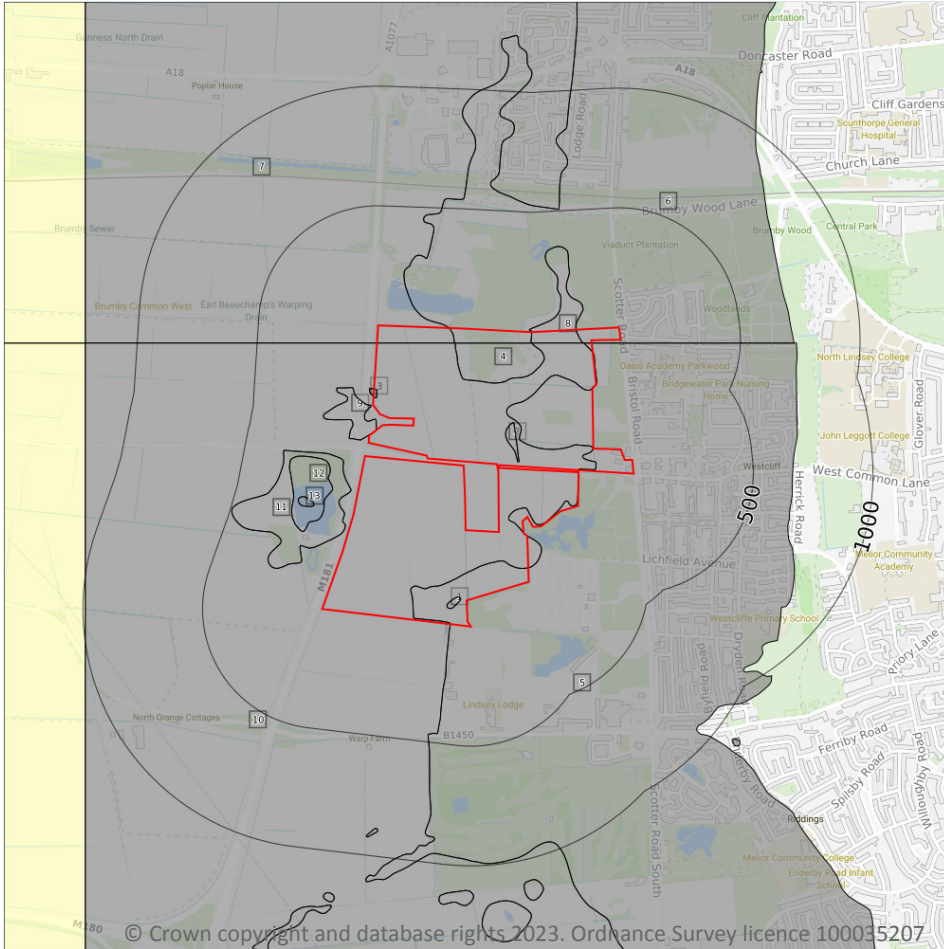


Geology 1:10,000 scale - Superficial



— 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

13

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 87](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	WARP-XCZSV	Warp - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
3	On site	BSA1-S	Blown Sand, 1 - Sand	Sand



ID	Location	LEX Code	Description	Rock description
4	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
5	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
6	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
7	On site	WARP-CLSI	Warp - Clay And Silt	Clay And Silt
8	On site	WARP-CLSI	Warp - Clay And Silt	Clay And Silt
9	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
10	On site	WARP-XCZSV	Warp - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
11	19m SW	BSA1-S	Blown Sand, 1 - Sand	Sand
12	106m W	WARP-XCZSV	Warp - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
13	170m W	BSA1-S	Blown Sand, 1 - Sand	Sand

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

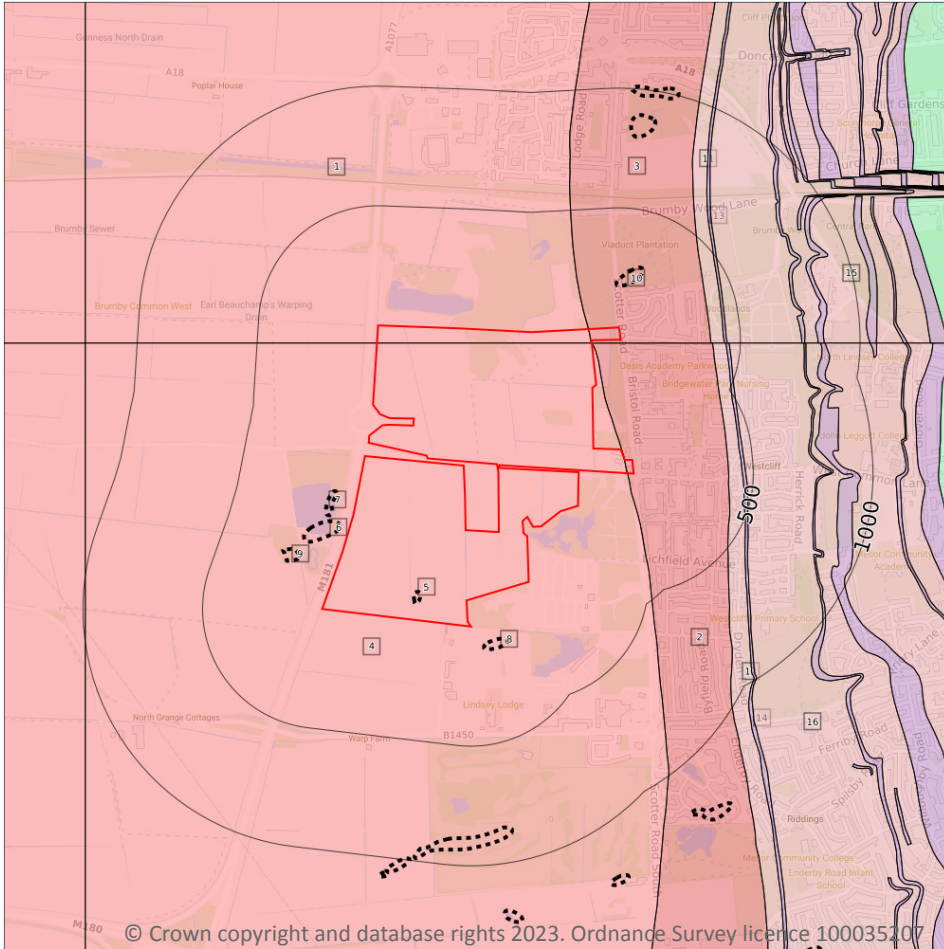
0

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

10

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 89](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
2	On site	PNG-MDST	Penarth Group - Mudstone	Rhaetian Age
3	On site	PNG-MDST	Penarth Group - Mudstone	Rhaetian Age



ID	Location	LEX Code	Description	Rock age
4	On site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
11	374m NE	SMD-MDLM	Scunthorpe Mudstone Formation - Mudstone And Limestone, Interbedded	Sinemurian Age - Rhaetian Age
12	384m NE	SMD-MDLM	Scunthorpe Mudstone Formation - Mudstone And Limestone, Interbedded	Sinemurian Age - Rhaetian Age
13	429m NE	SMD-LMST	Scunthorpe Mudstone Formation - Limestone	Sinemurian Age - Rhaetian Age
14	440m NE	SMD-LMST	Scunthorpe Mudstone Formation - Limestone	Sinemurian Age - Rhaetian Age
15	440m NE	SMD-MDLM	Scunthorpe Mudstone Formation - Mudstone And Limestone, Interbedded	Sinemurian Age - Rhaetian Age
16	453m NE	SMD-MDLM	Scunthorpe Mudstone Formation - Mudstone And Limestone, Interbedded	Sinemurian Age - Rhaetian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	6
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Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

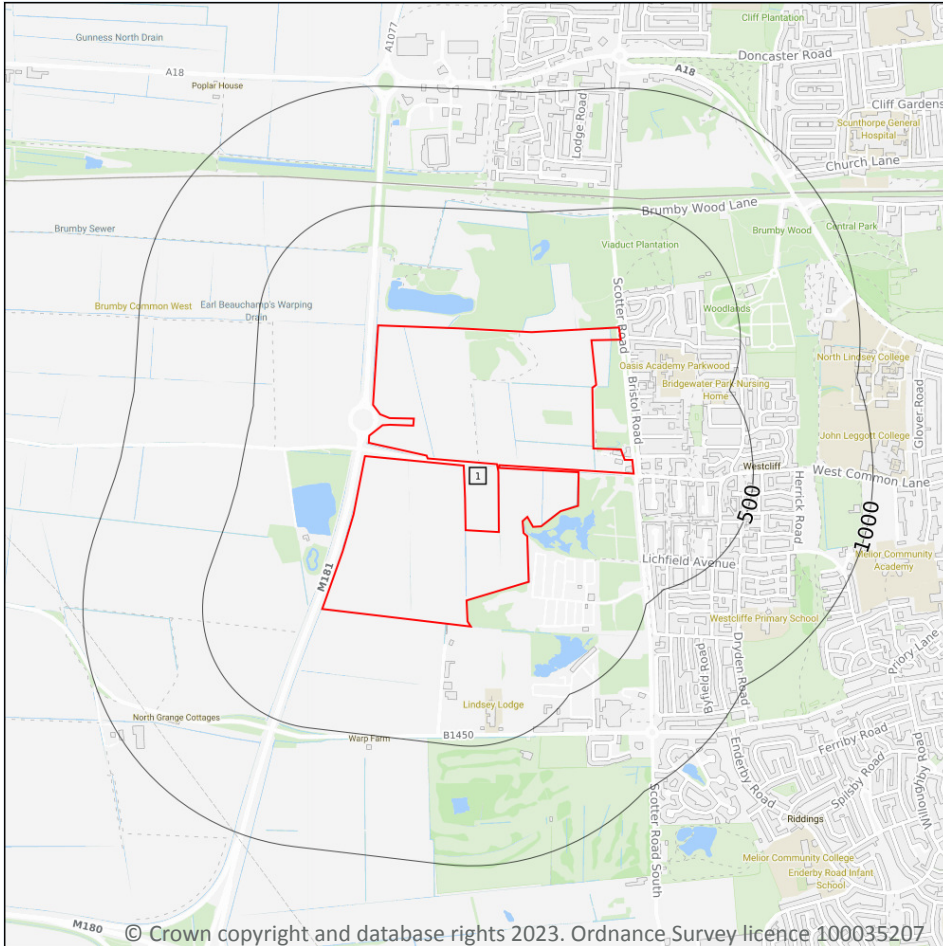
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 89 >](#)

ID	Location	Category	Description
5	On site	LANDFORM	Dune, form-line at base of mound
6	39m SW	LANDFORM	Dune, form-line at base of mound
7	86m W	LANDFORM	Dune, form-line at base of mound
8	96m S	LANDFORM	Dune, form-line at base of mound
9	163m SW	LANDFORM	Dune, form-line at base of mound
10	174m NE	LANDFORM	Dune, form-line at base of mound

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 91](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW089_brigg_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

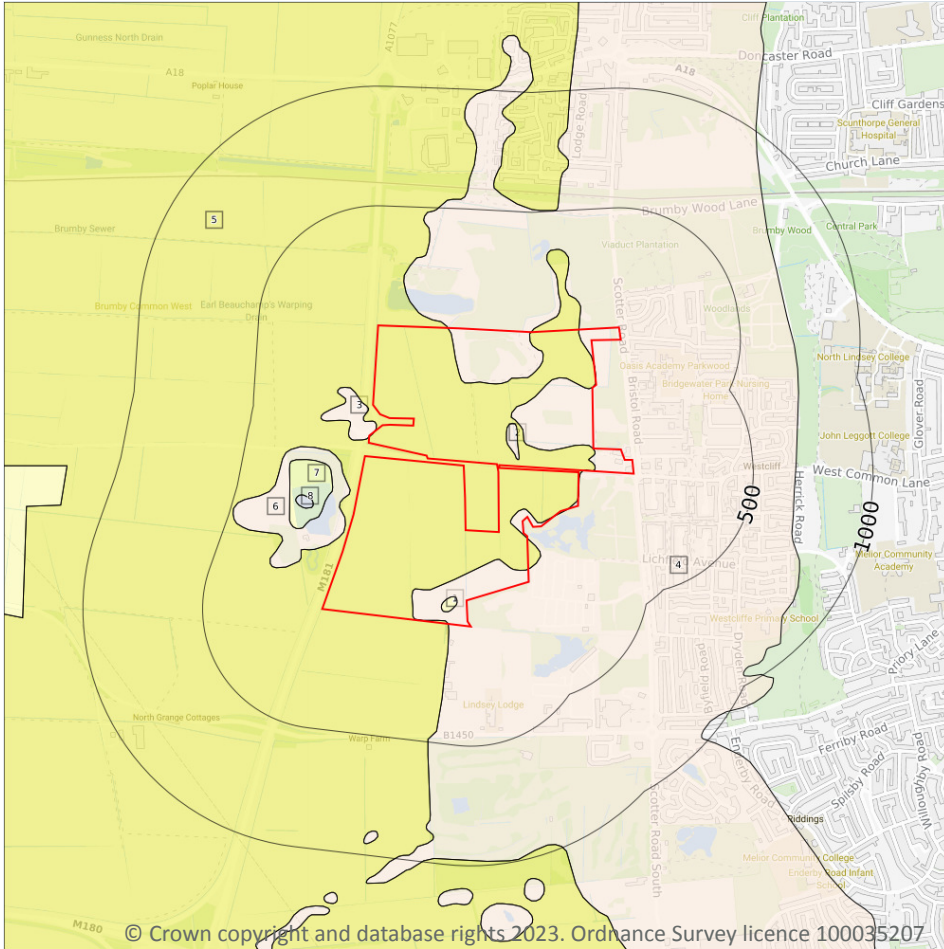
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

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 93](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	SUTN-S	SUTTON SAND FORMATION	SAND
3	On site	SUTN-S	SUTTON SAND FORMATION	SAND
4	On site	SUTN-S	SUTTON SAND FORMATION	SAND



ID	Location	LEX Code	Description	Rock description
5	On site	WARP-XCZ	WARP	CLAY AND SILT
6	19m SW	SUTN-S	SUTTON SAND FORMATION	SAND
7	106m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	173m W	SUTN-S	SUTTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	10
---------------------------	-----------

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	High	Very Low
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	Low	Very Low
On site	Intergranular	Low	Very Low
On site	Intergranular	Low	Very Low
19m SW	Intergranular	High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

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

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

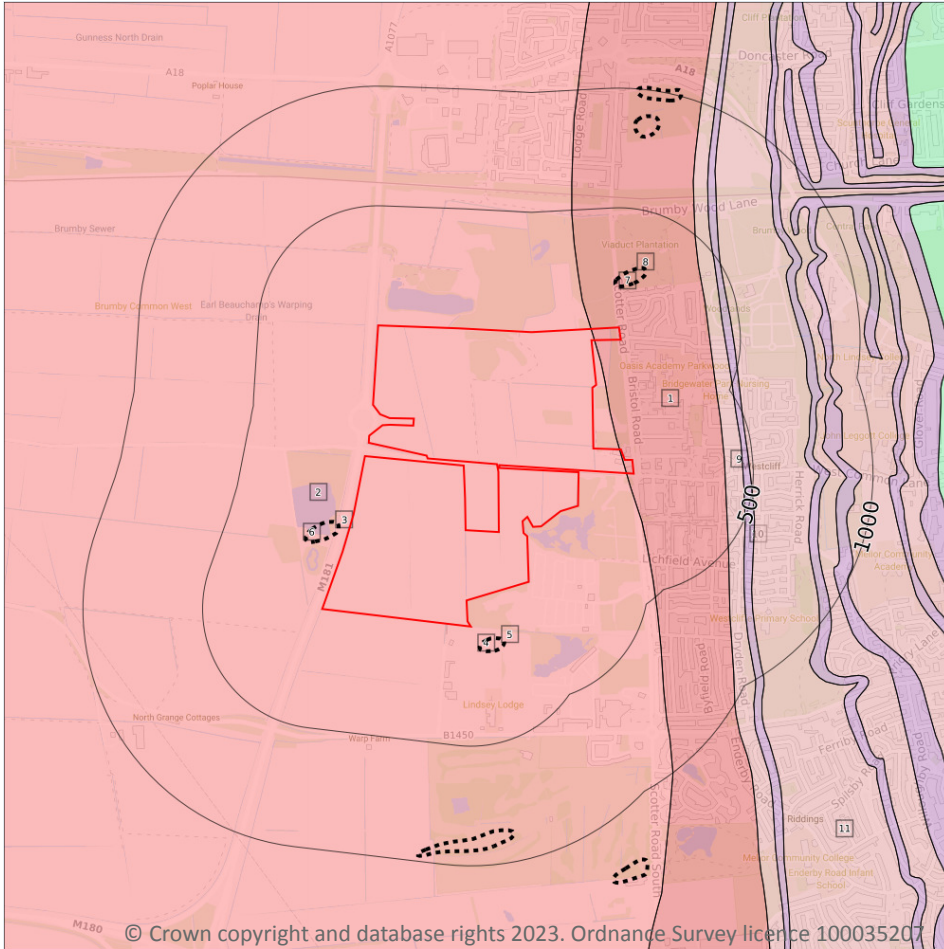
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

5

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 96](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PNG-MDST	PENARTH GROUP - MUDSTONE	RHAETIAN
2	On site	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-
9	369m NE	SMD-MDLM	SCUNTHORPE MUDSTONE FORMATION - MUDSTONE AND LIMESTONE, INTERBEDDED	RHAETIAN



ID	Location	LEX Code	Description	Rock age
10	430m NE	SMD-LMST	SCUNTHORPE MUDSTONE FORMATION - LIMESTONE	RHAETIAN
11	464m NE	SMD-MDLM	SCUNTHORPE MUDSTONE FORMATION - MUDSTONE AND LIMESTONE, INTERBEDDED	RHAETIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	4
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	6
----------------------------	----------

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 96 >](#)

ID	Location	Category	Description
3	43m SW	LANDFORM	Dune, form line at base
4	82m S	LANDFORM	Dune, form line at base
5	87m S	LANDFORM	Dune, form line at base
6	124m SW	LANDFORM	Dune, form line at base
7	172m NE	LANDFORM	Dune, form line at base
8	193m NE	LANDFORM	Dune, form line at base



This data is sourced from the British Geological Survey.



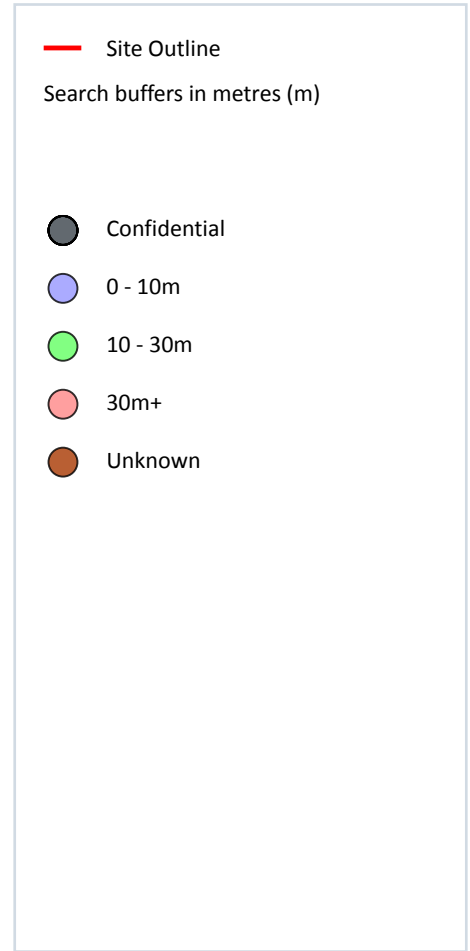
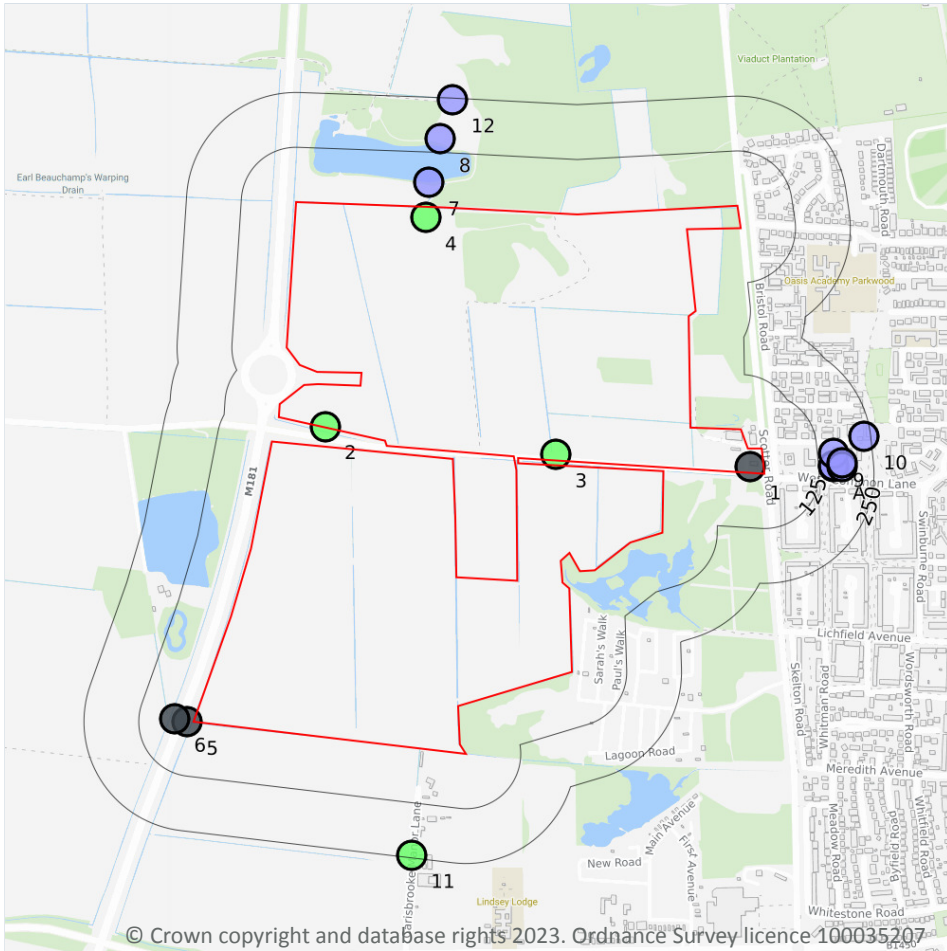
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Date: 30 June 2023

16 Boreholes



16.1 BGS Boreholes

Records within 250m

16

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
1	On site	487260 409470	BROMLEY GROVE BRUMBY	-	Y	N/A
2	On site	486291 409562	NE ROAD CONS UNIT TRIALS FOR A18/M180 ROUTE B611	25.0	N	710686 ↗

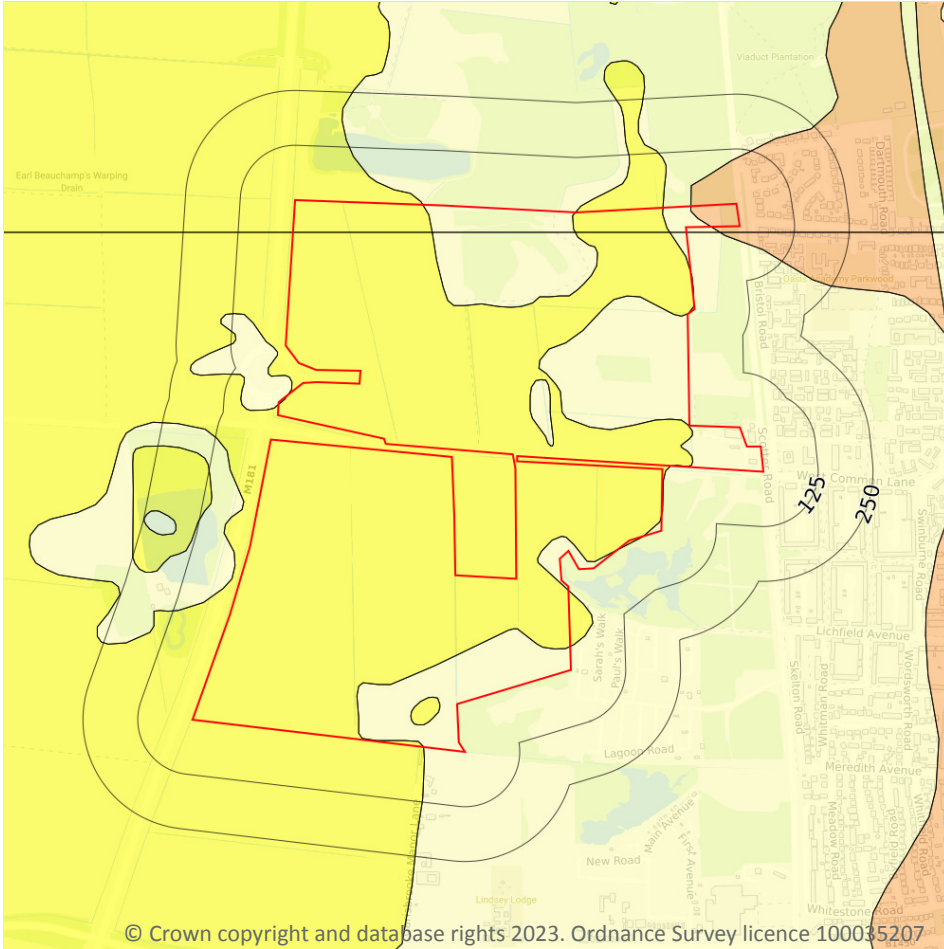


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	486817 409499	BRUMBY COMMON WEST	14.8	N	710730 ↗
4	On site	486520 410038	M180-BELFORT-SCUNTHORPE BH758-777	15.95	N	131824 ↗
5	14m SW	485976 408889	HUMBERSIDE NMCS2 UPGRADE WS67A	-	Y	N/A
6	43m SW	485948 408896	HUMBERSIDE NMCS2 UPGRADE WS67	-	Y	N/A
7	55m N	486527 410118	M180-BELFORT-SCUNTHORPE BH758-777	5.45	N	131825 ↗
8	156m N	486552 410218	M180-BELFORT-SCUNTHORPE BH758-777	5.45	N	131826 ↗
A	159m E	487450 409470	SCUNTHORPE DORCHESTER ROAD 4	8.5	N	710787 ↗
A	159m E	487450 409472	BRUMBY GROVE	7.0	N	710731 ↗
9	162m E	487450 409500	SCUNTHORPE DORCHESTER ROAD 1	8.5	N	710784 ↗
A	179m E	487470 409470	SCUNTHORPE DORCHESTER ROAD 3	8.5	N	710786 ↗
A	180m E	487470 409480	SCUNTHORPE DORCHESTER ROAD 2	8.5	N	710785 ↗
10	236m E	487520 409540	WESTCLIFFE SCUNTHORPE 2	7.0	N	13334593 ↗
11	244m S	486488 408584	WARREN HOUSE	13.8	N	710733 ↗
12	246m N	486580 410307	M180-BELFORT-SCUNTHORPE BH758-777	5.45	N	131827 ↗

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

5

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](#) >

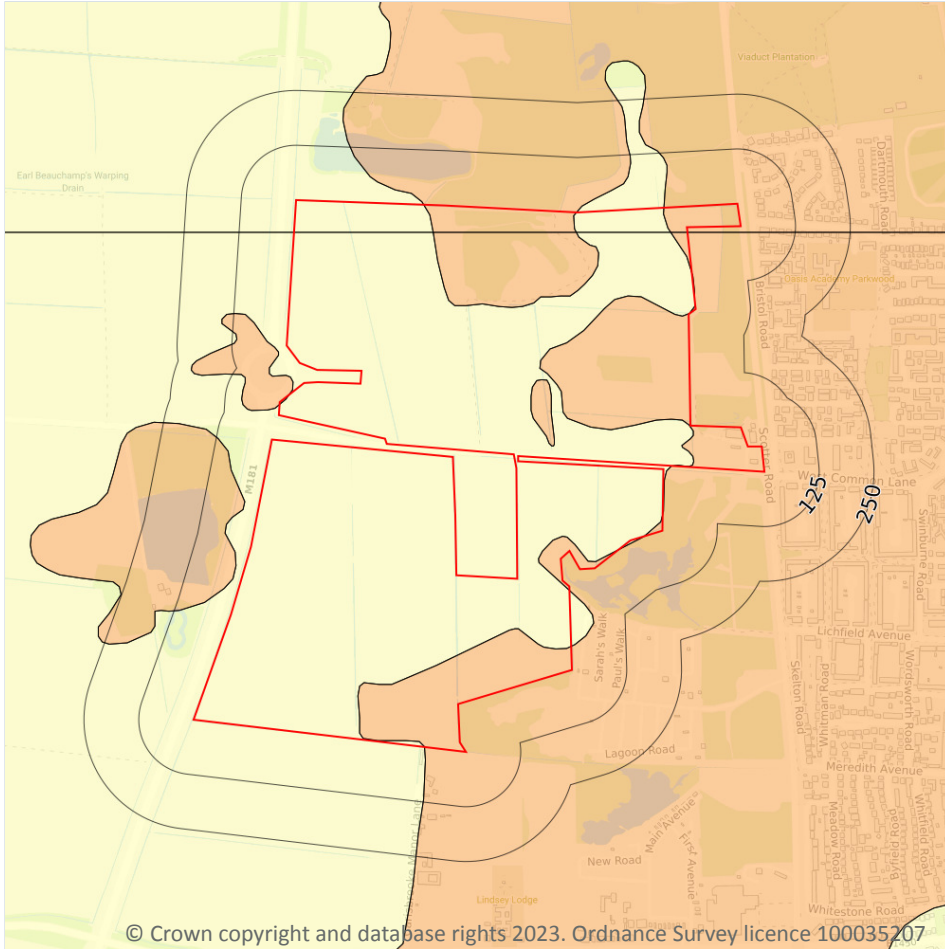
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.

Location	Hazard rating	Details
13m NE	Low	Ground conditions predominantly medium plasticity.
19m SW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

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

17.2 Running sands

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 103](#) >

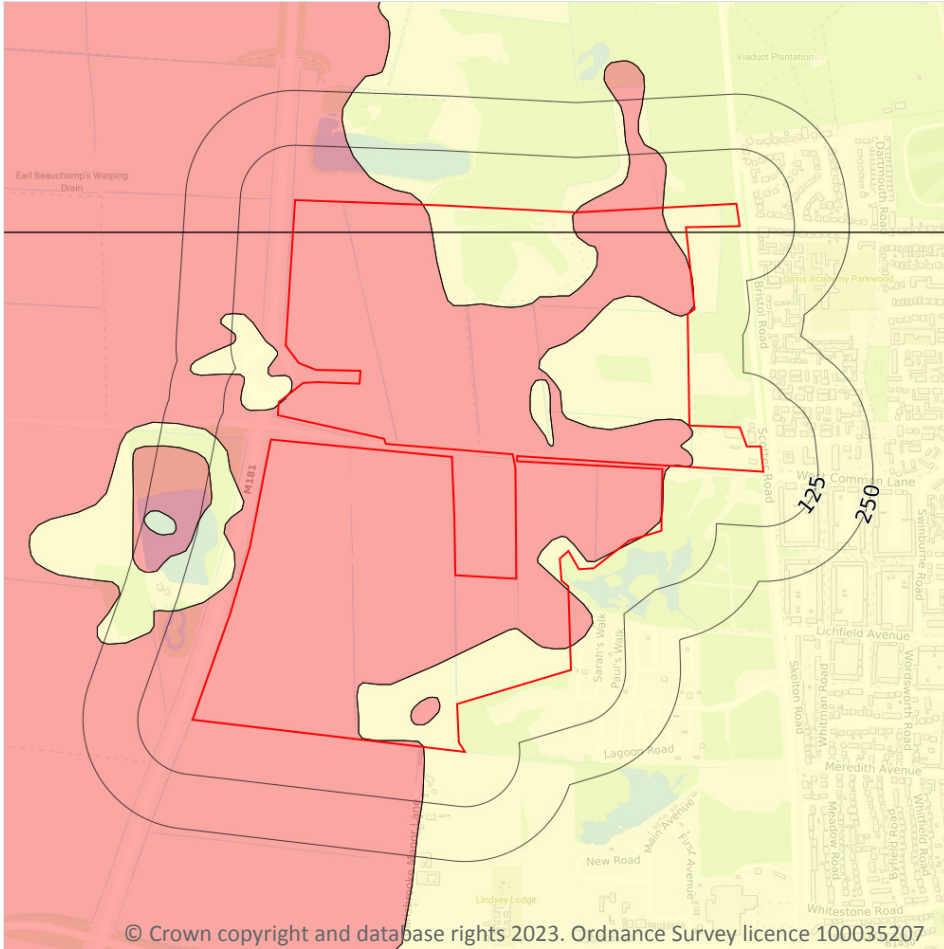
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
19m SW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

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

3

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 105](#) >

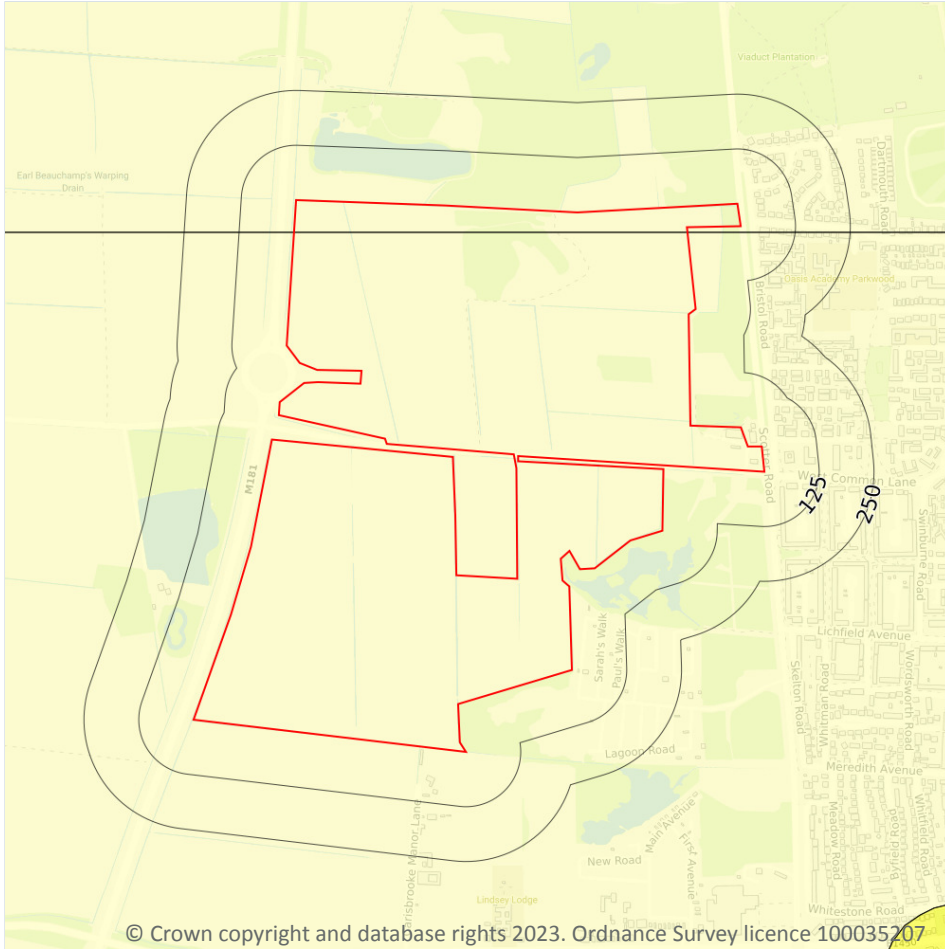
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



Location	Hazard rating	Details
19m SW	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 107 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



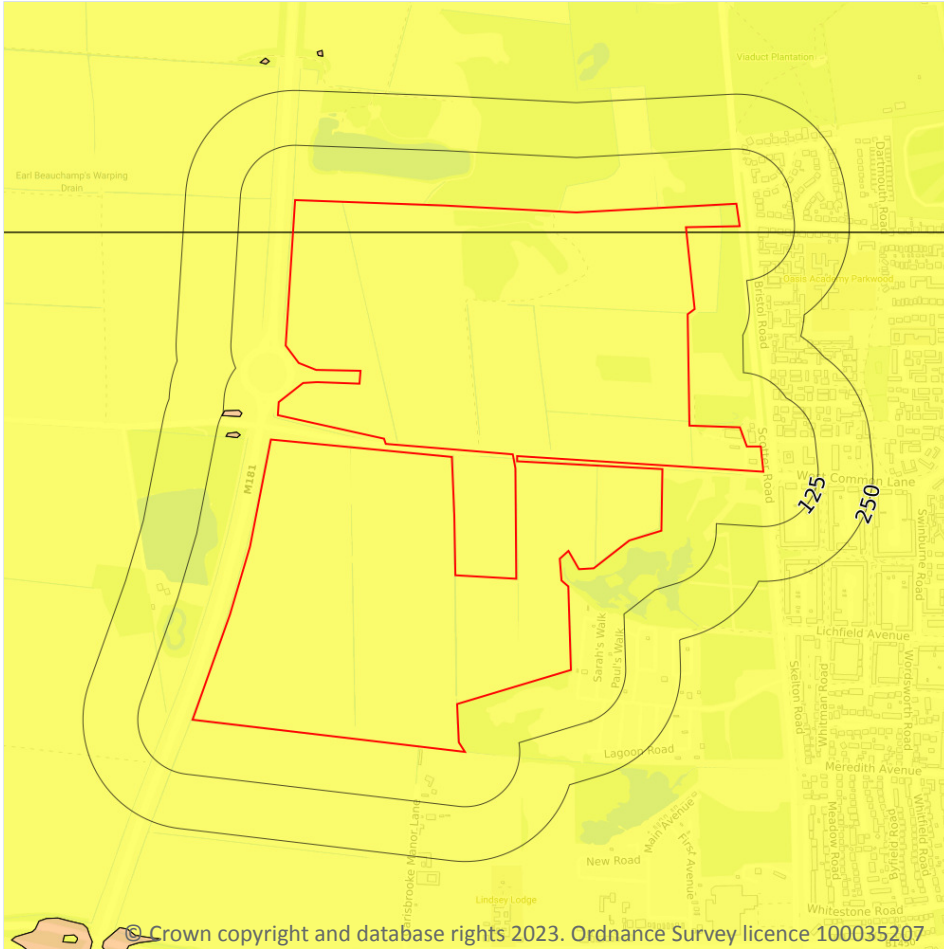
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Date: 30 June 2023

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 108](#) >

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.



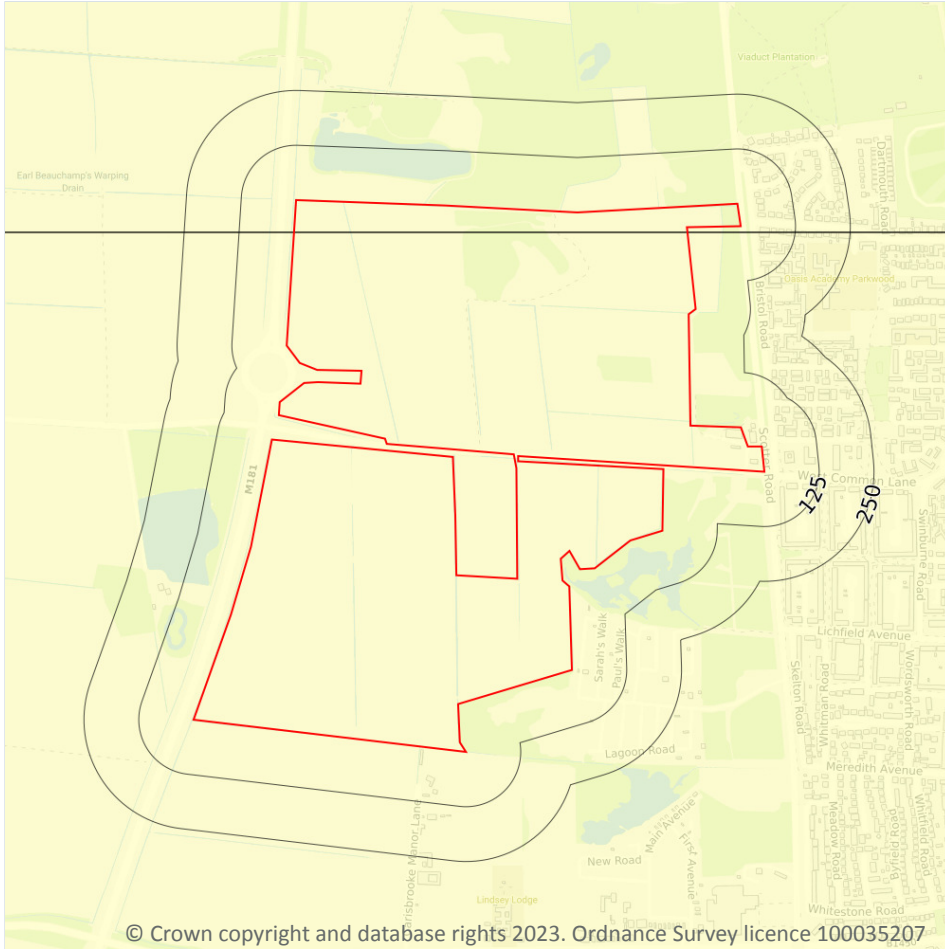
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Date: 30 June 2023

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 109 >](#)

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.



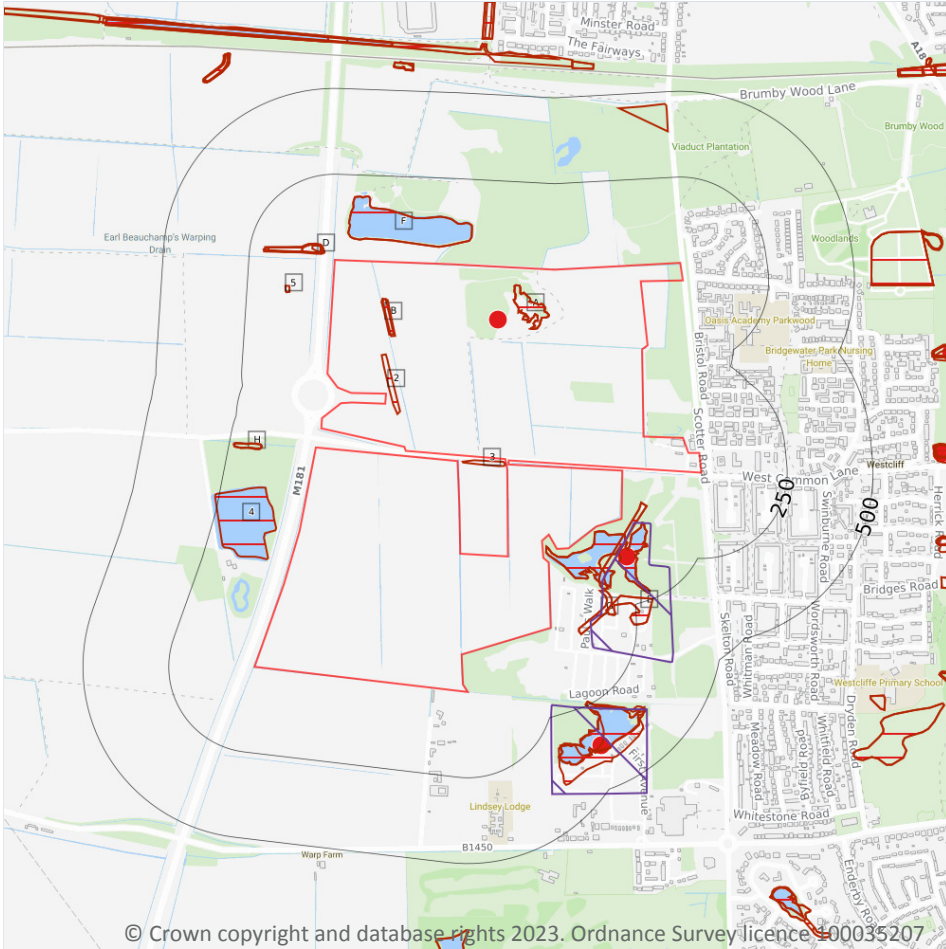
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Date: 30 June 2023

18 Mining and ground workings



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- 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

3

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

Features are displayed on the Mining and ground workings map on [page 111](#) >

ID	Location	Details	Description
1	On site	Name: Brumby Common Address: Brumby Common, SCUNTHORPE, Lincolnshire Commodity: Sand Status: Inactive	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, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission
C	109m SE	Name: Burringham Road Sand Pit Address: Bottesford, SCUNTHORPE, North Lincolnshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	372m SE	Name: Warren House Gravel Pit Address: Bottesford, SCUNTHORPE, North Lincolnshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	33
----------------------------	-----------

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 111](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Unspecified Heap	1955	1:10560
A	On site	Ponds	1968	1:10560
A	On site	Ponds	1975	1:10000
A	On site	Ponds	1981	1:10000
B	On site	Unspecified Heap	1955	1:10560
B	On site	Unspecified Heap	1885	1:10560
3	3m E	Unspecified Heap	1955	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	10m SE	Water Body	1968	1:10560
C	10m SE	Water Body	1975	1:10000
C	10m SE	Water Body	1981	1:10000
C	29m E	Unspecified Heap	1938	1:10560
C	29m E	Unspecified Heap	1906	1:10560
D	37m NW	Unspecified Heap	1969	1:10000
D	42m NW	Unspecified Heap	1938	1:10560
D	42m NW	Unspecified Heap	1906	1:10560
D	43m NW	Unspecified Heap	1885	1:10560
D	47m NW	Unspecified Heap	1948	1:10560
D	47m NW	Unspecified Heap	1948	1:10560
D	49m NW	Unspecified Heap	1956	1:10560
F	49m N	Pond	1990	1:10000
F	49m N	Pond	1980	1:10000
4	66m SW	Pond	1981	1:10000
G	83m SE	Unspecified Heap	1938	1:10560
G	83m SE	Unspecified Heap	1905	1:10560
5	126m NW	Unspecified Heap	1955	1:10560
H	155m W	Unspecified Heap	1948	1:10560
H	155m W	Unspecified Heap	1948	1:10560
H	156m W	Unspecified Heap	1885	1:10560
E	163m SE	Refuse Heap	1968	1:10560
E	163m SE	Refuse Heap	1975	1:10000
I	241m SE	Pond	1975	1:10000
I	241m SE	Pond	1981	1:10000
I	241m SE	Water Body	1968	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

2

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 111](#) >

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
E	38m E	Burringham Road	Sand	Surface mineral working	Valid	16/7/48
I	217m S	Warren House	Sand	Surface mineral working	Valid	6/48

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

1

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

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

This data is sourced from Johnson Poole and Bloomer.

18.8 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, Tithes 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

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.

19.5 National karst database

Records within 500m

0

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

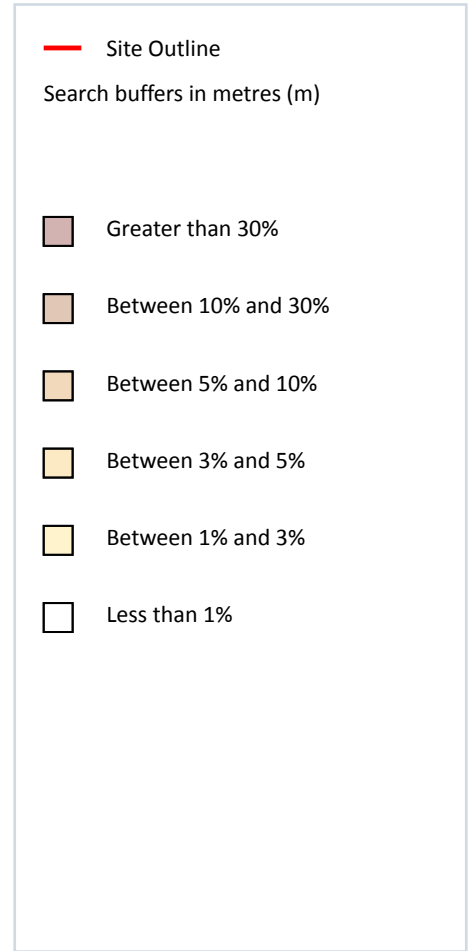
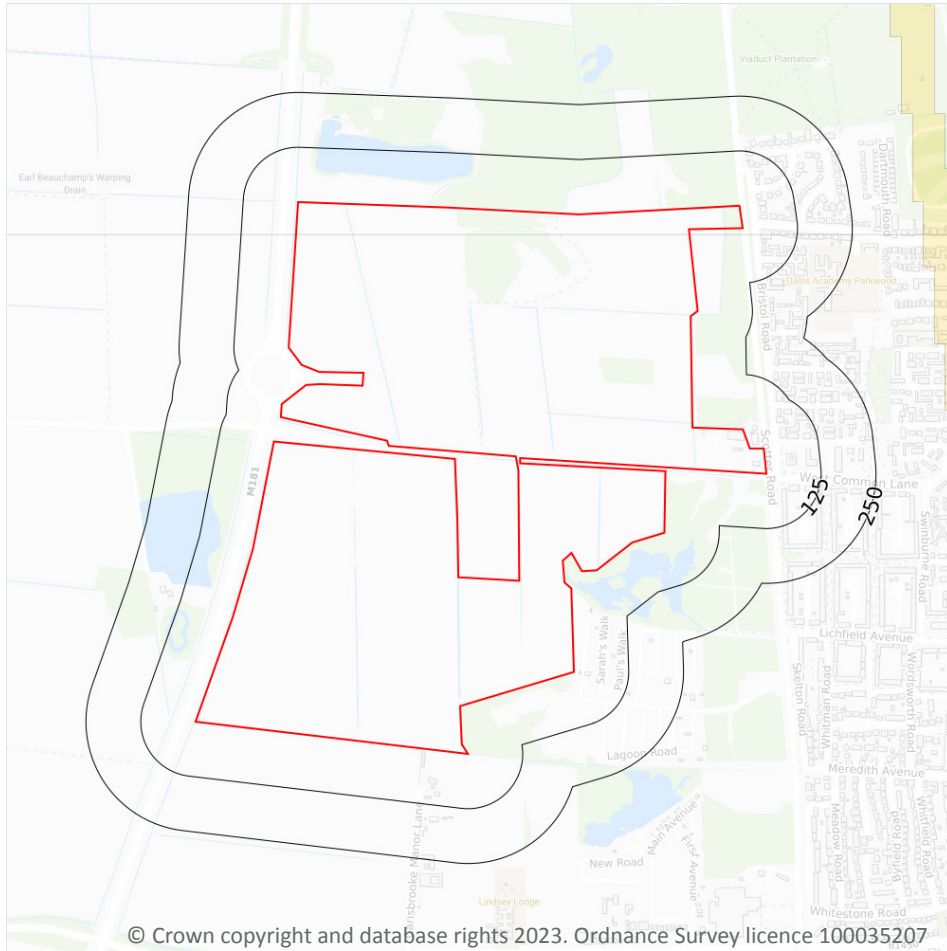
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



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 120 >](#)

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.



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 30 June 2023

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

48

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

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



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 - 200 mg/kg	60 - 120 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	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	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	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	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	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	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
12m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
15m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
19m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
28m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m SW	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

119

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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	30	No Data Available	9	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
On site	11	0.6	No Data Available	No Data Available	No Data Available	30	No Data Available	9	No Data Available



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	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	31	No Data Available	10	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	31	No Data Available	10	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	31	No Data Available	10	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	31	No Data Available	10	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
On site	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
On site	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available



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	9	0.5	No Data Available	No Data Available	No Data Available	28	No Data Available	7	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	28	No Data Available	7	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	28	No Data Available	7	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	28	No Data Available	7	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
On site	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
0m NE	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
1m SE	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
8m E	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
12m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available



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)
13m E	10	0.5	No Data Available	No Data Available	No Data Available	32	No Data Available	9	No Data Available
13m NE	12	0.6	No Data Available	No Data Available	No Data Available	39	No Data Available	13	No Data Available
22m NE	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
27m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
34m SE	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
35m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
36m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
39m E	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
40m NE	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
42m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
42m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
43m E	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
44m NE	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
44m E	11	0.6	No Data Available	No Data Available	No Data Available	33	No Data Available	10	No Data Available
45m E	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
46m N	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available
46m SE	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available



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)
47m SE	9	0.5	No Data Available	No Data Available	No Data Available	29	No Data Available	8	No Data Available
47m SE	9	0.5	No Data Available	No Data Available	No Data Available	28	No Data Available	7	No Data Available
47m NE	17	0.9	No Data Available	No Data Available	No Data Available	84	No Data Available	30	No Data Available
50m NE	12	0.6	No Data Available	No Data Available	No Data Available	37	No Data Available	12	No Data Available

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Appendix 4: Historical Mapping

Site Details:

Lincolnshire Lakes East, DN17 2AB

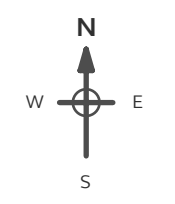
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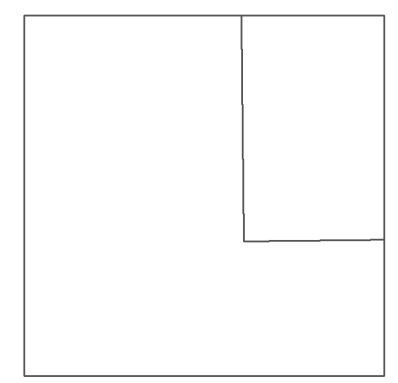
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Printed at: 1:10,560



Surveyed 1885
 Revised 1885
 Edition N/A
 Copyright N/A
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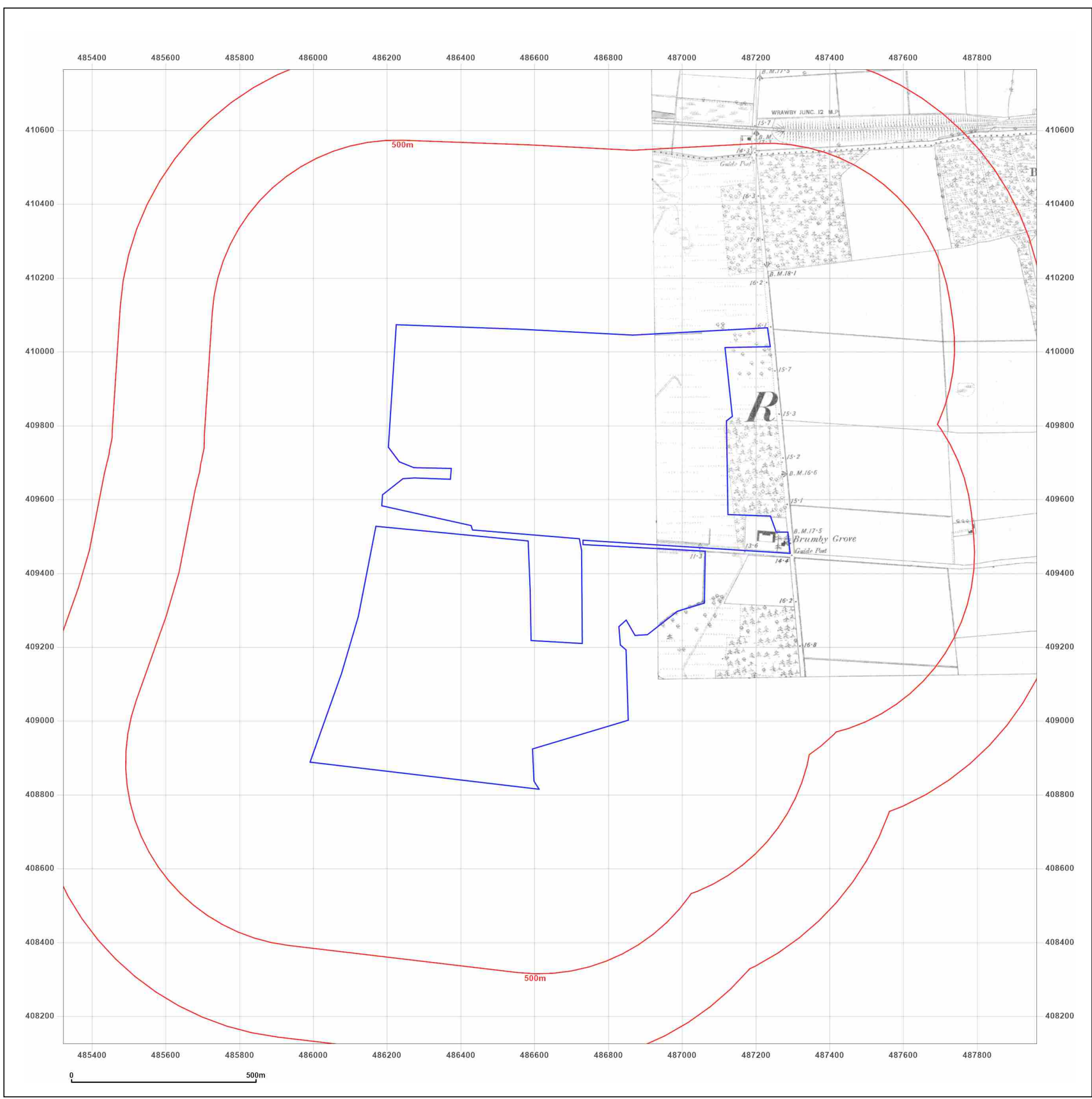


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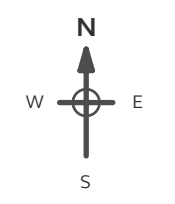
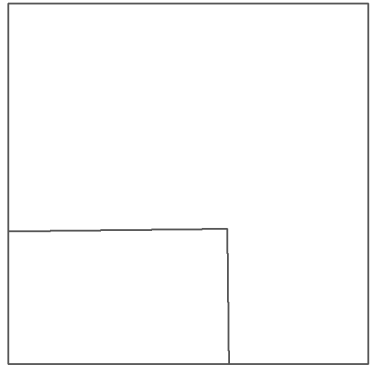
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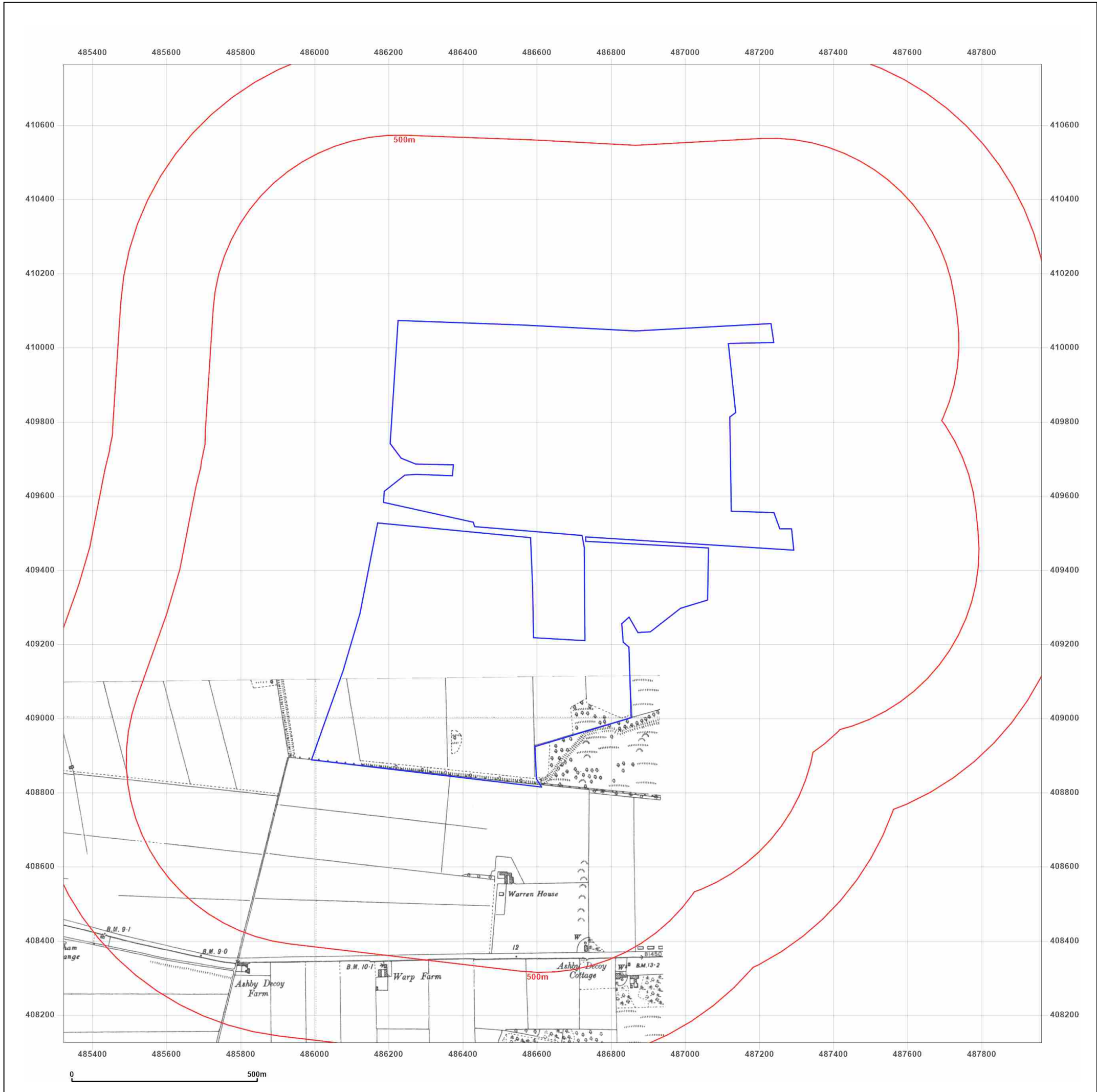
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Scale: 1:10,560

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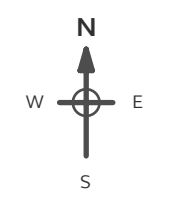
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Grid Ref: 486641, 409444

Map Name: County Series

Map date: 1885-1886

Scale: 1:10,560

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Surveyed 1885 Revised 1885 Edition N/A Copyright N/A Levelled N/A	Surveyed 1885 Revised 1885 Edition N/A Copyright N/A Levelled N/A

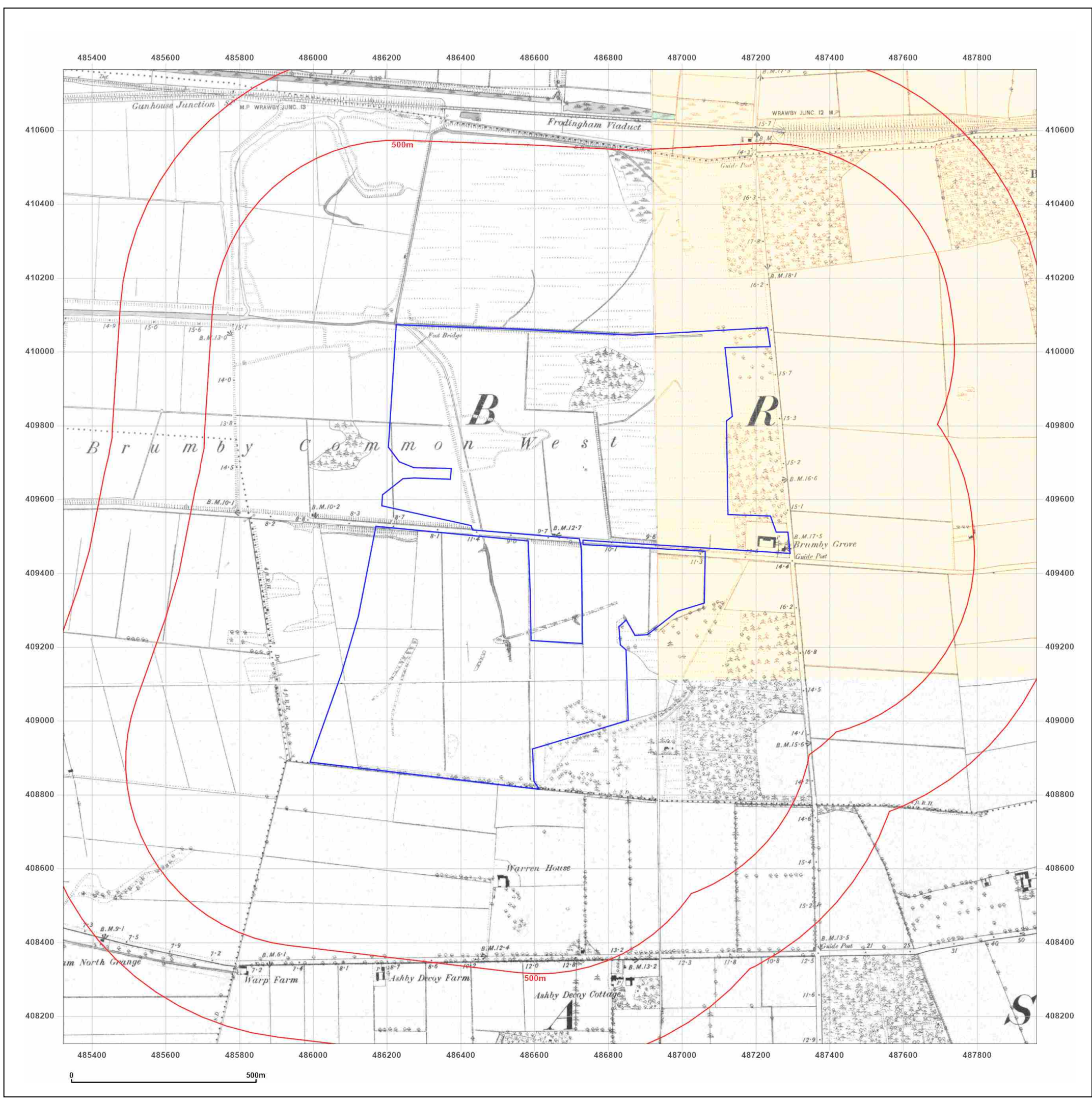


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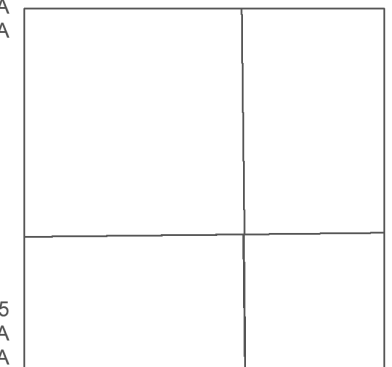
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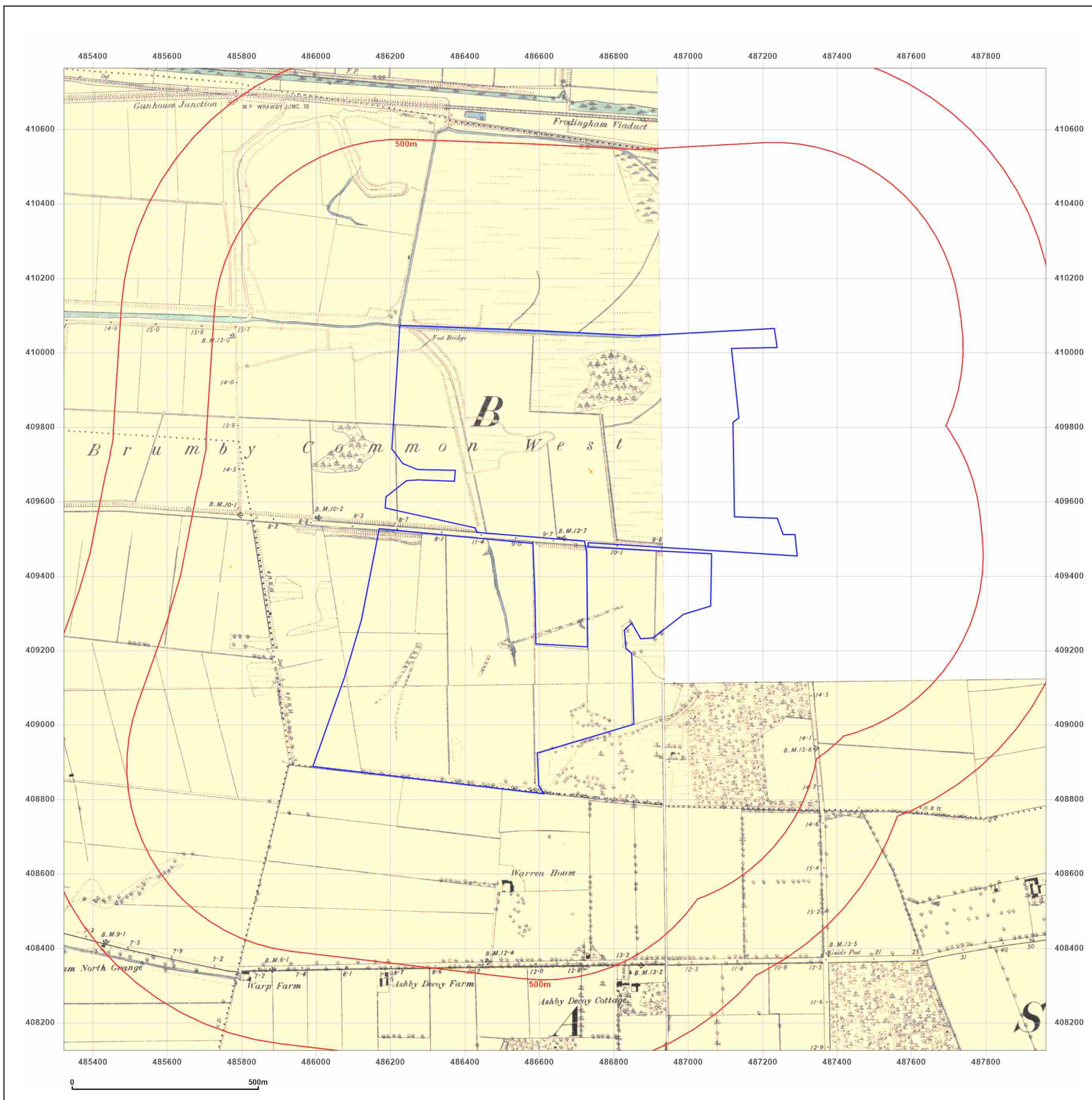


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Grid Ref: 486641, 409444

Map Name: County Series

Map date: 1905-1907

Scale: 1:10,560

Printed at: 1:10,560



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 Revised 1906
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 Revised 1905
 Edition N/A
 Copyright N/A
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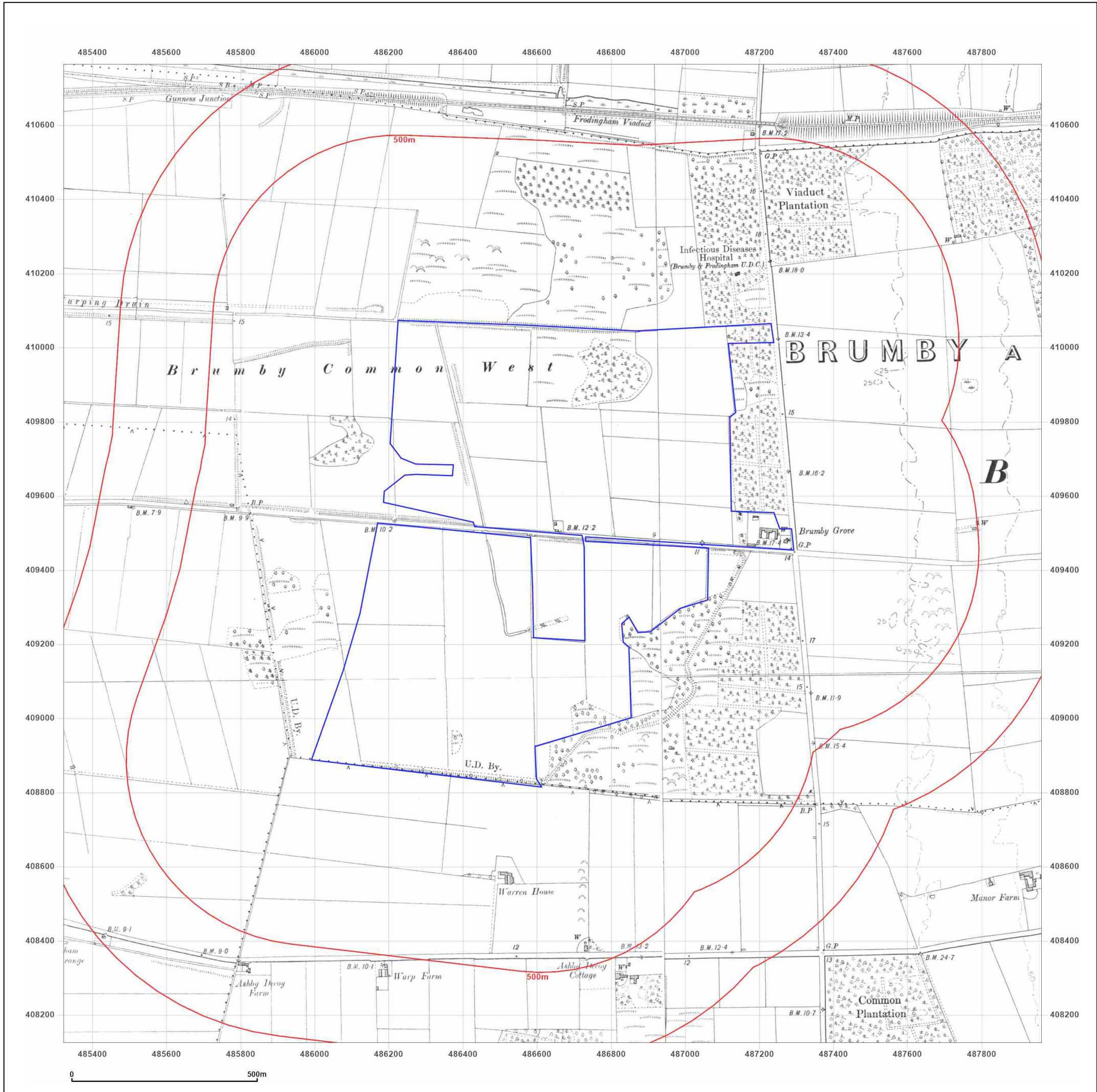


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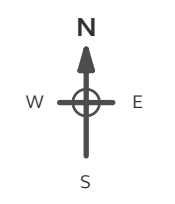
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Map Name: County Series

Map date: 1938

Scale: 1:10,560

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 Revised N/A
 Edition N/A
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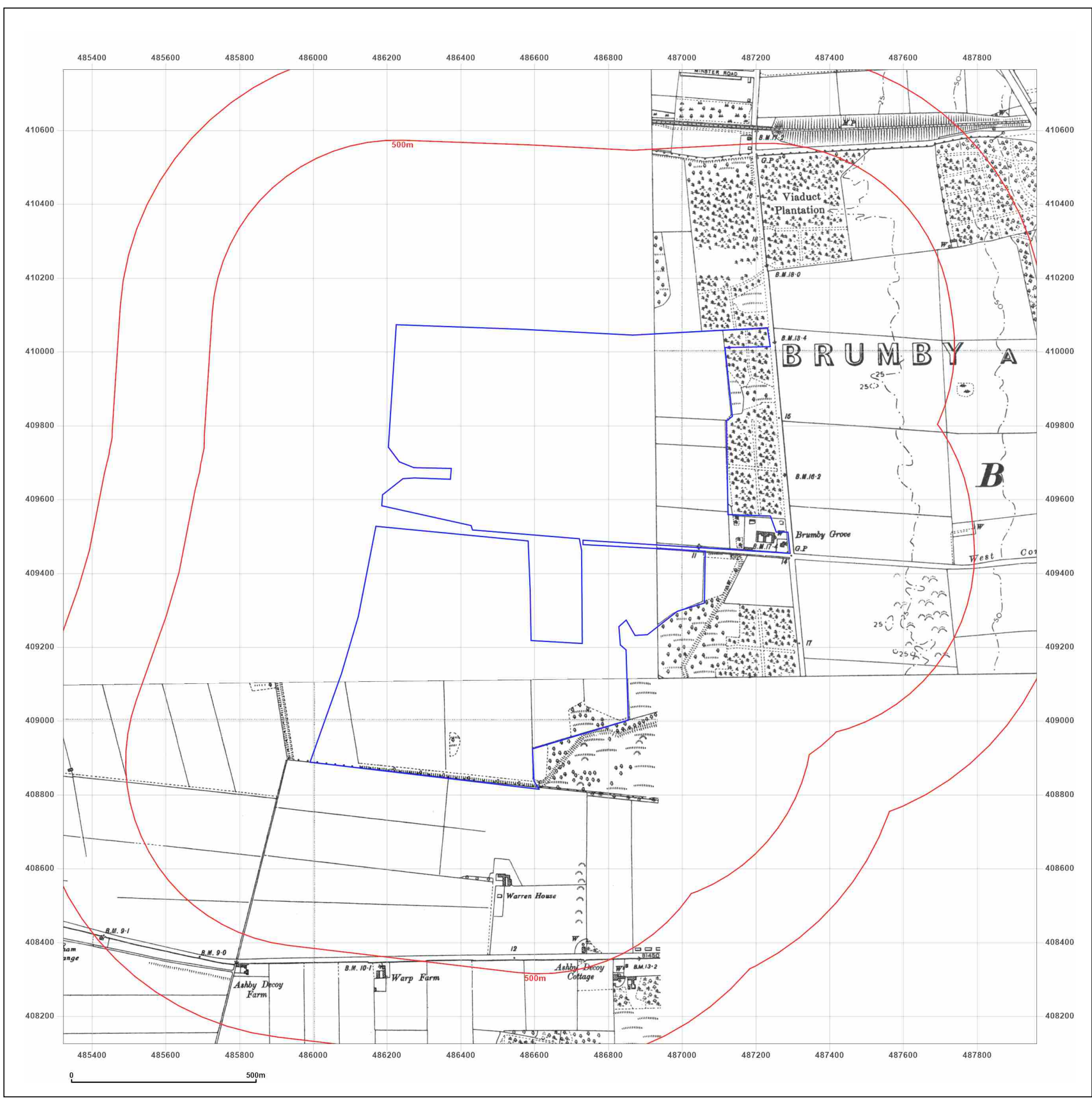


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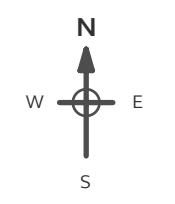
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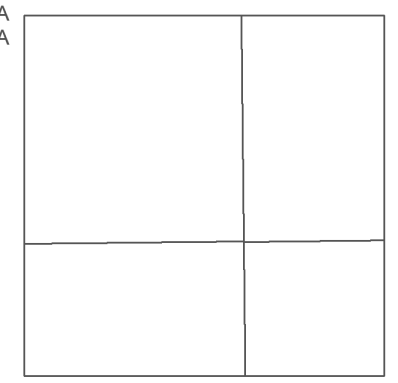
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 Edition N/A
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 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

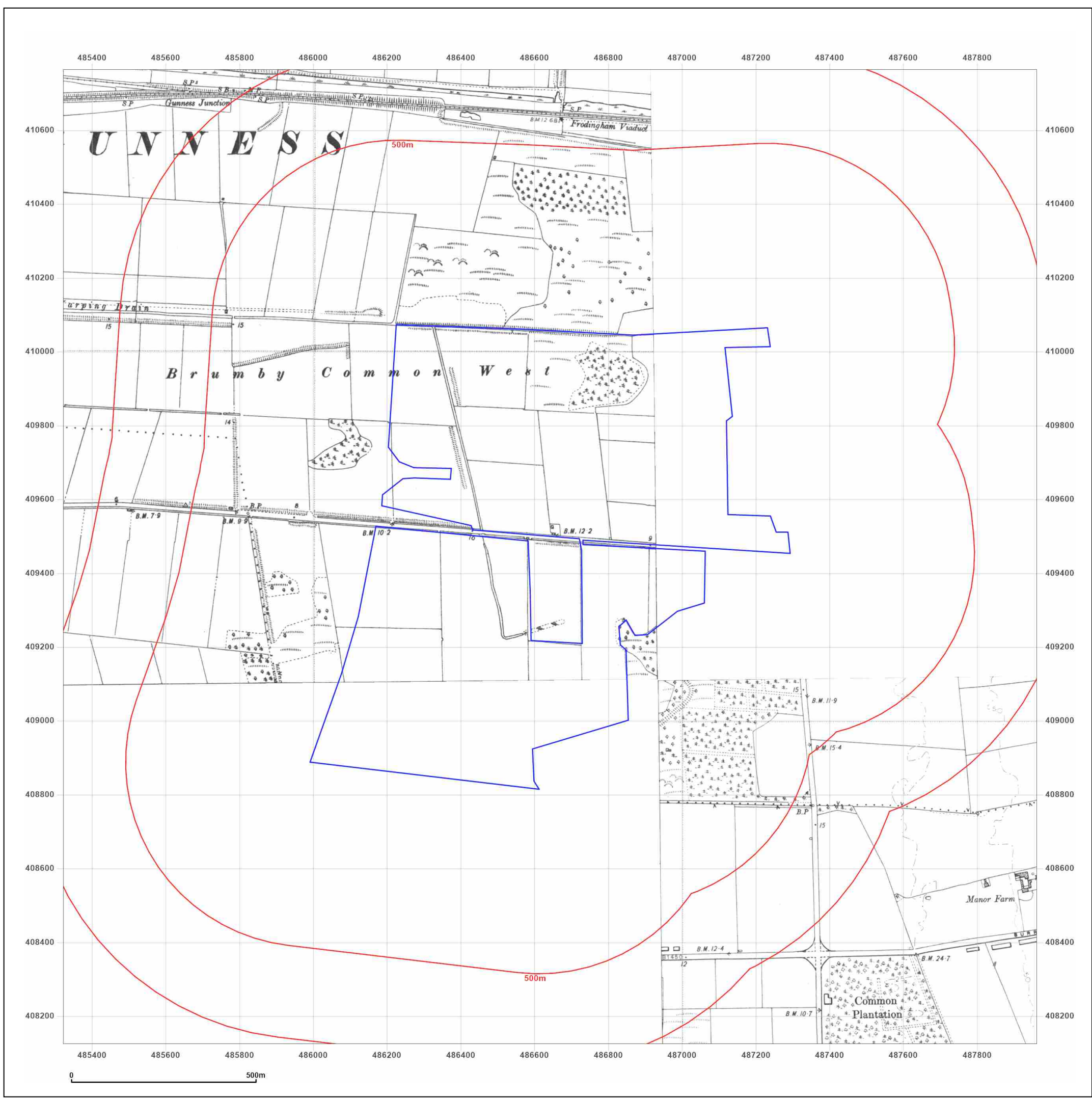


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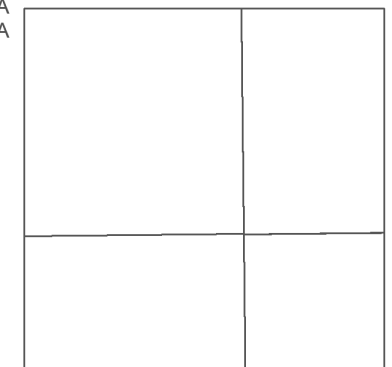
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Scale: 1:10,560

Printed at: 1:10,560



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 Edition 1948
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 Revised 1948
 Edition 1948
 Copyright N/A
 Levelled N/A

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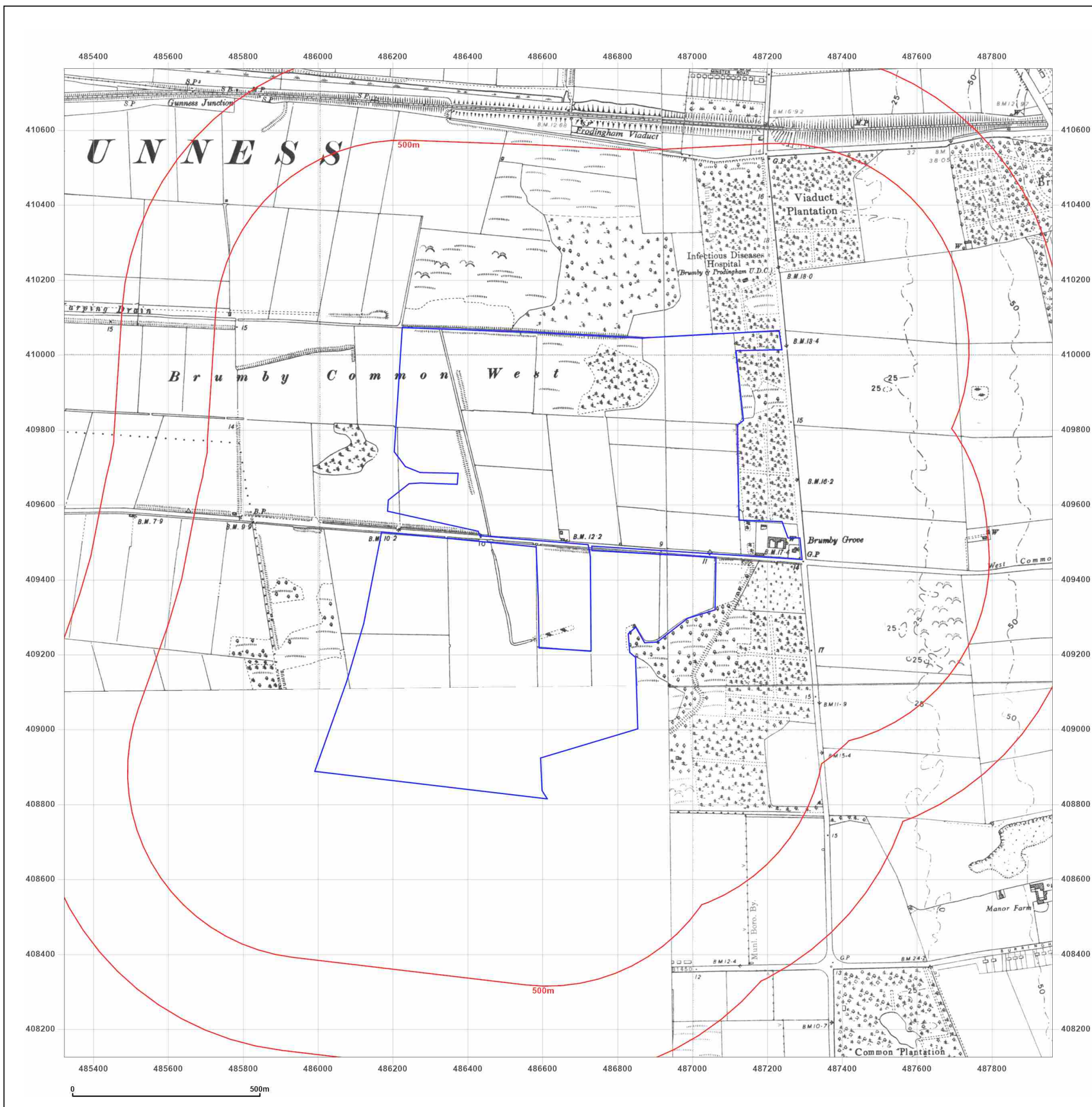


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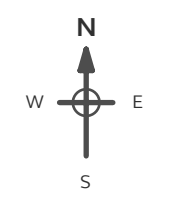
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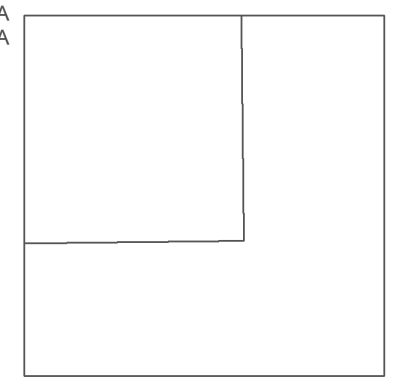
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 Edition N/A
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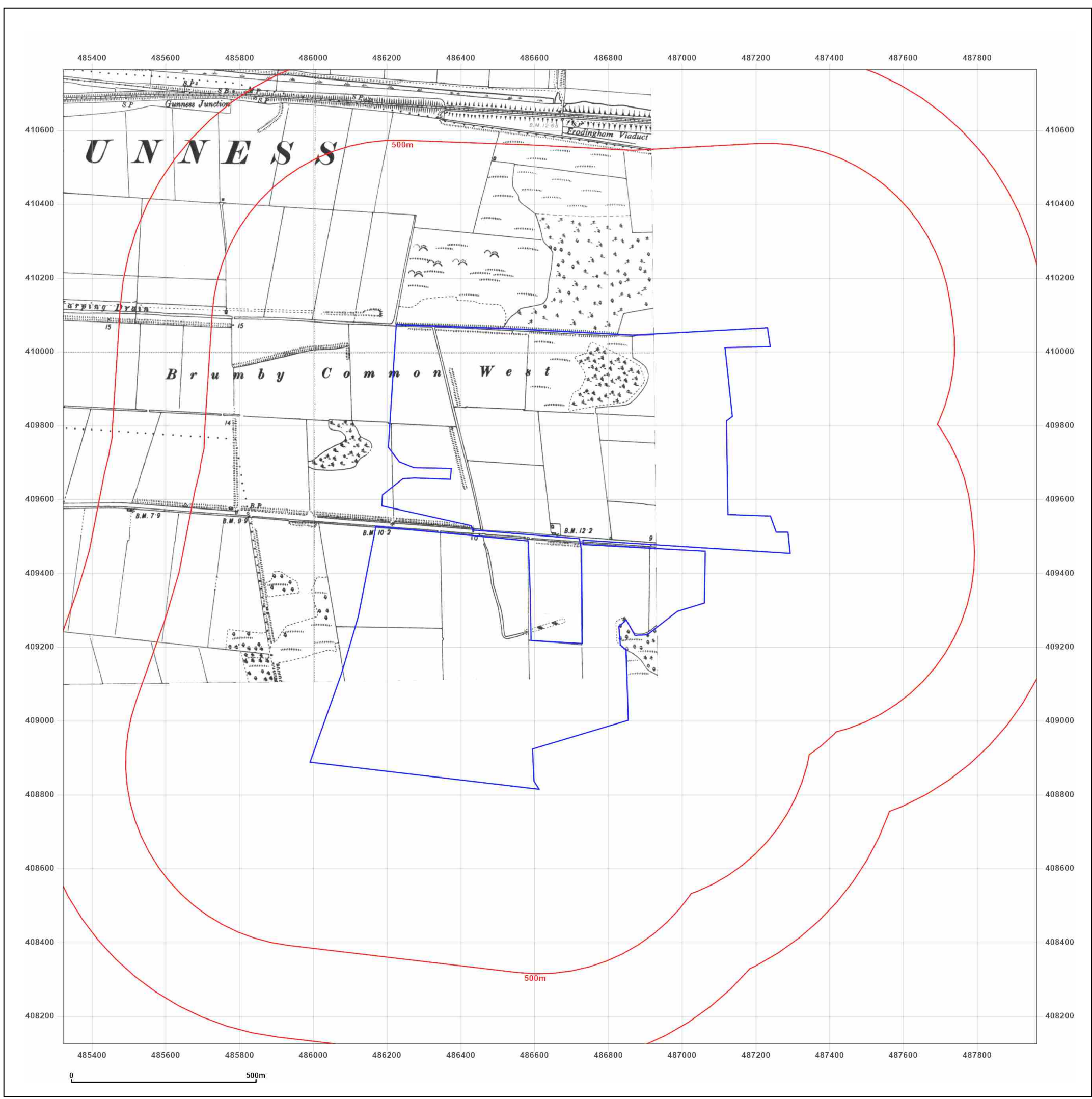


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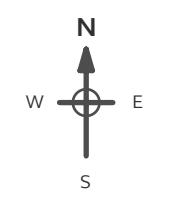
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Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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