

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on **page 78**

ID	Location	Name	Data source
-	1801m NE	Chesham Woods	Natural England
-	1841m SE	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

10.8 Biosphere Reserves

Records within 2000m**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

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

10.9 Forest Parks

Records within 2000m**0**

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

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

10.11 Green Belt

Records within 2000m

6

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

Features are displayed on the Environmental designations map on **page 78**

ID	Location	Name	Local Authority name
1	1169m SW	Merseyside and Greater Manchester	Bury
-	1397m E	Merseyside and Greater Manchester	Rochdale
-	1448m E	Merseyside and Greater Manchester	Bury
-	1769m SE	Merseyside and Greater Manchester	Bury
-	1779m W	Merseyside and Greater Manchester	Bury
-	1853m NE	Merseyside and Greater Manchester	Bury

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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



status of 'Possible' having been identified for potential adoption under the framework.

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

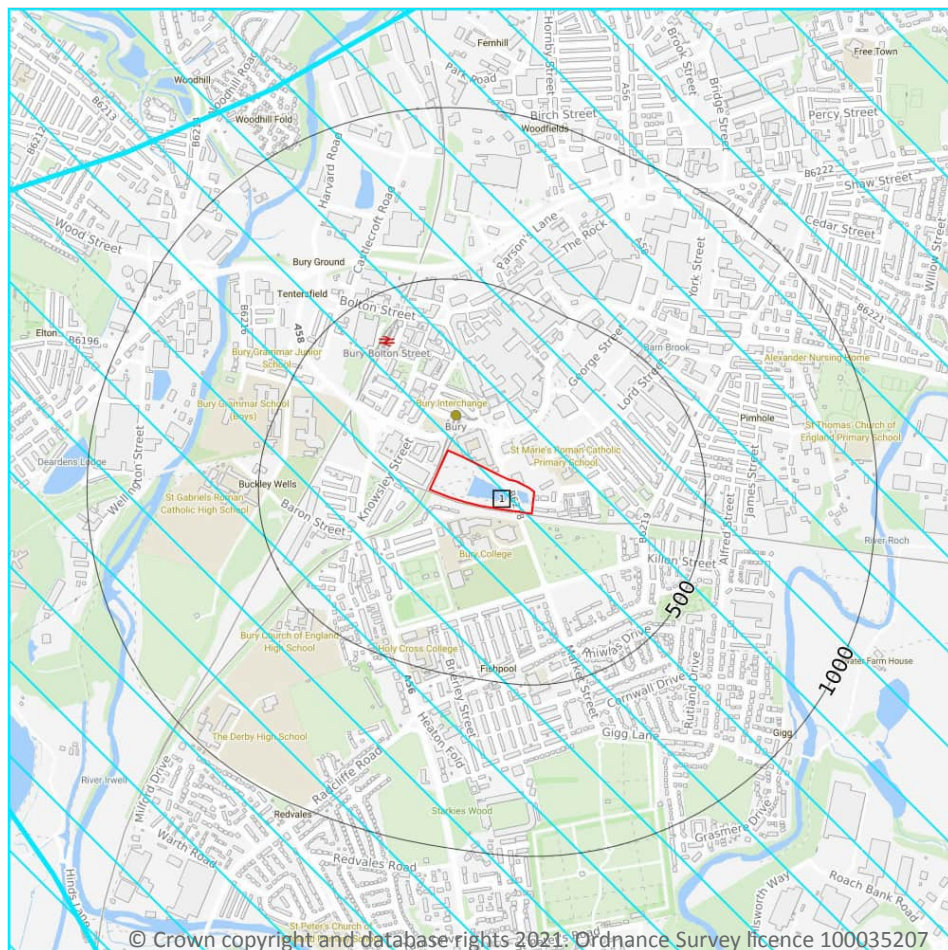
Records within 2000m

0

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

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

SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 83**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.



This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

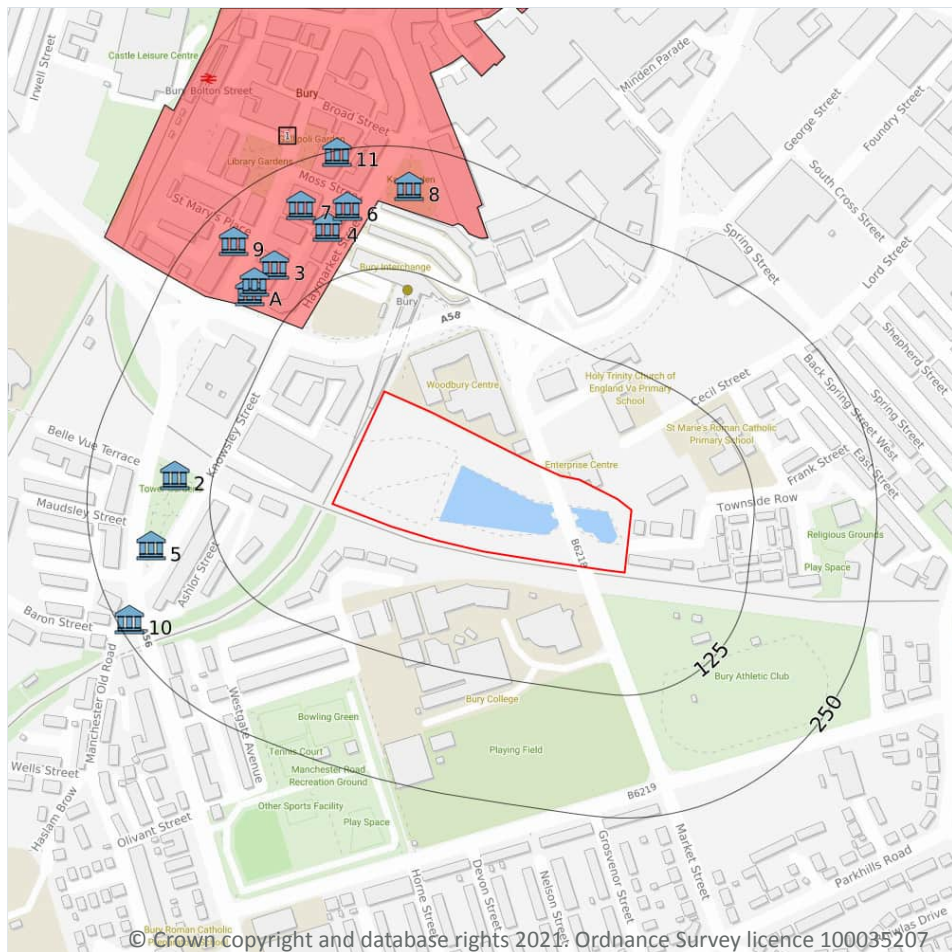
0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

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

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

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

11.4 Listed Buildings

Records within 250m

12

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 85**

ID	Location	Name	Grade	Reference Number	Listed date
2	163m W	Clock Tower, Whitehead Or Tower Gardens, East, Bury, BL9	II	1067232	29/01/1985
A	171m NW	3, Manchester Road, East, Bury, BL9	II	1356843	29/01/1985
3	171m NW	Church Of Saint Marie, East, Bury, BL9	II	1356824	10/11/1951
A	173m NW	1, Manchester Road, East, Bury, BL9	II	1067231	29/01/1985
4	177m N	Art Picture House, East, Bury, BL9	II	1250829	12/04/1995
5	190m W	Lancashire Fusiliers Boer War Memorial, East, Bury, BL9	II	1440258	12/07/2017



ID	Location	Name	Grade	Reference Number	Listed date
6	193m N	Athenaeum Club, East, Bury, BL9	II	1163355	29/01/1985
7	208m NW	Art Gallery And Library, East, Bury, BL9	II	1163708	29/01/1985
8	211m N	Kay Monument At Kay Gardens, East, Bury, BL9	II	1163636	29/01/1985
9	217m NW	2-14, Manchester Road, East, Bury, BL9	II	1067233	01/08/1977
10	238m SW	Drinking Fountain And Horse Trough, Redvales, Bury, BL9	II	1356806	29/01/1985
11	249m N	Bury School Of Arts And Crafts, East, Bury, BL9	II	1250802	21/06/1991

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

11.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on **page 85**

ID	Location	Name	District	Date of designation
1	105m NW	Bury Town Centre	Bury	1978

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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



11.7 Registered Parks and Gardens

Records within 250m

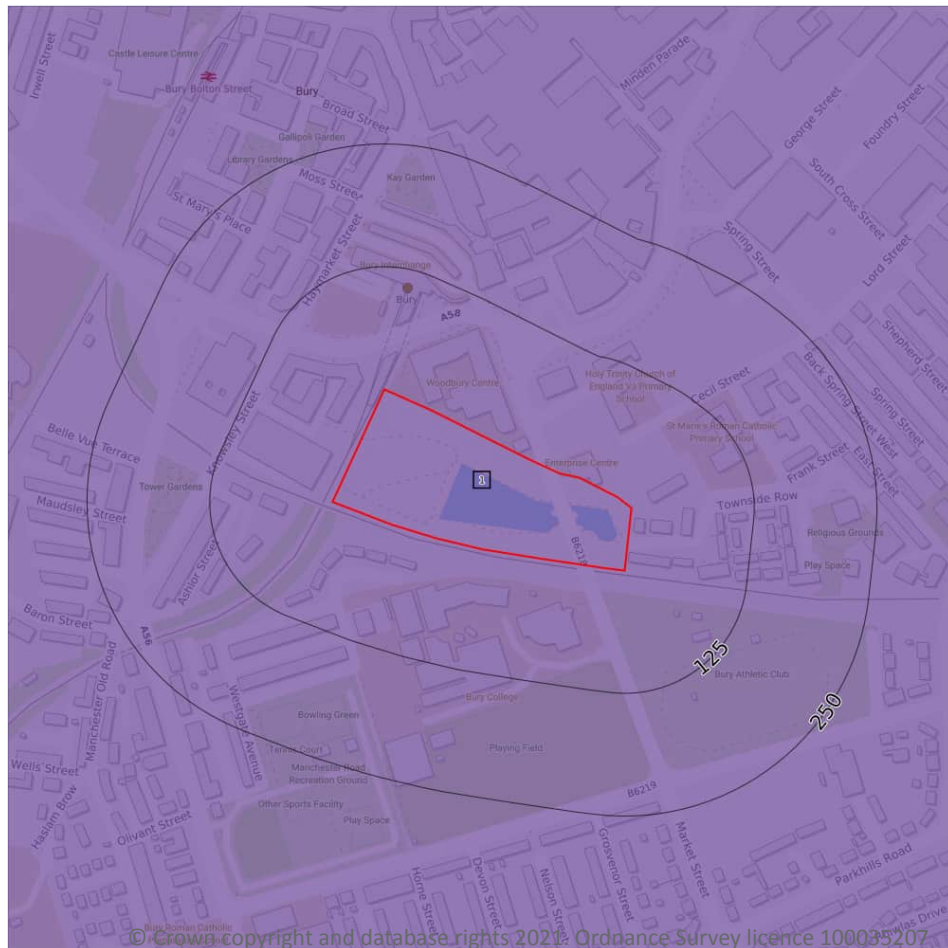
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 89**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m**0**

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

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

12.3 Tree Felling Licences

Records within 250m**0**

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m**0**

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

This data is sourced from Natural England.

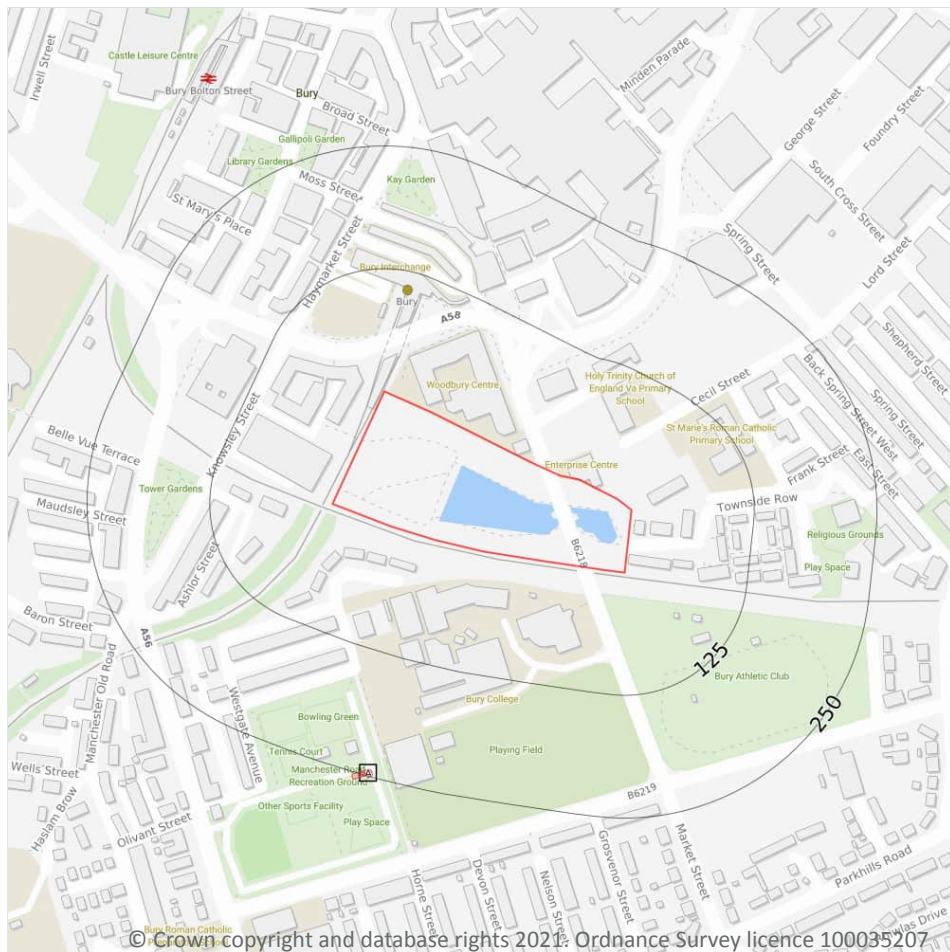
12.5 Countryside Stewardship Schemes

Records within 250m**0**

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

This data is sourced from Natural England.

13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

3

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

Features are displayed on the Habitat designations map on **page 91**

ID	Location	Main Habitat	Other habitats
A	243m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	248m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	248m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

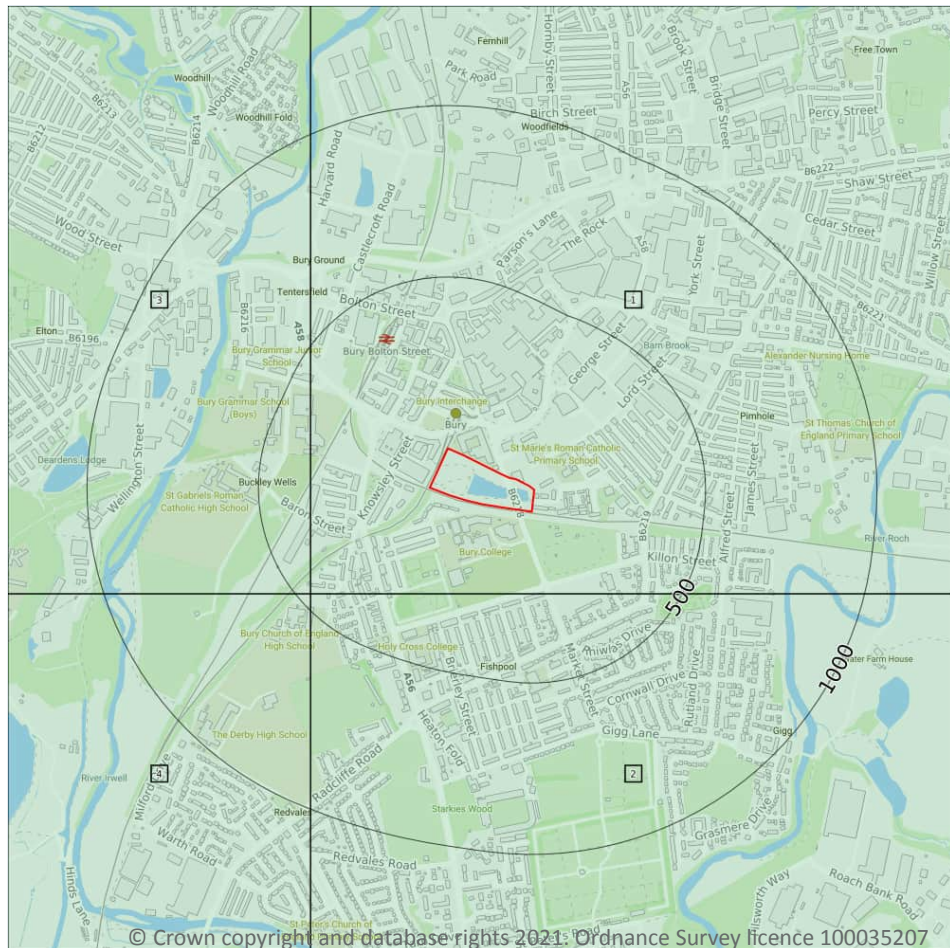
Records within 250m**0**

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on **page 93**

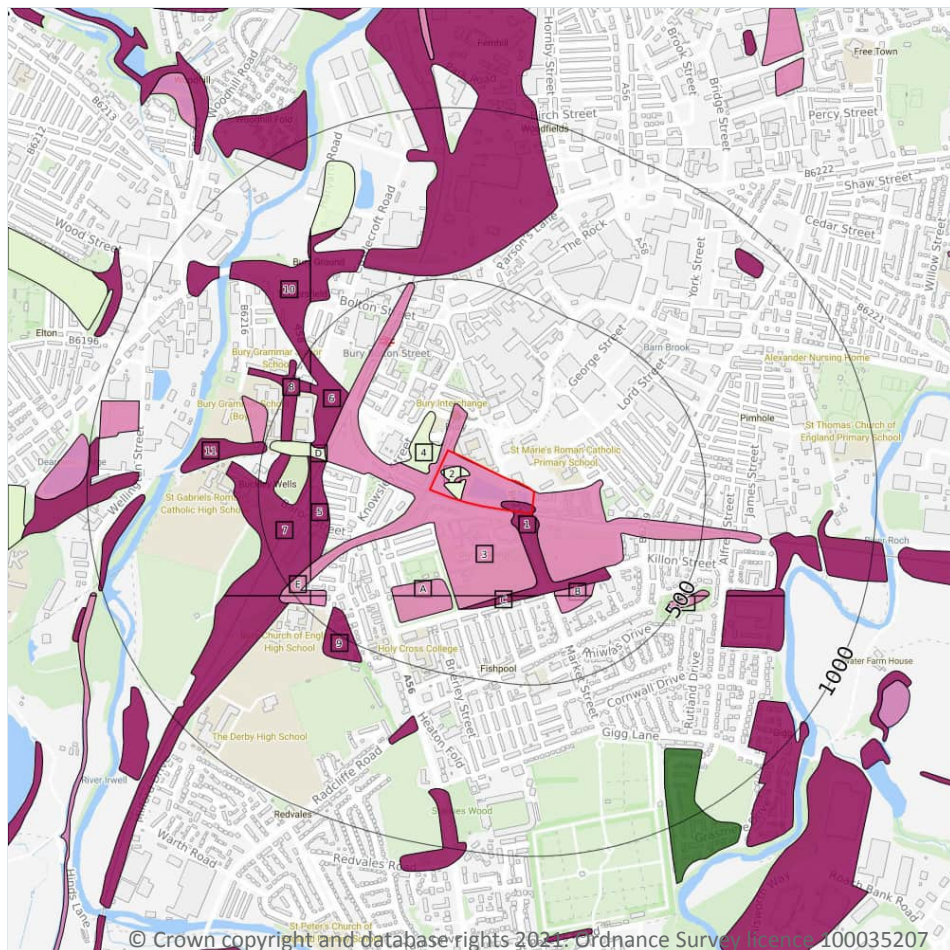
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81SW
2	240m S	Full	Full	Full	Full	SD80NW
3	348m W	Full	Full	Full	Full	SD71SE
4	466m SW	Full	Full	Full	Full	SD70NE



This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

24

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 95**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	15m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit



ID	Location	LEX Code	Description	Rock description
A	236m S	WGR-VOID	Worked Ground (Undivided)	Void
B	236m S	WGR-VOID	Worked Ground (Undivided)	Void
C	240m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	249m S	WGR-VOID	Worked Ground (Undivided)	Void
B	249m S	WGR-VOID	Worked Ground (Undivided)	Void
A	276m S	WGR-VOID	Worked Ground (Undivided)	Void
5	301m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	313m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	330m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	348m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	361m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
E	411m SW	WGR-VOID	Worked Ground (Undivided)	Void
E	424m SW	WGR-VOID	Worked Ground (Undivided)	Void
8	428m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
E	433m SW	WGR-VOID	Worked Ground (Undivided)	Void
9	437m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	458m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
E	466m SW	WGR-VOID	Worked Ground (Undivided)	Void
F	476m SE	WGR-VOID	Worked Ground (Undivided)	Void
11	489m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



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— Site Outline

Search buffers in metres (m)

 Landslip (10k)

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

Records within 500m	19
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Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 97**


 Contact us with any questions at:
info@groundsurre.com
 08444 159 000

Date: 15 December 2021
 

ID	Location	LEX Code	Description	Rock description
4	49m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
5	240m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	261m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
7	267m E	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
8	282m S	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
9	320m S	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
10	330m NW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
11	348m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
12	397m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
13	438m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	460m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
15	466m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
16	466m SW	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
17	490m W	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
18	500m SW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
19	500m W	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

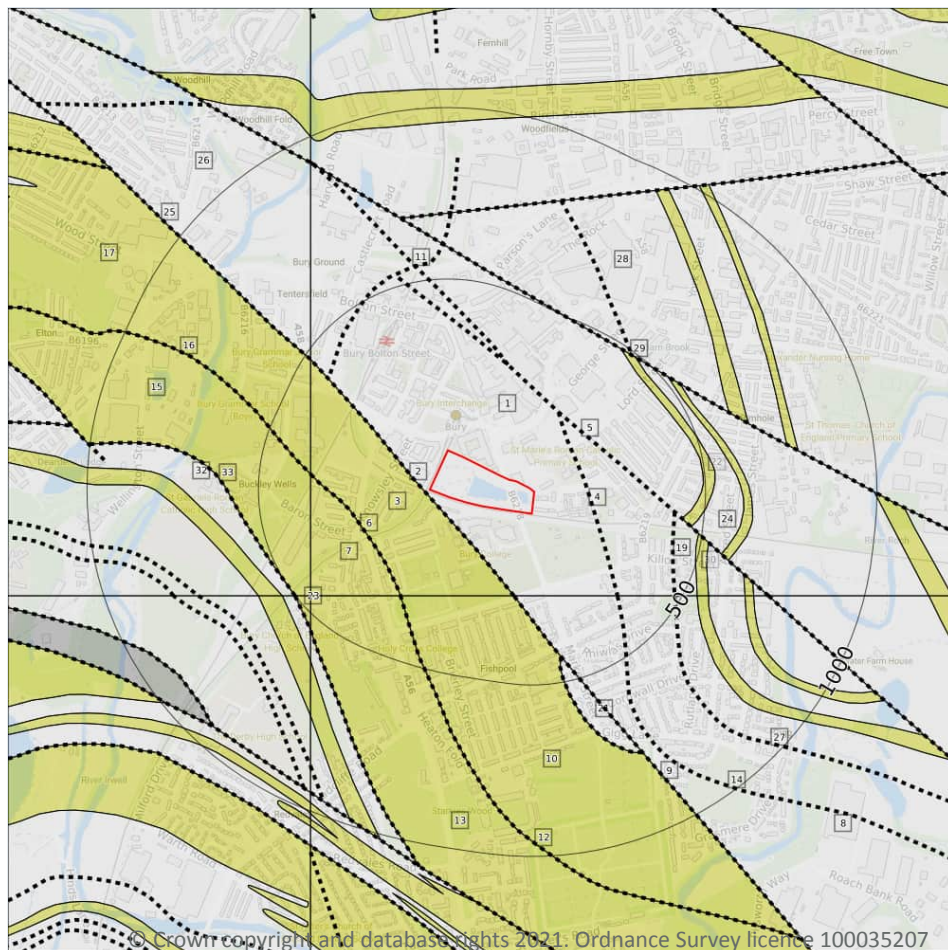
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Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

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

16

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 99**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	15m SW	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
7	225m SW	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
8	240m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	244m S	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
13	320m S	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
15	348m W	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
17	351m W	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
21	426m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	437m E	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
23	466m SW	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
24	466m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	481m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	486m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
30	489m E	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
32	500m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

17

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 99**

ID	Location	Category	Description
2	15m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
4	148m NE	ROCK	Coal seam, inferred
5	223m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side

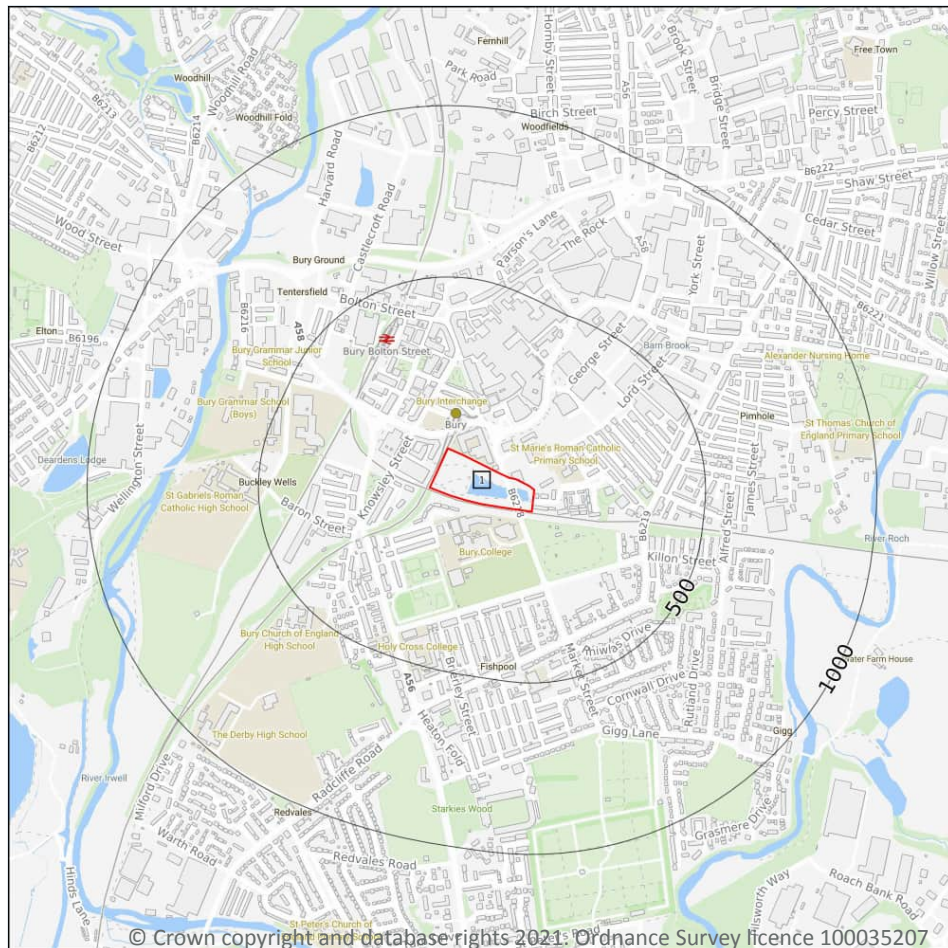


ID	Location	Category	Description
6	225m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
9	244m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	300m NE	ROCK	Coal seam, inferred
12	320m S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
14	347m SE	ROCK	Coal seam, inferred
16	351m W	ROCK	Coal seam, inferred coincident with bedrock geology boundary
18	410m NW	LANDFORM	Buried channel or valley margin
19	414m E	FOSSIL_HORIZON	Fossil horizon, mussel band
20	426m S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
25	481m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
27	481m SE	FOSSIL_HORIZON	Fossil horizon, mussel band
29	486m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
31	490m NE	ROCK	Coal seam, inferred
33	500m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary

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.

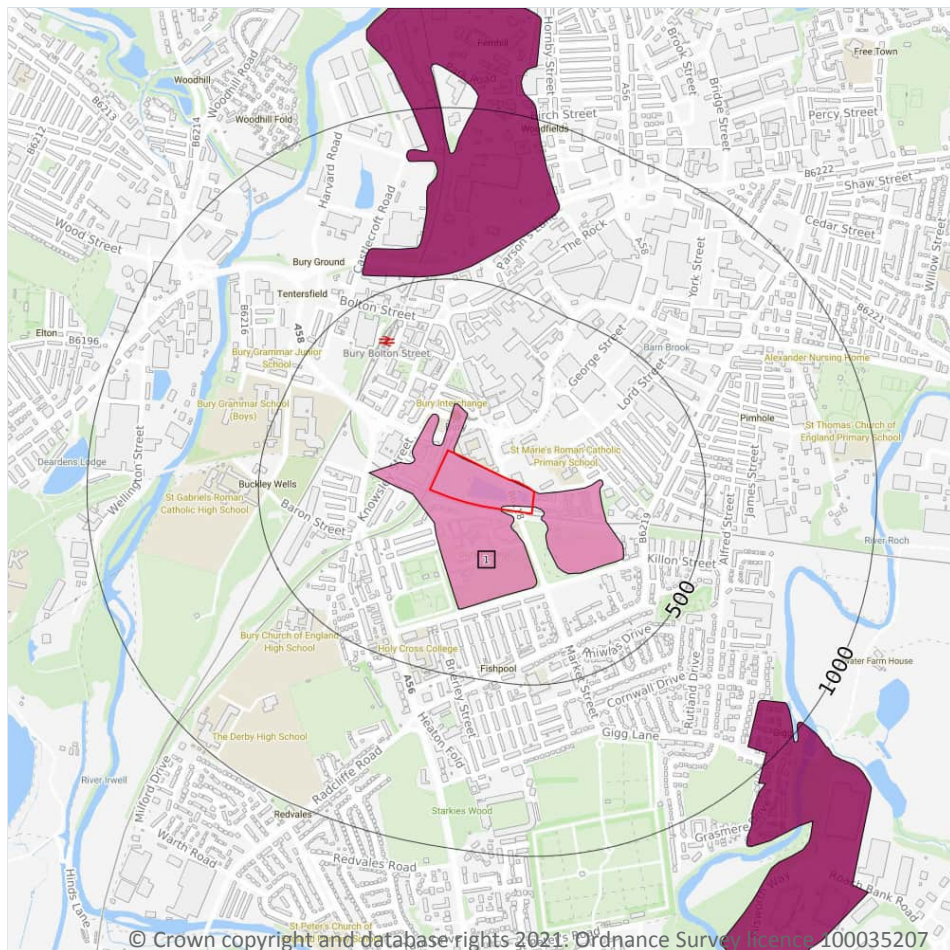
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability. Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 103**

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

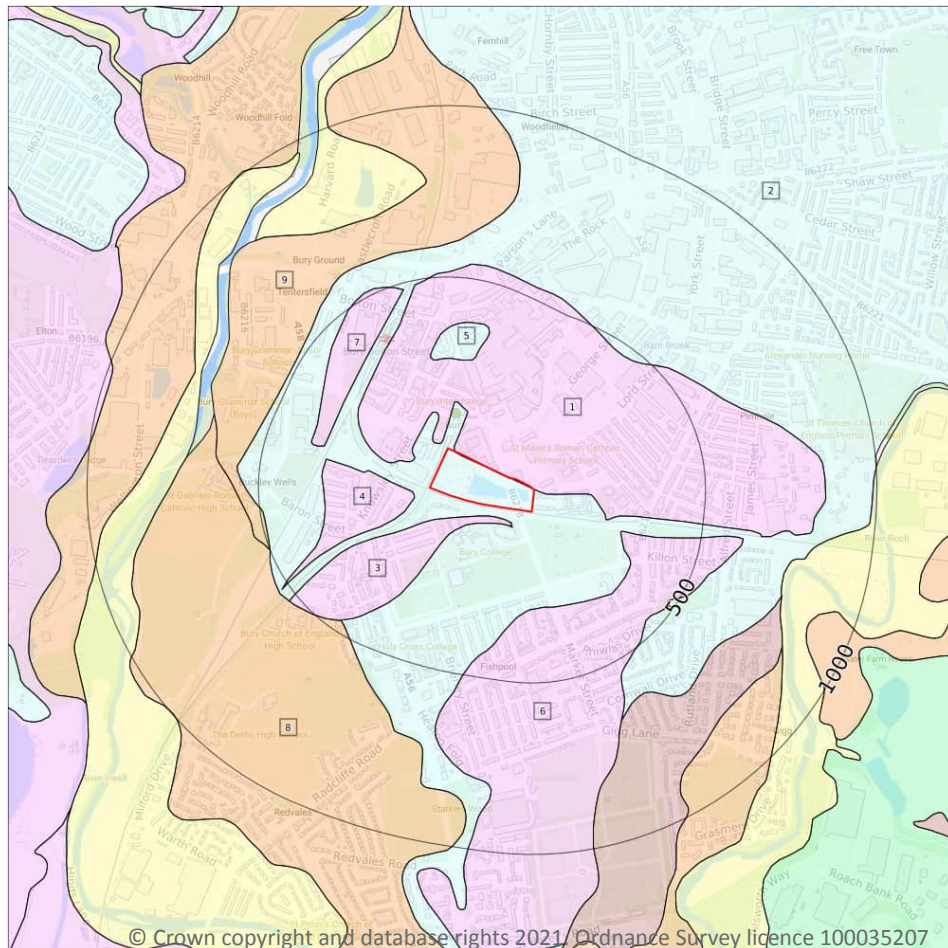
0

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

9

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 105**

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	31m S	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	50m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
5	260m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	266m E	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
7	330m NW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
8	466m SW	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
9	490m W	RTD2-XSV	RIVER TERRACE DEPOSITS, 2	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

3

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Mixed	High	Low
31m SW	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

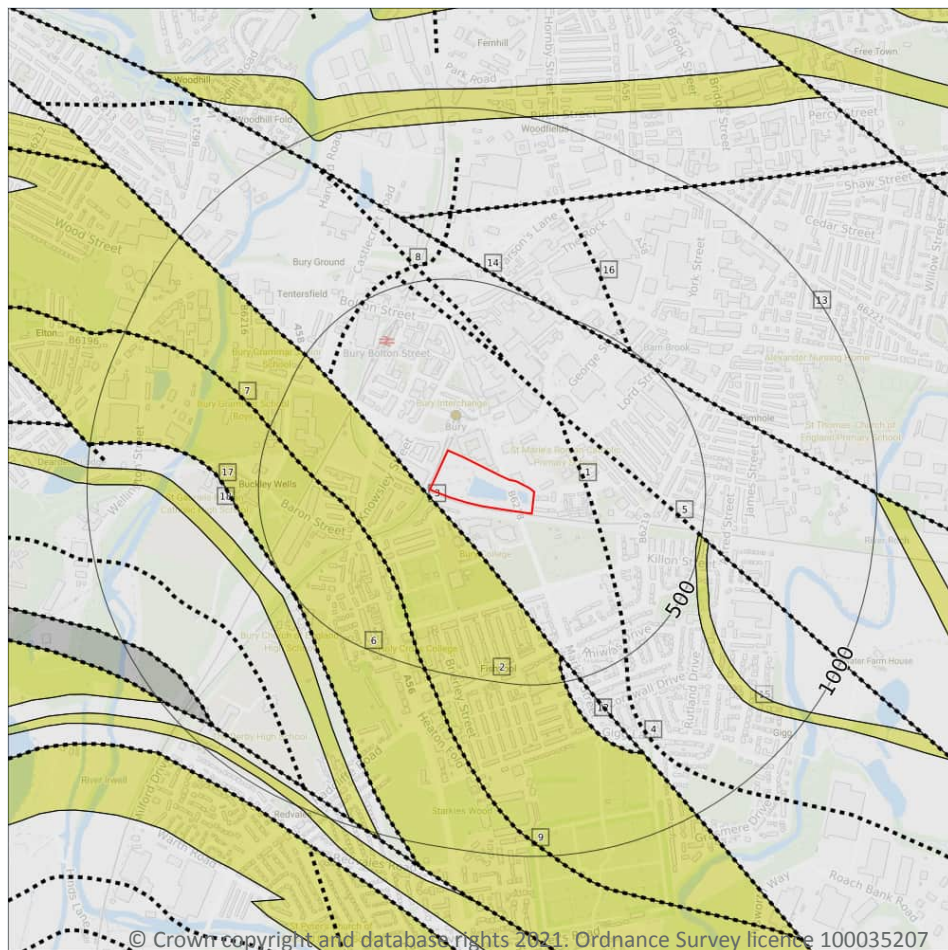
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

7

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 108**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	15m SW	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
6	225m SW	TRBR-SDST	TRENCHBONE ROCK - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
12	426m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	486m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	489m E	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
18	500m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
15m W	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	11
----------------------------	-----------

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 108**

ID	Location	Category	Description
3	15m SW	FAULT	Fault, inferred
4	148m NE	ROCK	Coal seam, inferred
5	223m NE	FAULT	Fault, inferred
7	225m SW	ROCK	Coal seam, inferred
8	299m NE	ROCK	Coal seam, inferred

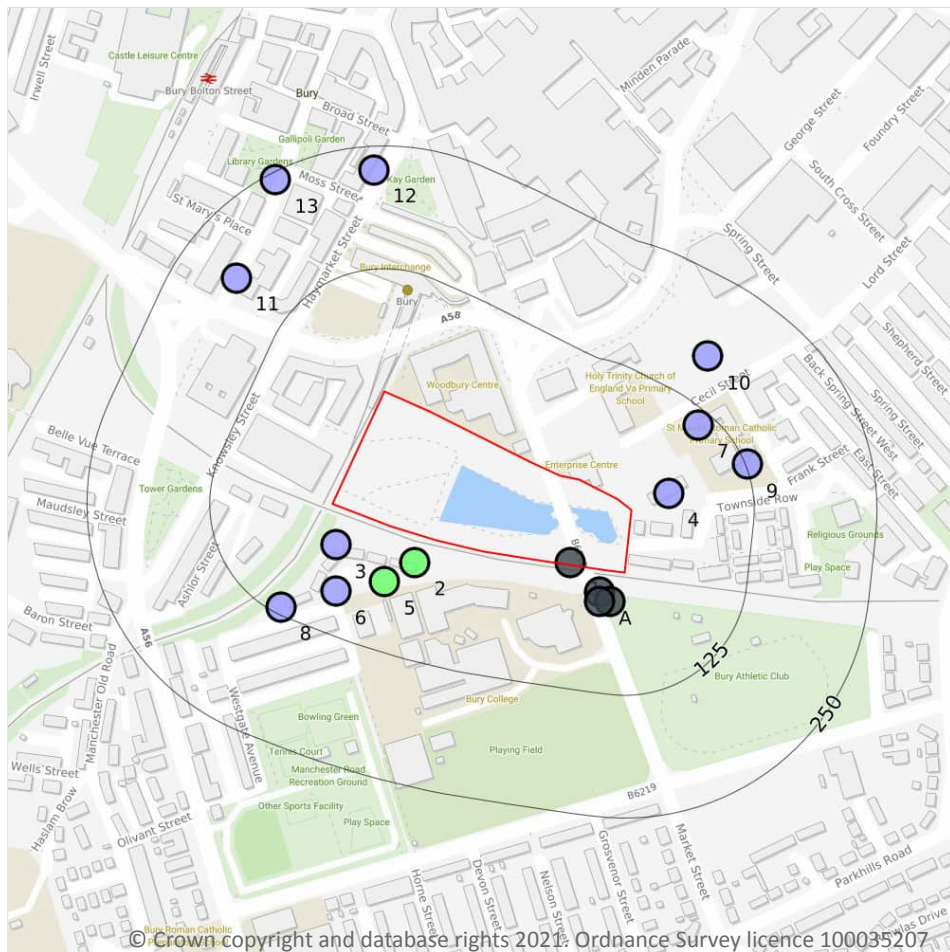


ID	Location	Category	Description
9	320m S	ROCK	Coal seam, inferred
10	410m NW	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
11	426m S	ROCK	Coal seam, inferred
14	486m NE	FAULT	Fault, inferred
16	490m NE	ROCK	Coal seam, inferred
17	500m SW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



- Site Outline**
- Search buffers in metres (m)**
- Confidential
 - 0 - 10m
 - 10 - 30m
 - 30m+
 - Unknown

16.1 BGS Boreholes

Records within 250m

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 111**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	380590 410250	MARKET STREET BRIDGE BURY METRO TP2	-	Y	N/A
A	23m S	380620 410220	MARKET STREET BRIDGE BURY METRO TP1	-	Y	N/A

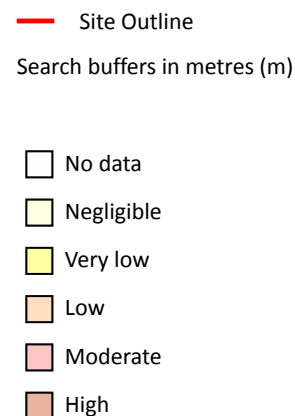
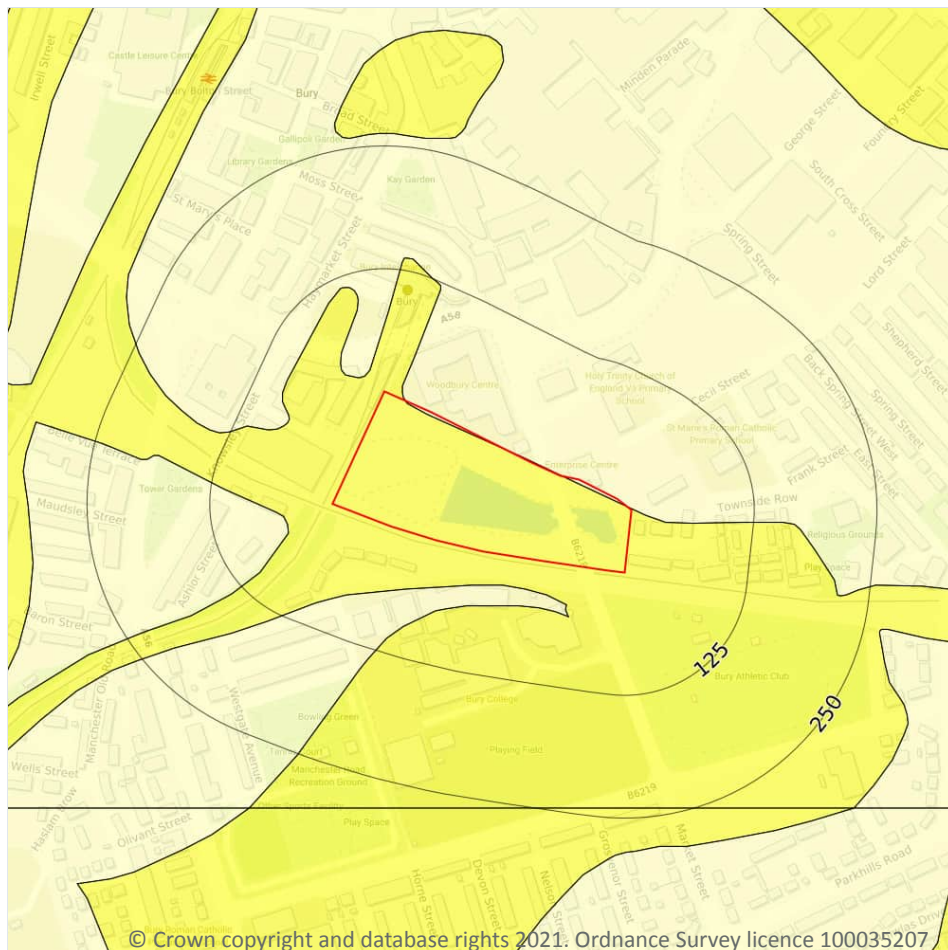


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	28m S	380432 410250	SOUTH BANK ROAD BURY 2	11.08	N	19441429
A	32m S	380630 410210	MARKET STREET BRIDGE BURY METRO BH2	-	Y	N/A
A	33m S	380620 410210	MARKET STREET BRIDGE BURY METRO BH1	-	Y	N/A
3	38m S	380351 410268	SOUTH BANK ROAD BURY 3	8.25	N	19441430
4	41m NE	380690 410320	THE MOSSES. 53	9.14	N	30355
5	55m S	380401 410231	SOUTH BANK ROAD BURY 5	11.2	N	19441434
6	82m S	380351 410221	SOUTH BANK ROAD BURY 4	7.43	N	19441432
7	110m NE	380720 410390	THE MOSSES. 51	9.22	N	30353
8	117m SW	380295 410205	SOUTH BANK ROAD BURY 1	5.0	N	19441428
9	127m E	380770 410350	THE MOSSES. 52	9.6	N	30354
10	172m NE	380730 410460	THE MOSSES. 50	9.53	N	30352
11	190m NW	380250 410540	BURY TOWN CENTRE SEWERS BH8	7.5	N	30653
12	226m N	380390 410650	BURY TOWN CENTRE SEWERS BH4	4.1	N	30649
13	243m NW	380290 410640	BURY TOWN CENTRE SEWERS BH7	6.2	N	30652

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 113**

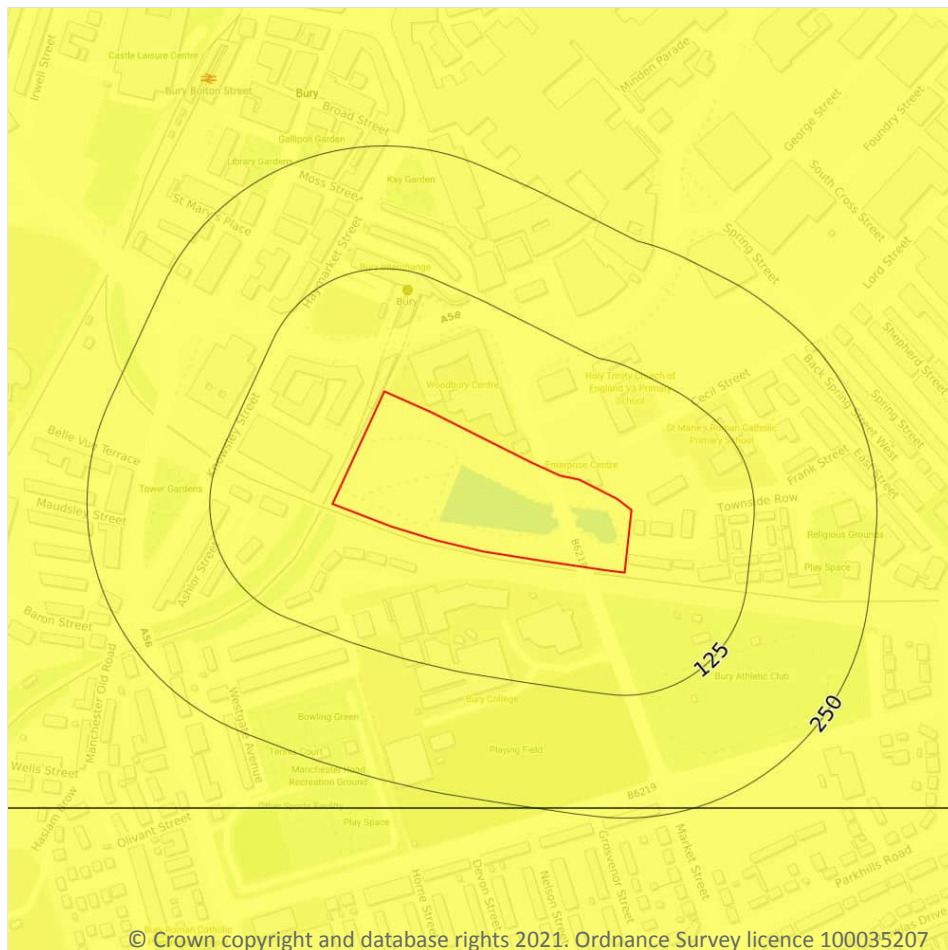
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
31m S	Negligible	Ground conditions predominantly non-plastic.



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

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.

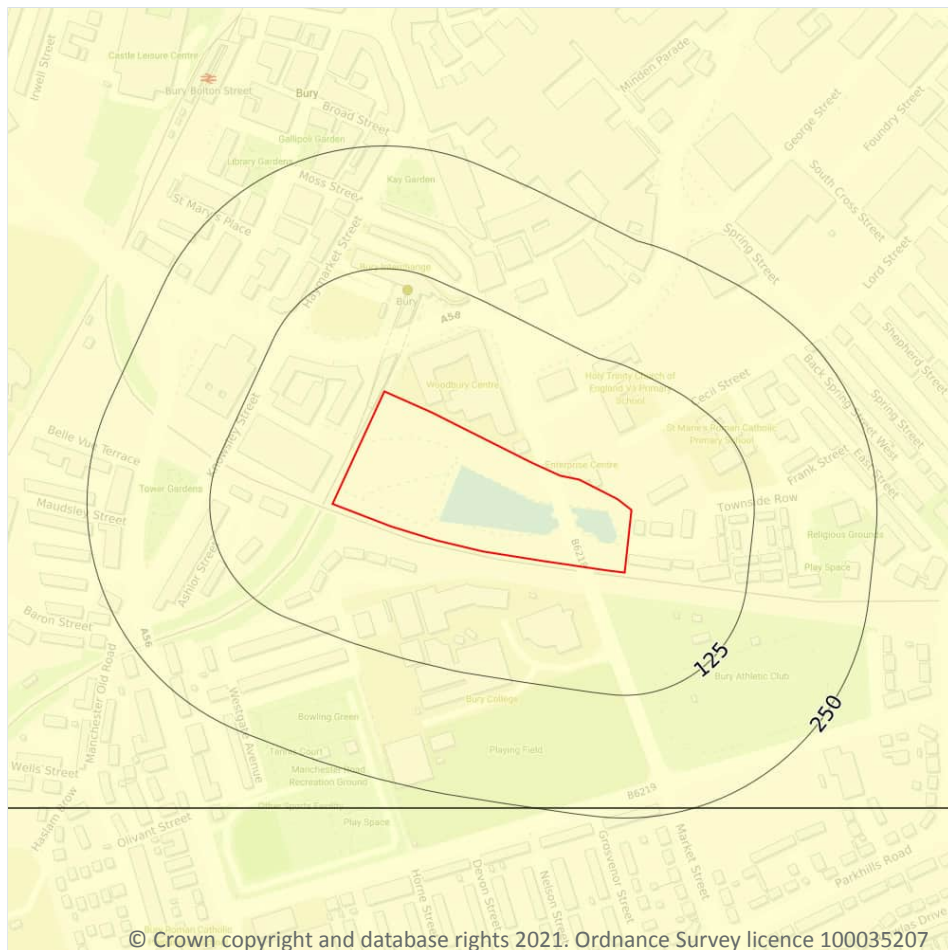
Features are displayed on the Natural ground subsidence - Running sands map on **page 115**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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

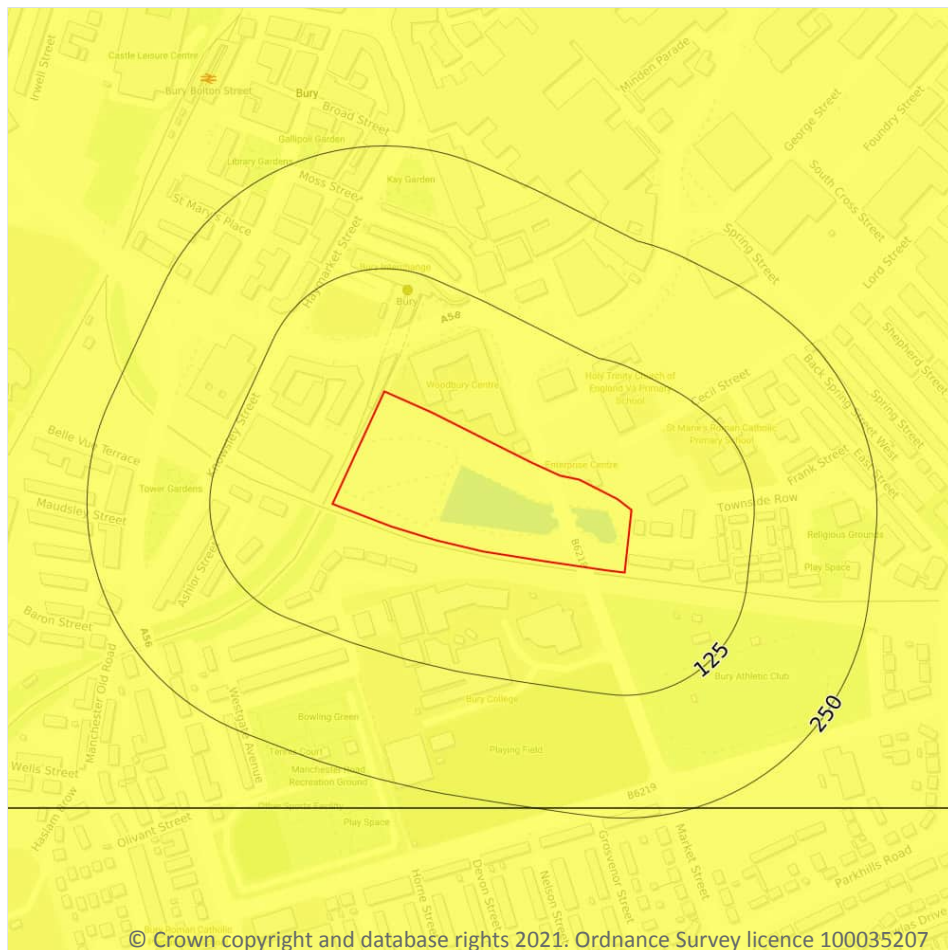
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 116**

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.

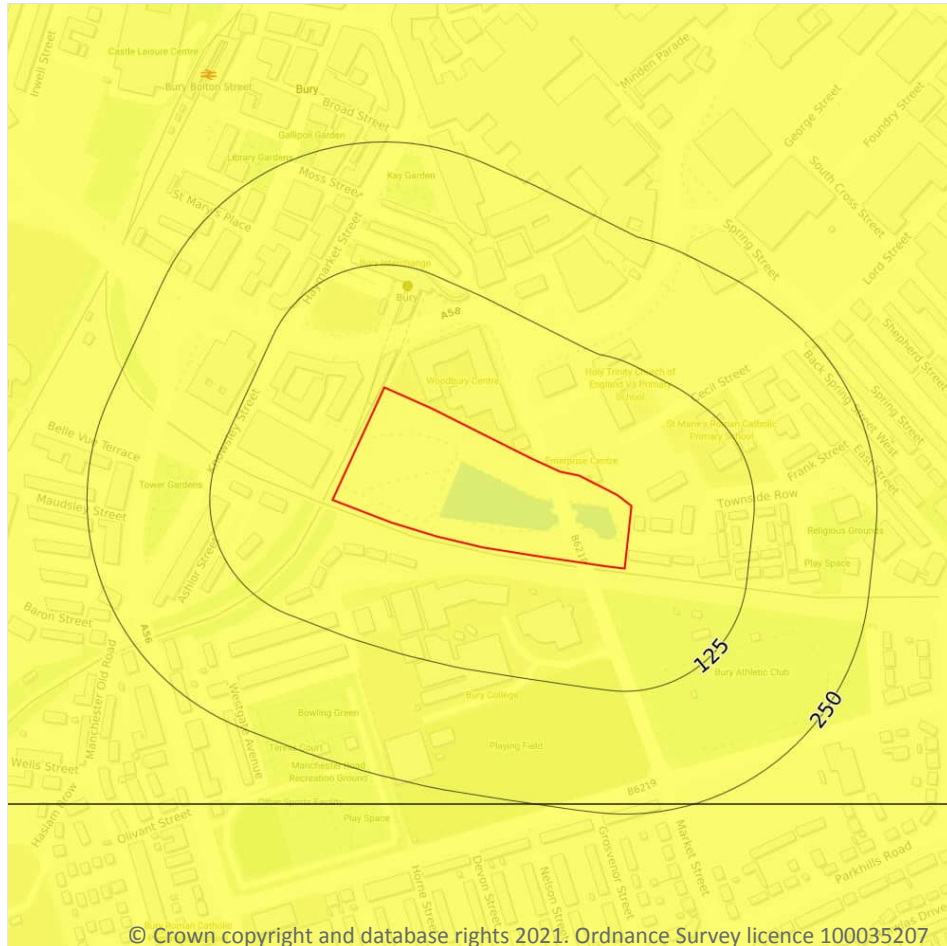
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 117**

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



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— 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.

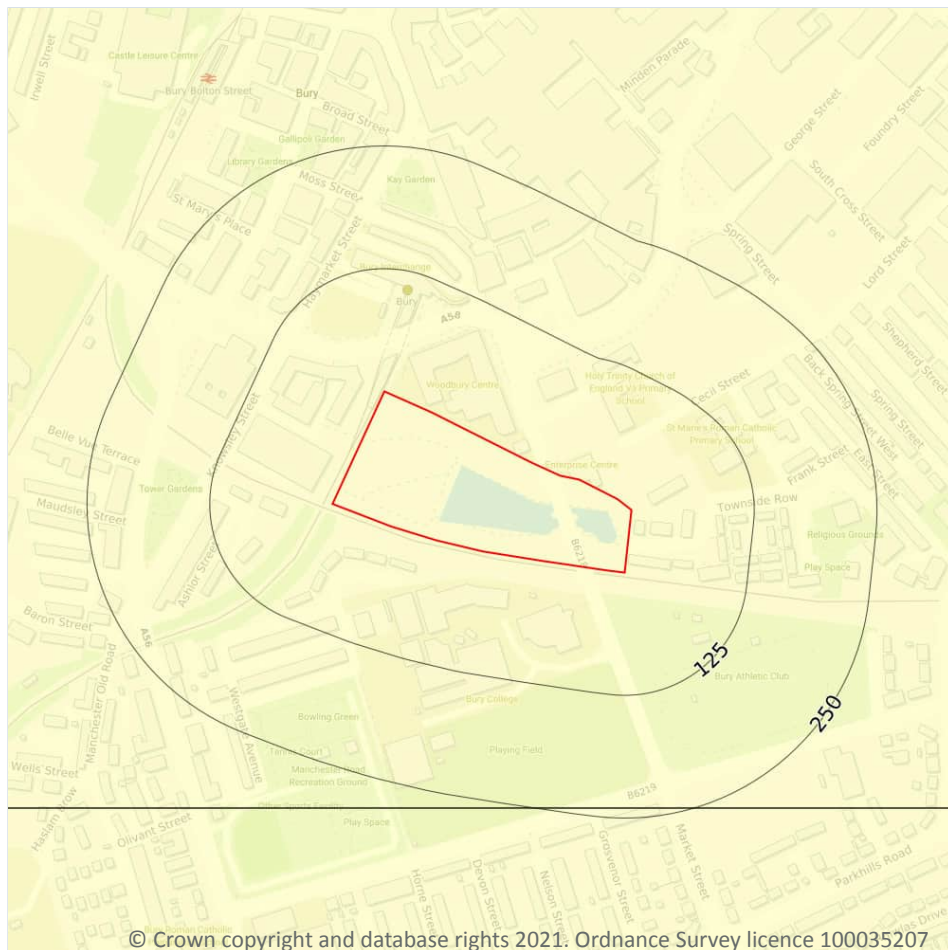
Features are displayed on the Natural ground subsidence - Landslides map on **page 118**

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 119**

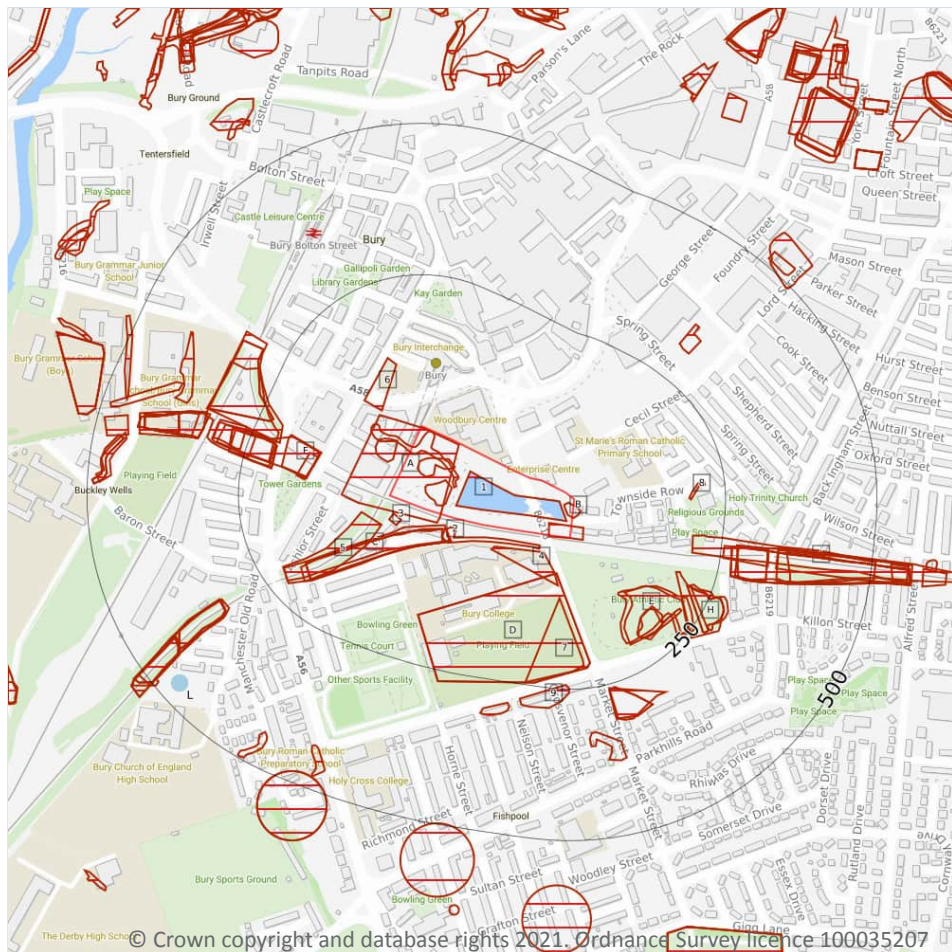
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

44

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 121**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Pond	1983	1:10000
A	On site	Cuttings	1967	1:10560
A	On site	Unspecified Ground Workings	1983	1:10000
A	On site	Unspecified Ground Workings	1983	1:10000
A	On site	Unspecified Ground Workings	1851	1:10560
B	On site	Unspecified Heap	1983	1:10000
B	On site	Cuttings	1851	1:10560
C	16m S	Cuttings	1967	1:10560
2	16m S	Unspecified Ground Workings	1983	1:10000
A	20m NW	Unspecified Pit	1983	1:10000
C	20m S	Cuttings	1956	1:10560
C	23m S	Cuttings	1938	1:10560
C	23m S	Cuttings	1928	1:10560
C	23m S	Cuttings	1908	1:10560
3	25m S	Reservoir	1891	1:10560
4	29m S	Unspecified Pit	1983	1:10000
5	48m SW	Cuttings	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
D	61m S	Unspecified Pit	1956	1:10560
D	61m S	Unspecified Pit	1967	1:10560
6	71m NW	Cuttings	1891	1:10560
7	101m S	Unspecified Pit	1983	1:10000
E	121m SE	Refuse Heap	1938	1:10560
E	127m SE	Sand Pit	1956	1:10560
F	132m NW	Cuttings	1967	1:10560
F	134m NW	Cuttings	1908	1:10560
G	134m NW	Cuttings	1983	1:10000
E	174m SE	Unspecified Ground Workings	1928	1:10560
E	176m SE	Refuse Heap	1908	1:10560
H	184m E	Unspecified Pit	1908	1:10560
8	190m E	Unspecified Ground Workings	1956	1:10560
G	201m W	Cuttings	1938	1:10560
G	201m W	Cuttings	1928	1:10560
G	201m W	Cuttings	1908	1:10560
G	201m NW	Cuttings	1891	1:10560
I	201m E	Cuttings	1891	1:10560
G	205m W	Cuttings	1851	1:10560
G	207m W	Cuttings	1967	1:10560
H	210m E	Unspecified Pit	1928	1:10560
H	210m E	Unspecified Pit	1938	1:10560
H	214m E	Unspecified Ground Workings	1956	1:10560
G	227m NW	Cuttings	1956	1:10560
G	227m NW	Cuttings	1967	1:10560
G	241m W	Cuttings	1956	1:10560
9	243m S	Unspecified Pit	1908	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 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.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 121**

ID	Location	Mine Address	Mineral	Data source	Publisher
L	466m SW	Schofield Hey Quarry, Britannia Quarries, Lancashire	Firestone, Freestone, Hearthstone , Honestone, Ragstone, Sandstone, Scythestone , Silver Sand, Whetstone	CATALOGUE OF PLANS OF ABANDONED MINES (NON COAL)	-

This data is sourced from Stantec UK Ltd.

18.8 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.

18.9 Coal mining

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

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

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

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

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

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

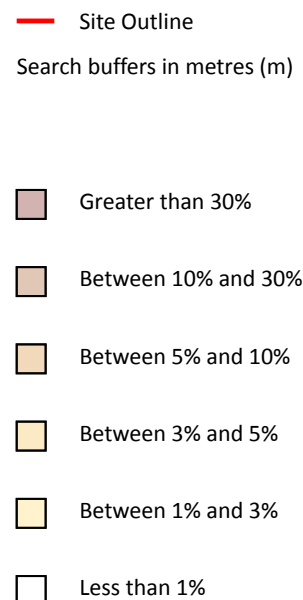
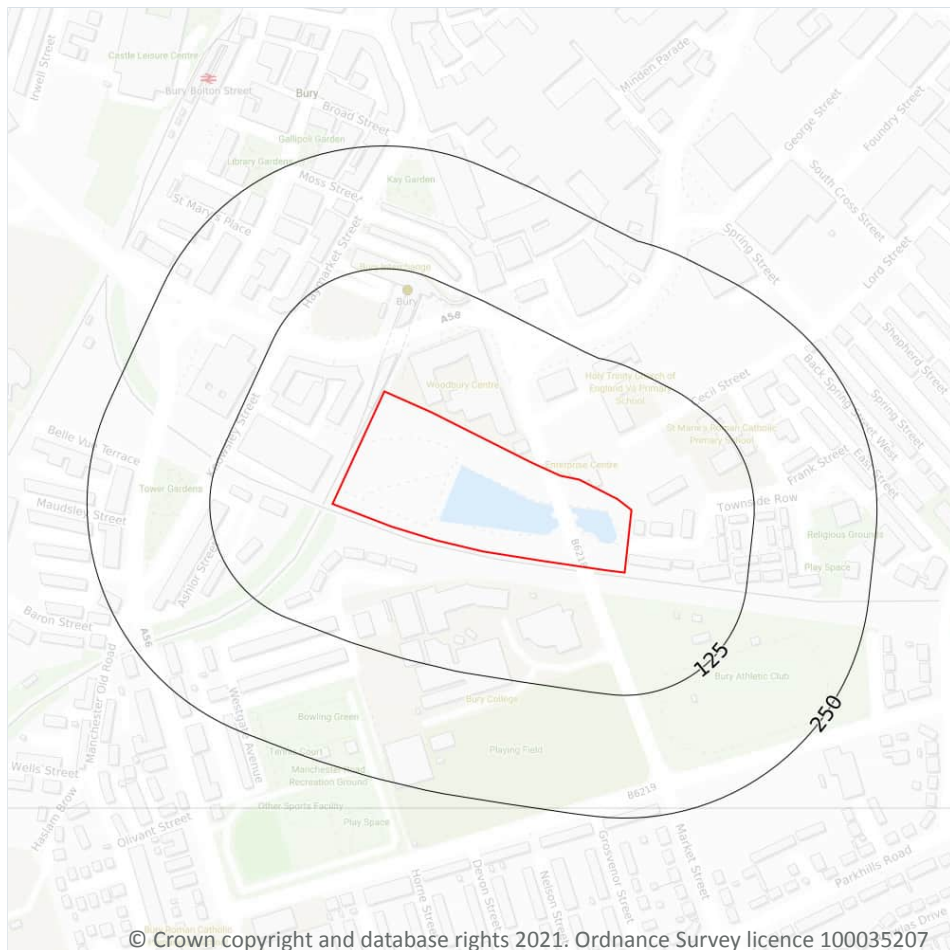
Records on site	0
-----------------	---

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

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



19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 127**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	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
37m W	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

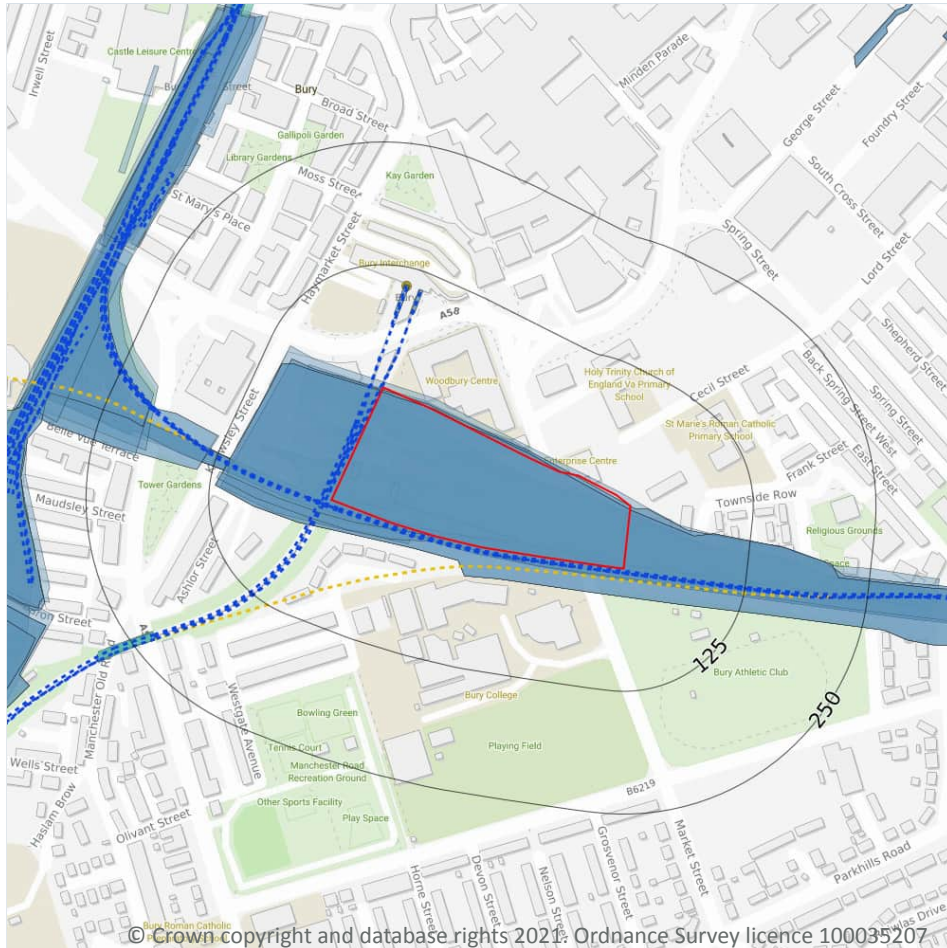
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

39

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 129**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1891	2500
On site	Railway Sidings	1910	2500
On site	Railway Sidings	1930	2500
On site	Railway Sidings	1937	2500
On site	Railway Sidings	1957	1250
On site	Railway	1893	-
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1891	10560
On site	Railway Sidings	1956	10560
On site	Railway Sidings	1851	10560
On site	Railway Sidings	1967	10560
On site	Railway Sidings	1928	10560
On site	Railway Sidings	1908	10560
1m S	Railway Sidings	1851	10560
76m N	Railway Sidings	1992	1250
76m N	Railway Sidings	1984	1250
80m N	Railway Sidings	1992	1250



Location	Land Use	Year of mapping	Mapping scale
80m N	Railway Sidings	1984	1250
131m NW	Railway Sidings	1956	10560
133m NW	Railway Sidings	1967	10560
134m E	Railway Sidings	1957	1250
196m W	Railway Sidings	1891	10560
205m W	Railway Sidings	1908	10560
206m W	Railway Sidings	1938	10560
206m W	Railway Sidings	1928	10560
217m W	Railway Sidings	1957	1250
225m SW	Tunnel	1957	2500
226m SW	Tunnel	1996	1250
226m SW	Tunnel	1994	1250
226m SW	Tunnel	1984	1250
226m SW	Tunnel	1957	1250
227m SW	Tunnel	1980	1250
229m SW	Tunnel	1910	2500
229m SW	Tunnel	1930	2500
229m SW	Tunnel	1937	2500
230m NW	Railway Sidings	1910	2500
231m NW	Railway Sidings	1930	2500
232m NW	Railway Sidings	1891	2500
240m NW	Railway Sidings	1937	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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



and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

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

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 129**

Location	Description
12m S	Abandoned
155m NW	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	38
----------------------------	-----------

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

Features are displayed on the Railway infrastructure and projects map on **page 129**

Location	Name	Type
1m NW	Metrolink	light_rail
2m S	Not given	Preserved
3m NW	Metrolink	light_rail
3m NW	Metrolink	light_rail
3m NW	Not given	Single Track
4m NW	Not given	Single Track
5m S	Not given	Single Track
5m S	Not given	Single Track
5m S	East Lancashire Railway	rail
5m S	Not given	Single Track
5m NW	Metrolink	light_rail



Location	Name	Type
5m NW	Metrolink	light_rail
5m S	Ski Jump	Preserved
6m NW	Not given	Multi Track
7m NW	Not given	Multi Track
7m NW	Not given	Single Track
8m S	Ski Jump	rail
8m NW	Not given	Single Track
10m NW	Not given	Single Track
11m NW	Metrolink	light_rail
11m NW	Metrolink	light_rail
11m NW	Metrolink	light_rail
11m W	Not given	Single Track
13m SW	Not given	Multi Track
15m W	Not given	Single Track
30m W	Not given	Preserved
30m W	East Lancashire Railway	rail
61m N	Metrolink	light_rail
62m N	Metrolink	light_rail
65m N	Not given	Single Track
80m N	Not given	Single Track
85m W	Not given	Single Track
132m W	Not given	Single Track
198m NW	East Lancashire Railway	rail
199m NW	Not given	Preserved
204m NW	Not given	Single Track
227m SW	Metrolink	light_rail
229m SW	Metrolink	light_rail

This data is sourced from Ordnance Survey and OpenStreetMap.



21.8 Crossrail 1

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.



Data providers

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

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Site Details:

380496.279317755,
410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: County Series

Map date: 1850-1851

Scale: 1:10,560

Printed at: 1:10,560



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Revised N/A
Edition 1850
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Levelled N/A

Surveyed 1847
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

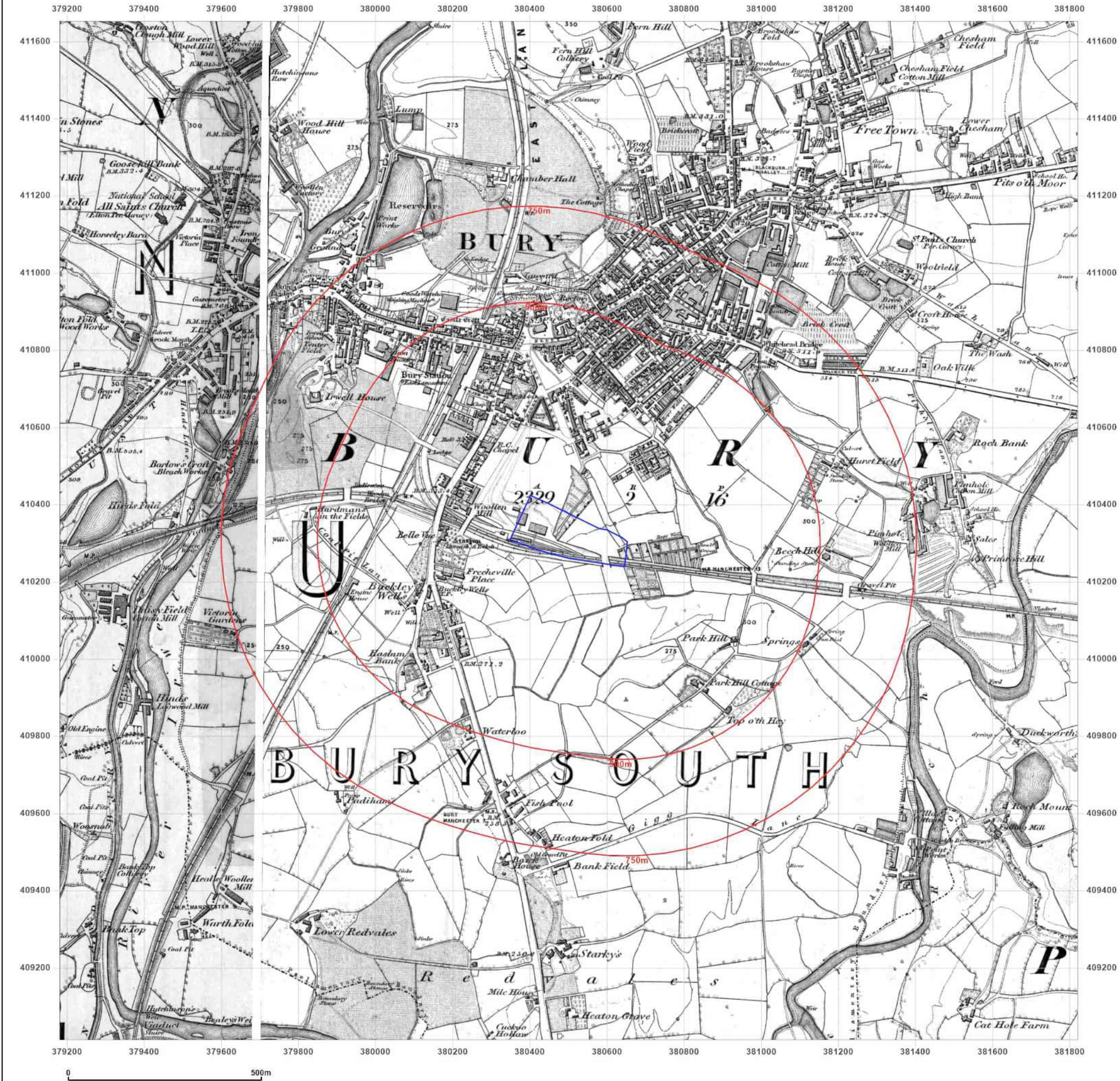


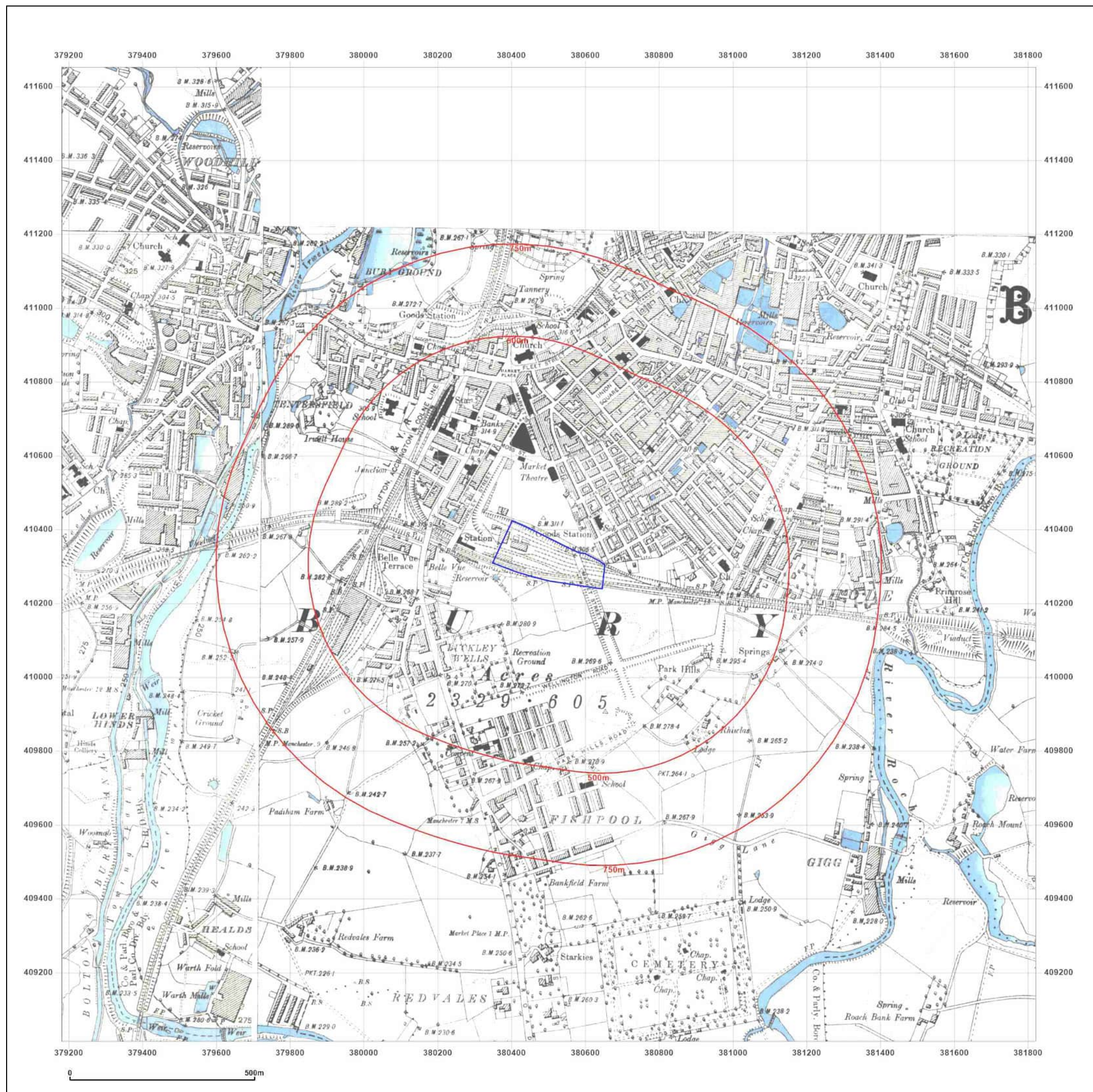
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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: County Series

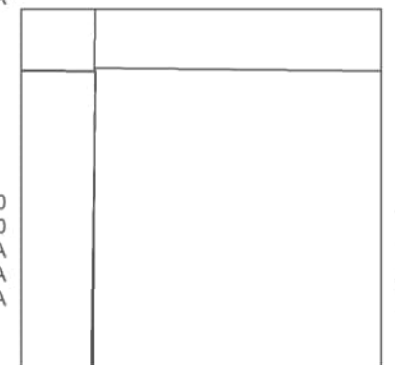
Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



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

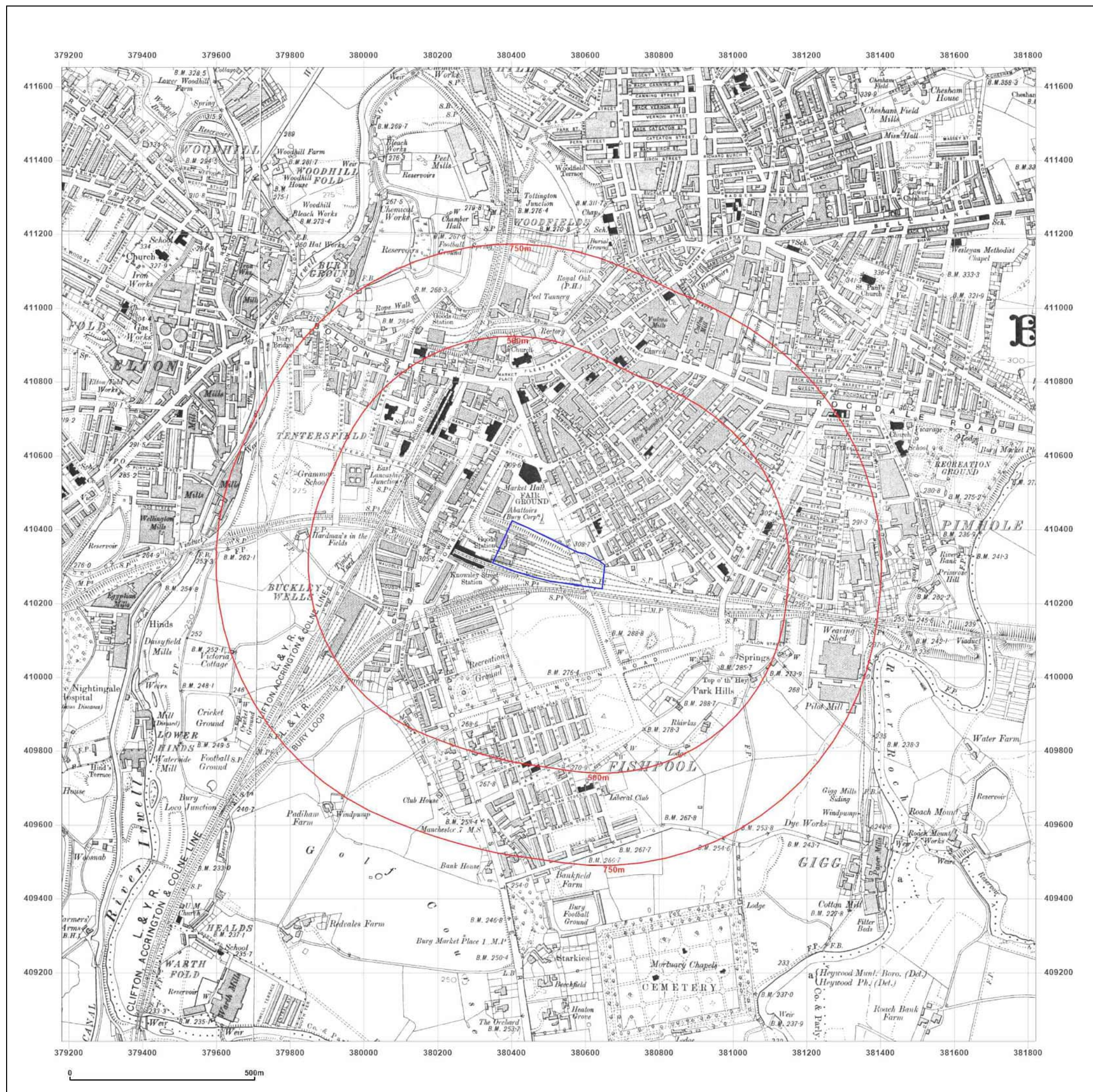


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1844
Revised 1908
Edition N/A
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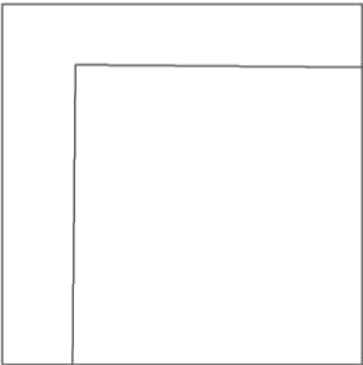
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Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: County Series

Map date: 1928

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1928
Edition N/A
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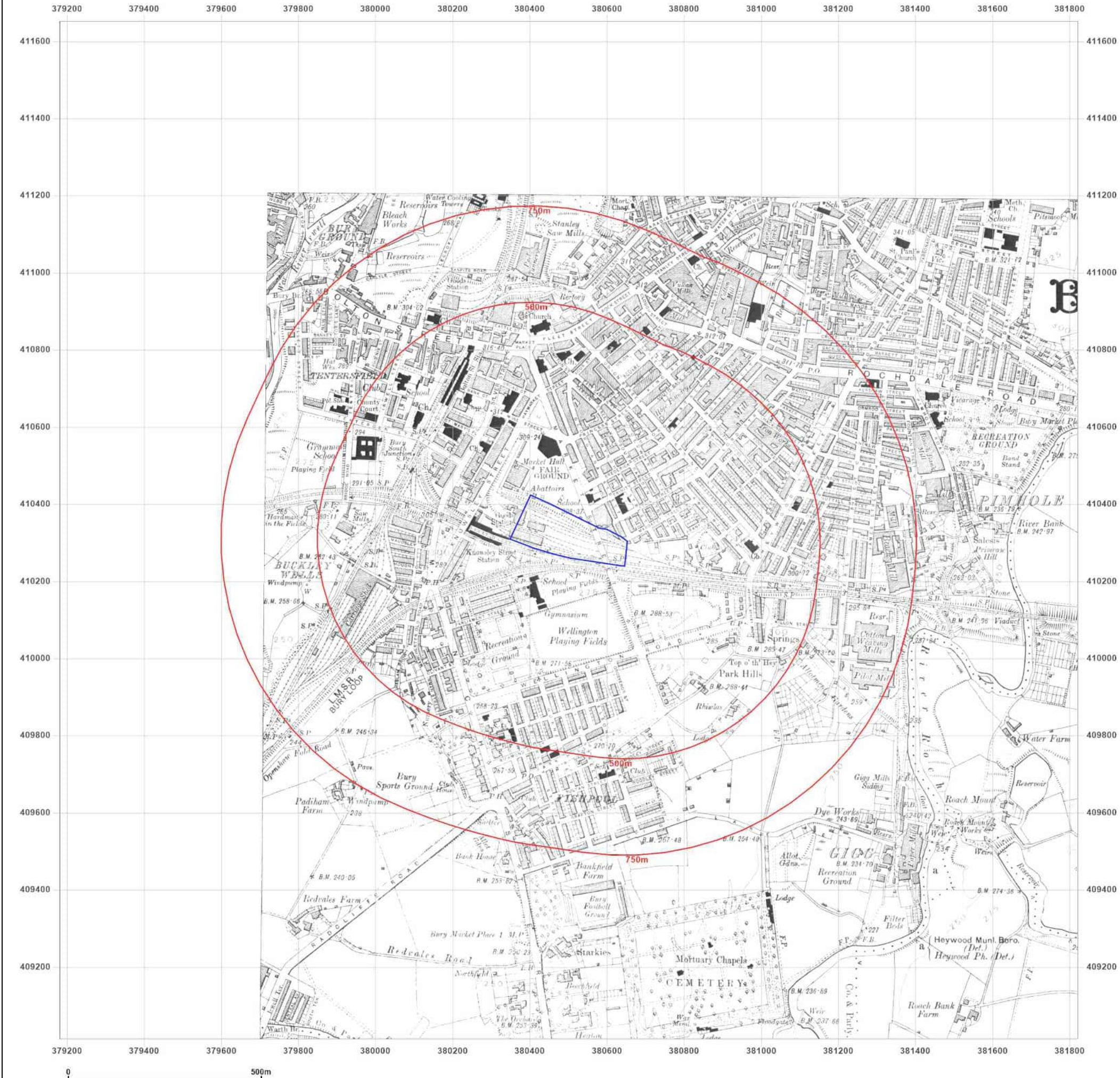


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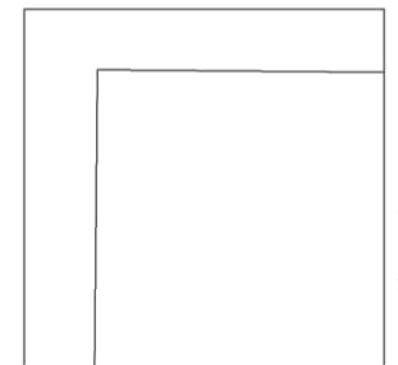
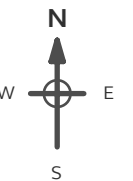
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Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
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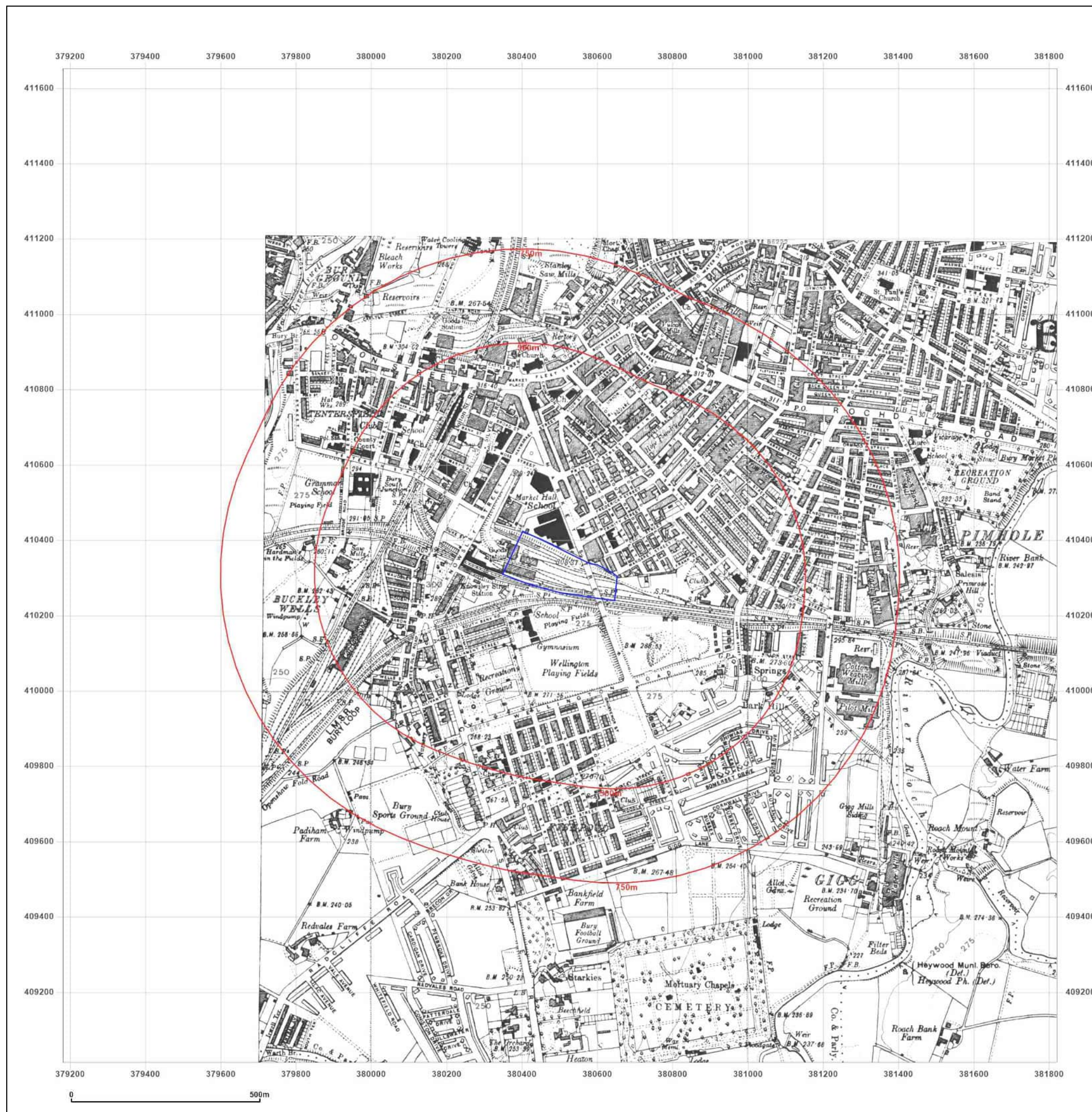


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1949
Revised 1949
Edition N/A
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Edition 1955
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Edition 1955
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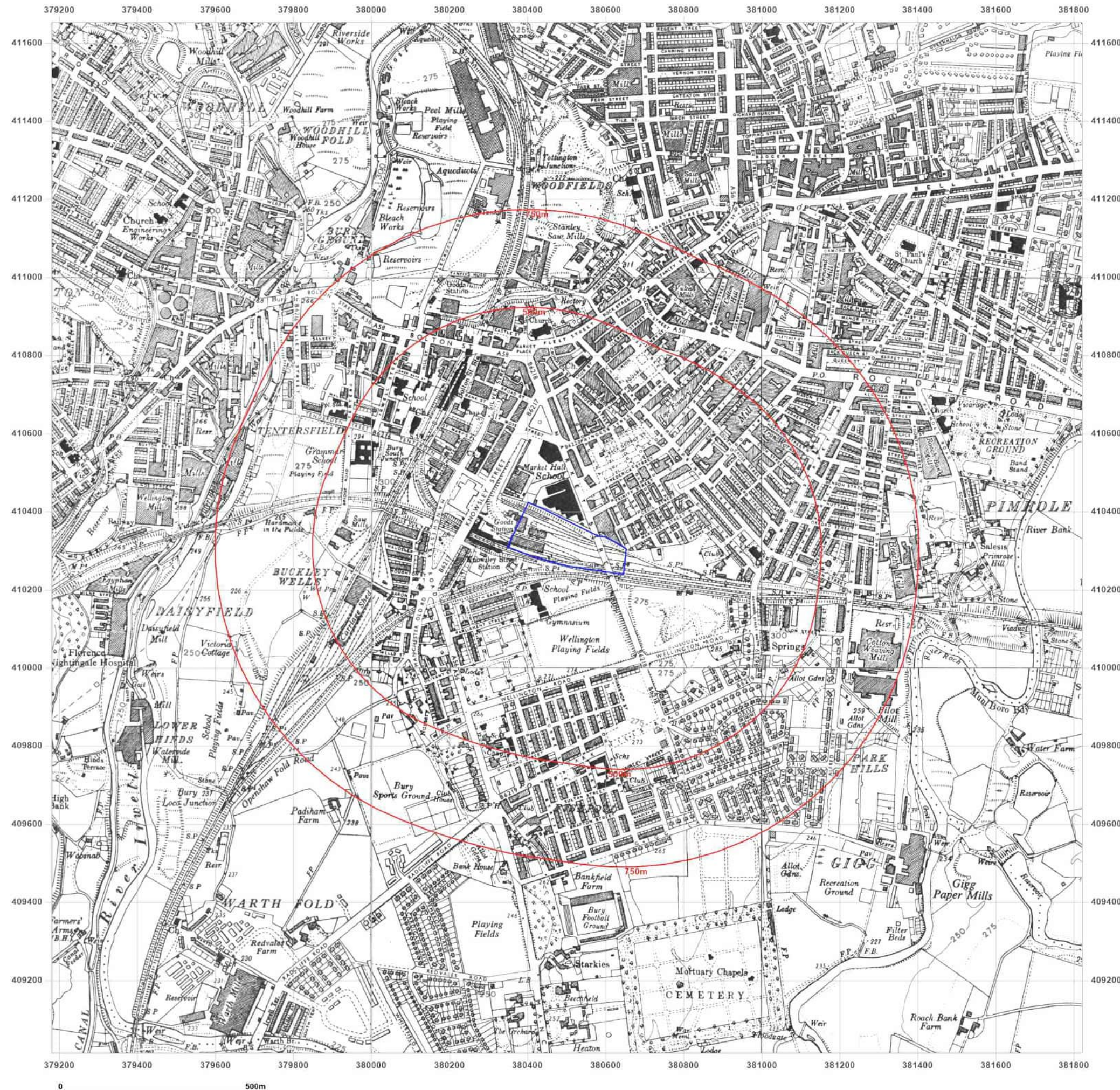


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: Provisional

Map date: 1965-1969

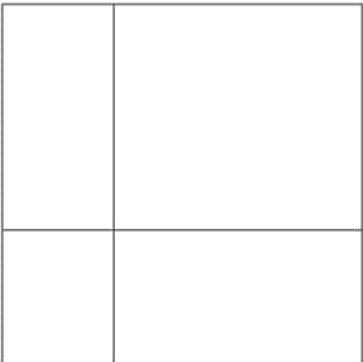
Scale: 1:10,560

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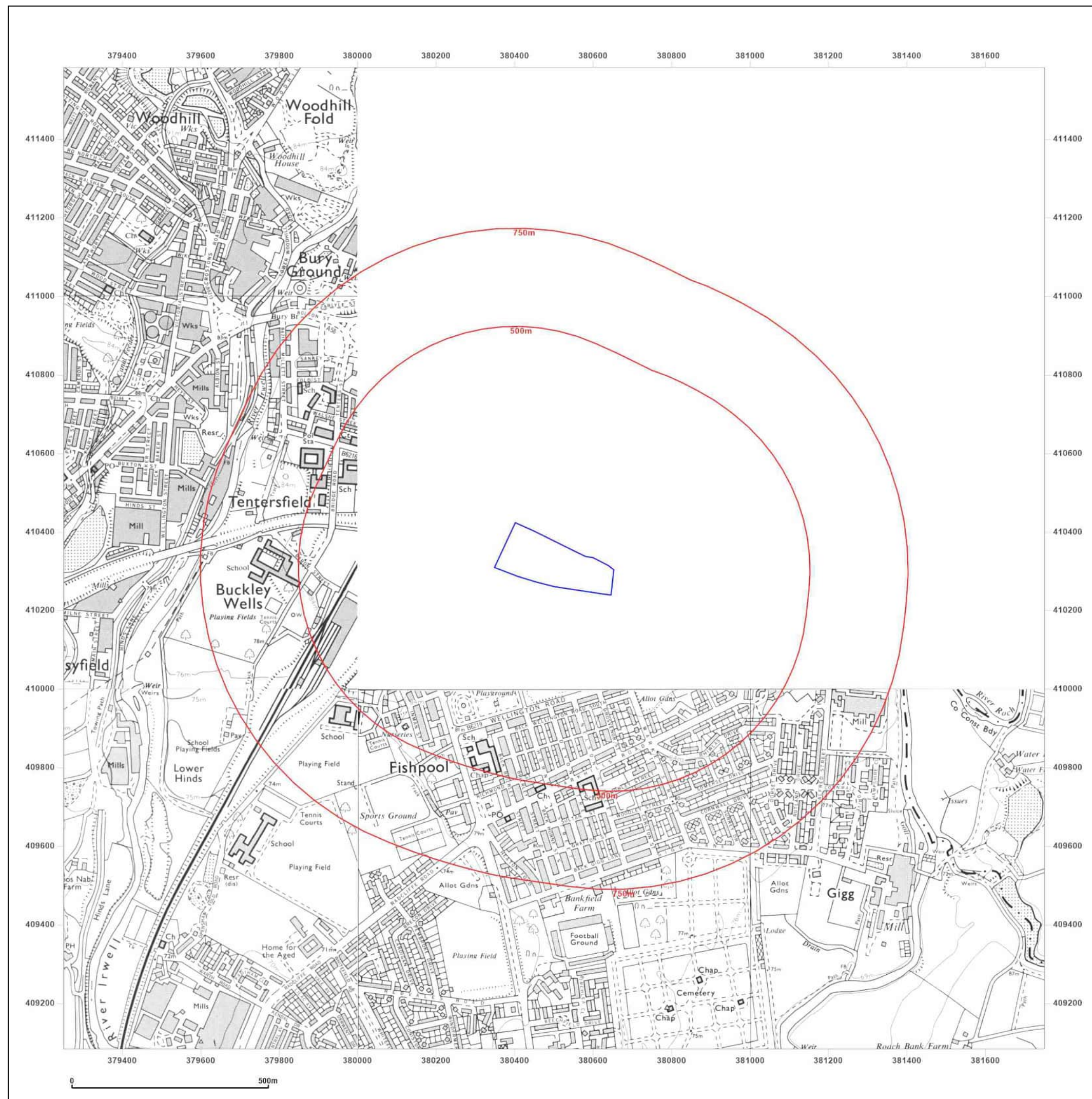
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Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: National Grid

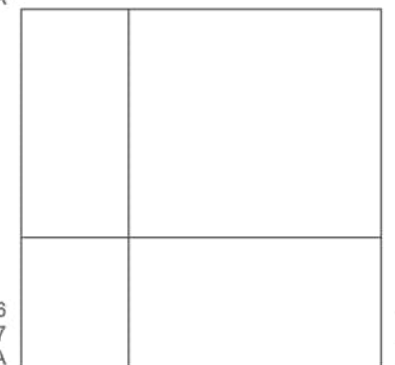
Map date: 1974-1977

Scale: 1:10,000

Printed at: 1:10,000



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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: National Grid

Map date: 1980-1983

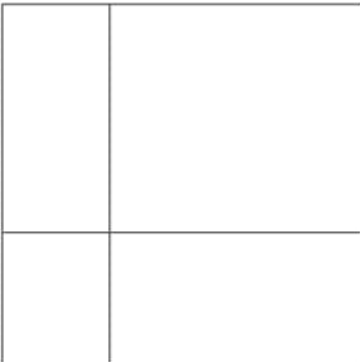
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Revised 1983
Edition N/A
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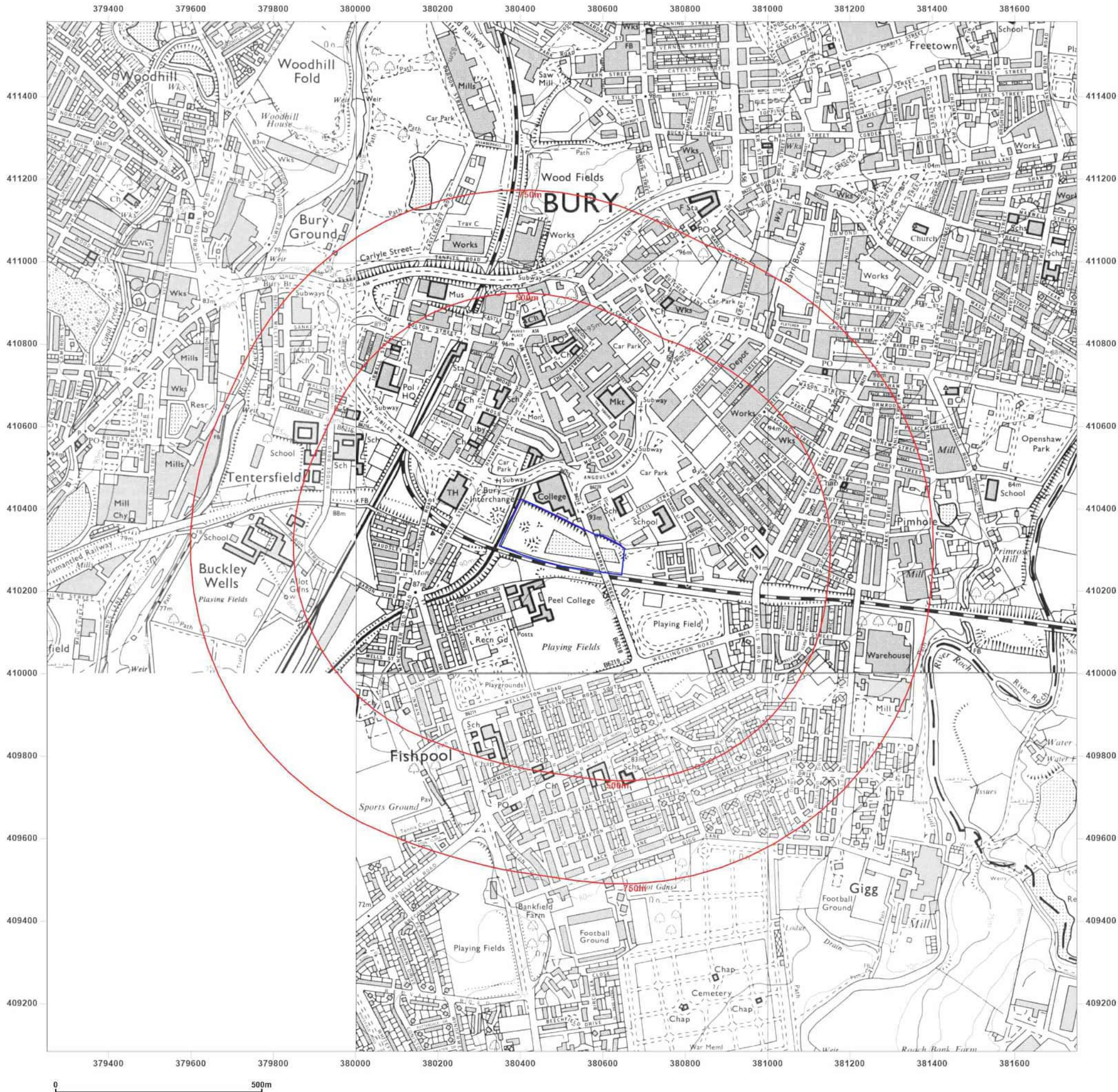


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: National Grid

Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



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Revised 1988
Edition N/A
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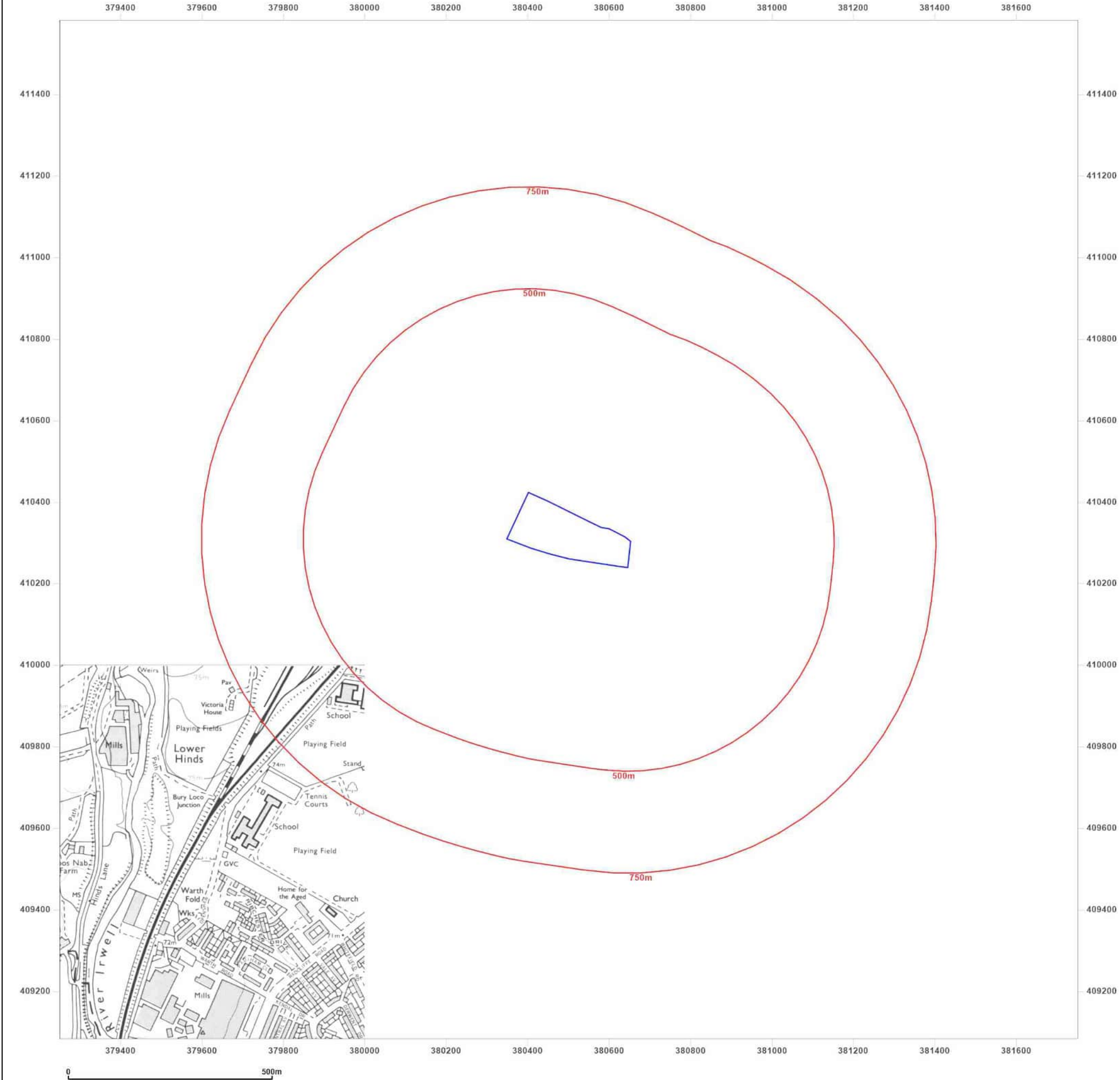


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410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038
Grid Ref: 380500, 410332

Map Name: National Grid

Map date: 1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1987
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

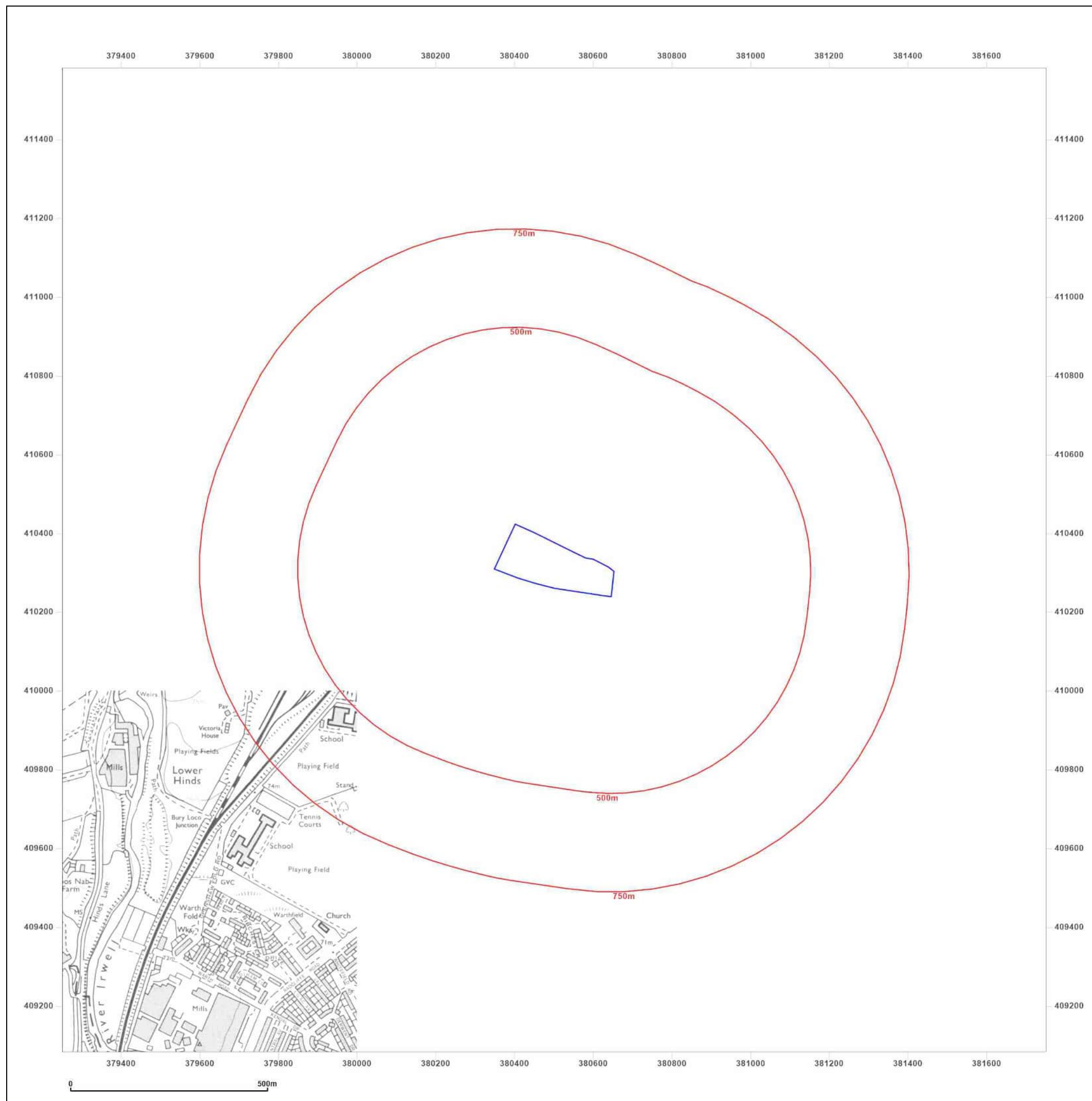


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410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
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Grid Ref: 380500, 410332

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

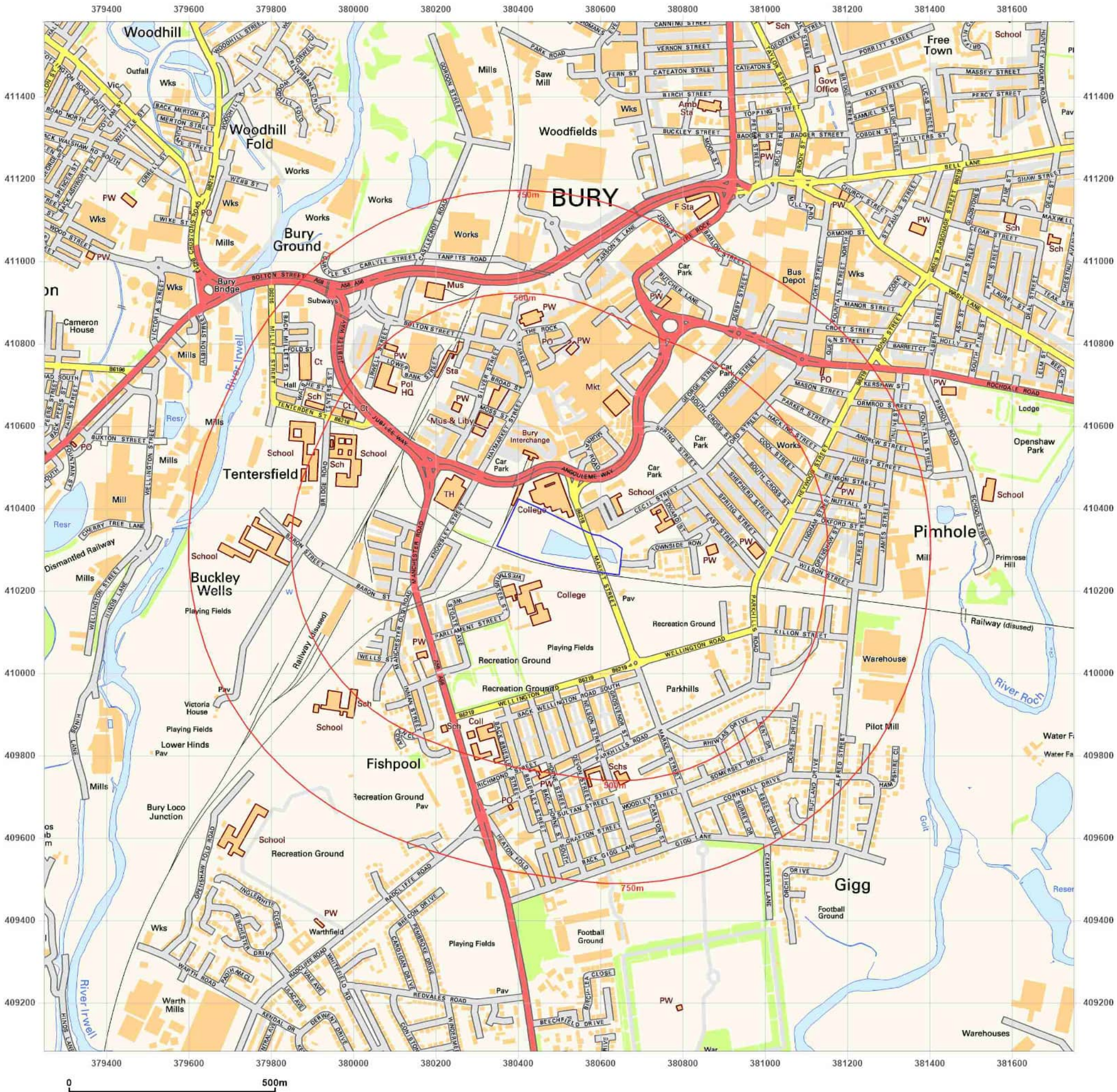


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Site Details:

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410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
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Grid Ref: 380500, 410332

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

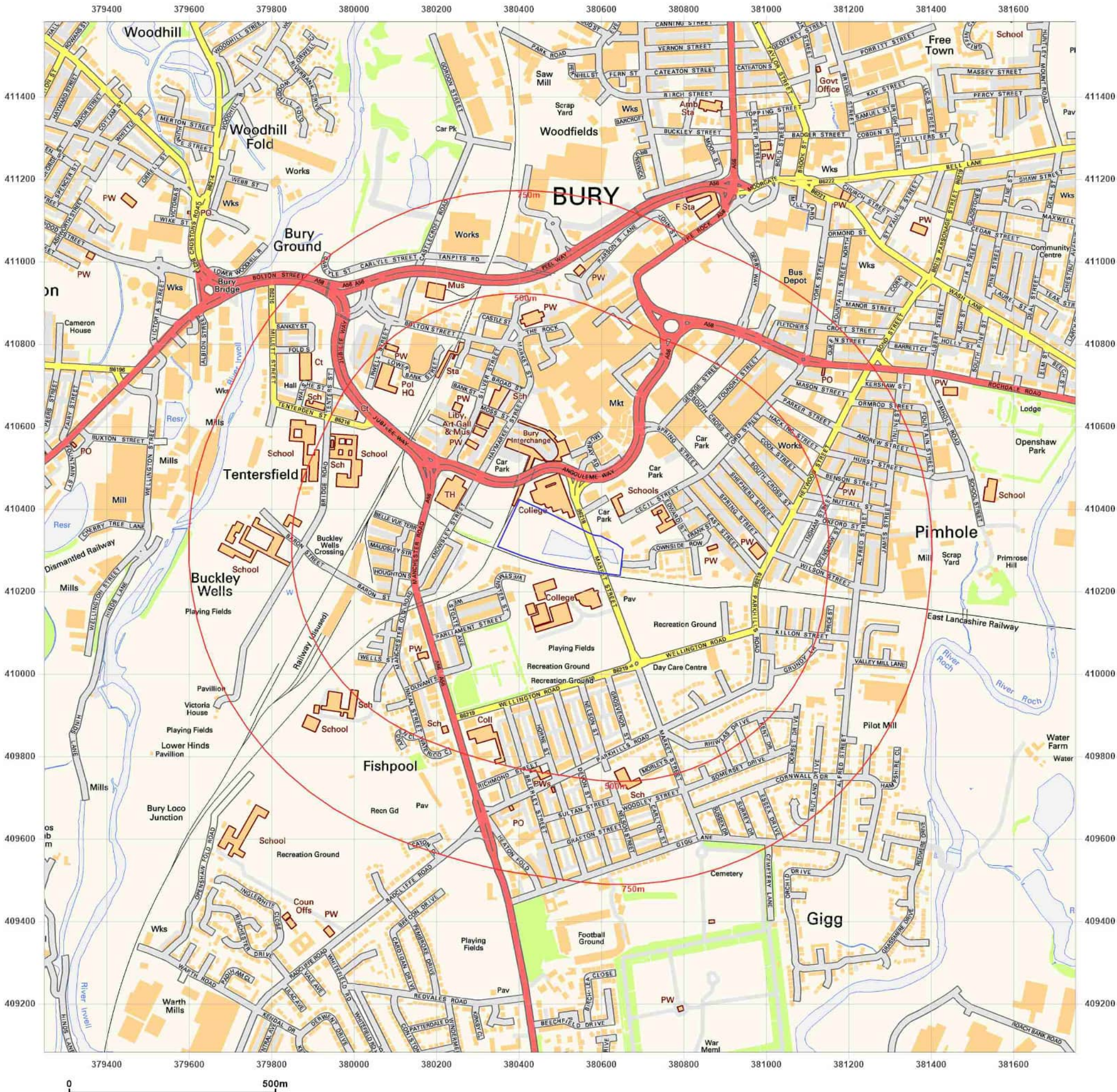


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Map legend available at:
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Site Details:

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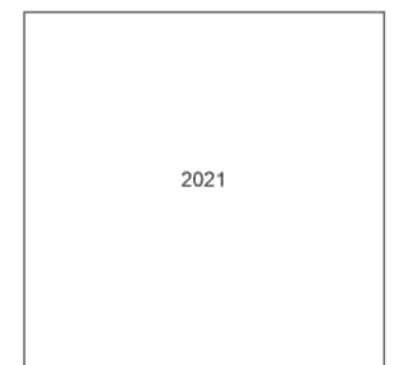
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Map Name: National Grid

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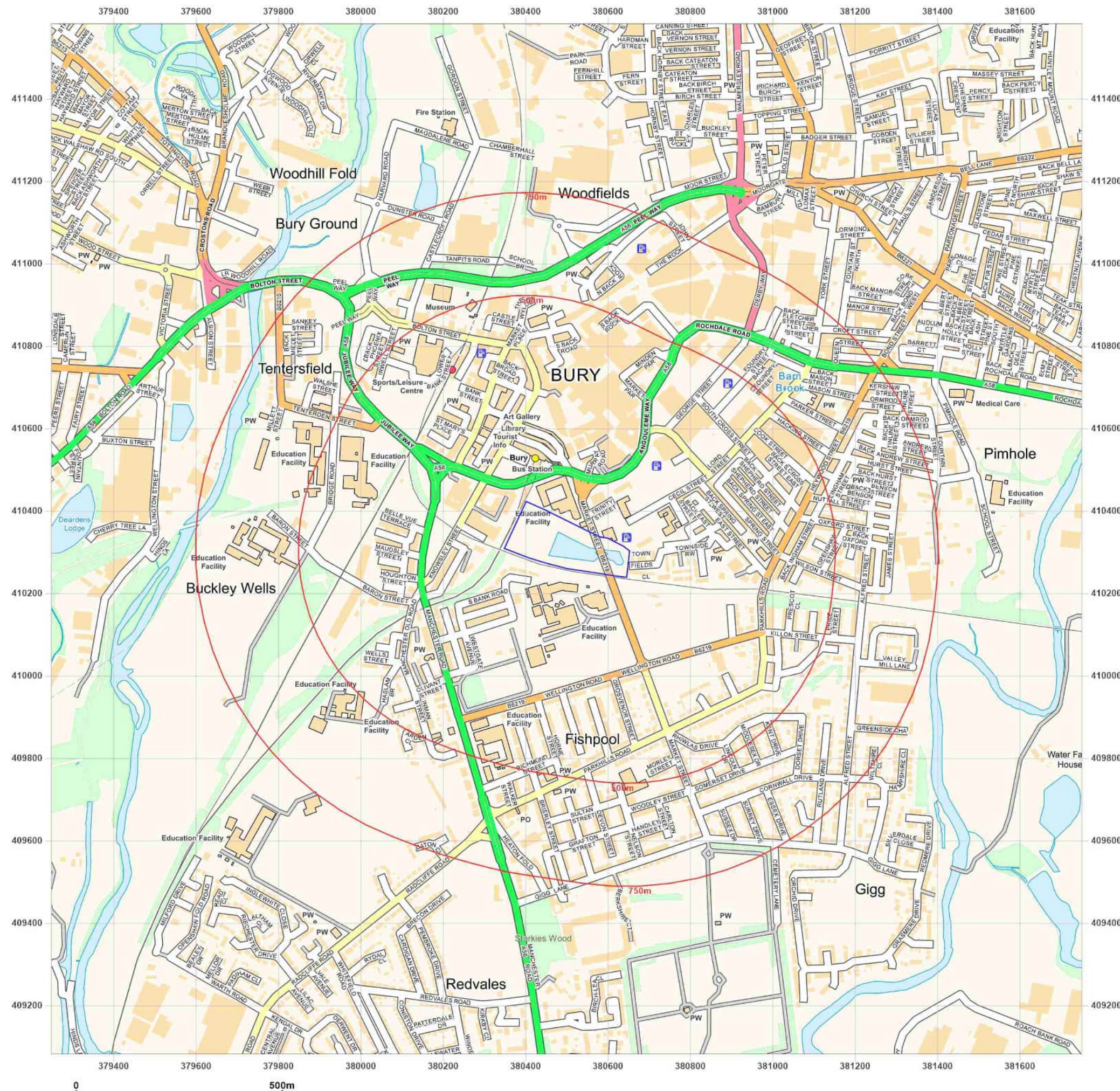


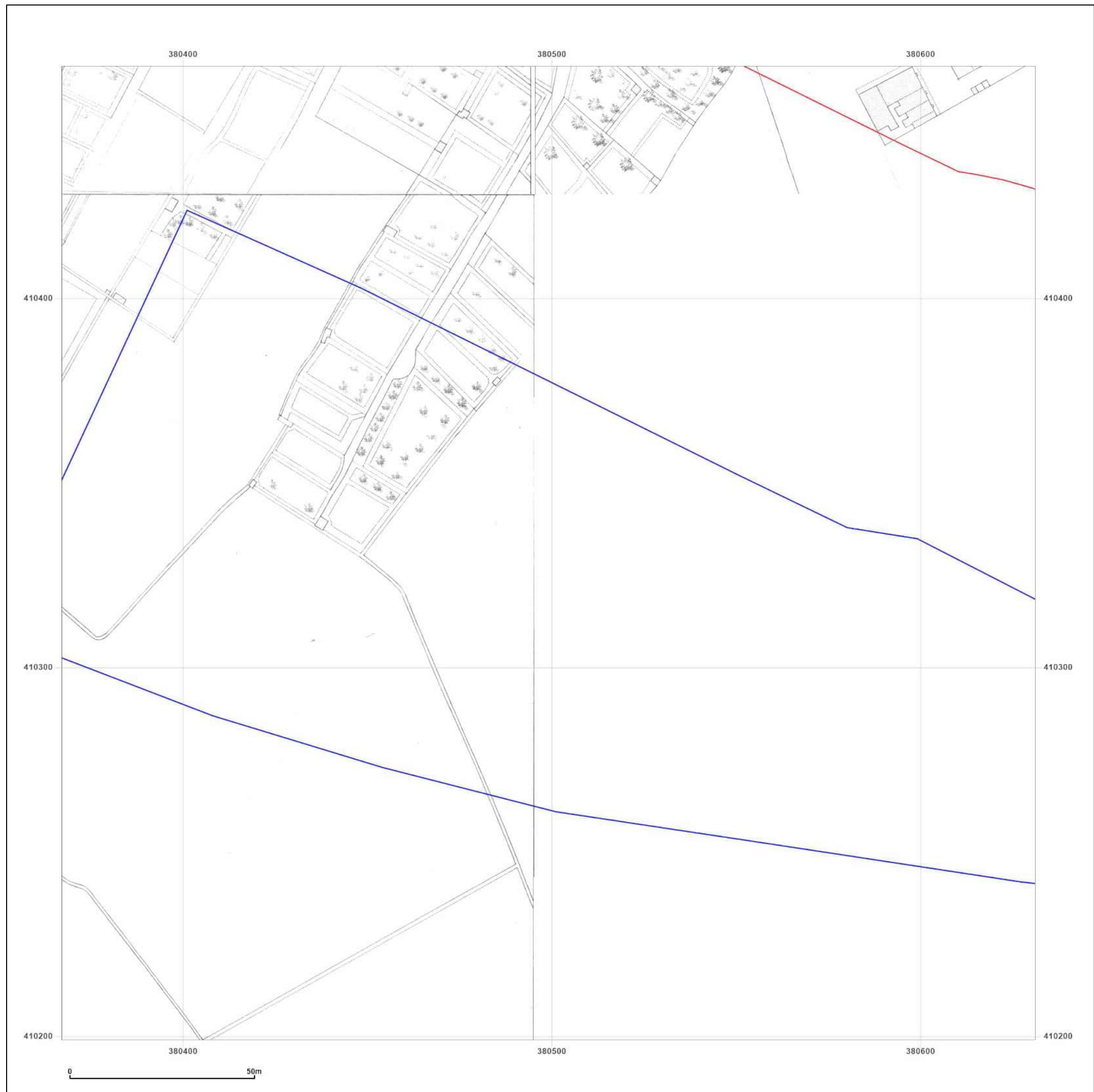
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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038_2500
Grid Ref: 380499, 410331

Map Name: 1056 Scale Town Plan

Map date: 1849

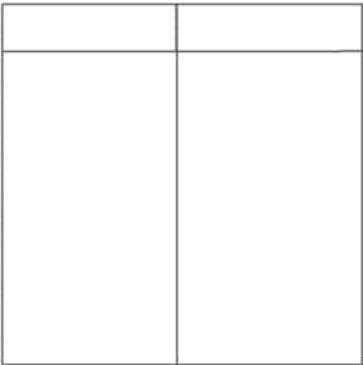
Scale: 1:1,056

Printed at: 1:1,056



Surveyed 1847
Revised N/A
Edition 1849
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Site Details:

380496.279317755,
410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038_2500
Grid Ref: 380499, 410331

Map Name: County Series

Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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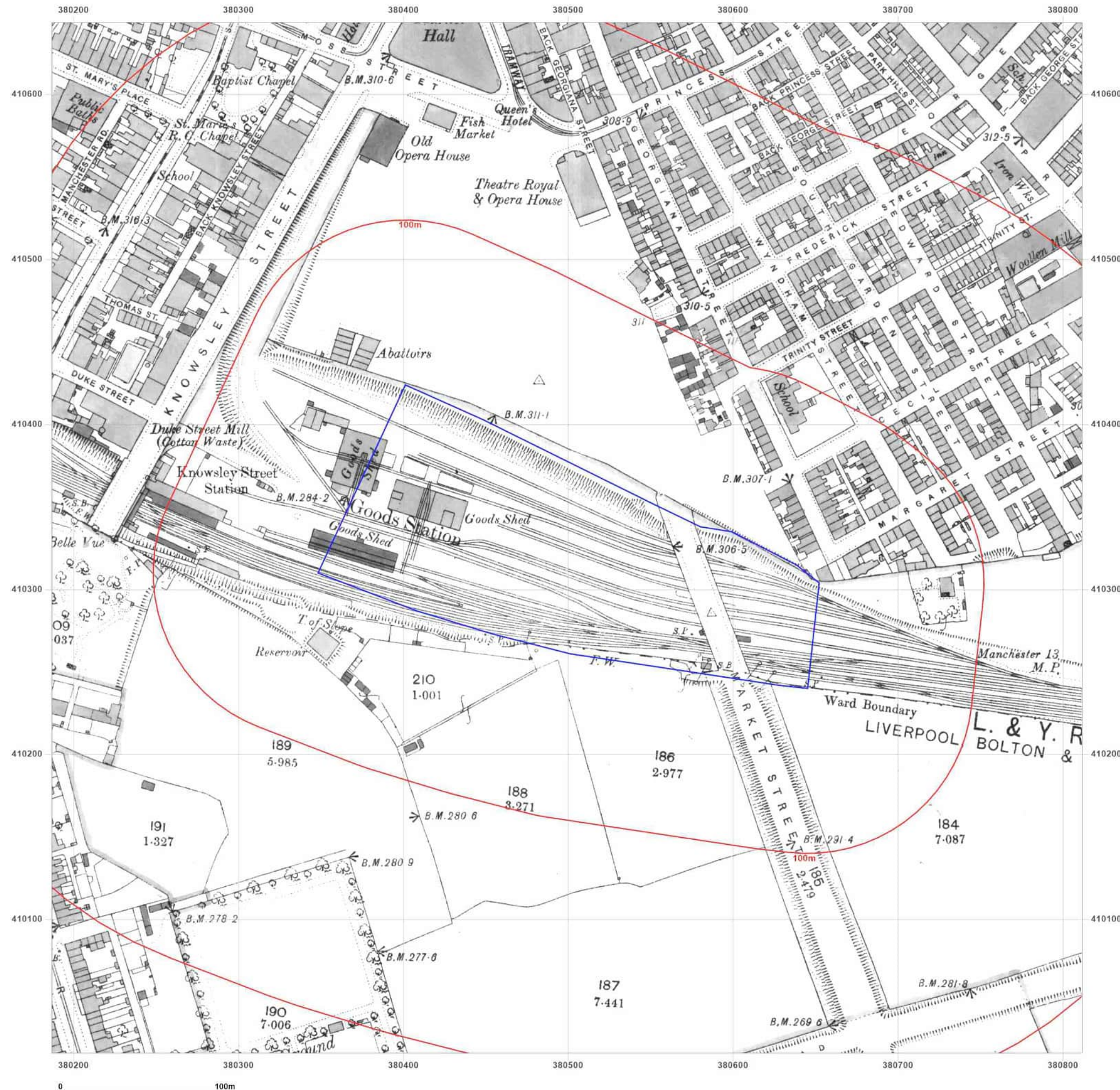


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Site Details:

380496.279317755,
410320.24760762806

Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038_2500
Grid Ref: 380499, 410331

Map Name: County Series Town Plan

Map date: 1891

Scale: 1:500

Printed at: 1:1,000



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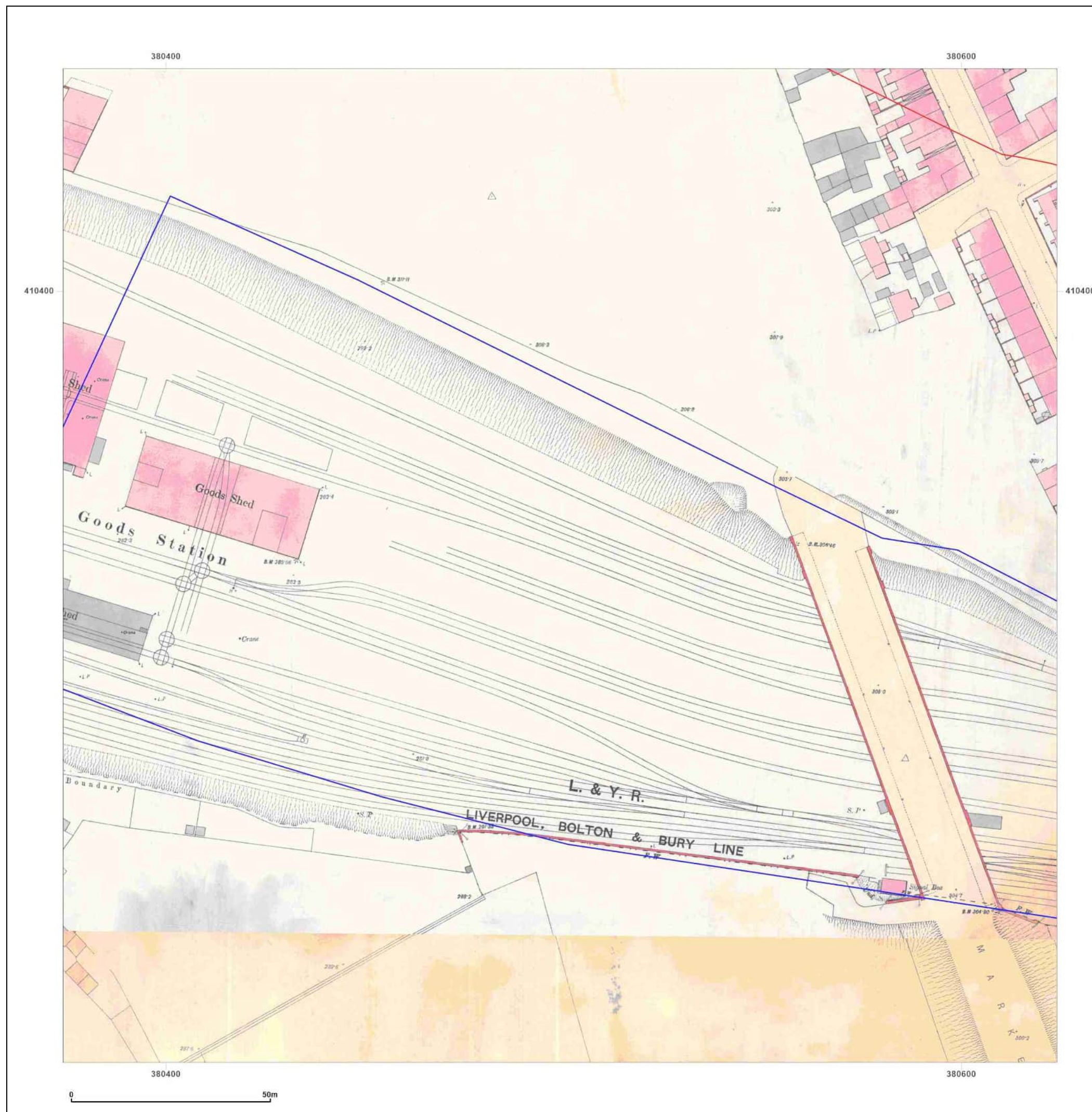


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038_2500
Grid Ref: 380499, 410331

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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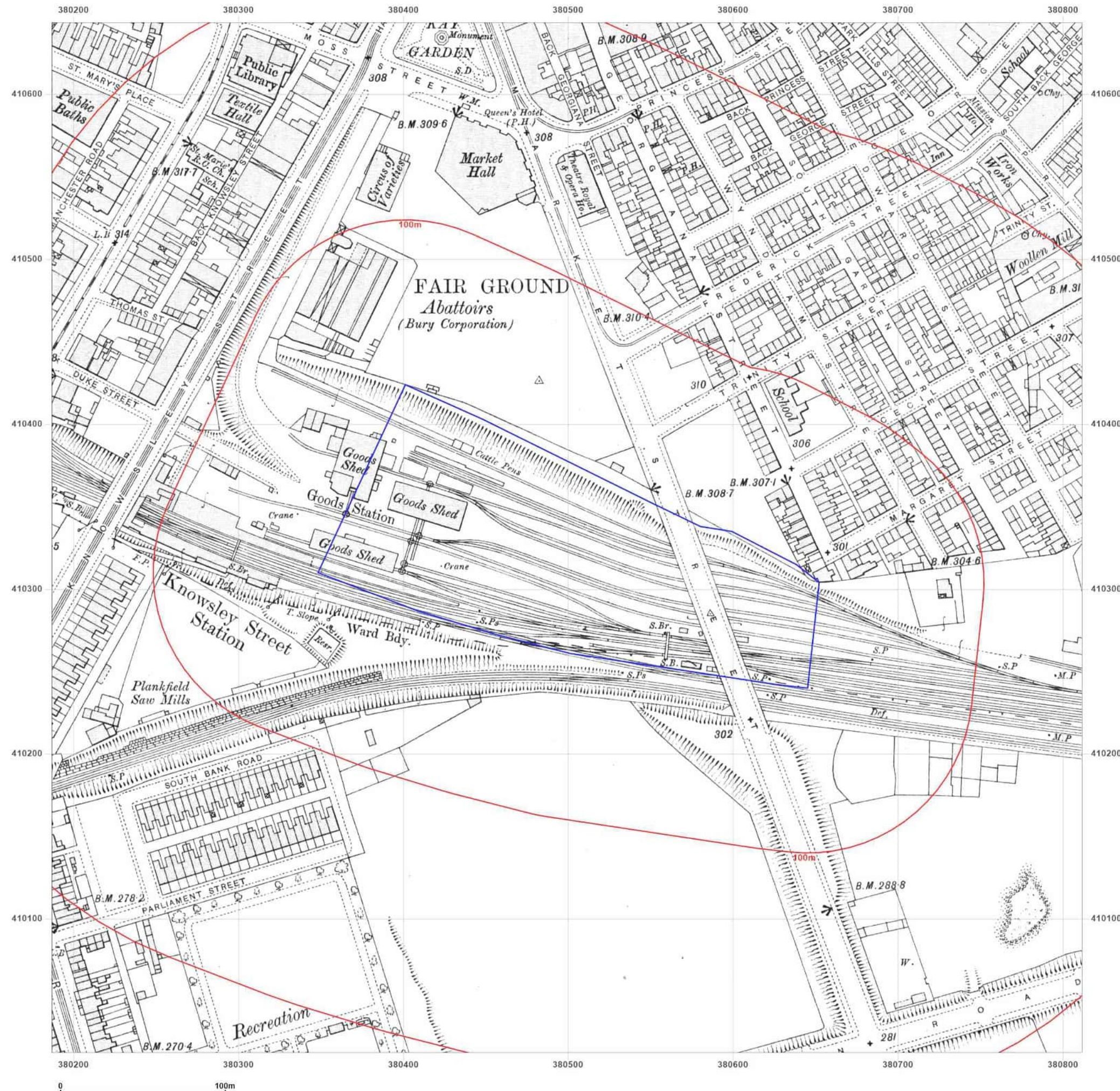


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Client Ref: SO2021021M_Townfields_Bury_-_BT
Report Ref: CAR1-8402038_2500
Grid Ref: 380499, 410331

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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