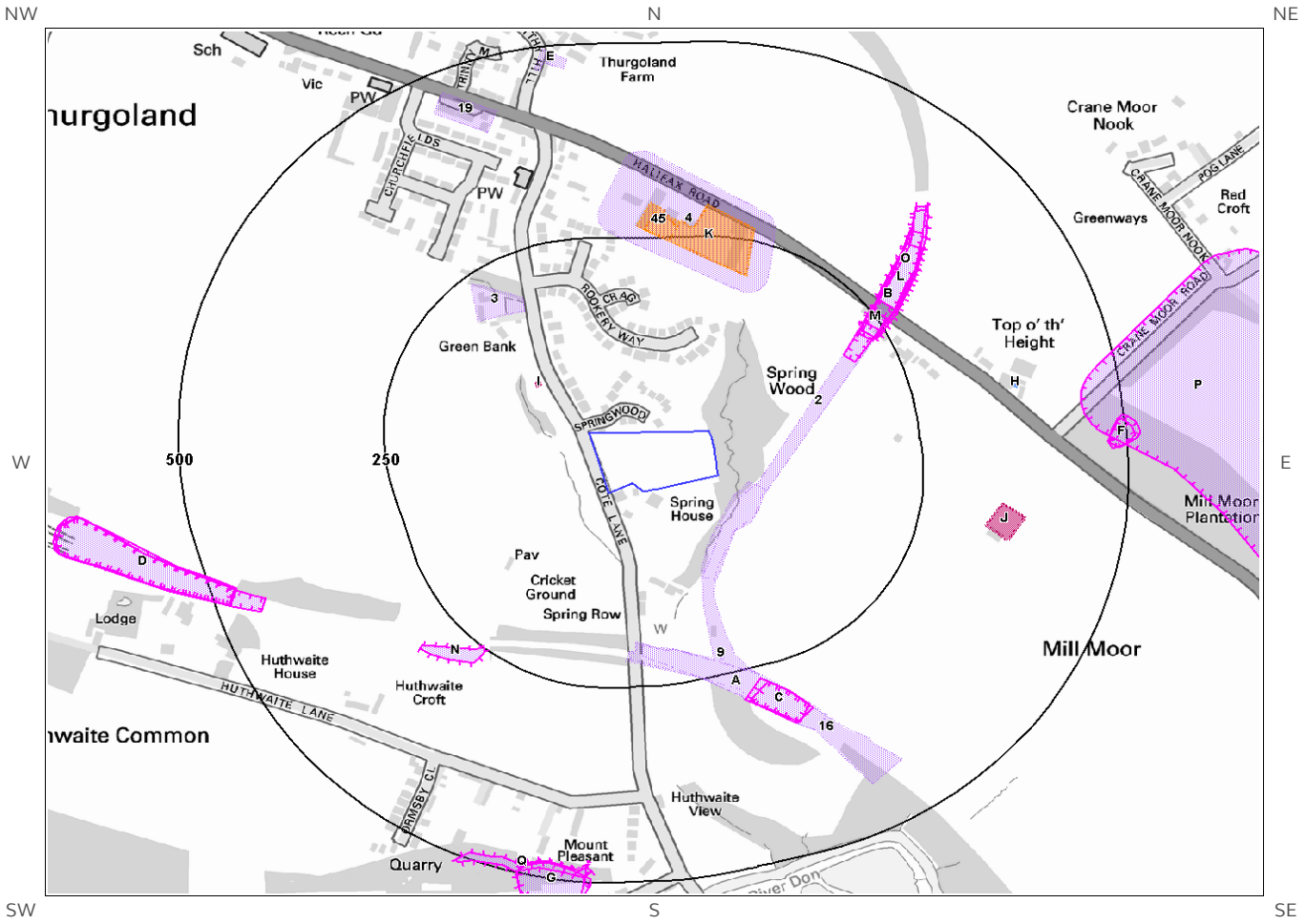
1. Historical Land Use



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Site Outline

Search Buffers (m)
250
500

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Tanks

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 32

ID	Distance [m]	Direction	Use	Date
1	32	SE	Railway Sidings	1951
2	39	SE	Railway Sidings	1903
3	175	NW	Wire Mill	1891
4	183	N	Garage	1965
5B	190	NE	Cuttings	1891
6A	193	S	Railway Sidings	1932
7A	194	S	Railway Sidings	1903
8B	222	NE	Cuttings	1903
9	222	S	Railway Building	1951
10L	227	NE	Cuttings	1932
11M	234	NE	Cuttings	1951
12N	249	SW	Unspecified Heap	1951
13C	266	S	Cuttings	1891
14C	266	S	Cuttings	1932
15C	266	S	Cuttings	1903
16	266	S	Railway Sidings	1891
17O	267	NE	Cuttings	1951
18C	273	S	Cuttings	1951
19	405	N	Unspecified Depot	1987
20D	440	W	Cuttings	1891
21P	451	E	Opencast Workings	1965
22D	470	W	Cuttings	1932
23D	470	W	Cuttings	1903
24E	470	N	Smithy	1891
25E	470	N	Smithy	1903
26D	472	W	Cuttings	1951
27F	477	E	Refuse Heap	1932
28G	478	S	Unspecified Quarry	1951
29Q	479	S	Unspecified Disused Quarry	1987
30F	479	E	Refuse Heap	1951
31G	480	S	Unspecified Quarry	1932
32G	480	S	Unspecified Quarry	1903

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 3

ID	Distance (m)	Direction	Use	Date
33H	372	E	Unspecified Tank	1980
34H	372	E	Unspecified Tank	1988
35H	374	E	Unspecified Tank	1993

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 6

ID	Distance (m)	Direction	Use	Date
36I	85	NW	Electricity Substation	1980
37I	85	NW	Electricity Substation	1988
38I	85	NW	Electricity Substation	1993
39J	330	E	Electricity Substation	1980
40J	330	E	Electricity Substation	1988
41J	334	E	Electricity Substation	1993

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
42K	204	N	Garage	1988
43K	204	N	Garage	1980
44K	205	N	Garage	1993
45	246	N	Garage	1959

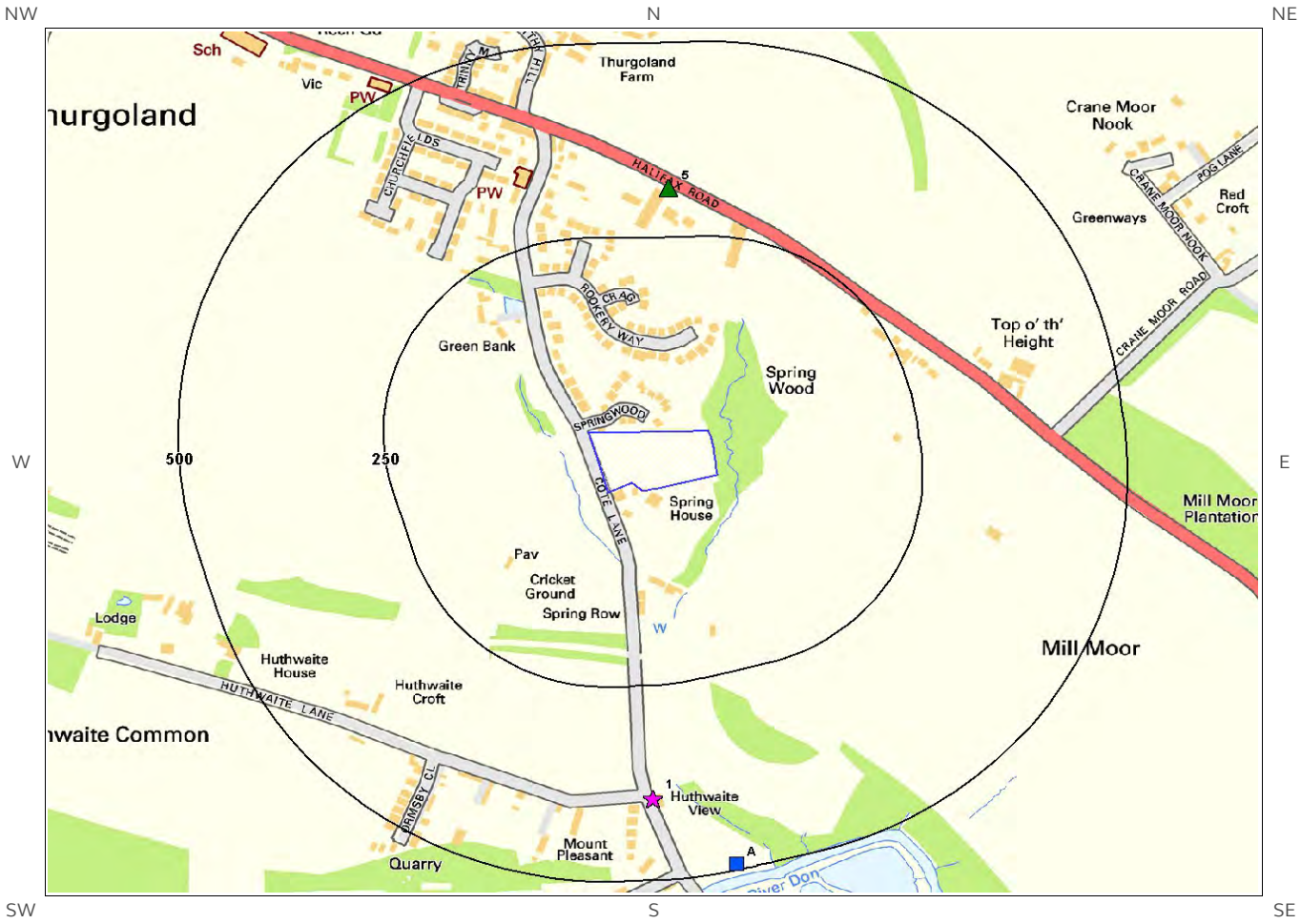
1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 21

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
46B	190	NE	Cuttings	1891
47B	222	NE	Cuttings	1903
48L	227	NE	Cuttings	1932
49M	234	NE	Cuttings	1951
50N	249	SW	Unspecified Heap	1951
51C	266	S	Cuttings	1891
52C	266	S	Cuttings	1903
53C	266	S	Cuttings	1932
54O	267	NE	Cuttings	1951
55C	273	S	Cuttings	1951
56D	440	W	Cuttings	1891
57P	451	E	Opencast Workings	1965
58D	470	W	Cuttings	1932
59D	470	W	Cuttings	1903
60D	472	W	Cuttings	1951
61F	477	E	Refuse Heap	1932
62G	478	S	Unspecified Quarry	1951
63Q	479	S	Unspecified Disused Quarry	1987
64F	479	E	Refuse Heap	1951
65G	480	S	Unspecified Quarry	1903
66G	480	S	Unspecified Quarry	1932

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
5	311	N	429217 400967	Address: Ernest Thorpe & Co. Limited, Central Garage, Halifax Road, Thurgoland, Sheffield, S35 7AJ Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

3

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
2A	492	S	429300 400100	Address: SSO AT THURGOLAND PUMPING STATION Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2992 Permit Version: 1	Receiving Water: RIVER DON Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 05/11/1973 Effective Date: 09-Nov-1973 Revocation Date: 30/03/2007
3A	492	S	429300 400100	Address: SSO AT THURGOLAND PUMPING STATION Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2992 Permit Version: 2	Receiving Water: RIVER DON Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 21/03/2005 Effective Date: 31-Mar-2007 Revocation Date: 23/03/2010
4A	492	S	429300 400100	Address: SSO AT THURGOLAND PUMPING STATION Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2992 Permit Version: 3	Receiving Water: RIVER DON Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2010 Effective Date: 24-Mar-2010 Revocation Date: -

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

1

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	396	S	429197 400183	Incident Date: 12-Jun-2002 Incident Identification: 84318 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

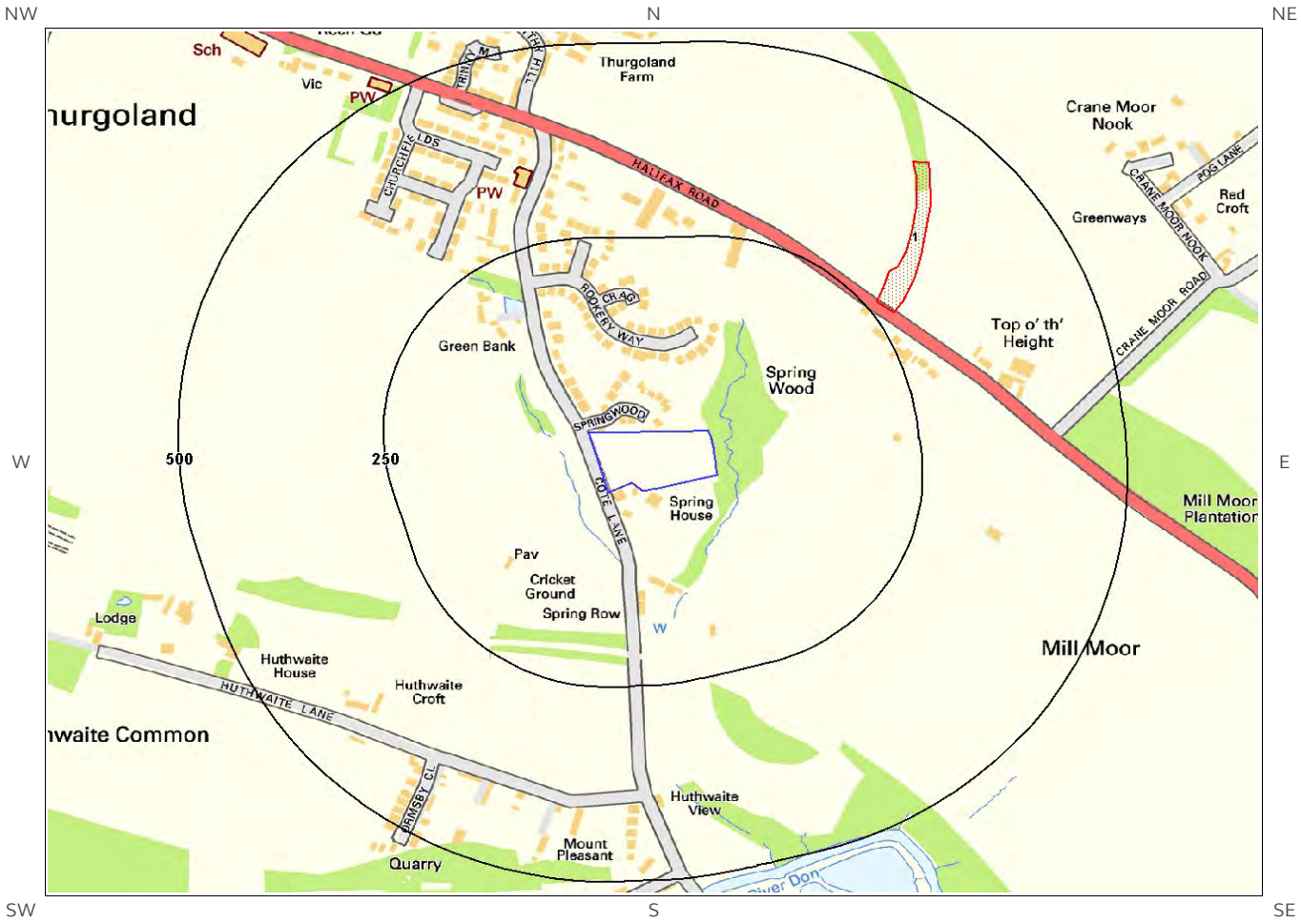
Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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Site Outline

250
500
Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

4

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
1	264	NE	429500 400800	Site Address: Disused Railway Cutting off A629, Halifax Road, Thurgoland, Barnsley Waste Licence: Yes Site Reference: WD20 Eng5, WD2 B13, 2B13(32), 4400/B13 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 26-Nov-1980 Licence Surrendered: 31-Dec-1990 Licence Holder Address: - Operator: South Yorkshire County Council Licence Holder: South Yorkshire County Council First Recorded: 31-Dec-1980 Last Recorded: 31-Dec-1990
Not shown	922	NE	430100 401100	Site Address: Lionell Hill, Cranemoor Road, Crane Moor Waste Licence: - Site Reference: 4400/(31) Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: L Airstone Licence Holder: L Airstone First Recorded: 31-Dec-1976 Last Recorded: 31-Dec-1980
Not shown	1157	S	428700 399400	Site Address: Well Hill Road, Green Moor, Penistone Waste Licence: - Site Reference: 4400/(122) Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1483	SW	427700 399800	Site Address: California Quarry, Greenmoor, Near. Penistone Waste Licence: Yes Site Reference: WD20 B97, 4400/B97, 20B97(63) Waste Type: Industrial, Commercial, Liquid, sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Jul-1977 Licence Surrendered: 17-Apr-1991 Licence Holder Address: Green Road, Penistone Operator: David Brown Gear Licence Holder: David Brown Gear Industrials Limited First Recorded: 31-Jul-1977 Last Recorded: 31-Mar-1981

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

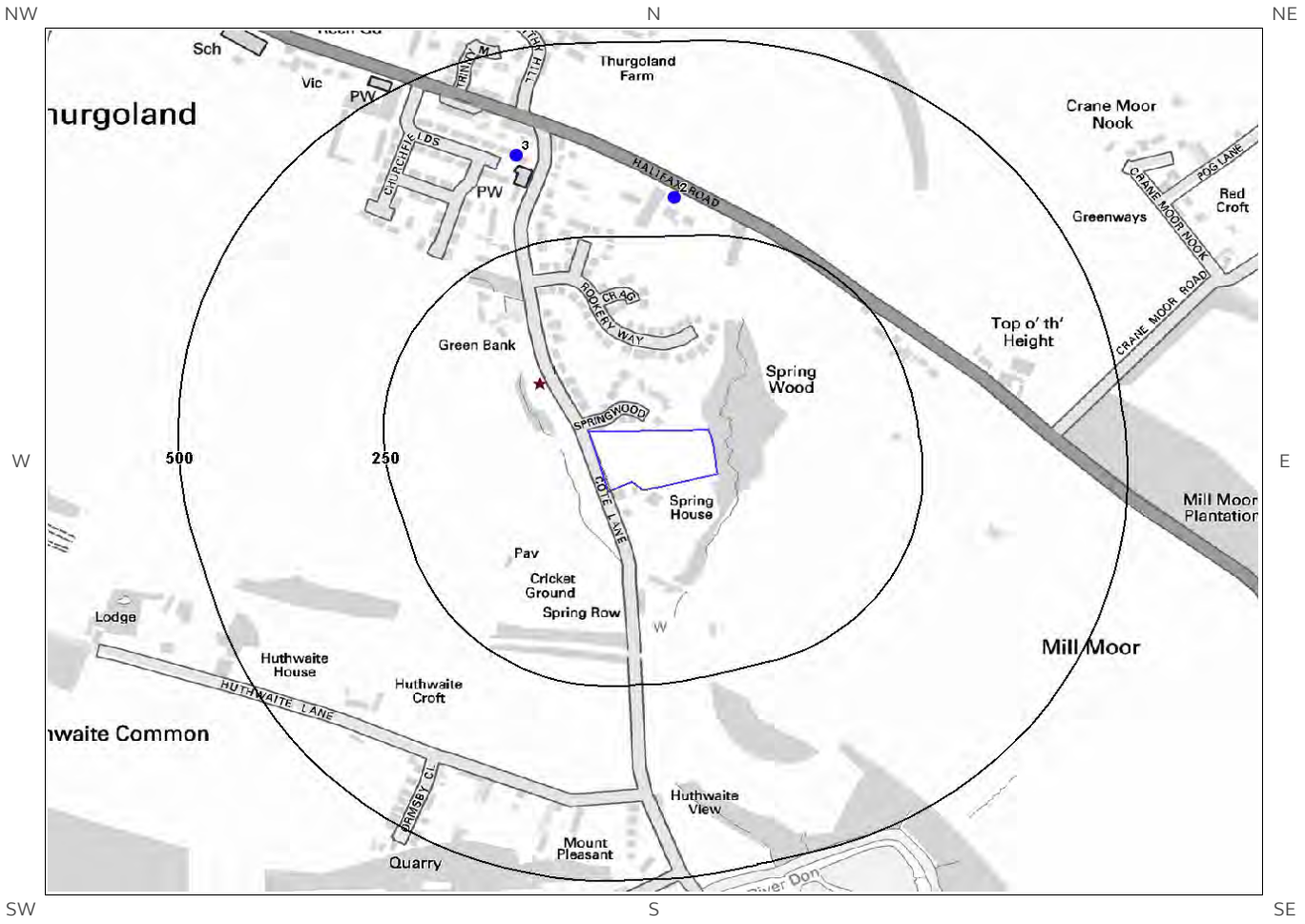
3

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1088	S	429110 399490	Site Address: 1, Low Forge, Wortley, Sheffield, South Yorkshire, S35 7DN Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000167 EPR reference: - Operator: Haigh Brian Waste Management licence No: 65380 Annual Tonnage: 0.0	Issue Date: 13/12/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Bh Scrap Metals Correspondence Address: 1, Low Forge, Wortley, Sheffield, South Yorkshire, S35 7DN

ID	Distance (m)	Direction	NGR	Details	
Not shown	1088	S	429110 399490	Site Address: 1, Low Forge, Wortley, Sheffield, South Yorkshire, S35 7DN Type: 75kte Vehicle Depollution Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000167 EPR reference: EA/EPR/CP3499LU/V002 Operator: Haigh Brian Waste Management licence No: 65380 Annual Tonnage: 0.0	Issue Date: 12/13/2004 Effective Date: - Modified: 12/22/2008 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: B H Scrap Metals Correspondence Address: 1, Low Forge, Wortley, Sheffield, South Yorkshire, S35 7DN
Not shown	1088	S	429110 399490	Site Address: 1, Low Forge, Wortley, Sheffield, South Yorkshire, S35 7DN Type: 75kte Vehicle Depollution Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BHS002 EPR reference: EA/EPR/FP3393LA/T001 Operator: B H Scrap Metals Ltd Waste Management licence No: 65380 Annual Tonnage: 7500.0	Issue Date: 13/12/2004 Effective Date: 05/01/2010 Modified: 05/11/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: B H Scrap Metals, Forge Lane Correspondence Address: -

4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 1

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	87	NW	Electricity Sub Station	429060 400717	Electricity Sub Station, S35	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 2

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
2	300	N	429224 400956	Unbranded	Thorpes Transport, A629, A629, Thurgoland, Sheffield, South Yorkshire, S36 2SQ	No	Open
3	367	N	429031 401010	Obsolete	Mathews Haulage, Huddersfield Road, Huddersfield Road, Thurgoland, Sheffield, South Yorkshire, S36	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.3 Bedrock and Solid Geology

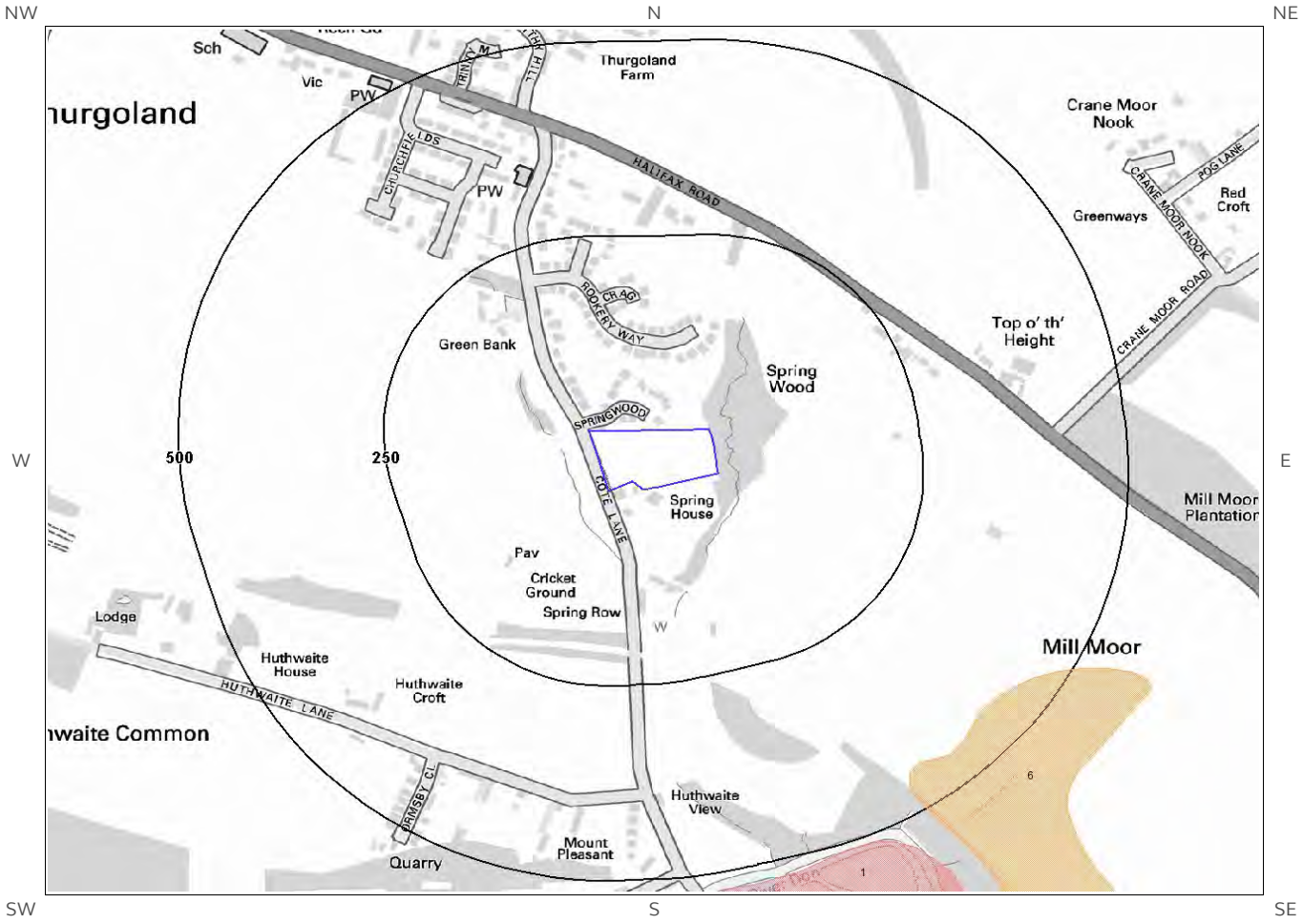
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PF-SDST	PENISTONE FLAGS	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PF-SDST	PENISTONE FLAGS	SANDSTONE
PF-SDST	PENISTONE FLAGS	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

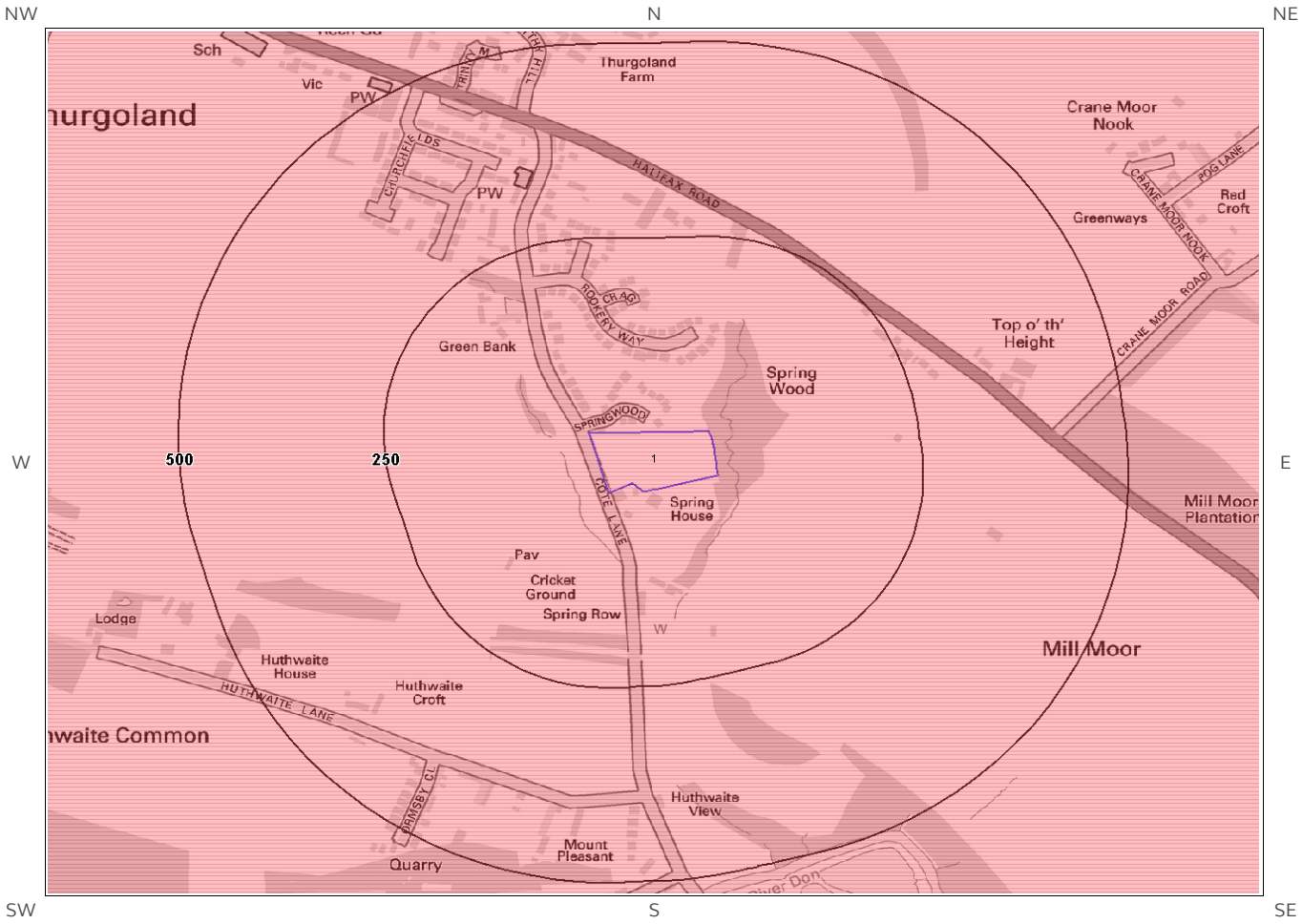
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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Site Outline

250 — 500 — Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

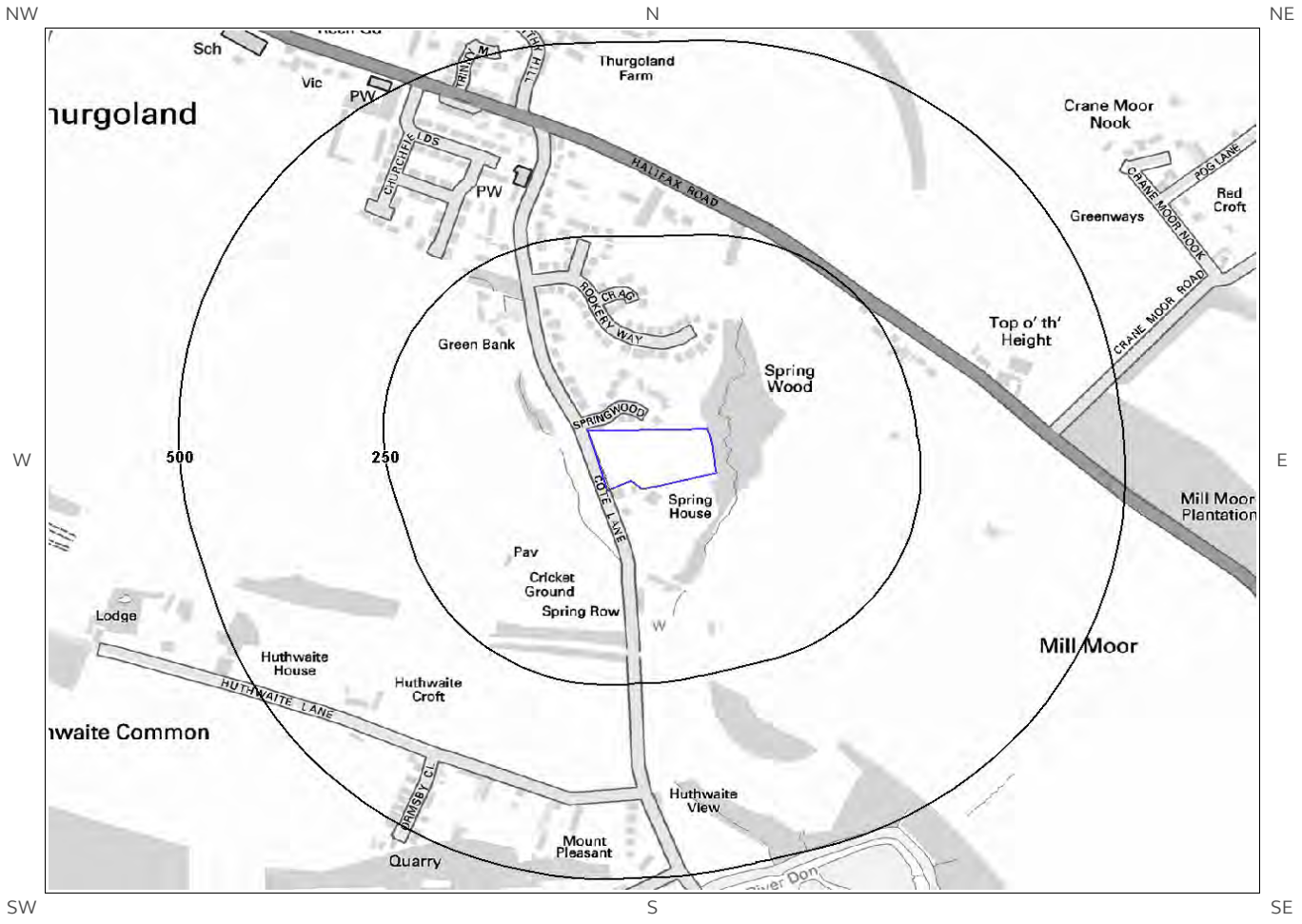
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



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Site Outline

250 Search Buffers (m)
500

Source Protection Zone 1 - Inner Catchment

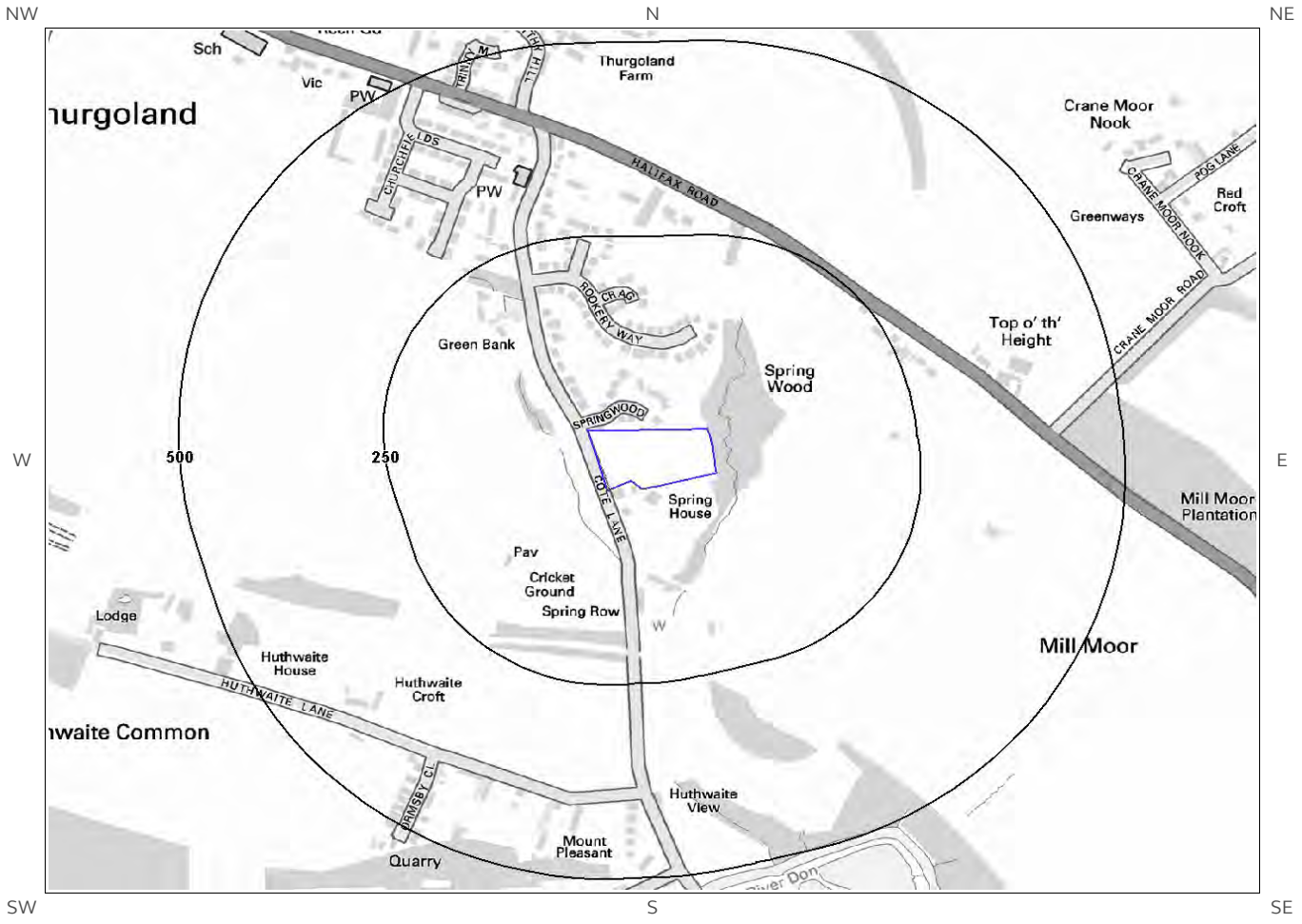
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

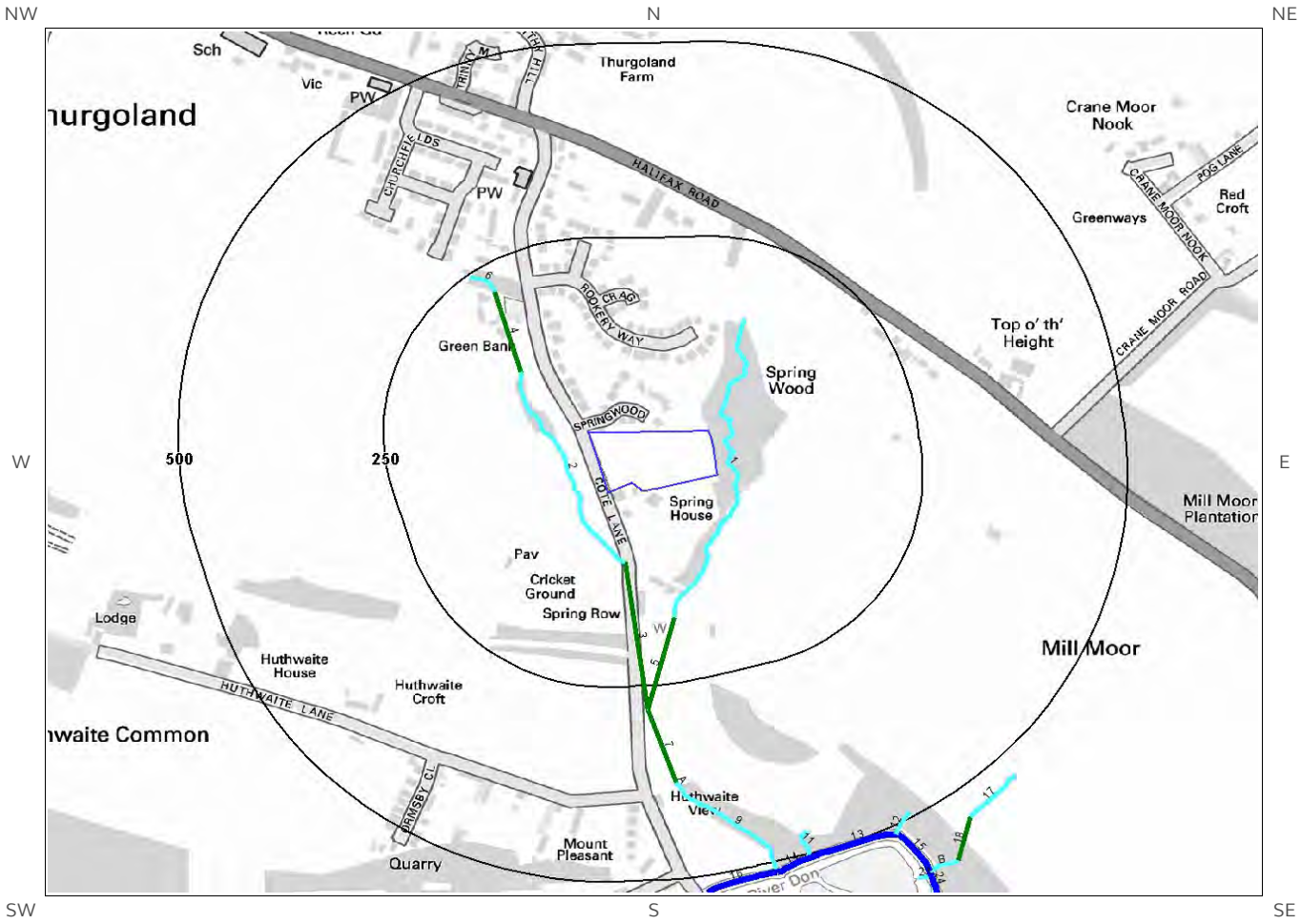
Source Protection Zone 3C - Total Catchment within Confined Aquifer

Site Outline

Potable Water Abstraction Licence

250 — 500 — Search Buffers (m)

6e. Hydrology – Detailed River Network and River Quality



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Site Outline

250 Search Buffers (m)
500

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
6	443	SE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	1864	E	431020 399940	Status: Historical Licence No: 2/27/08/134 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole- Coal Measures - Wortley-Sheffield Data Type: Point Name: WORTLEY GOLF CLUB	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 89 Original Application No: 8106 Original Start Date: 9/3/2004 Expiry Date: 31/3/2017 Issue No: 3 Version Start Date: 13/2/2008 Version End Date:
Not shown	1953	E	431100 399900	Status: Historical Licence No: 2/27/08/108 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole Data Type: Point Name: WORTLEY GOLF CLUB	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 6469 Original Start Date: 24/6/1994 Expiry Date: 30/09/2003 Issue No: 100 Version Start Date: 3/2/1999 Version End Date:
Not shown	1953	E	431100 399900	Status: Historical Licence No: 2/27/08/108 Details: Spray Irrigation - Direct Direct Source: Groundwaters Point: Borehole - Coal Measures - Wortley Sheffield Data Type: Point Name: WORTLEY GOLF CLUB	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 6469 Original Start Date: 24/6/1994 Expiry Date: 30/9/2003 Issue No: 100 Version Start Date: 3/2/1999 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? Yes

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	1231	W	427890 400620	Status: Historical Licence No: 2/27/05/201 Details: Hydroelectric Power Generation Direct Source: Surface Water Point: River Don - The Old Mill - Thurgoland Data Type: Point Name: ROLLINSON	Annual Volume (m^3): 10249200 Max Daily Volume (m^3): 28080 Application No: 8268 Original Start Date: 4/9/2007 Expiry Date: 31/3/2017 Issue No: 2 Version Start Date: 5/3/2008 Version End Date:

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
330	NE	Minor Aquifer/High Leaching Potential	H3	Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content.

6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? Yes

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

					Chemical Quality Grade				
ID	Distance (m)	Direction	NGR	River Quality Grade	2005	2006	2007	2008	2009
Not shown	1132	W	428063 401058	River Name: River Don Reach: Cheesebottom Stw Little Don River End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A
Not shown	1132	W	428063 401058	River Name: River Don Reach: Cubley Brook Cheesebottom Stw End/Start of Stretch: End of Stretch NGR	A	A	A	A	A

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

ID	Distance (m)	Direction	Details	
1	14	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
2	35	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
3	91	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
4	113	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
5	166	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
6	215	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
7	281	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
8A	377	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
9	382	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
10A	382	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
11	471	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
12	493	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

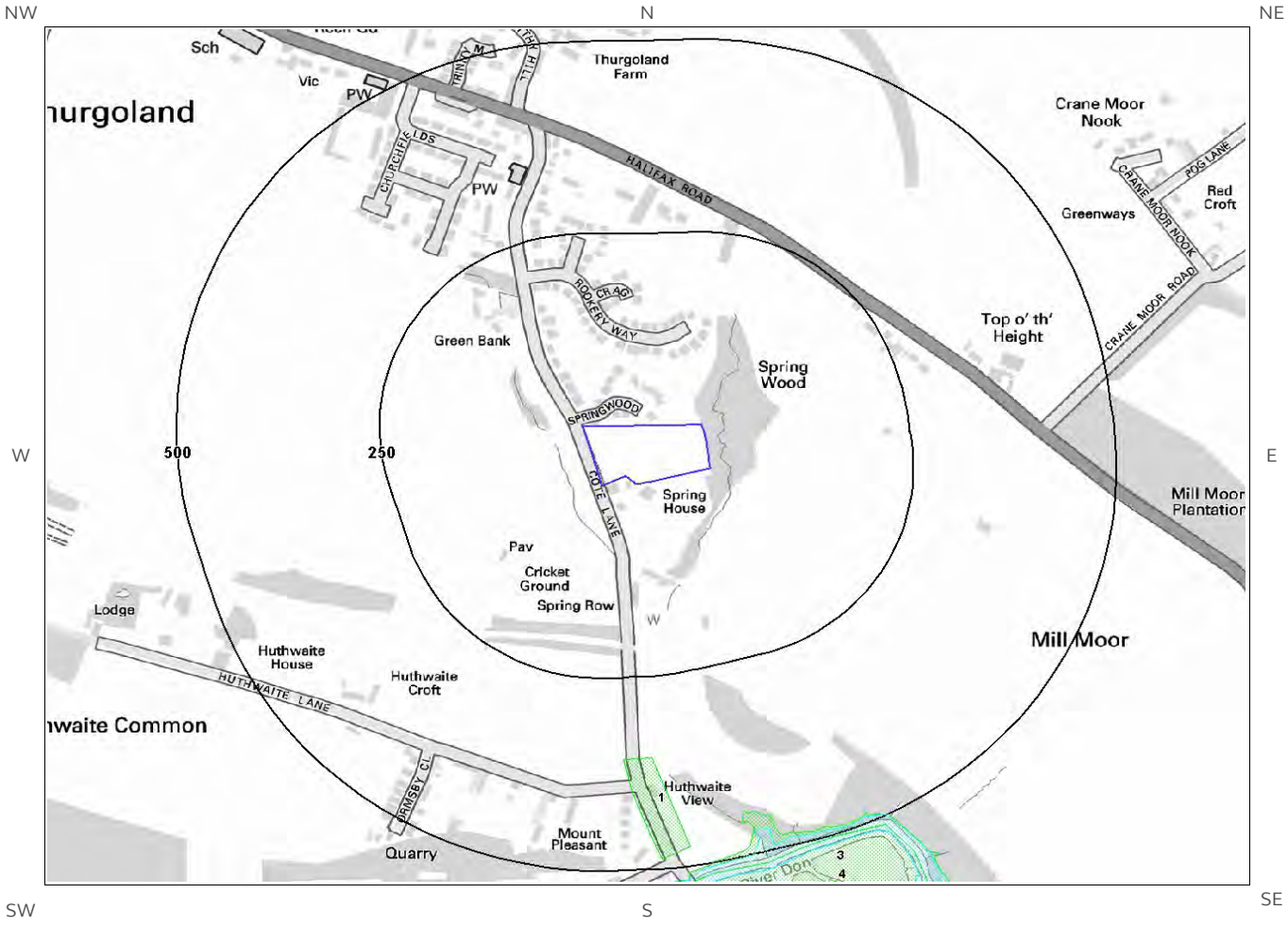
6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
14	E
35	W
46	W
138	S
215	NW

7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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Site Outline

Search Buffers (m) — 100 — 250

Zone 2 Floodplain

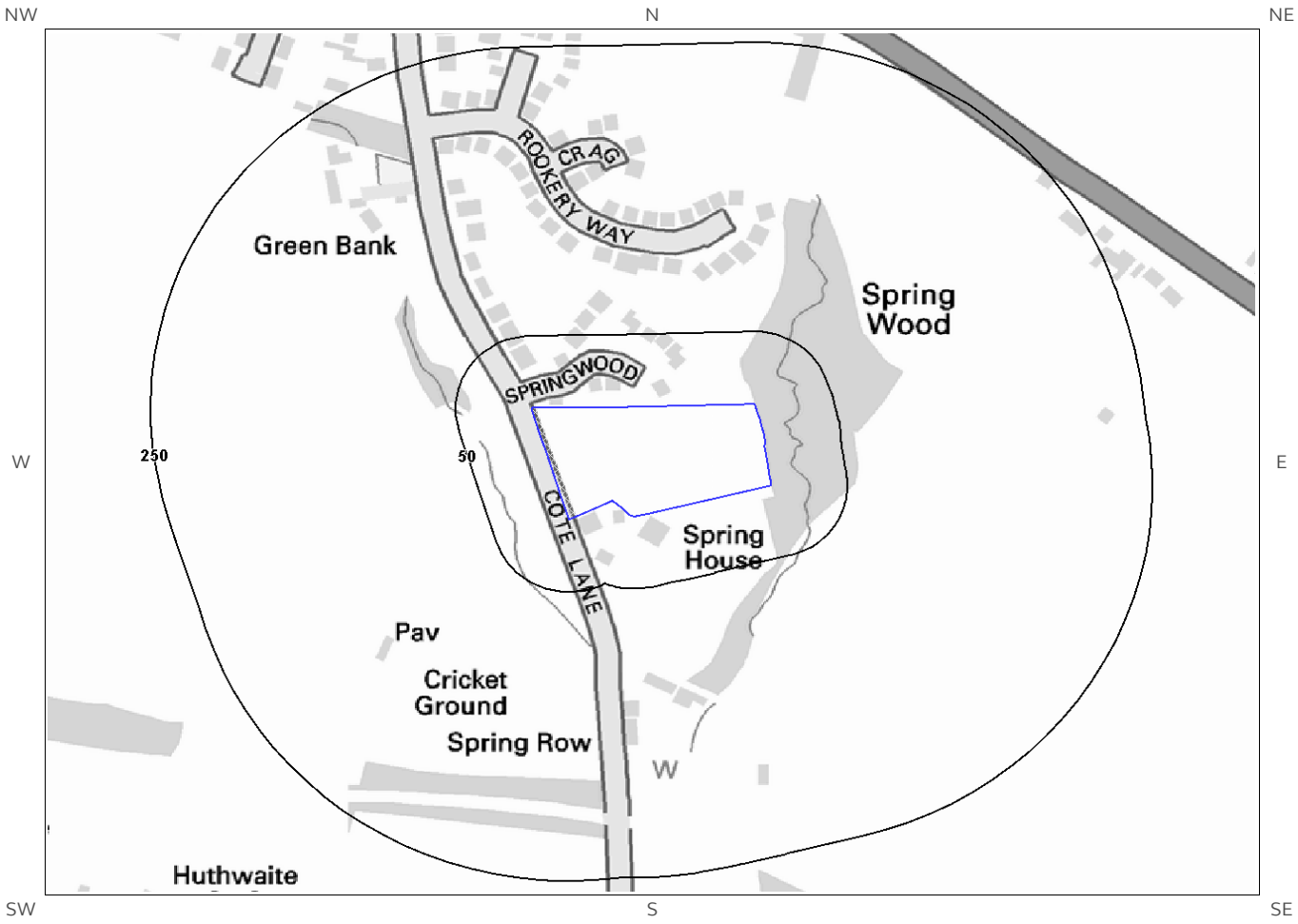
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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Site Outline

100 250 Search Buffers (m)

RoFRaS Rating

Very Low

Low

Medium

High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? No

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? No

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

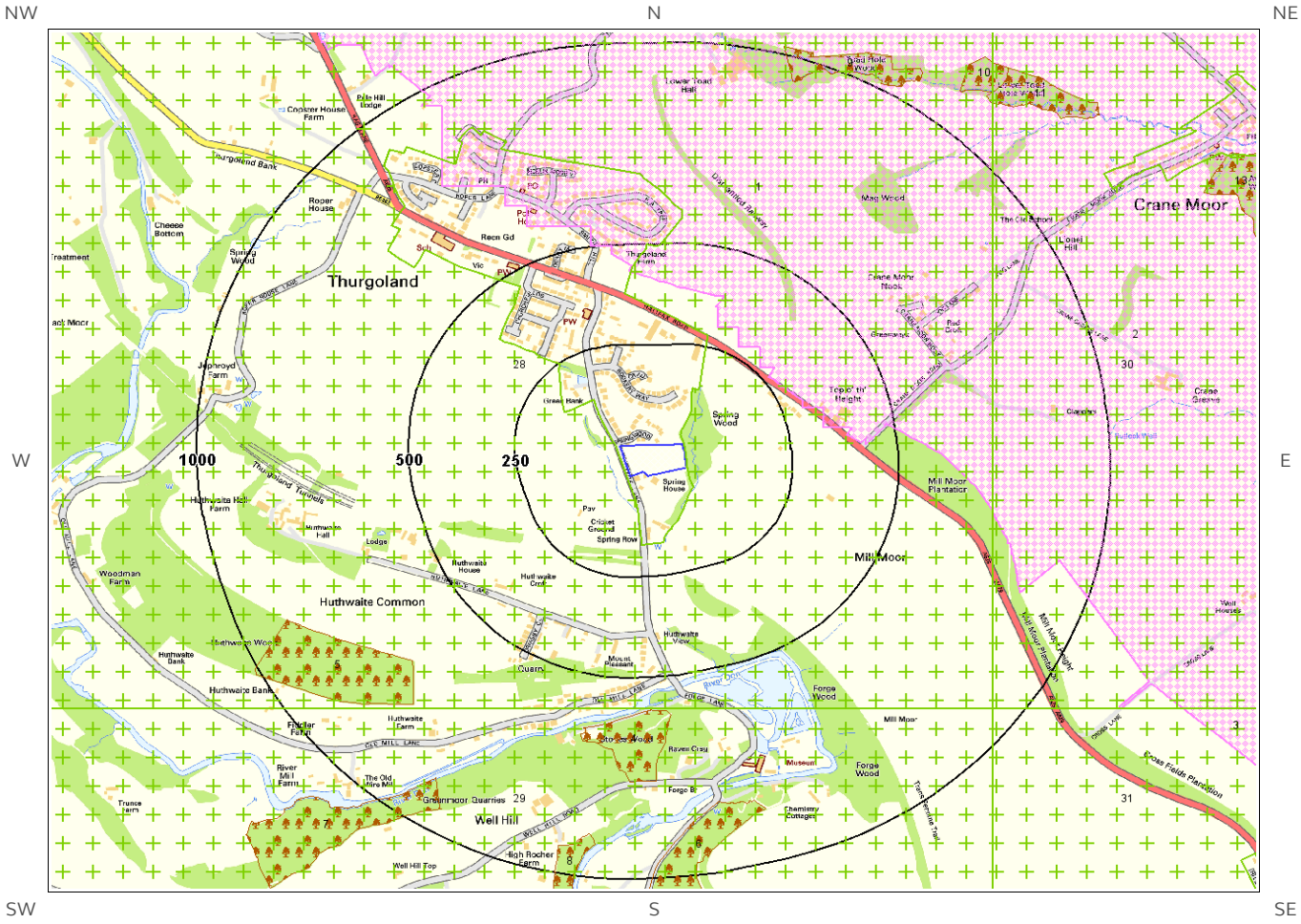
7.8 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result? Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?	Yes

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
4	581	S	UNKNOWN	Ancient and Semi-Natural Woodland
5	688	SW	UNKNOWN	Ancient and Semi-Natural Woodland
6	825	S	UNKNOWN	Ancient and Semi-Natural Woodland
7	878	SW	UNKNOWN	Ancient and Semi-Natural Woodland
8	893	S	UNKNOWN	Ancient Replanted Woodland
9	941	N	UNKNOWN	Ancient and Semi-Natural Woodland
10	1097	NE	UNKNOWN	Ancient Replanted Woodland
11	1120	NE	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1337	N	UNKNOWN	Ancient Replanted Woodland
13	1381	NE	UNKNOWN	Ancient Replanted Woodland
Not shown	1551	W	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1591	NE	UNKNOWN	Ancient Replanted Woodland
Not shown	1617	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1671	N	UNKNOWN	Ancient Replanted Woodland
Not shown	1690	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1717	NW	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1724	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1806	NE	UNKNOWN	Ancient Replanted Woodland
Not shown	1818	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1829	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1839	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1845	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1869	NE	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1895	NE	UNKNOWN	Ancient Replanted Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

3

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	265	NE	Existing	DEFRA
2	723	E	Existing	DEFRA
3	1317	SE	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

5

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
28	1	E	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
29	577	S	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
30	723	E	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
31	940	SE	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)
Not shown	1696	S	Liverpool, Manchester and West Yorks Greenbelt	Sheffield District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell*[*] hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand*[*] hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

* This indicates an automatically generated 50m buffer and site.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? Yes

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Sheffield Area	Vein Mineral/Iron ore	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No
Guidance: No Guidance Required.

Contact Details

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Telephone: (0)1924 360458
mdja@geoenvironmental.co.uk

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: **www.environment-agency.gov.uk**
Email: enquiries@environment-agency.gov.uk

Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority
Authority: Barnsley Metropolitan Borough Council
Phone: 01226 770770
Web: http://www.barnsley.gov.uk/
Address: PO Box 634, Barnsley, South Yorkshir, S70 9GG

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

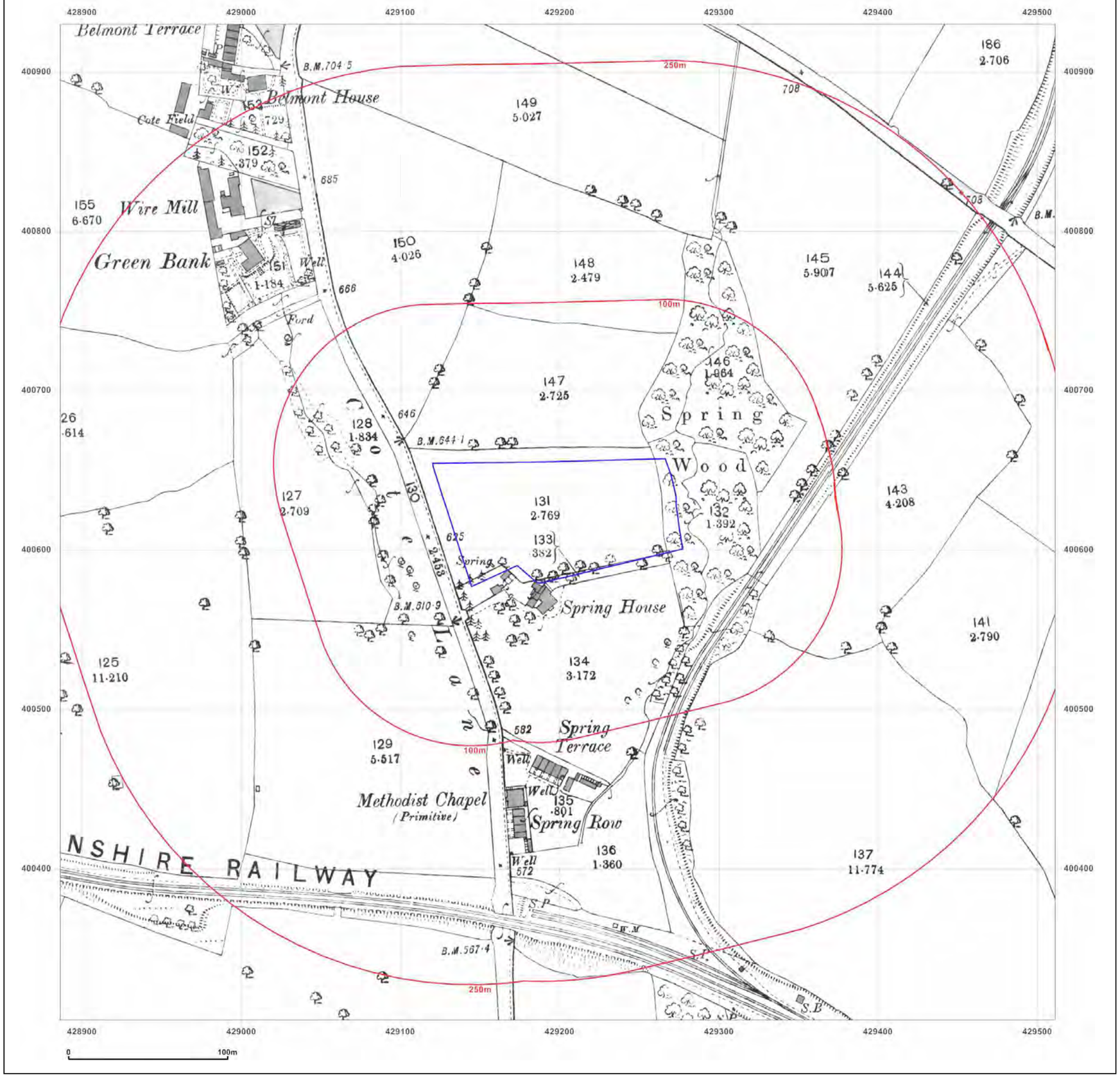
Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.
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APPENDIX 5

Historical Mapping



mdja

Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

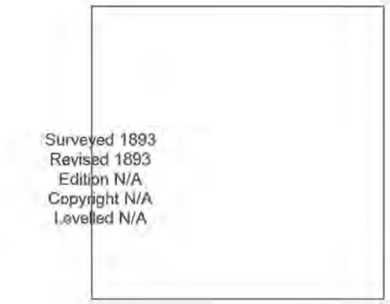
Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
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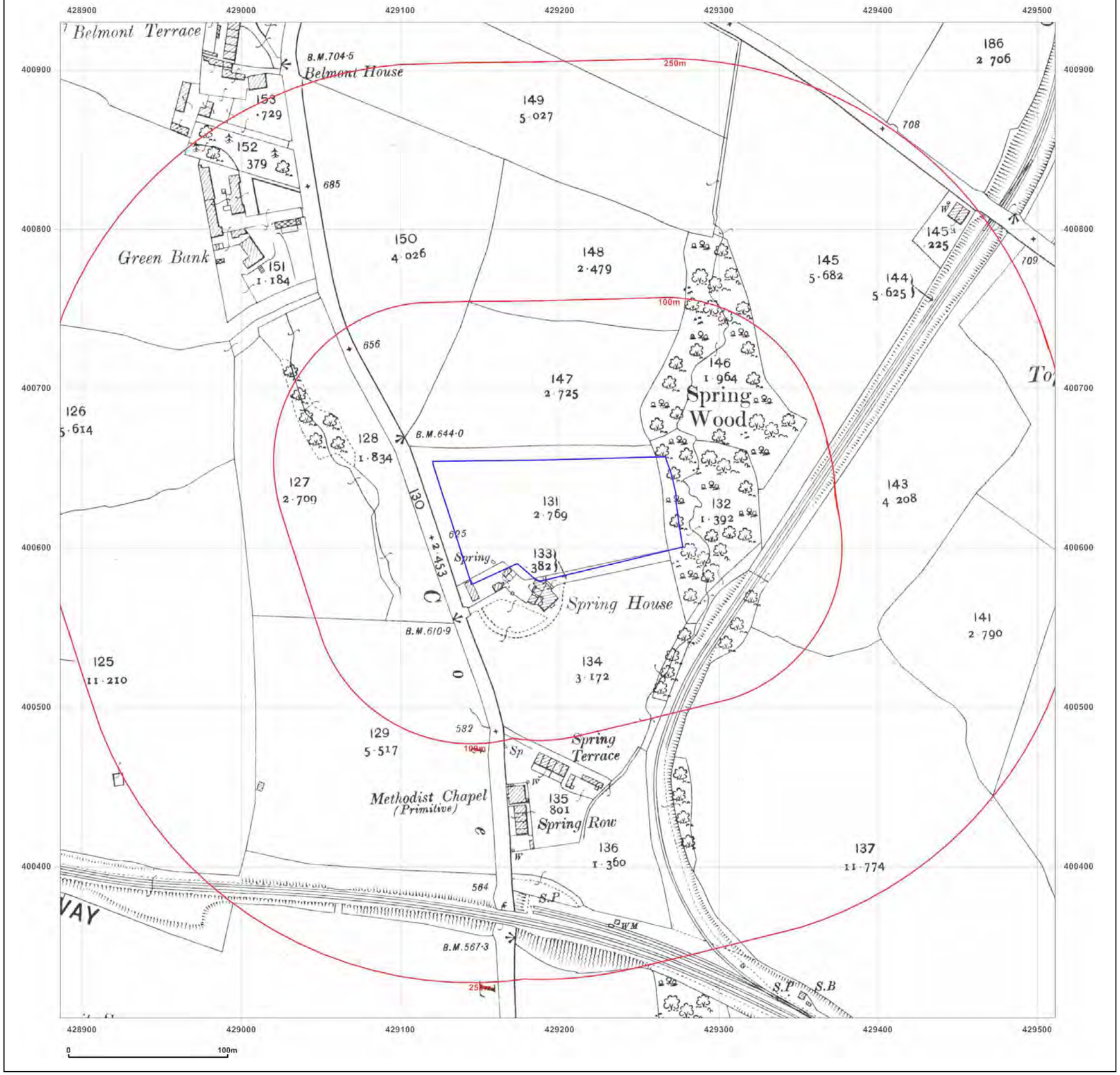
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Production date: 03 July 2017

To view map legend click here *Legend*



mdja

Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

Map Name: County Series

Map date: **1905**

Scale: 1:2,500

Printed at: 1:2,500

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

Groundsure INSIGHTS

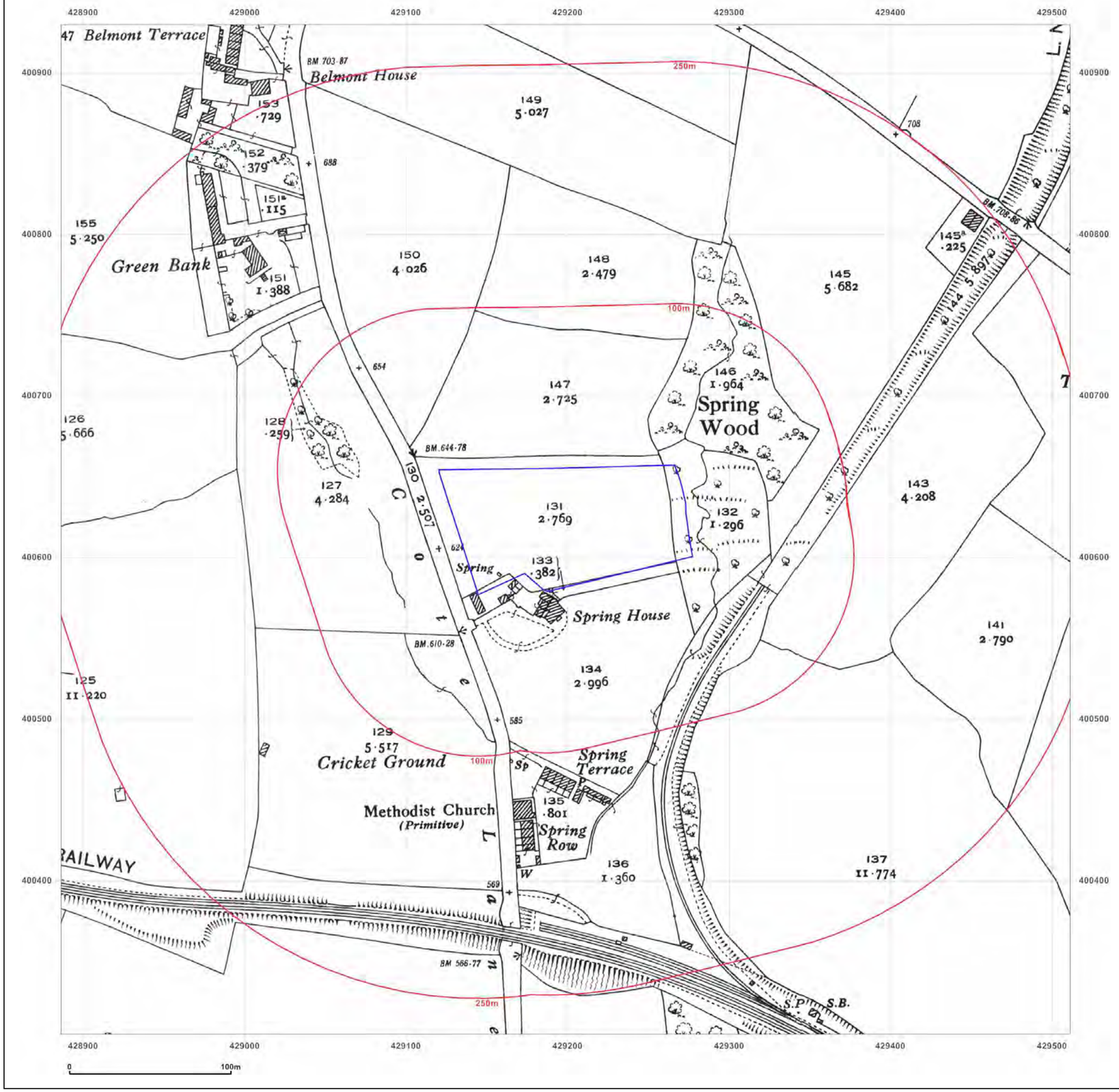
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Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

Map Name: County Series

Map date: **1931**

Scale: 1:2,500

Printed at: 1:2,500

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

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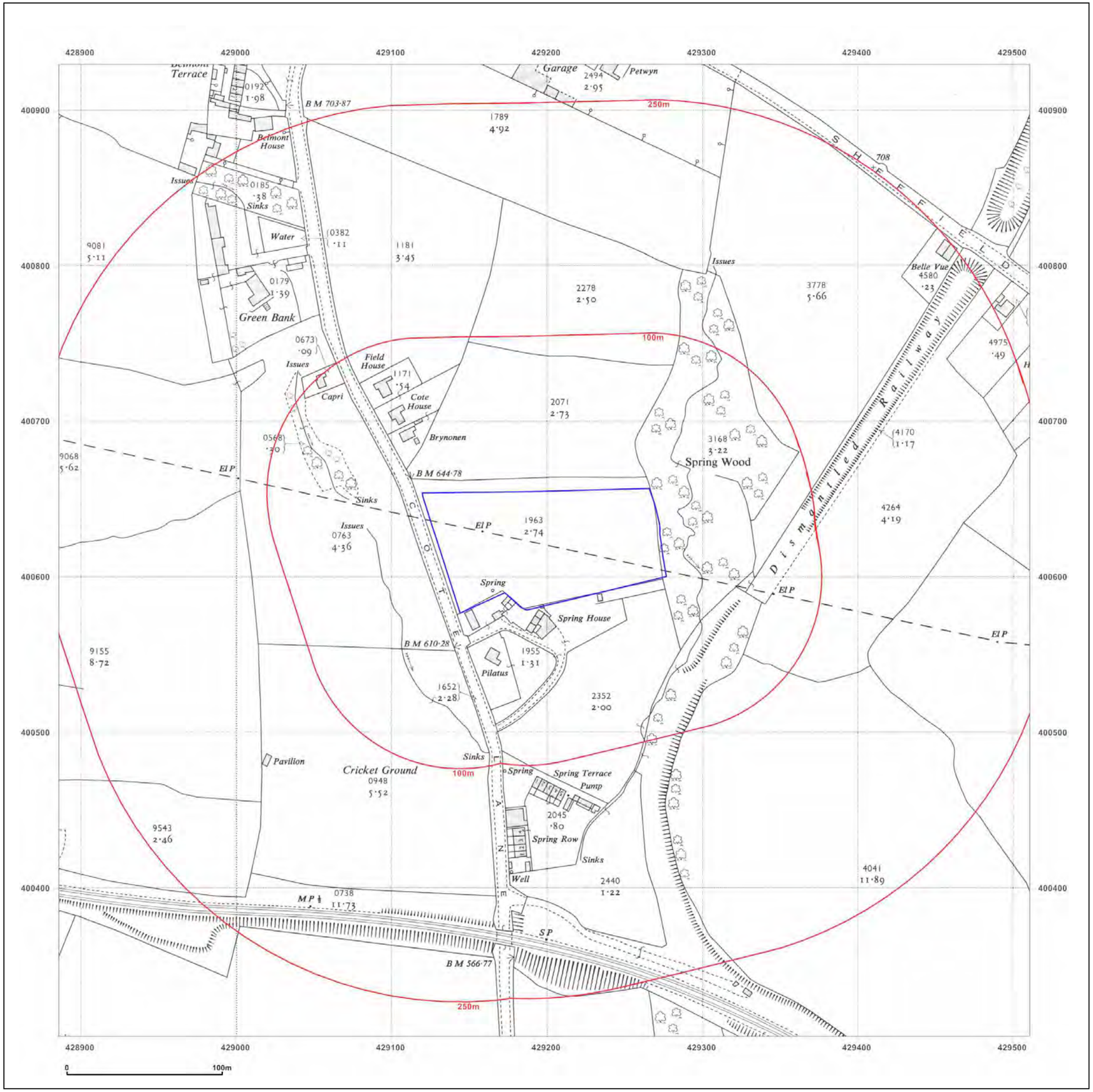
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Production date: 03 July 2017

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Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1930

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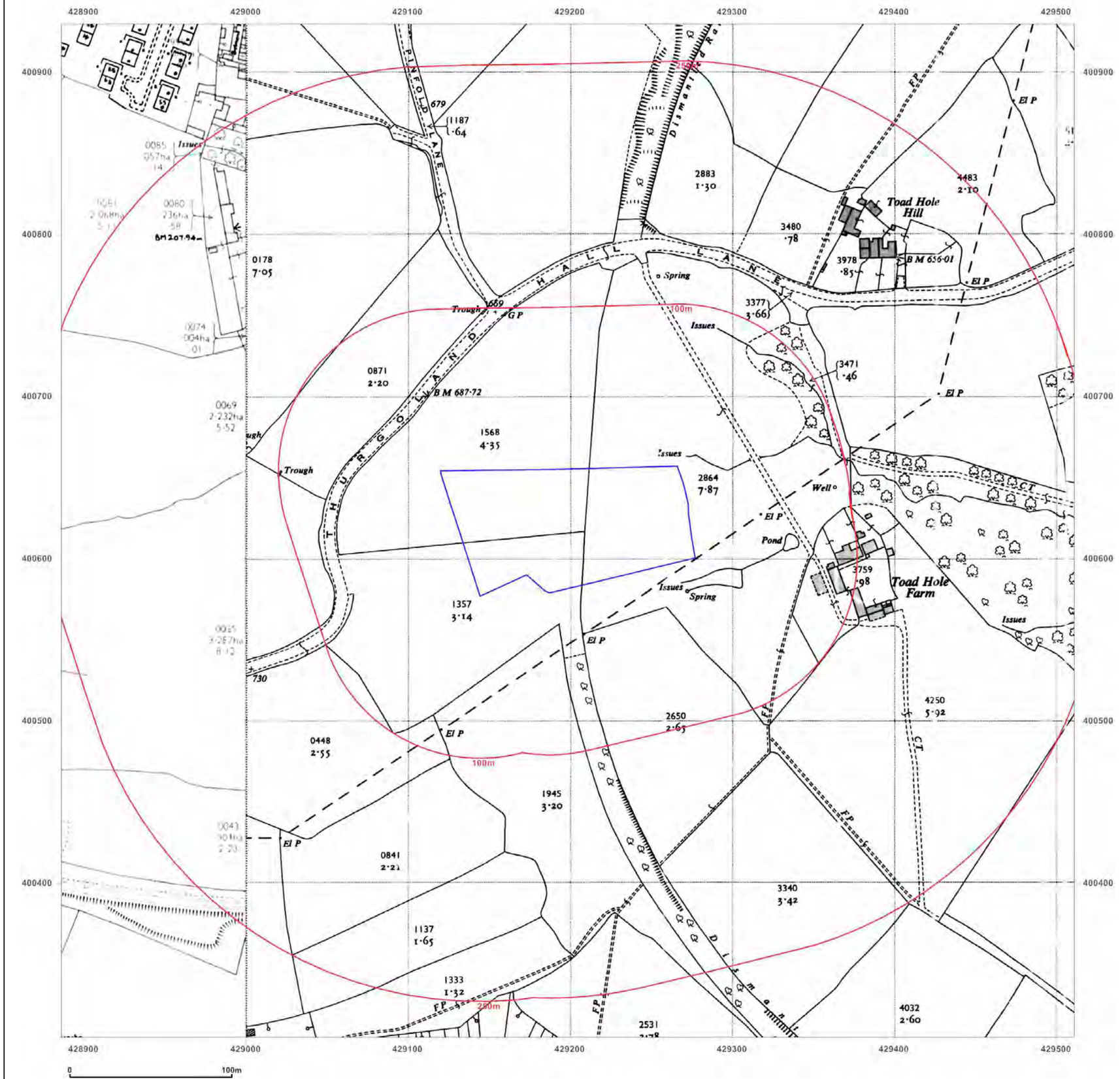
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Production date: 03 July 2017

To view map legend click here *Legend*



mdja

Site Details:

429222, 400661

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Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

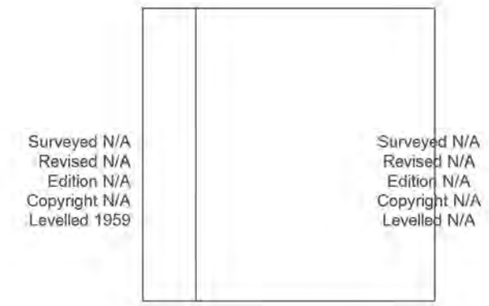
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Map date: **1959-1960**

Scale: 1:2,500

Printed at: 1:2,500

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S



Groundsure INSIGHTS

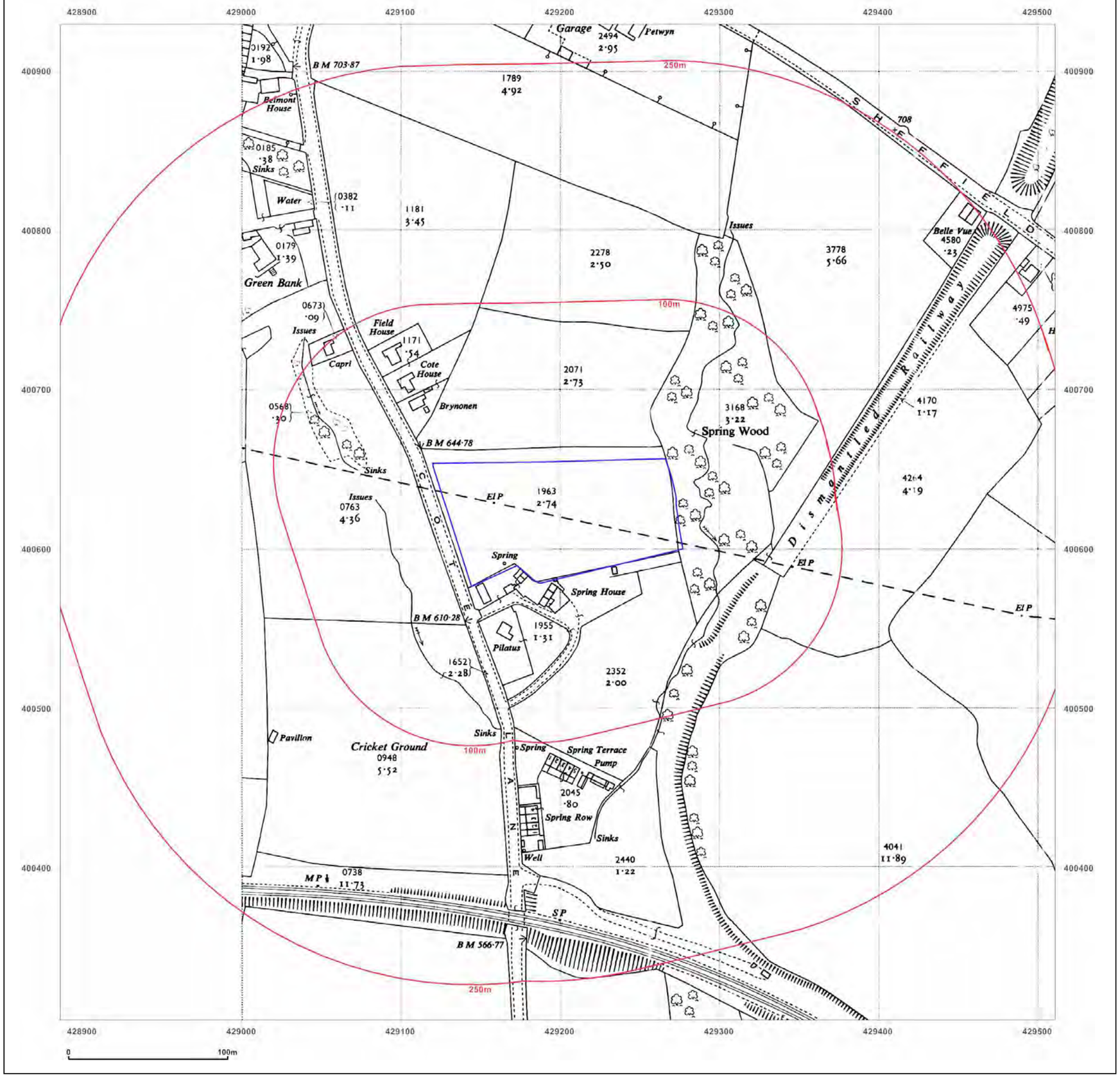
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mdja

Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

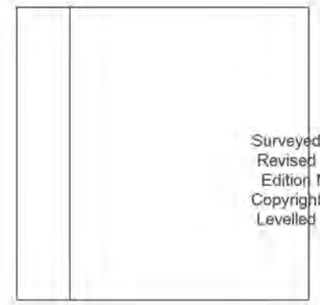
Map Name: National Grid

Map date: **1960**

Scale: 1:2,500

Printed at: 1:2,500

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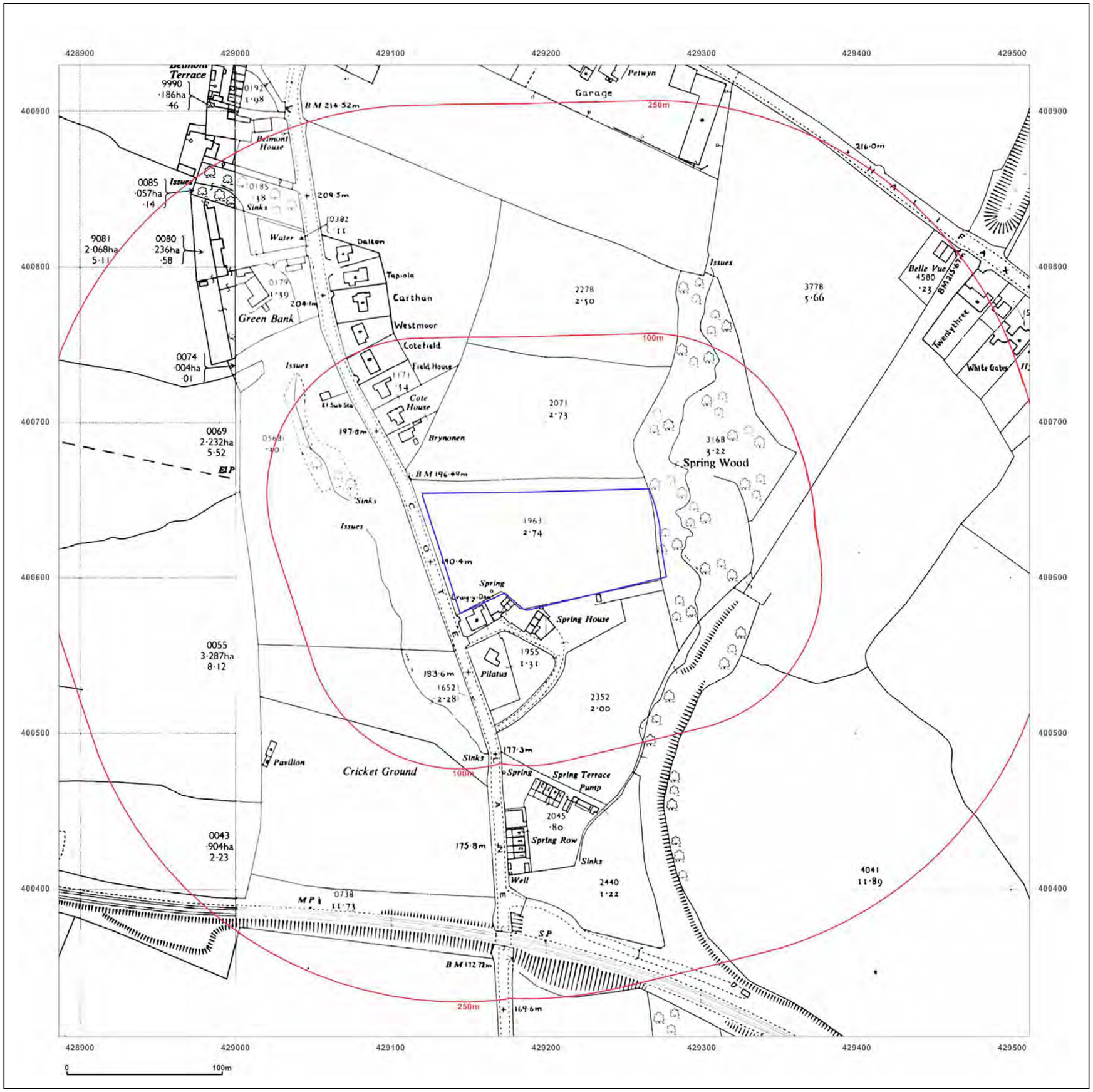
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Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

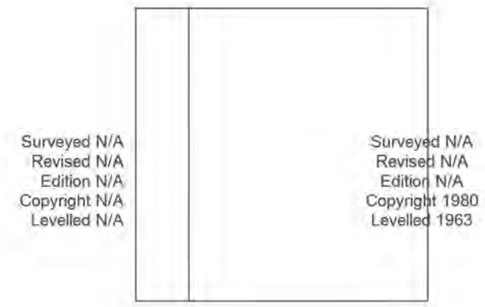
Map Name: National Grid

Map date: **1977-1980**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

429222, 400661

Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

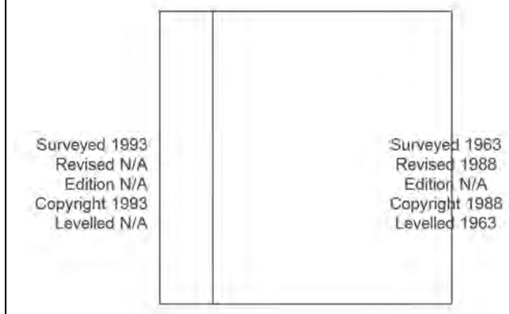
Map Name: National Grid

Map date: **1988-1993**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

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Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

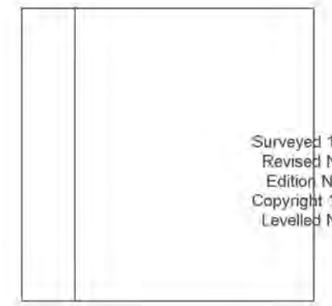
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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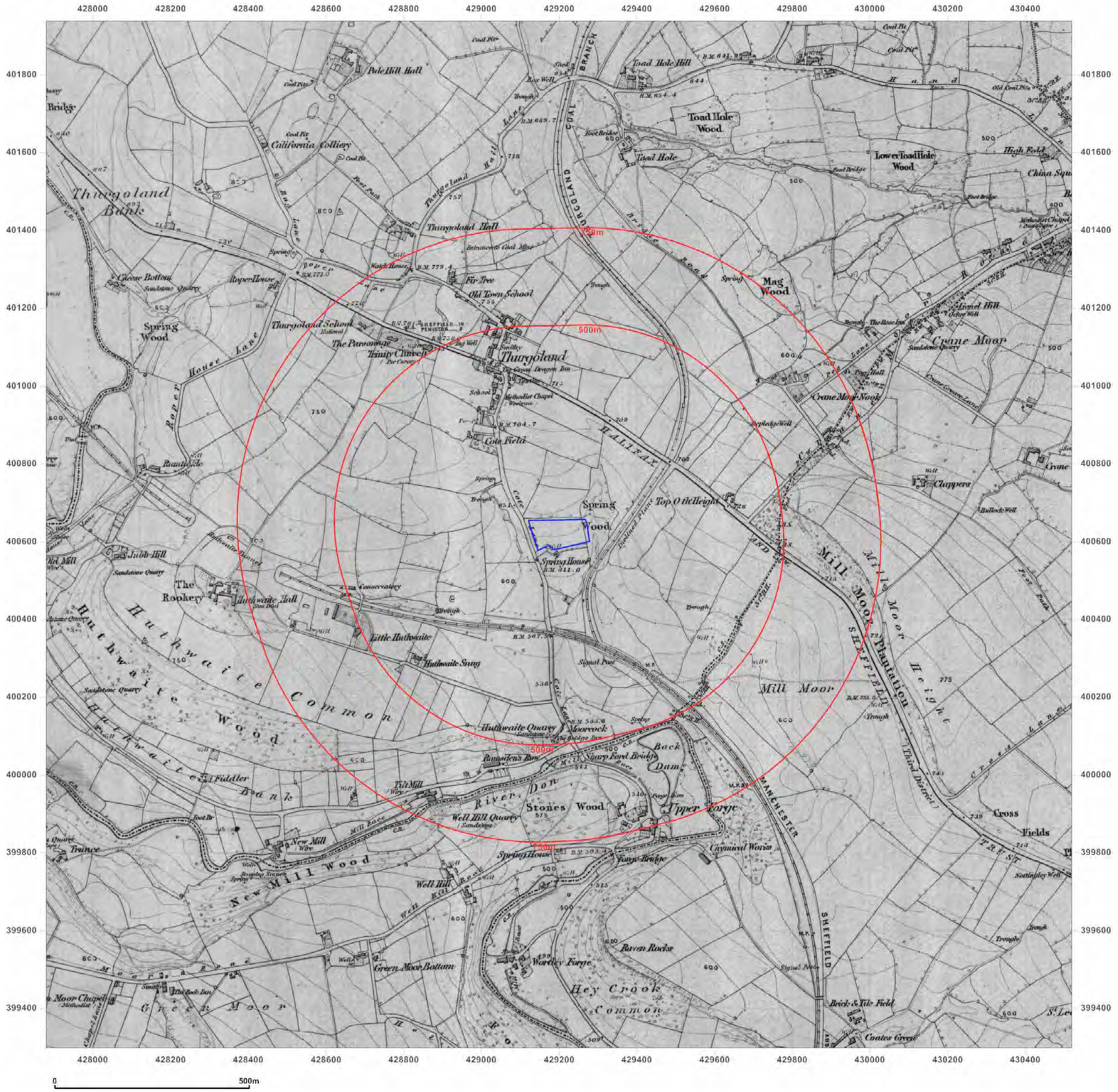
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Site Details:

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Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

Map Name: County Series

Map date: **1855**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

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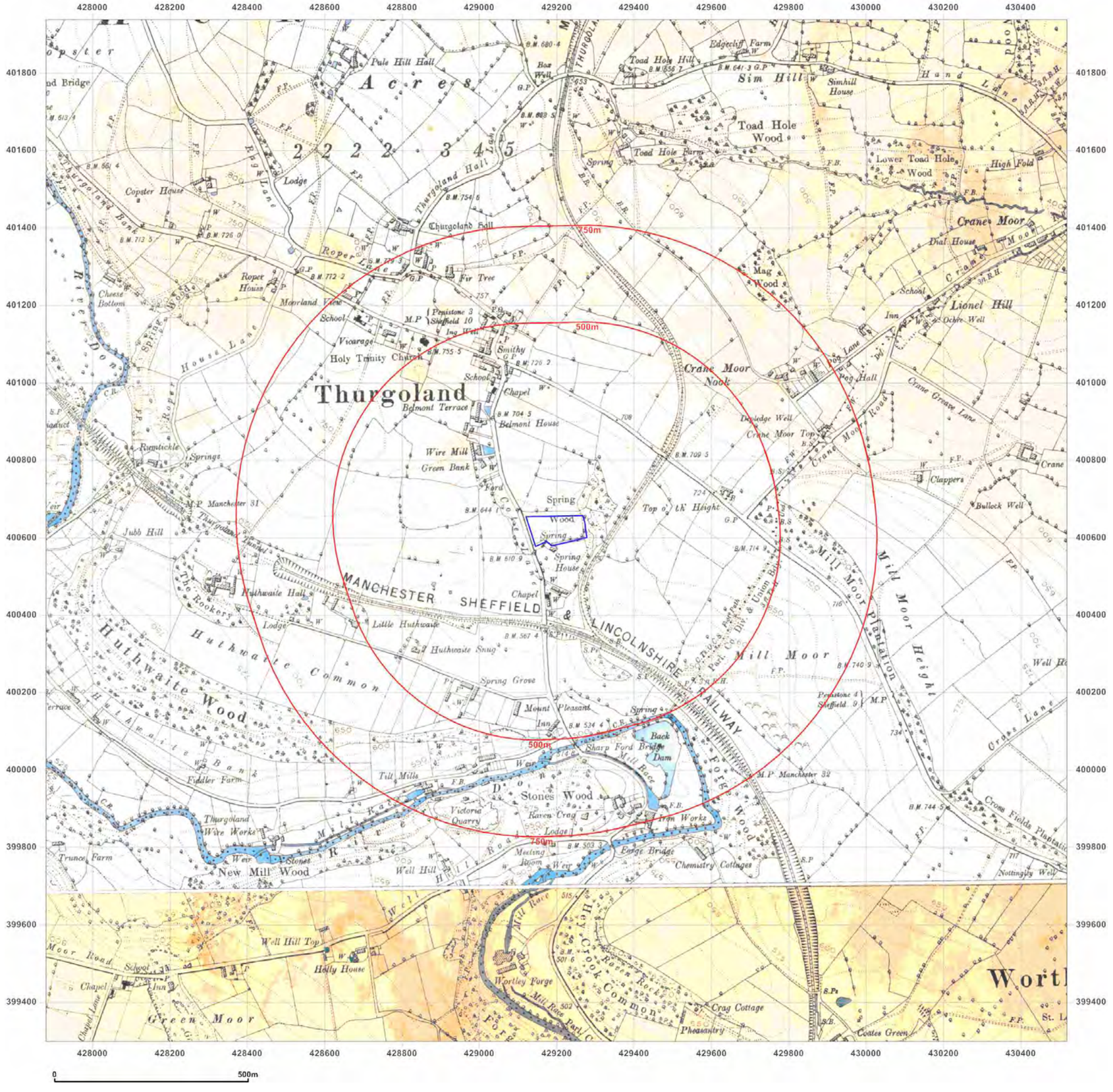
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Site Details:

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Client Ref: Cote_Lane_-_Thurgoland
Report Ref: HMD-354-4038825
Grid Ref: 429199, 400617

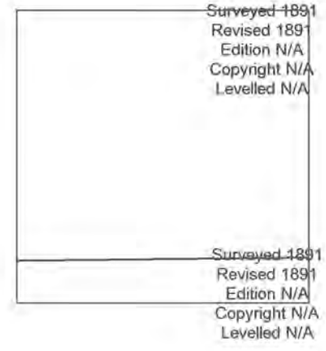
Map Name: County Series

Map date: **1891**

Scale: 1:10,560

Printed at: 1:10,560

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