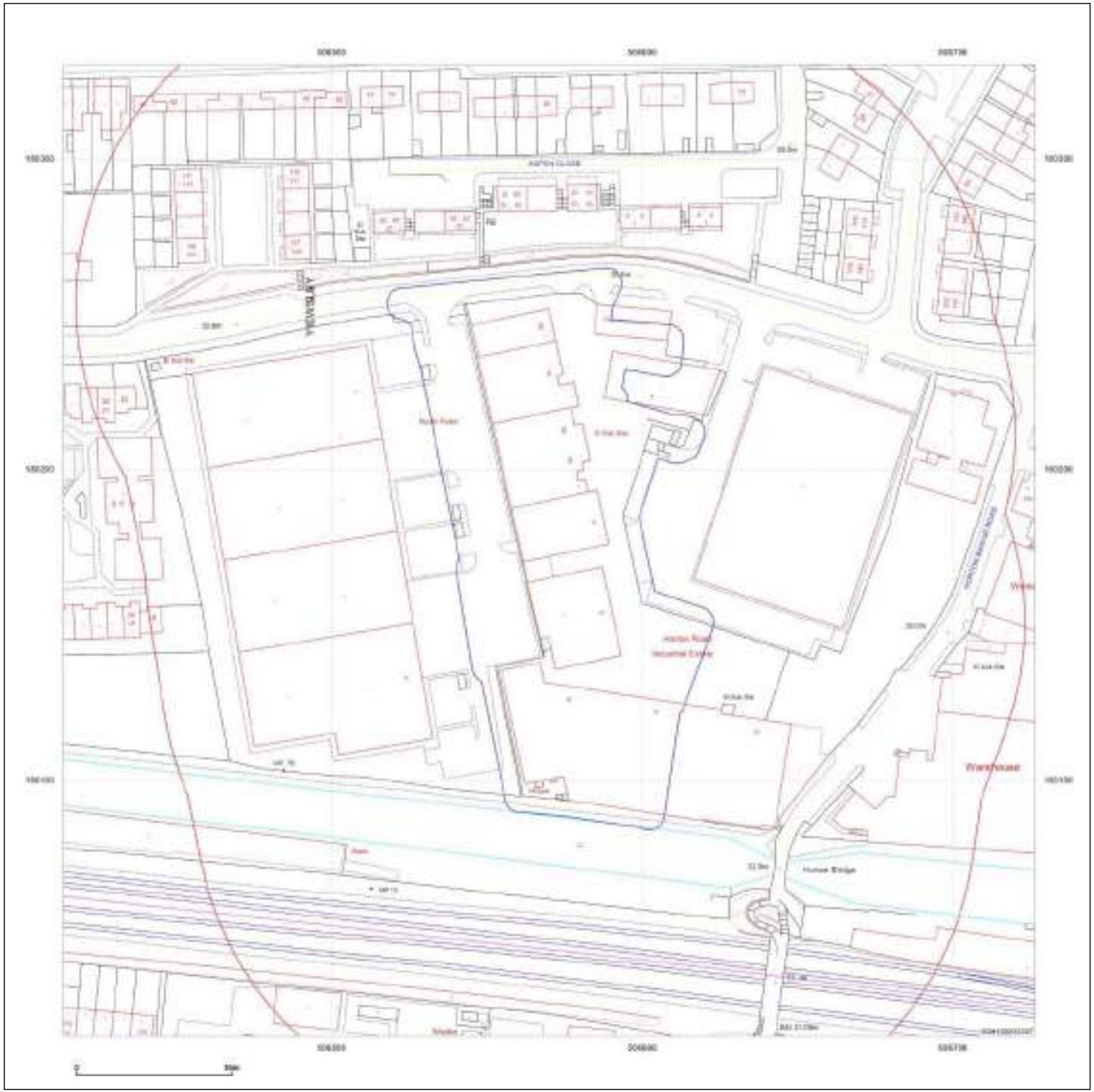
Production date: 06 February 2025

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



Groundsure INSIGHTS

Site Details:

5027861

Client Ref: 5027861 - 632944
Report Ref: GS-845-N5O-TNH-DBQ
Grid Ref: 506570, 180174

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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APPENDIX 5 – GROUNDSURE REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

5027861

Order Details

Date: 06/02/2025

Your ref: 5027861 - 632944

Our Ref: GS-31E-S89-I62-EJL

Site Details

Location: 506573 180179

Area: 1.2 ha

Authority: London Borough of Hillingdon ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	4	17	91	92	-
23 >	1.2 >	Historical tanks >	0	0	32	10	-
25 >	1.3 >	Historical energy features >	1	4	17	22	-
27	1.4	Historical petrol stations	0	0	0	0	-
27 >	1.5 >	Historical garages >	0	0	0	16	-
28	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
29 >	2.1 >	Historical industrial land uses >	4	22	118	112	-
39 >	2.2 >	Historical tanks >	0	0	70	19	-
42 >	2.3 >	Historical energy features >	2	4	41	52	-
46	2.4	Historical petrol stations	0	0	0	0	-
46 >	2.5 >	Historical garages >	0	0	0	21	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
48	3.1	Active or recent landfill	0	0	0	0	-
48	3.2	Historical landfill (BGS records)	0	0	0	0	-
49	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
49 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
49 >	3.5 >	Historical waste sites >	0	0	0	1	-
50	3.6	Licensed waste sites	0	0	0	0	-
50 >	3.7 >	Waste exemptions >	0	8	5	18	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
53 >	4.1 >	Recent industrial land uses >	9	5	18	-	-
56 >	4.2 >	Current or recent petrol stations >	0	0	0	2	-
56	4.3	Electricity cables	0	0	0	0	-
56	4.4	Gas pipelines	0	0	0	0	-
56	4.5	Sites determined as Contaminated Land	0	0	0	0	-

56	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
57	4.7	Regulated explosive sites	0	0	0	0	-
57	4.8	Hazardous substance storage/usage	0	0	0	0	-
57	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
57	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
57 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	7	-
58 >	4.12 >	Radioactive Substance Authorisations >	0	0	1	0	-
59 >	4.13 >	Licensed Discharges to controlled waters >	0	0	4	0	-
60	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
60 >	4.15 >	Pollutant release to public sewer >	0	0	0	1	-
60 >	4.16 >	List 1 Dangerous Substances >	0	0	5	0	-
61	4.17	List 2 Dangerous Substances	0	0	0	0	-
61	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
61	4.19	Pollution inventory substances	0	0	0	0	-
61	4.20	Pollution inventory waste transfers	0	0	0	0	-
61	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
64 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
65 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
66	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
66 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
68 >	5.6 >	Groundwater abstractions >	0	0	0	0	25
74 >	5.7 >	Surface water abstractions >	0	0	0	0	3
75 >	5.8 >	Potable abstractions >	0	0	0	0	5
77	5.9	Source Protection Zones	0	0	0	0	-
77	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	6.1 >	Water Network (OS MasterMap) >	0	1	0	-	-

79 >	6.2 >	Surface water features >	1	1	0	-	-
79 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
79 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
80 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
81	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
81	7.2	Historical Flood Events	0	0	0	-	-
81	7.3	Flood Defences	0	0	0	-	-
82	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
82	7.5	Flood Storage Areas	0	0	0	-	-
83	7.6	Flood Zone 2	None (within 50m)				
83	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
84 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
86 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
87	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
88	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
88	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
88	10.4	Special Protection Areas (SPA)	0	0	0	0	0
88	10.5	National Nature Reserves (NNR)	0	0	0	0	0
89	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
89	10.7	Designated Ancient Woodland	0	0	0	0	0
89	10.8	Biosphere Reserves	0	0	0	0	0
89	10.9	Forest Parks	0	0	0	0	0
90	10.10	Marine Conservation Zones	0	0	0	0	0
90 >	10.11 >	Green Belt >	0	0	1	1	21
91	10.12	Proposed Ramsar sites	0	0	0	0	0

91	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
91	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
92	10.15	Nitrate Sensitive Areas	0	0	0	0	0
92	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
93 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
94	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
95	11.1	World Heritage Sites	0	0	0	-	-
95	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
95	11.3	National Parks	0	0	0	-	-
95	11.4	Listed Buildings	0	0	0	-	-
96	11.5	Conservation Areas	0	0	0	-	-
96	11.6	Scheduled Ancient Monuments	0	0	0	-	-
96	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
98	12.2	Open Access Land	0	0	0	-	-
98	12.3	Tree Felling Licences	0	0	0	-	-
98	12.4	Environmental Stewardship Schemes	0	0	0	-	-
98	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
99	13.1	Priority Habitat Inventory	0	0	0	-	-
99	13.2	Habitat Networks	0	0	0	-	-
99	13.3	Open Mosaic Habitat	0	0	0	-	-
99	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
100 >	14.1 >	10k Availability >	Identified (within 500m)				
101 >	14.2 >	Artificial and made ground (10k) >	1	2	7	5	-
103 >	14.3 >	Superficial geology (10k) >	1	2	6	1	-

104	14.4	Landslip (10k)	0	0	0	0	-
105 >	14.5 >	Bedrock geology (10k) >	1	0	1	0	-
106	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	15.1 >	50k Availability >	Identified (within 500m)				
108 >	15.2 >	Artificial and made ground (50k) >	1	1	5	1	-
109 >	15.3 >	Artificial ground permeability (50k) >	0	1	-	-	-
110 >	15.4 >	Superficial geology (50k) >	1	2	4	1	-
111 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
111	15.6	Landslip (50k)	0	0	0	0	-
111	15.7	Landslip permeability (50k)	None (within 50m)				
112 >	15.8 >	Bedrock geology (50k) >	1	0	1	0	-
113 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
113	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	16.1 >	BGS Boreholes >	0	0	11	-	-
Page	Section	**Natural ground subsidence** >					
116 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
118 >	17.2 >	Running sands >	Very low (within 50m)				
120 >	17.3 >	Compressible deposits >	Very low (within 50m)				
122 >	17.4 >	Collapsible deposits >	Low (within 50m)				
123 >	17.5 >	Landslides >	Very low (within 50m)				
124 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	18.1 >	BritPits >	0	0	1	6	-
128 >	18.2 >	Surface ground workings >	13	2	43	-	-
130	18.3	Underground workings	0	0	0	0	0
130	18.4	Underground mining extents	0	0	0	0	-
131 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-

131	18.6	Non-coal mining	0	0	0	0	0
131	18.7	JPB mining areas	None (within 0m)				
131	18.8	The Coal Authority non-coal mining	0	0	0	0	-
132 >	**18.9 >**	**Researched mining >**	1	0	2	0	-
132	18.10	Mining record office plans	0	0	0	0	-
132	18.11	BGS mine plans	0	0	0	0	-
133	18.12	Coal mining	None (within 0m)				
133	18.13	Brine areas	None (within 0m)				
133	18.14	Gypsum areas	None (within 0m)				
133	18.15	Tin mining	None (within 0m)				
133	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
134	19.1	Natural cavities	0	0	0	0	-
134	19.2	Mining cavities	0	0	0	0	0
134	19.3	Reported recent incidents	0	0	0	0	-
134	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
136 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
138 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	1	3	-	-	-
138 >	**21.2 >**	**BGS Estimated Urban Soil Chemistry >**	6	5	-	-	-
139	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	**Railway infrastructure and projects >**	On site	0-50m	50-250m	250-500m	500-2000m
140 >	**22.1 >**	**Underground railways (London) >**	0	1	0	-	-
141	22.2	Underground railways (Non-London)	0	0	0	-	-
141	22.3	Railway tunnels	0	0	0	-	-
141 >	**22.4 >**	**Historical railway and tunnel features >**	0	24	35	-	-
143	22.5	Royal Mail tunnels	0	0	0	-	-
144	22.6	Historical railways	0	0	0	-	-

144 >	22.7 >	Railways >	0	11	8	-	-
145	22.8	Crossrail 2	0	0	0	0	-
145	22.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 30/04/2022

Site Area: 1.2ha

Recent site history - 2021 aerial photograph

Capture Date: 13/06/2021

Site Area: 1.2ha

Recent site history - 2017 aerial photograph

Capture Date: 21/06/2017

Site Area: 1.2ha

Recent site history - 2013 aerial photograph

Capture Date: 20/04/2013

Site Area: 1.2ha

Recent site history - 1999 aerial photograph

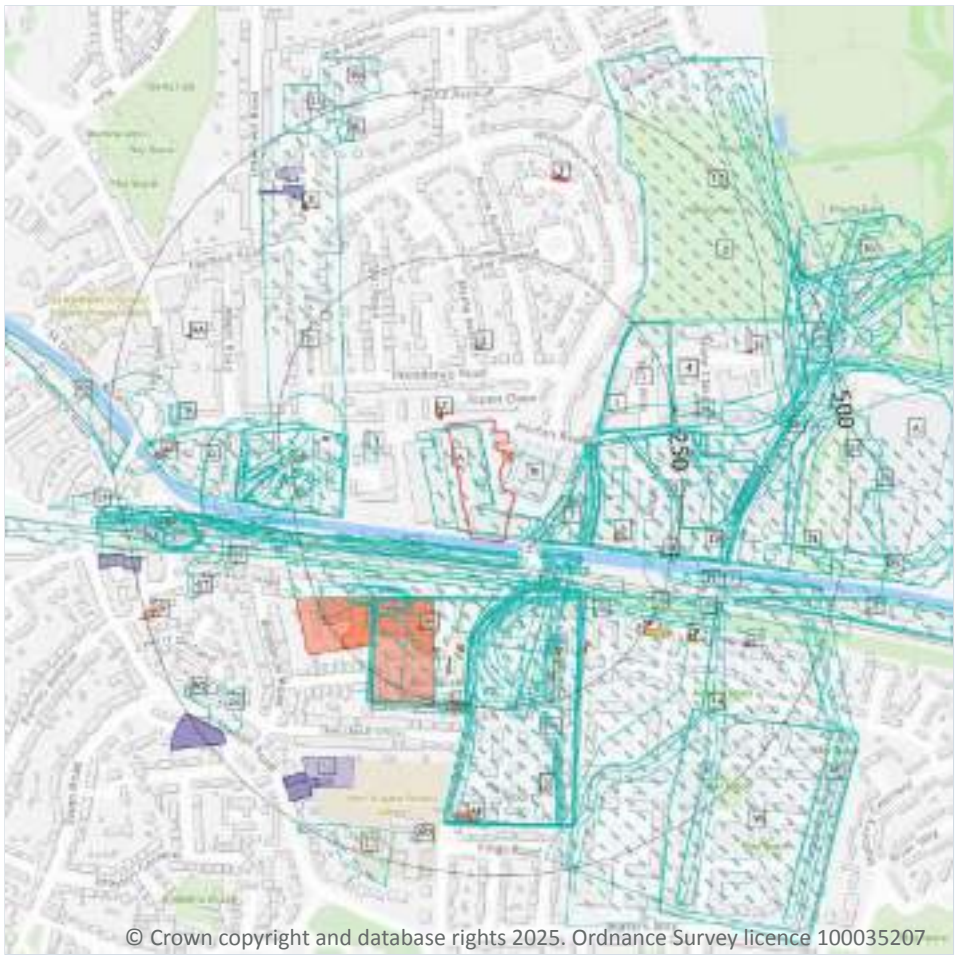
Capture Date: 13/10/1999

Site Area: 1.2ha

OS MasterMap site plan

Site Area: 1.2ha

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	204

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 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1990**	**2171351**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Works**	**1970**	**2182804**
A	**On site**	**Unspecified Factory**	**1975**	**2200137**
B	**On site**	**Unspecified Factory**	**1970**	**2200138**
D	16m S	Railway Sidings	1913	2241305
D	16m S	Railway Sidings	1894	2301254
D	17m S	Railway Sidings	1932 - 1935	2234460
D	19m S	Railway Sidings	1938	2331322
D	20m S	Railway Sidings	1960	2303211
D	21m S	Railway Sidings	1913	2330003
D	23m S	Railway Sidings	1898	2240040
E	34m SE	Printing Works	1913 - 1932	2225849
E	37m SE	Printing Works	1913	2300619
E	43m SE	Printing Works	1935 - 1938	2205929
F	44m S	Railway Sidings	1938	2303912
E	45m SE	Unspecified Works	1960	2273977
D	47m SW	Railway Building	1975 - 1990	2234488
F	48m S	Railway Sidings	1935	2324660
E	49m SE	Unspecified Works	1970	2280639
G	49m SE	Industrial Park	1990	2166868
G	49m SE	Unspecified Works	1975	2230024
E	53m SE	Dock	1894	2168116
F	56m SE	Railway Sidings	1898 - 1913	2317204
H	57m S	Chemical Works	1932	2272617
F	57m SE	Railway Sidings	1960	2305481
F	58m S	Unspecified Pit	1868	2176609
F	60m SE	Railway Sidings	1913	2296904
F	60m SE	Railway Sidings	1894	2306307
F	62m SE	Railway Sidings	1894	2278601

ID	Location	Land use	Dates present	Group ID
F	62m SE	Railway Sidings	1932	2251675
H	62m S	Unspecified Works	1975	2260034
H	62m S	Unspecified Works	1990	2295947
F	63m S	Helical Gear Works	1938	2325754
F	65m SE	Unspecified Works	1970	2182805
F	65m S	Brick Field	1894	2227603
E	66m SE	Pumping Works	1938	2166451
F	68m S	Brick Field	1894	2315364
F	70m SE	Railway Building	1938	2196076
F	71m SE	Helical Gear Works	1932	2300037
F	71m S	Brick Field	1898	2283483
H	72m S	Unspecified Commercial/Industrial	1935	2171290
F	74m SE	Helical Gear Works	1913	2231518
F	74m SE	Railway Buildings	1938	2288137
F	78m SE	Helical Gear Works	1935 - 1938	2263776
F	84m SE	Railway Sidings	1938	2217685
F	84m S	Railway Sidings	1960 - 1964	2301626
F	84m S	Unspecified Works	1960	2282228
H	84m S	Unspecified Works	1987	2285901
H	86m S	Unspecified Works	1970	2272690
F	87m S	Works	1964	2167159
F	92m S	Unspecified Works	1970 - 1987	2290363
F	97m SE	Railway Buildings	1913	2237894
F	98m SE	Railway Buildings	1894	2315636
1	101m W	Unspecified Pit	1881	2176606
E	105m E	Dock	1898	2230286
E	105m E	Dock	1932	2253299
F	106m SE	Railway Sidings	1938	2232907

ID	Location	Land use	Dates present	Group ID
E	114m E	Unspecified Dock	1894	2270637
E	114m E	Unspecified Dock	1913	2285030
G	120m E	Unspecified Works	1960	2203260
E	123m E	Concrete Works	1938	2322108
H	125m SW	Chemical Works	1868	2226077
G	125m E	Concrete Works	1938	2317143
3	126m E	Brick Field	1898	2276093
G	126m E	Brick Field	1868	2229469
H	127m SW	Chemical Works	1898	2219025
H	128m SW	Chemical Works	1894	2249246
H	128m SW	Chemical Works	1913	2295576
H	131m SW	Chemicals Works	1894	2256824
H	131m SW	Chemicals Works	1913	2297215
I	132m NE	Unspecified Works	1970	2276577
I	132m NE	Unspecified Works	1960	2327921
E	132m E	Unspecified Works	1970	2257604
I	133m NE	Regulator and Instrument Works	1935 - 1938	2265345
I	134m NE	Instrument Works	1938	2182291
4	136m E	Unspecified Works	1970 - 1975	2283572
5	143m SE	Railway Sidings	1960 - 1964	2230715
D	145m W	Dock	1938	2302598
D	147m W	Dock	1913 - 1932	2280964
D	150m W	Pumping Station	1975	2202693
D	150m W	Unspecified Dock	1935	2317772
6	151m NW	Dock	1898	2325872
J	152m SE	Railway Sidings	1938	2214498
D	155m W	Unspecified Heap	1970 - 1990	2282858
K	157m SE	Unspecified Station	1970 - 1987	2264186

ID	Location	Land use	Dates present	Group ID
D	160m W	Unspecified Pit	1868	2176605
F	166m SE	Railway Sidings	1964	2304733
G	171m E	Unspecified Dock	1894	2327551
D	172m SW	Railway Buildings	1938	2245622
D	174m SW	Railway Buildings	1935 - 1938	2251024
G	179m E	White Lead Works	1938	2173843
D	195m W	Unspecified Dock	1913	2267980
D	202m W	Pumping Station	1938	2295607
G	202m E	Concrete Works	1935	2243167
D	209m W	Pumping Station	1913 - 1932	2252046
D	210m W	Unspecified Tanks	1938	2303862
D	211m W	Pumping Station	1935	2216416
D	213m W	Cement Works	1894	2240670
D	213m W	Railway Sidings	1938	2211084
D	216m W	Pumping Station	1913	2263159
D	219m W	Railway Sidings	1881	2280476
D	223m W	Railway Sidings	1935	2293429
D	224m W	Unspecified Works	1970	2182803
D	226m SW	Railway Sidings	1898	2286283
D	227m W	Unspecified Heap	1970 - 1990	2331647
G	233m E	Railway Sidings	1938	2237226
G	233m E	Brick Field	1881	2265403
G	236m E	Railway Sidings	1935 - 1938	2264956
11	245m SE	Railway Buildings	1894	2160498
12	247m NE	Brick Field	1894	2298935
G	247m E	Unspecified Works	1970	2299300
M	248m E	Refuse Heap	1935	2159637
13	258m E	Dock	1913	2168111

ID	Location	Land use	Dates present	Group ID
D	258m W	Dock	1938	2294183
D	260m W	Dock	1960	2291042
N	263m S	Unspecified Ground Workings	1935	2291503
N	264m S	Unspecified Ground Workings	1938	2230587
N	266m S	Unspecified Ground Workings	1938	2271348
O	269m W	Railway Sidings	1868	2269828
O	271m W	Railway Land	1935	2201085
D	272m W	Railway Building	1935 - 1938	2261564
D	275m W	Dock	1970	2290808
K	275m SE	Railway Sidings	1894	2229142
O	280m W	Railway Sidings	1913	2224233
O	280m W	Railway Sidings	1894	2266296
O	281m W	Railway Station	1913	2231507
P	290m SE	Railway Sidings	1898	2272688
14	291m SE	Railway Sidings	1894	2301111
O	297m W	Railway Station	1894	2328486
Q	297m W	Cement Works	1898	2205992
D	312m W	Unspecified Tank	1938	2191428
15	314m W	Gravel Pit	1881	2194176
G	314m E	Unspecified Dock	1913	2239362
G	321m E	Dock	1898	2230820
G	321m E	Dock	1932	2266000
Q	325m W	Unspecified Works	1970 - 1990	2318894
G	328m E	Dock	1894	2285729
K	333m SE	Railway Sidings	1898	2262964
G	344m E	Unspecified Warehouses	1975	2199168
S	347m SE	Unspecified Works	1987	2245906
S	347m SE	Unspecified Works	1974	2311910

ID	Location	Land use	Dates present	Group ID
S	356m SE	Unspecified Works	1970	2323000
G	370m E	Unspecified Works	1960	2182726
17	372m W	Gravel Pit	1868	2194093
G	375m E	White Lead Works	1935	2173844
V	378m W	Smithy	1898	2325574
W	378m SE	Brick Field	1894	2307785
W	379m SE	Brick Field	1894 - 1898	2226329
G	383m E	Unspecified Works	1970	2182727
V	384m W	Smithy	1894	2232553
O	389m W	Railway Buildings	1938	2226286
Y	391m E	Railway Sidings	1913	2315982
Z	391m E	Dock	1913	2281801
O	391m W	Railway Buildings	1935 - 1938	2243421
O	394m W	Railway Station	1960 - 1990	2260444
P	395m E	Railway Building	1894	2196216
O	396m W	Railway Station	1932	2273104
O	396m W	Railway Station	1898	2286475
V	397m W	Smithy	1894	2212306
O	400m W	Railway Station	1913	2238329
O	400m W	Railway Station	1894	2319451
V	400m W	Oil Works	1868	2328106
Y	401m E	Railway Sidings	1932	2302730
Y	401m E	Railway Sidings	1913	2247637
G	402m E	Unspecified Depot	1970	2170093
S	402m SE	Unspecified Commercial/Industrial	1960	2213119
20	406m SW	Unspecified Works	1970 - 1987	2205147
Y	406m E	Railway Sidings	1894	2311322
21	418m E	Unspecified Ground Workings	1970	2257162

ID	Location	Land use	Dates present	Group ID
V	419m W	Oil Works	1881	2274584
22	420m E	Unspecified Ground Workings	1960	2231494
Y	422m E	Railway Sidings	1894	2233707
O	422m W	Railway Buildings	1938	2262790
Y	423m E	Unspecified Commercial/Industrial	1935	2171320
Y	425m E	Unspecified Depot	1970 - 1975	2307610
Y	426m E	Railway Sidings	1935	2243458
Y	426m E	White Lead Works	1938	2173845
Y	430m E	Unspecified Works	1990	2266138
Y	434m E	Railway Sidings	1938	2308148
Y	438m E	Railway Sidings	1898	2289150
Y	441m E	Unspecified Works	1970 - 1975	2236739
Y	446m NE	Unspecified Works	1970 - 1975	2260703
AE	448m N	Unspecified Dock	1894	2188666
AE	449m N	Dock	1894	2168115
Y	453m E	Brick Field	1894	2299085
AD	453m S	Chimney	1970 - 1987	2292684
23	455m S	Nursery	1970	2179714
24	460m E	Unspecified Ground Workings	1975 - 1990	2241067
Y	461m E	Unspecified Pit	1898	2276268
AF	463m SE	Railway Sidings	1898	2297822
AF	468m SE	Railway Sidings	1894	2225472
AG	470m SW	Smithy	1898	2181150
AH	473m W	Unspecified Works	1970	2257521
25	477m NW	Gravel Pit	1868	2274525
AH	478m W	Unspecified Works	1975 - 1990	2276405
AJ	480m E	Gravel Pit	1913 - 1932	2210369
AJ	481m E	Gravel Pit	1913	2254820

ID	Location	Land use	Dates present	Group ID
O	483m W	Railway Building	1938	2196362
27	486m W	Railway Station	1881	2167944
Y	488m E	Ballast Pit	1938	2268009
28	488m E	Unspecified Pit	1938	2176442
29	496m N	Gravel Pit	1881	2307616
30	497m NE	Gravel Pit	1913	2209395
Y	498m NE	Gravel Pit	1913 - 1932	2308063

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**42**

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 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 15 >**

ID	Location	Land use	Dates present	Group ID
E	141m E	Unspecified Tank	1935	420112
H	152m S	Unspecified Tank	1972 - 1990	418452
H	153m S	Tanks	1935 - 1967	398856
7	156m NE	Unspecified Tank	1935	413861
F	157m SE	Unspecified Tank	1966	404664
F	158m SE	Unspecified Tank	1967	400055
8	159m E	Unspecified Tank	1935	384817
9	173m SE	Tanks	1972 - 1990	430294
H	173m S	Tanks	1989 - 1990	421033
H	175m S	Tanks	1972	409735
F	180m SE	Tanks	1972	402067

ID	Location	Land use	Dates present	Group ID
F	180m SE	Tanks	1966	423833
F	181m SE	Tanks	1967	425160
H	182m S	Tanks	1989 - 1990	431808
H	182m S	Tanks	1972	422575
F	185m SE	Tanks	1967	414462
H	192m S	Tanks	1972	419077
F	193m S	Tanks	1972	377194
F	197m SE	Tanks	1989	412114
F	200m SE	Tanks	1972	414804
H	202m S	Tanks	1972 - 1990	423108
F	210m S	Tanks	1967	427792
F	210m S	Tanks	1966	417217
F	210m S	Tanks	1972	431822
D	214m W	Unspecified Tank	1986	395378
D	216m W	Tanks	1935	398740
F	217m S	Tanks	1967	410509
D	230m W	Unspecified Tank	1914	395388
10	232m SE	Unspecified Tank	1979	415129
D	234m W	Unspecified Tank	1935	423880
J	238m SE	Tanks	1966 - 1989	398269
J	247m SE	Tanks	1966 - 1989	407998
J	263m SE	Tanks	1989	403330
D	280m W	Unspecified Tank	1899	395382
R	308m SE	Tanks	1972 - 1989	422679
R	312m SE	Tanks	1966 - 1967	429950
P	409m E	Unspecified Tank	1895	384819
Y	433m NE	Unspecified Tank	1978	395389
AD	436m S	Unspecified Tank	1966 - 1992	427127

ID	Location	Land use	Dates present	Group ID
AD	436m S	Unspecified Tank	-	376278
AD	449m S	Unspecified Tank	1967	384809
Y	486m E	Unspecified Tank	1980	395381

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m **44**

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 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 15 >**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Electricity Substation**	**1989 - 1992**	**299860**
C	12m NW	Electricity Substation	1978	304081
C	13m NW	Electricity Substation	1979	308656
C	13m NW	Electricity Substation	1979	320093
C	13m NW	Electricity Substation	1989	320117
E	73m E	Electricity Substation	1978 - 1989	319385
E	82m E	Electricity Substation	1992	273880
H	108m S	Gas Turbine Establishment	1984	275390
H	108m S	Gas Turbine Establishment	-	265918
2	110m N	Electricity Substation	1978 - 1992	288185
H	160m S	Electricity Substation	1972	303991
H	168m S	Electricity Substation	1989 - 1990	310059
D	174m W	Electricity Substation	-	265702
D	175m W	Electricity Substation	1986	271828
D	230m W	Electricity Substation	1990	272193

ID	Location	Land use	Dates present	Group ID
F	241m S	Electricity Substation	1989 - 1990	280263
J	242m SE	Electricity Substations	1972	275218
J	243m SE	Electricity Substation	1989	310500
L	244m S	Electricity Substation	1972	302854
L	245m S	Electricity Substation	1989 - 1990	321085
M	249m E	Electricity Substation	1978 - 1992	310962
J	250m SE	Electricity Substation	1989	291560
G	264m E	Electricity Substation	1979 - 1992	303175
G	326m E	Electricity Substation	1979	286040
G	333m E	Electricity Substation	1989 - 1992	284808
G	344m E	Electricity Substation	1978 - 1992	314281
16	372m S	Electricity Substation	1989 - 1990	297959
T	372m N	Electricity Substation	1996	293948
T	373m N	Electricity Substation	1986	311219
T	375m N	Electricity Substation	-	266040
18	378m NE	Electricity Substation	1978 - 1992	307385
X	384m NW	Electricity Substation	1973	277247
X	385m NW	Electricity Substation	1986 - 1992	309925
19	392m SE	Electricity Substation	1972 - 1989	316980
AA	403m NW	Electricity Substation	-	265703
AA	405m NW	Electricity Substation	1986 - 1990	286910
AB	407m S	Electricity Substation	1972	277678
Z	414m E	Electricity Substation	1993	269382
AB	414m S	Electricity Substation	1989 - 1990	282722
Z	415m E	Electricity Substation	1978 - 1980	297883
AC	418m W	Electricity Substation	-	265704
AC	418m W	Electricity Substation	1986 - 1990	288785
AG	464m SW	Electricity Substation	1984 - 1992	302474

ID	Location	Land use	Dates present	Group ID
26	479m W	Electricity Substation	1984	308329

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 un-grouped 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	16

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
G	325m E	Repairing Yard	1935	88035
U	374m SW	Garage	1966	90550
X	399m NW	Vehicle Body Repair Works	1973	82129
X	400m NW	Repair Works	1987	86725
X	400m NW	Repair Works	1986 - 1987	84834
U	417m SW	Garage	1967	84810
X	428m NW	Motor Repair Works	1973	82175
U	429m SW	Garage	-	81077
U	429m SW	Garage	1992	85900
U	432m SW	Garage	1984	91886

ID	Location	Land use	Dates present	Group ID
AI	473m SW	Garage	1984 - 1992	86748
AI	474m SW	Garage	-	81076
AI	474m SW	Garage	1966	82715
AI	474m SW	Garage	1967	85711
O	487m W	Garage	-	81069
O	488m W	Garage	1965 - 1966	82527

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	256

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 29 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1990**	**2171351**
A	**On site**	**Unspecified Factory**	**1975**	**2200137**
A	**On site**	**Unspecified Works**	**1970**	**2182804**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Unspecified Factory**	**1970**	**2200138**
D	16m S	Railway Sidings	1913	2241305
D	16m S	Railway Sidings	1894	2301254
D	17m S	Railway Sidings	1932	2234460
D	19m S	Railway Sidings	1938	2331322
D	20m S	Railway Sidings	1938	2331322
D	20m S	Railway Sidings	1960	2303211
D	21m S	Railway Sidings	1935	2234460
D	21m S	Railway Sidings	1913	2330003
D	21m S	Railway Sidings	1894	2301254
D	23m S	Railway Sidings	1898	2240040
E	34m SE	Printing Works	1913	2225849
E	37m SE	Printing Works	1913	2300619
E	43m SE	Printing Works	1932	2225849
E	43m SE	Printing Works	1938	2205929
F	44m S	Railway Sidings	1938	2303912
E	45m SE	Unspecified Works	1960	2273977
D	47m SW	Railway Building	1990	2234488
D	47m SW	Railway Building	1975	2234488
F	48m S	Railway Sidings	1935	2324660
E	49m SE	Unspecified Works	1970	2280639
G	49m SE	Industrial Park	1990	2166868
G	49m SE	Unspecified Works	1975	2230024
E	53m SE	Dock	1894	2168116
F	56m SE	Railway Sidings	1898	2317204
H	57m S	Chemical Works	1932	2272617
I	57m SE	Railway Sidings	1913	2317204
I	57m SE	Railway Sidings	1960	2305481

ID	Location	Land Use	Date	Group ID
F	58m S	Unspecified Pit	1868	2176609
F	60m SE	Railway Sidings	1894	2306307
I	60m SE	Railway Sidings	1913	2296904
F	62m SE	Railway Sidings	1894	2278601
E	62m SE	Printing Works	1935	2205929
I	62m SE	Railway Sidings	1932	2251675
H	62m S	Unspecified Works	1990	2295947
H	62m S	Unspecified Works	1975	2260034
F	63m S	Helical Gear Works	1938	2325754
F	65m S	Brick Field	1894	2227603
I	65m SE	Unspecified Works	1970	2182805
E	66m SE	Pumping Works	1938	2166451
F	68m S	Brick Field	1894	2315364
I	70m SE	Railway Building	1938	2196076
F	71m SE	Helical Gear Works	1932	2300037
F	71m S	Brick Field	1898	2283483
H	72m S	Unspecified Commercial/Industrial	1935	2171290
F	74m SE	Helical Gear Works	1913	2231518
I	74m SE	Railway Buildings	1938	2288137
F	76m SE	Helical Gear Works	1913	2231518
F	78m SE	Helical Gear Works	1935	2263776
F	84m SE	Railway Sidings	1938	2217685
F	84m SE	Helical Gear Works	1938	2263776
F	84m S	Railway Sidings	1960	2301626
F	84m S	Unspecified Works	1960	2282228
H	84m S	Unspecified Works	1987	2285901
H	86m S	Unspecified Works	1970	2272690
F	87m S	Works	1964	2167159

ID	Location	Land Use	Date	Group ID
F	87m S	Railway Sidings	1964	2301626
F	92m S	Unspecified Works	1970	2290363
F	92m S	Unspecified Works	1987	2290363
F	92m S	Unspecified Works	1974	2290363
I	97m SE	Railway Buildings	1913	2237894
I	98m SE	Railway Buildings	1913	2237894
I	98m SE	Railway Buildings	1894	2315636
1	101m W	Unspecified Pit	1881	2176606
E	105m E	Dock	1932	2253299
E	105m E	Dock	1898	2230286
I	106m SE	Railway Sidings	1938	2232907
E	114m E	Unspecified Dock	1913	2285030
E	114m E	Unspecified Dock	1894	2270637
G	120m E	Unspecified Works	1960	2203260
E	123m E	Concrete Works	1938	2322108
H	125m SW	Chemical Works	1868	2226077
G	125m E	Concrete Works	1938	2317143
2	126m E	Brick Field	1898	2276093
G	126m E	Brick Field	1868	2229469
H	127m SW	Chemical Works	1898	2219025
H	128m SW	Chemical Works	1913	2295576
H	128m SW	Chemical Works	1894	2249246
H	131m SW	Chemicals Works	1913	2297215
H	131m SW	Chemicals Works	1894	2256824
K	132m NE	Unspecified Works	1970	2276577
K	132m NE	Unspecified Works	1960	2327921
E	132m E	Unspecified Works	1970	2257604
K	133m NE	Regulator and Instrument Works	1935	2265345

ID	Location	Land Use	Date	Group ID
K	134m NE	Instrument Works	1938	2182291
K	136m E	Unspecified Works	1975	2283572
K	138m E	Regulator and Instrument Works	1938	2265345
3	143m SE	Railway Sidings	1960	2230715
D	145m W	Dock	1938	2302598
D	145m W	Dock	1938	2302598
D	147m W	Dock	1932	2280964
D	150m W	Pumping Station	1975	2202693
D	150m W	Unspecified Dock	1935	2317772
4	151m NW	Dock	1898	2325872
L	152m SE	Railway Sidings	1938	2214498
D	155m W	Unspecified Heap	1990	2282858
D	155m W	Unspecified Heap	1975	2282858
D	155m W	Unspecified Heap	1970	2282858
N	157m SE	Unspecified Station	1970	2264186
N	157m SE	Unspecified Station	1987	2264186
N	157m SE	Unspecified Station	1974	2264186
D	160m W	Unspecified Pit	1868	2176605
F	166m SE	Railway Sidings	1964	2304733
L	169m SE	Railway Sidings	1964	2230715
G	171m E	Unspecified Dock	1894	2327551
D	172m SW	Railway Buildings	1938	2245622
D	174m SW	Railway Buildings	1938	2251024
D	175m SW	Railway Buildings	1935	2251024
G	179m E	White Lead Works	1938	2173843
D	195m W	Dock	1913	2280964
D	195m W	Unspecified Dock	1913	2267980
D	202m W	Pumping Station	1938	2295607

ID	Location	Land Use	Date	Group ID
G	202m E	Concrete Works	1935	2243167
D	209m W	Pumping Station	1913	2252046
D	209m W	Pumping Station	1932	2252046
D	209m W	Pumping Station	1938	2295607
D	210m W	Unspecified Tanks	1938	2303862
D	211m W	Pumping Station	1935	2216416
D	212m W	Unspecified Tanks	1938	2303862
D	213m W	Cement Works	1894	2240670
D	213m W	Railway Sidings	1938	2211084
D	214m W	Cement Works	1894	2240670
D	214m W	Railway Sidings	1938	2211084
D	216m W	Pumping Station	1913	2263159
D	219m W	Railway Sidings	1881	2280476
D	223m W	Railway Sidings	1935	2293429
D	224m W	Unspecified Works	1970	2182803
D	226m SW	Railway Sidings	1898	2286283
D	227m W	Unspecified Heap	1990	2331647
D	227m W	Unspecified Heap	1975	2331647
D	227m W	Unspecified Heap	1970	2331647
G	233m E	Railway Sidings	1938	2237226
G	233m E	Brick Field	1881	2265403
G	236m E	Railway Sidings	1935	2264956
G	238m E	Railway Sidings	1938	2264956
Q	241m E	Unspecified Works	1970	2283572
6	245m SE	Railway Buildings	1894	2160498
S	247m NE	Brick Field	1894	2298935
G	247m E	Unspecified Works	1970	2299300
T	248m E	Refuse Heap	1935	2159637

ID	Location	Land Use	Date	Group ID
S	249m NE	Brick Field	1894	2298935
7	258m E	Dock	1913	2168111
D	258m W	Dock	1938	2294183
D	260m W	Dock	1960	2291042
U	263m S	Unspecified Ground Workings	1935	2291503
U	264m S	Unspecified Ground Workings	1938	2230587
U	264m S	Unspecified Ground Workings	1938	2230587
U	266m S	Unspecified Ground Workings	1938	2271348
V	269m W	Railway Sidings	1868	2269828
V	271m W	Railway Land	1935	2201085
D	272m W	Railway Building	1938	2261564
D	275m W	Railway Building	1935	2261564
D	275m W	Dock	1970	2290808
N	275m SE	Railway Sidings	1894	2229142
V	280m W	Railway Sidings	1913	2224233
V	280m W	Railway Sidings	1894	2266296
V	281m W	Railway Station	1913	2231507
W	290m SE	Railway Sidings	1898	2272688
8	291m SE	Railway Sidings	1894	2301111
V	297m W	Railway Station	1894	2328486
X	297m W	Cement Works	1898	2205992
D	312m W	Unspecified Tank	1938	2191428
9	314m W	Gravel Pit	1881	2194176
G	314m E	Unspecified Dock	1913	2239362
G	321m E	Dock	1932	2266000
G	321m E	Dock	1898	2230820
X	325m W	Unspecified Works	1990	2318894
X	325m W	Unspecified Works	1975	2318894

ID	Location	Land Use	Date	Group ID
X	325m W	Unspecified Works	1970	2318894
G	328m E	Dock	1894	2285729
N	333m SE	Railway Sidings	1898	2262964
G	344m E	Unspecified Warehouses	1975	2199168
Z	347m SE	Unspecified Works	1987	2245906
Z	347m SE	Unspecified Works	1974	2311910
Z	356m SE	Unspecified Works	1970	2323000
G	370m E	Unspecified Works	1960	2182726
10	372m W	Gravel Pit	1868	2194093
G	375m E	White Lead Works	1935	2173844
AD	378m W	Smithy	1898	2325574
AE	378m SE	Brick Field	1894	2307785
AE	379m SE	Brick Field	1894	2226329
G	383m E	Unspecified Works	1970	2182727
AD	384m W	Smithy	1894	2232553
V	389m W	Railway Buildings	1938	2226286
AG	391m E	Railway Sidings	1913	2315982
AG	391m E	Dock	1913	2281801
V	391m W	Railway Buildings	1935	2243421
V	394m W	Railway Station	1990	2260444
V	394m W	Railway Station	1975	2260444
V	394m W	Railway Station	1970	2260444
V	394m W	Railway Station	1960	2260444
W	395m E	Railway Building	1894	2196216
V	396m W	Railway Station	1932	2273104
V	396m W	Railway Station	1898	2286475
AD	397m W	Smithy	1894	2212306
AE	398m SE	Brick Field	1898	2226329

ID	Location	Land Use	Date	Group ID
V	400m W	Railway Buildings	1938	2243421
V	400m W	Railway Station	1913	2238329
V	400m W	Railway Station	1894	2319451
AD	400m W	Oil Works	1868	2328106
AG	401m E	Railway Sidings	1932	2302730
AG	401m E	Railway Sidings	1913	2247637
G	402m E	Unspecified Depot	1970	2170093
Z	402m SE	Unspecified Commercial/Industrial	1960	2213119
AJ	406m SW	Unspecified Works	1970	2205147
AJ	406m SW	Unspecified Works	1987	2205147
AJ	406m SW	Unspecified Works	1974	2205147
AG	406m E	Railway Sidings	1894	2311322
11	418m E	Unspecified Ground Workings	1970	2257162
AD	419m W	Oil Works	1881	2274584
12	420m E	Unspecified Ground Workings	1960	2231494
AG	422m E	Railway Sidings	1894	2233707
V	422m W	Railway Buildings	1938	2262790
AG	423m E	Unspecified Commercial/Industrial	1935	2171320
AG	425m E	Unspecified Depot	1970	2307610
AG	426m E	Railway Sidings	1935	2243458
AG	426m E	White Lead Works	1938	2173845
AG	427m E	Unspecified Depot	1975	2307610
AG	430m E	Unspecified Works	1990	2266138
AG	434m E	Railway Sidings	1938	2308148
AG	438m E	Railway Sidings	1898	2289150
AG	441m E	Unspecified Works	1970	2236739
AG	441m E	Unspecified Works	1975	2236739
AG	446m NE	Unspecified Works	1975	2260703

ID	Location	Land Use	Date	Group ID
AN	448m N	Unspecified Dock	1894	2188666
AN	449m N	Dock	1894	2168115
AG	453m E	Brick Field	1894	2299085
AM	453m S	Chimney	1970	2292684
AM	453m S	Chimney	1987	2292684
AM	453m S	Chimney	1974	2292684
13	455m S	Nursery	1970	2179714
AO	460m E	Unspecified Ground Workings	1990	2241067
AO	460m E	Unspecified Ground Workings	1975	2241067
AG	461m NE	Unspecified Works	1970	2260703
AG	461m E	Unspecified Pit	1898	2276268
AP	463m SE	Railway Sidings	1898	2297822
AP	468m SE	Railway Sidings	1894	2225472
AQ	470m SW	Smithy	1898	2181150
AR	473m W	Unspecified Works	1970	2257521
14	477m NW	Gravel Pit	1868	2274525
AR	478m W	Unspecified Works	1990	2276405
AR	478m W	Unspecified Works	1975	2276405
AT	480m E	Gravel Pit	1913	2210369
AT	481m E	Gravel Pit	1913	2254820
V	483m W	Railway Building	1938	2196362
16	486m W	Railway Station	1881	2167944
AT	487m E	Gravel Pit	1932	2210369
AG	488m E	Ballast Pit	1938	2268009
AG	488m E	Ballast Pit	1938	2268009
17	488m E	Unspecified Pit	1938	2176442
18	496m N	Gravel Pit	1881	2307616
19	497m NE	Gravel Pit	1913	2209395

ID	Location	Land Use	Date	Group ID
AG	498m NE	Gravel Pit	1913	2308063

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**89**

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 29 >**

ID	Location	Land Use	Date	Group ID
E	141m E	Unspecified Tank	1935	420112
E	141m E	Unspecified Tank	1935	420112
H	152m S	Unspecified Tank	1972	418452
H	153m S	Unspecified Tank	1989	418452
H	153m S	Unspecified Tank	1989	418452
H	153m S	Unspecified Tank	1989	418452
H	153m S	Unspecified Tank	1990	418452
H	153m S	Tanks	1966	398856
H	153m S	Tanks	1967	398856
H	153m S	Tanks	1935	398856
H	153m S	Tanks	1935	398856
M	156m NE	Unspecified Tank	1935	413861
M	156m NE	Unspecified Tank	1935	413861
F	157m SE	Unspecified Tank	1966	404664
F	158m SE	Unspecified Tank	1967	400055
5	159m E	Unspecified Tank	1935	384817
O	173m SE	Tanks	1972	430294
H	173m S	Tanks	1989	421033
H	173m S	Tanks	1989	421033

ID	Location	Land Use	Date	Group ID
H	173m S	Tanks	1989	421033
H	173m S	Tanks	1990	421033
O	174m SE	Tanks	1989	430294
O	174m SE	Tanks	1989	430294
O	174m SE	Tanks	1989	430294
O	174m SE	Tanks	1990	430294
H	175m S	Tanks	1972	409735
F	180m SE	Tanks	1972	402067
F	180m SE	Tanks	1966	423833
F	181m SE	Tanks	1967	425160
H	182m S	Tanks	1989	431808
H	182m S	Tanks	1989	431808
H	182m S	Tanks	1989	431808
H	182m S	Tanks	1990	431808
H	182m S	Tanks	1972	422575
F	185m SE	Tanks	1967	414462
H	192m S	Tanks	1972	419077
F	193m S	Tanks	1972	377194
F	197m SE	Tanks	1989	412114
F	197m SE	Tanks	1989	412114
F	197m SE	Tanks	1989	412114
F	200m SE	Tanks	1972	414804
H	202m S	Tanks	1989	423108
H	202m S	Tanks	1989	423108
H	202m S	Tanks	1989	423108
H	202m S	Tanks	1990	423108
H	202m S	Tanks	1972	423108
F	210m S	Tanks	1967	427792

ID	Location	Land Use	Date	Group ID
F	210m S	Tanks	1972	431822
F	210m S	Tanks	1966	417217
D	214m W	Unspecified Tank	1986	395378
D	216m W	Tanks	1935	398740
D	216m W	Tanks	1935	398740
F	217m S	Tanks	1967	410509
D	230m W	Unspecified Tank	1914	395388
P	232m SE	Unspecified Tank	1979	415129
P	232m SE	Unspecified Tank	1979	415129
D	234m W	Unspecified Tank	1935	423880
D	234m W	Unspecified Tank	1935	423880
L	238m SE	Tanks	1972	398269
L	238m SE	Tanks	1966	398269
L	239m SE	Tanks	1967	398269
L	239m SE	Tanks	1989	398269
L	239m SE	Tanks	1989	398269
L	239m SE	Tanks	1989	398269
L	247m SE	Tanks	1972	407998
L	247m SE	Tanks	1966	407998
L	248m SE	Tanks	1967	407998
L	249m SE	Tanks	1989	407998
L	249m SE	Tanks	1989	407998
L	249m SE	Tanks	1989	407998
L	263m SE	Tanks	1989	403330
L	263m SE	Tanks	1989	403330
L	263m SE	Tanks	1989	403330
D	280m W	Unspecified Tank	1899	395382
Y	308m SE	Tanks	1972	422679

ID	Location	Land Use	Date	Group ID
Y	309m SE	Tanks	1989	422679
Y	309m SE	Tanks	1989	422679
Y	309m SE	Tanks	1989	422679
Y	312m SE	Tanks	1966	429950
Y	313m SE	Tanks	1967	429950
W	409m E	Unspecified Tank	1895	384819
AG	433m NE	Unspecified Tank	1978	395389
AM	436m S	Unspecified Tank	1992	427127
AM	436m S	Unspecified Tank	-	376278
AM	436m S	Unspecified Tank	1966	427127
AM	436m S	Unspecified Tank	1984	427127
AM	437m S	Unspecified Tank	1967	427127
AM	449m S	Unspecified Tank	1967	384809
AG	486m E	Unspecified Tank	1980	395381

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**99**

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 29 >**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Electricity Substation**	**1989**	**299860**
B	**On site**	**Electricity Substation**	**1992**	**299860**
C	12m NW	Electricity Substation	1978	304081
C	13m NW	Electricity Substation	1979	320093
C	13m NW	Electricity Substation	1979	308656
C	13m NW	Electricity Substation	1989	320117

ID	Location	Land Use	Date	Group ID
E	73m E	Electricity Substation	1979	319385
E	73m E	Electricity Substation	1979	319385
E	73m E	Electricity Substation	1989	319385
E	74m E	Electricity Substation	1978	319385
E	82m E	Electricity Substation	1992	273880
H	108m S	Gas Turbine Establishment	1984	275390
H	108m S	Gas Turbine Establishment	-	265918
J	110m N	Electricity Substation	1992	288185
J	110m N	Electricity Substation	1978	288185
J	110m N	Electricity Substation	1979	288185
J	110m N	Electricity Substation	1979	288185
J	110m N	Electricity Substation	1989	288185
H	160m S	Electricity Substation	1972	303991
H	168m S	Electricity Substation	1989	310059
H	168m S	Electricity Substation	1989	310059
H	168m S	Electricity Substation	1989	310059
H	168m S	Electricity Substation	1990	310059
D	174m W	Electricity Substation	-	265702
D	175m W	Electricity Substation	1986	271828
D	230m W	Electricity Substation	1990	272193
F	241m S	Electricity Substation	1989	280263
F	241m S	Electricity Substation	1989	280263
F	241m S	Electricity Substation	1989	280263
F	241m S	Electricity Substation	1990	280263
L	242m SE	Electricity Substations	1972	275218
L	243m SE	Electricity Substation	1989	310500
L	243m SE	Electricity Substation	1989	310500
L	243m SE	Electricity Substation	1989	310500

ID	Location	Land Use	Date	Group ID
R	244m S	Electricity Substation	1972	302854
R	245m S	Electricity Substation	1989	321085
R	245m S	Electricity Substation	1989	321085
R	245m S	Electricity Substation	1989	321085
R	245m S	Electricity Substation	1990	321085
T	249m E	Electricity Substation	1979	310962
T	249m E	Electricity Substation	1979	310962
T	249m E	Electricity Substation	1989	310962
L	250m SE	Electricity Substation	1989	291560
L	250m SE	Electricity Substation	1989	291560
L	250m SE	Electricity Substation	1989	291560
T	250m E	Electricity Substation	1992	310962
T	250m E	Electricity Substation	1978	310962
G	264m E	Electricity Substation	1992	303175
G	264m E	Electricity Substation	1979	303175
G	264m E	Electricity Substation	1979	303175
G	264m E	Electricity Substation	1989	303175
G	326m E	Electricity Substation	1979	286040
G	326m E	Electricity Substation	1979	286040
G	333m E	Electricity Substation	1989	284808
G	334m E	Electricity Substation	1992	284808
G	344m E	Electricity Substation	1979	314281
G	344m E	Electricity Substation	1979	314281
G	344m E	Electricity Substation	1989	314281
G	344m E	Electricity Substation	1992	314281
G	344m E	Electricity Substation	1978	314281
AA	372m S	Electricity Substation	1989	297959
AA	372m S	Electricity Substation	1989	297959

ID	Location	Land Use	Date	Group ID
AA	372m S	Electricity Substation	1989	297959
AA	372m S	Electricity Substation	1990	297959
AB	372m N	Electricity Substation	1996	293948
AB	373m N	Electricity Substation	1986	311219
AB	375m N	Electricity Substation	-	266040
Q	378m NE	Electricity Substation	1979	307385
Q	378m NE	Electricity Substation	1979	307385
Q	378m NE	Electricity Substation	1989	307385
Q	378m NE	Electricity Substation	1992	307385
Q	378m NE	Electricity Substation	1978	307385
AF	384m NW	Electricity Substation	1973	277247
AF	385m NW	Electricity Substation	1987	309925
AF	385m NW	Electricity Substation	1987	309925
AF	385m NW	Electricity Substation	1986	309925
AF	385m NW	Electricity Substation	1986	309925
AF	386m NW	Electricity Substation	1992	309925
AH	392m SE	Electricity Substation	1972	316980
AH	392m SE	Electricity Substation	1989	316980
AH	392m SE	Electricity Substation	1989	316980
AH	392m SE	Electricity Substation	1989	316980
AI	403m NW	Electricity Substation	-	265703
AI	405m NW	Electricity Substation	1986	286910
AI	405m NW	Electricity Substation	1990	286910
AK	407m S	Electricity Substation	1972	277678
AG	414m E	Electricity Substation	1993	269382
AK	414m S	Electricity Substation	1989	282722
AK	414m S	Electricity Substation	1989	282722
AK	414m S	Electricity Substation	1989	282722

ID	Location	Land Use	Date	Group ID
AK	414m S	Electricity Substation	1990	282722
AG	415m E	Electricity Substation	1980	297883
AG	416m E	Electricity Substation	1978	297883
AL	418m W	Electricity Substation	-	265704
AL	418m W	Electricity Substation	1986	288785
AL	418m W	Electricity Substation	1990	288785
AQ	464m SW	Electricity Substation	1984	302474
AQ	465m SW	Electricity Substation	1992	302474
15	479m W	Electricity Substation	1984	308329

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	**21**

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 29 >**

ID	Location	Land Use	Date	Group ID
G	325m E	Repairing Yard	1935	88035
G	325m E	Repairing Yard	1935	88035
AC	374m SW	Garage	1966	90550
AF	399m NW	Vehicle Body Repair Works	1973	82129

ID	Location	Land Use	Date	Group ID
AF	400m NW	Repair Works	1987	86725
AF	400m NW	Repair Works	1986	84834
AF	400m NW	Repair Works	1987	84834
AF	400m NW	Repair Works	1986	84834
AC	417m SW	Garage	1967	84810
AF	428m NW	Motor Repair Works	1973	82175
AC	429m SW	Garage	-	81077
AC	429m SW	Garage	1992	85900
AC	432m SW	Garage	1984	91886
AS	473m SW	Garage	1984	86748
AS	474m SW	Garage	1992	86748
AS	474m SW	Garage	-	81076
AS	474m SW	Garage	1966	82715
AS	474m SW	Garage	1967	85711
V	487m W	Garage	-	81069
V	488m W	Garage	1965	82527
V	488m W	Garage	1966	82527

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

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	2

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 48 >**

ID	Location	Details		
4	428m E	Site Address: Stockley Trident, Yiewsley, Hillingdon, London Licence Holder Address: -	Waste Licence: Yes Site Reference: DL325, 8HI047, HIL56B Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/08/1990 Licence Surrender: 15/03/1993	Operator: - Licence Holder: Yiewsley and West Drayton Council First Recorded 31/12/1928 Last Recorded: 02/08/1993
7	495m E	Site Address: Stockley Park West, Stockley Park, Middlesex Licence Holder Address: -	Waste Licence: Yes Site Reference: 8HI046, DL254, HIL56A Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 25/06/1987 Licence Surrender: 15/03/1993	Operator: - Licence Holder: Stockley Park Consortium Limited First Recorded 31/12/1921 Last Recorded: 19/03/1993

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

3.5 Historical waste sites

Records within 500m	1

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 48 >**

ID	Location	Address	Further Details	Date
5	488m W	Site Address: De Burgh Arms Hotel, High Street, Yiewsley, WEST DRAYTON, Hillingdon, UB7 7DQ	Type of Site: Waste Transfer Station (Alterations) Planning application reference: 9552/APP/2005/167 Description: Scheme comprises installation of a universal superloo. An application (ref: 9552/APP/2005/167) for Detailed Planning permission was submitted to Hillingdon L.B. on 10th March 2005. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	31

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 48 >**

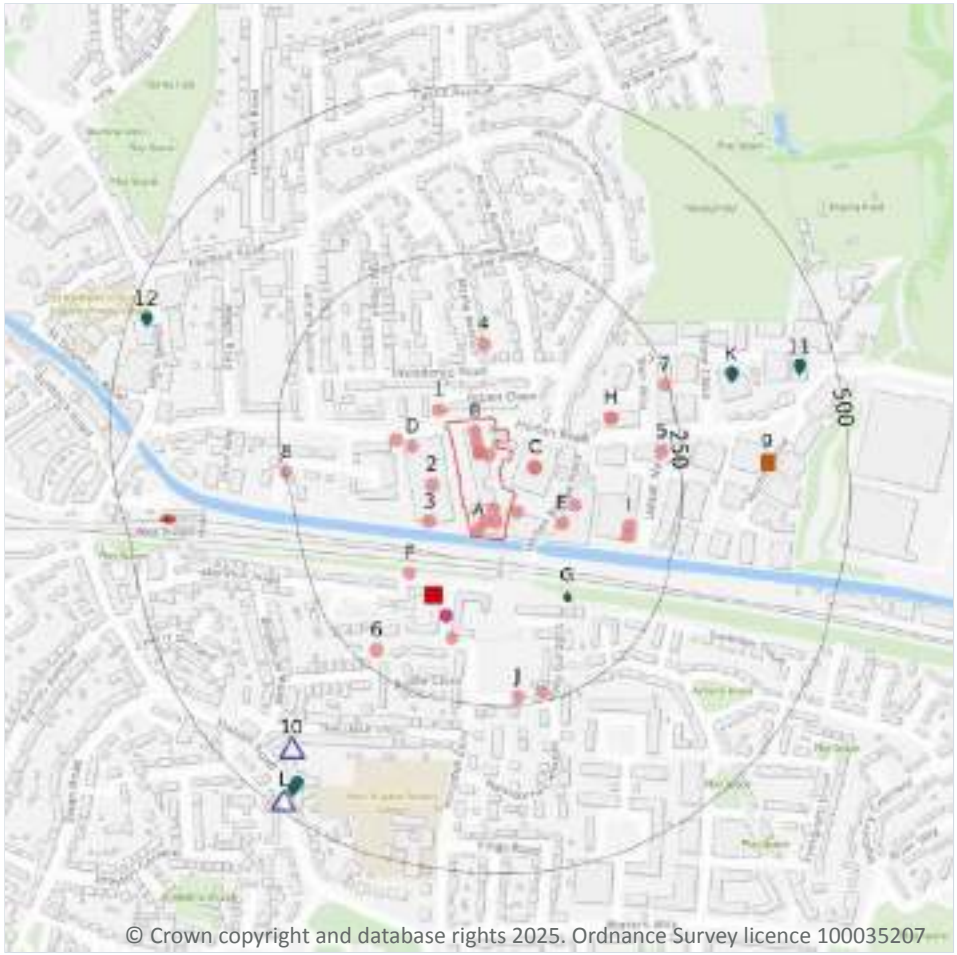
ID	Location	Site	Reference	Category	Sub-Category	Description
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX380764	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX380764	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX406366	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX406366	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX251040	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	37m E	Horton Road, Yiewsley, West Drayton, Ub7 8jl	WEX251040	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	37m W	Unit 3-4 North Point Business Centre Horton Road West Drayton Hillingdon Ub7 8eq	EPR/YF0806HW/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
B	37m W	Unit 3-4 North Point Business Centre Horton Road West Drayton Hillingdon Ub7 8eq	EPR/YF0806HW/A001	Treating waste exemption	Non-agricultural waste only	Manual treatment of waste
1	156m NE	Arco Ltd, 10 Crown Business Centre, Horton Road, West Drayton, Ub7 8hp	WEX153739	Storing waste exemption	Not on a farm	Storage of waste in a secure place
2	202m SW	Railway Station Station Approach West Drayton Middlesex Ub7 9dy	EPR/LF0800BH/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
C	216m E	Unit 4 Liddall Way West Drayton Middlesex Ub7 8pg	EPR/CF0639RH/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
C	216m E	Unit 4 Liddall Way West Drayton Middlesex Ub7 8pg	EPR/CF0639RH/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
3	241m NE	10 Crown Business Centre Hillingdon Ub7 8hp	EPR/ME5342EE/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
D	375m NW	Wholesale Lighting And Supplies, 57-59 Fairfield Road, West Drayton, Ub7 8ez	WEX088391	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	382m NW	Lama Electrical Wholesale 57-59 Fairfield Road West Drayton Ub7 8ez	EPR/KE5886QQ/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
E	406m E	6 Chancerygate Industrial Centre Horton Close West Drayton Middlesex Ub7 8ew	EPR/BH0114RE/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
E	412m E	Unit 6 Chancerygate Industrial Centre Horton Close West Drayton Ub7 8ew	EA/EPR/VP3686YH/A001	Treating waste exemption	Non-agricultural waste only	Repair or refurbishment of WEEE

ID	Location	Site	Reference	Category	Sub-Category	Description
F	412m E	Unit B Horton Close West Drayton Middlesex Ub7 8eb	EPR/KF0003XY/A001	Treating waste exemption	Non-agricultural waste only	Recovery of textiles
F	412m E	Unit B Horton Close West Drayton Middlesex Ub7 8eb	EPR/KF0003XY/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
E	414m E	Unit 6 Chancerygate Industrial Estate Horton Close West Drayton Ub7 8ew	EA/EPR/VP3684YX/A001	Treating waste exemption	Non-agricultural waste only	Repair or refurbishment of WEEE
G	423m W	28, High Street, Yiewsley, West Drayton, Ub7 7dp	WEX355624	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	423m W	28, High Street, Yiewsley, West Drayton, Ub7 7dp	WEX228715	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	423m W	28 High Street West Drayton Middlesex Ub7 7dp	EPR/ME5983ET/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
G	423m W	28, High Street, Yiewsley, West Drayton, Ub7 7dp	WEX081889	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	434m NW	84, High Street, Yiewsley, West Drayton, Ub7 7ds	WEX355637	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	434m NW	84, High Street, Yiewsley, West Drayton, Ub7 7ds	WEX228711	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	434m NW	84 High Street West Drayton Middlesex Ub7 7ds	EPR/LE5883EX/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal
H	434m NW	84, High Street, Yiewsley, West Drayton, Ub7 7ds	WEX081891	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
I	474m E	Unit 1a, Horton Road, West Drayton, Slough, Ub7 8hx	WEX245701	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	474m E	Rico Logistics, Unit 1a, Horton Road, West Drayton, London, Ub7 8hx	WEX286201	Storing waste exemption	Not on a farm	Storage of waste in a secure place
6	489m NE	-	WEX379041	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Radioactive Substance Authorisations

Licensed Discharges to controlled waters

Pollutant release to public sewer

List 1 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m	32

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 53 >**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Hopper**	**Greater London, UB7**	**Hoppers and Silos**	**Farming**
A	**On site**	**Pinnacle Doorsets**	**Unit 12 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**General Construction Supplies**	**Industrial Products**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Horton Service Centre Ltd**	**Unit 11 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**Vehicle Repair, Testing and Servicing**	**Repair and Servicing**
A	**On site**	**Industrial Estate**	**Greater London, UB7**	**Business Parks and Industrial Estates**	**Industrial Features**
B	**On site**	**A 1 Cooked Meats Ltd**	**Unit 1 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**Fish, Meat and Poultry Products**	**Foodstuffs**
B	**On site**	**Zinda Foods**	**Unit 3 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**Catering and Non Specific Food Products**	**Foodstuffs**
B	**On site**	**Hydrodragon London Ltd**	**Unit 5 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**Garden Goods**	**Consumer Products**
B	**On site**	**Horton Road Bodyshop**	**Unit 5 Orbital Industrial Estate, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL**	**Vehicle Repair, Testing and Servicing**	**Repair and Servicing**
B	**On site**	**Electricity Sub Station**	**Greater London, UB7**	**Electrical Features**	**Infrastructure and Facilities**
A	11m SE	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
1	23m NW	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
C	37m E	R W C	Unit 3, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL	General Construction Supplies	Industrial Products
C	37m E	Reliance Worldwide Corporation UK	Unit 3, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8JL	Seals, Tapes, Taps and Valves	Industrial Products
2	42m W	Minster	Unit 3 North Point Business Centre, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8EQ	General Construction Supplies	Industrial Products
3	56m SW	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
D	57m NW	D K Tools Ltd	Unit 1 North Point Business Centre, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8EQ	Tools Including Machine Shops	Industrial Products
D	75m NW	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
E	79m SE	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
E	90m E	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
F	109m SW	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
4	112m N	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
H	155m NE	HSS Hire Service Group Ltd	Crown Business Centre 195, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8HP	Construction and Tool Hire	Hire Services
H	155m NE	Arco Ltd	Crown Business Centre 195, Horton Road, Yiewsley, West Drayton, Greater London, UB7 8HP	Workwear	Industrial Products
F	155m S	Tank	Greater London, UB7	Tanks (Generic)	Industrial Features
I	176m E	Rope & Sling Specialists Ltd	Unit 12, Liddall Way, Yiewsley, West Drayton, Greater London, UB7 8PG	Civil Engineers	Engineering Services
I	179m E	Yes Marble Ltd	Unit 11, Liddall Way, Yiewsley, West Drayton, Greater London, UB7 8PG	Stone Quarrying and Preparation	Extractive Industries
5	221m E	Non Standard Socket Screw Ltd	Unit 3, Liddall Way, Yiewsley, West Drayton, Greater London, UB7 8PG	General Construction Supplies	Industrial Products
6	223m SW	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
J	236m S	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities
J	236m S	Top Notch Chauffeurs	2, Holly Gardens, West Drayton, Greater London, UB7 9PE	Vehicle Hire and Rental	Hire Services
7	244m NE	Team Air Express	8, Crown Way, West Drayton, Greater London, UB7 8HZ	Airlines and Airline Services	Transport, Storage and Delivery
8	247m W	Electricity Sub Station	Greater London, UB7	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 53 >**

ID	Location	Company	Address	LPG	Status
10	417m SW	OBSOLETE	70, Station Road, West Drayton, Outer London, UB7 7DZ	Not Applicable	Obsolete
L	486m SW	GULF	127-141, Station Road, West Drayton, Outer London, UB7 7ND	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	7

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 53 >**

ID	Location	Address	Details	
K	344m E	Sipson Group, Stone Close, Horton Road, West Drayton, Middlesex,UB7 8JU	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	344m E	Simpson Coachworks, Stone Close	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	345m E	Sipson Group, Stone Close, Horton Road, West Drayton, Middlesex, UB7 8JU	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
11	446m E	Innovation Stockley Ltd, 241a Horton Road, West Drayton, UB7 8HT	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
L	455m SW	Texaco, 127-133 Station Road, West Drayton, UB7 7ND	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
L	466m SW	Gulf West Drayton Service Station, 129 Station Road, West Drayton, UB7 7ND	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
12	474m NW	Pearl Dry Cleaners, 85 High Street, Yiewsley, West Drayton, UB7 7QH	Process: Dry Cleaning Status: Current 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	**1**

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

Features are displayed on the Current industrial land use map on **page 53 >**

ID	Location	Address	Details	
F	126m S	Ministry Of Defence, Defence Evaluation And Research Agency, Kingston Lane, West Drayton, Middlesex, UB7 9QB	Operator: Ministry Of Defence Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BA2962 Date of approval: 26/05/1998	Effective from: 23/06/1998 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

4.13 Licensed Discharges to controlled waters

Records within 500m	**4**

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

Features are displayed on the Current industrial land use map on page 53 >

ID	Location	Address	Details	
G	128m SE	FACTORYPREMISES,HORTONBRIDGEROA,FACTORYPREMISES,HORTONBRIDGE,ROAD,WESTDRAYTON,MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.1554 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 26/04/1978 Effective Date: 26/04/1978 Revocation Date: 27/05/1992
G	128m SE	FACTORYPREMISES,HORTONBRIDGEROA,FACTORYPREMISES,HORTONBRIDGE,ROAD,WESTDRAYTON,MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.1554 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 26/04/1978 Effective Date: 26/04/1978 Revocation Date: 27/05/1992
G	128m SE	FACTORYPREMISES,HORTONBRIDGEROA,FACTORYPREMISES,HORTONBRIDGE,ROAD,WESTDRAYTON,MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.1554 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 26/04/1978 Effective Date: 26/04/1978 Revocation Date: 27/05/1992
G	128m SE	FACTORYPREMISES,HORTONBRIDGEROA,FACTORYPREMISES,HORTONBRIDGE,ROAD,WESTDRAYTON,MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.1554 Permit Version: 1 Receiving Water: GRAND UNIONCANAL	Status: REVOKED - UNSPECIFIED Issue date: 26/04/1978 Effective Date: 26/04/1978 Revocation Date: 27/05/1992

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	1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 53 >**

ID	Location	Address	Details	
9	380m E	RR SIDWELL LTD, HORTON CLOSE, HORTON CLOSE, WEST DRAYTON, MIDDLESEX, UB7 8EB	Permission reference: AR7629 Local Authority: LONDON BOROUGH OF HILLINGDON First received date: 01/07/2010	Last received date: 01/01/2018 Status: RECEIVED

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

4.16 List 1 Dangerous Substances

Records within 500m	5

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

Features are displayed on the Current industrial land use map on **page 53 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	108m S	Webster Industrial Ltd T/a Sidwells, West Drayton Middx Ub7	Not Active	-	-
F	108m S	Webster Industrial Ltd T/a Sidwells, West Drayton Middx Ub7	Not Active	-	-
F	108m S	R.r.sidwell Horton Close West Drayton	Not Active	-	-
F	108m S	R.r.sidwell Horton Close West Drayton	Not Active	-	-
F	108m S	Sidwells, Horton Close, West Drayton	Not Active	Thames Estuary	Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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.

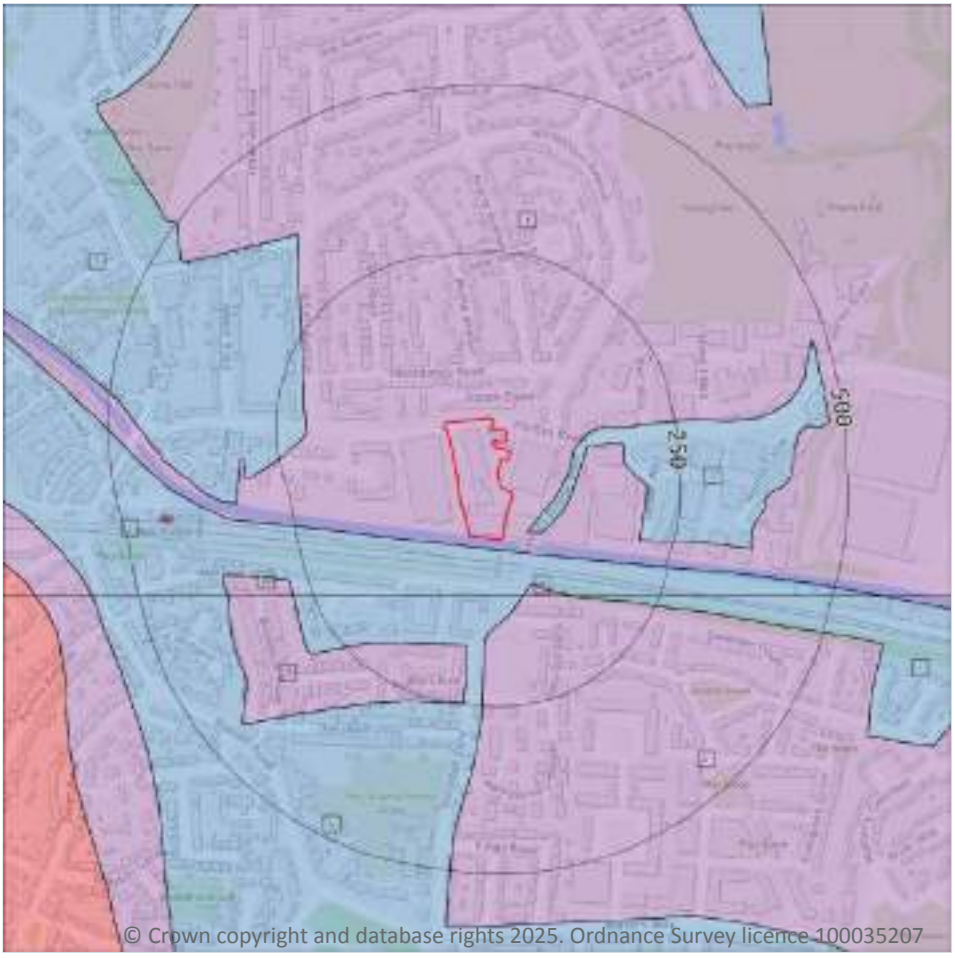
4.21 Pollution inventory radioactive waste

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	10

Aquifer status of groundwater held within superficial geology.

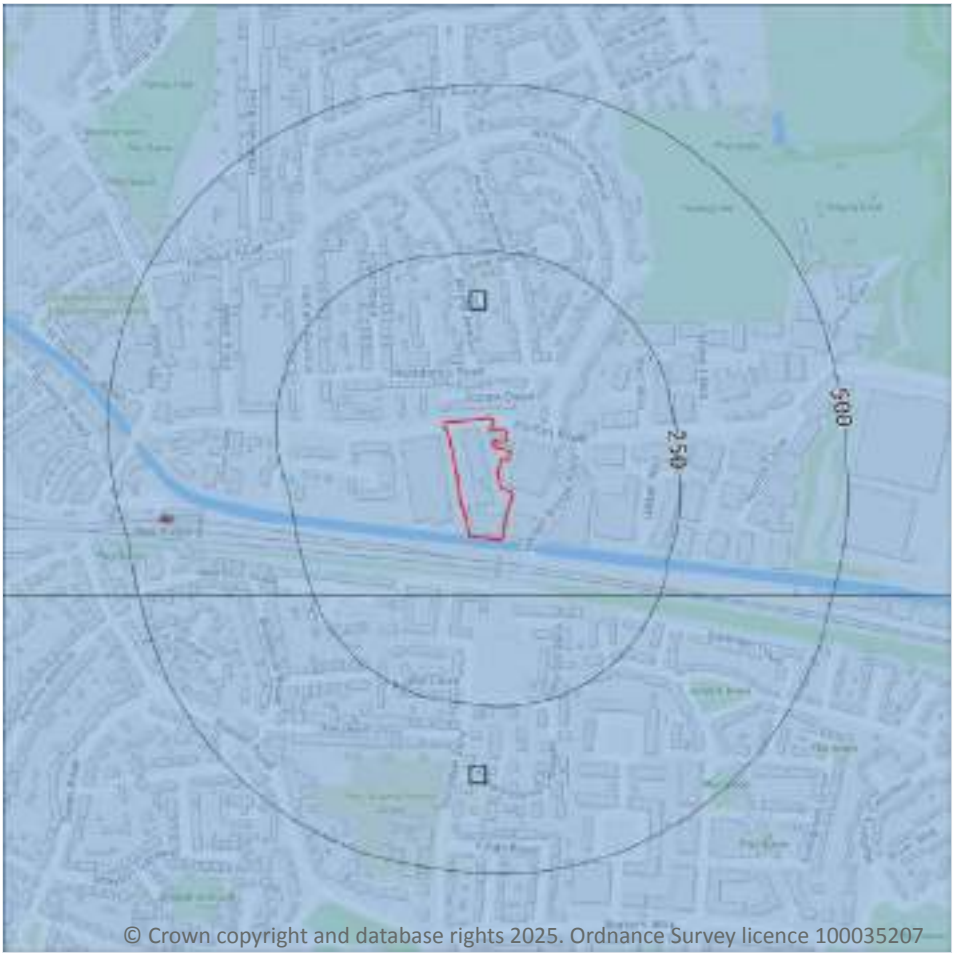
Features are displayed on the Hydrogeology map on **page 62 >**

ID	Location	Designation	Description
1	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
2	16m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	36m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	82m SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
5	84m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	91m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
7	137m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	164m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
9	205m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	276m SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m **2**

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 64 >**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
2	84m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Groundwater vulnerability

Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	3

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 65 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Principal superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year**	**Vulnerability: Medium Aquifer type: Principal Thickness: 3-10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
3	16m S	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
4	36m SE	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

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	**1**

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 ↗.

ID	Summary	Additional information
2	**Highly vulnerable Principal superficial aquifer present in river terrace gravels**	**Principal superficial aquifer in river terrace gravels with only a thin cover of low permeability silts and/or alluvium (shown as unproductive)**

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
- 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	25

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 68 >**

ID	Location	Details	
-	792m E	Status: Active Licence No: TH/039/0036/004/R01 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK (PHASE 3)- BOREHOLE A Data Type: Point Name: Prologis UK CCCIX SARL Easting: 507412 Northing: 180084	Annual Volume (m^3): 3500 Max Daily Volume (m^3): 50 Original Application No: NPS/WR/026745 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	840m E	Status: Historical Licence No: 28/39/36/0067 Details: Spray Irrigation - Storage Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT STOCKLEY PARK (PHASE 3) Data Type: Point Name: STOCKLEY PARK PHASE 3 LIMITED Easting: 507460 Northing: 180230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/03/2001 Expiry Date: 31-Dec-09 Issue No: 1 Version Start Date: 05/03/2001 Version End Date: -
-	840m E	Status: Historical Licence No: 28/39/36/0067 Details: Spray Irrigation - Storage Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK (PHASE 3)- BOREHOLE A Data Type: Point Name: STOCKLEY PARK WEST LIMITED Easting: 507460 Northing: 180230	Annual Volume (m^3): 45411 Max Daily Volume (m^3): 604.8 Original Application No: - Original Start Date: 05/03/2001 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 07/12/2007 Version End Date: -
-	840m E	Status: Historical Licence No: TH/039/0036/004 Details: Spray Irrigation - Storage Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK (PHASE 3)- BOREHOLE A Data Type: Point Name: Horton Road Limited Easting: 507460 Northing: 180230	Annual Volume (m^3): 45411 Max Daily Volume (m^3): 604.8 Original Application No: - Original Start Date: 02/02/2010 Expiry Date: 31/03/2019 Issue No: 2 Version Start Date: 24/09/2015 Version End Date: -
-	840m E	Status: Historical Licence No: TH/039/0036/004 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK (PHASE 3)- BOREHOLE A Data Type: Point Name: Prologis UK CCCIX SARL Easting: 507460 Northing: 180230	Annual Volume (m^3): 45411 Max Daily Volume (m^3): 604.8 Original Application No: - Original Start Date: 02/02/2010 Expiry Date: 31/03/2019 Issue No: 4 Version Start Date: 14/09/2018 Version End Date: -

ID	Location	Details	
-	980m E	Status: Active Licence No: TH/039/0036/012 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE (BOREHOLE) Data Type: Point Name: Stockley Park Golf Club Limited Easting: 507580 Northing: 180410	Annual Volume (m^3): 78000 Max Daily Volume (m^3): 2182 Original Application No: NPS/WR/009158 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	980m E	Status: Active Licence No: TH/039/0036/012 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE (BOREHOLE) Data Type: Point Name: Stockley Park Golf Club Limited Easting: 507580 Northing: 180410	Annual Volume (m^3): 78000 Max Daily Volume (m^3): 2182 Original Application No: NPS/WR/009158 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	980m E	Status: Historical Licence No: 28/39/36/0066 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT STOCKLEY PARK GOLF LIMITED Data Type: Point Name: STOCKLEY PARK GOLF LIMITED Easting: 507580 Northing: 180410	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 11/01/2001 Version End Date: -
-	980m E	Status: Historical Licence No: 28/39/36/0069 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE (BOREHOLE) Data Type: Point Name: STOCKLEY PARK GOLF LIMITED Easting: 507580 Northing: 180410	Annual Volume (m^3): 78000 Max Daily Volume (m^3): 2182 Original Application No: - Original Start Date: 05/11/2001 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 05/11/2001 Version End Date: -
-	980m E	Status: Historical Licence No: 28/39/36/0069 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE (BOREHOLE) Data Type: Point Name: STOCKLEY PARK GOLF LIMITED Easting: 507580 Northing: 180410	Annual Volume (m^3): 78000 Max Daily Volume (m^3): 2182 Original Application No: - Original Start Date: 05/11/2001 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 05/11/2001 Version End Date: -

ID	Location	Details	
-	1472m E	Status: Active Licence No: TH/039/0036/024 Details: Trickle Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: UNLINED LAGOON WITHIN GRAVELS AT STOCKLEY PARK, UXBRIDGE Data Type: Point Name: Stockley Park Estates Company Limited Easting: 508085 Northing: 179976	Annual Volume (m^3): 15606 Max Daily Volume (m^3): 200 Original Application No: NPS/NA/001732 Original Start Date: 07/09/2022 Expiry Date: 31/03/2038 Issue No: 1 Version Start Date: 07/09/2022 Version End Date: -
-	1696m N	Status: Active Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HILLINGDON HOSPITAL- BOREHOLE Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506910 Northing: 181930	Annual Volume (m^3): 138166 Max Daily Volume (m^3): 385.4 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2010 Version End Date: -
-	1696m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE B AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506910 Northing: 181930	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -
-	1698m E	Status: Active Licence No: TH/039/0036/003/R01 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE, BOREHOLE A Data Type: Point Name: Stockley Park Estates Company Limited Easting: 508320 Northing: 180202	Annual Volume (m^3): 30000 Max Daily Volume (m^3): 720 Original Application No: NPS/WR/026744 Original Start Date: 01/04/2019 Expiry Date: 31/03/2026 Issue No: 3 Version Start Date: 01/04/2019 Version End Date: -

ID	Location	Details	
-	1719m E	Status: Historical Licence No: 28/39/36/0065 Details: Make-Up or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT STOCKLEY PARK Data Type: Point Name: STOCKLEY PARK MANAGEMENT LTD Easting: 508340 Northing: 180230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/10/2000 Expiry Date: 31-Dec-09 Issue No: 2 Version Start Date: 25/09/2002 Version End Date: -
-	1719m E	Status: Historical Licence No: 28/39/36/0065 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT STOCKLEY PARK Data Type: Point Name: STOCKLEY PARK MANAGEMENT LTD Easting: 508340 Northing: 180230	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/10/2000 Expiry Date: 31-Dec-09 Issue No: 2 Version Start Date: 25/09/2002 Version End Date: -
-	1719m E	Status: Historical Licence No: 28/39/36/0065 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE- BOREHOLE A Data Type: Point Name: STOCKLEY PARK MANAGEMENT LTD Easting: 508340 Northing: 180230	Annual Volume (m^3): 50005 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 25/10/2000 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 14/04/2003 Version End Date: -
-	1719m E	Status: Historical Licence No: 28/39/36/0065 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE- BOREHOLE A Data Type: Point Name: STOCKLEY PARK MANAGEMENT LTD Easting: 508340 Northing: 180230	Annual Volume (m^3): 50005 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 25/10/2000 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 14/04/2003 Version End Date: -
-	1719m E	Status: Historical Licence No: TH/039/0036/003 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE- BOREHOLE A Data Type: Point Name: STOCKLEY PARK ESTATE MANAGEMENT LIMITED Easting: 508340 Northing: 180230	Annual Volume (m^3): 50005 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 02/02/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 02/02/2010 Version End Date: -

ID	Location	Details	
-	1719m E	Status: Historical Licence No: TH/039/0036/003 Details: Spray Irrigation - Storage Direct Source: THAMES GROUNDWATER Point: STOCKLEY PARK, UXBRIDGE, BOREHOLE A Data Type: Point Name: Stockley Park Estates Company Limited Easting: 508340 Northing: 180230	Annual Volume (m^3): 50005 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 02/02/2010 Expiry Date: 31/03/2019 Issue No: 2 Version Start Date: 15/07/2016 Version End Date: -
-	1877m NE	Status: Historical Licence No: 28/39/28/0277 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: WELL AT LITTLE LONDON NURSERY, HARLINGTON ROAD, HILLINGDON Data Type: Point Name: BARWICK Easting: 507800 Northing: 181700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1996 Version End Date: -
-	1877m NE	Status: Historical Licence No: 28/39/28/0277 Details: Spray Irrigation - Spray Irrigation Definition Order Direct Source: THAMES GROUNDWATER Point: WELL AT LITTLE LONDON NURSERY, HARLINGTON ROAD, HILLINGDON Data Type: Point Name: BARWICK Easting: 507800 Northing: 181700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/02/1967 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1996 Version End Date: -
-	1929m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE C AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506820 Northing: 182180	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -

ID	Location	Details	
-	1929m N	Status: Active Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HILLINGDON HOSPITAL - BOREHOLE Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506950 Northing: 182160	Annual Volume (m^3): 138166 Max Daily Volume (m^3): 385.4 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2010 Version End Date: -
-	1929m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506950 Northing: 182160	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**3**

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 68 >**

ID	Location	Details	
-	1130m E	Status: Historical Licence No: 28/39/36/0038 Details: Dust suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRAND UNION CANAL FRONTAGE AT WEST DRAYTON Data Type: Line Name: BRITISH WATERWAYS BOARD Easting: 507700 Northing: 179800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/03/1976 Expiry Date: - Issue No: 100 Version Start Date: 28/02/1995 Version End Date: -

ID	Location	Details	
-	1176m E	Status: Historical Licence No: 28/39/36/0038 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRAND UNION CANAL AT STOCKLEY ROAD, WEST DRAYTON. Data Type: Line Name: Canal and River Trust Easting: 507770 Northing: 179890	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 160 Original Application No: - Original Start Date: 26/03/1976 Expiry Date: - Issue No: 102 Version Start Date: 17/12/2007 Version End Date: -
-	1852m W	Status: Historical Licence No: 28/39/28/0510 Details: Spray Irrigation - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: COLNE BROOK AT THORNEY FARM, IVER Data Type: Point Name: GRUNDON LEISURE LIMITED Easting: 504700 Northing: 179900	Annual Volume (m^3): 27277 Max Daily Volume (m^3): 181.8 Original Application No: - Original Start Date: 25/09/1992 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1993 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**5**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 68 >**

ID	Location	Details	
-	1696m N	Status: Active Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HILLINGDON HOSPITAL- BOREHOLE Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506910 Northing: 181930	Annual Volume (m^3): 138166 Max Daily Volume (m^3): 385.4 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2010 Version End Date: -

ID	Location	Details	
-	1696m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE B AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506910 Northing: 181930	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -
-	1929m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE C AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506820 Northing: 182180	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -
-	1929m N	Status: Active Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HILLINGDON HOSPITAL - BOREHOLE Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506950 Northing: 182160	Annual Volume (m^3): 138166 Max Daily Volume (m^3): 385.4 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 103 Version Start Date: 01/01/2010 Version End Date: -
-	1929m N	Status: Historical Licence No: 28/39/28/0513 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT HILLINGDON HOSPITAL, HILLINGDON Data Type: Point Name: HILLINGDON HOSPITAL NHS TRUST Easting: 506950 Northing: 182160	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2005 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology

Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	1

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

Features are displayed on the Hydrology map on **page 78 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	7m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Grand Union Canal

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	2

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

Features are displayed on the Hydrology map on **page 78 >**

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 78 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River**	**Pinn**	**GB106039023070**	**Colne**	**Colne**

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

6.4 WFD Surface water bodies

Records identified	2

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 78 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
A	7m S	Canal	Grand Union Canal, Uxbridge to Hanwell Locks, Slough Arm, Padding	GB70610078 ↗	Moderate	Fail	Moderate	2019
-	977m W	River	Pinn	GB106039023070 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 78 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	**On site**	**Lower Thames Gravels**	**GB40603G000300 ↗**	**Poor**	**Good**	**Poor**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

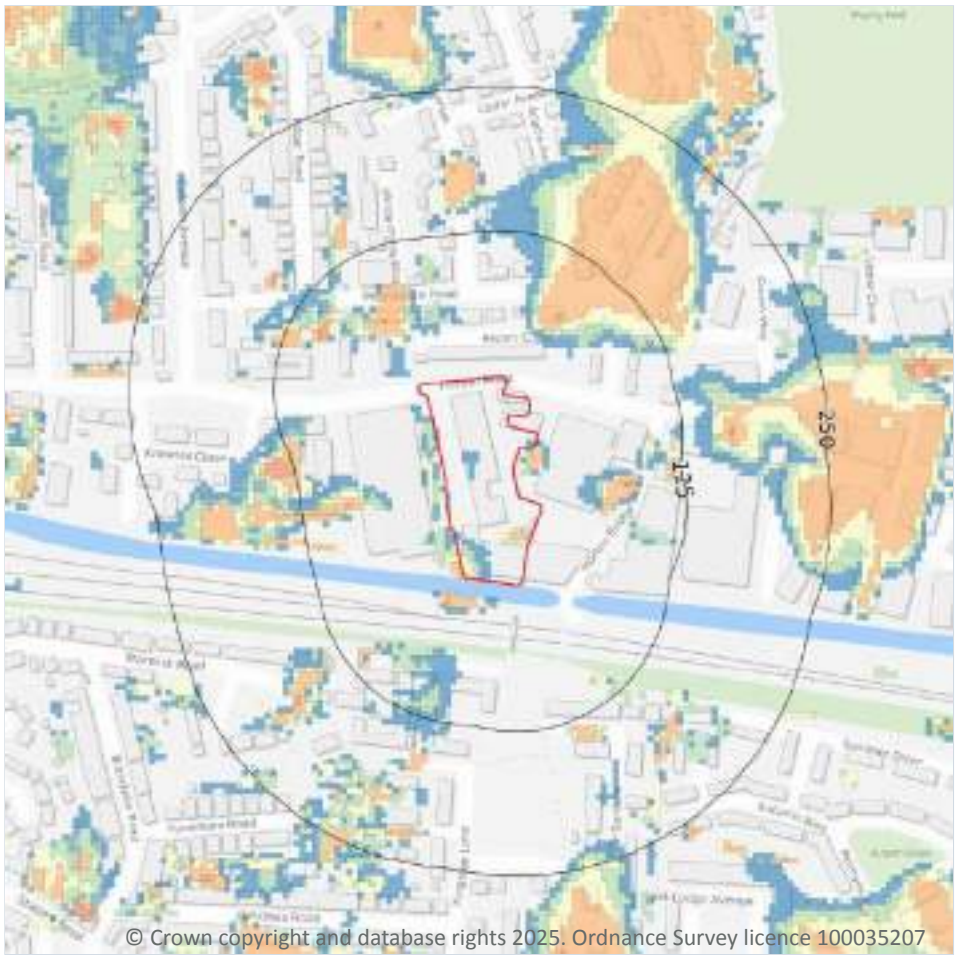
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 84 >**

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	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

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**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 86 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	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	23

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

Features are displayed on the Environmental designations map on **page 87 >**

ID	Location	Name	Local Authority name
1	250m NE	London Green Belt	Hillingdon
2	422m E	London Green Belt	Hillingdon
3	718m SW	London Green Belt	Hillingdon
4	772m NW	London Green Belt	Hillingdon
5	864m W	London Green Belt	Hillingdon
6	916m SE	London Green Belt	Hillingdon
7	1074m E	London Green Belt	Hillingdon
8	1103m NE	London Green Belt	Hillingdon
9	1118m SW	London Green Belt	Hillingdon
10	1155m SE	London Green Belt	Hillingdon
11	1229m W	London Green Belt	Buckinghamshire
12	1248m NE	London Green Belt	Hillingdon
13	1319m SE	London Green Belt	Hillingdon
-	1437m SE	London Green Belt	Hillingdon
-	1572m SE	London Green Belt	Hillingdon
-	1579m S	London Green Belt	Hillingdon
-	1622m SE	London Green Belt	Hillingdon
-	1673m S	London Green Belt	Hillingdon

ID	Location	Name	Local Authority name
-	1673m S	London Green Belt	Hillingdon
-	1780m S	London Green Belt	Hillingdon
-	1790m N	London Green Belt	Hillingdon
-	1842m SE	London Green Belt	Hillingdon
-	1859m N	London Green Belt	Hillingdon

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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

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

SSSI Impact Zones and Units

Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 93 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m².** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**

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.

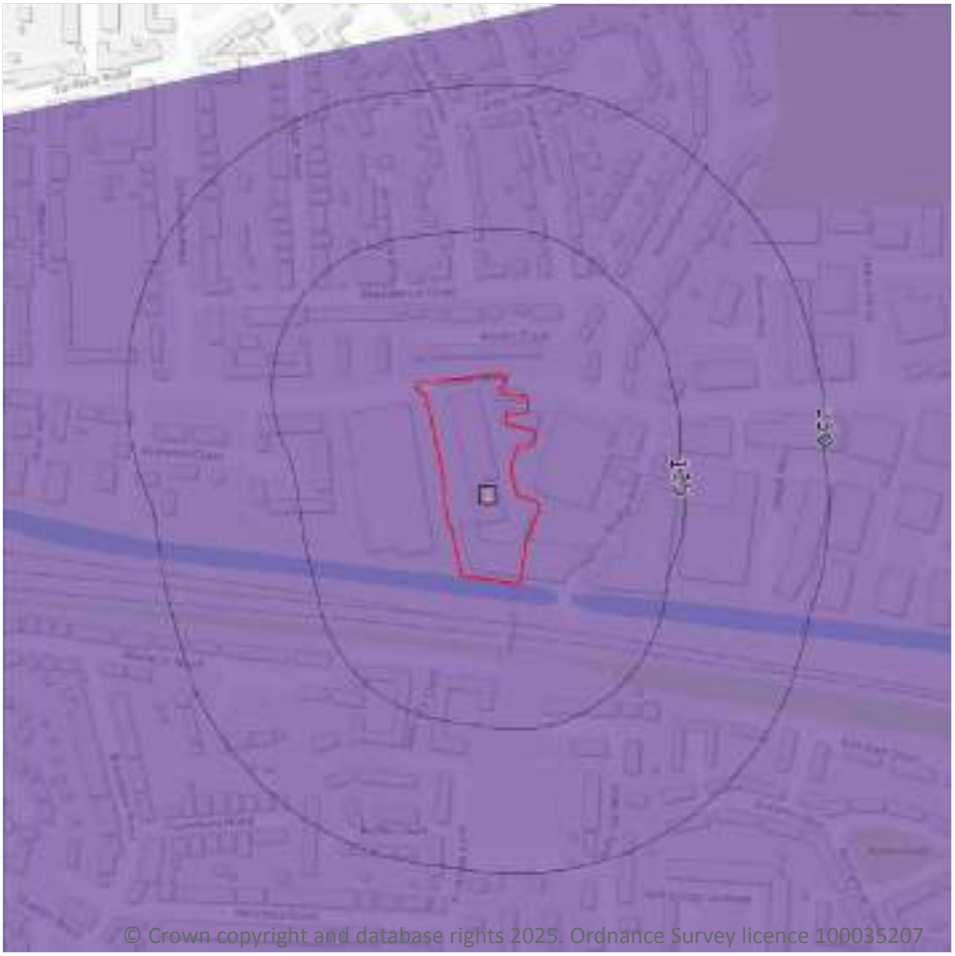
11.7 Registered Parks and Gardens

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 97 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

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	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m **2**

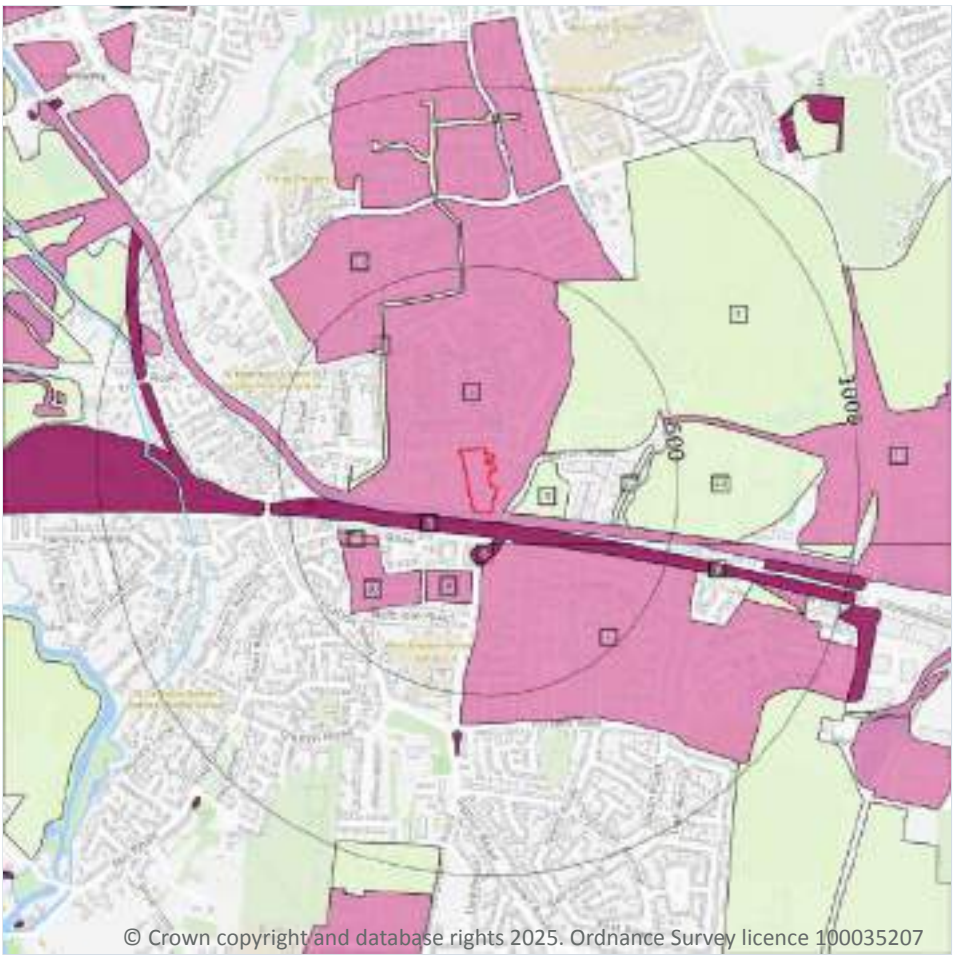
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 100 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**TQ08SE**
2	84m S	Full	Full	Full	No coverage	TQ07NE

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	15

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.

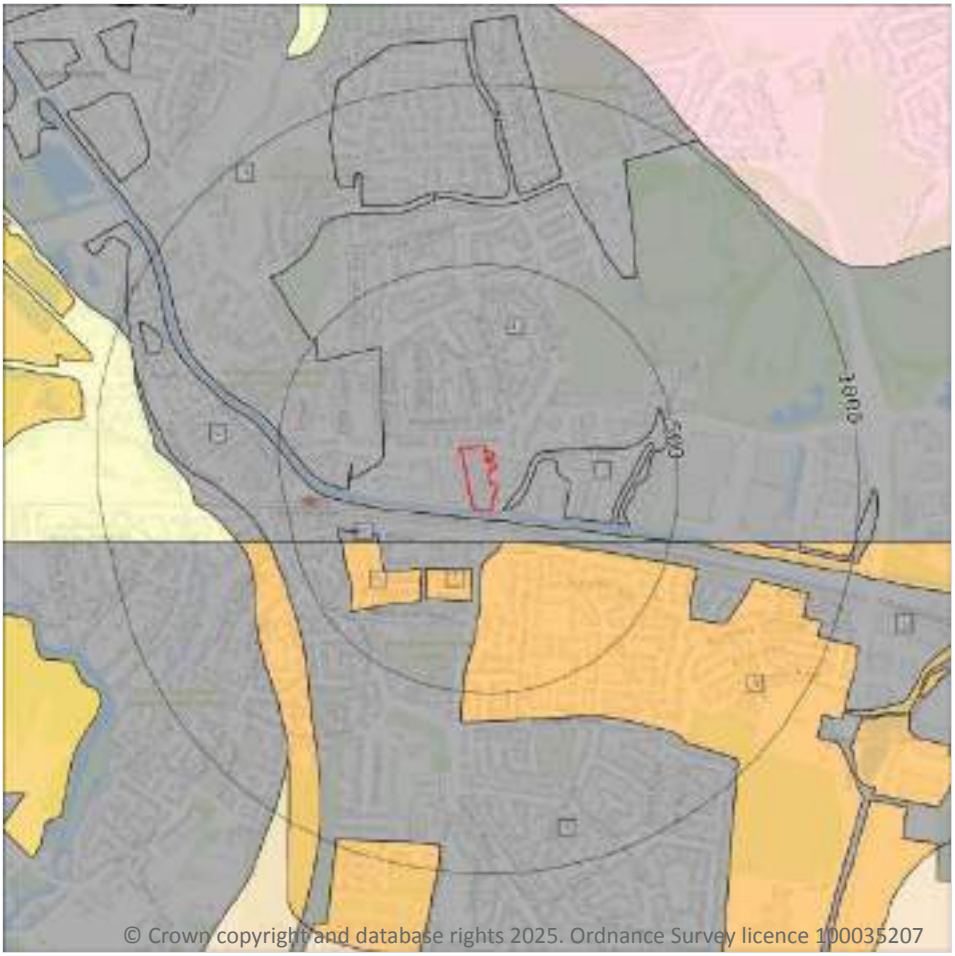
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 101 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
2	24m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	49m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	84m S	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry

ID	Location	LEX Code	Description	Rock description
5	90m S	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry
6	130m SE	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry
7	131m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	164m S	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry
9	195m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	213m SW	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry
11	277m SW	WGR-VOID	Worked Ground (Undivided)	Void
12	328m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	357m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
14	358m NW	WGR-VOID	Worked Ground (Undivided)	Void
15	475m E	WGR-VOID	Worked Ground (Undivided)	Void

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	10

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 103 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**LHGR-V**	**Lynch Hill Gravel Member - Gravel (unlithified Deposits Coding Scheme)**	**Gravel**
2	24m S	LASI-Z	Langley Silt Member - Silt (unlithified Deposits Coding Scheme)	Silt

ID	Location	LEX Code	Description	Rock description
3	31m SE	LASI-Z	Langley Silt Member - Silt (unlithified Deposits Coding Scheme)	Silt
4	84m S	LASI-Z	Langley Silt Member - Silt (unlithified Deposits Coding Scheme)	Silt
5	90m S	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
6	130m SE	LASI-Z	Langley Silt Member - Silt (unlithified Deposits Coding Scheme)	Silt
7	164m S	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
8	205m W	LASI-Z	Langley Silt Member - Silt (unlithified Deposits Coding Scheme)	Silt
9	213m SW	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
10	277m SW	LHGR-V	Lynch Hill Gravel Member - Gravel (unlithified Deposits Coding Scheme)	Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m **2**

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 105 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-CLSISA**	**London Clay Formation - Clay, Silt And Sand**	**Eocene Epoch**
2	84m S	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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.

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	2

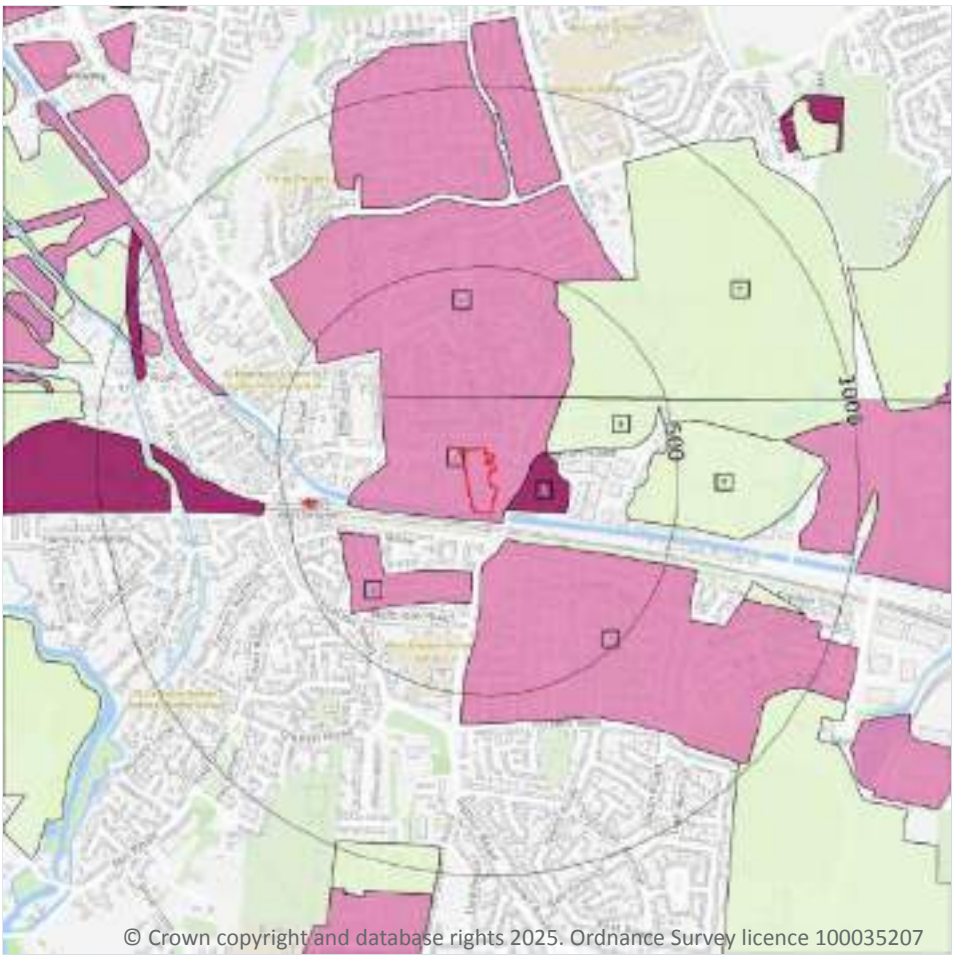
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 107 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW269_windsor_v4**
2	141m N	Full	Full	Full	Full	EW255_beaconsfield_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	8

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 108 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**WORKED GROUND (UNDIVIDED)**	**VOID**
2	36m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	82m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
4	141m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

ID	Location	LEX Code	Description	Rock description
5	143m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
6	164m S	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
7	249m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
8	361m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

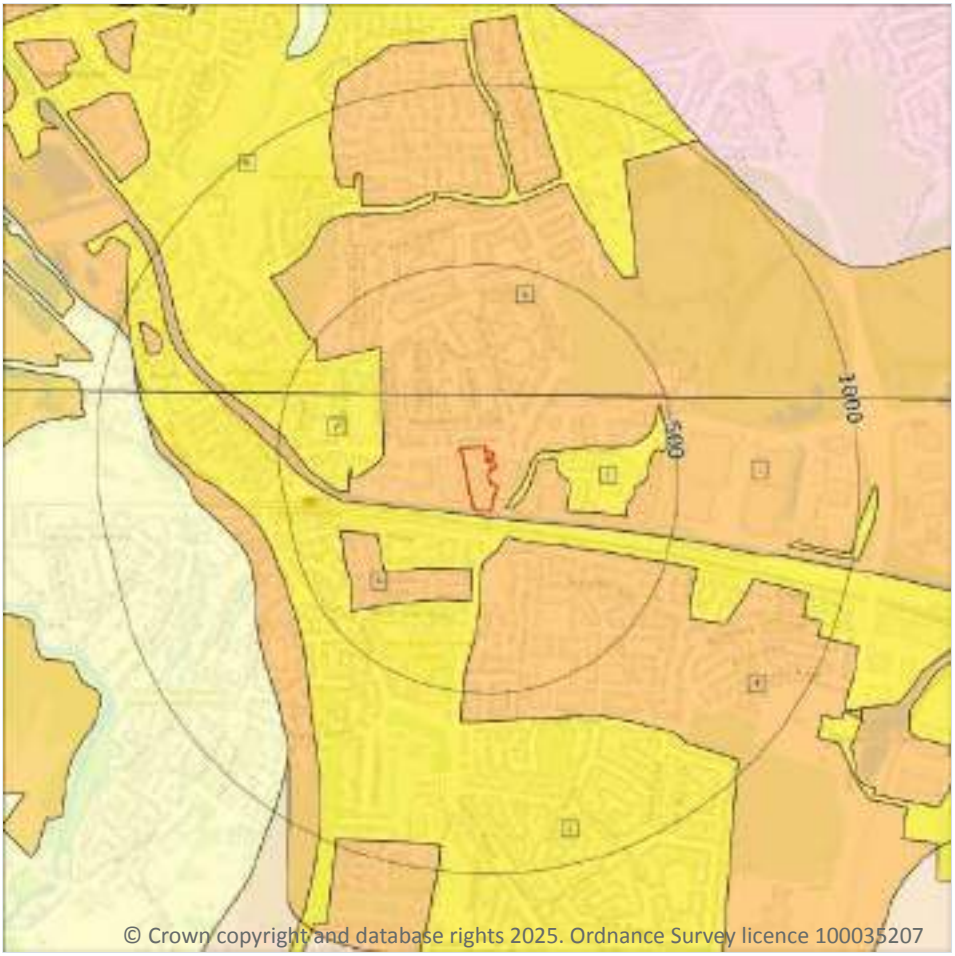
Records within 50m	**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
36m SE	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **8**

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 110 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**LHGR-XSV**	**LYNCH HILL GRAVEL MEMBER**	**SAND AND GRAVEL**
2	16m S	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
3	36m SE	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
4	82m SE	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	141m N	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
6	164m S	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
7	205m W	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
8	263m NW	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**Very High**	**High**
16m S	Mixed	Low	Very Low
36m SE	Mixed	Low	Very 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.

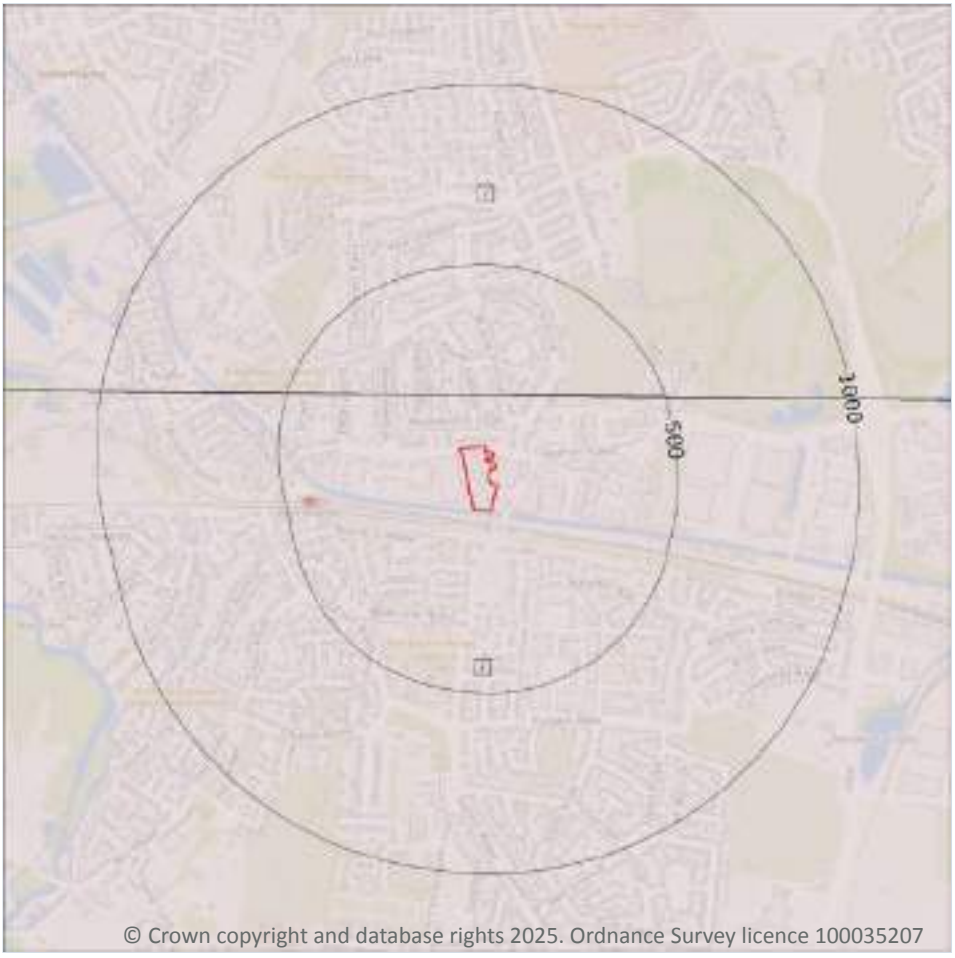
15.7 Landslip permeability (50k)

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 **2**

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 112 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-XCZS**	**LONDON CLAY FORMATION - CLAY, SILT AND SAND**	**YPRESIAN**
2	141m N	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

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	**Mixed**	**Moderate**	**Very Low**

This data is sourced from the British Geological Survey.

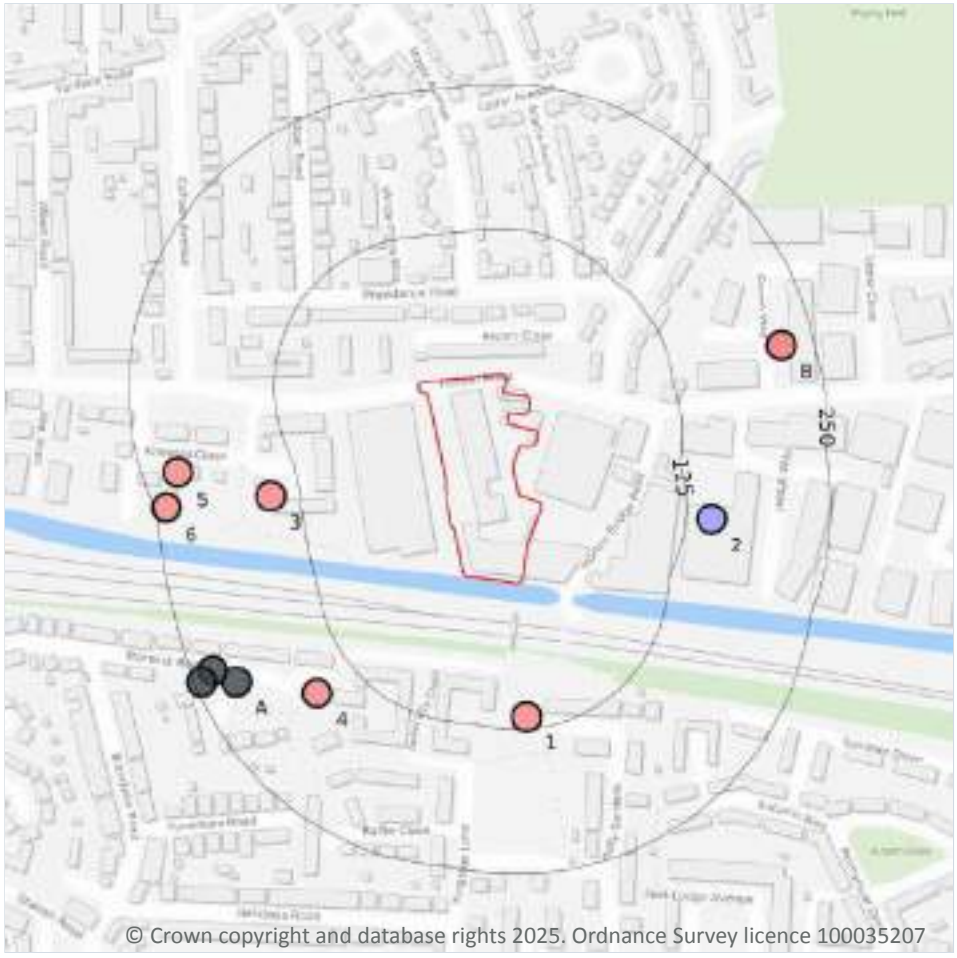
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

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.

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	11

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.

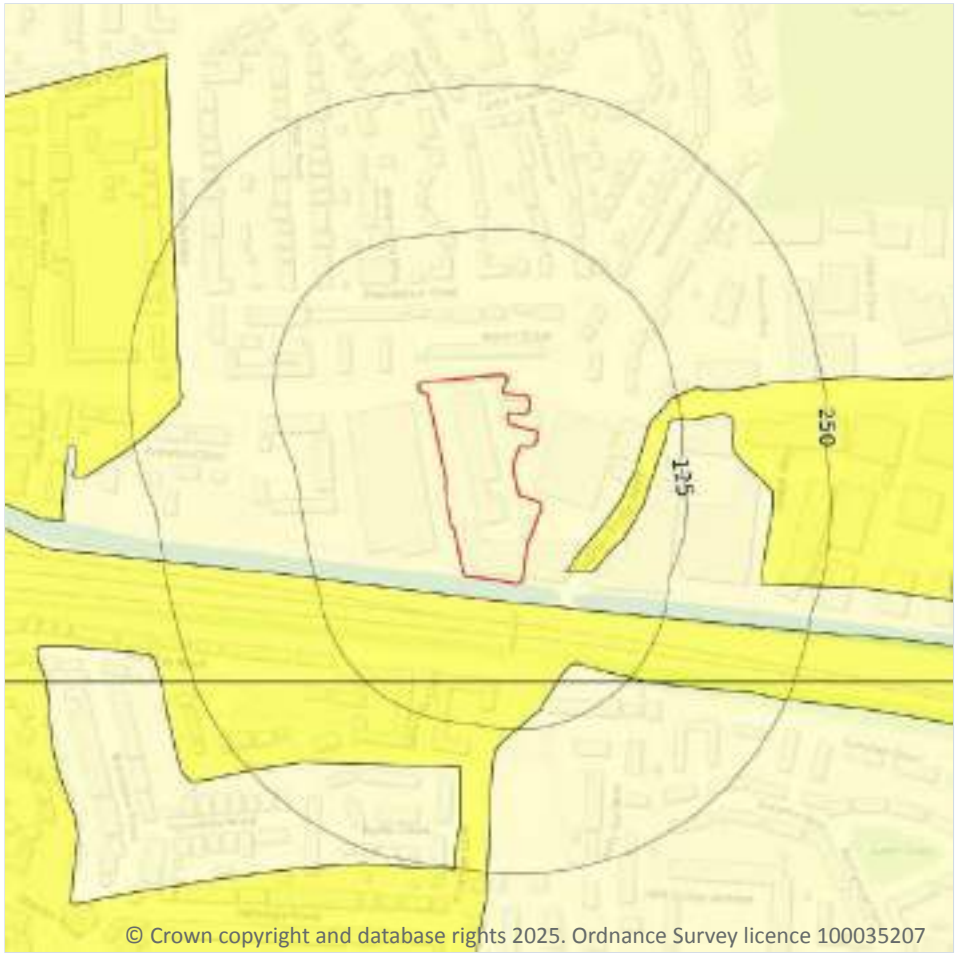
Features are displayed on the Boreholes map on **page 114 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	115m S	506610 179970	KINGSTON LANE YIEWSLEY	70.1	N	574197 ↗
2	147m E	506770 180140	HORTON BRIDGE ROAD	5.79	N	576523 ↗
3	150m W	506390 180160	WEST DRAYTON PUMPING STATION	82.3	N	576592 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	163m SW	506430 179990	WEST DRAYTON	60.35	N	574279 ↗
A	217m SW	506360 180000	DRA WEST DRAYTON PHASE 2 TP E	-	Y	N/A
5	220m W	506310 180180	WEST DRAYTON PUMPING STATION	91.44	N	576582 ↗
B	222m NE	506830 180290	DRAYTON REGULATOR CO, YIEWSLEY	65.53	N	576568 ↗
B	222m NE	506830 180290	DRAYTON REGULATOR CO, YIEWSLEY	91.44	N	576569 ↗
A	232m SW	506340 180010	DRA WEST DRAYTON PHASE 2 TP B	-	Y	N/A
6	241m W	506300 180150	WEST DRAYTON PUMPING STATION	91.44	N	576581 ↗
A	244m SW	506330 180000	DRA WEST DRAYTON PHASE 2 TP D	-	Y	N/A

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	3

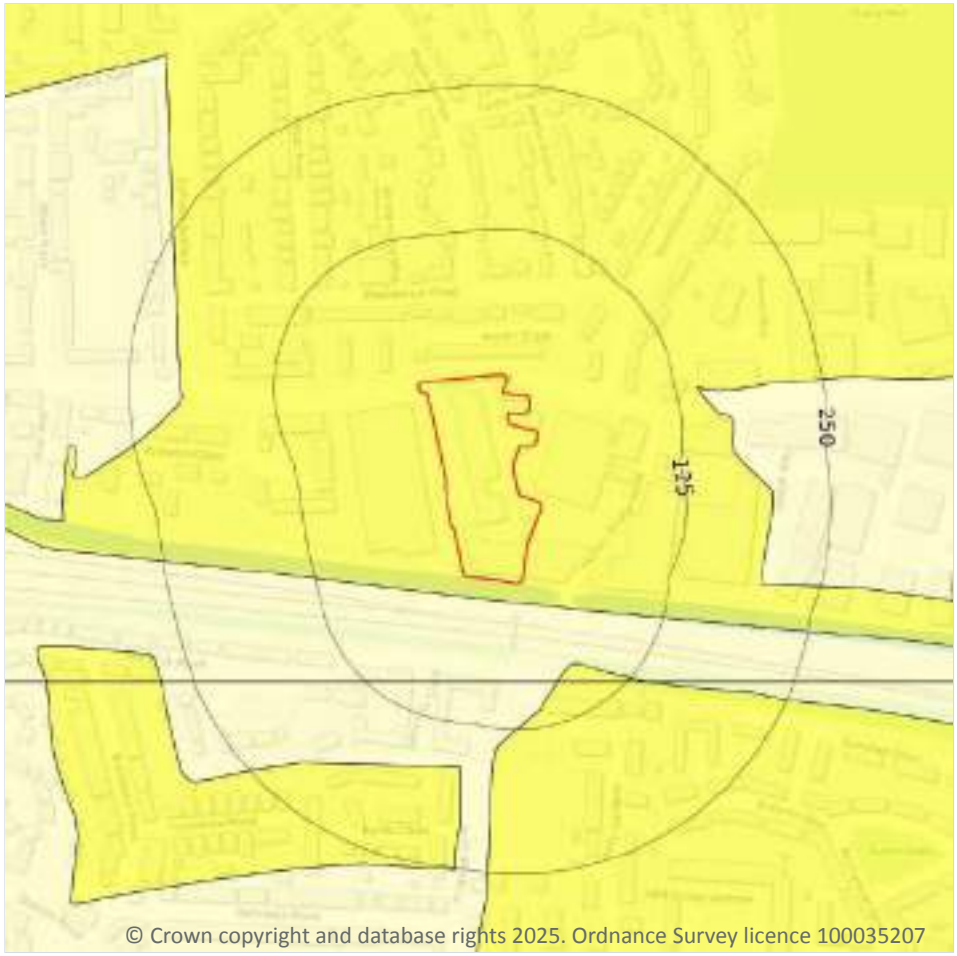
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 116 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
16m S	Very low	Ground conditions predominantly low plasticity.
36m SE	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	2

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.

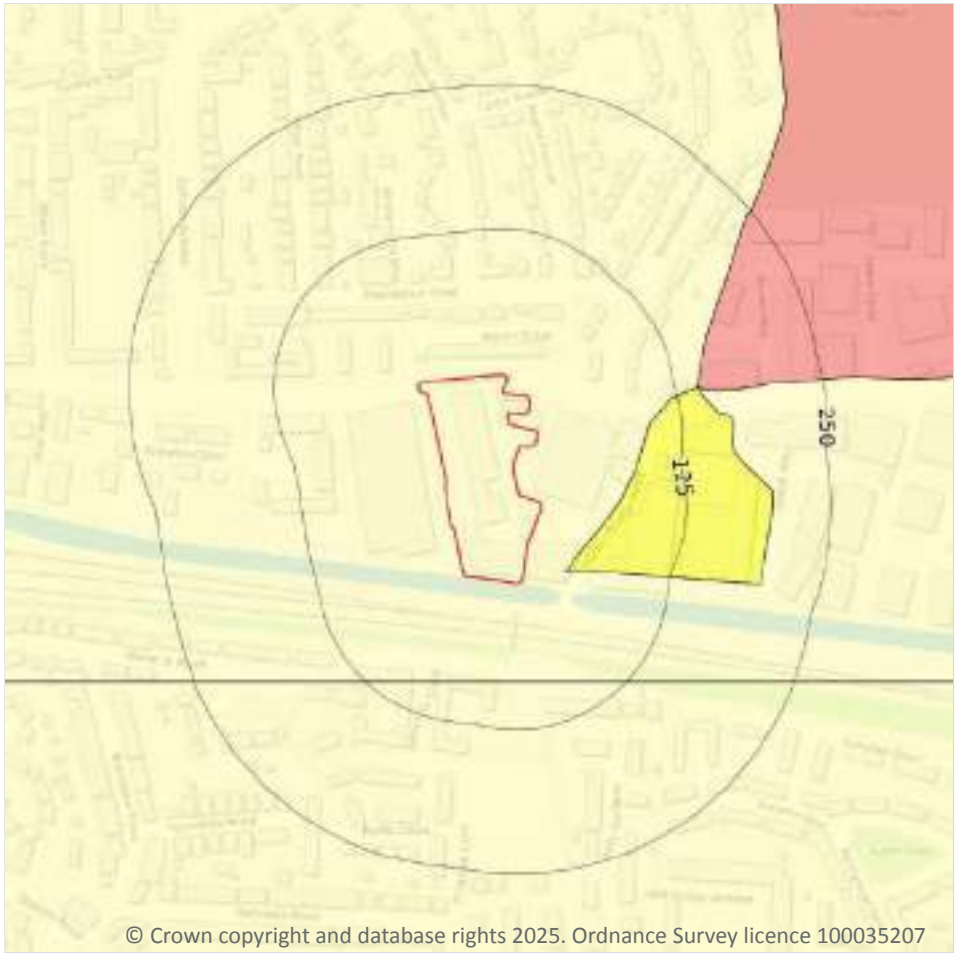
Features are displayed on the Natural ground subsidence - Running sands map on **page 118 >**

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.**

Location	Hazard rating	Details
16m S	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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	2

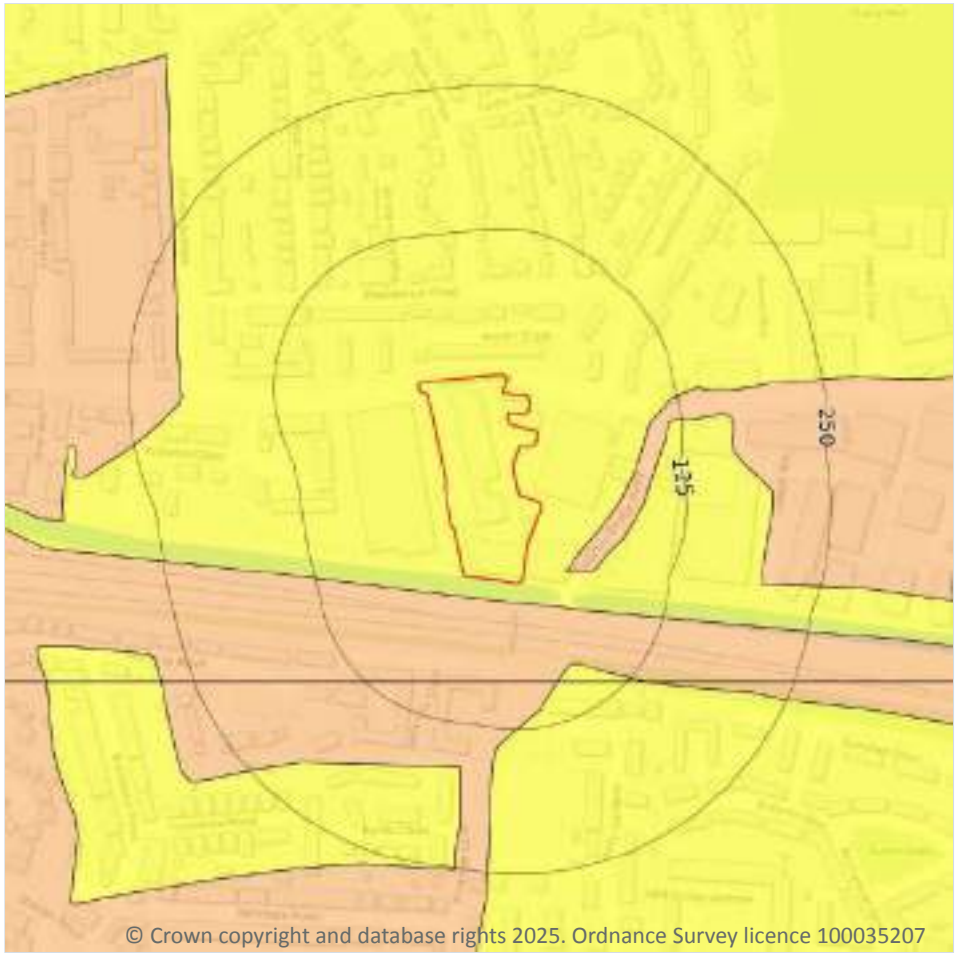
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 120 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
36m SE	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	3

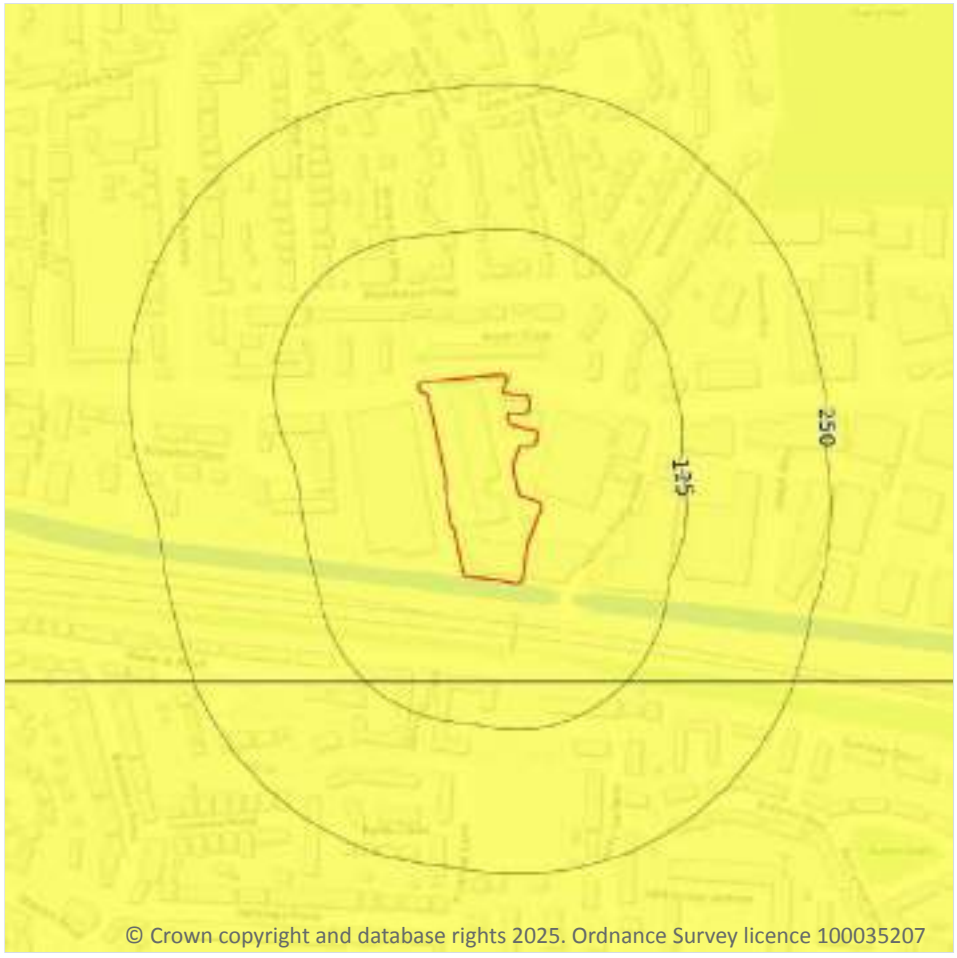
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 122 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
16m S	Low	Deposits with potential to collapse when loaded and saturated are possibly present in places.
36m SE	Low	Deposits with potential to collapse when loaded and saturated are possibly present in places.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 123 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

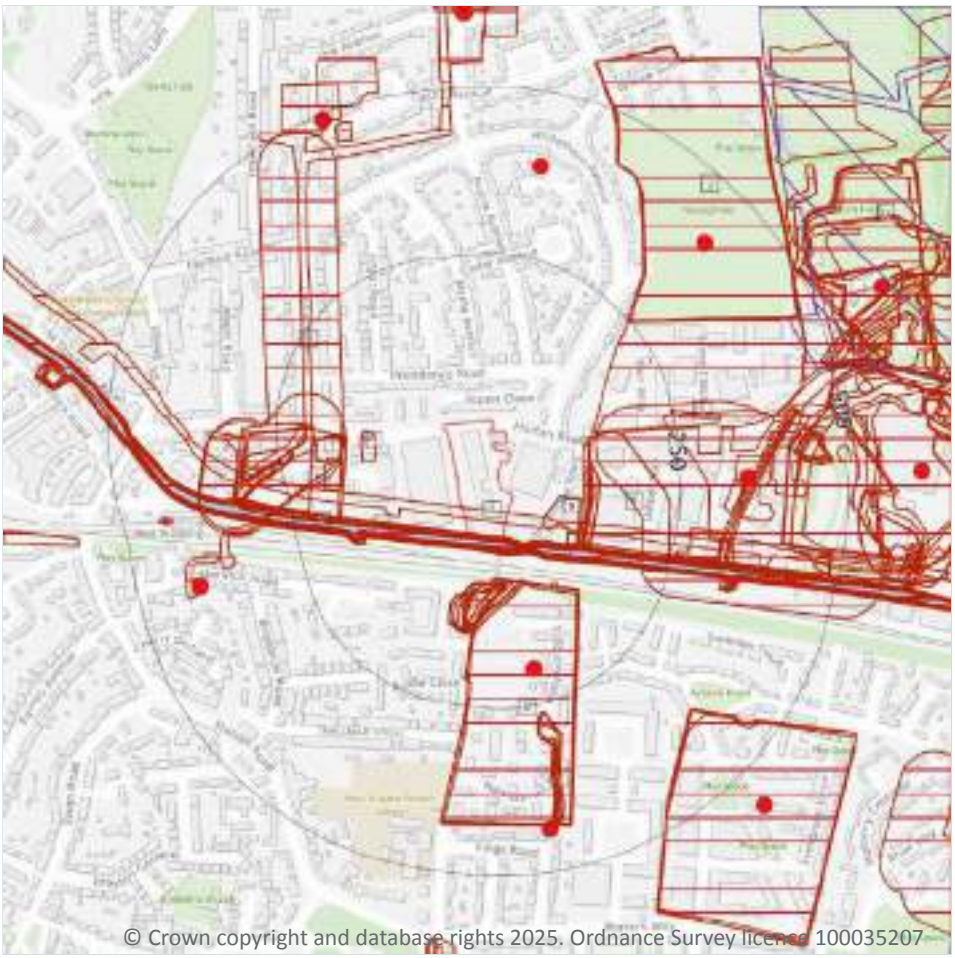
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 124 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	7

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 and ground workings map on **page 126 >**

ID	Location	Details	Description
5	196m S	Name: West Drayton Brickfield Address: WEST DRAYTON, Middlesex 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
G	352m E	Name: Yiewsley Brickfields Address: YIEWSLEY, Middlesex 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
8	387m N	Name: Yiewsley Brickfields Address: YIEWSLEY, Middlesex 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
M	407m W	Name: Rooks Farm Gravel Pit Address: WEST DRAYTON, Middlesex Commodity: Sand & Gravel 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
F	411m NE	Name: Yiewsley Brickfields Address: YIEWSLEY, Middlesex 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
12	436m S	Name: West Drayton Brick Field Address: WEST DRAYTON, Middlesex 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

ID	Location	Details	Description
O	492m NW	Name: Yiewsley Gravel Pit Address: YIEWSLEY, Middlesex Commodity: Sand & Gravel 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.

18.2 Surface ground workings

Records within 250m **58**

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

Features are displayed on the Mining and ground workings map on **page 126 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Canal**	**1881**	**1:10560**
A	**On site**	**Canal**	**1960**	**1:10560**
A	**On site**	**Canal**	**1932**	**1:10560**
A	**On site**	**Canal**	**1898**	**1:10560**
A	**On site**	**Canal**	**1938**	**1:10560**
A	**On site**	**Canal**	**1913**	**1:10560**
A	**On site**	**Canal**	**1894**	**1:10560**
A	**On site**	**Canal**	**1990**	**1:10000**
A	**On site**	**Canal**	**1975**	**1:10000**
A	**On site**	**Canal**	**1970**	**1:10560**
A	**On site**	**Canal**	**1913**	**1:10560**
A	**On site**	**Canal**	**1935**	**1:10560**
A	**On site**	**Canal**	**1894**	**1:10560**
2	**On site**	**Canal**	**1868**	**1:10560**
A	1m S	Canal	1938	1:10560
B	53m SE	Dock	1894	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
C	56m S	Pond	1913	1:10560
C	56m S	Pond	1894	1:10560
C	57m S	Pond	1932	1:10560
C	58m S	Unspecified Pit	1868	1:10560
C	58m S	Pond	1913	1:10560
C	58m S	Pond	1894	1:10560
C	61m S	Pond	1935	1:10560
C	62m S	Pond	1868	1:10560
C	63m S	Pond	1938	1:10560
C	64m S	Pond	1938	1:10560
D	65m S	Brick Field	1894	1:10560
D	68m S	Brick Field	1894	1:10560
D	71m S	Brick Field	1898	1:10560
C	88m S	Pond	1970	1:10560
3	101m W	Unspecified Pit	1881	1:10560
B	105m E	Dock	1932	1:10560
B	105m E	Dock	1898	1:10560
B	111m E	Pond	1938	1:10560
B	112m E	Pond	1938	1:10560
E	114m E	Unspecified Dock	1913	1:10560
E	114m E	Unspecified Dock	1894	1:10560
F	126m E	Brick Field	1898	1:10560
G	126m E	Brick Field	1868	1:10560
H	145m W	Dock	1938	1:10560
H	145m W	Dock	1938	1:10560
H	147m W	Dock	1932	1:10560
H	150m W	Unspecified Dock	1935	1:10560
4	151m NW	Dock	1898	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
I	155m W	Unspecified Heap	1990	1:10000
I	155m W	Unspecified Heap	1975	1:10000
I	155m W	Unspecified Heap	1970	1:10560
I	160m W	Unspecified Pit	1868	1:10560
G	171m E	Unspecified Dock	1894	1:10560
H	195m W	Dock	1913	1:10560
H	195m W	Unspecified Dock	1913	1:10560
H	227m W	Unspecified Heap	1990	1:10000
H	227m W	Unspecified Heap	1975	1:10000
H	227m W	Unspecified Heap	1970	1:10560
G	233m E	Brick Field	1881	1:10560
J	247m NE	Brick Field	1894	1:10560
6	248m E	Refuse Heap	1935	1:10560
J	249m NE	Brick Field	1894	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1

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.

Features are displayed on the Mining and ground workings map on **page 126 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
Q	456m NE	Iron Bridge Road Gravel Pit	Sand and gravel	Surface mineral working	Valid	1957, 1956

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	3

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

Location	Mineral type
On site	**Stone**
82m SE	Stone
212m SW	Stone

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

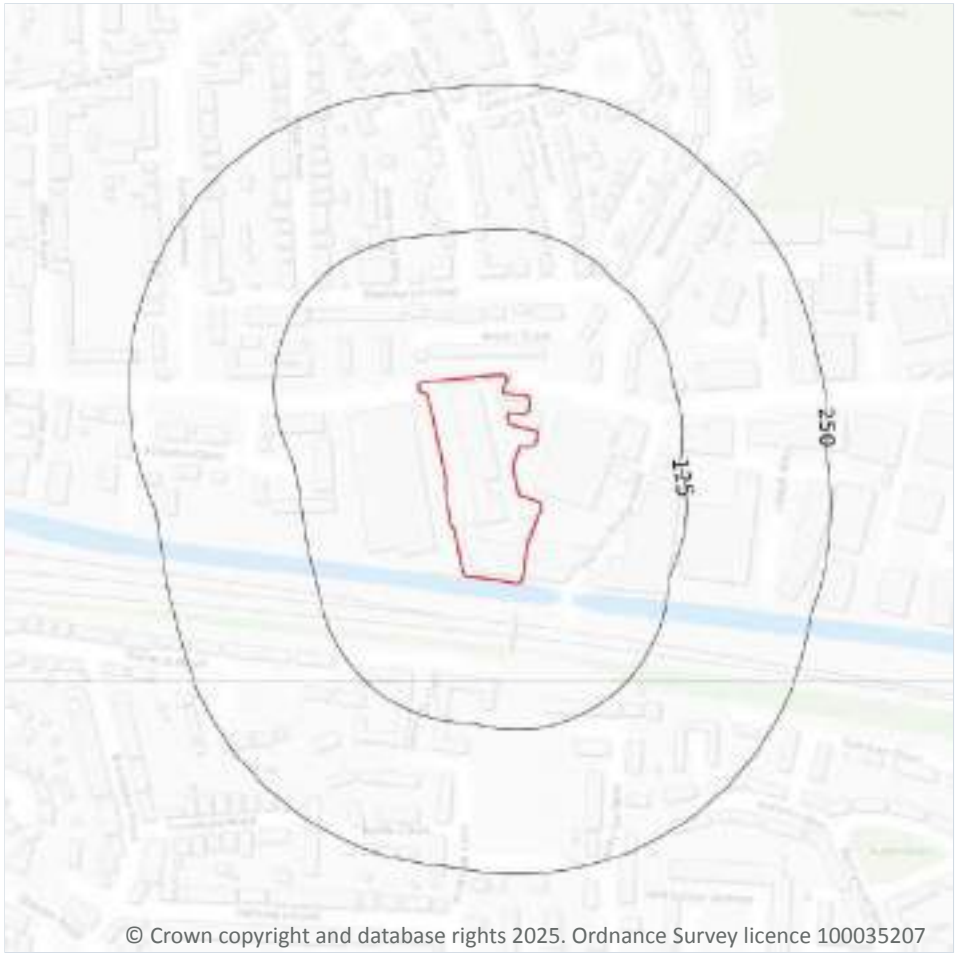
Records within 500m	0

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

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

This data is sourced from Groundsure.

20 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%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 136 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **4**

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 km^2. 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 km^2; 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	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**
16m S	No data	No data	No data	No data	No data	No data	No data
18m NW	No data	No data	No data	No data	No data	No data	No data
36m SE	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **11**

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 km^2).

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	**14**	**2.5**	**173**	**119**	**1**	**67**	**57**	**23**	**29**
On site	**14**	**2.5**	**179**	**123**	**1.3**	**75**	**64**	**26**	**25**
On site	**15**	**2.6**	**199**	**137**	**0.9**	**66**	**60**	**24**	**33**
On site	**15**	**2.6**	**181**	**124**	**1.4**	**78**	**66**	**27**	**24**
On site	**16**	**2.8**	**218**	**150**	**1.1**	**72**	**67**	**27**	**34**

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	**16**	**2.8**	**236**	**162**	**1.1**	**75**	**74**	**29**	**37**
18m NW	19	3.3	350	240	0.9	74	88	33	64
35m W	18	3.2	301	207	0.9	71	76	30	50
35m N	18	3.2	280	192	1.1	78	82	32	41
37m N	15	2.6	199	137	1.3	78	67	28	25
47m NW	20	3.5	386	265	0.9	77	95	36	64

This data is sourced from the British Geological Survey.

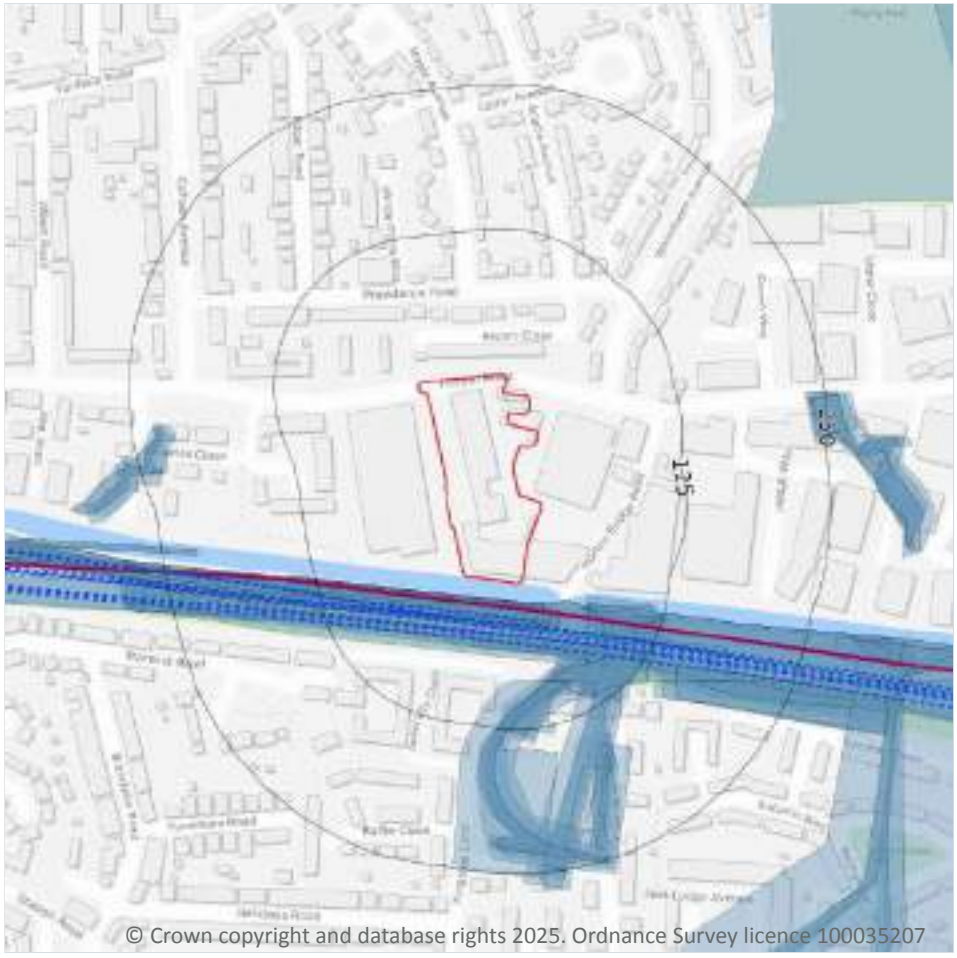
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline
Search buffers in metres (m)
Crossrail 2 Stations
Crossrail 2 Route
Crossrail 2 Worksites
Crossrail 2 Safeguarding
Crossrail 2 Headhouses
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

22.1 Underground railways (London)

Records within 250m	1

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

Features are displayed on the Railway infrastructure and projects map on **page 140 >**

Location	Line Name	Line Section	Track Type	Depth (m bgl)	Operational hours
21m S	Elizabeth Line	Elizabeth Line	Surface Track	0	Mon-Thu: Early 0500 Late 0111, Fri: Early 0523 then a 24h service until Sun, Sun: Late 0001

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	59

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 140 >**

Location	Land Use	Year of mapping	Mapping scale
15m S	Railways	0	-
15m S	Railways	1895	-
15m S	Railways	1914	-
15m S	Railways	1936	-
16m S	Railway Sidings	1913	10560
16m S	Railway Sidings	1894	10560
17m S	Railway Sidings	1932	10560
19m S	Railway Sidings	1938	10560
20m S	Railway Sidings	1938	10560
20m S	Railway Sidings	1960	10560
21m S	Railway Sidings	1935	10560
21m S	Railway Sidings	1913	10560

Location	Land Use	Year of mapping	Mapping scale
21m S	Railway Sidings	1894	10560
23m S	Railway Sidings	1898	10560
23m S	Railway Sidings	1965	1250
23m S	Railway Sidings	1966	2500
24m S	Railway Sidings	1914	2500
24m S	Railway Sidings	1935	2500
24m S	Railway Sidings	1895	2500
27m S	Railway Sidings	1978	1250
28m S	Railway Sidings	1979	1250
28m S	Railway Sidings	1989	1250
44m S	Railway Sidings	1938	10560
48m S	Railway Sidings	1935	10560
52m S	Railway Sidings	1914	2500
52m S	Railway Sidings	1935	2500
53m S	Railway Sidings	1895	2500
56m SE	Railway Sidings	1898	10560
57m SE	Railway Sidings	1913	10560
57m SE	Railway Sidings	1960	10560
60m SE	Railway Sidings	1913	10560
60m SE	Railway Sidings	1894	10560
62m SE	Railway Sidings	1894	10560
62m SE	Railway Sidings	1932	10560
69m SE	Railway Sidings	1895	2500
74m SE	Railway Sidings	1914	2500
84m SE	Railway Sidings	1938	10560
84m S	Railway Sidings	1960	10560
87m S	Railway Sidings	1964	10560
106m SE	Railway Sidings	1938	10560

Location	Land Use	Year of mapping	Mapping scale
143m SE	Railway Sidings	1960	10560
150m SE	Railway Sidings	1935	2500
152m SE	Railway Sidings	1938	10560
166m SE	Railway Sidings	1964	10560
169m SE	Railway Sidings	1964	10560
213m W	Railway Sidings	1938	10560
214m W	Railway Sidings	1938	10560
219m W	Railway Sidings	1881	10560
219m W	Railway Sidings	1881	10560
222m S	Railway Sidings	1967	2500
223m W	Railway Sidings	1935	10560
226m W	Railway Sidings	1935	2500
226m SW	Railway Sidings	1898	10560
233m E	Railway Sidings	1938	10560
235m E	Tramway Sidings	1935	2500
236m E	Railway Sidings	1935	10560
238m E	Railway Sidings	1938	10560
246m S	Railway Sidings	1895	2500
248m NE	Railway Sidings	1895	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	19

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 140 >**

Location	Name	Type
30m S		rail
34m S	Not given	Multi Track
35m S	Not given	Multi Track
36m S	Elizabeth line	rail
36m S	Up & Down Goods	rail
39m S	Elizabeth line	rail
41m S	Not given	Multi Track
41m S	Not given	Single Track
44m S	Great Western Main Line	rail
45m S	Not given	Multi Track
45m S	Not given	Multi Track
51m S	Great Western Main Line	rail
86m SE	Not given	Multi Track
91m SE	Not given	Multi Track
98m SW	Up & Down Goods	rail
115m SE	Great Western Main Line	rail
153m SW	Not given	Single Track
157m SW	Not given	Multi Track

Location	Name	Type
187m SW	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 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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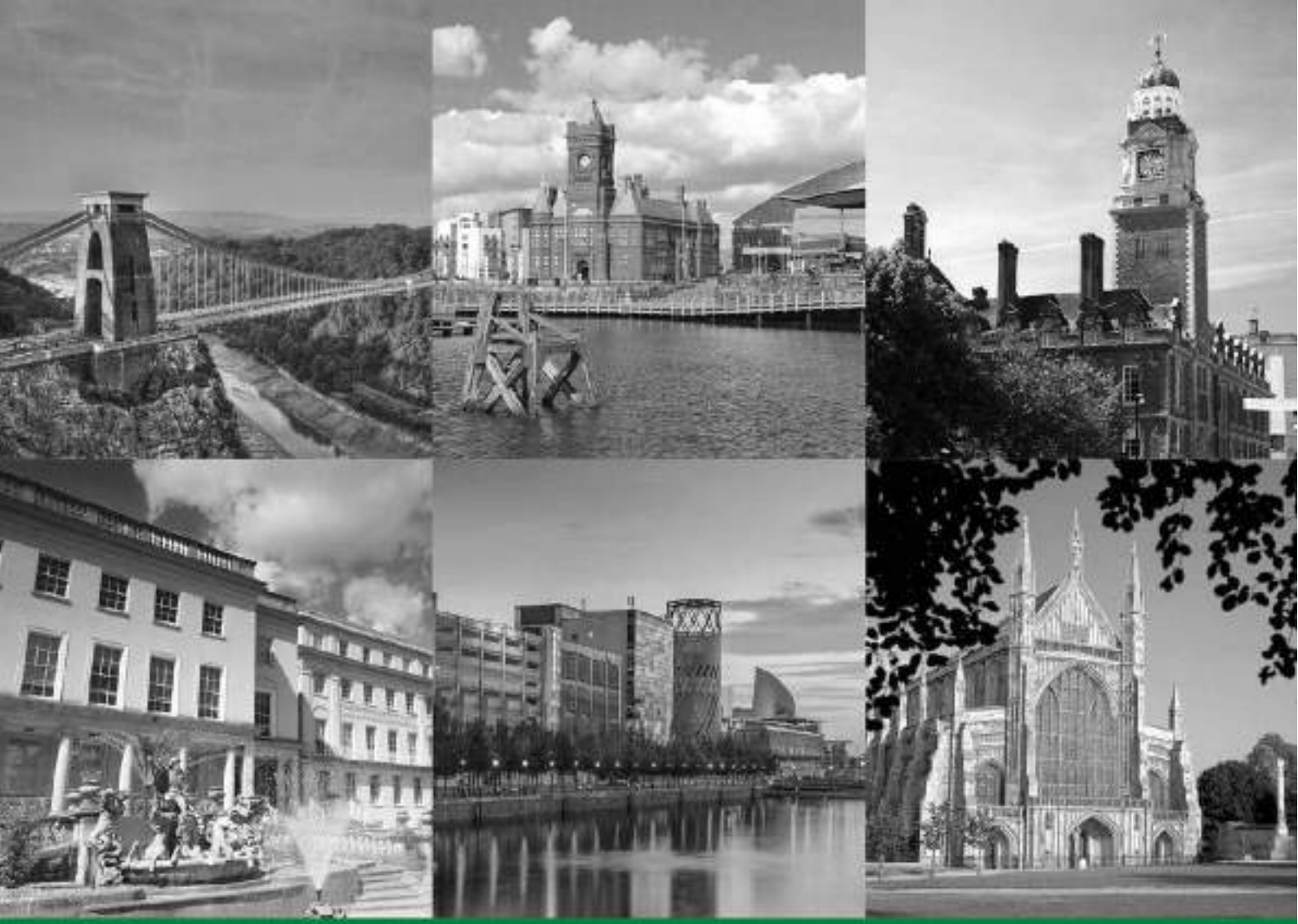

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