

# Geo Insight

**Address:** HAMBLE AIRFIELD, HAMBLE-LE-RICE, SO31 4HU  
**Date:** 8 Mar 2018  
**Reference:** GS-4789427  
**Client:** Ground Condition Consultants Ltd

NW N NE

W E



SW S SE

Aerial Photograph Capture date: 04-Jun-2013  
Grid Reference: 447792,107868  
Site Size: 61.11ha

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# Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale		
1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	No
Section 2: Geology 1:50,000 Scale		
2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

## Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features

2.3.1 For records of Bedrock and Solid Geology beneath the study site\* see the detailed findings section.

2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

No

## Section 3: Radon

3. Radon

3.1 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.

3.2 Radon Protection

No radon protective measures are necessary.

## Section 4: Ground Workings

	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	2	10	27	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	2	2	9

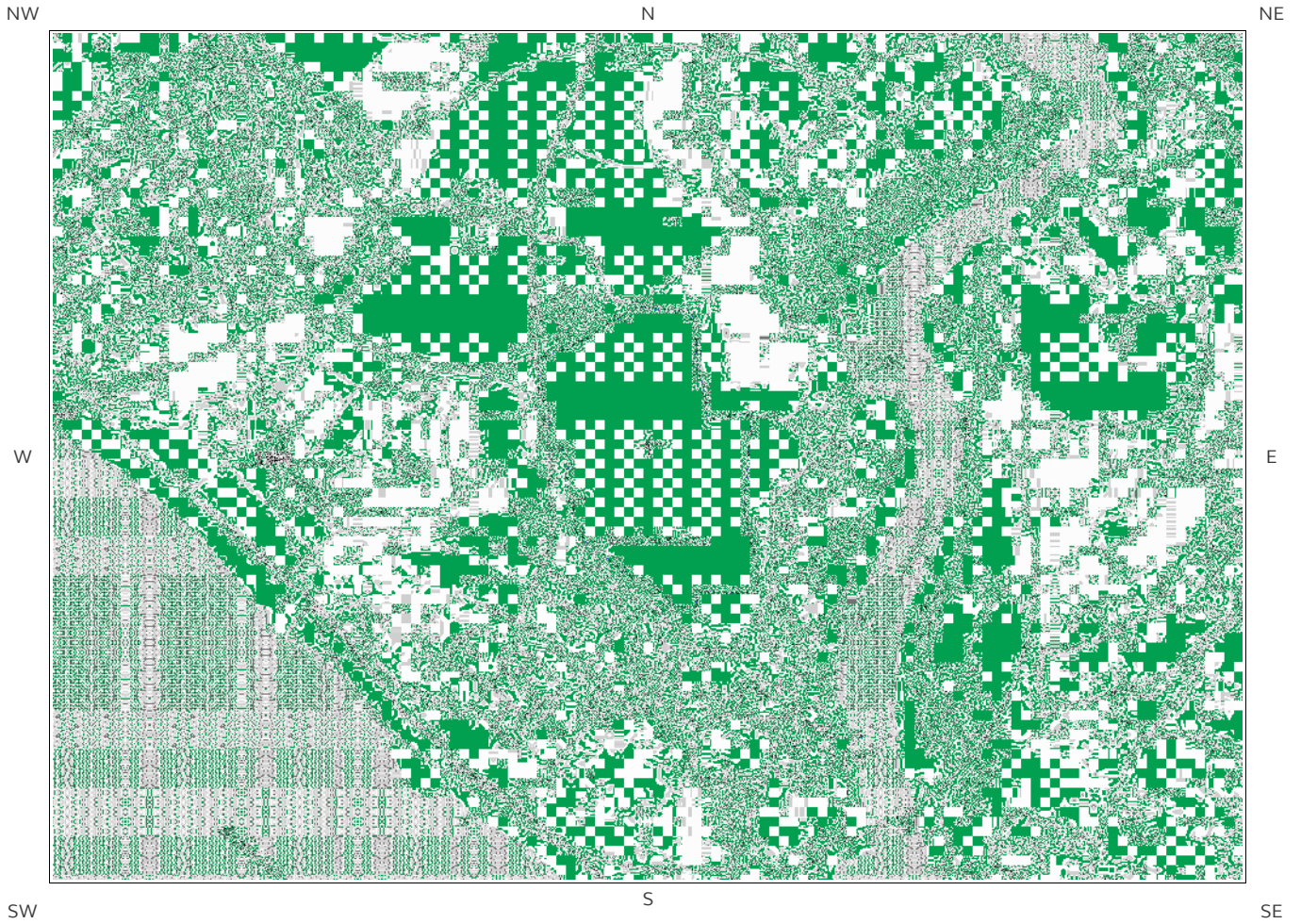
## Section 5: Mining, Extraction & Natural Cavities

	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	0	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	0	0	0	0	0
5.5 Non-Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	0	0	0	0	0

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0
<b>Section 6: Natural Ground Subsidence</b>					
	On-site				
6.1 Shrink-Swell Clay	Moderate				
6.2 Landslides	Very Low				
6.3 Ground Dissolution of Soluble Rocks	Negligible				
6.4 Compressible Deposits	Negligible				
6.5 Collapsible Deposits	Very Low				
6.5 Running Sand	Very Low				
<b>Section 7: Borehole Records</b>					
	On-site	0-50m	51-250		
7 BGS Recorded Boreholes	2	3	1		
<b>Section 8: Estimated Background Soil Chemistry</b>					
	On-site	0-50m	51-250		
8 Records of Background Soil Chemistry	17	18	0		
<b>Section 9: Railways and Tunnels</b>					
	On-site	0-50m	51-250	250-500	
9.1 Tunnels	0	0	0	Not Searched	
9.2 Historical Railway and Tunnel Features	0	4	7	Not Searched	
9.3 Historical Railways	0	2	2	Not Searched	
9.4 Active Railways	0	12	2	Not Searched	
9.5 Railway Projects	0	0	0	0	



# 1:10,000 Scale Availability



1\_10,000 Availability Legend

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# Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	No coverage
N2	1609.0	Some deposits are mapped	Full	Full	No coverage
N3	1830.0	Some deposits are mapped	Full	Full	No coverage

Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

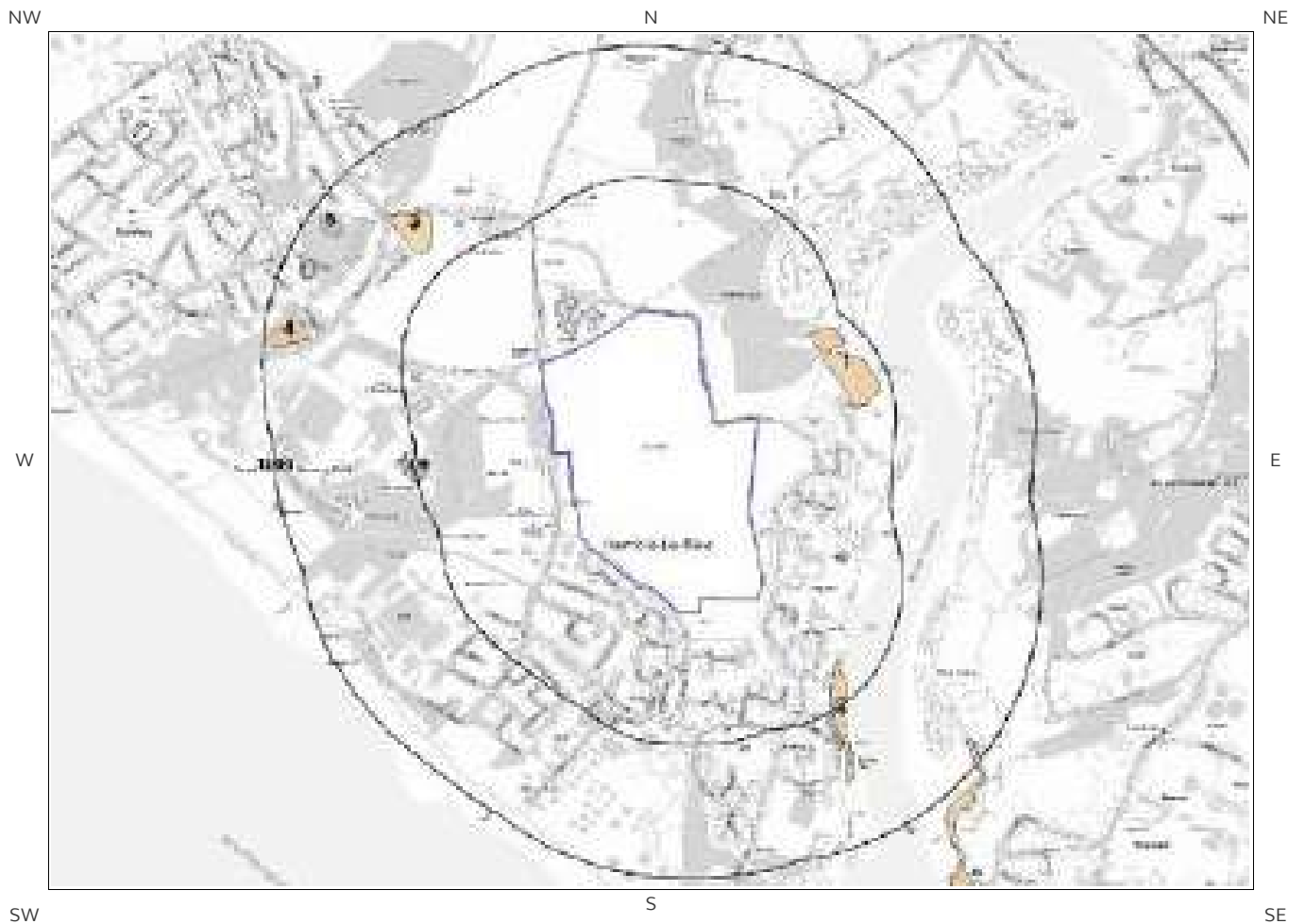
The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage



# 1 Geology (1:10,000 scale).

## 1.1 Artificial Ground map (1:10,000 scale)



**Artificial Ground Legend**

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# 1. Geology 1:10,000 scale

## 1.1 Artificial Ground

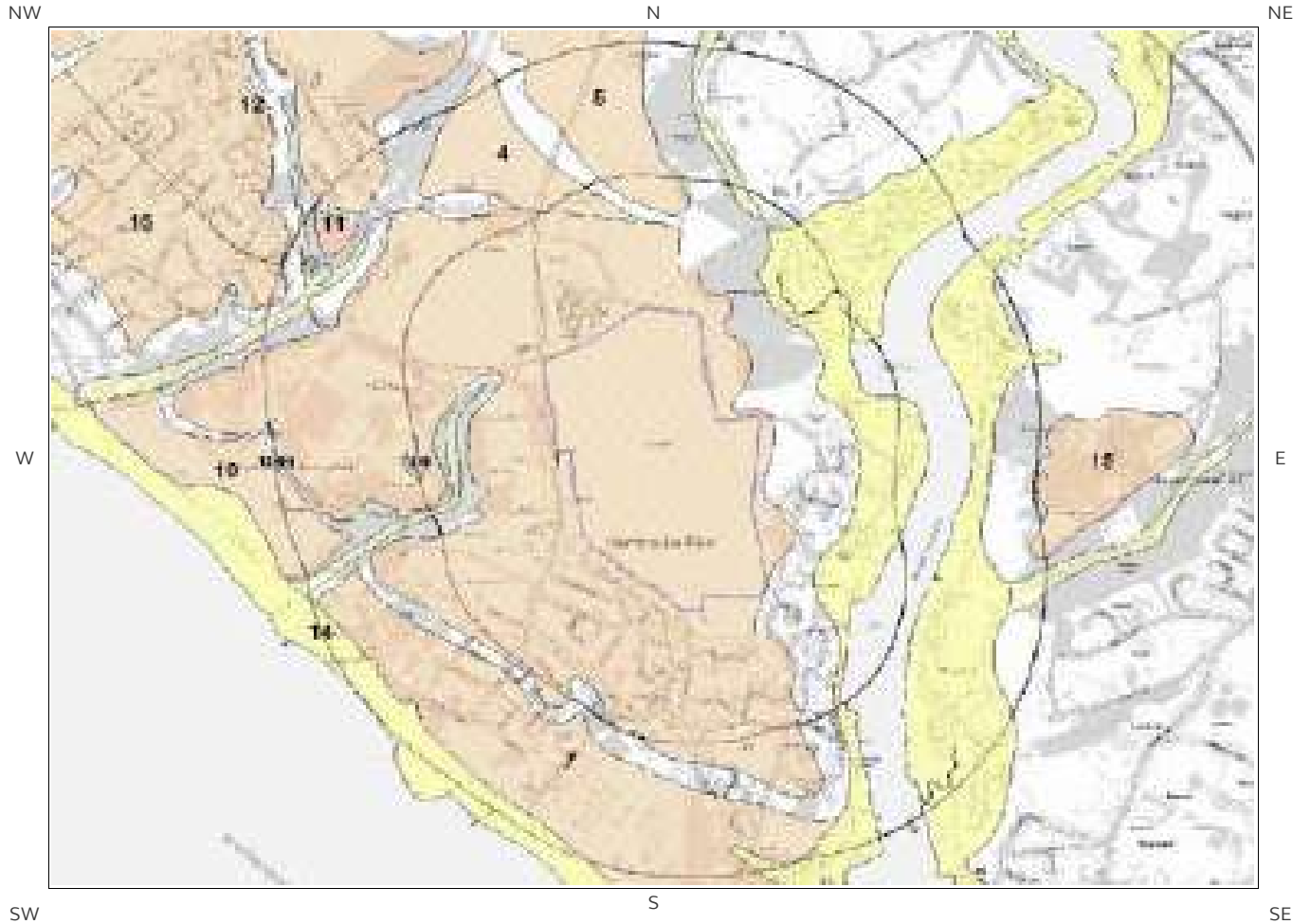
The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	324.0	NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	350.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

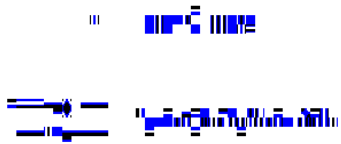
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# 1.2 Superficial Deposits and Landslips map (1:10,000 scale)



**Artificial Ground Legend**

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# 1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

## 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	RTD3-XSV	River Terrace Deposits, 3 - Sand And Gravel	Sand And Gravel
2	164.0	E	TFD-XCZ	Tidal Flat Deposits - Clay And Silt	Clay And Silt
3	219.0	W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
4	321.0	N	RTD4-XSV	River Terrace Deposits, 4 - Sand And Gravel	Sand And Gravel
5	358.0	N	RTD5-XSV	River Terrace Deposits, 5 - Sand And Gravel	Sand And Gravel
6	426.0	NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

## 1.2.2 Landslip

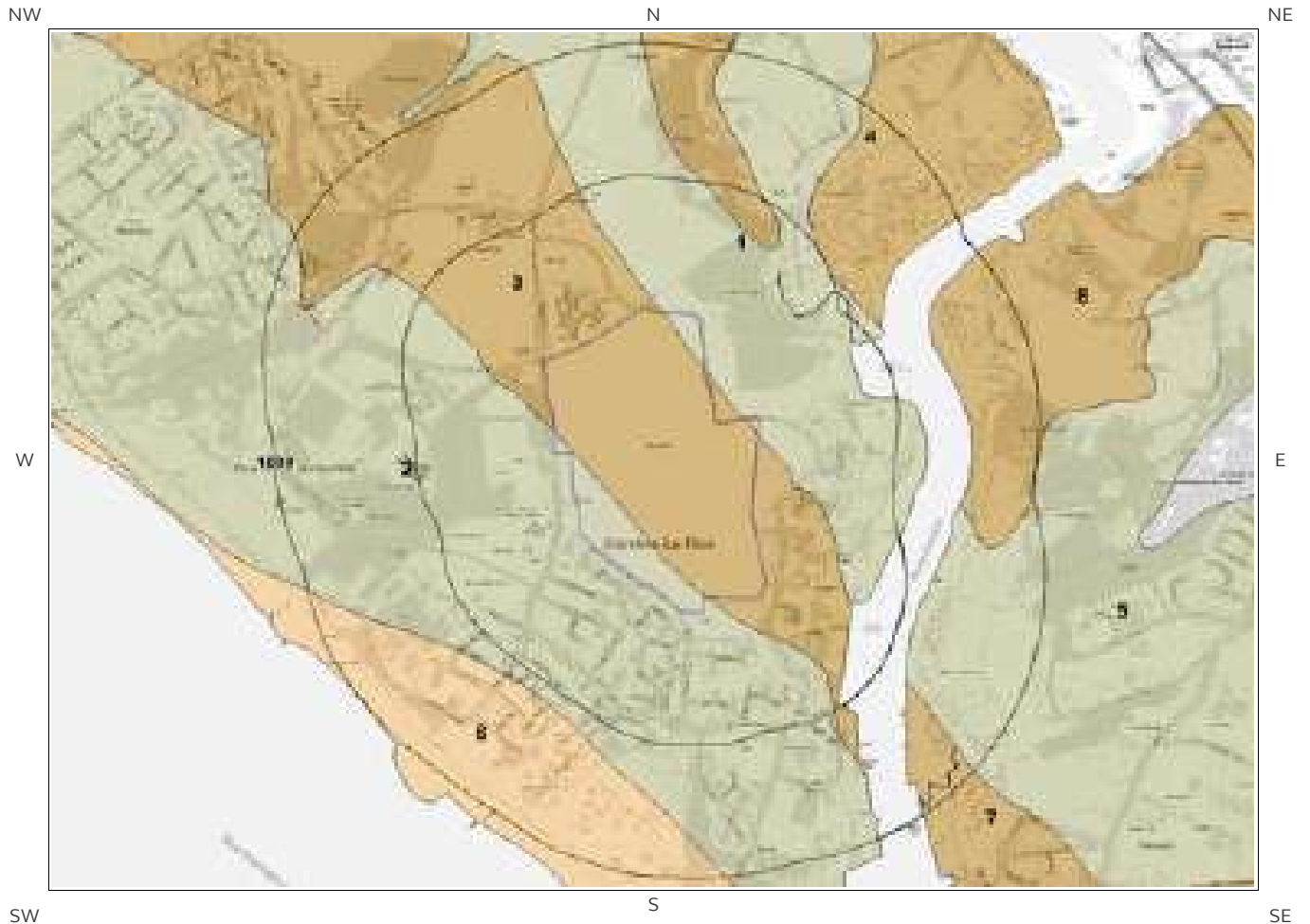
Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

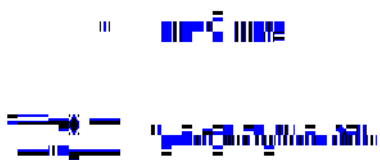
This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

# 1.3 Bedrock and linear features map (1:10,000 scale)



**Bedrock and linear features Legend**

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# 1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	EA-SSCL	Earnley Sand Formation - Sand, Silt And Clay	Lutetian Age
2	0.0	On Site	SLSY-SSCL	Selsey Sand Formation - Sand, Silt And Clay	Lutetian Age
3	0.0	On Site	MARF-CLSISA	Marsh Farm Formation - Clay, Silt And Sand	Lutetian Age
4	353.0	NE	WTT-CLSISA	Wittering Formation - Clay, Silt And Sand	Lutetian Age - Ypresian Age

## 1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? No

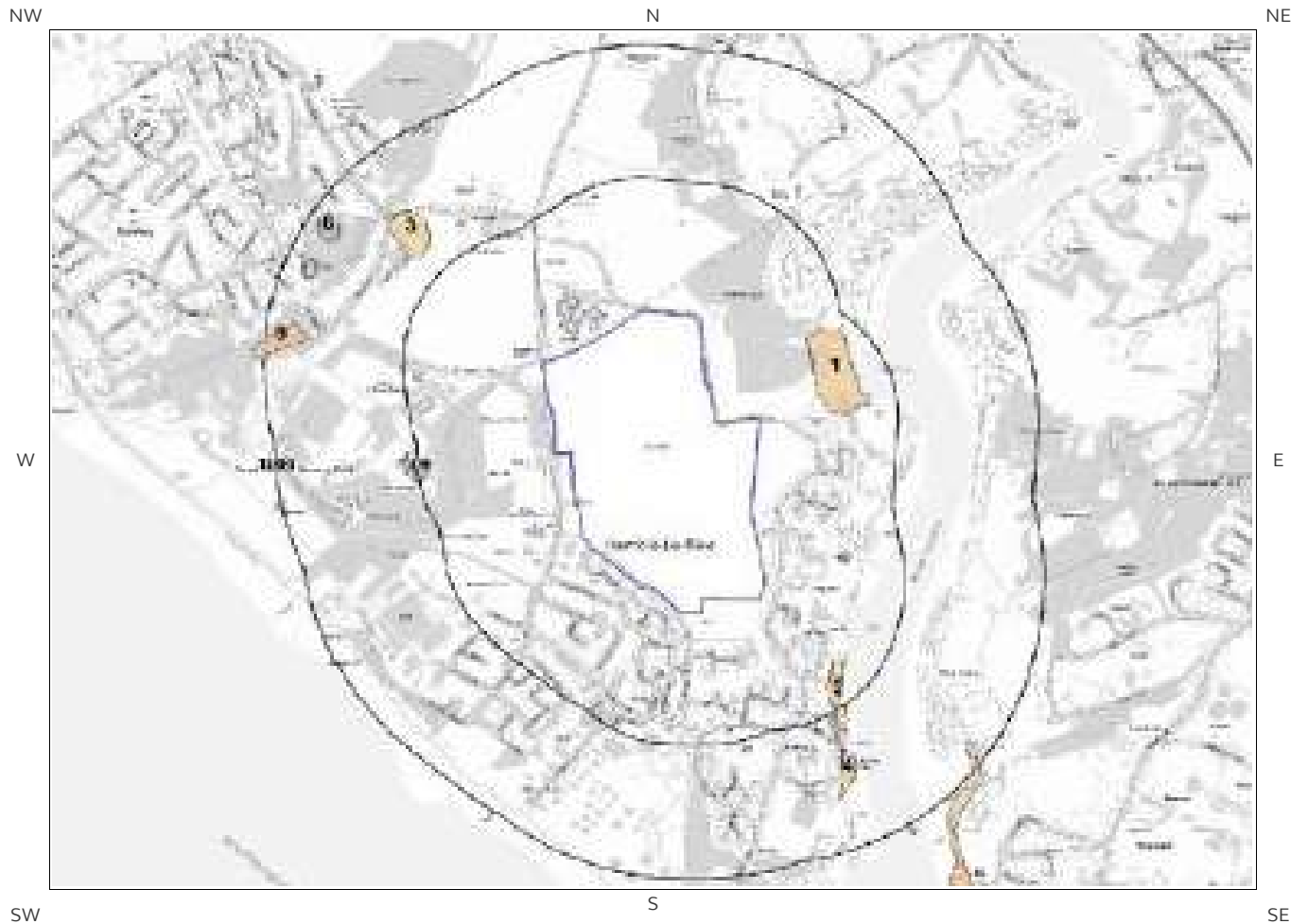
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

# 2 Geology 1:50,000 Scale

## 2.1 Artificial Ground map



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## 2. Geology 1:50,000 scale

### 2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 315

#### 2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

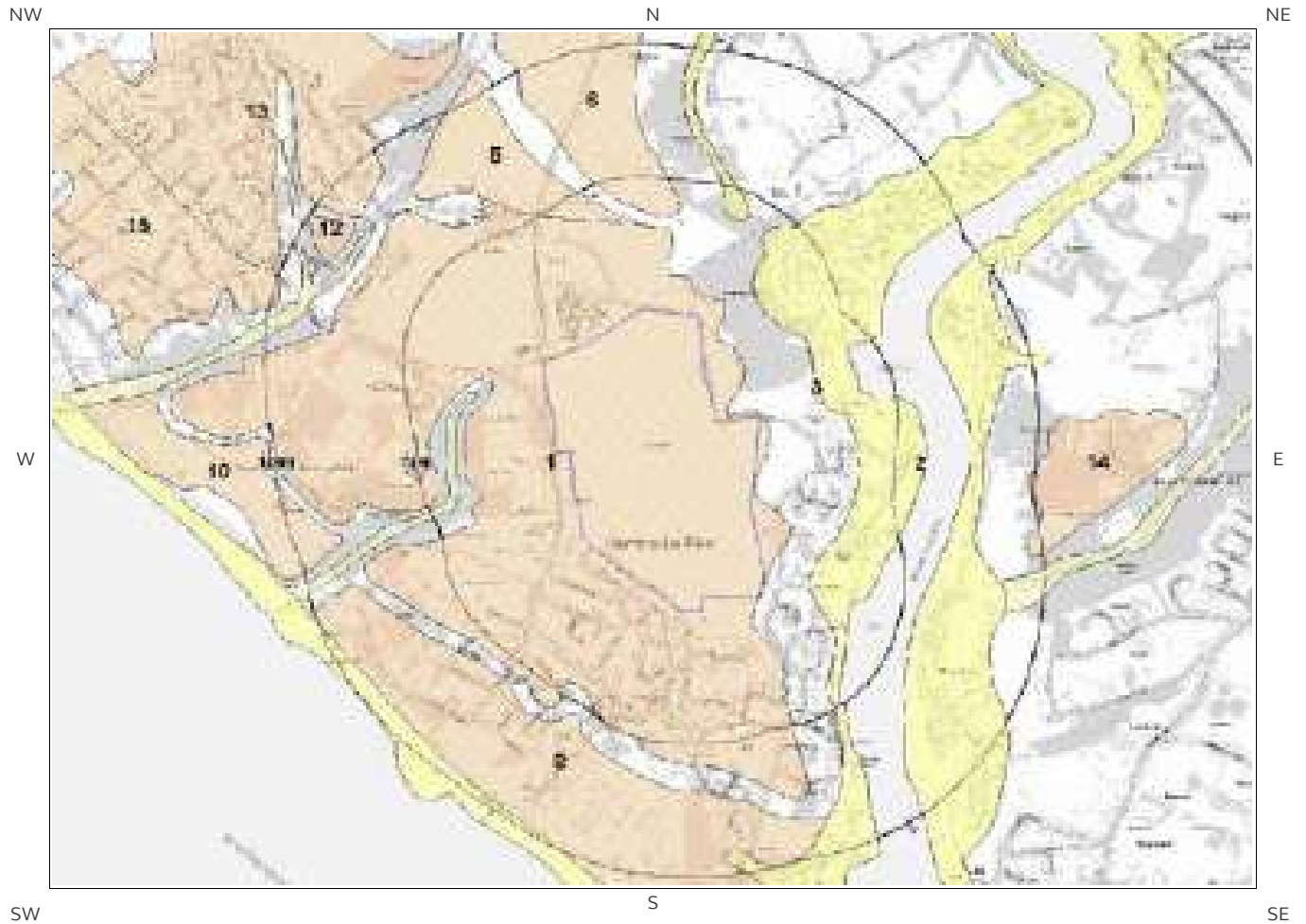
ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	235.0	NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	342.0	SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

#### 2.1.2 Permeability of Artificial Ground

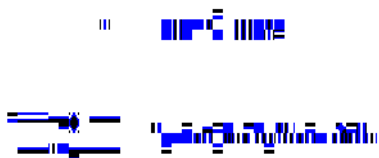
Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

## 2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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## 2.2 Superficial Deposits and Landslips

### 2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	RTD3-XSV	RIVER TERRACE DEPOSITS, 3	SAND AND GRAVEL
2	154.0	E	TFD-XCZ	TIDAL FLAT DEPOSITS	CLAY AND SILT
3	212.0	NE	TFD-XCZ	TIDAL FLAT DEPOSITS	CLAY AND SILT
4	249.0	W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
5	320.0	N	RTD4-XSV	RIVER TERRACE DEPOSITS, 4	SAND AND GRAVEL
6	351.0	N	RTD5-XSV	RIVER TERRACE DEPOSITS, 5	SAND AND GRAVEL
7	389.0	N	TFD-XCZ	TIDAL FLAT DEPOSITS	CLAY AND SILT

### 2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Intergranular	Very High	High

### 2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.



## 2.2.4 Landslip Permeability

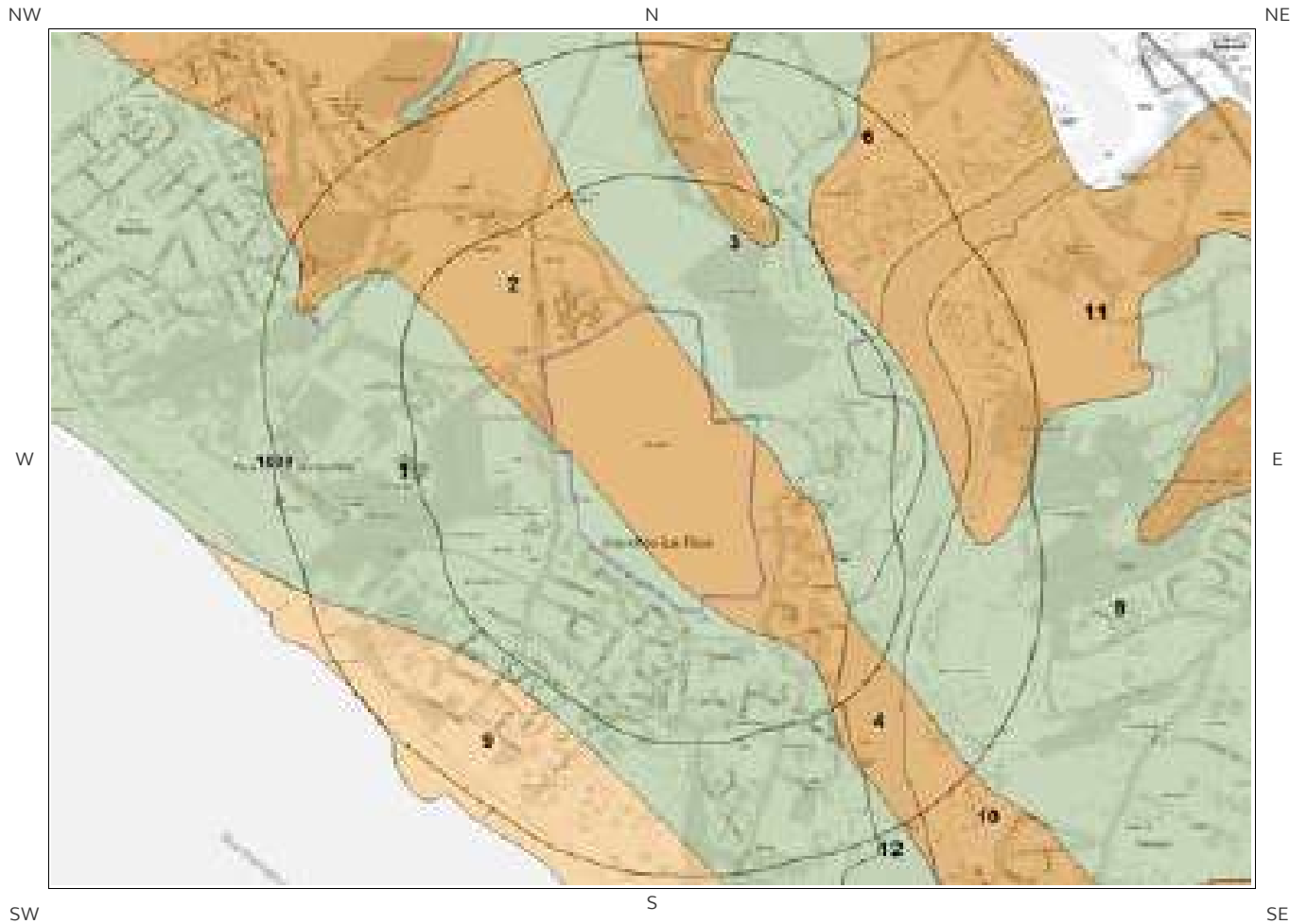
Are there any records relating to permeability of landslips within the study site boundary?

No

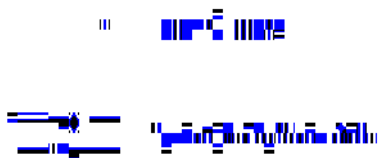
Database searched and no data found.

---

## 2.3 Bedrock and linear features map (1:50,000 scale)



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## 2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 315

### 2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	SLSY-XSZC	SELSEY SAND FORMATION - SAND, SILT AND CLAY	LUTETIAN
2	0.0	On Site	MARF-CLSISA	MARSH FARM FORMATION - CLAY, SILT AND SAND	LUTETIAN
3	0.0	On Site	EA-XSZC	EARNLEY SAND FORMATION - SAND, SILT AND CLAY	LUTETIAN
4	317.0	E	MARF-CLSISA	MARSH FARM FORMATION - CLAY, SILT AND SAND	LUTETIAN
5	317.0	E	EA-XSZC	EARNLEY SAND FORMATION - SAND, SILT AND CLAY	LUTETIAN
6	350.0	NE	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	YPRESIAN

### 2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Intergranular	High	Low
0.0	On Site	Mixed	High	Very Low
0.0	On Site	Intergranular	High	Low

### 2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

# 3 Radon Data

## 3.1 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.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

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## 3.2 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.

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# 4 Ground Workings map



**Ground Workings Legend**

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# 4 Ground Workings

## 4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary?  Yes

ID	Distance (m)	Direction	NGR	Use	Date
1A	0.0	On Site	447649 108341	Cuttings	1908
2A	0.0	On Site	447649 108341	Cuttings	1942
3	1.0	NW	447719 108395	Cuttings	1931
4A	2.0	NW	447624 108354	Cuttings	1989
5A	2.0	NW	447624 108354	Cuttings	1971
6	2.0	E	448176 107549	Gravel Pit	1931
7B	2.0	NW	447686 108381	Cuttings	1896
8B	2.0	NW	447714 108399	Cuttings	1957
9C	7.0	N	447787 108452	Cuttings	1908
10C	7.0	N	447787 108452	Cuttings	1942
11D	15.0	E	448173 107623	Unspecified Ground Workings	1931
12D	33.0	E	448180 107620	Gravel Pit	1908
13D	59.0	E	448193 107619	Gravel Pit	1896
14E	76.0	SE	448188 107222	Pond	1908
15E	76.0	SE	448188 107222	Pond	1942
16	87.0	E	448198 108186	Unspecified Ground Workings	1957
17F	94.0	E	448175 108176	Unspecified Ground Workings	1942
18F	100.0	E	448118 108183	Unspecified Ground Workings	1971
19F	100.0	E	448118 108183	Unspecified Ground Workings	1989
20	123.0	E	448079 108268	Unspecified Pit	1931
21G	135.0	N	447940 108587	Gravel Pit	1931

ID	Distance (m)	Direction	NGR	Use	Date
22G	135.0	N	447940 108587	Gravel Pit	1908
23I	139.0	N	447946 108654	Refuse Heap	1957
24G	144.0	N	447920 108589	Gravel Pit	1896
25H	154.0	NE	448277 108188	Unspecified Ground Workings	1942
26F	155.0	E	448122 108226	Unspecified Pit	1931
27H	161.0	NE	448278 108194	Unspecified Ground Workings	1989
28H	161.0	NE	448278 108194	Unspecified Ground Workings	1971
29H	162.0	NE	448274 108185	Gravel Pit	1931
30I	176.0	N	447928 108653	Unspecified Ground Workings	1971
31	181.0	N	447991 108627	Gravel Pit	1942
32J	243.0	W	447153 107952	Old Gravel Pit	1908
33J	243.0	W	447153 107952	Unspecified Pit	1931
34J	243.0	W	447153 107952	Old Gravel Pit	1896
35J	243.0	W	447153 107952	Unspecified Pit	1942
36J	247.0	W	447149 107951	Unspecified Pit	1971
37J	247.0	W	447149 107951	Unspecified Pit	1957
38J	247.0	W	447149 107951	Unspecified Pit	1989
39J	248.0	W	447149 107951	Unspecified Pit	1859

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## 4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

---

### 4.3 Current Ground Workings

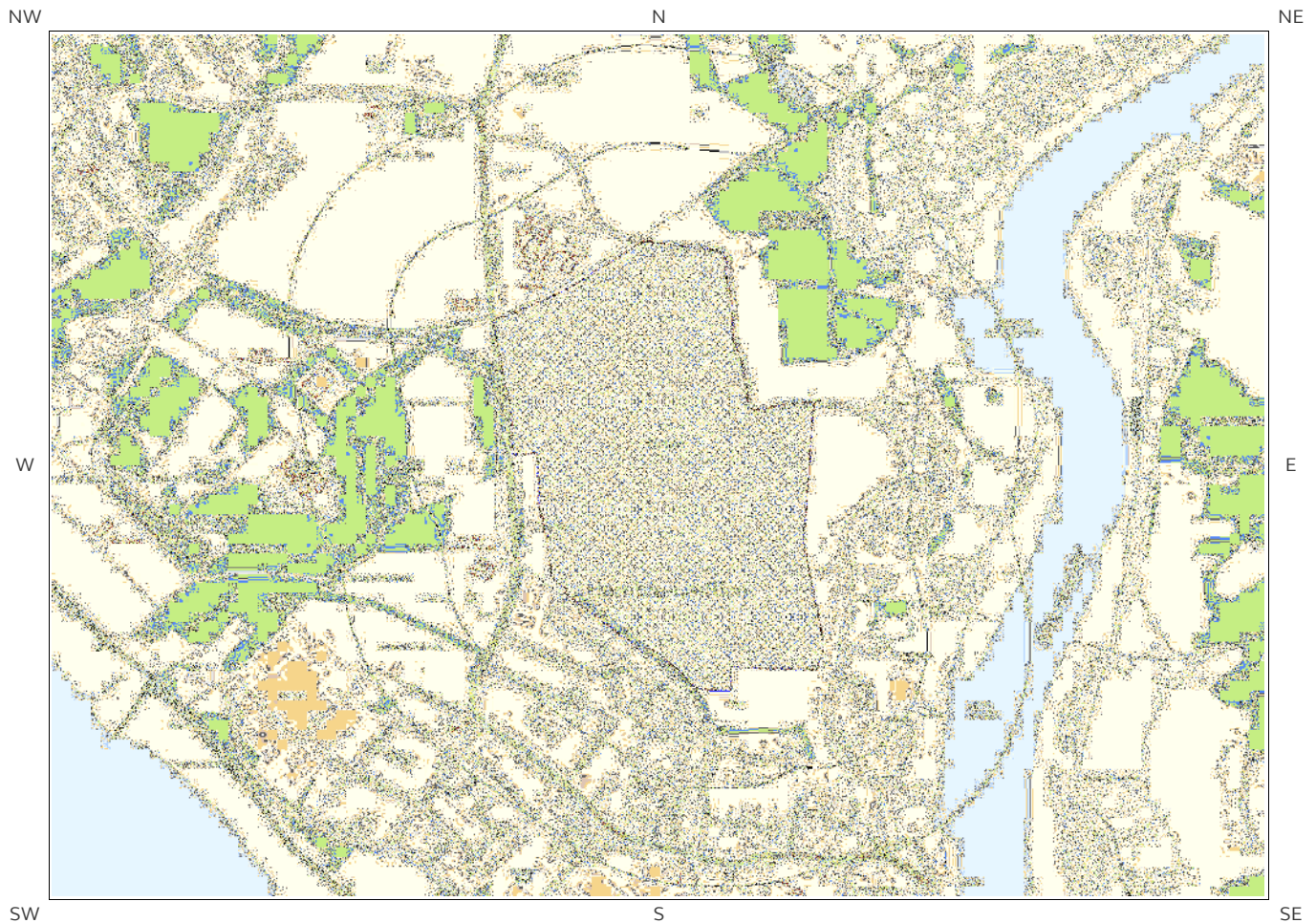
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
40D	67.0	E	448190 107619	Sand & Gravel	Satchell Farm Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
41G	228.0	N	447950 108595	Sand & Gravel	Mallards Moor Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
42J	266.0	W	447146 107947	Sand & Gravel	West Woods Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	427.0	N	447900 108800	Sand	Mallards Moor	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
44	595.0	W	446821 107892	Sand & Gravel	Netley Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	697.0	NW	446923 108726	Sand & Gravel	Hound Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
46	739.0	NW	446713 108524	Sand	Netley Sand Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	844.0	NW	446808 108821	Sand & Gravel	Butlocks Heath Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	854.0	NW	446594 108539	Clay & Shale	Netley Brick Field	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	889.0	NW	446688 108760	Sand & Gravel	Butlocks Heath Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	891.0	W	446534 107749	Sand & Gravel	Netley Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	912.0	NW	446883 108964	Clay & Shale	Hound Grove Clay Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	972.0	W	446442 108467	Sand & Gravel	Netley Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

# 5 Mining, Extraction & Natural Cavities map



**Mining, Extraction and Natural Cavities Legend**

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# 5 Mining, Extraction & Natural Cavities

## 5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

---

## 5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---



## 5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?

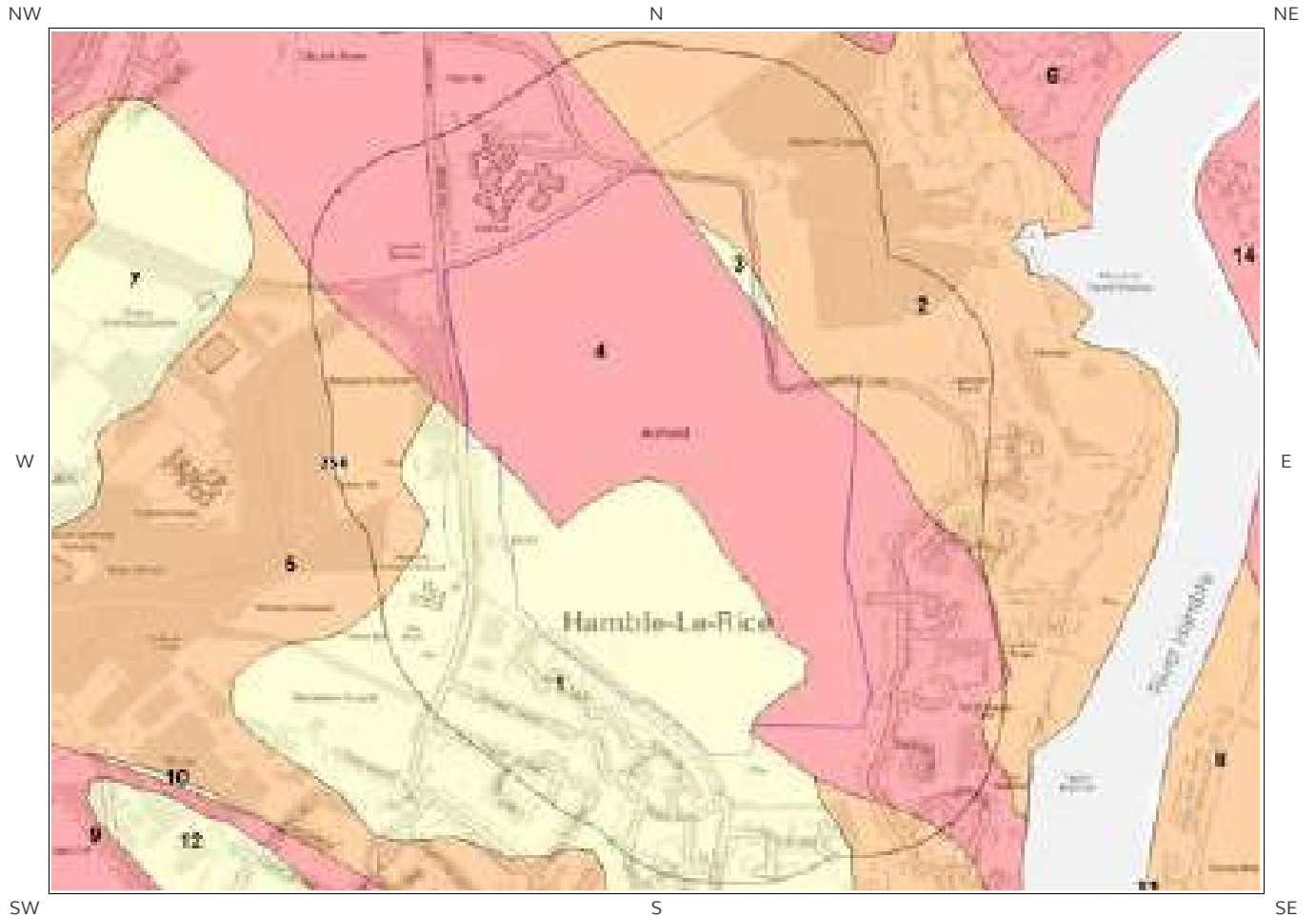
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Database searched and no data found.

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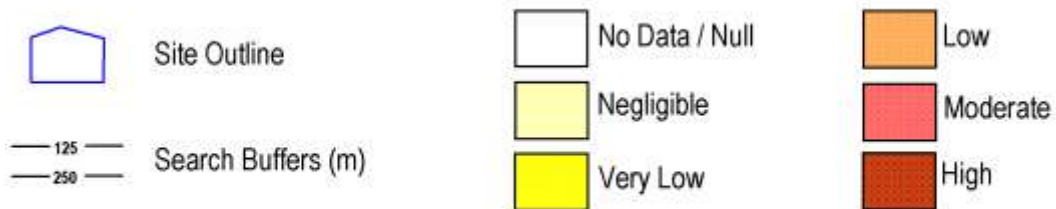
# 6 Natural Ground Subsidence

## 6.1 Shrink-Swell Clay map

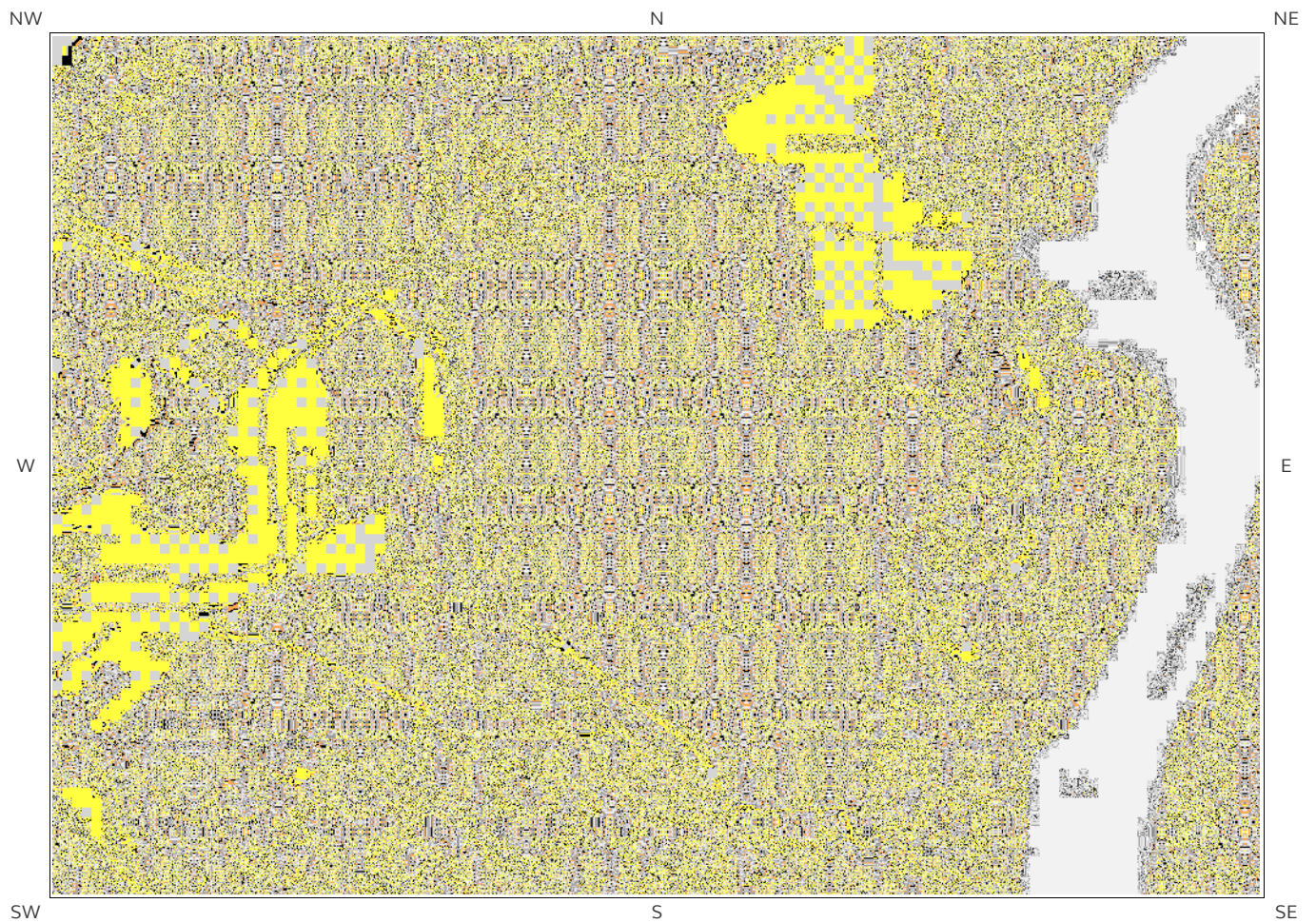


Shrink Swell Clay Legend

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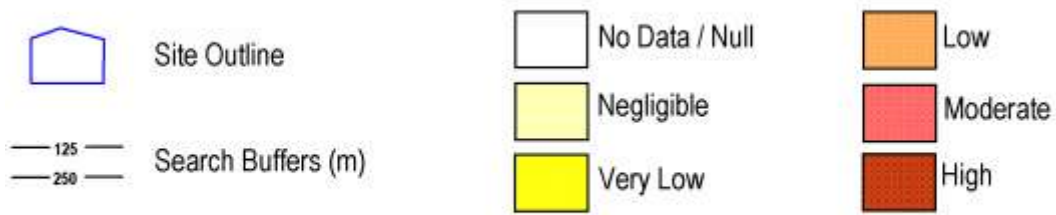


# 6.2 Landslides map



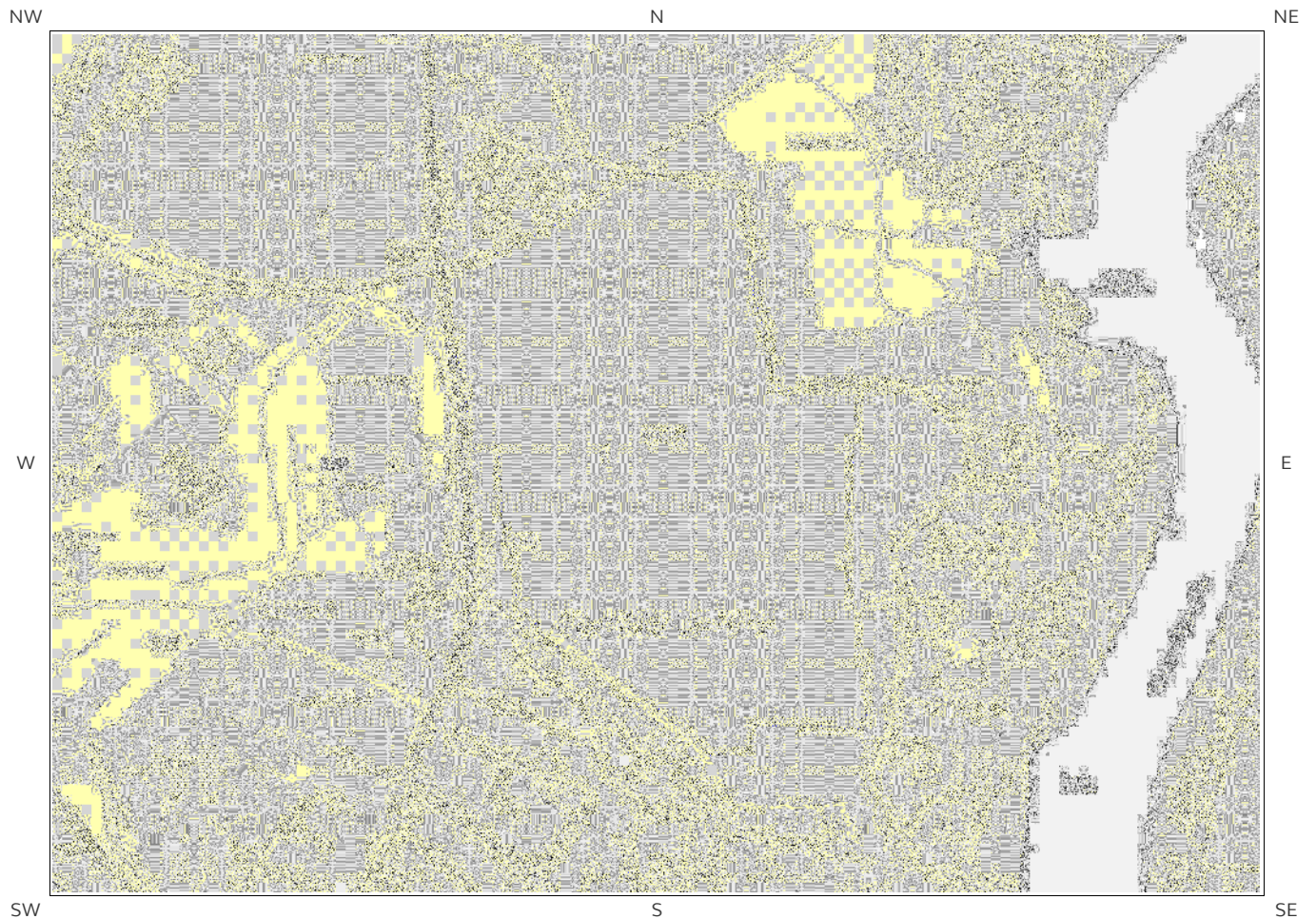
**Landslides Legend**

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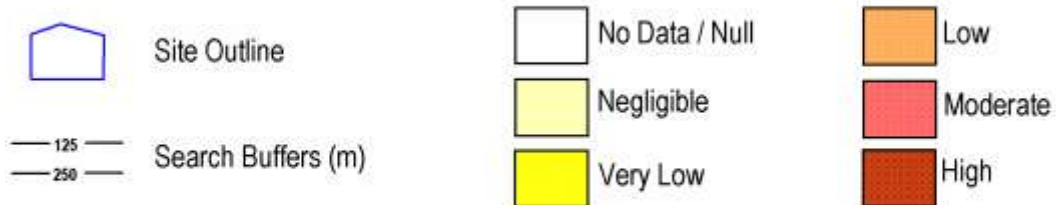


# 6.3 Ground Dissolution of Soluble Rocks map

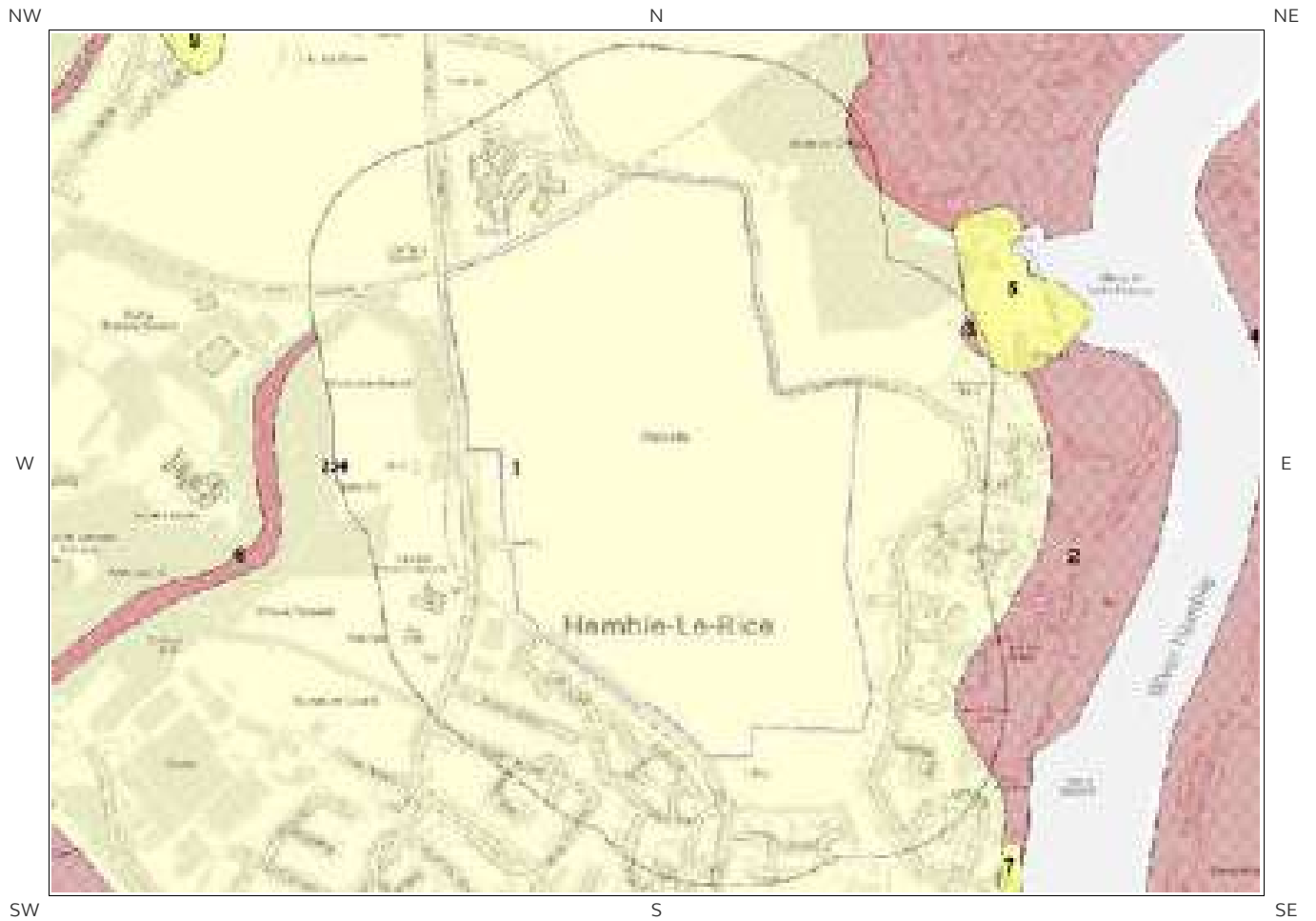


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**Ground Dissolution  
Soluble Rocks Legend**

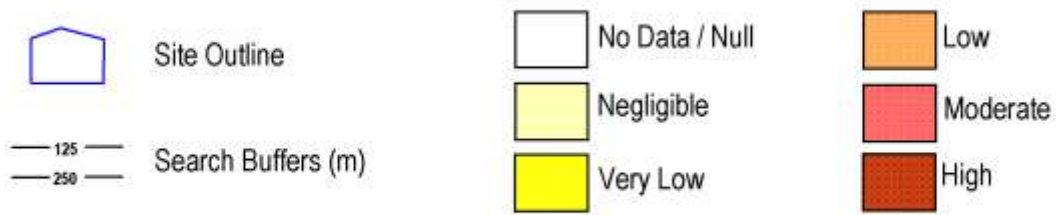


# 6.4 Compressible Deposits map



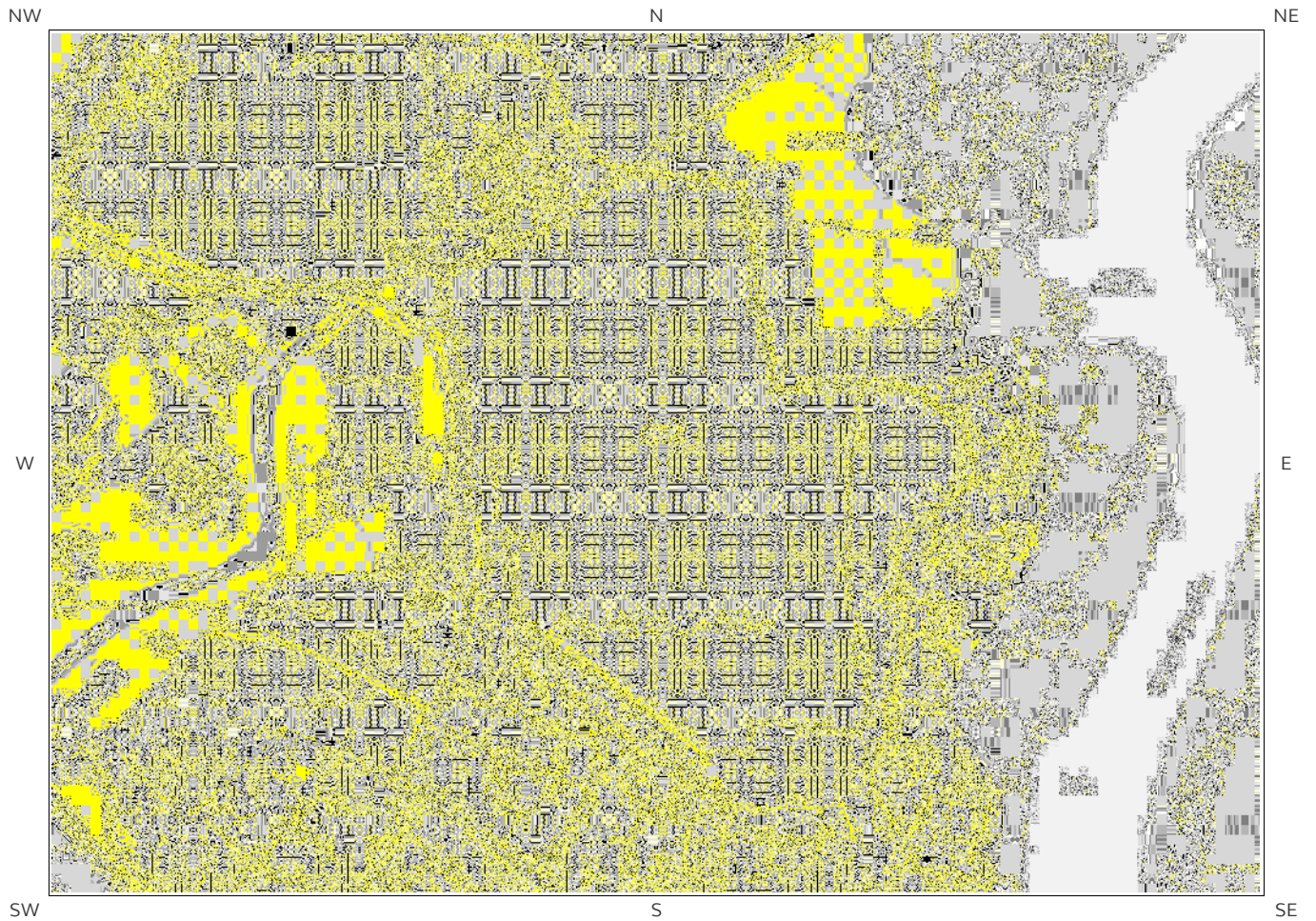
**Compressible Deposits Legend**

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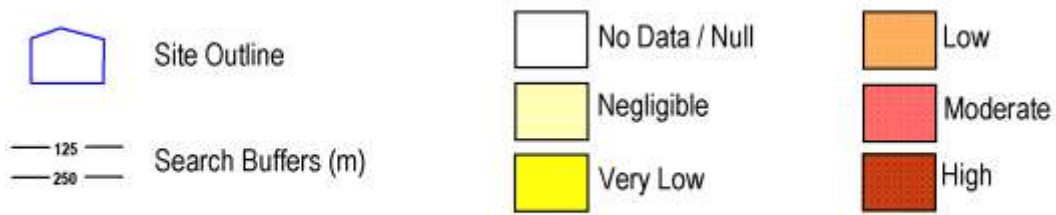


# 6.5 Collapsible Deposits map

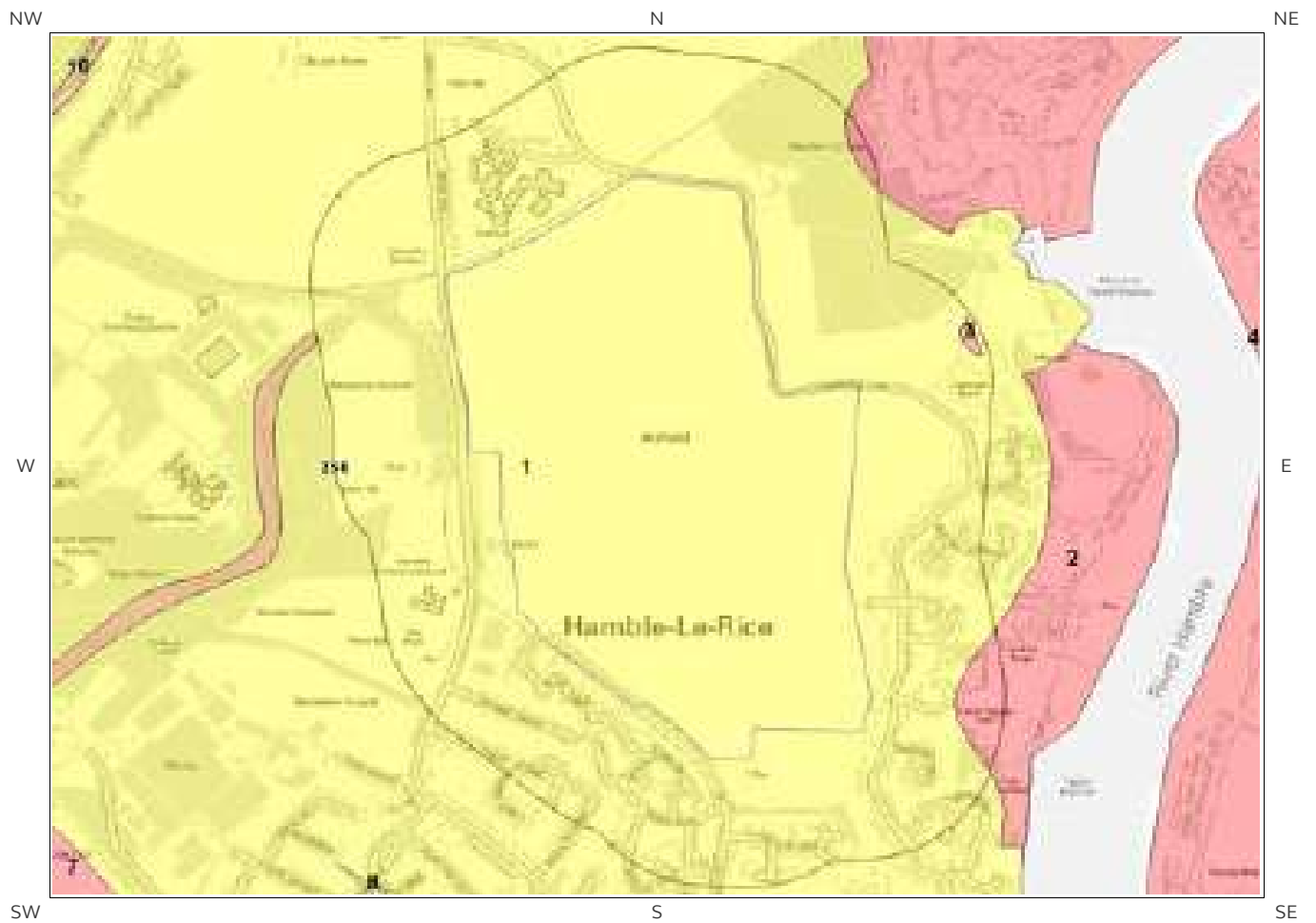


**Collapsible Deposits Legend**

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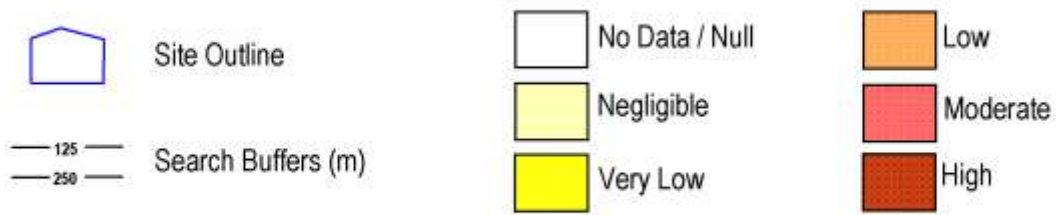


# 6.6 Running Sand map



Running Sand Legend

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# 6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site\*\* boundary?      Moderate

## 6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. 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 likely due to potential problems with shrink-swell clays.
2	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
3	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. 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 likely due to potential problems with shrink-swell clays.
4	0.0	On Site	Moderate	Ground conditions predominantly high plasticity. Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a probable increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a probable increase in insurance risk during droughts or where vegetation with high moisture demands is present.

\* This includes an automatically generated 50m buffer zone around the site

## 6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

## 6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	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.

## 6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	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.

## 6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	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.

## 6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

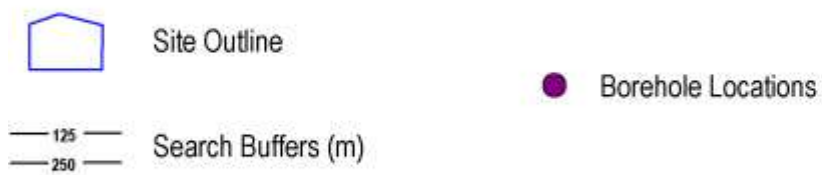
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

# 7 Borehole Records map



**Borehole Records Legend**

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# 7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

6

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	0.0	On Site	447560 107590	SU40NE168	3.1	HAMBLE PENINSULA SEWAGE DISPOSAL TP9
2	0.0	On Site	447680 107420	SU40NE161	3.0	HAMBLE PENINSULA SEWAGE DISPOSAL TP2
3	22.0	W	447460 107730	SU40NE160	3.0	HAMBLE PENINSULA SEWAGE DISPOSAL TP1
4	26.0	SW	447810 107270	SU40NE162	2.0	HAMBLE PENINSULA SEWAGE DISPOSAL TP3
5	40.0	W	447440 107800	SU40NE142	15.0	HAMBLE PENINSULA SEWAGE DISPOSAL 1
6	177.0	SE	448030 107090	SU40NE143	10.0	HAMBLE PENINSULA SEWAGE DISPOSAL 2

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

- #1: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17623024](https://scans.bgs.ac.uk/sobi_scans/boreholes/17623024)
- #2: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17623014](https://scans.bgs.ac.uk/sobi_scans/boreholes/17623014)
- #3: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17623012](https://scans.bgs.ac.uk/sobi_scans/boreholes/17623012)
- #4: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17623015](https://scans.bgs.ac.uk/sobi_scans/boreholes/17623015)
- #5: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17622288](https://scans.bgs.ac.uk/sobi_scans/boreholes/17622288)
- #6: [scans.bgs.ac.uk/sobi\\_scans/boreholes/17622289](https://scans.bgs.ac.uk/sobi_scans/boreholes/17622289)



# 9 Railways and Tunnels map



**Railways and Tunnels Legend**

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# 9 Railways and Tunnels

## 9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

---

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

---

## 9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
7	2	SW	n/a	Railways	1933
8C	3	SW	447833 107250	Railway Sidings	1985
9C	3	SW	447833 107250	Railway Sidings	1991
10	30	W	447380 107954	Railway Sidings	1964
11A	83	S	447885 107082	Railway Sidings	1964
1A	104	S	447885 107075	Railway Sidings	1931



ID	Distance (m)	Direction	NGR	Details	Date
2A	107	S	447892 107081	Railway Sidings	1942
3A	120	S	447888 107066	Railway Sidings	1957
4B	215	N	448026 108627	Railway Sidings	1971
5B	215	N	448026 108627	Railway Sidings	1957
6B	241	N	448032 108629	Railway Sidings	1942

*Any records that have been identified are represented on the Railways and Tunnels map.*

### 9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Status
4	SW	Abandoned
39	W	Disused
73	W	Disused
92	S	Abandoned

Multiple sections of the same track may be listed in the detail above  
*Any records that have been identified are represented on the Railways and Tunnels map.*

### 9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Name	Type
5	SW	Not given	Multi Track
5	SW	Not given	Multi Track
8	N	Not given	Multi Track
8	N	Not given	Multi Track
11	N	Not given	Rail
11	N	Not given	Rail
15	W	Not given	Multi Track
15	W	Not given	Multi Track
16	N	West Coastway Line	Rail
16	N	West Coastway Line	Rail

Distance (m)	Direction	Name	Type
17	NW	Not given	Multi Track
17	NW	Not given	Multi Track
129	N	Not given	Multi Track
129	N	Not given	Multi Track

Multiple sections of the same track may be listed in the detail above  
*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? No

Is the study site within 500m of the route of the Crossrail 1 rail project? No

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.*

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

# Contact Details

**Groundsure Helpline**  
Telephone: 08444 159 000  
info@groundsure.com



## British Geological Survey Enquiries

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143.  
Fax: 0115 936 3276.  
Email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)



BGS Geological Hazards Reports and general geological enquiries

## British Gypsum

British Gypsum Ltd  
East Leake  
Loughborough  
Leicestershire  
LE12 6HX



## The Coal Authority

200 Lichfield Lane  
Mansfield  
Notts NG18 4RG  
Tel: 0345 7626 848  
DX 716176 Mansfield 5  
[www.coal.gov.uk](http://www.coal.gov.uk)



## Public Health England

Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
<https://www.gov.uk/government/organisations/public-health-england>  
Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000



## Johnson Poole & Bloomer Limited

Harris and Pearson Building, Brettel Lane  
Brierley Hill, West Midlands  
DY5 3LH  
Tel: +44 (0) 1384 262 000  
Email: [enquiries.gs@jpb.co.uk](mailto:enquiries.gs@jpb.co.uk)  
Website: [www.jpb.co.uk](http://www.jpb.co.uk)



## Ordnance Survey

Adanac Drive, Southampton  
SO16 0AS  
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Website: <http://www.ordnancesurvey.co.uk/>



## Getmapping PLC

Virginia Villas, High Street, Hartley Witney,  
Hampshire RG27 8NW  
Tel: 01252 845444  
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Website: <http://www.peterbrett.com/home>



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<https://www.groundsure.com/terms-and-conditions-march-2018/>



**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

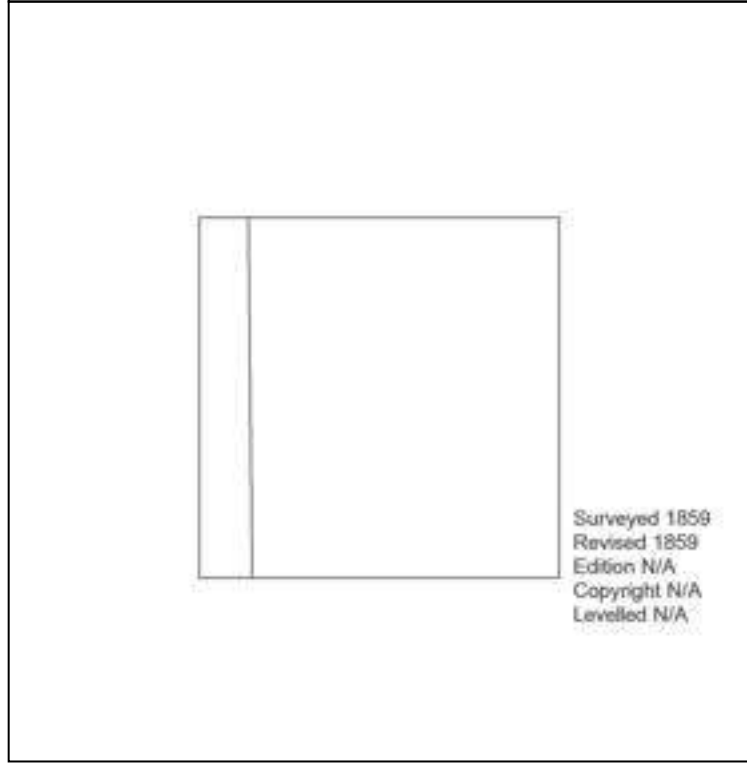
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**Map Name:** County Series

**Map date:** 1859

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**Printed at:** 1:10,560



Surveyed 1859  
Revised 1859  
Edition N/A  
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Levelled N/A

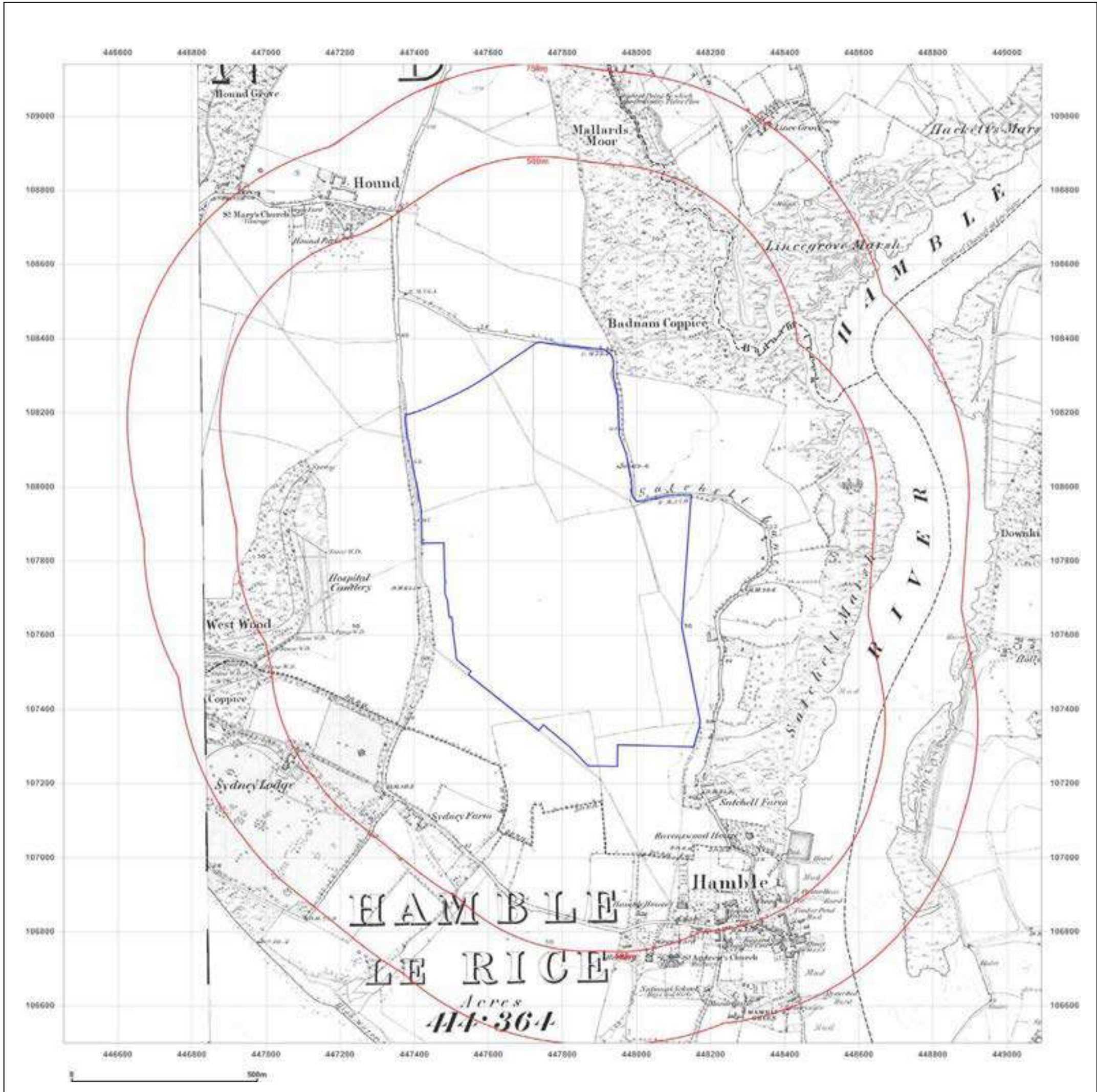


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Groundsure Insights  
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E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

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Production date: 08 March 2018

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

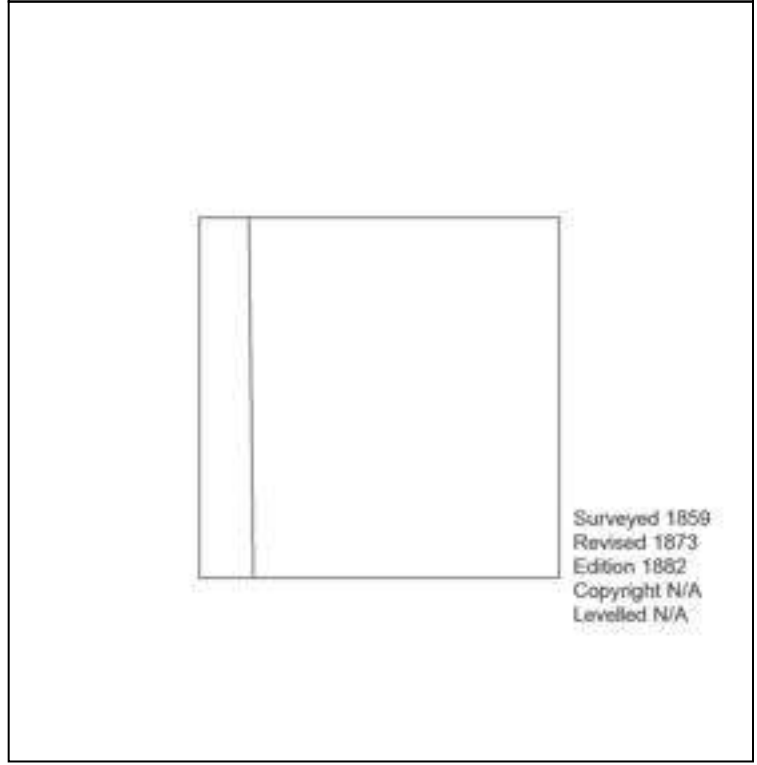
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**Map Name:** County Series

**Map date:** 1882

**Scale:** 1:10,560

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Surveyed 1859  
Revised 1873  
Edition 1882  
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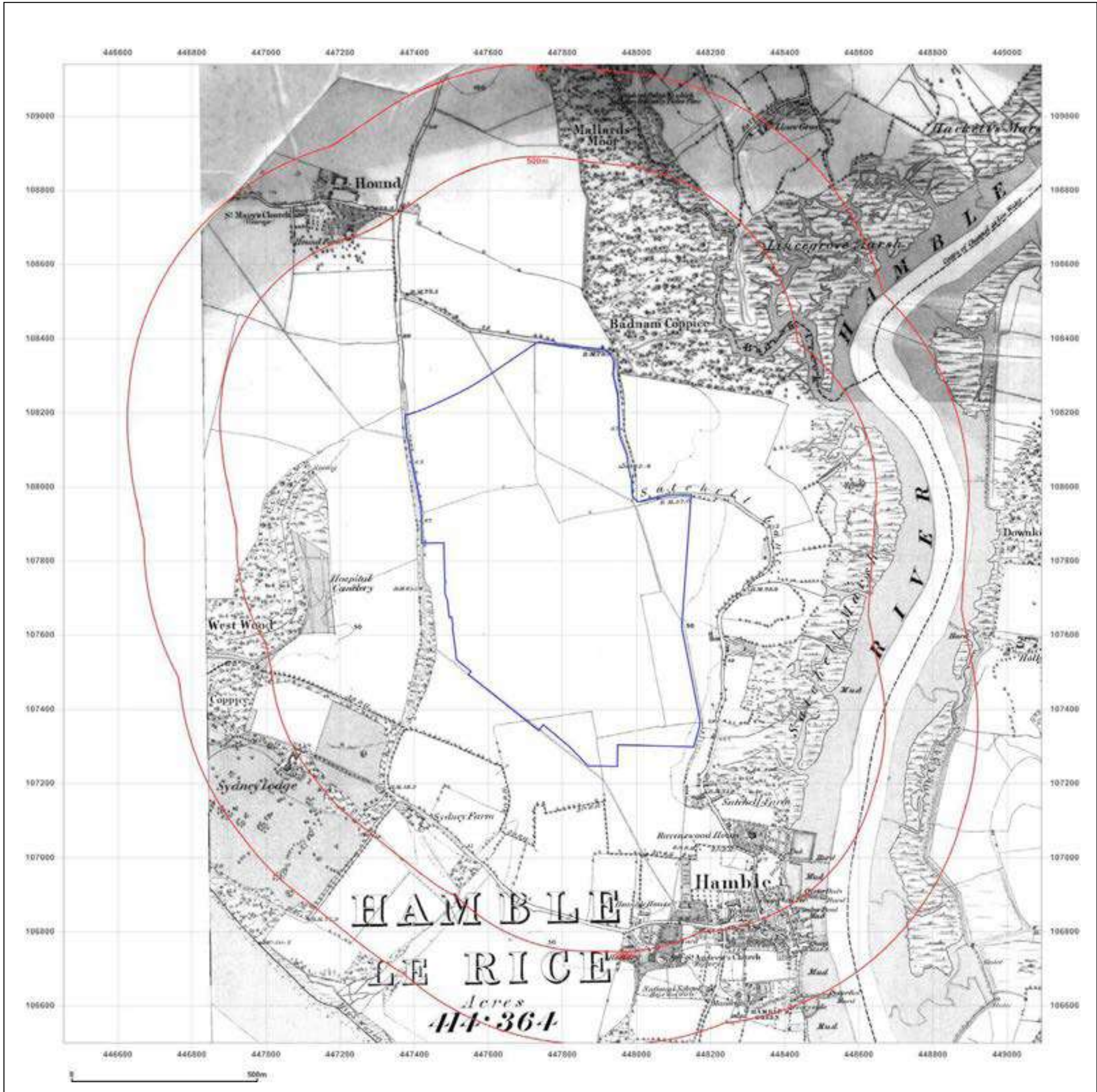


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W: [www.groundsure.com](http://www.groundsure.com)

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Production date: 08 March 2018

Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)

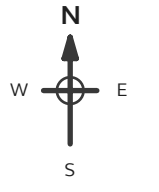




**Site Details:**  
 HAMBLE AIRFIELD,  
 HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** County Series  
**Map date:** 1896-1898  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



Surveyed 1868 Revised 1896 Edition N/A Copyright N/A Levelled N/A	Surveyed 1867 Revised N/A Edition N/A Copyright N/A Levelled N/A
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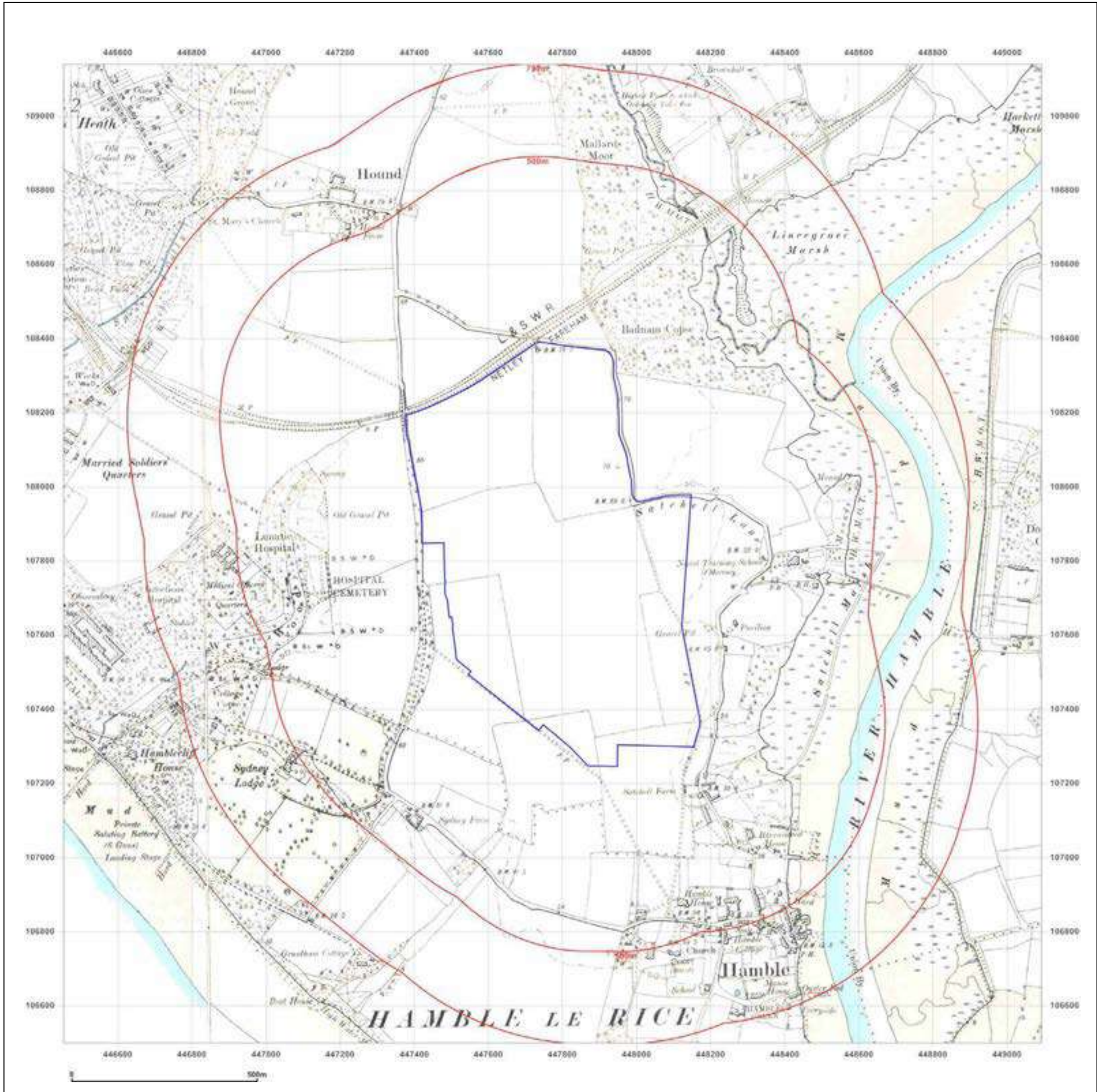
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**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** County Series

**Map date:** 1907-1908

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1867  
Revised 1907  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1865  
Revised 1908  
Edition N/A  
Copyright N/A  
Levelled N/A

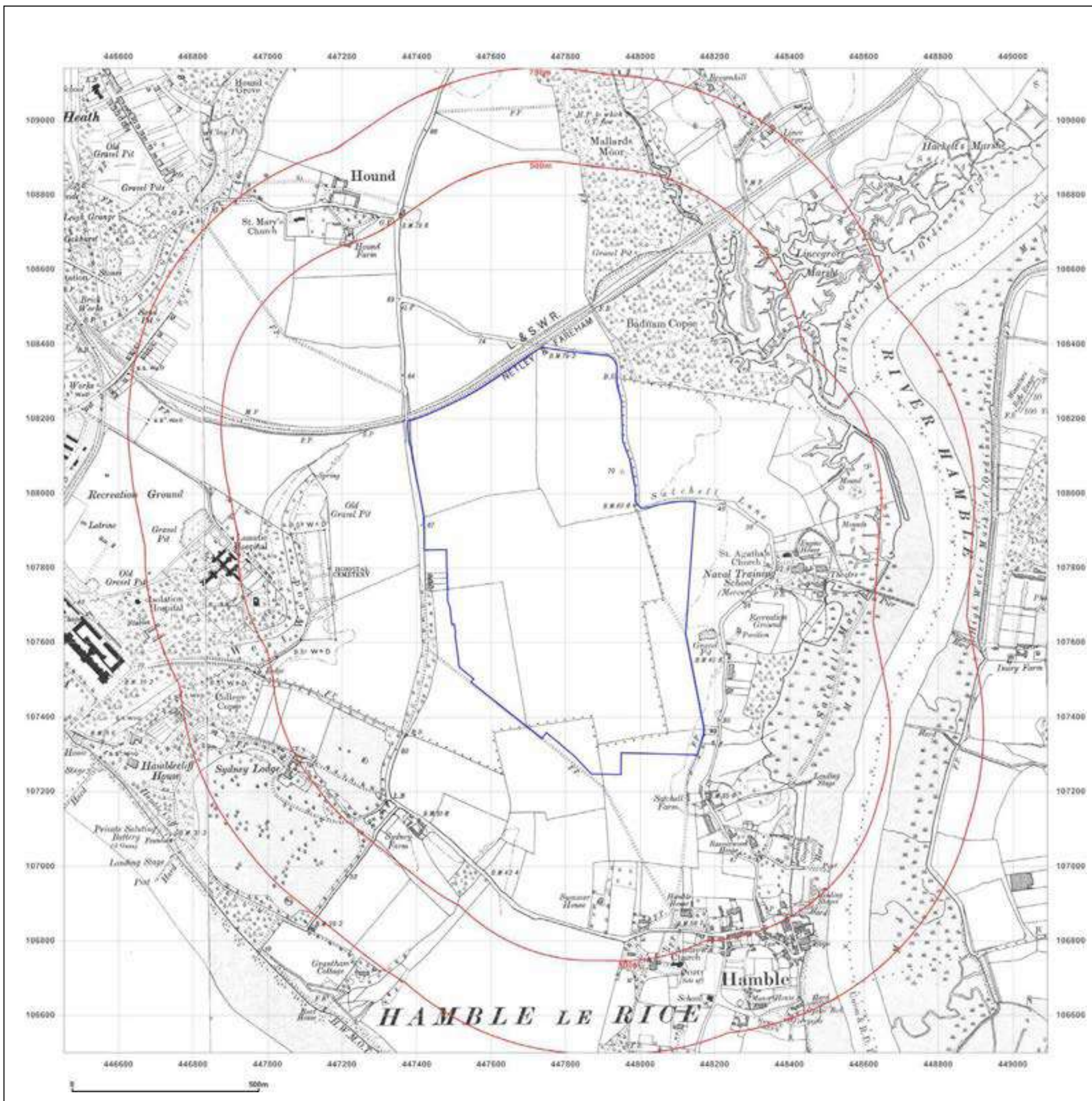


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**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** County Series

**Map date:** 1931-1932

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1867  
Revised 1932  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1865  
Revised 1931  
Edition N/A  
Copyright N/A  
Levelled N/A

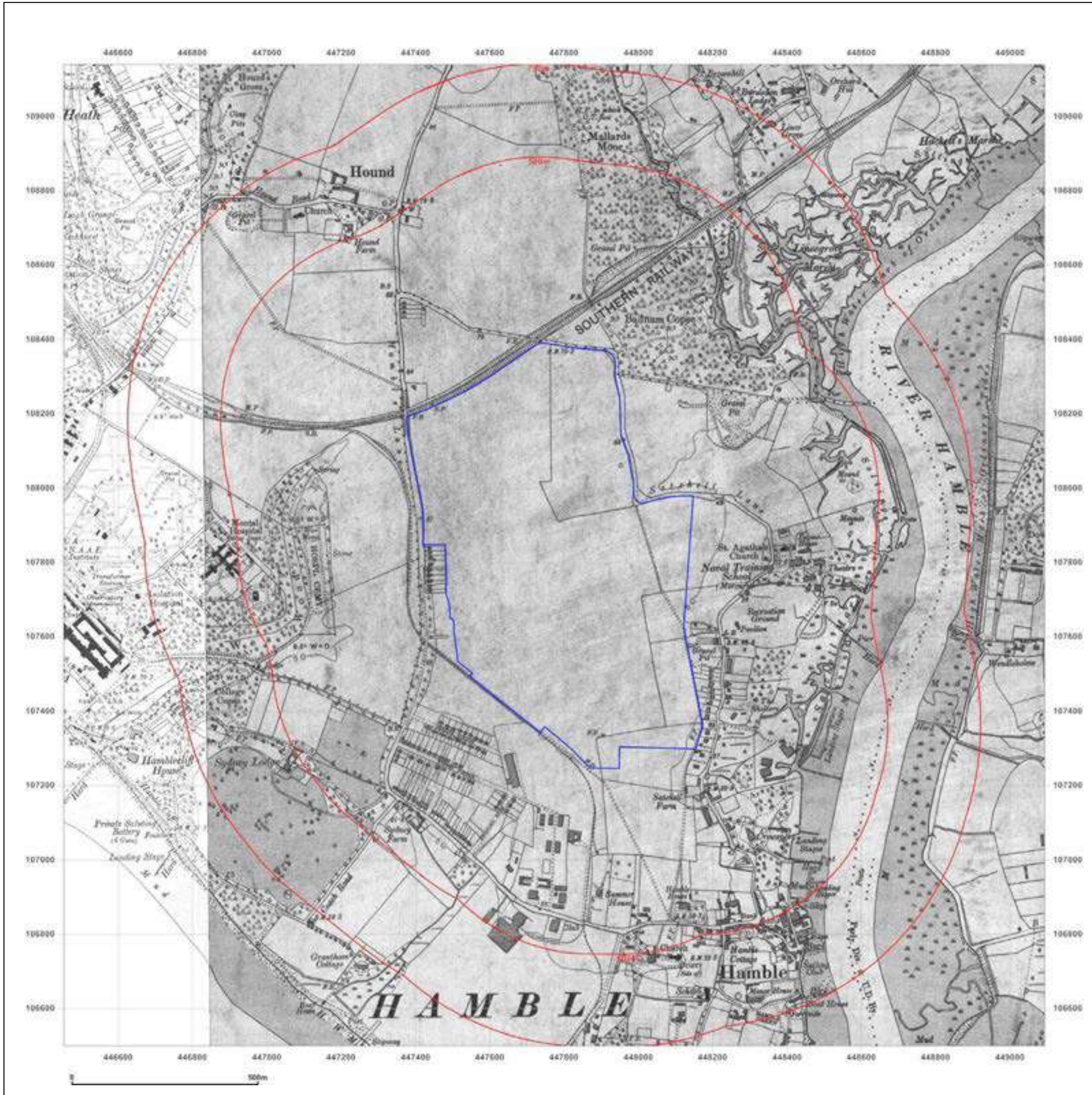


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**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

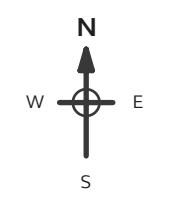
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**Grid Ref:** 447772, 107819

**Map Name:** County Series

**Map date:** 1942

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1867  
Revised 1942  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1865  
Revised 1942  
Edition N/A  
Copyright N/A  
Levelled N/A

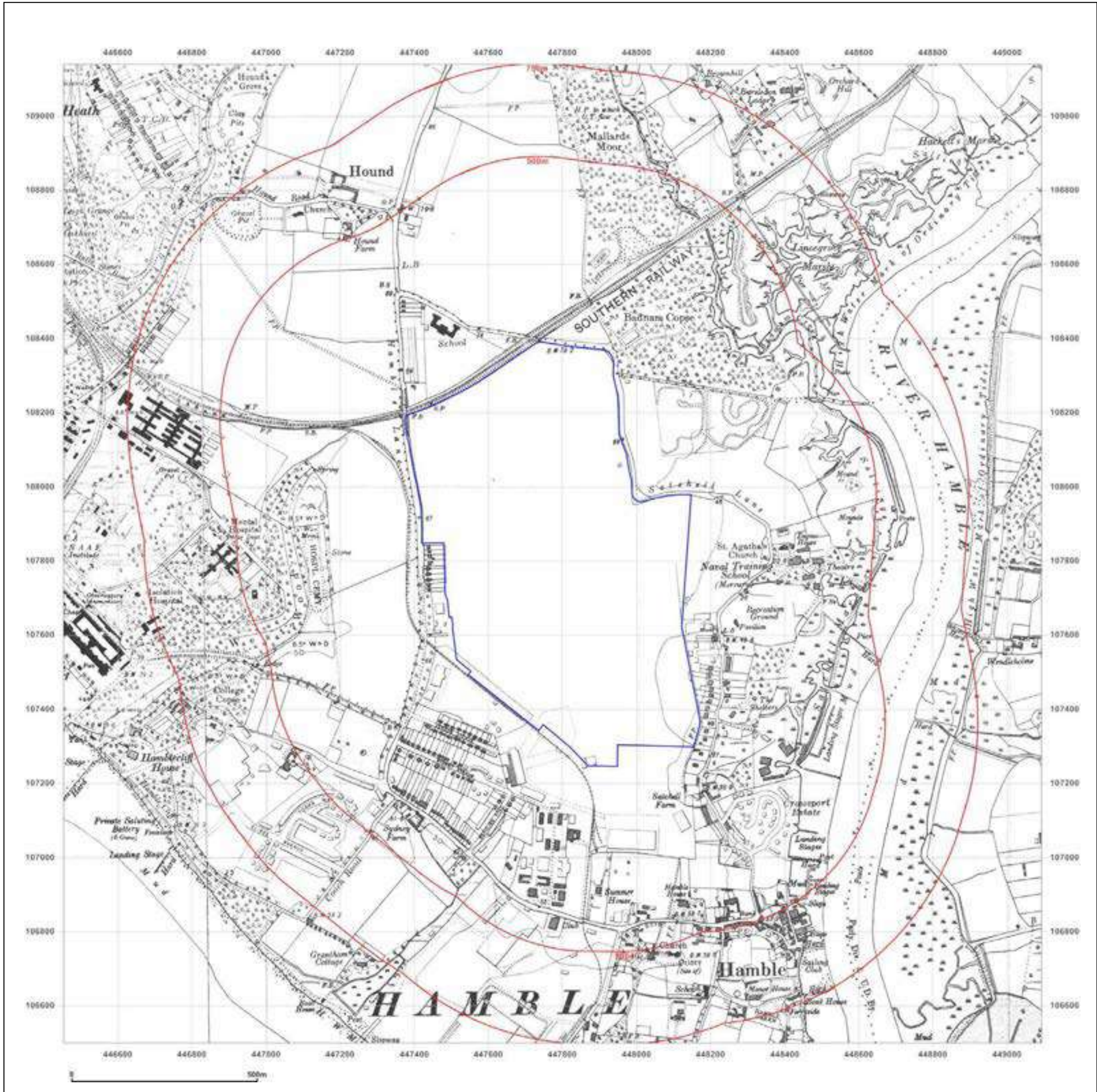


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**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** Provisional

**Map date:** 1957

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1957  
Revised 1957  
Edition N/A  
Copyright N/A  
Levelled N/A

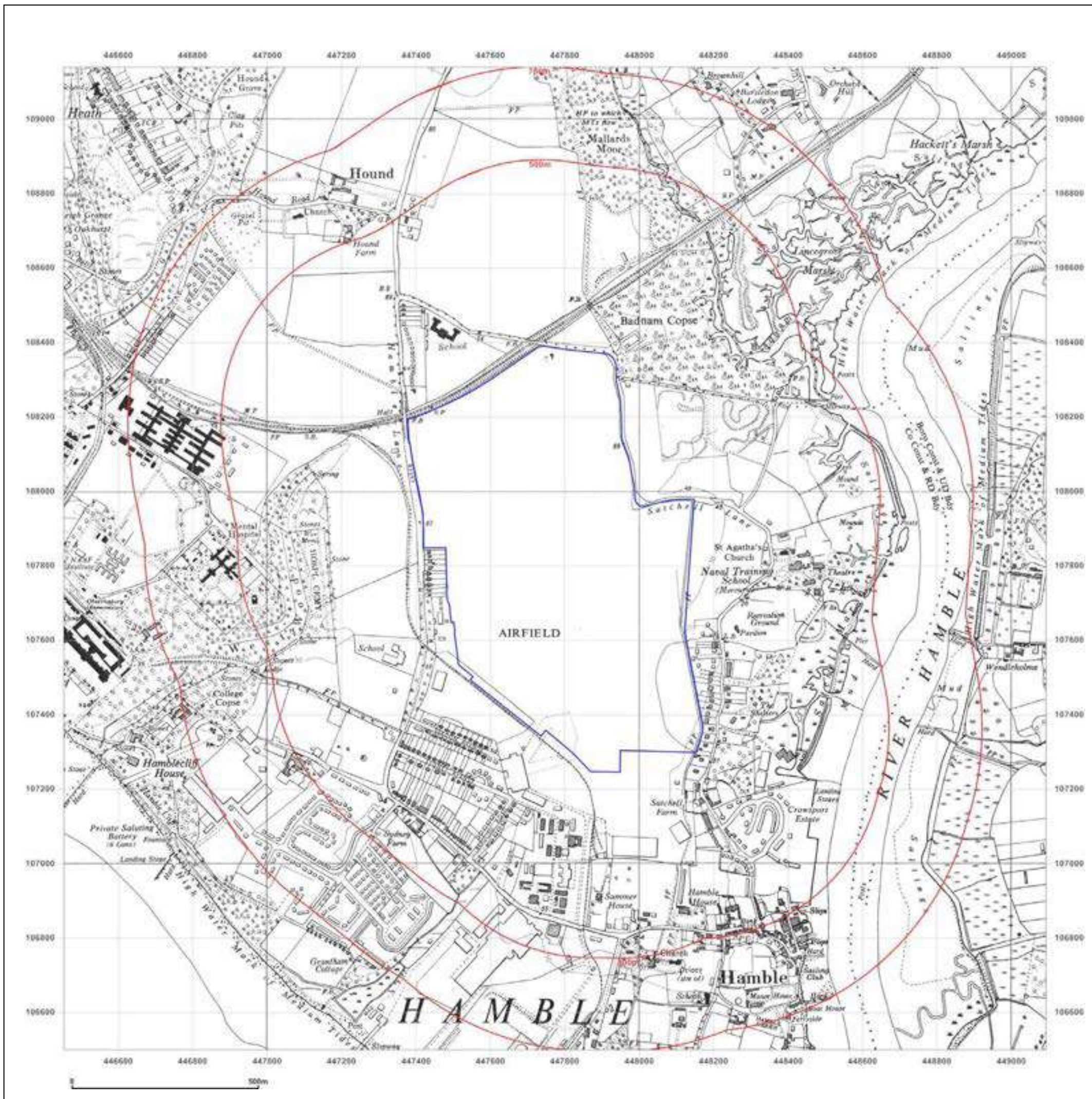


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**Site Details:**

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HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** National Grid

**Map date:** 1972

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1970  
Revised 1972  
Edition N/A  
Copyright 1972  
Levelled 1968

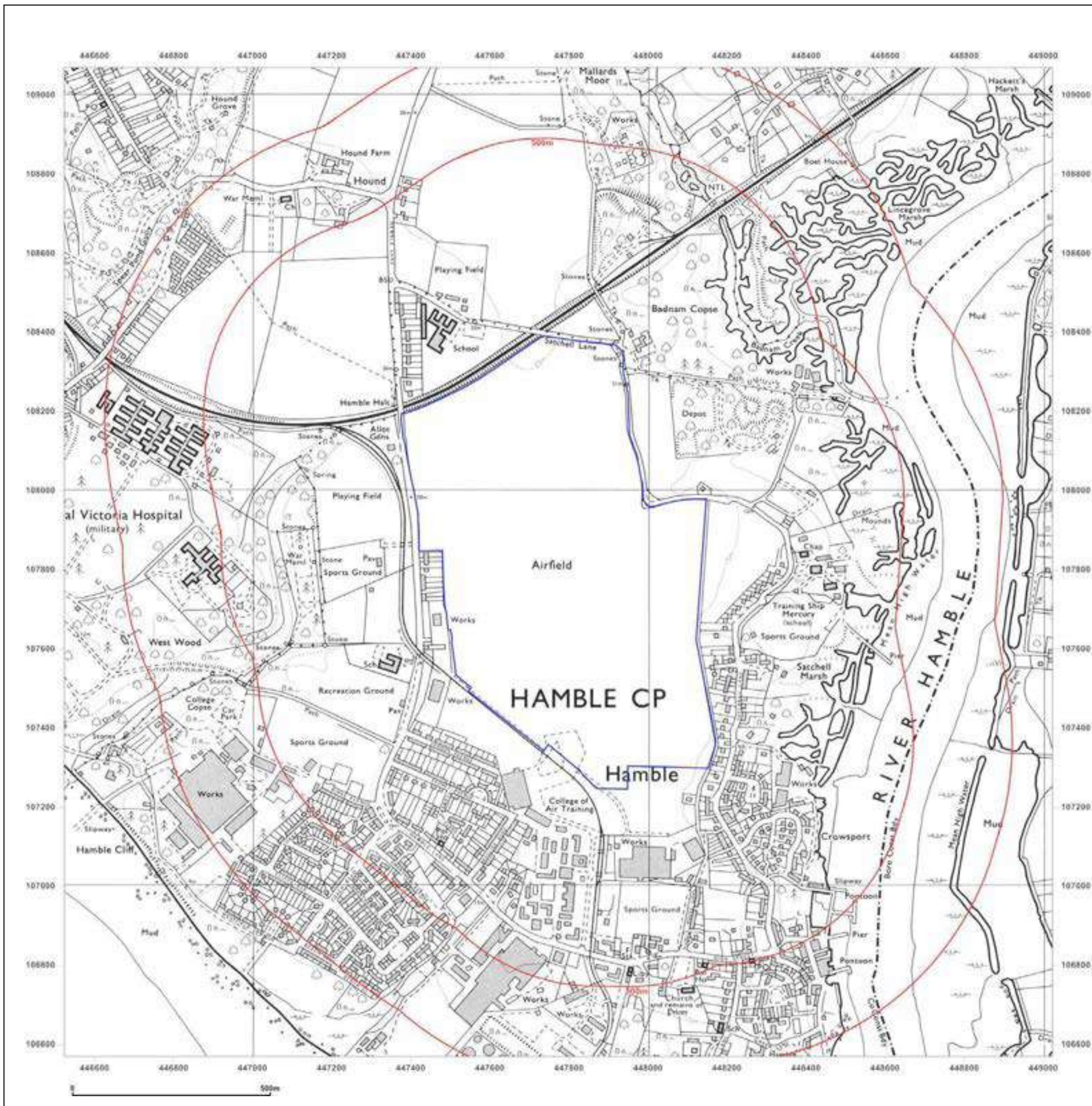


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**Site Details:**

HAMBLE AIRFIELD,  
HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** National Grid

**Map date:** 1989

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1985  
Revised 1989  
Edition N/A  
Copyright N/A  
Levelled N/A

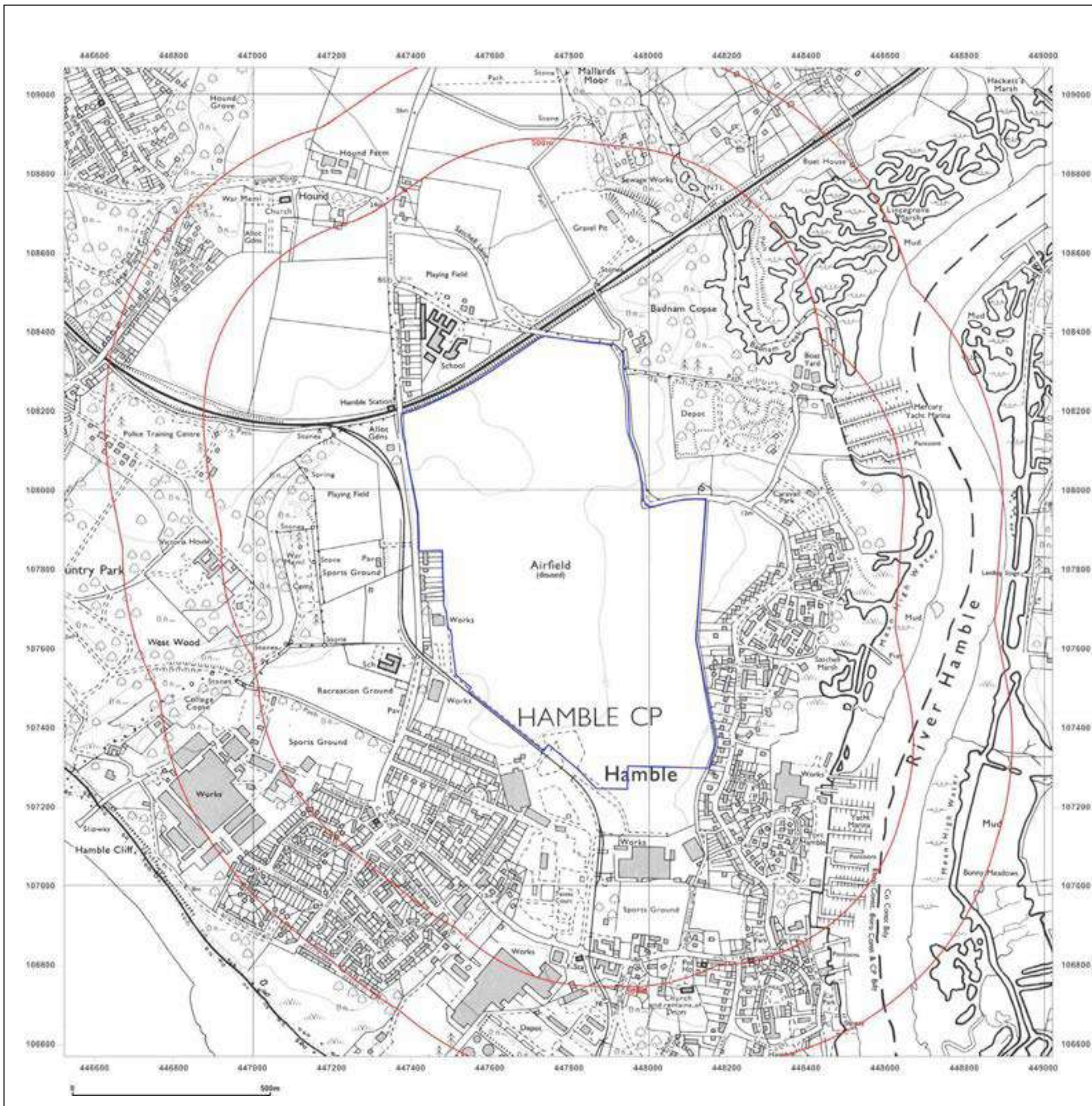


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**Site Details:**

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**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

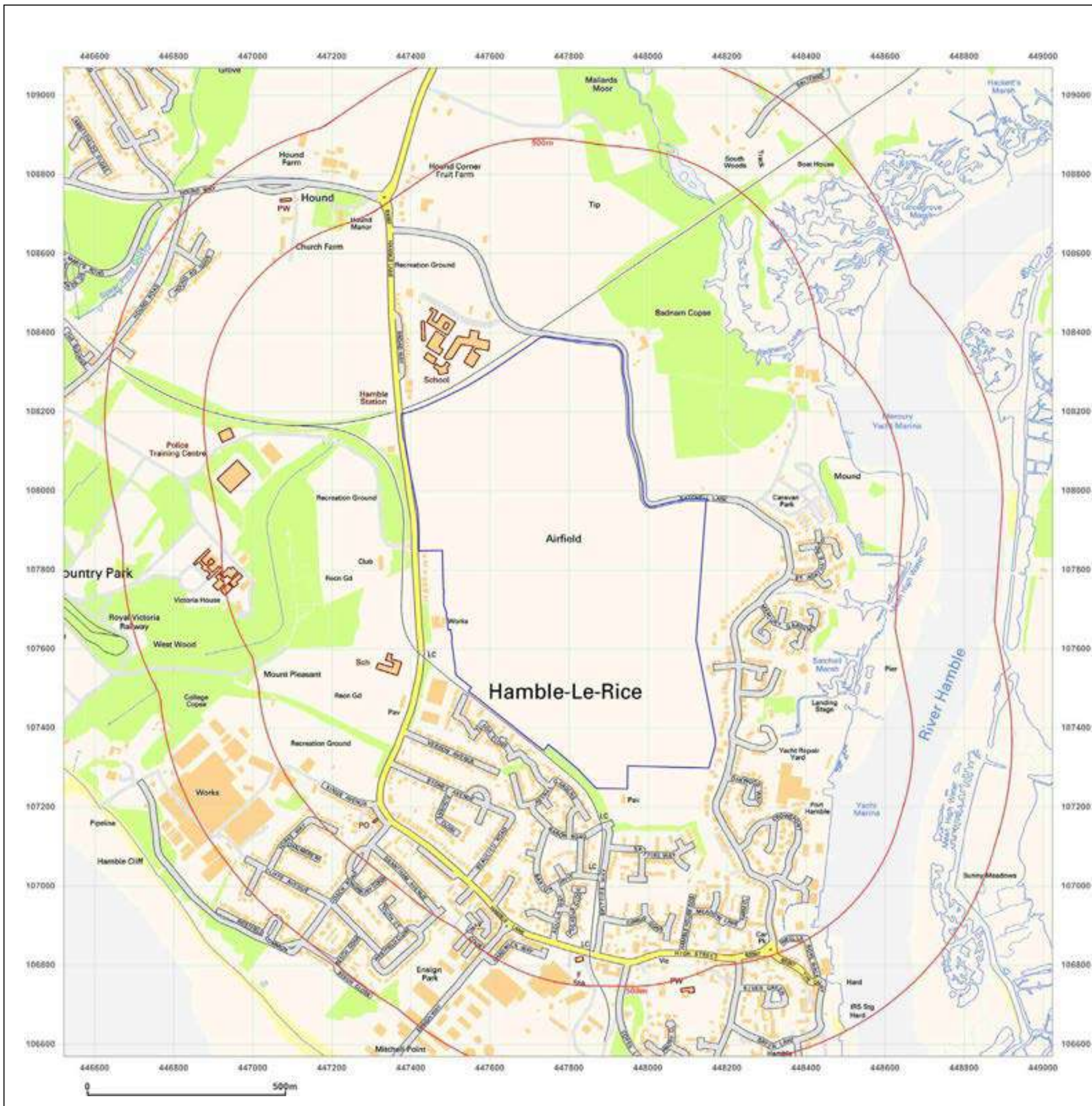


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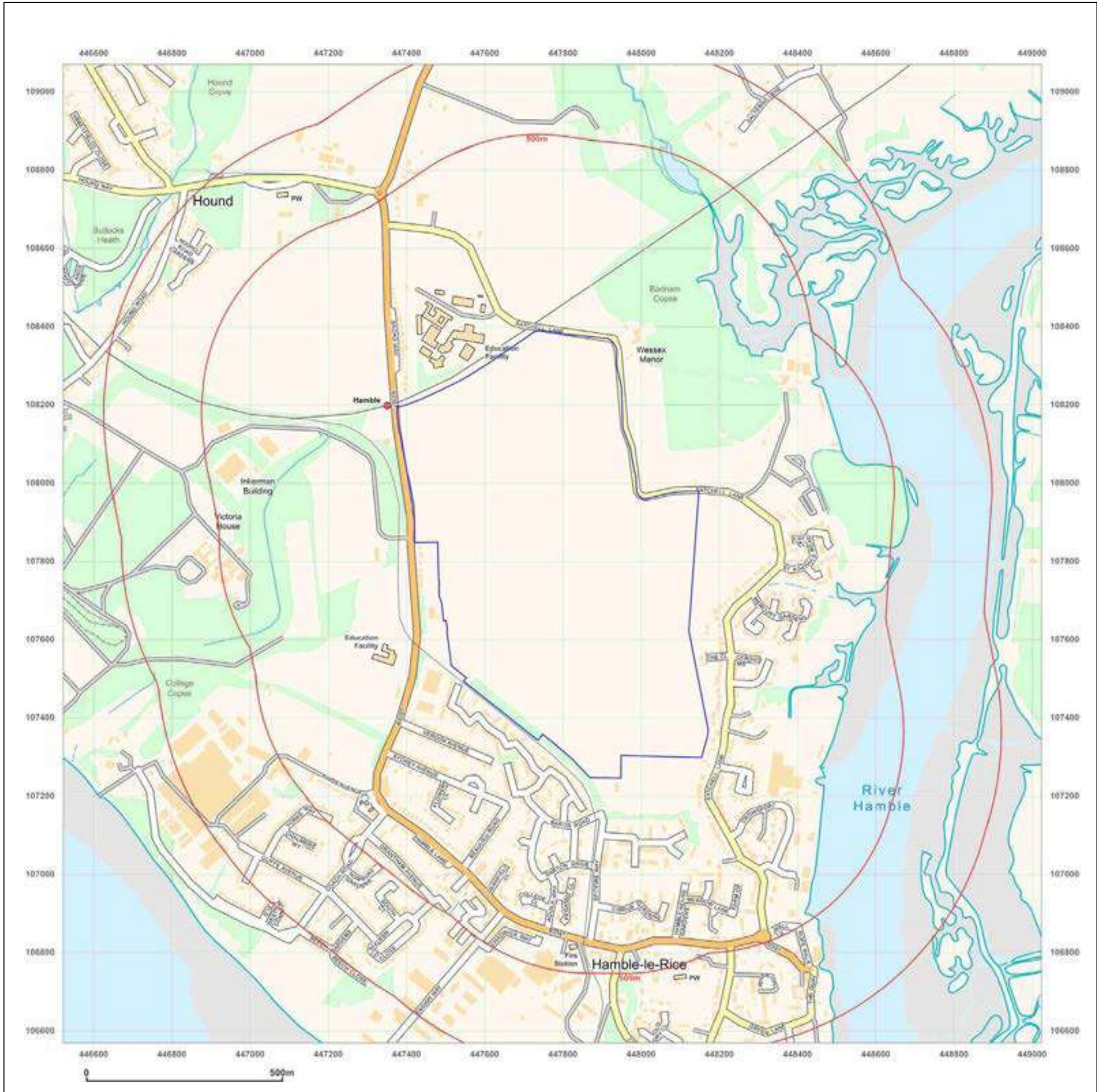
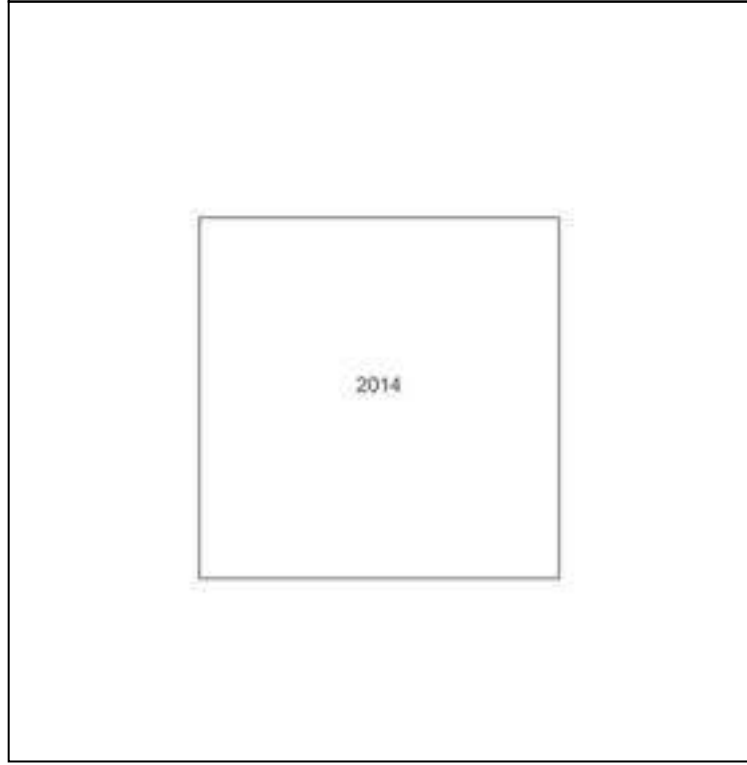




**Site Details:**  
 HAMBLE AIRFIELD,  
 HAMBLE-LE-RICE, SO31 4HU

**Client Ref:** Hamble  
**Report Ref:** GS-4789428  
**Grid Ref:** 447772, 107819

**Map Name:** National Grid  
**Map date:** 2014  
**Scale:** 1:10,000  
**Printed at:** 1:10,000



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