ID	Location	Category	Description
9	194m S	ROCK	Coal seam, inferred
12	346m N	ROCK	Coal seam, inferred
13	364m SW	ROCK	Coal seam, inferred
16	486m NW	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	6

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.

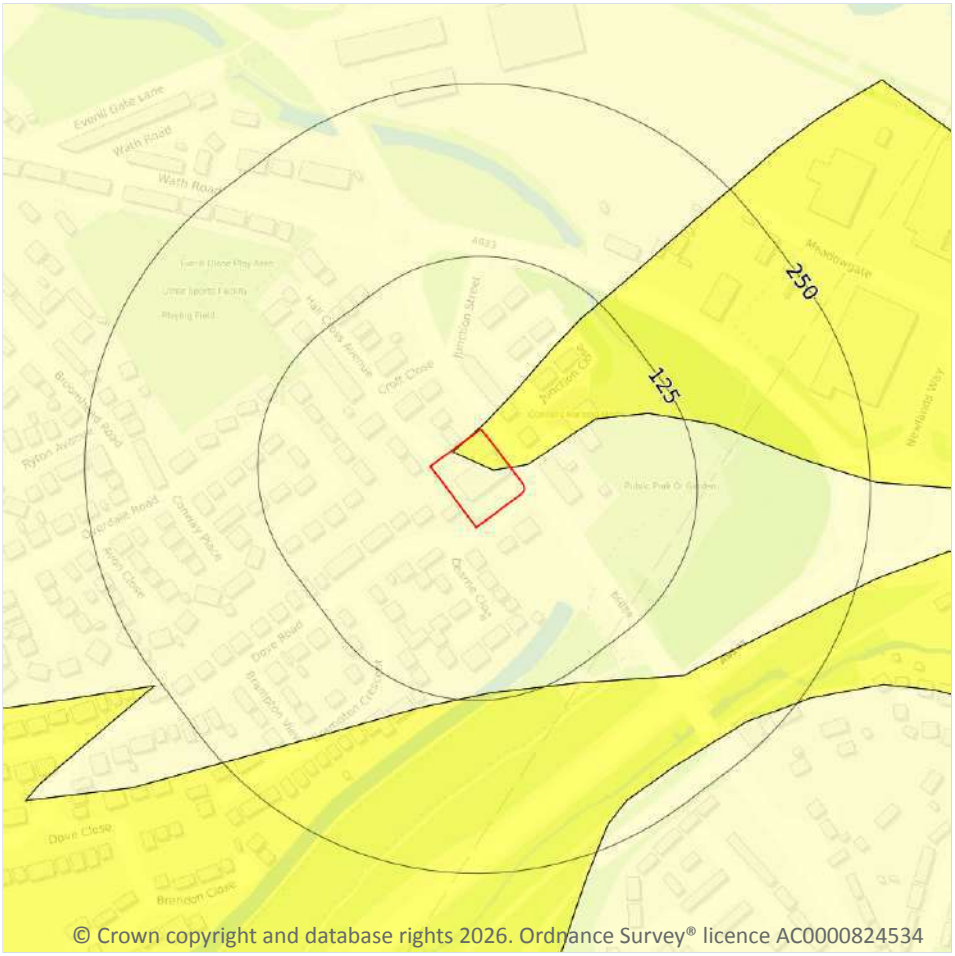
Features are displayed on the Boreholes map on **page 99 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	206m SE	441132 402098	UPPER KNOLL BECK BRIDGE BRAMPTON B	15.85	N	106214 ↗
A	206m SE	441143 402107	UPPER KNOLL BECK BRIDGE BRAMPTON 3	16.65	N	106211 ↗
1	213m SE	441116 402078	UPPER KNOLL BECK BRIDGE BRAMPTON 4	13.9	N	106212 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
B	236m SE	441152 402076	UPPER KNOLL BECK BRIDGE BRAMPTON A	12.0	N	106213 ↗
2	244m E	441247 402312	PILLAR SECTION SILKSTONE SEAM X20'S MAINGATE	-	Y	N/A
B	245m SE	441169 402078	UPPER KNOLL BECK BRIDGE BRAMPTON 2	4.35	N	106210 ↗

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	2

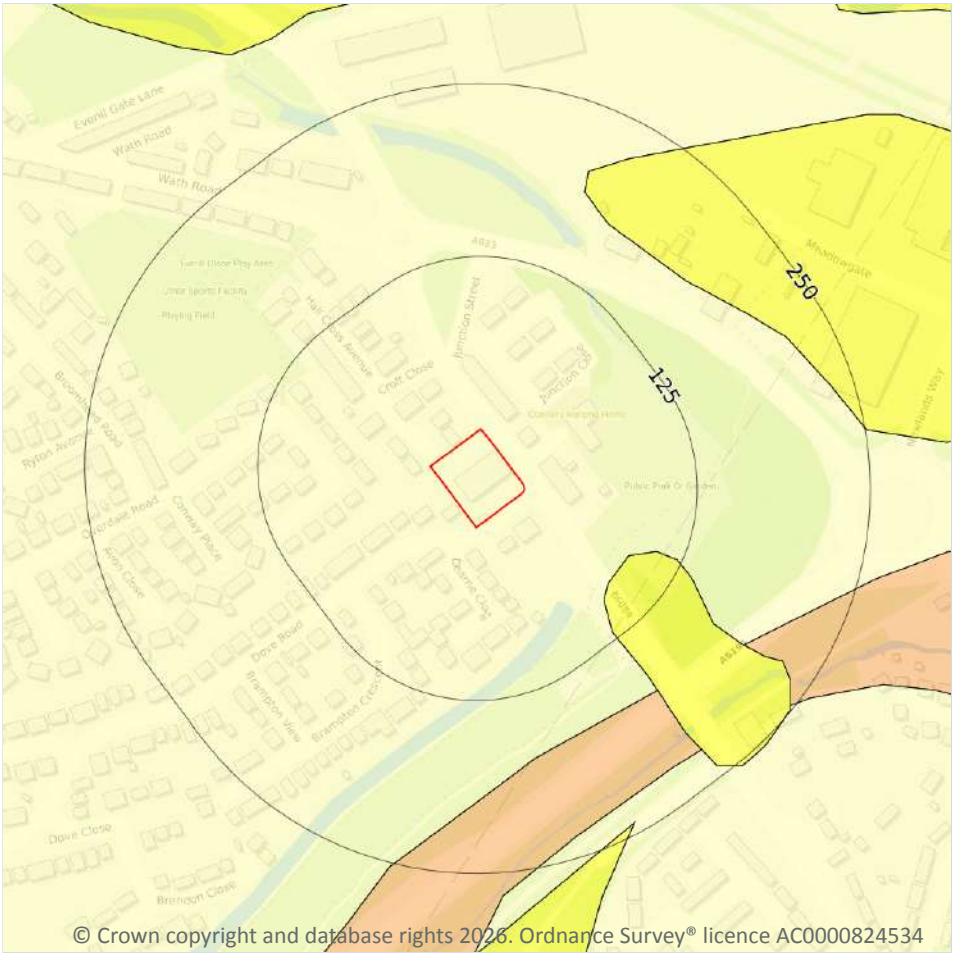
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 101 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**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	1

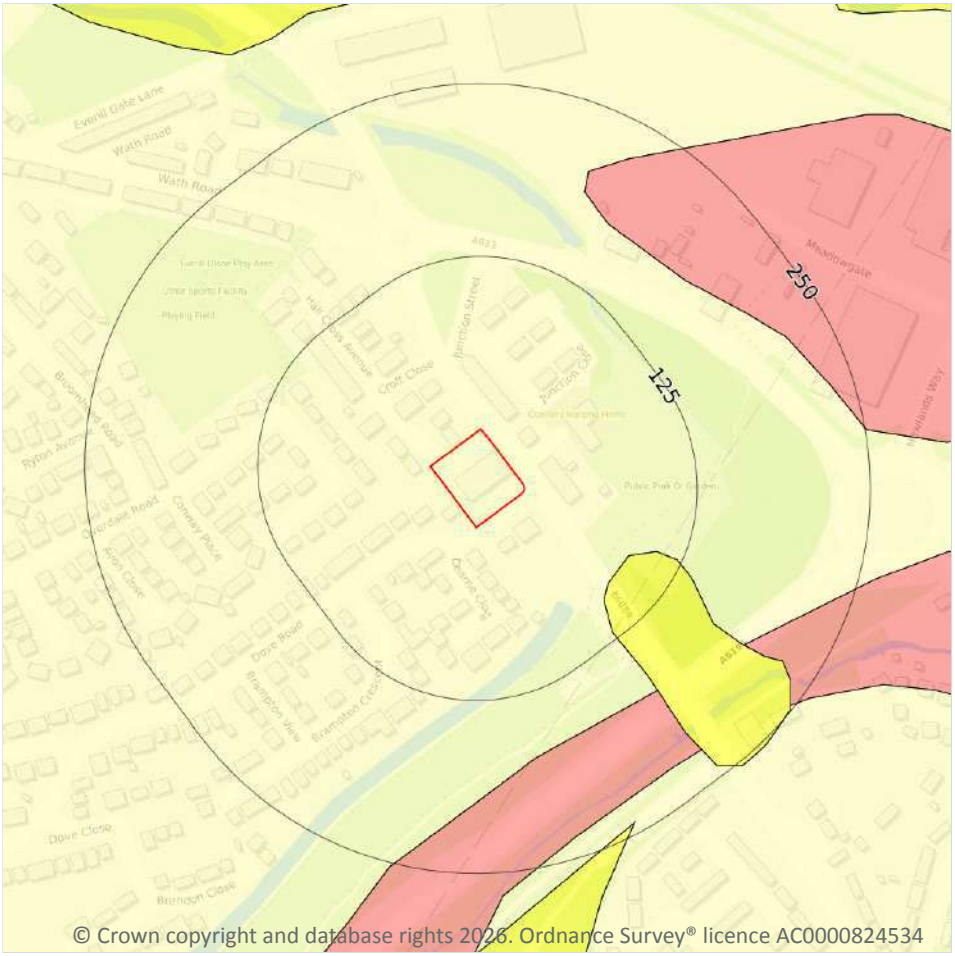
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 102 >**

Location	Hazard rating	Details
On site	**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	1

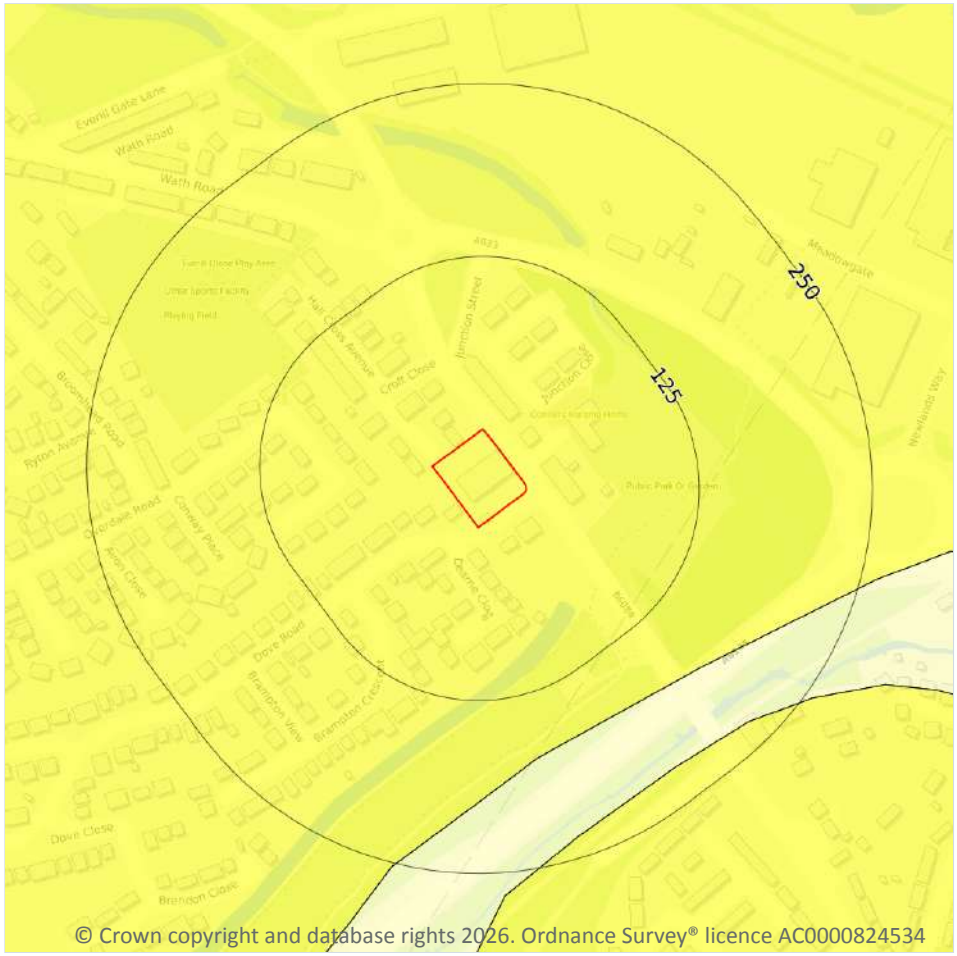
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 103 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

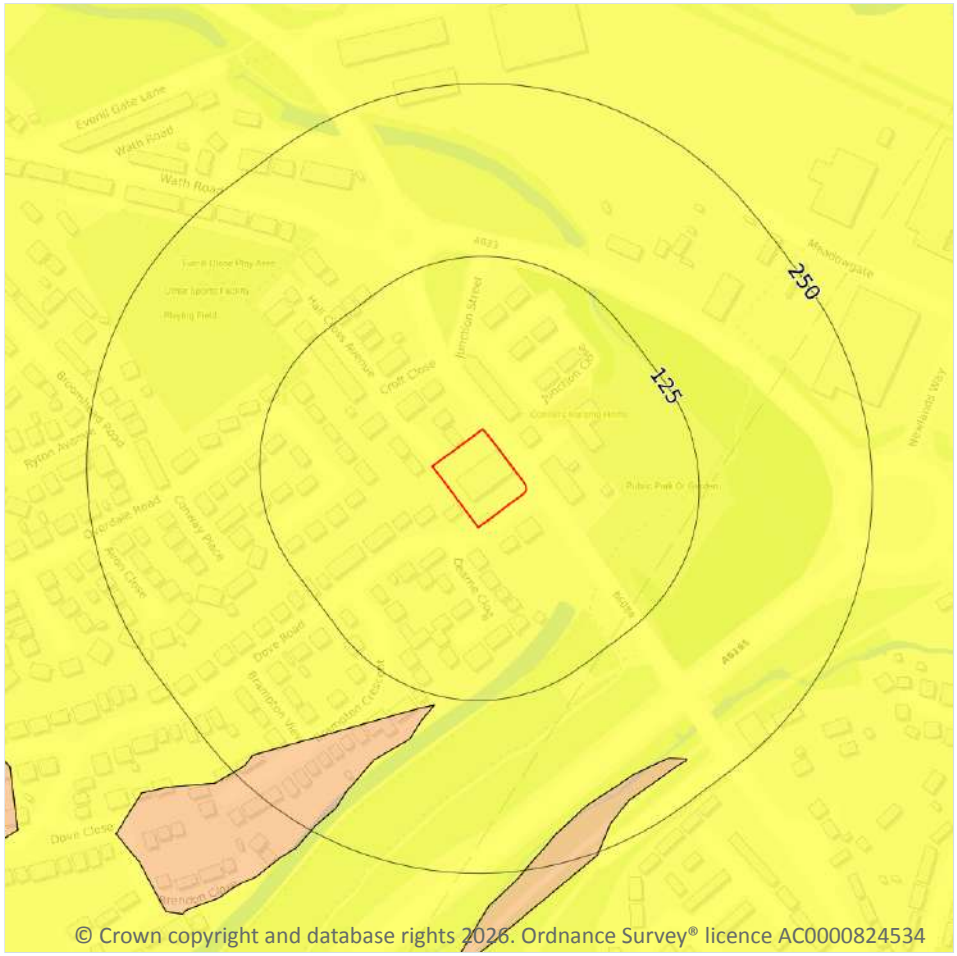
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

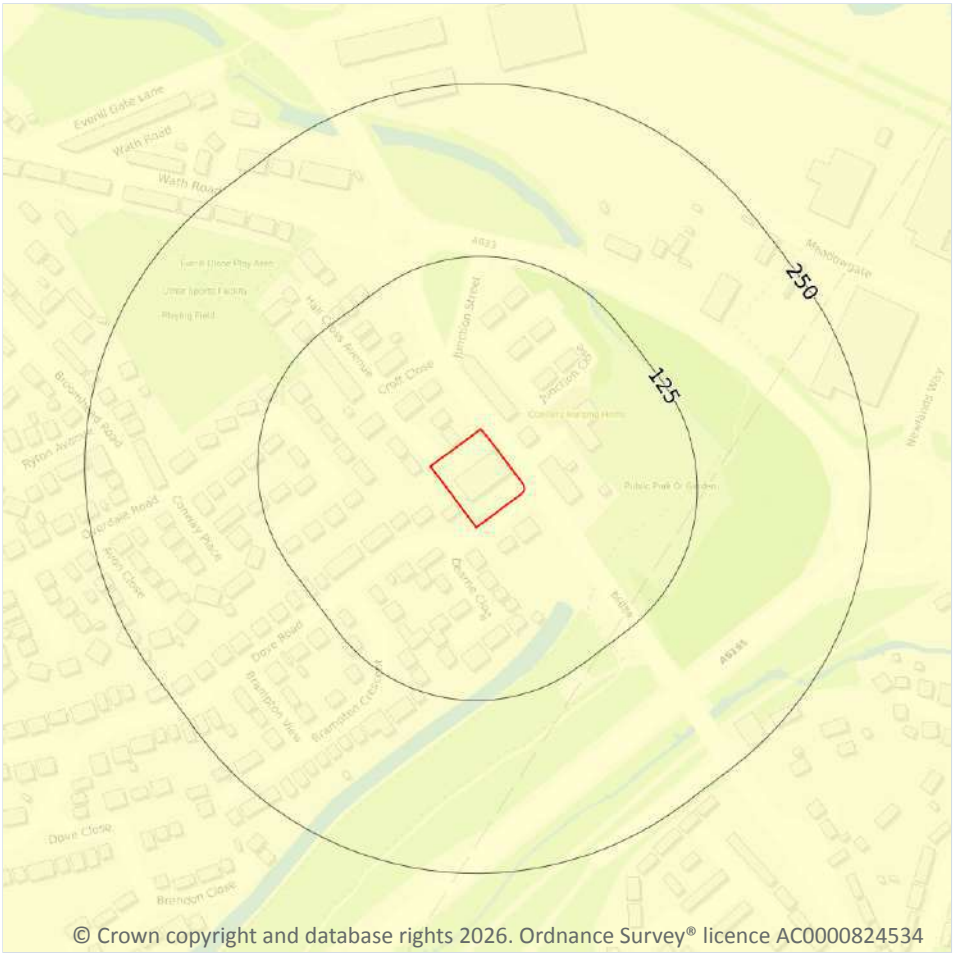
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 105 >**

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

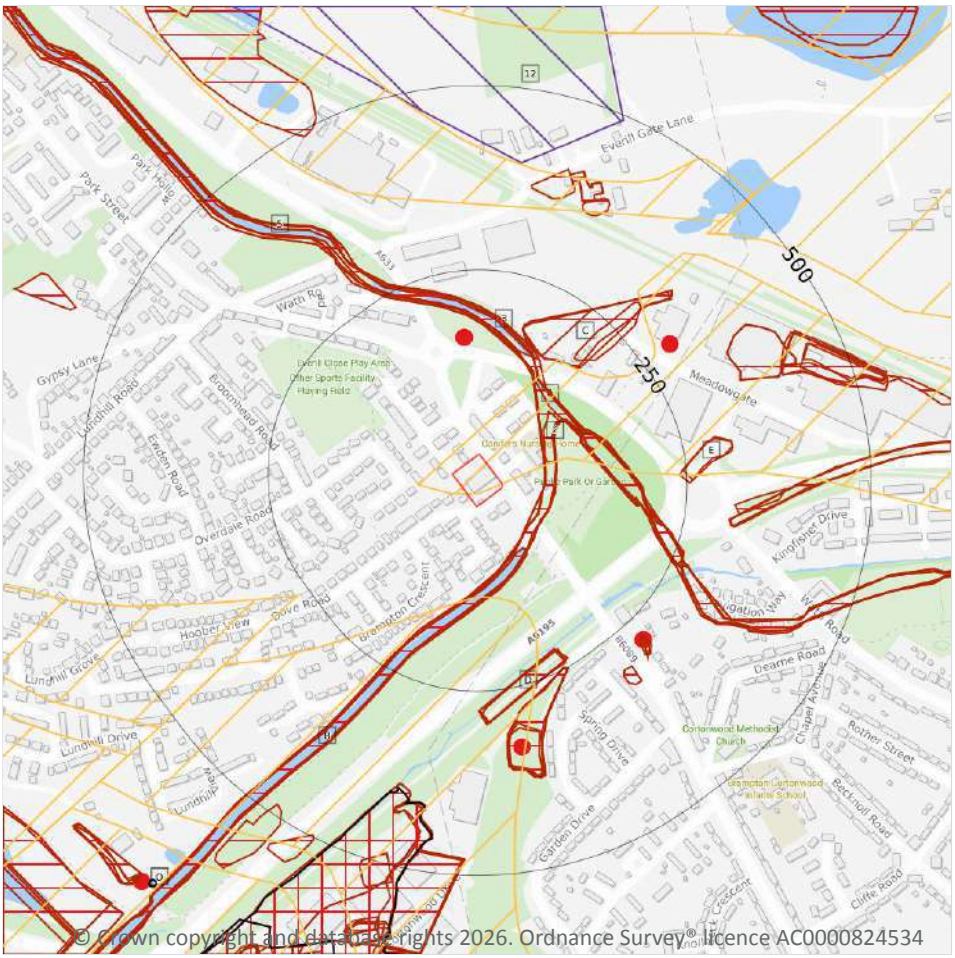
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 106 >**

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	4

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 108 >**

ID	Location	Details	Description
6	160m N	Name: Canal Gravel Pit Address: Wombwell, WORSBOROUGH, South Yorkshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
G	281m SE	Name: Knoll Beck Lane Address: Knoll Beck Lane, Concrete Cottages, Brampton, WATH-UPON-DEARNE, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
8	296m NE	Name: Wombwell Junction Clay Pit Address: Wombwell, WORSBOROUGH, South Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
F	332m S	Name: Cliffe Field Address: Concrete Cottages, Brampton, WATH-UPON-DEARNE, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	23

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

Features are displayed on the Mining and ground workings map on **page 108 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	52m SE	Disused Canal	1967	1:10560
A	52m SE	Disused Canal	1951	1:10560
A	54m E	Disused Canal	1948	1:10560
A	54m E	Canal	1901	1:10560
A	55m E	Canal	1938	1:10560
2	68m NE	Unspecified Pit	1977	1:10000
B	82m SE	Disused Canal	1988	1:10000
B	82m SE	Disused Canal	1977	1:10000
3	115m NE	Disused Canal	1977	1:10000
5	150m NE	Disused Canal	1988	1:10000
C	156m NE	Clay Pit	1948	1:10560
C	157m NE	Unspecified Pit	1951	1:10560
C	157m NE	Clay Pit	1938	1:10560
C	183m NE	Clay Pit	1951	1:10560
D	220m SE	Cuttings	1938	1:10560
D	220m SE	Cuttings	1948	1:10560
D	220m SE	Cuttings	1901	1:10560
D	222m SE	Cuttings	1951	1:10560
E	241m E	Unspecified Heap	1948	1:10560
E	247m E	Unspecified Heap	1951	1:10560
F	248m SE	Unspecified Ground Workings	1948	1:10560
F	248m SE	Unspecified Ground Workings	1938	1:10560
F	248m SE	Unspecified Ground Workings	1938	1:10560

This is data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m	7

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

Features are displayed on the Mining and ground workings map on **page 108 >**

ID	Location	Land Use	Year of mapping	Mapping scale
11	396m S	Colliery	1948	1:10560
19	620m S	Colliery	1901	1:10560
O	669m SW	Unspecified Shaft	1988	1:10000
O	669m SW	Unspecified Shaft	1977	1:10000
-	712m S	Unspecified Mine	1967	1:10560
-	735m SW	Colliery	1951	1:10560
-	990m SW	Disused Colliery	1901	1:10560

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 108 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
12	399m N	Park Hill Brickworks	Shale, bricks	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**10**

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

Features are displayed on the Mining and ground workings map on **page 108 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Iron Ore (Bedded)**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
4	122m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
7	267m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	338m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
17	581m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

ID	Location	Name	Commodity	Class	Likelihood
18	581m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	716m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	934m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	940m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	963m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

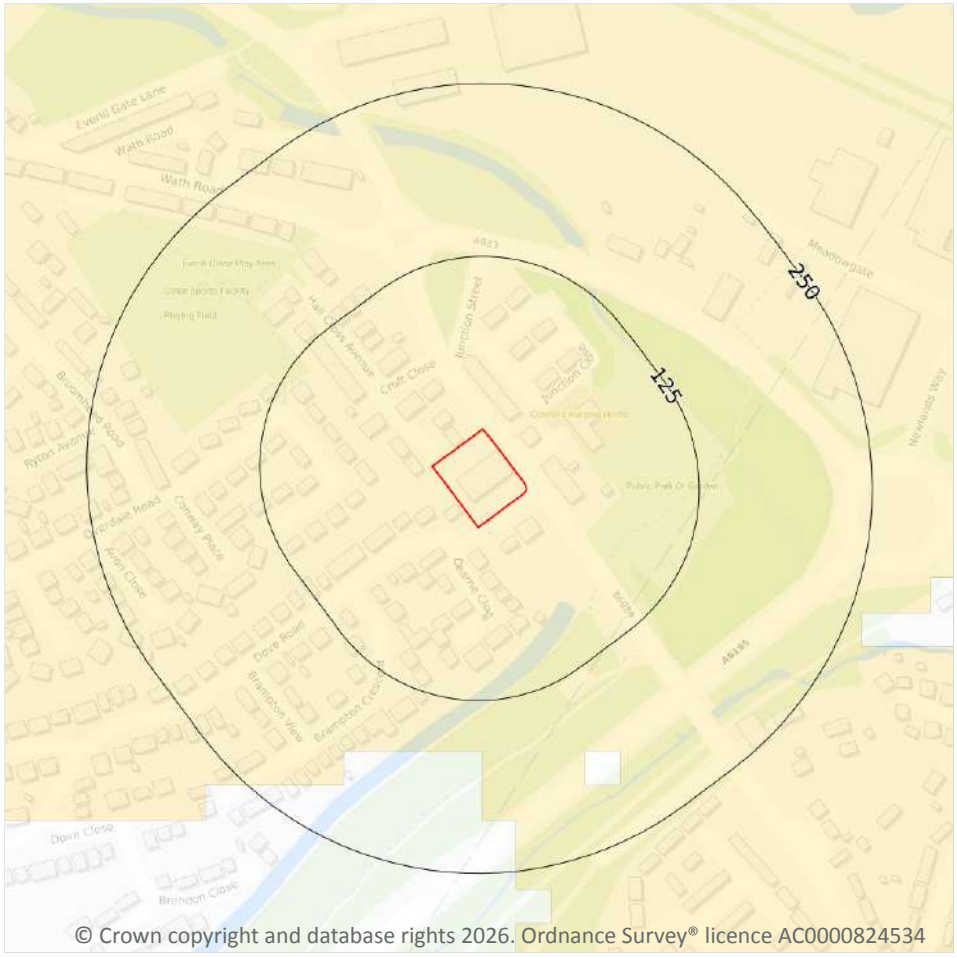
Records within 500m	0

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

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

This data is sourced from Groundsure.

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 118 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**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 **7**

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	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
20m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

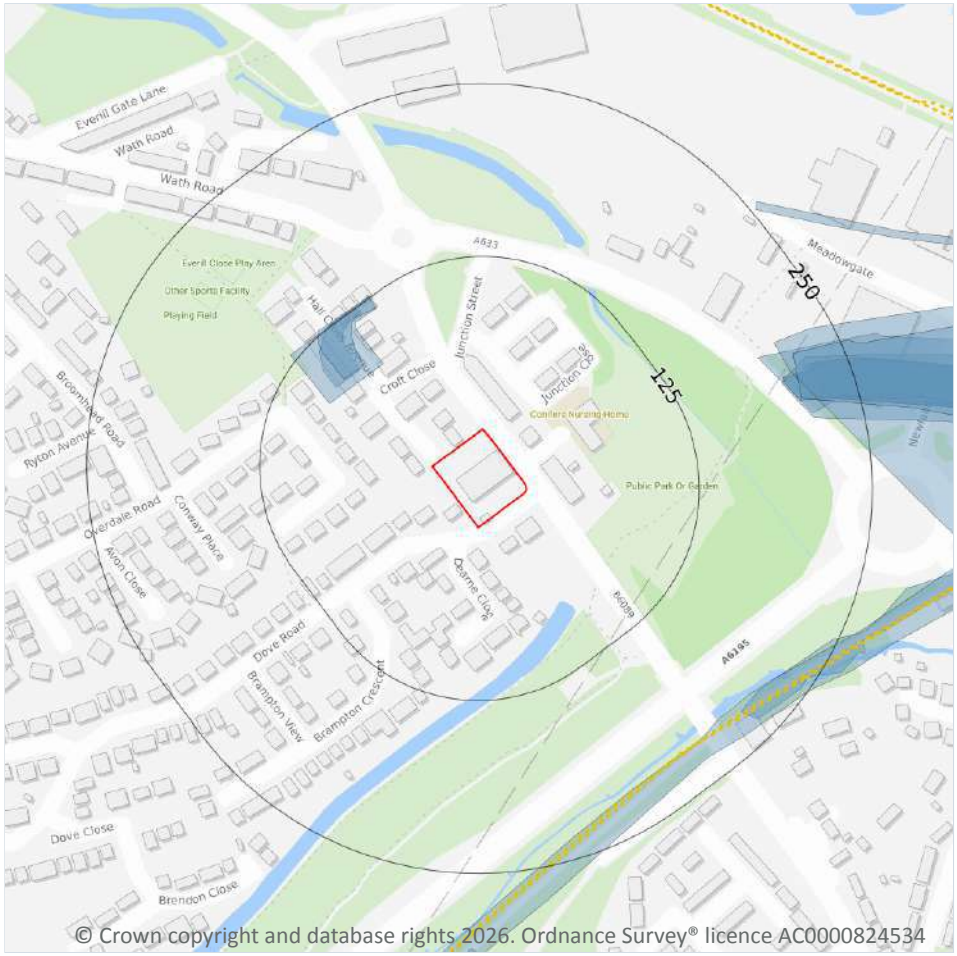
21.3 BGS Measured Urban Soil Chemistry

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



22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m	11

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 122 >**

Location	Land Use	Year of mapping	Mapping scale
81m NW	Railway Sidings	1948	10560
87m NW	Tramway Sidings	1930	2500
88m NW	Railway Sidings	1938	10560
191m NE	Railway Sidings	1951	10560
199m E	Railway Sidings	1967	10560
202m E	Railway Sidings	1969	2500
202m E	Railway Sidings	1962	2500
207m NE	Mineral Railway Sidings	1977	10000
209m E	Railway Sidings	1948	10560
211m NE	Railway Sidings	1985	2500
224m E	Railway Sidings	1982	1250

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	4

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

Features are displayed on the Railway infrastructure and projects map on **page 122 >**

Location	Description
218m SE	Historical OSM
220m SE	Abandoned
239m SE	Historical OSM
243m SE	Historical OSM

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 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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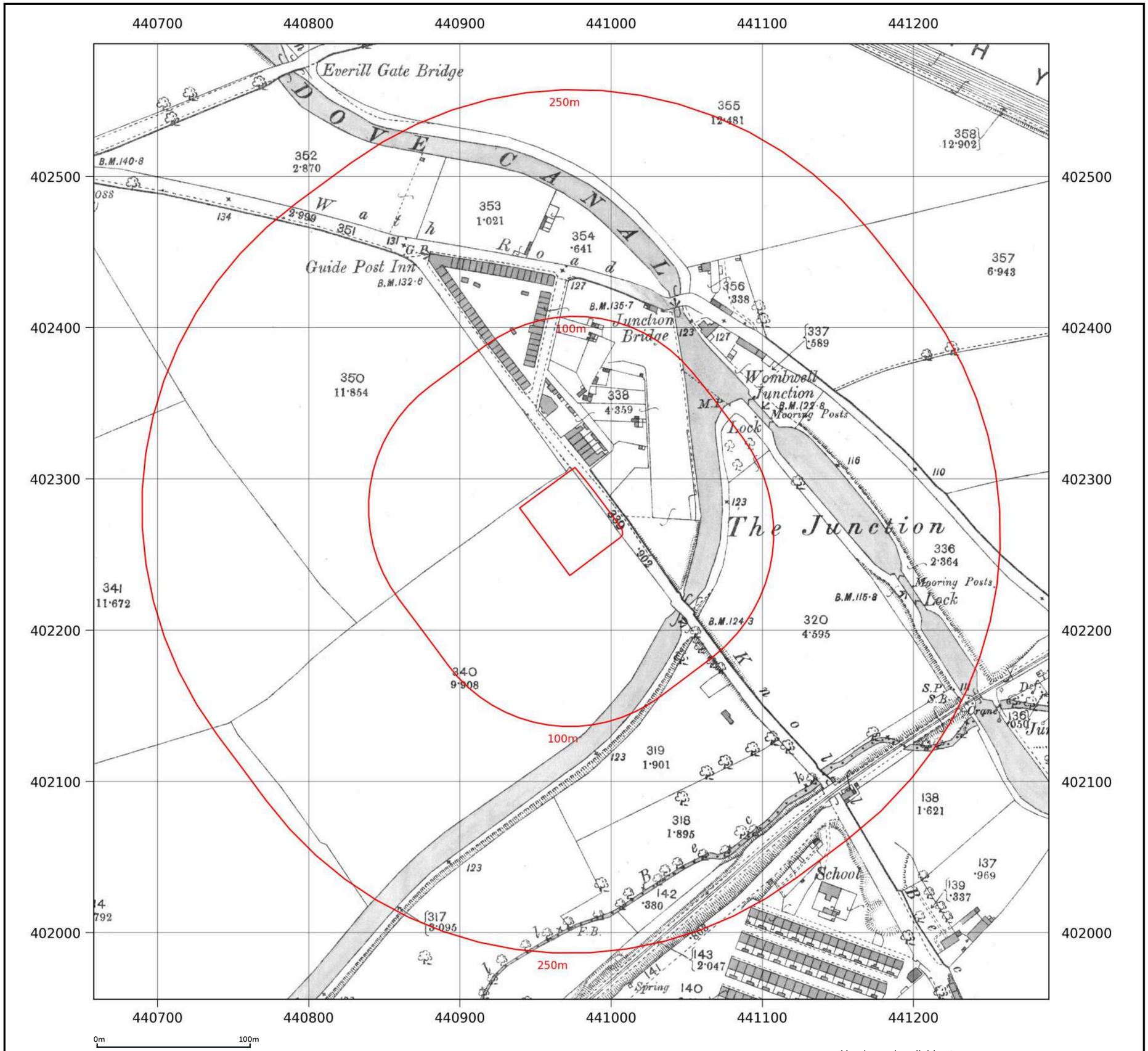

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1892
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1892
Surveyed: 1892
Revised: 1892

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info@groundsure.com
01273 257 755

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LOCATION INTELLIGENCE

Ordnance Survey
Licensed Data

Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1903
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1903
Surveyed: 1903
Revised: 1903

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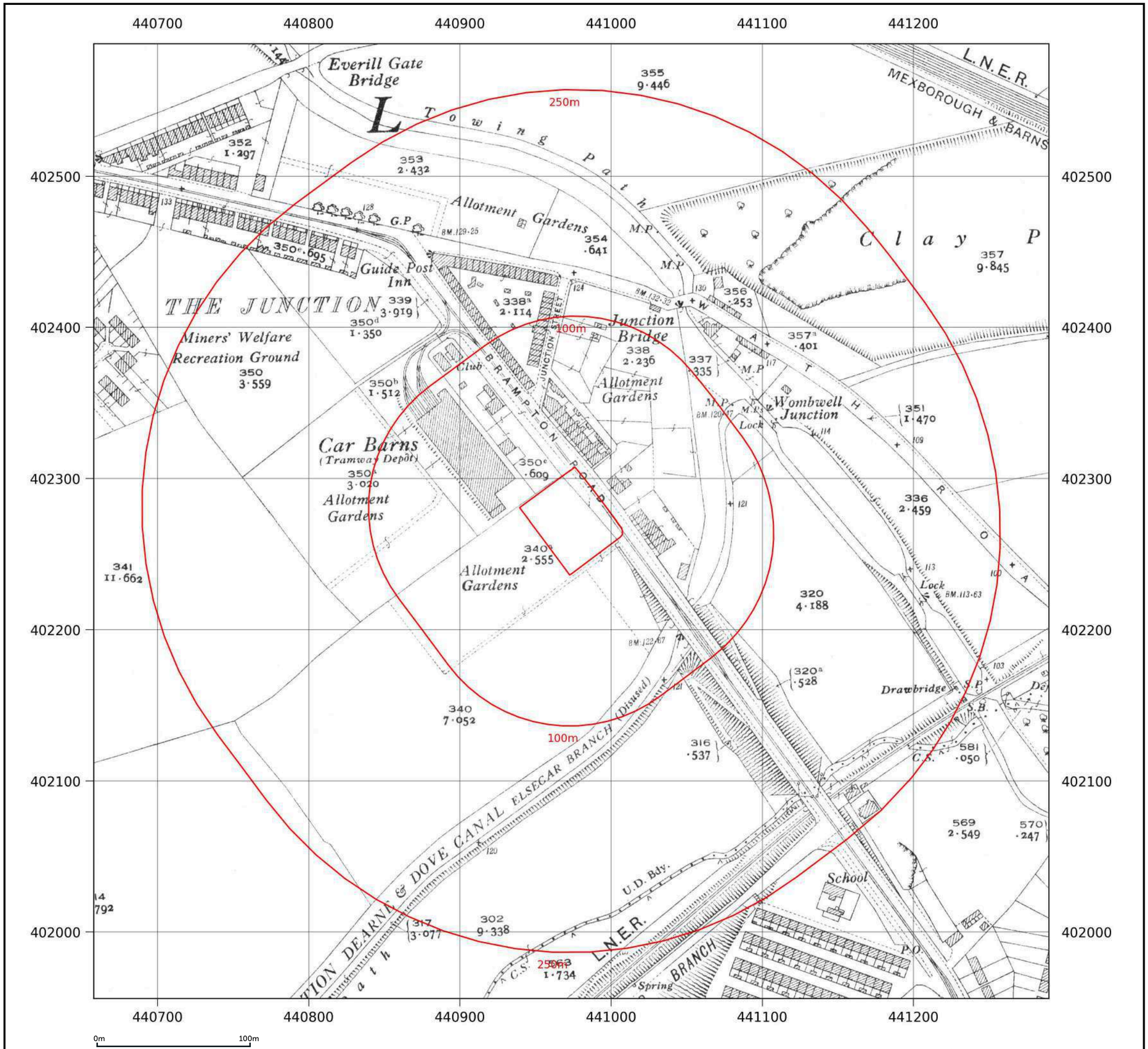

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1930
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1930
Surveyed: 1930
Revised: 1930

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1957-1962
Scale:	1:2,500
Printed at:	1:2,500

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Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1962
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1962
Surveyed: 1961
Revised: 1961
Copyright: 1962
Levelled: 1959

Date: 1962
Surveyed: 1961
Revised: 1961
Edition: 1962
Copyright: 1962
Levelled: 1959

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1968-1969
Scale:	1:2,500
Printed at:	1:2,500

N
W E
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Date: 1969
Surveyed: 1968
Revised: 1968
Copyright: 1969
Levelled: 1964

Date: 1968	Date: 1968

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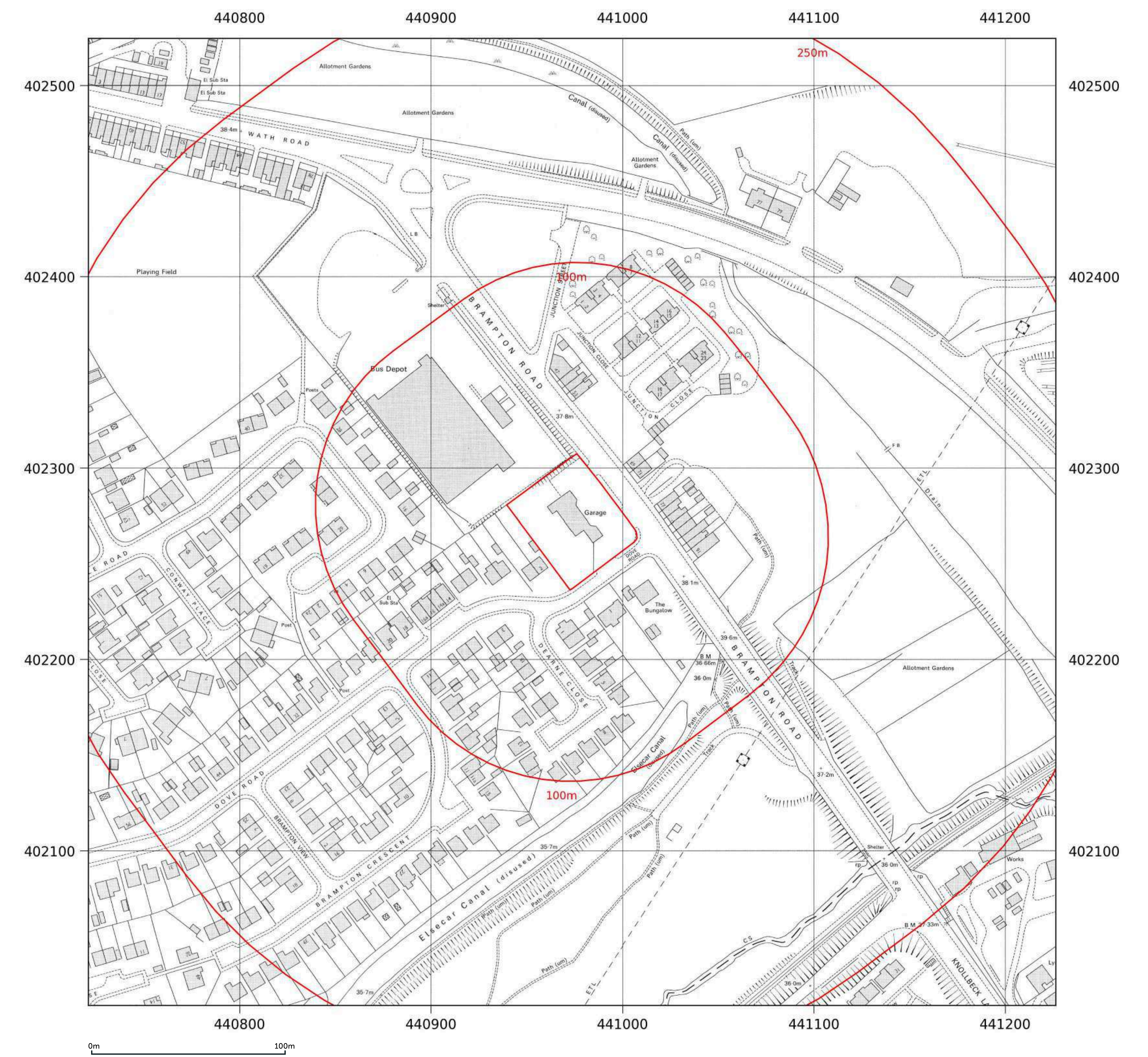

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Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1982
Scale:	1:1,250
Printed at:	1:2,000

N
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Date: 1982
Surveyed: 1982
Revised: 1982
Copyright: 1982
Levelled: 1963

Date: 1982
Surveyed: 1982
Revised: 1982
Copyright: 1982
Levelled: 1963

Date: 1982
Surveyed: 1981
Revised: 1981
Copyright: 1982
Levelled: 1963

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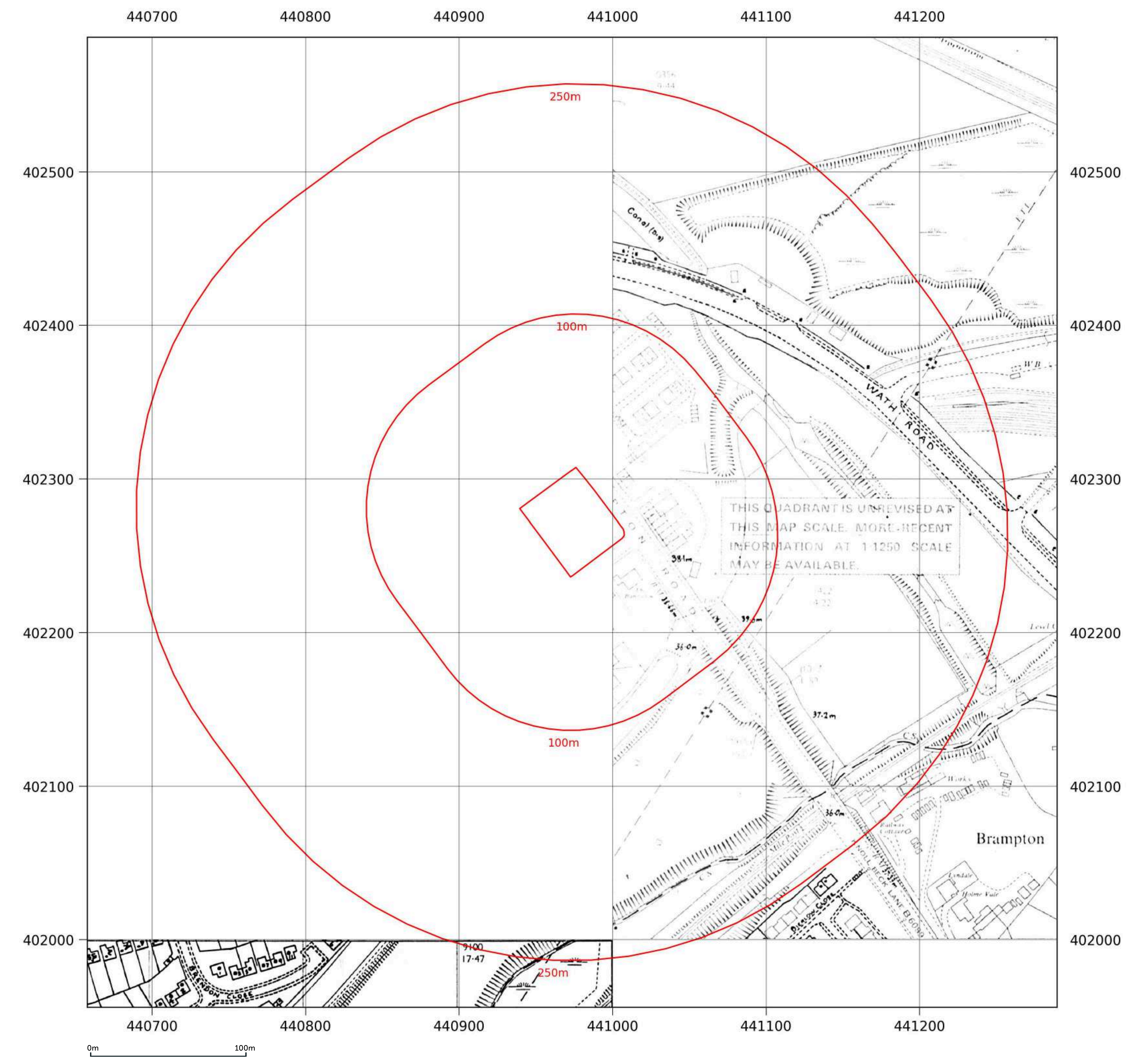

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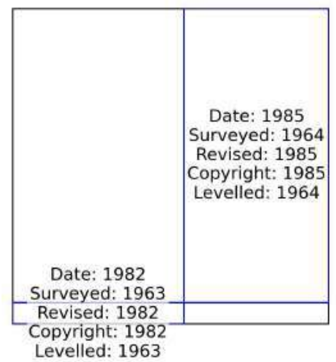
Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1982-1985
Scale:	1:2,500
Printed at:	1:2,500



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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1993
Scale:	1:1,250
Printed at:	1:2,000

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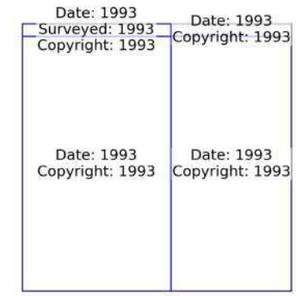

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Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1994-1995
Scale:	1:1,250
Printed at:	1:2,000

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Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1994-1995
Scale:	1:1,250
Printed at:	1:2,000

N
W E
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Date: 1995
Surveyed: 1995
Revised: 1995
Copyright: 1995

Date: 1994
Surveyed: 1994
Revised: 1994
Copyright: 1994

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

N
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Date: 2003

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1854-1855
Scale:	1:10,560
Printed at:	1:10,560

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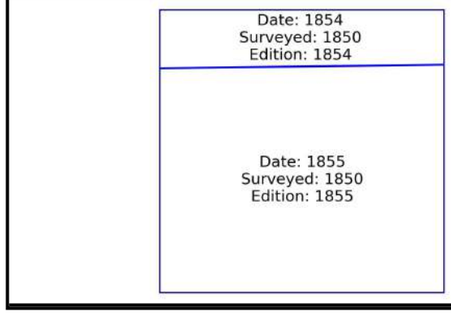

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

750m
500m
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750m

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Map legend available at:
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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1890-1893
Scale:	1:10,560
Printed at:	1:10,560

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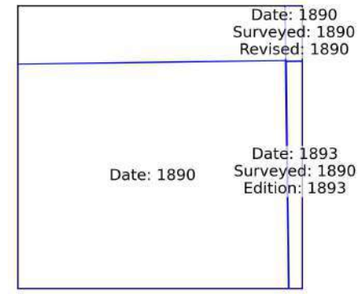

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

750m
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750m

0m 500m

Map legend available at:
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Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1901-1904
Scale:	1:10,560
Printed at:	1:10,560

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W E
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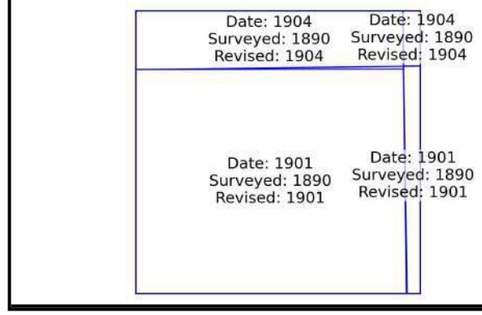

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

750m
500m
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Map legend available at:
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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1929
Scale:	1:10,560
Printed at:	1:10,560

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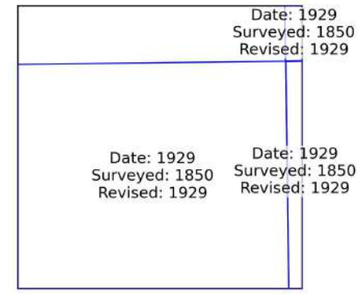

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

750m 500m 500m 750m

0m 500m

Map legend available at:
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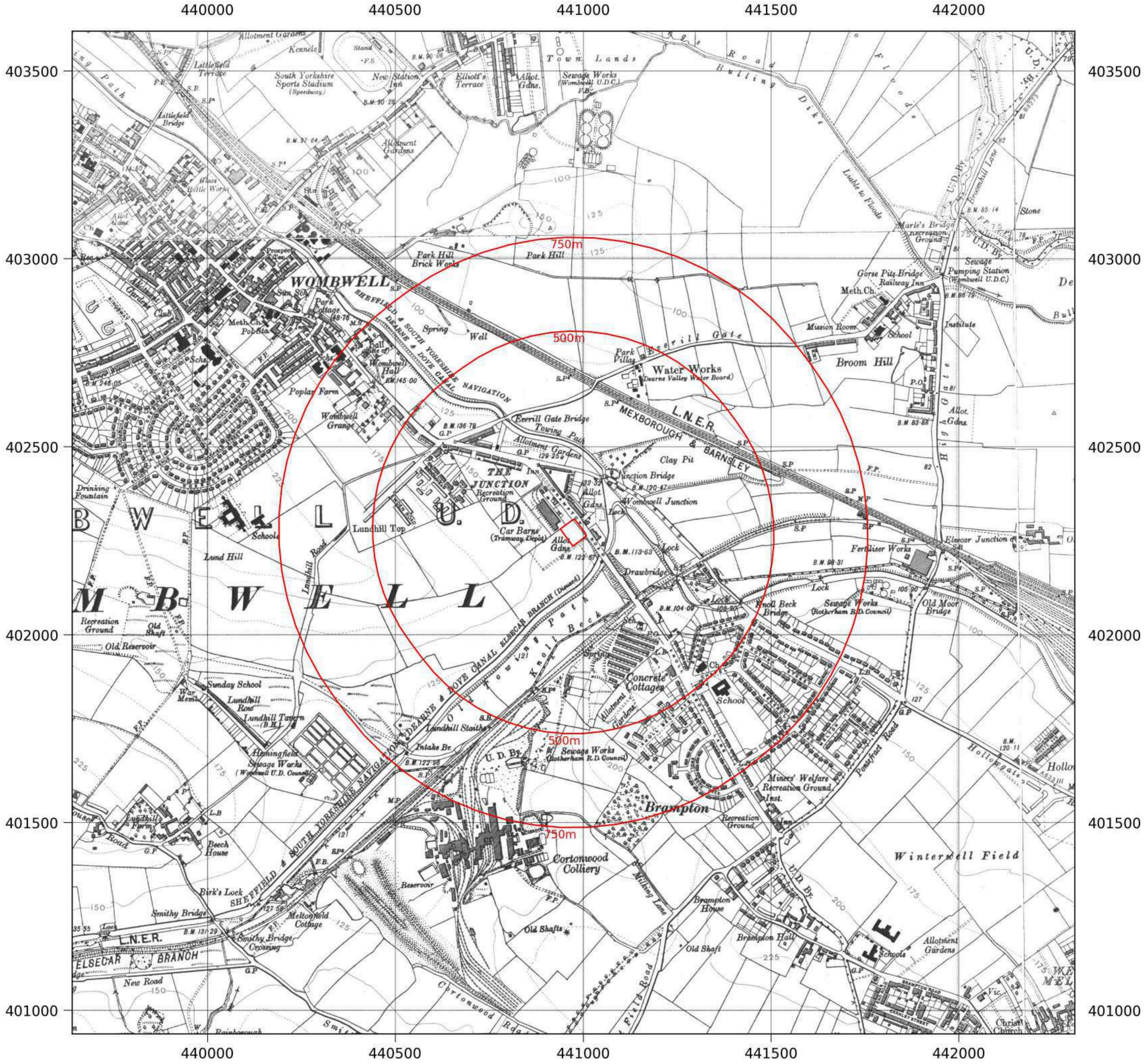

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Map Insight

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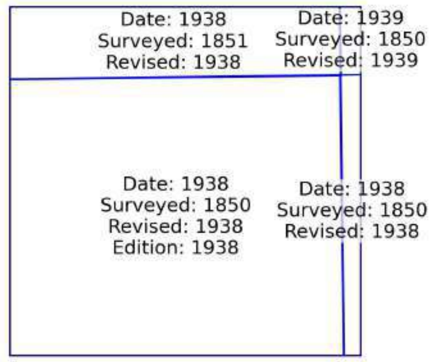
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1938-1939
Scale:	1:10,560
Printed at:	1:10,560



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Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	County Series
Map date:	1948
Scale:	1:10,560
Printed at:	1:10,560

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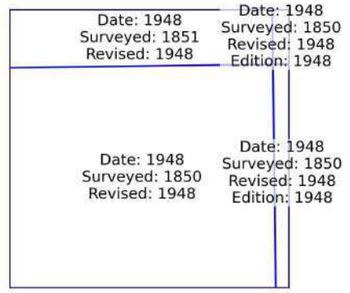

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

750m 500m 500m 750m

0m 500m

Map legend available at:
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Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	Provisional
Map date:	1951
Scale:	1:10,560
Printed at:	1:10,560

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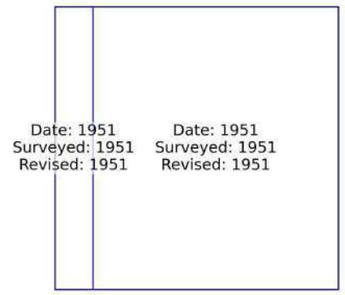

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Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	Provisional
Map date:	1966-1967
Scale:	1:10,560
Printed at:	1:10,560

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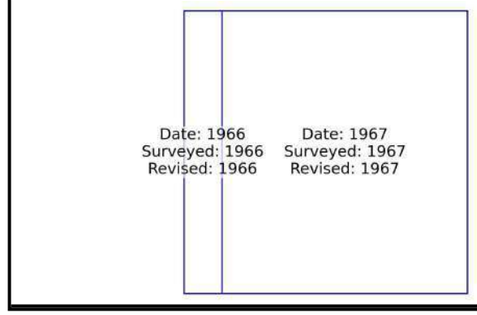

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440000 440500 441000 441500 442000

403500 403000 402500 402000 401500 401000

0m 500m

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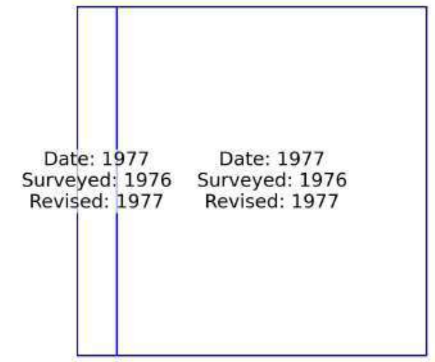
Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1977
Scale:	1:10,000
Printed at:	1:10,000



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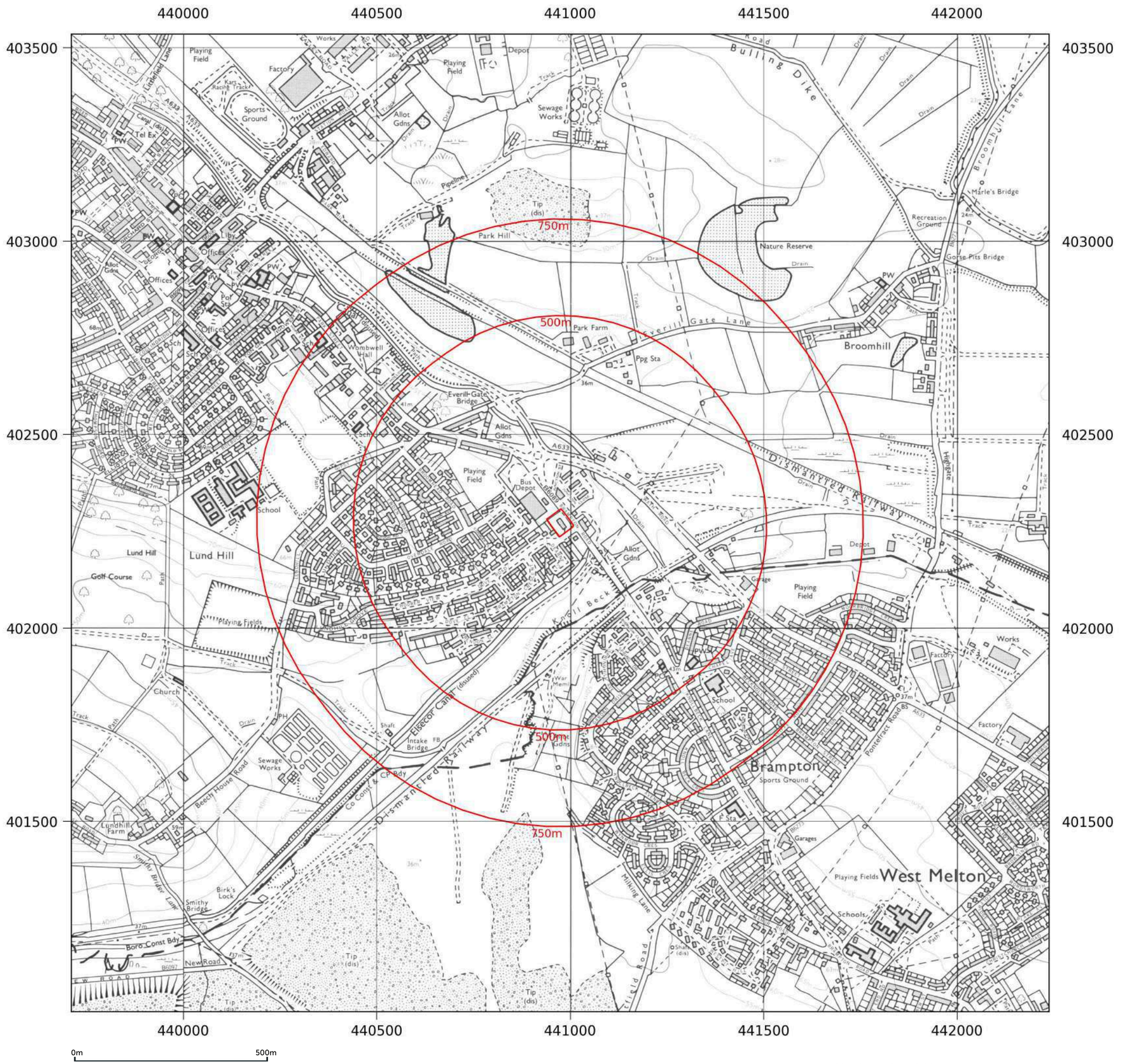

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Map Insight

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	1987-1988
Scale:	1:10,000
Printed at:	1:10,000

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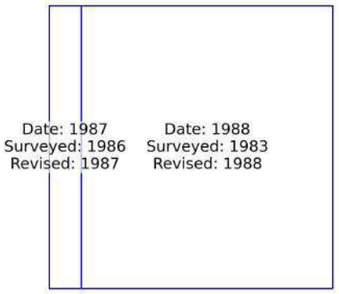

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Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

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

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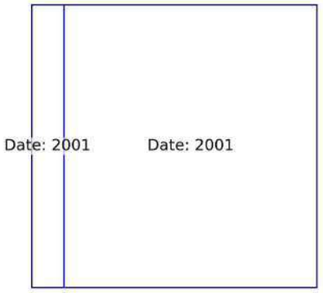

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Map Insight

Site details:	Brampton Road, Wombwell, S73 0NZ
Client ref:	4883
Report ref:	GS-WVQ-8EC-7MS-ID2
Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	2010
Scale:	1:10,000
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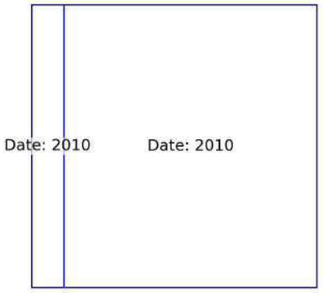

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Map name:	National Grid
Map date:	2015
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Grid ref:	440974.46, 402272.15
Production date:	19 January 2026

Map name:	National Grid
Map date:	2025
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Appendix C – Risk Assessment Terminology

Definitions and Classifications of Risk Assessment Terminology.

Probability

Probability can be defined as the chance of a particular event occurring in a given period of time.

Descriptions of each of the four qualitative terms to be use in this report to describe the perceived probability of any identified pollutant linkage becoming realised are shown below in Table W.

Term	Description
High Likelihood	There is a pollutant linkage and an event would appear 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 long period such an event would take place and is less likely in the shorter term.
Unlikely	There isa pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.

Table W. Description of Probability Classifications

Severity

Severity (consequence) can be defined as the adverse effects (or harm) arising from a defined hazard, which impairs the quality of human health or the environment in the short or longer term.

Descriptions of each of the four qualitative terms to be use in this report to describe the perceived potential severity of any identified pollutant linkage becoming realised are shown below in Table X.

Term	Description
Severe	Highly elevated concentrations, presenting short-term "acute" hazard, **likely** to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs. Equivalent to **EA Category 1** pollution incident including short-term hazard and/or persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population. Catastrophic damage to crops, buildings or property.
Medium	Elevated concentrations presenting a "chronic" hazard which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs. Equivalent to **EA Category 2** pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.
Mild	Exposure presenting some chronic hazard to human health bur unlikely to lead to "significant harm". Equivalent to **EA Category 3** pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce. Minor or short-lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population. Minor damage to crops, buildings or property.
Minor	No long term hazard to human health, non-permanent human health effects easily prevented by mitigation such as personal protective clothing. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Easily repairable effects of damage to buildings, structures and services.

Table X. Description of Severity Classifications

Once the severity and probability of a pollutant linkage has been determined the risk can be assessed using the risk matrix shown overleaf on Table Y.

Risk Matrix

By cross referencing the derived severity and probability in Table Y, below the perceived potential risk can be determined.

		Severity			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table Y. Risk Assessment Matrix

The risk categories detailed above are defined below in the following Table Z.

Term	Description
Very High Risk	There is a high probability that significant harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
High Risk	Significant harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
Moderate Risk	It is possible that without appropriate remedial action, harm could arise to a designated receptor but it is relatively unlikely that any such harm would be severe and if any harm were to occur, it is likely that such harm would be relatively mild.
Low Risk	It is possible that significant harm could arise to a designated receptor from an identified hazard but it is likely that at worst this harm if realised would normally be mild.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

Table Z. Definition of Risk