



Site Condition Report

Halewood Manufacturing Plant – Environmental Permit Variation

Jaguar Land Rover Limited

Prepared by:

SLR Consulting Limited

3rd Floor, Brew House, Jacob Street, Tower Hill,
Bristol, BS2 0EQ

SLR Project No.: 416.064966.00001

29 January 2024

Revision: 1

Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
1	22 November 2023	Sean O'Brien	Greg Altria	Greg Altria
	Click to enter a date.			
	Click to enter a date.			
	Click to enter a date.			
	Click to enter a date.			

Basis of Report

This document has been prepared by SLR Consulting Limited (SLR) with reasonable skill, care and diligence, and taking account of the timescales and resources devoted to it by agreement with Jaguar Land Rover Limited (the Client) as part or all of the services it has been appointed by the Client to carry out. It is subject to the terms and conditions of that appointment.

SLR shall not be liable for the use of or reliance on any information, advice, recommendations and opinions in this document for any purpose by any person other than the Client. Reliance may be granted to a third party only in the event that SLR and the third party have executed a reliance agreement or collateral warranty.

Information reported herein may be based on the interpretation of public domain data collected by SLR, and/or information supplied by the Client and/or its other advisors and associates. These data have been accepted in good faith as being accurate and valid.

The copyright and intellectual property in all drawings, reports, specifications, bills of quantities, calculations and other information set out in this report remain vested in SLR unless the terms of appointment state otherwise.

This document may contain information of a specialised and/or highly technical nature and the Client is advised to seek clarification on any elements which may be unclear to it.

Information, advice, recommendations and opinions in this document should only be relied upon in the context of the whole document and any documents referenced explicitly herein and should then only be used within the context of the appointment.



Table of Contents

Basis of Report	i
1.0 Introduction	1
1.1 Permit Variation.....	1
2.0 Site Condition Report H5 Template	1
2.1 Site Details	1
2.2 Condition of the Land at Permit Issue.....	1
2.3 Permitted Activities.....	6
2.4 Changes to the Activity.....	7
2.5 Measures Taken to Protect the Land.....	7
2.6 Pollution Incidents and Remediation.....	7
2.7 Soil, Gas and Water Quality Monitoring.....	8

Tables in Text

Table A: Site Details	1
Table B: Site Condition at Permit Issue.....	1
Table C: Permitted Activities	6
Table D: Changes to the Activity	7
Table E: Measures Taken to Protect the Land	7
Table F: Pollution Incidents and Remediation.....	7
Table G: Soil, Gas and Water Quality Monitoring	8

Appendices

Appendix A	Groundsure Report
Appendix B	Groundsure Historic Maps (large scale)
Appendix C	Groundsure Historic Maps (small scale)



1.0 Introduction

SLR Consulting Ltd (SLR) has been instructed by Jaguar Land Rover Limited (JLR) to prepare an environmental permit (EP) variation application for the proposed operation of three natural gas boilers at their Halewood Manufacturing Plant, Speke Boulevard, Speke, Liverpool, L24 9BJ.

There are 4 existing La Mont boilers located on the Site and JLR proposes to install an additional 3 no. natural gas fired Hoval UltraGas boilers to offset the need to use the La Mont boilers. In discussions with the Site's Environment Agency (EA) officer, JLR has been advised that the Site's environmental permit should be varied to incorporate the Hoval boilers on the basis of aggregating with the existing boilers to be part of the Section 1.1 Part A(1) activity.

The existing Environmental Permit (BS5673IQ) incorporates the area in which the La Mont boilers are located, rather than the entirety of the Manufacturing Plant. A second area to incorporate the proposed location of the Hoval boiler house is being added as part of this variation. This Permit area will hereafter be referred to as 'the Site'.

This Site Condition Report (SCR) has been prepared for the proposed permit boundary for the 3 new Hoval UltraGas boilers only. The revised Environmental Permit boundary is shown on Drawing 002 Site Layout and Environmental Permit Boundary Plan, dated November 2023.

The SCR has been prepared in accordance with the Environment Agency's (EA) H5 Guidance Note on SCR¹. The objective of the SCR is to record and describe the condition of the land at the Site prior to operation. The SCR provides a point of reference and baseline environmental data so that when the EP is surrendered it can be demonstrated that there has been no deterioration in the condition of the land as a result of the operations, and ensure that the condition of the land is in a 'satisfactory state' on surrender of the EP.

Sections 1 to 3 of the EA's SCR template comprise the following:

- Site details;
- Condition of the land at permit issue:
 - Geology;
 - Hydrogeology;
 - Hydrology;
- Pollution History;
- Evidence of historic contamination; and
- Permitted activities.

1.1 Permit Variation

Sections 1 to 3 of the SCR template have been completed as part of this EP application in relation to the proposed permit boundary for the three new boilers only.

Should the application be approved, Sections 4 to 7 of the SCR template will be maintained during the life of the permit.

Sections 8 to 10 will be completed and submitted in support of the application to surrender the EP.

¹ Environment Agency – H5 Site Condition Report – guidance and templates, Version 3.0, April 2013



2.0 Site Condition Report H5 Template

2.1 Site Details

Table A: Site Details

Name of Applicant	Jaguar Land Rover Limited.
Activity Address	Speke Boulevard Halewood Liverpool L24 9BJ
National Grid Reference	344408 384030
Document reference dates for Site Condition Report at permit application and surrender	Environmental Permit Variation, Site Condition Report. SLR ref. 416.064966.00001 November 2023
Document reference for site plans (including location and boundaries)	Drawing 001 Site Location Plan, November 2023 Drawing 002 Site Layout and Environmental Permit Boundary, November 2023

Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- *Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.*
- *Locations of receptors, sources of emissions/releases, and monitoring points.*
- *Site drainage.*
- *Site surfacing.*

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.2 Condition of the Land at Permit Issue

Table B: Site Condition at Permit Issue

Environmental Setting, including: <ul style="list-style-type: none"> • Geology • Hydrogeology • Surface Waters 	<p>Geology</p> <p>A review of the Groundsure Report (Appendix A) reveals that the site is underlain by bedrock of Chester Pebble Beds Foundation – Sandston, characteristic of this region.</p> <p>The site is underlain with superficial deposits of Till, Devensian – Diamicton.</p> <p>Hydrogeology</p> <p>The bedrock formations underlying the site is designated as a Principal Aquifer according to the Groundsure Report and Multi-</p>
---	---



	<p>Agency Geographical Information for the Countryside (MAGIC) map².</p> <p>Groundwater Vulnerability Groundsure and MAGIC map shows that the site lies in an area classified as 'low' in terms of groundwater vulnerability for both the superficial and bedrock geology.</p> <p>Source Protection Zones The Site is not located within a groundwater Source Protection Zone.</p> <p>Hydrology The Flood Map for Planning³ identifies the Site as lying in a Flood Zone 1 which is defined as 'land having a less than 1 in 1,000 annual probability of river or sea flooding'.</p> <p>The nearest surface water receptor to the site is a brook situated 1 km to the south east of the site.</p> <p>The nearest significant body of water is the River Mersey which is located approximately 2 km to the south and 4.2 km to the southeast.</p>
<p>Pollution History, including;</p> <ul style="list-style-type: none"> • Pollution incidents that may have affected land • Historical land-uses and associated contaminants • Any visual/olfactory evidence of existing contamination • Evidence of damage to pollution prevention measures 	<p>Pollution Incidents Review of a Groundsure report (Appendix A) produced for the Site reveals there have been 2 pollution incidents within 500m of the Site. Both pollution incidents involved release of inorganic pollutants (acids) 391 m southwest of the site and occurred on the 20/01/2003 with a category 3 (minor) impact on water, with no impact on land or air.</p> <p>Waste Management Activities Review of the Groundsure report reveals there is one registered waste management activity within 500m of the Site;</p> <ul style="list-style-type: none"> • Located 86 m East of the site; Ford Halewood Site, L24 9LE. This is classified as an in-house storage facility. EP ref FMC001. <p>There are 36 waste exemptions recorded within 500m of the Site, 8 of which are located 80 m SW of the site at the Jaguar Land Rover Assembly Plant, Liverpool L24 9B. These activities include:</p> <ul style="list-style-type: none"> • Storage of waste in a secure place (storing waste exemption) • Preparatory treatments (baling, sorting, shredding etc) (treating waste exemption)

² Multi-Agency Geographical Information for the Countryside Map, available at www.magic.gov.uk, accessed November 2023.

³ Gov.uk Flood Map for Planning, available at <https://flood-map-for-planning.service.gov.uk/>, accessed November 2023



	<ul style="list-style-type: none">• Screening and blending of waste. (treating waste exemption)• Recovery of scrap metal (treating waste exemption)• Use of waste in construction (Using waste exemption) <p>There are 21 other waste exemptions 125 m E of the site, associated with the same post code as the site; L24 9BJ.</p> <h3>Industrial Activities</h3> <p>Review of the Groundsure report reveals that there are 3 past industrial land uses on Site. These are reported as 'unspecified works' and 'motor car works' in the Groundsure report.</p> <p>A further 9 recent industrial land uses are registered within 250 m of the Site, the two in the closest vicinity (173 m West) are associated with the Jaguar Land Rover Halewood Plant. These are associated with the wider Motor Factory compound, within which the Site is situated.</p> <p>In total, there are 17 historical licensed industrial activities being undertaken on site or within 500m of it.</p> <h3>Historic Mining</h3> <p>No historic coal mining or metal mining was undertaken within 500m of the site in the Groundsure report. Two non-coal mining records were noted within 1000 m of the site:</p> <ul style="list-style-type: none">• At 495 m North: Vein mineral (underground workings uncommon)• At 960 m North: Vein mineral (underground workings uncommon) <h3>Surface Ground Workings</h3> <p>The Groundsure report reveals 10 records of ground excavations at the surface within 250 m of the site. All records are for ponds, spanning from 1851 – 1956.</p> <h3>Radon Potential</h3> <p>The Groundsure report reveals that the site is situated in a Radon Potential classification of less than 1 %. No radon protection measures are required.</p> <h3>Historical Tanks</h3> <p>The Groundsure report specifies 66 historic tanks located within 500 m of the Site, the closest being 204 m west (circa 1965 – 1967).</p> <h3>Historical Energy Features</h3> <p>The Groundsure report specifies 9 historic energy features located within 500 m of the Site, the closest being 258 m north west (circa 1989 – 1993). These were electrical substations.</p> <h3>Historical Petrol Stations & Garages</h3>
--	---



No historic petrol stations or garages were identified in the Groundsure report or historic maps within 500m of the site.

Historic Railways

Twelve historic railway features were identified by the Groundsure report, within 250 m of the site. These consist solely of railway sidings, the majority located between 153 m to 205 m north of the site (circa 1966- 1991).

Historical Waste Sites

Review of the Groundsure report reveals that there is 1 historical waste site registered within 500m of the Site; 295 m West; Waste Storage Facility (Planning Application granted for a chemical wastes storage facility).

Licensed Waste Sites

Review of the Groundsure report reveals that there is one licensed waste site within 500m of the site:

- (86 m E) Ford Motor Co Ltd. Ford Halewood Site, Halewood, Liverpool, L24 9LE. Environmental Permitting Regulations (Waste) Licence Number: FMC001.

This is within the wider Motor factory compound, within which the Site is situated.

Licensed Discharges to Controlled Waters

A review of the Groundsure report revealed that there are no licensed discharges to controlled waters registered within 500m of the Site.

Visible Evidence of Contamination

The operator is unaware of any known visible evidence of pollution or contamination in the Site area. As the Site is in a secure compound, there is limited opportunity for pollution or contamination to have taken place.

Damage to Pollution Prevention Measures

The operator is unaware of any damage to pollution prevention measures in place on Site.

Historical Land Uses

A review of the historical mapping provided within the Groundsure Report reveals that the area within the Site boundary and the neighbouring land was principally used as agricultural land, until the development of the Ford Motor Factory in 1962.

Historical Mapping

A review of the historical mapping provided with the Groundsure report indicates the Site area was used for farmland prior to its conversion to commercial use.

The principal land uses of the Site boundary and immediately surrounding area are summarised below;



	<ul style="list-style-type: none"> • 1891 – 1894 (earliest available map) The Site area lies in a predominantly agricultural area. The Site boundary is situated to the north of a tree plantation, with a small unnamed surface water body approximately 25 m to the southwest. The surface water feature “Wright’s Moat” is located approximately 200 m to the East of the site boundary. Whitfield Farm is located approximately 400 m south of the site. Approximately 490m to the north is the London and North (Manchester Warrington) Railway, which runs east and west. Speke Railway Station is roughly 1 km to the northwest of the site. • 1894 – 1925. No changes in land use are noted within the environmental permit boundary or within 500m. • 1925 -1938. No changes in land use are noted within the environmental permit boundary or within 500m. The wider area undergoes residential and industrial expansion, namely the village of Speke to the southwest and Hunt’s Cross to the northwest. • 1954 -1956. No changes in land use are noted within the environmental permit boundary. Residential and industrial developments at Speke to the southwest and Hunt’s Cross to the northwest have expanded significantly, to within 500 m of the site boundary. • 1966 -1968: The site boundary and immediate area are developed as the Motor Car Works, as well as further developments occurring across the local transport network for roads and railway. • 1980 -2001: No changes to land use are noted within the environmental permit boundary. The landscape surrounding the Motor Factory is primarily comprised of industrial areas to the east and west, with residential to the north and south. • 2010 -2023: No changes to land use are noted within the environmental permit boundary. The area to the west of the Motor Factory, between Renaissance Way and the Factory has been developed with an Industrial Park, comprising 4 primary industrial warehouses and associated smaller buildings and road network.
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>None</p>
<p>Baseline soil and groundwater reference data</p>	<p>BGS Estimated Background Soil Chemistry is provided in the Groundsure Report (Appendix A)</p> <p>On site records include:</p> <ul style="list-style-type: none"> • Arsenic 15-25 mg/kg • Lead 100 mg/kg • Cadmium 1.8 mg/kg • Chromium 90 -120 mg/kg • Nickel 15 – 30 mg/kg
<p>Supporting information</p>	<p>Appendix A Groundsure Report</p>



2.3 Permitted Activities

Table C: Permitted Activities

<p>Permitted activities</p>	<p>The activities at the Site are regulated as a bespoke installation activity as per the Environmental Permitting (England and Wales) Regulations 2016 (as amended).</p> <p>Schedule 1.1 A(1) (a): Burning any fuel in an applicated with an aggregated rated thermal input of 50 megawatts or more.</p> <p>No waste management activities as described in the Waste Framework Directive 2008 will be undertaken at the Site.</p>
<p>Non-permitted activities undertaken</p>	<p>No non-waste framework activities associated with JLR Halewood Combustion Plant are undertaken within the Environmental Permit boundary.</p> <p>No registered exempt waste activities are undertaken within the Environmental Permit boundary.</p>
<p>Document references for:</p> <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<ul style="list-style-type: none"> • Drawing 002 Site Layout and Environmental Permit Boundary, November 2023 • SLR Consulting Ltd – Halewood Manufacturing Plant – Air Emissions Risk Assessment (ref. 416.064966.00001, November 2023).

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (Environmental Risk Assessment - EPR H1) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.



2.4 Changes to the Activity

Table D: Changes to the Activity

Have there been any changes to the activity boundary?	2023 – Application ref. EPR/BS5673IQ/V002 Permit boundary amended as shown in Drawing 002 Site Layout and Environmental Permit Boundary, November 2023
Have there been any changes to the permitted activities?	2023 – Application ref. EPR/BS5673IQ/V002 3 no. natural gas fired Hoval UltraGas boilers added. Each with a 1.518MW rated thermal input capacity. The Hoval boilers are proposed to be used to offset the need to use the existing La Mont boilers.
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	No
Checklist of supporting information	<ul style="list-style-type: none"> 416-064966-00001-EMPC-001_P0_Site Location Plan

2.5 Measures Taken to Protect the Land

Table E: Measures Taken to Protect the Land

<i>To be maintained during the life of the permit</i>	
Checklist of supporting information	-

2.6 Pollution Incidents and Remediation

Table F: Pollution Incidents and Remediation

<i>To be maintained during the life of the permit</i>	
Checklist of supporting information	-



2.7 Soil, Gas and Water Quality Monitoring

Table G: Soil, Gas and Water Quality Monitoring

<i>To be maintained during the life of the permit</i>	
Checklist of supporting information	





Appendix A Groundsure Report

EMS_907867_1158021

Halewood Manufacturing Plant – Environmental Permit Variation

Jaguar Land Rover Limited

SLR Project No.: 416.064966.00001

29 January 2024

unspecified

Order Details

Date: 16/11/2023
Your ref: EMS_907867_1124573
Our Ref: EMS-907867_1158021

Site Details

Location: 344408 384030
Area: 0.04 ha
Authority: [Knowsley Metropolitan Borough Council](#)
↗



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	3	0	3	11	-
16 >	1.2 >	Historical tanks >	0	0	10	27	-
18 >	1.3 >	Historical energy features >	0	0	0	5	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
19	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
20 >	2.1 >	Historical industrial land uses >	3	0	3	26	-
22 >	2.2 >	Historical tanks >	0	0	14	52	-
24 >	2.3 >	Historical energy features >	0	0	0	9	-
25	2.4	Historical petrol stations	0	0	0	0	-
25	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
27 >	3.5 >	Historical waste sites >	0	0	0	1	-
27 >	3.6 >	Licensed waste sites >	0	0	1	0	-
28 >	3.7 >	Waste exemptions >	0	0	29	7	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	4.1 >	Recent industrial land uses >	0	0	9	-	-
32 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
32	4.3	Electricity cables	0	0	0	0	-
32	4.4	Gas pipelines	0	0	0	0	-
33	4.5	Sites determined as Contaminated Land	0	0	0	0	-



33 >	4.6 >	<u>Control of Major Accident Hazards (COMAH) ></u>	1	0	0	0	-
33	4.7	Regulated explosive sites	0	0	0	0	-
33 >	4.8 >	<u>Hazardous substance storage/usage ></u>	0	0	0	1	-
34 >	4.9 >	<u>Historical licensed industrial activities (IPC) ></u>	0	0	5	0	-
35 >	4.10 >	<u>Licensed industrial activities (Part A(1)) ></u>	0	0	2	8	-
37 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	1	5	-
38	4.12	Radioactive Substance Authorisations	0	0	0	0	-
38	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
38	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.15	Pollutant release to public sewer	0	0	0	0	-
38	4.16	List 1 Dangerous Substances	0	0	0	0	-
39	4.17	List 2 Dangerous Substances	0	0	0	0	-
39 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	0	2	-
39 >	4.19 >	<u>Pollution inventory substances ></u>	0	0	3	1	-
41 >	4.20 >	<u>Pollution inventory waste transfers ></u>	0	0	1	1	-
45	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
46 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
48 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
50 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
51	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
51	5.5	Groundwater vulnerability- local information	None (within 0m)				
52 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	54
66	5.7	Surface water abstractions	0	0	0	0	0
66	5.8	Potable abstractions	0	0	0	0	0
67	5.9	Source Protection Zones	0	0	0	0	-
67	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
68	6.1	Water Network (OS MasterMap)	0	0	0	-	-



68	6.2	Surface water features	0	0	0	-	-
69 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
69	6.4	WFD Surface water bodies	0	0	0	-	-
69 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
71	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
71	7.2	Historical Flood Events	0	0	0	-	-
71	7.3	Flood Defences	0	0	0	-	-
72	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
72	7.5	Flood Storage Areas	0	0	0	-	-
73	7.6	Flood Zone 2	None (within 50m)				
73	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
74	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
75 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
76	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
77	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
77	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
77	10.4	Special Protection Areas (SPA)	0	0	0	0	0
77	10.5	National Nature Reserves (NNR)	0	0	0	0	0
78 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
78 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	2
78	10.8	Biosphere Reserves	0	0	0	0	0
79	10.9	Forest Parks	0	0	0	0	0
79	10.10	Marine Conservation Zones	0	0	0	0	0
79 >	10.11 >	Green Belt >	0	0	0	0	5
79	10.12	Proposed Ramsar sites	0	0	0	0	0



80	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
80	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
80	10.15	Nitrate Sensitive Areas	0	0	0	0	0
80 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	1	3
82 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
83	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
84	11.1	World Heritage Sites	0	0	0	-	-
84	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
84	11.3	National Parks	0	0	0	-	-
84	11.4	Listed Buildings	0	0	0	-	-
85	11.5	Conservation Areas	0	0	0	-	-
85	11.6	Scheduled Ancient Monuments	0	0	0	-	-
85	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
87	12.2	Open Access Land	0	0	0	-	-
87	12.3	Tree Felling Licences	0	0	0	-	-
87	12.4	Environmental Stewardship Schemes	0	0	0	-	-
87	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
88	13.1	Priority Habitat Inventory	0	0	0	-	-
88	13.2	Habitat Networks	0	0	0	-	-
88	13.3	Open Mosaic Habitat	0	0	0	-	-
88	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	14.1 >	10k Availability >	Identified (within 500m)				
90	14.2	Artificial and made ground (10k)	0	0	0	0	-
91 >	14.3 >	Superficial geology (10k) >	1	0	1	1	-



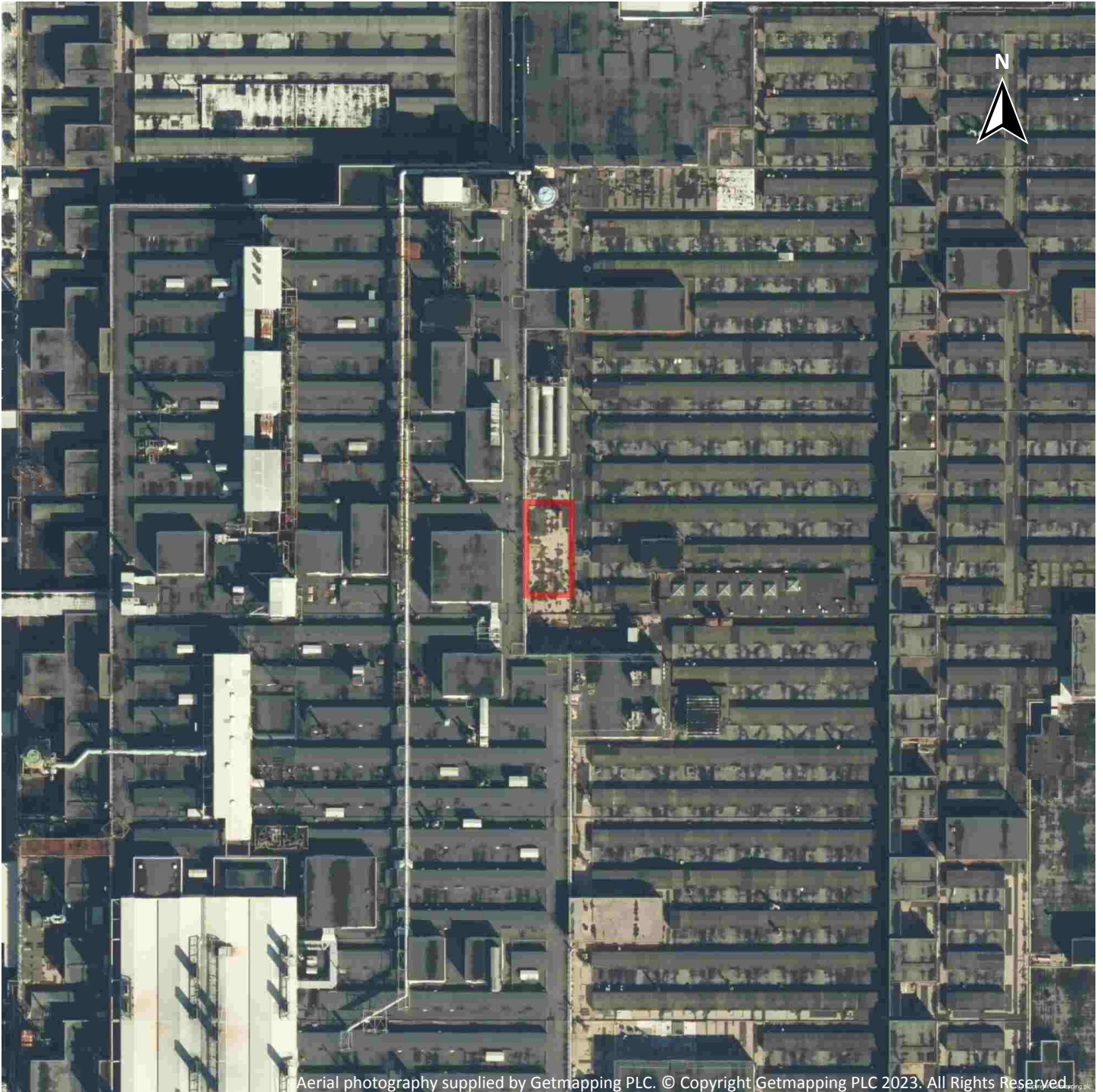
92	14.4	Landslip (10k)	0	0	0	0	-
93 >	14.5 >	Bedrock geology (10k) >	1	0	2	1	-
94 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	15.1 >	50k Availability >	Identified (within 500m)				
96	15.2	Artificial and made ground (50k)	0	0	0	0	-
96	15.3	Artificial ground permeability (50k)	0	0	-	-	-
97 >	15.4 >	Superficial geology (50k) >	1	0	0	1	-
98 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
98	15.6	Landslip (50k)	0	0	0	0	-
98	15.7	Landslip permeability (50k)	None (within 50m)				
99 >	15.8 >	Bedrock geology (50k) >	1	0	2	1	-
100 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
100 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
101 >	16.1 >	BGS Boreholes >	0	0	25	-	-
Page	Section	Natural ground subsidence >					
104 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
105 >	17.2 >	Running sands >	Very low (within 50m)				
106 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
107 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
108 >	17.5 >	Landslides >	Very low (within 50m)				
109 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
111	18.1	BritPits	0	0	0	0	-
112 >	18.2 >	Surface ground workings >	0	0	10	-	-
112	18.3	Underground workings	0	0	0	0	0
112	18.4	Underground mining extents	0	0	0	0	-
113	18.5	Historical Mineral Planning Areas	0	0	0	0	-



113 >	18.6 >	Non-coal mining >	0	0	0	1	1
113	18.7	JPB mining areas	None (within 0m)				
114	18.8	The Coal Authority non-coal mining	0	0	0	0	-
114	18.9	Researched mining	0	0	0	0	-
114	18.10	Mining record office plans	0	0	0	0	-
114	18.11	BGS mine plans	0	0	0	0	-
115	18.12	Coal mining	None (within 0m)				
115	18.13	Brine areas	None (within 0m)				
115	18.14	Gypsum areas	None (within 0m)				
115	18.15	Tin mining	None (within 0m)				
115	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
116	19.1	Natural cavities	0	0	0	0	-
116	19.2	Mining cavities	0	0	0	0	0
116	19.3	Reported recent incidents	0	0	0	0	-
116	19.4	Historical incidents	0	0	0	0	-
117	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
118 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
120 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	2	-	-	-
120	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
120	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
121	22.1	Underground railways (London)	0	0	0	-	-
121	22.2	Underground railways (Non-London)	0	0	0	-	-
122	22.3	Railway tunnels	0	0	0	-	-
122 >	22.4 >	Historical railway and tunnel features >	0	0	12	-	-
123	22.5	Royal Mail tunnels	0	0	0	-	-

123	22.6	Historical railways	0	0	0	-	-
123	22.7	Railways	0	0	0	-	-
123	22.8	Crossrail 1	0	0	0	0	-
123	22.9	Crossrail 2	0	0	0	0	-
124	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 28/09/2022

Site Area: 0.04ha



Recent site history - 2019 aerial photograph



Capture Date: 22/04/2019

Site Area: 0.04ha



Recent site history - 2009 aerial photograph



Capture Date: 24/06/2009

Site Area: 0.04ha



Recent site history - 2005 aerial photograph



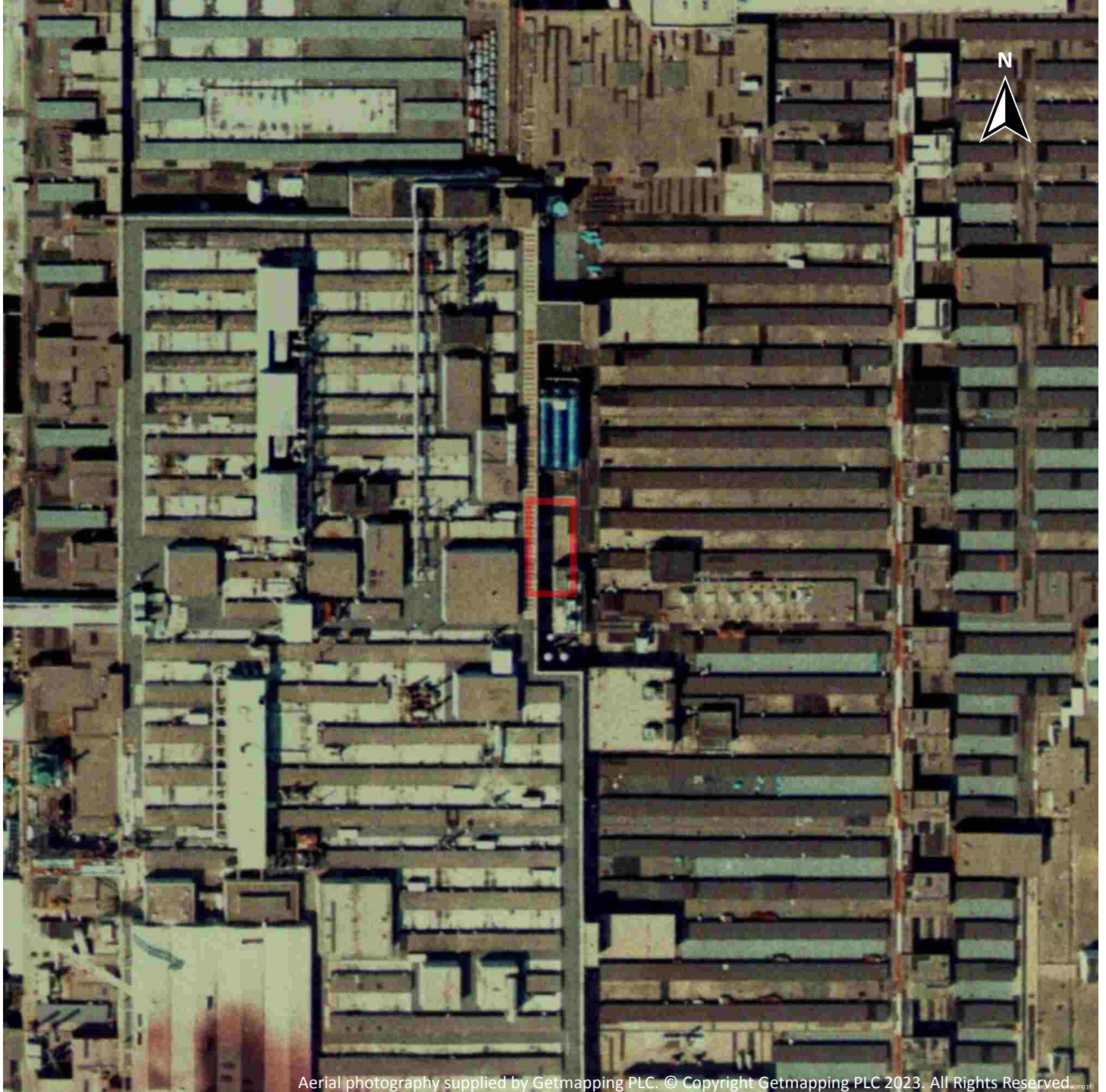
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved.

Capture Date: 15/05/2005

Site Area: 0.04ha



Recent site history - 2000 aerial photograph

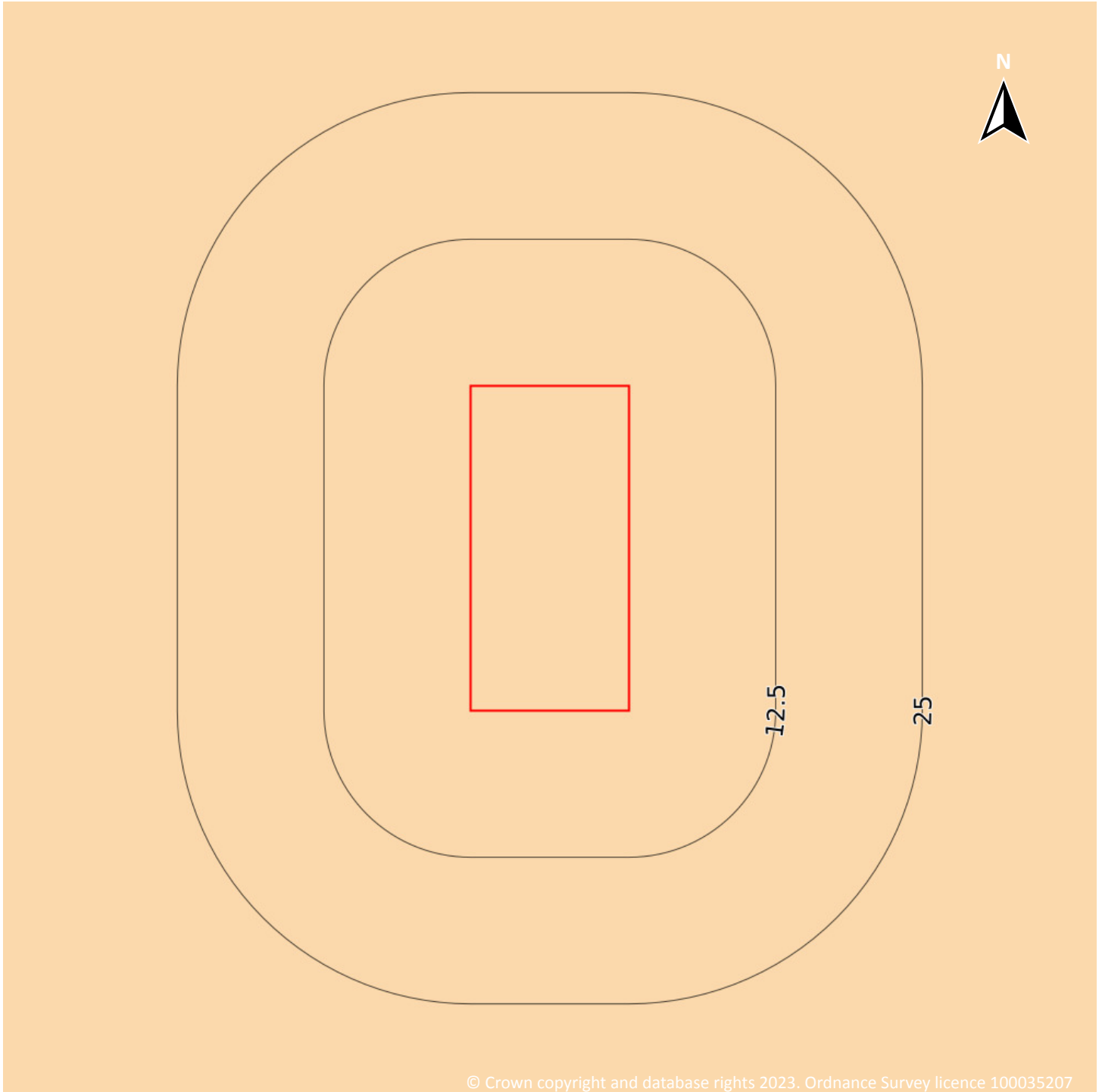


Capture Date: 21/07/2000

Site Area: 0.04ha

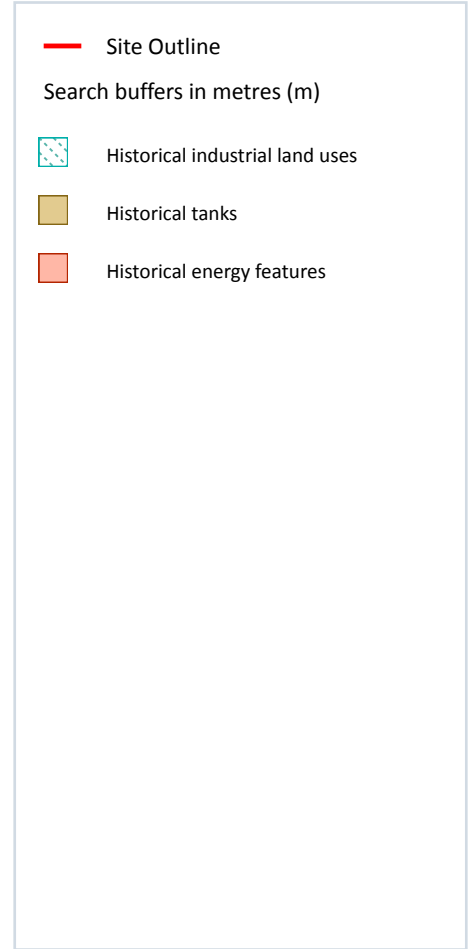
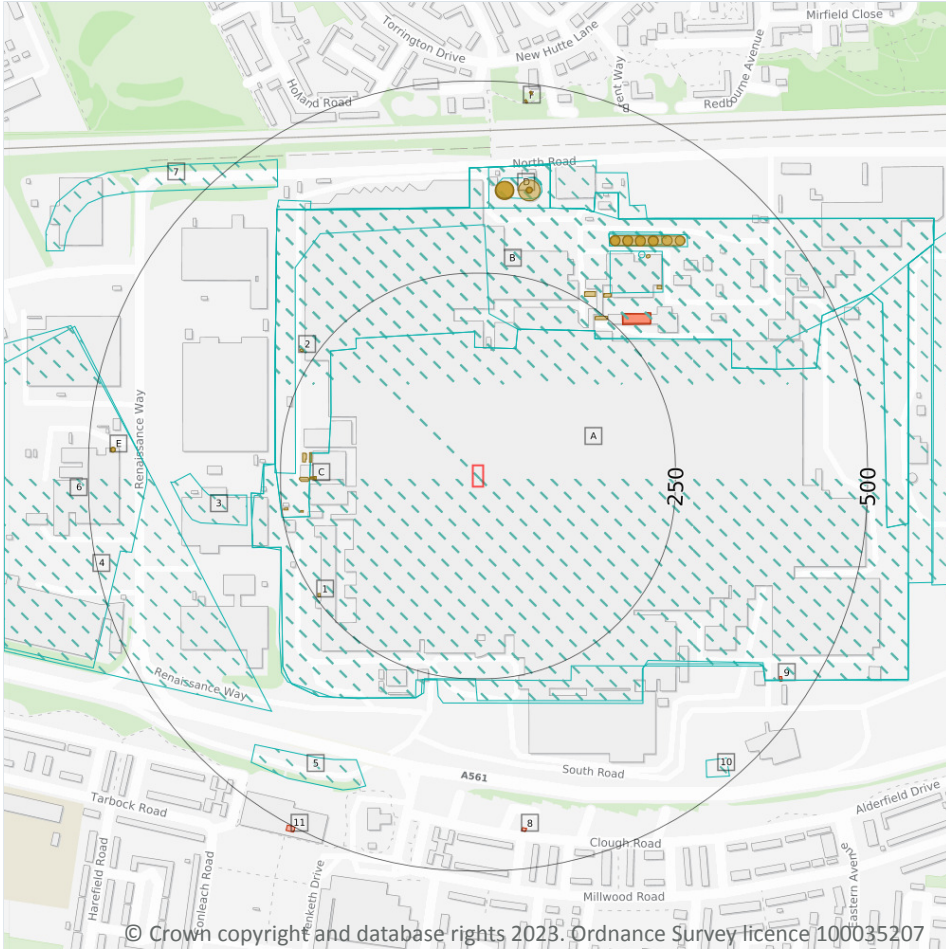


OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m

17

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Motor Car Works	1966	794080



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Works	1991	929666
A	On site	Unspecified Works	1980 - 1982	967692
B	153m N	Railway Sidings	1966	853736
B	153m N	Railway Sidings	1980	923136
B	183m N	Railway Sidings	1991	858670
B	279m NE	Chimneys	1966	844024
3	294m W	Cuttings	1966 - 1991	896068
B	329m NE	Unspecified Tanks	1966 - 1980	892348
B	330m NE	Unspecified Tanks	1991	908471
B	339m NE	Unspecified Tank	1966 - 1991	928827
D	349m N	Unspecified Tanks	1966 - 1991	902969
4	366m SW	Engineering Works	1956 - 1966	979726
5	386m SW	Cuttings	1966 - 1991	942094
6	424m W	Unspecified Works	1980 - 1991	901815
7	442m NW	Cuttings	1966 - 1991	930971
10	459m SE	Cuttings	1966 - 1991	964919

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

37

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
C	204m W	Tanks	1965	133480
C	204m W	Tanks	1967	125738



ID	Location	Land use	Dates present	Group ID
C	207m W	Tanks	1965	137087
C	209m W	Tanks	1965 - 1967	144414
C	213m W	Tanks	1989 - 1993	124047
C	217m W	Tanks	1989 - 1993	148773
C	223m W	Unspecified Tank	1989	112379
B	239m NE	Tanks	1989 - 1993	142925
C	242m W	Unspecified Tank	1989	112376
1	242m SW	Unspecified Tank	1974	112378
B	257m NE	Unspecified Tank	1965 - 1993	129109
2	266m NW	Unspecified Tank	1989 - 1993	136193
B	269m NE	Unspecified Tank	1965 - 1993	141405
B	322m NE	Unspecified Tank	1965 - 1974	148776
B	332m NE	Tanks	1989	148434
B	333m NE	Unspecified Tank	1965 - 1967	147264
B	333m NE	Tanks	1974 - 1993	137984
B	341m NE	Unspecified Tank	1965 - 1967	135061
B	341m NE	Tanks	1974 - 1993	134700
B	344m NE	Unspecified Tank	1989 - 1993	145258
D	347m N	Unspecified Tank	1965 - 1967	132664
D	347m N	Unspecified Tank	1989	128713
D	348m N	Unspecified Tank	1993	133366
D	349m N	Unspecified Tank	1967	142444
B	350m NE	Unspecified Tank	1965 - 1967	124274
B	350m NE	Tanks	1974 - 1993	141493
D	359m N	Unspecified Tank	1989	131393
D	359m N	Unspecified Tank	1965	132197
D	360m N	Unspecified Tank	1993	146440
B	360m NE	Tanks	1974 - 1993	124081



ID	Location	Land use	Dates present	Group ID
B	360m NE	Unspecified Tank	1965 - 1967	141131
B	372m NE	Tanks	1993	129991
B	383m NE	Tanks	1993	130343
E	465m W	Unspecified Tank	1993	125333
E	466m W	Unspecified Tank	1971 - 1992	125798
F	474m N	Unspecified Tank	1907 - 1936	142233
F	486m N	Unspecified Tank	1953	148666

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	5
----------------------------	----------

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	258m NE	Electricity Substation	1974 - 1989	80017
B	259m NE	Electricity Substation	1993	84299
8	447m S	Electricity Substation	1974 - 1989	82769
9	458m SE	Gas Governor	1989 - 1993	64568
11	499m SW	Electricity Substation	1974 - 1989	76277

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

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

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

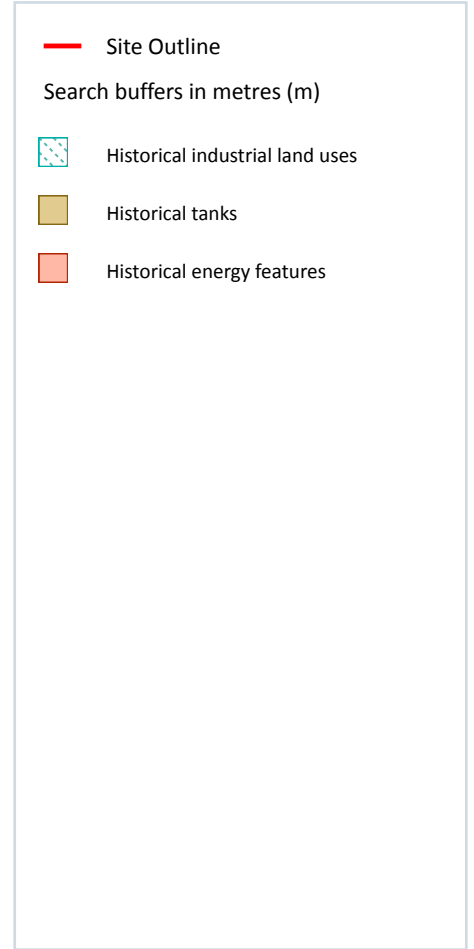
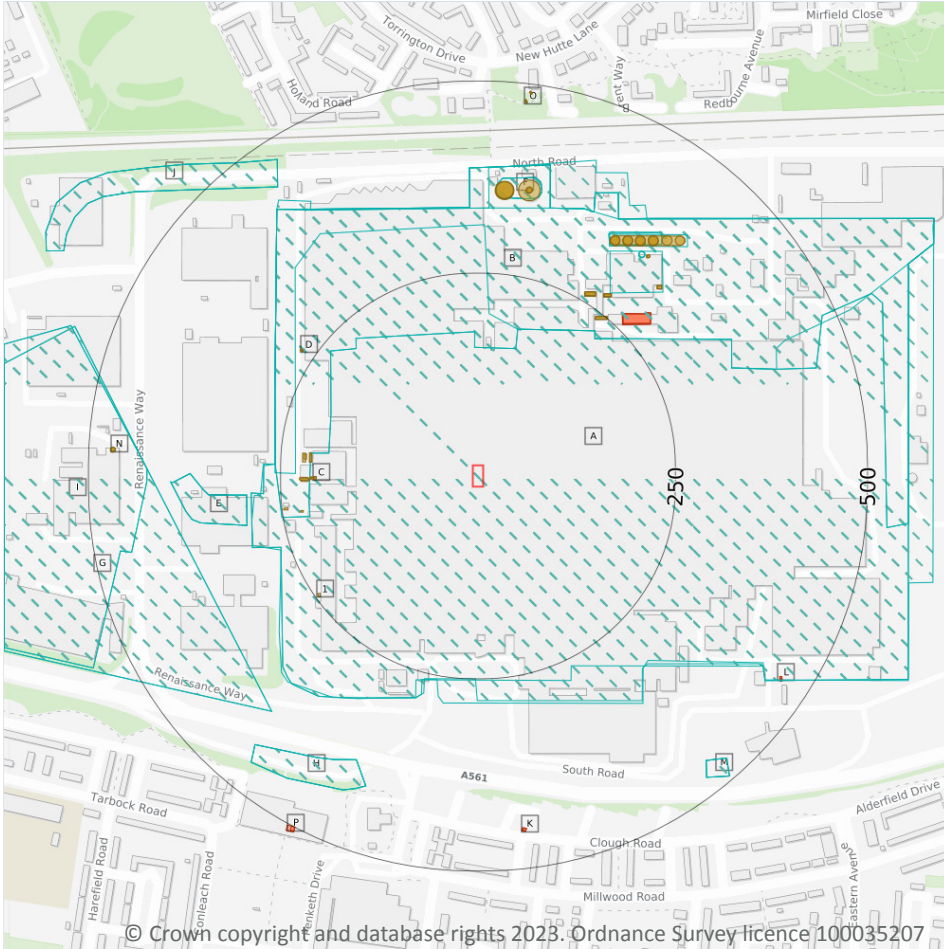
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

32

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Works	1980	967692
A	On site	Motor Car Works	1966	794080
A	On site	Unspecified Works	1991	929666

ID	Location	Land Use	Date	Group ID
B	153m N	Railway Sidings	1966	853736
B	153m N	Railway Sidings	1980	923136
B	183m N	Railway Sidings	1991	858670
B	279m NE	Chimneys	1966	844024
E	294m W	Cuttings	1980	896068
E	294m W	Cuttings	1966	896068
E	294m W	Cuttings	1991	896068
B	329m NE	Unspecified Tanks	1966	892348
B	330m NE	Unspecified Tanks	1991	908471
B	331m NE	Unspecified Tanks	1980	892348
B	339m NE	Unspecified Tank	1966	928827
B	340m NE	Unspecified Tank	1980	928827
B	340m NE	Unspecified Tank	1991	928827
F	349m N	Unspecified Tanks	1966	902969
F	349m N	Unspecified Tanks	1980	902969
F	349m N	Unspecified Tanks	1991	902969
G	366m SW	Engineering Works	1956	979726
G	366m SW	Engineering Works	1966	979726
H	386m SW	Cuttings	1966	942094
H	386m SW	Cuttings	1980	942094
H	386m SW	Cuttings	1991	942094
I	424m W	Unspecified Works	1991	901815
I	424m W	Unspecified Works	1980	901815
J	442m NW	Cuttings	1966	930971
J	442m NW	Cuttings	1980	930971
J	442m NW	Cuttings	1991	930971
M	459m SE	Cuttings	1966	964919
M	459m SE	Cuttings	1980	964919



ID	Location	Land Use	Date	Group ID
M	459m SE	Cuttings	1991	964919

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	66
----------------------------	-----------

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
C	204m W	Tanks	1965	133480
C	204m W	Tanks	1967	125738
C	207m W	Tanks	1965	137087
C	209m W	Tanks	1965	144414
C	210m W	Tanks	1967	144414
C	213m W	Tanks	1993	124047
C	214m W	Tanks	1989	124047
C	217m W	Tanks	1993	148773
C	218m W	Tanks	1989	148773
C	223m W	Unspecified Tank	1989	112379
B	239m NE	Tanks	1989	142925
B	240m NE	Tanks	1993	142925
C	242m W	Unspecified Tank	1989	112376
1	242m SW	Unspecified Tank	1974	112378
B	257m NE	Unspecified Tank	1989	129109
B	257m NE	Unspecified Tank	1965	129109
B	257m NE	Unspecified Tank	1974	129109
B	257m NE	Unspecified Tank	1967	129109
B	258m NE	Unspecified Tank	1993	129109



ID	Location	Land Use	Date	Group ID
D	266m NW	Unspecified Tank	1993	136193
D	267m NW	Unspecified Tank	1989	136193
B	269m NE	Unspecified Tank	1989	141405
B	270m NE	Unspecified Tank	1965	141405
B	270m NE	Unspecified Tank	1974	141405
B	270m NE	Unspecified Tank	1967	141405
B	270m NE	Unspecified Tank	1993	141405
B	322m NE	Unspecified Tank	1965	148776
B	322m NE	Unspecified Tank	1974	148776
B	323m NE	Unspecified Tank	1967	148776
B	332m NE	Tanks	1989	148434
B	333m NE	Unspecified Tank	1967	147264
B	333m NE	Unspecified Tank	1965	147264
B	333m NE	Tanks	1974	137984
B	333m NE	Tanks	1993	137984
B	341m NE	Unspecified Tank	1967	135061
B	341m NE	Unspecified Tank	1965	135061
B	341m NE	Tanks	1974	134700
B	342m NE	Tanks	1993	134700
B	344m NE	Unspecified Tank	1989	145258
B	345m NE	Unspecified Tank	1993	145258
F	347m N	Unspecified Tank	1965	132664
F	347m N	Unspecified Tank	1989	128713
F	348m N	Unspecified Tank	1967	132664
F	348m N	Unspecified Tank	1993	133366
F	349m N	Unspecified Tank	1967	142444
B	350m NE	Unspecified Tank	1965	124274
B	350m NE	Tanks	1974	141493



ID	Location	Land Use	Date	Group ID
B	350m NE	Unspecified Tank	1967	124274
B	351m NE	Tanks	1993	141493
F	359m N	Unspecified Tank	1989	131393
F	359m N	Unspecified Tank	1965	132197
F	360m N	Unspecified Tank	1993	146440
B	360m NE	Unspecified Tank	1965	141131
B	360m NE	Tanks	1974	124081
B	360m NE	Unspecified Tank	1967	141131
B	360m NE	Tanks	1993	124081
B	372m NE	Tanks	1993	129991
B	383m NE	Tanks	1993	130343
N	465m W	Unspecified Tank	1993	125333
N	466m W	Unspecified Tank	1971	125798
N	466m W	Unspecified Tank	1992	125798
O	474m N	Unspecified Tank	1907	142233
O	475m N	Unspecified Tank	1927	142233
O	475m N	Unspecified Tank	1936	142233
O	486m N	Unspecified Tank	1953	148666
O	487m N	Unspecified Tank	1953	148666

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

9

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
B	258m NE	Electricity Substation	1989	80017



ID	Location	Land Use	Date	Group ID
B	258m NE	Electricity Substation	1974	80017
B	259m NE	Electricity Substation	1993	84299
K	447m S	Electricity Substation	1989	82769
K	447m S	Electricity Substation	1974	82769
L	458m SE	Gas Governor	1989	64568
L	460m SE	Gas Governor	1993	64568
P	499m SW	Electricity Substation	1989	76277
P	500m SW	Electricity Substation	1974	76277

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

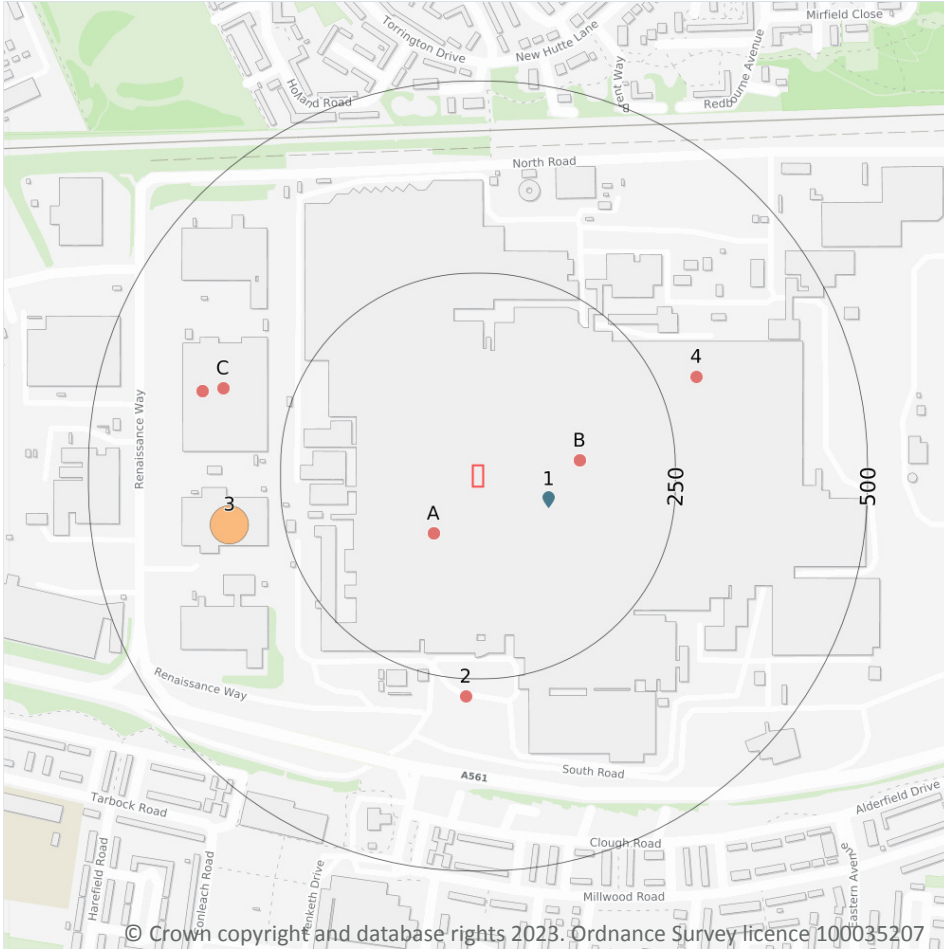
0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**1**

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Address	Further Details	Date
3	295m W	Site Address: Novartis Vaccines Site 4, Renaissance Way, LIVERPOOL, Merseyside, L24 9PY	Type of Site: Waste Storage Facility Planning application reference: 11F/0724 Description: Scheme comprises installation of provide new waste storage facility to store chemicals. Construction - hardcore site works. An application (ref: 11F/0724) for detailed planning permission was granted by Liverpool C.C. A detailed planning application ha been granted. Data source: Historic Planning Application Data Type: Point	18/09/2011

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m**1**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 26 >](#)



ID	Location	Details		
1	86m E	Site Name: Ford Halewood Site Site Address: Halewood Site, Halewood, Liverpool, Merseyside, L24 9LE Correspondence Address: Ford Motor Co Ltd, Eagle Way, Brentwood, Essex, CM13 3BW	Type of Site: In-House Storage Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FMC001 EPR reference: - Operator: Ford Motor Co Ltd Waste Management licence No: 53520 Annual Tonnage: 208	Issue Date: 19/11/1997 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	36
----------------------------	-----------

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	80m SW	Voith C/o Jaguar Land Rover LIVERPOOL L24 9BJ	EPR/DF0030JY /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	80m SW	Voith C/o Jaguar Land Rover LIVERPOOL L24 9BJ	EPR/DF0030JY /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
A	80m SW	Halewood Stamping and Assembly Plant LIVERPOOL L24 9BJ	EPR/WF0637N J/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
A	80m SW	Halewood Stamping and Assembly Plant LIVERPOOL L24 9BJ	EPR/WF0637N J/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
A	80m SW	Halewood Stamping and Assembly Plant LIVERPOOL L24 9BJ	EPR/WF0637N J/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	80m SW	Halewood Stamping and Assembly Plant LIVERPOOL L24 9BJ	EPR/WF0637N J/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	80m SW	Voith C/o Jaguar Land Rover LIVERPOOL L24 9BJ	EPR/DF0030JY /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
A	80m SW	Voith C/o Jaguar Land Rover LIVERPOOL L24 9BJ	EPR/DF0030JY /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Treating waste exemption	Not on a farm	Sorting mixed waste
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Treating waste exemption	Not on a farm	Screening and blending of waste
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Using waste exemption	Not on a farm	Use of waste in construction
B	125m E	-	WEX357296	Using waste exemption	Not on a farm	Use of waste in construction
B	125m E	-	WEX357296	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	125m E	-	WEX357296	Treating waste exemption	Not on a farm	Screening and blending of waste
B	125m E	-	WEX357296	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	125m E	-	WEX357296	Treating waste exemption	Not on a farm	Sorting mixed waste
B	125m E	-	WEX357296	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	125m E	-	WEX357296	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX083297	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Storing waste exemption	Not on a farm	Storage of waste in a secure place

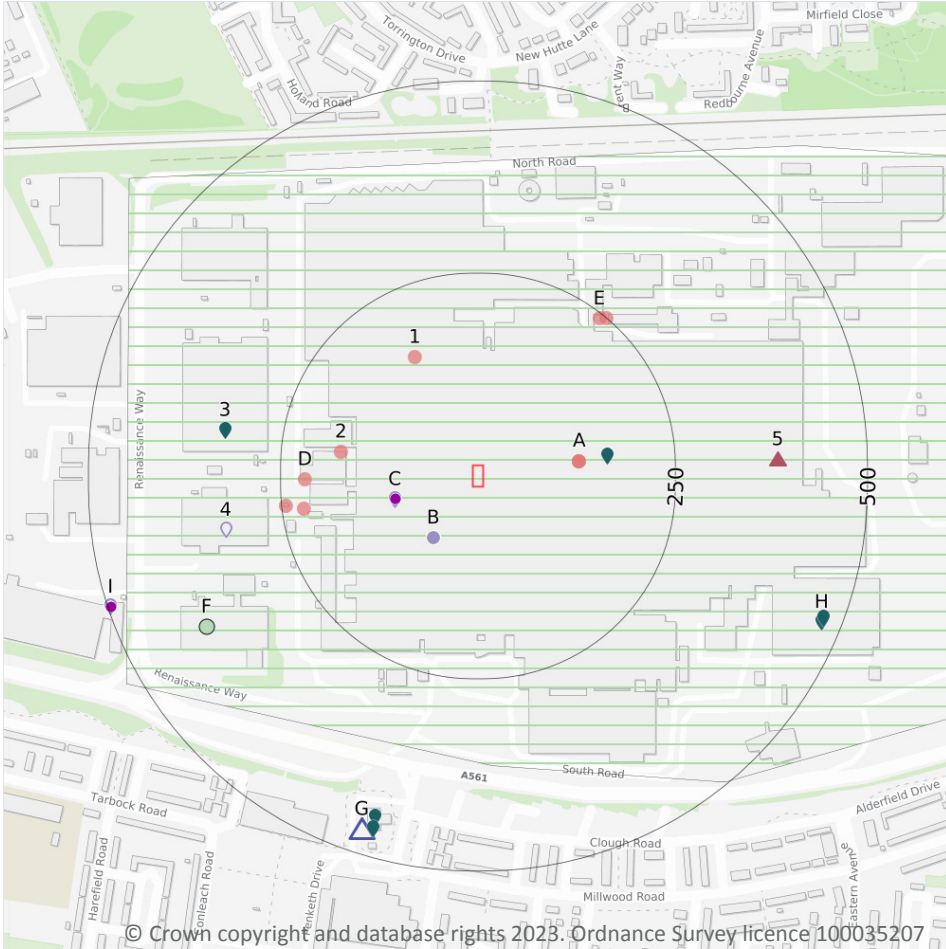


ID	Location	Site	Reference	Category	Sub-Category	Description
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Using waste exemption	Not on a farm	Use of waste in construction
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Treating waste exemption	Not on a farm	Screening and blending of waste
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Treating waste exemption	Not on a farm	Sorting mixed waste
B	125m E	HALEWOOD, LIVERPOOL, L24 9BJ	WEX228668	Storing waste exemption	Not on a farm	Storage of waste in secure containers
2	274m S	Shrubbery border to Managers Car Park	WEX264712	Using waste exemption	Not on a farm	Use of mulch
4	300m NE	-	WEX145260	Using waste exemption	Not on a farm	Use of waste in construction
C	341m W	6 Renaissance Way LIVERPOOL L24 9PL	EPR/AF0004FR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	341m W	6 Renaissance Way LIVERPOOL L24 9PL	EPR/AF0004FR /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	364m W	6, RENAISSANCE WAY, LIVERPOOL, L24 9PL	WEX140405	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	364m W	6, RENAISSANCE WAY, LIVERPOOL, L24 9PL	WEX140405	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	364m W	6, RENAISSANCE WAY, LIVERPOOL, L24 9PL	WEX309173	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ◊ Part A(1) industrial activities
- ◆ Licensed pollutant release (Part A(2)/B)
- Pollution incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m 9

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 31](#) >

ID	Location	Company	Address	Activity	Category
A	125m E	Ford Motor Co Ltd	Jaguar Plant, North Road, Halewood, Merseyside, L24 9BJ	Vehicles	Industrial Products
A	125m E	Jaguar & Land Rover	Jaguar Plant, North Road, Halewood, Merseyside, L24 9BJ	Vehicles	Industrial Products
1	160m NW	Works	Merseyside, L24	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
2	173m W	Electricity Sub Stations	Merseyside, L24	Electrical Features	Infrastructure and Facilities
D	219m W	Tank	Merseyside, L24	Tanks (Generic)	Industrial Features
D	221m W	Tank	Merseyside, L24	Tanks (Generic)	Industrial Features
E	243m NE	Tank	Merseyside, L24	Tanks (Generic)	Industrial Features
D	245m W	Tank	Merseyside, L24	Tanks (Generic)	Industrial Features
E	249m NE	Tank	Merseyside, L24	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Company	Address	LPG	Status
G	468m S	MORRISONS	1, Penketh Drive, Speke Boulevard, Speke, Liverpool, Merseyside, L24 2WZ	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m **0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m **1**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Company	Address	Operational status	Tier
A	On site	Ford Motor Co Ltd	Ford Motor Co Ltd, Halewood, Liverpool, L24 9LE	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m **0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m **1**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Details	
5	383m E	Application reference number: No Details Application status: Approved Application date: No Details Address: Ford Motor Co Ltd, Halewood, Liverpool, Merseyside, England, L24 9LE	Details: No Details Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	5
----------------------------	----------

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Details	
B	84m SW	Operator: Jaguar Cars Ltd Address: Halewood, Liverpool, L24 9BJ Process: Combustion Processes Permit Number: AA3620	Original Permit Number: IPCAPP Date Approved: 26-6-1992 Effective Date: 26-6-1992 Status: Superseded By Variation
B	84m SW	Operator: Jaguar Cars Ltd Address: Halewood, Liverpool, L24 9BJ Process: Combustion Processes Permit Number: AV0576	Original Permit Number: IPCMINVAR Date Approved: 3-10-1996 Effective Date: 10-10-1996 Status: Superseded By Variation
B	84m SW	Operator: Jaguar Cars Ltd Address: Halewood, Liverpool, L24 9BJ Process: Combustion Processes Permit Number: BD5330	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
B	84m SW	Operator: Jaguar Cars Ltd Address: Halewood, Liverpool, L24 9BJ Process: Combustion Processes Permit Number: BI7186	Original Permit Number: IPCMINVAR Date Approved: 26-6-2000 Effective Date: 3-7-2000 Status: Superseded By Variation
B	84m SW	Operator: Jaguar Cars Ltd Address: Halewood, Liverpool, L24 9BJ Process: Combustion Processes Permit Number: BJ3837	Original Permit Number: IPCMINVAR Date Approved: 12-7-2005 Effective Date: 12-7-2005 Status: Revoked - Now Ippc

This data is sourced from the Environment Agency and Natural Resources Wales.



4.10 Licensed industrial activities (Part A(1))

Records within 500m
10

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Details	
C	102m W	Operator: Jaguar Land Rover Limited Installation Name: Halewood Combustion Plant EPR/BS5673IQ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: PP3234EE Original Permit Number: BS5673IQ	EPR Reference: - Issue Date: 12/12/2013 Effective Date: 12/12/2013 Last date noted as effective: 21/03/2023 Status: Effective
C	102m W	Operator: JAGUAR LAND ROVER LIMITED Installation Name: Halewood Combustion Plant EPR/BS5673IQ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BS5673IQ Original Permit Number: BS5673IQ	EPR Reference: EPR/BS5673IQ Issue Date: 12/12/2013 Effective Date: 12/12/2013 Last date noted as effective: 08/11/2023 Status: Effective
4	326m W	Operator: SEQIRUS VACCINES LIMITED Installation Name: Speke Vaccine Manufacture Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: KP3330LF Original Permit Number: KP3330LF	EPR Reference: EPR/KP3330LF Issue Date: 20/12/2006 Effective Date: 20/12/2006 Last date noted as effective: 08/11/2023 Status: Revoked
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: BP3837TH Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 19/10/2010 Effective Date: 19/10/2010 Last date noted as effective: 21/03/2023 Status: Superseded
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: TP3030GT Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 26/01/2009 Effective Date: 30/01/2009 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: TP3239EU Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 29/11/2013 Effective Date: 29/11/2013 Last date noted as effective: 21/03/2023 Status: Superseded
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: TP3339ZM Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 23/11/2012 Effective Date: 23/11/2012 Last date noted as effective: 21/03/2023 Status: Superseded
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: AP3839FQ Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 20/07/2011 Effective Date: 20/07/2011 Last date noted as effective: 21/03/2023 Status: Superseded
I	496m W	Operator: MEDIMMUNE UK LIMITED Installation Name: Renaissance Way, Speke Pharmaceuticals EPR/BL6241IR Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: BL6241IR Original Permit Number: BL6241IR	EPR Reference: EPR/BL6241IR Issue Date: 01/12/2017 Effective Date: 01/12/2017 Last date noted as effective: 08/11/2023 Status: Effective
I	496m W	Operator: Medimmune UK Ltd Installation Name: Renaissance Way, Speke Pharmaceuticals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES Permit Number: YP3830WJ Original Permit Number: BL6241IR	EPR Reference: - Issue Date: 25/02/2015 Effective Date: 25/02/2015 Last date noted as effective: 21/03/2023 Status: Superseded

This data is sourced from the Environment Agency and Natural Resources Wales.



4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m
6

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Address	Details	
A	161m E	Ford Motor, Co South Rd, Halewood, Liverpool, L24 9LE	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
3	325m W	Decoma-Merplas, 6 Renaissance Way, Boulevard Industrial Park, Halewood, L24 9PL	Process: Coating Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
G	448m S	WM Morrison (Speke), 1 Penketh Road, Speke, L24 2WZ	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
G	464m S	WM Morrison, Dry Cleaners, 1 Penketh Drive, Speke, Liverpool, L24 2WZ	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	474m SE	Jaguar Cars Ltd, Speke Boulevard, Halewood, L24 9LE	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	474m E	Jaguar Cars Ltd, PFS, Speke Boulevard, Halewood, L24 9LE	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

2

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Details	
F	391m SW	Incident Date: 20/01/2003 Incident Identification: 132261 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	391m SW	Incident Date: 20/01/2003 Incident Identification: 132261 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

4

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID: C, Location: 103m W, Permit: BS5673IQ
 Operator: Jaguar Land Rover Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Halewood Combustion Plant Speke Boulevard Liverpool Merseyside L24 9BJ
 Sector: Combustion, Sub-sector: Power
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - PM10	1000kg	0kg

ID: C, Location: 103m W, Permit: BS5673IQ
 Operator: Jaguar Land Rover Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Halewood Combustion Plant Speke Boulevard Liverpool Merseyside L24 9BJ
 Sector: Combustion, Sub-sector: Power
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	5059kg

ID: C, Location: 103m W, Permit: BS5673IQ
 Operator: Jaguar Land Rover Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Halewood Combustion Plant Speke Boulevard Liverpool Merseyside L24 9BJ
 Sector: Combustion, Sub-sector: Power
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	14085600kg

ID: I, Location: 497m W, Permit: BL6241IR
 Operator: Medimmune UK Ltd
 Activity: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES
 Address: Renaissance Way, Speke Pharmaceuticals PLOT 6 BOULEVARD INDUSTRIAL PARK LIVERPOOL MERSEYSIDE L24 9JW
 Sector: Chemicals, Sub-sector: Chemicals
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Air	Sulphur oxides (SO2 and SO3) as SO2	100000kg	Below Reporting Threshold
Wastewater	Total organic carbon (TOC)	50000kg	Below Reporting Threshold
Air	Carbon dioxide	10000000kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	Below Reporting Threshold
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	Below Reporting Threshold
Air	Particulate matter - PM10	1000kg	Below Reporting Threshold
Air	Hydrofluorocarbons (HFCs)	100kg	Below Reporting Threshold

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	2
----------------------------	----------

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID: C, Location: 103m W, Permit: BS5673IQ
 Operator: Jaguar Land Rover Limited
 Activity: COMBUSTION; ANY FUEL =>50MW
 Address: Halewood Combustion Plant Speke Boulevard Liverpool Merseyside L24 9BJ
 Sector: Combustion, Sub-sector: Power
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	3.3	absolute value	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	0.048	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D2	Land treatment (eg biodegradation of liquid or sludgy discards in soils, etc.)	0.085	absolute value	16 03 05	organic wastes containing dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	0.001	absolute value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	Yes
R9	Oil e-refining or other reuses of oil	0.902	absolute value	13 01 13	other hydraulic oils	Yes
R9	Oil e-refining or other reuses of oil	0.001	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes

ID: I, Location: 497m W, Permit: BL6241IR
Operator: Medimmune UK Ltd
Activity: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES
Address: Renaissance Way, Speke Pharmaceuticals PLOT 6 BOULEVARD INDUSTRIAL PARK LIVERPOOL MERSEYSIDE L24 9JW
Sector: Chemicals, Sub-sector: Chemicals
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	-	brt	15 01 02	plastic packaging	No
R4	Recycling/reclamation of metals and metal compounds	-	brt	15 01 04	metallic packaging	No
R1	Use principally as a fuel or other means to generate energy	8.43	absolute value	16 03 04	inorganic wastes other than those mentioned in 16 03 03	No
D10	Incineration on Land	-	brt	16 03 06	organic wastes other than those mentioned in 16 03 05	No
R1	Use principally as a fuel or other means to generate energy	9.026	absolute value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	16.28	absolute value	15 01 01	paper and cardboard packaging	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	42.35	absolute value	20 01 01	paper and cardboard	No
R9	Oil e-refining or other reuses of oil	-	brt	20 01 25	edible oil and fat	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	12.39	absolute value	15 01 06	mixed packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	20 01 08	biodegradable kitchen and canteen waste	No
R1	Use principally as a fuel or other means to generate energy	46.31	absolute value	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	15 01 02	plastic packaging	No
R1	Use principally as a fuel or other means to generate energy	116.27	absolute value	07 05 14	solid wastes other than those mentioned in 07 05 13	No
D10	Incineration on Land	-	brt	07 05 14	solid wastes other than those mentioned in 07 05 13	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	15 01 03	wooden packaging	No
R4	Recycling/reclamation of metals and metal compounds	13.64	absolute value	20 01 40	metals	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	20 01 38	wood other than that mentioned in 20 01 37	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	-	brt	16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	No
R4	Recycling/reclamation of metals and metal compounds	-	brt	16 06 04	alkaline batteries (except 16 06 03)	No
D10	Incineration on Land	-	brt	16 06 05	other batteries and accumulators	No
D10	Incineration on Land	-	brt	17 01 03	tiles and ceramics	No
R2	Solvent reclamation/regeneration	2	absolute value	07 05 04	other organic solvents, washing liquids and mother liquors	Yes
D10	Incineration on Land	2.72	absolute value	14 06 03	other solvents and solvent mixtures	Yes
D10	Incineration on Land	0.346	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	7.25	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D10	Incineration on Land	0.361	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
D10	Incineration on Land	0.19	absolute value	16 03 03	inorganic wastes containing dangerous substances	Yes
D10	Incineration on Land	0.42	absolute value	16 03 05	organic wastes containing dangerous substances	Yes
D10	Incineration on Land	0.37	absolute value	16 05 07	discarded inorganic chemicals consisting of or containing dangerous substances	Yes
D10	Incineration on Land	0.39	absolute value	16 05 08	discarded organic chemicals consisting of or containing dangerous substances	Yes
D10	Incineration on Land	0.051	absolute value	16 09 03	peroxides, for example hydrogen peroxide	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	11.62	absolute value	16 09 04	oxidising substances, not otherwise specified	Yes
D10	Incineration on Land	110.82	absolute value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
R1	Use principally as a fuel or other means to generate energy	6.78	absolute value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
R4	Recycling/reclamation of metals and metal compounds	3	absolute value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes
R4	Recycling/reclamation of metals and metal compounds	0.014	absolute value	16 06 01	lead batteries	Yes
D10	Incineration on Land	0.14	absolute value	06 02 04	sodium and potassium hydroxide	Yes
D10	Incineration on Land	15.84	absolute value	06 02 05	other bases	Yes
D10	Incineration on Land	5.2	absolute value	07 05 01	aqueous washing liquids and mother liquors	Yes
R4	Recycling/reclamation of metals and metal compounds	0.11	absolute value	20 01 21	fluorescent tubes and other mercury-containing waste	Yes

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

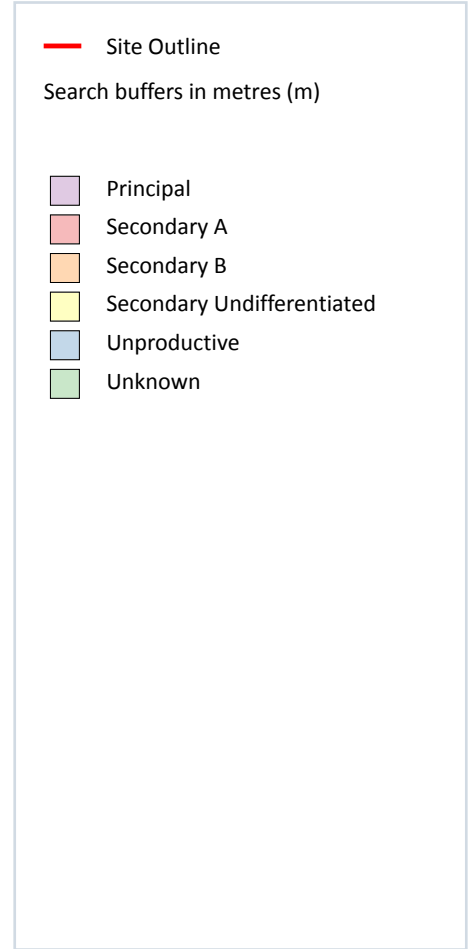
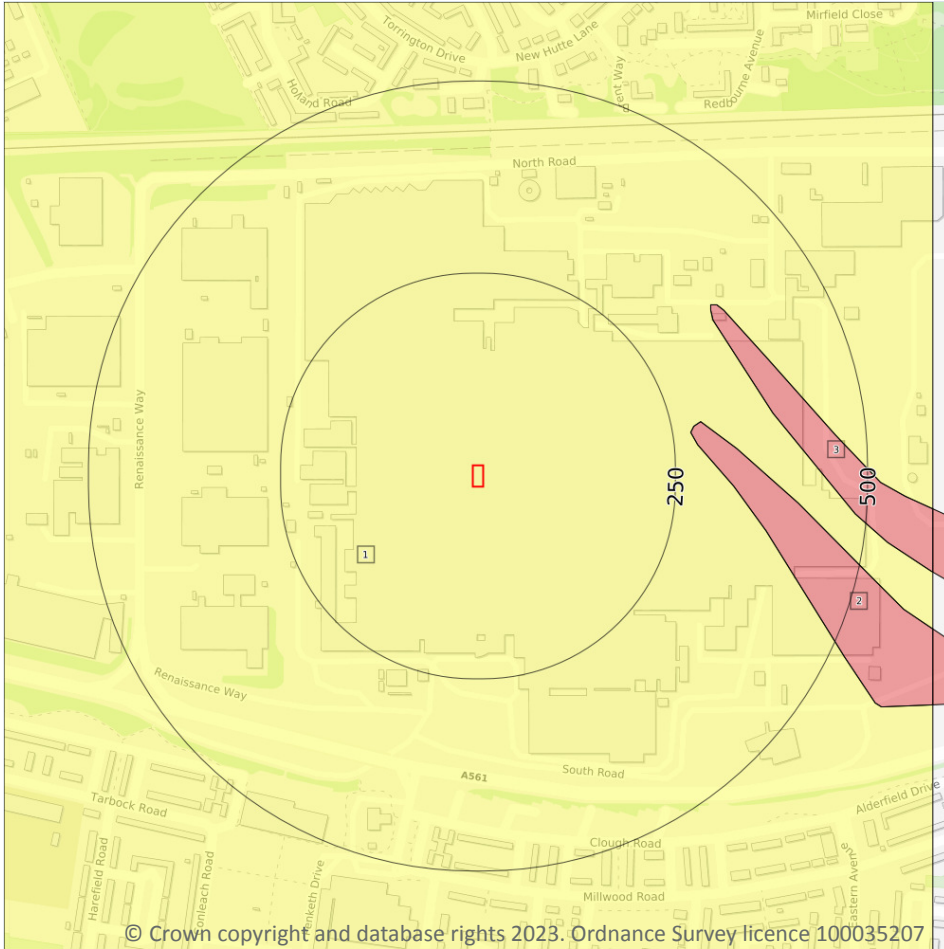
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 46 >](#)

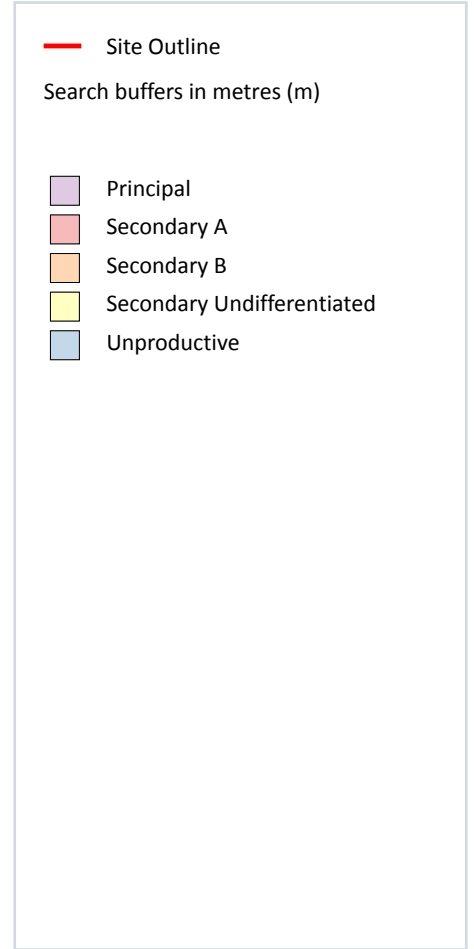
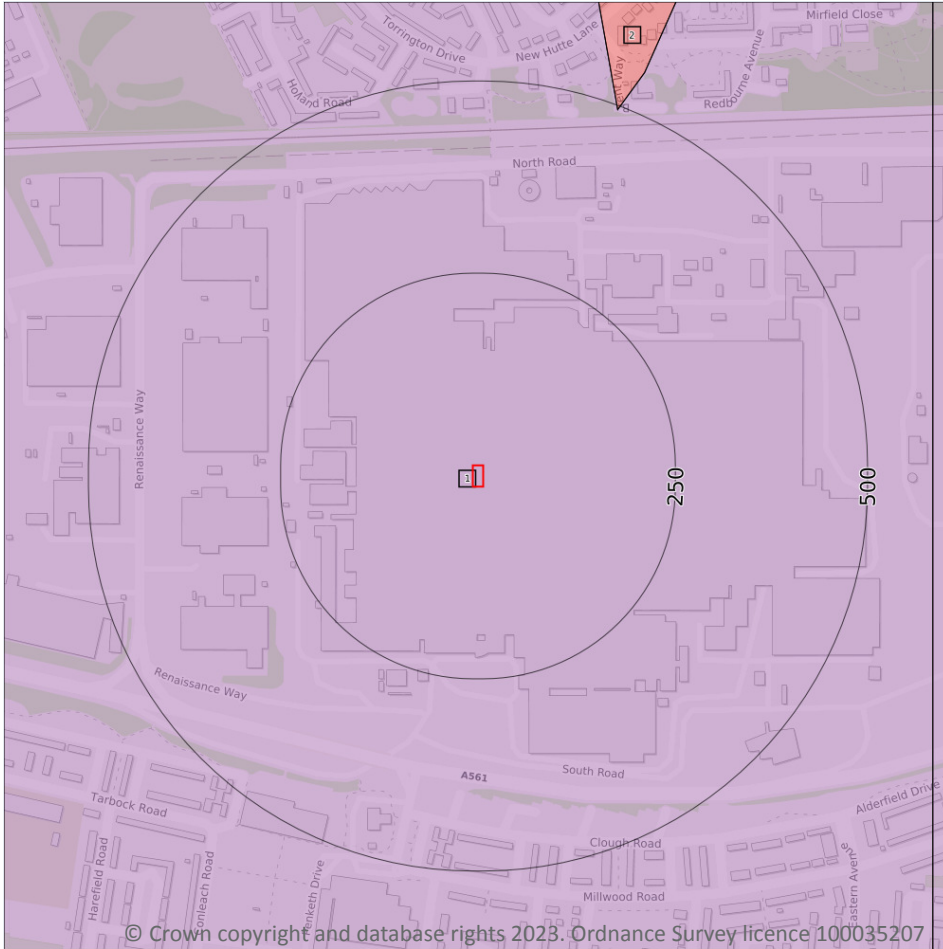
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	273m E	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

ID	Location	Designation	Description
3	354m NE	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

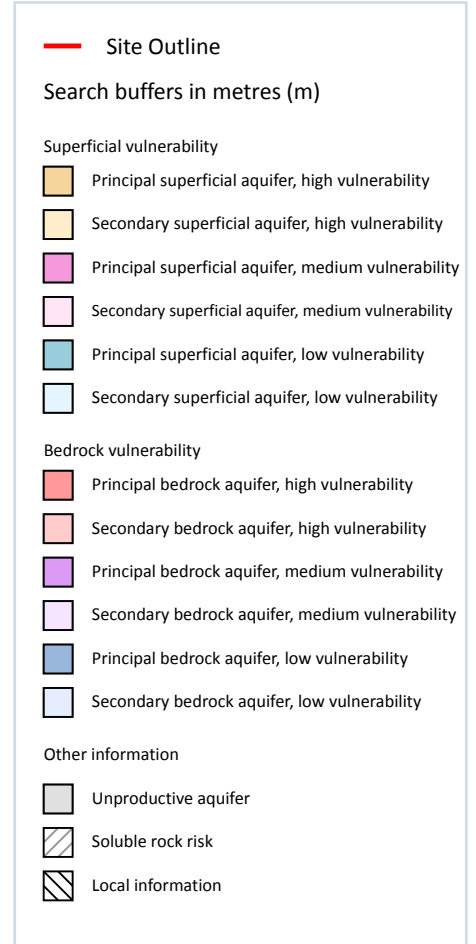
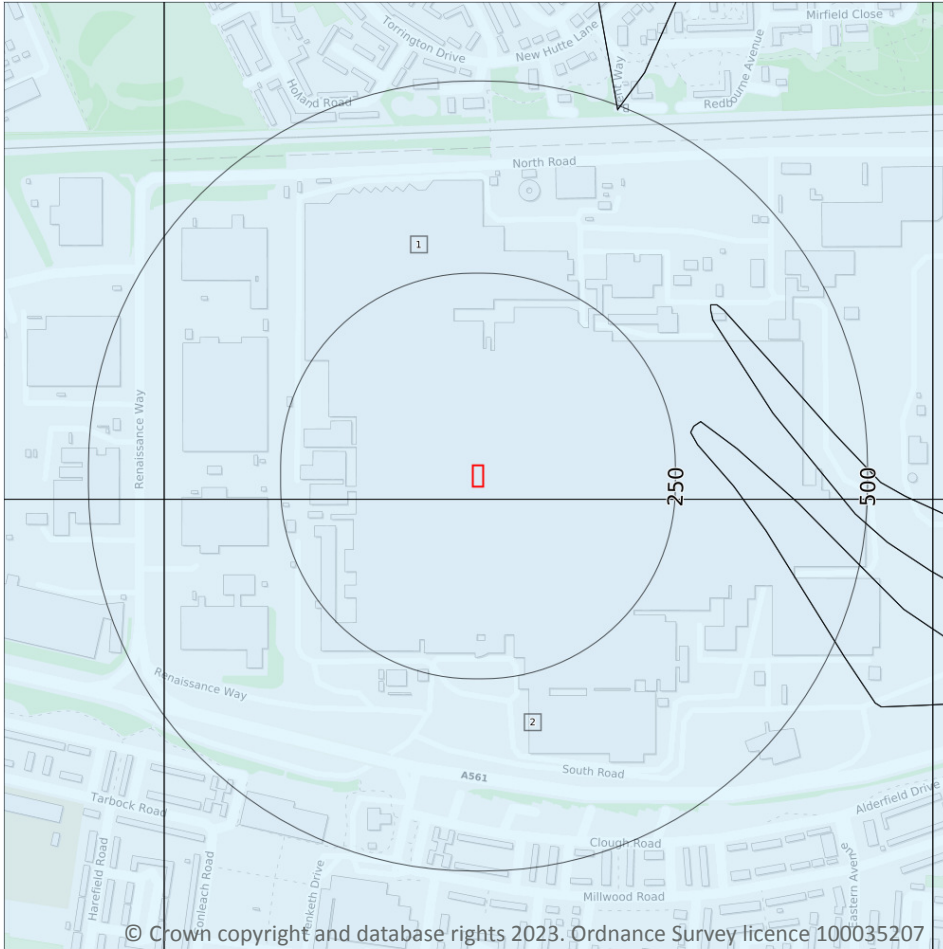
Features are displayed on the Bedrock aquifer map on [page 48](#) >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	495m N	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 50](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	16m S	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

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

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

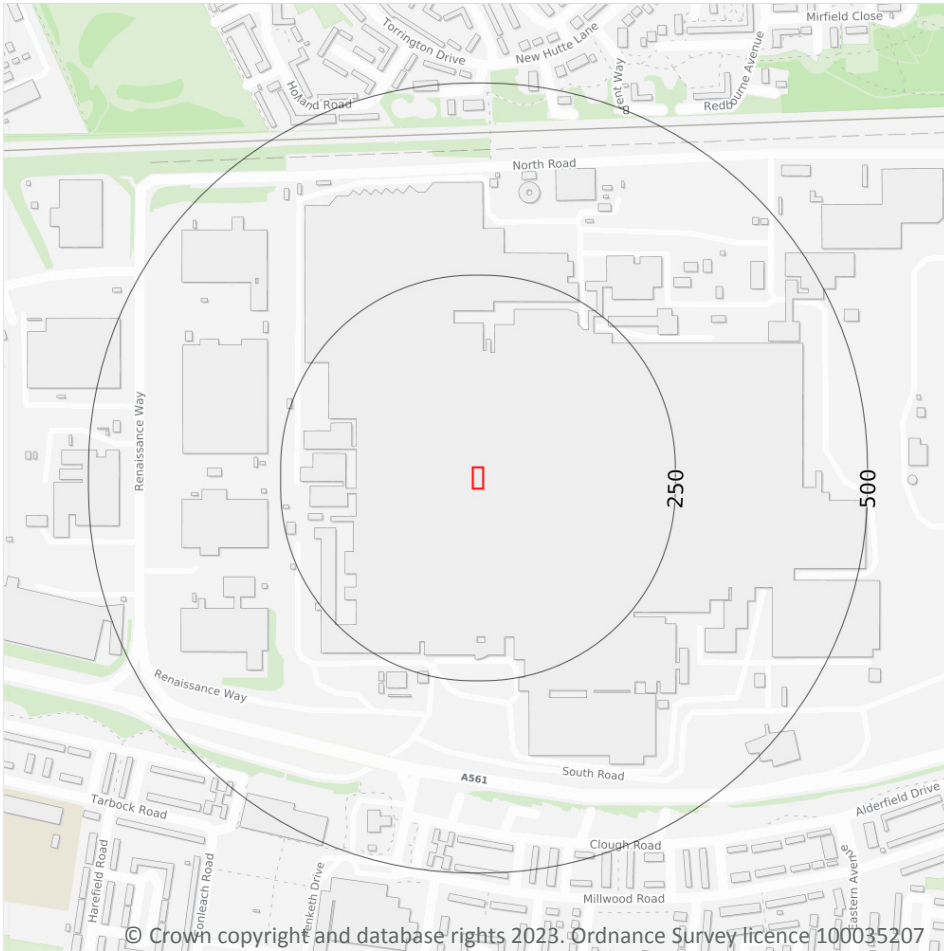
5.5 Groundwater vulnerability- local information

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

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

54

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 52 >](#)

ID	Location	Details	
-	892m NW	Status: Historical Licence No: 2569030023 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: B/HOLE 3 AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 18/03/2015 Version End Date: -
-	892m NW	Status: Active Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: B/HOLE 3 AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	892m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	892m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: "B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -



ID	Location	Details	
-	892m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	892m NW	Status: Historical Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	892m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	892m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE 'C' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -



ID	Location	Details	
-	892m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE 3 AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	892m NW	Status: Active Licence No: 2569030023 Details: Evaporative Cooling Direct Source: Ground Water - North West Region Point: B/HOLE 3 AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	892m NW	Status: Active Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE 3 AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343680 Northing: 384570	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -

ID	Location	Details	
-	938m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: "B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -

ID	Location	Details	
-	938m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE 'B' AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	938m NW	Status: Historical Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343570 Northing: 384480	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -

ID	Location	Details	
-	997m NW	Status: Active Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343506 Northing: 384484	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	997m NW	Status: Active Licence No: 2569030023 Details: Evaporative Cooling Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343506 Northing: 384484	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	997m NW	Status: Active Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: TriRx Speke Ltd Easting: 343506 Northing: 384484	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	997m NW	Status: Historical Licence No: 2569030023 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: B/HOLE2 AT LH'S PREMISES, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343506 Northing: 384484	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 18/03/2015 Version End Date: -

ID	Location	Details	
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE A AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1042m NW	Status: Active Licence No: 2569030023 Details: Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	1042m NW	Status: Active Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	1042m NW	Status: Active Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -

ID	Location	Details	
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: "B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -

ID	Location	Details	
-	1042m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: B/HOLE 'A' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE A AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE A AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -

ID	Location	Details	
-	1042m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569030023 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343600 Northing: 384710	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 18/03/2015 Version End Date: -
-	1138m NW	Status: Active Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE 4 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	1138m NW	Status: Active Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE 4 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -

ID	Location	Details	
-	1138m NW	Status: Active Licence No: 2569030023 Details: Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 4 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: TriRx Speke Ltd Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: NPS/WR/037405 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 107 Version Start Date: 16/03/2022 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: "B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL" Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/1999 Version End Date: -

ID	Location	Details	
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Process water Direct Source: Ground Water - North West Region Point: B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE 'D' AT LH'S PREMESIS, FLEMING RD, SPEKE, L'POOL Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE D AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -

ID	Location	Details	
-	1138m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE D AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE D AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE 4 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 45000 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2004 Version End Date: -
-	1138m NW	Status: Historical Licence No: 2569030023 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 4 AT LH S PREMISES FLEMING ROAD SPEKE Data Type: Point Name: ELI LILLY & CO LTD Easting: 343450 Northing: 384670	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 4500 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 18/03/2015 Version End Date: -



ID	Location	Details	
-	1861m NE	Status: Historical Licence No: 2569028025 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT EVERTON FOOTBALL CLUB FINCH LANE HALEWOOD Data Type: Point Name: THE EVERTON FOOTBALL CLUB COMPANY LIMITED Easting: 345890 Northing: 385180	Annual Volume (m ³): 49142 Max Daily Volume (m ³): 491.42 Original Application No: - Original Start Date: 26/05/2007 Expiry Date: 01/06/2012 Issue No: 1 Version Start Date: 26/05/2007 Version End Date: -
-	1862m NE	Status: Active Licence No: NW/069/0028/025 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT EVERTON FOOTBALL CLUB FINCH LANE HALEWOOD Data Type: Point Name: THE EVERTON FOOTBALL CLUB COMPANY LIMITED Easting: 345886 Northing: 385187	Annual Volume (m ³): 35000 Max Daily Volume (m ³): 492 Original Application No: NPS/WR/008532 Original Start Date: 02/06/2012 Expiry Date: 31/03/2028 Issue No: 100 Version Start Date: 02/06/2012 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

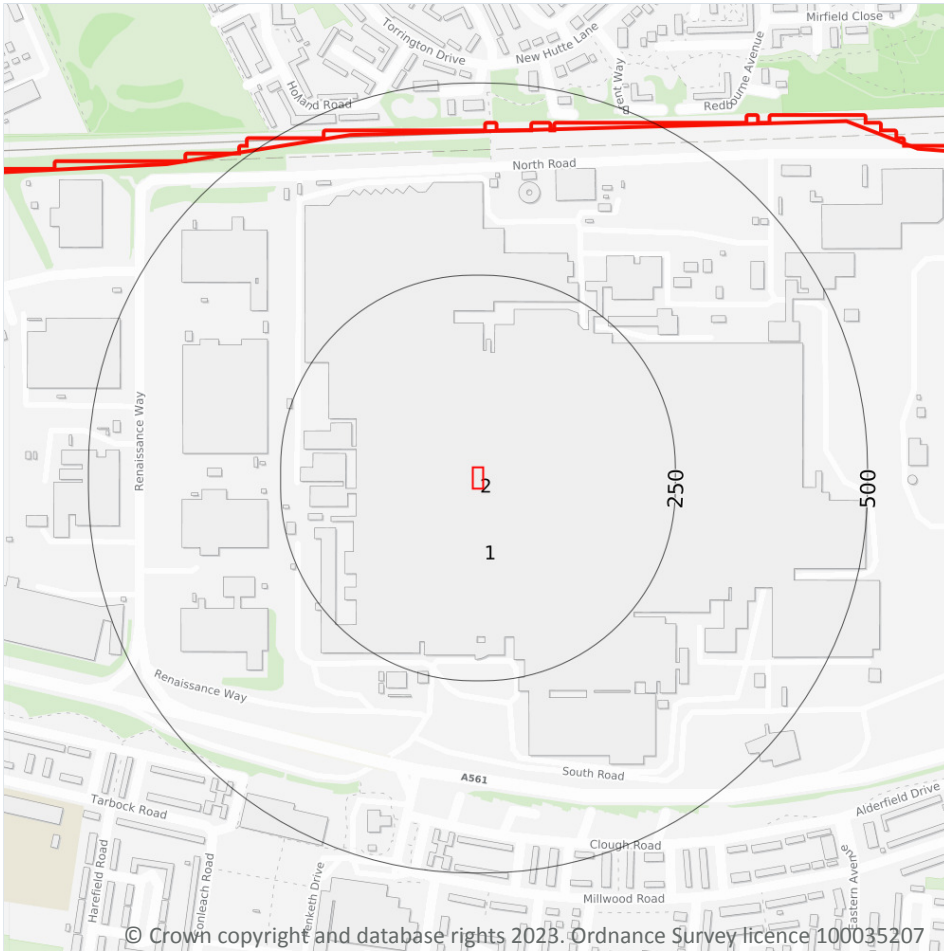
Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 68 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	167	Ditton	Lower Mersey

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

0

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 68 >](#)



ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers	GB41201G101700 ↗	Poor	Poor	Poor	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

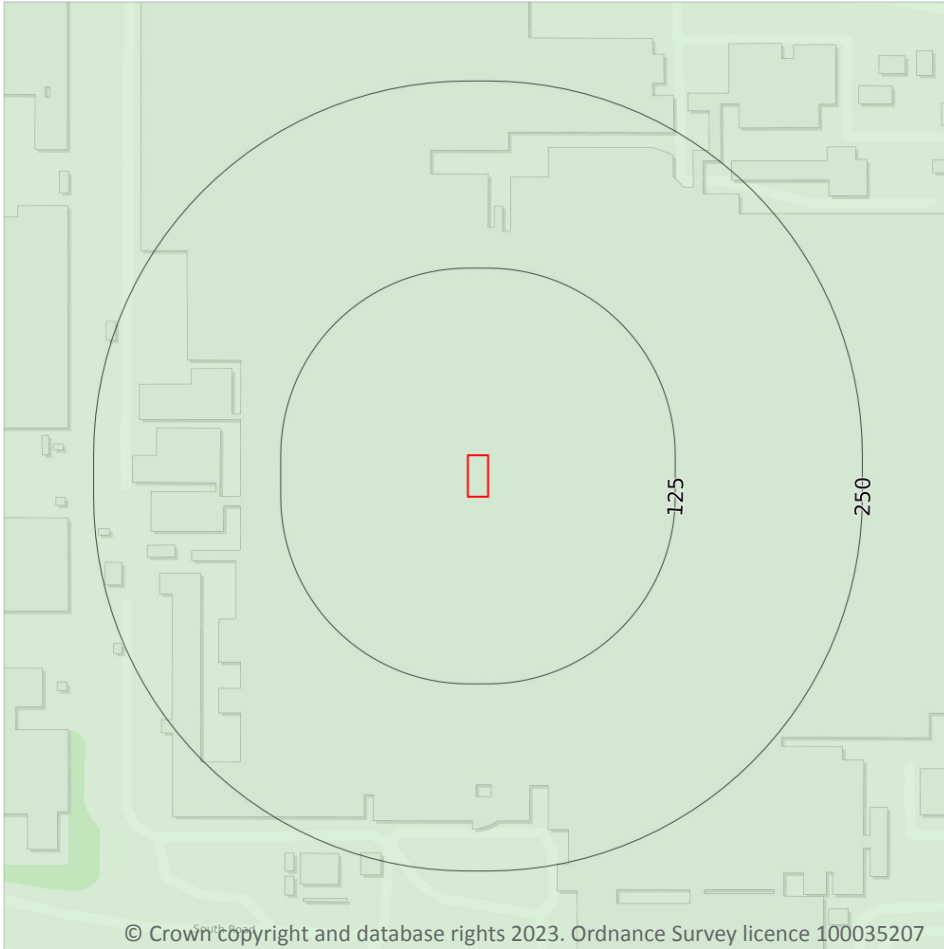
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

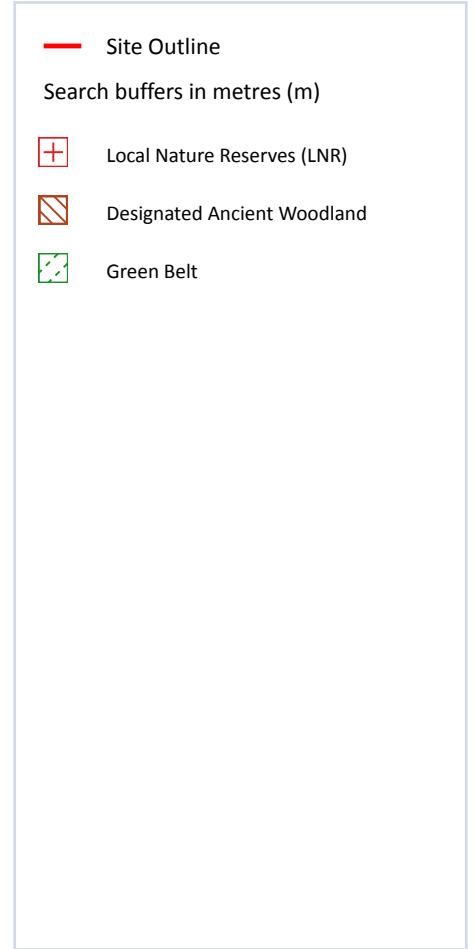
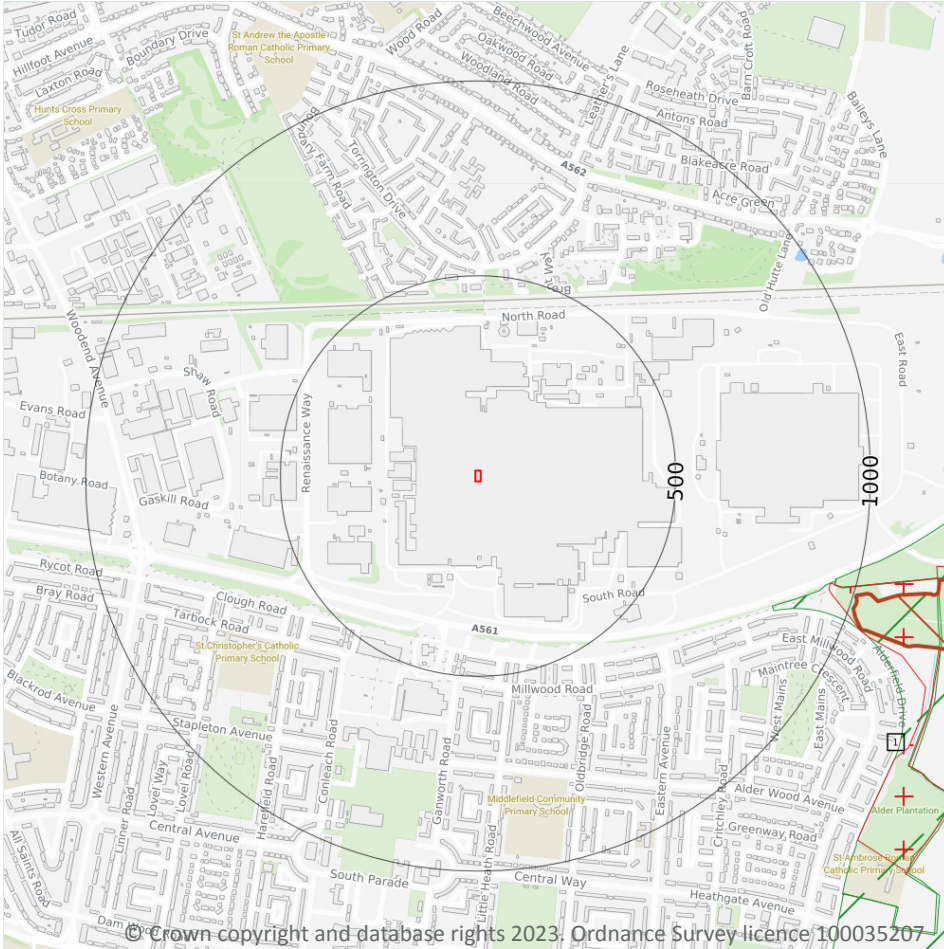
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 75 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Data source
A	935m E	Millwood & Alder Wood	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Woodland Type
A	1008m E	Mill Wood	Ancient & Semi-Natural Woodland
-	1417m E	Hop Yard Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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



10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

5

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Local Authority name
1	814m SE	Merseyside and Greater Manchester	Liverpool
2	946m E	Merseyside and Greater Manchester	Knowsley
3	1200m E	Merseyside and Greater Manchester	Halton
-	1457m S	Merseyside and Greater Manchester	Liverpool
-	1931m S	Merseyside and Greater Manchester	Liverpool

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

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

Location	Name	Type	NVZ ID	Status
456m N	Ditton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	640	Existing

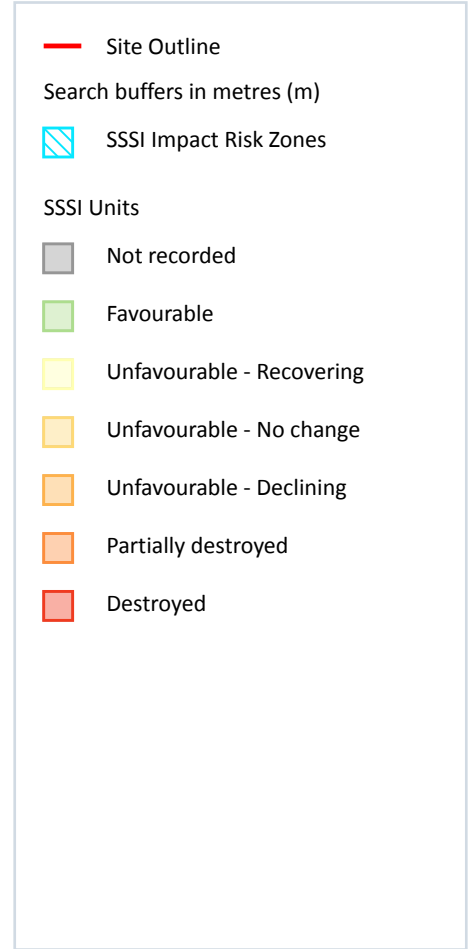
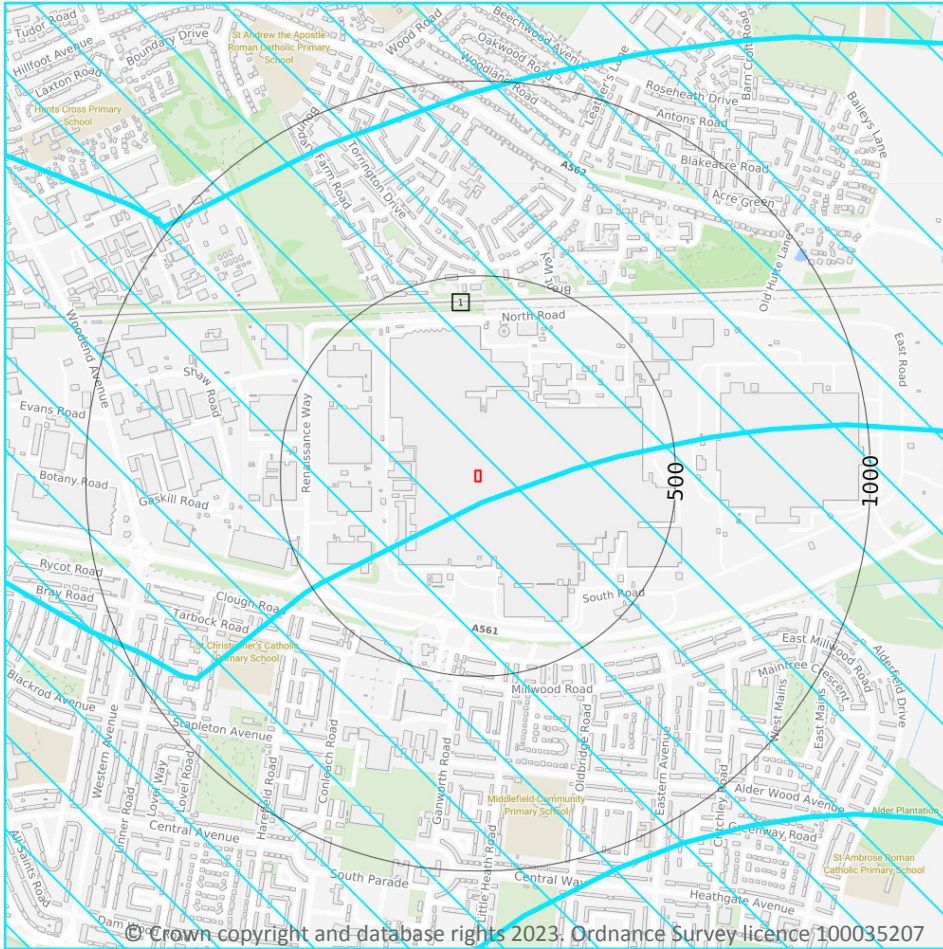


Location	Name	Type	NVZ ID	Status
534m NW	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	640	Existing
1938m N	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	640	Existing
1962m N	Dittton Brook (Halewood to Mersey Estuary) NVZ	Surface Water	640	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 82 >](#)

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines</p> <p>Minerals, Oil and Gas - Planning applications for quarries: new proposals or extensions, outside or extending outside existing settlements/urban areas affecting greenspace, farmland or semi natural habitats. Oil & gas exploration/extraction</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t)</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Notes: New residential developments in this area should consider recreational disturbance impacts on the coastal designated sites. Please consider this issue in the HRA screening.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

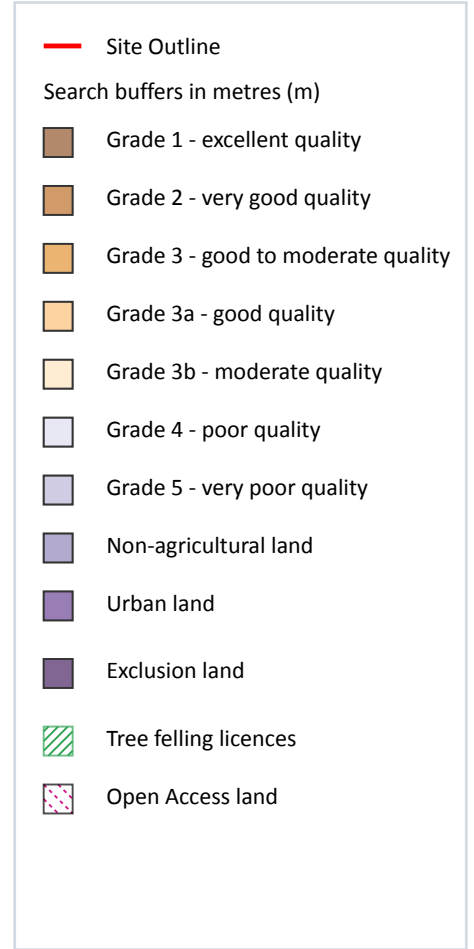
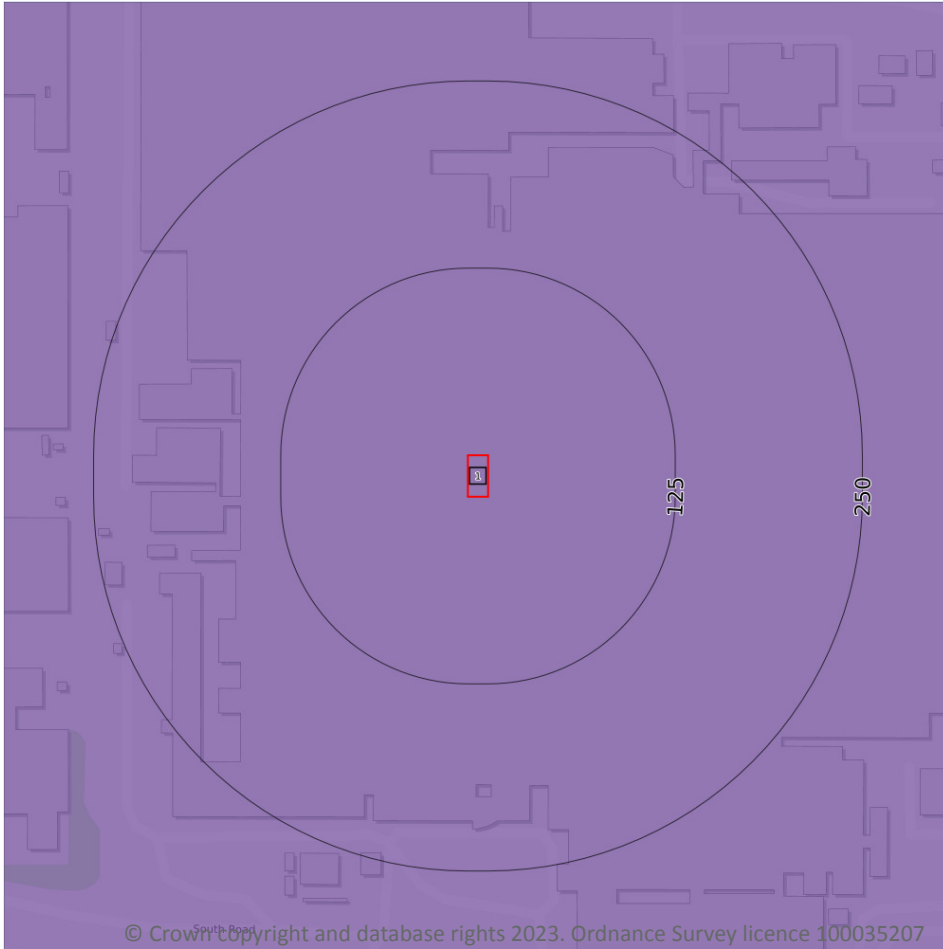
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 86](#) >

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0
---------------------	---

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0
---------------------	---

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0
---------------------	---

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

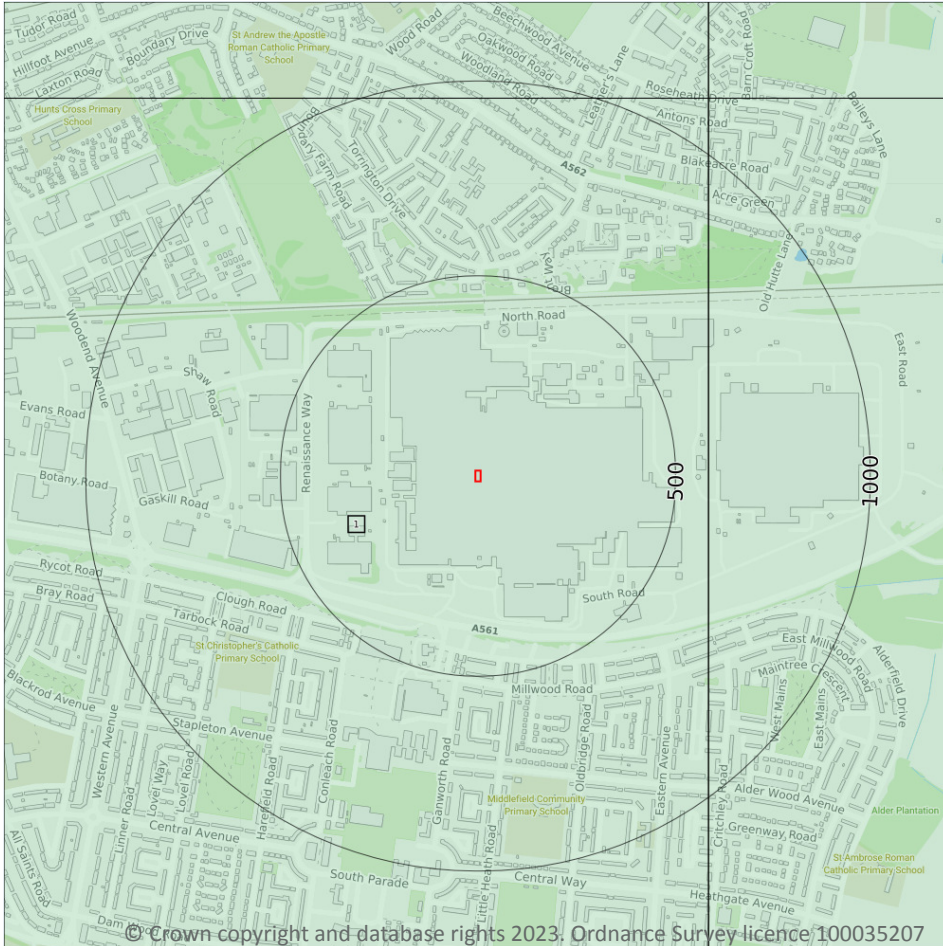
Records within 250m	0
---------------------	---

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SJ48SW

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

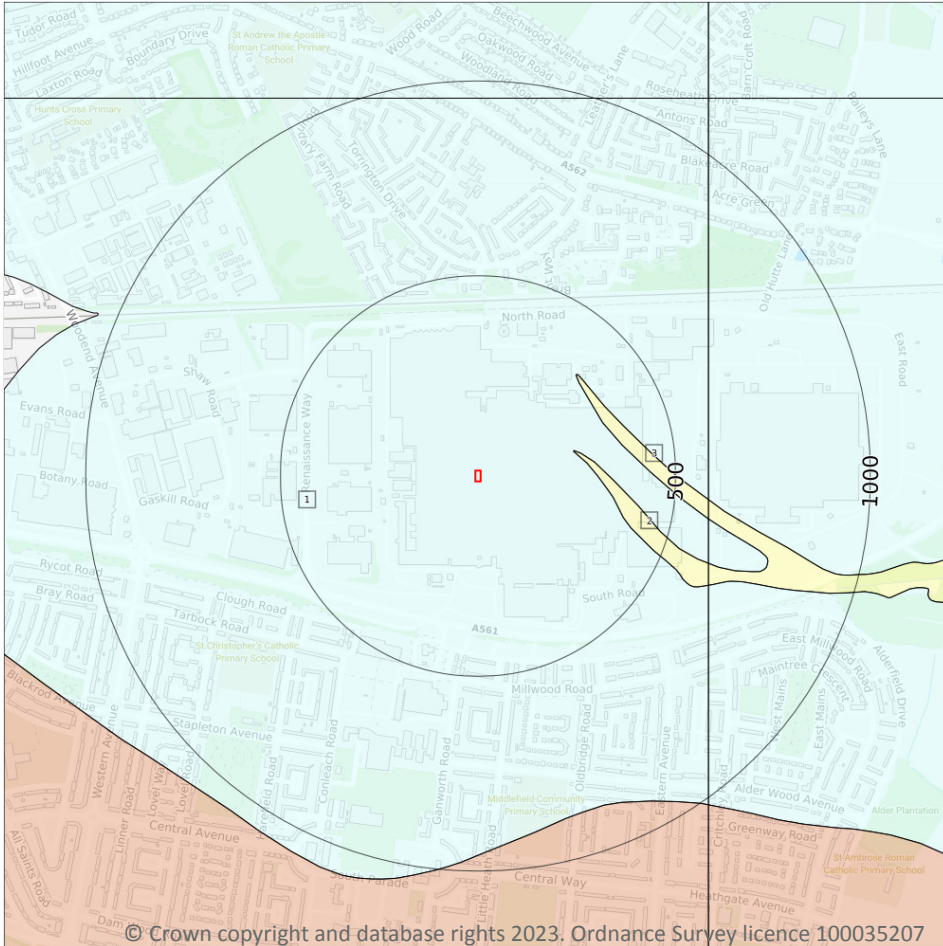
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

3

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 91](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	244m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	332m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

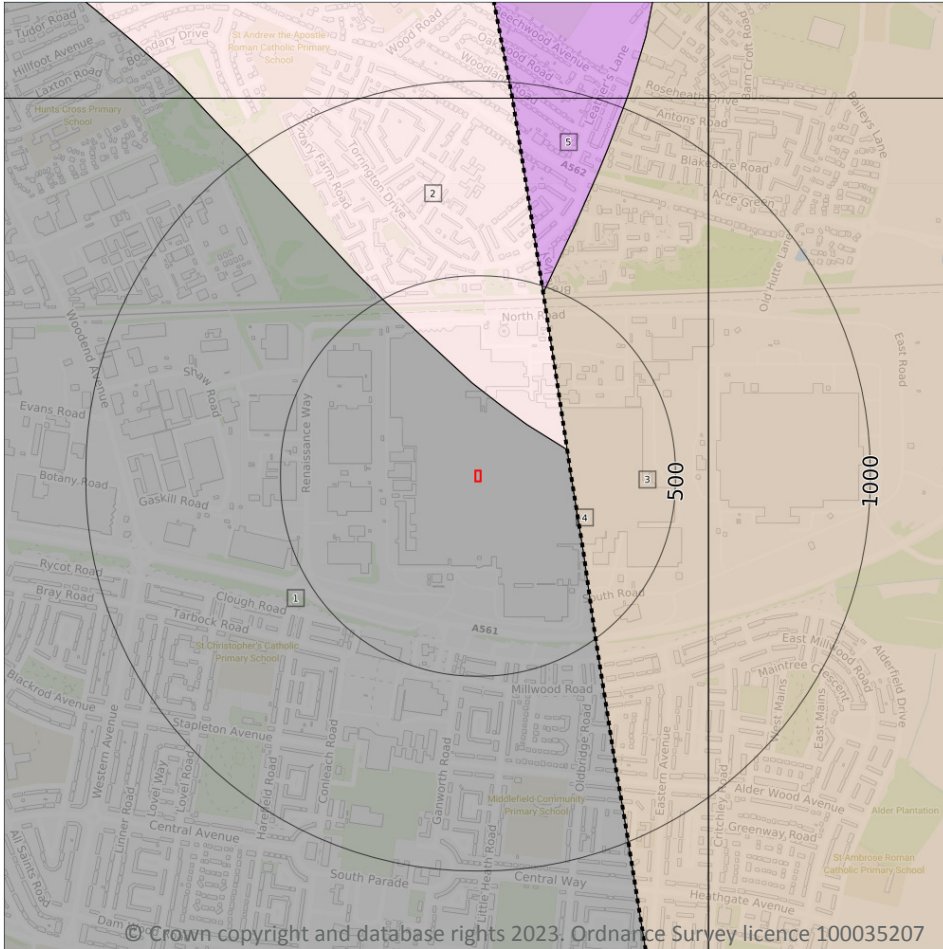
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- - - - Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

4

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 93](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
2	166m NE	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch
3	228m E	KNSF-SDST	Kinnerton Sandstone Formation - Sandstone	Early Triassic Epoch



ID	Location	LEX Code	Description	Rock age
5	484m N	ETM-MDSC	Etruria Formation - Mudstone, Sandstone And Conglomerate	Westphalian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	1
----------------------------	----------

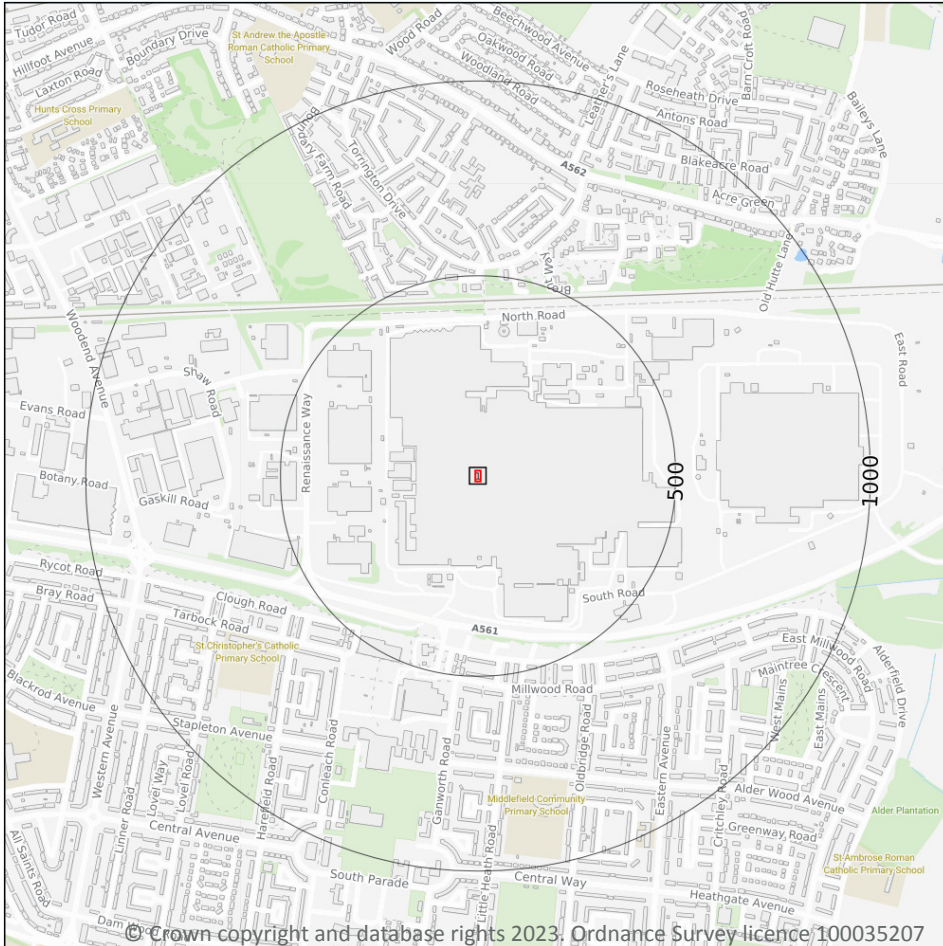
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 93 >](#)

ID	Location	Category	Description
4	228m E	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

○ 500

○ 1000

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 95](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW097_runcorn_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

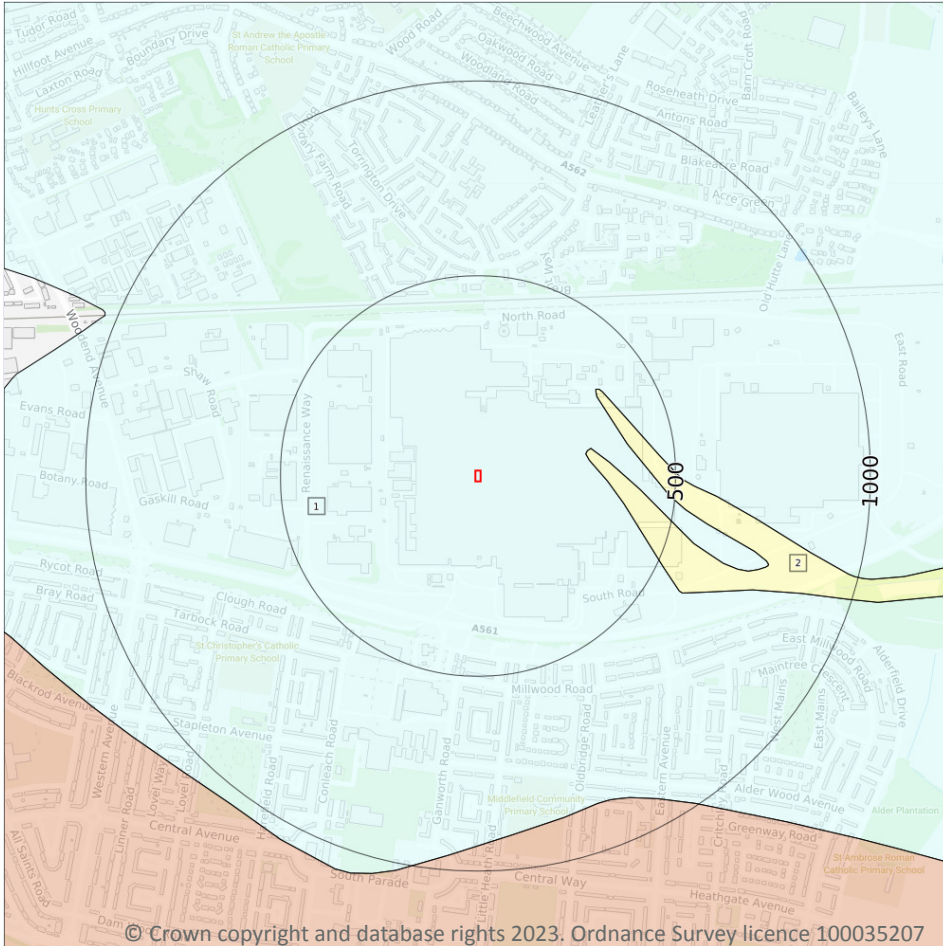
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 97](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	273m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m **1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

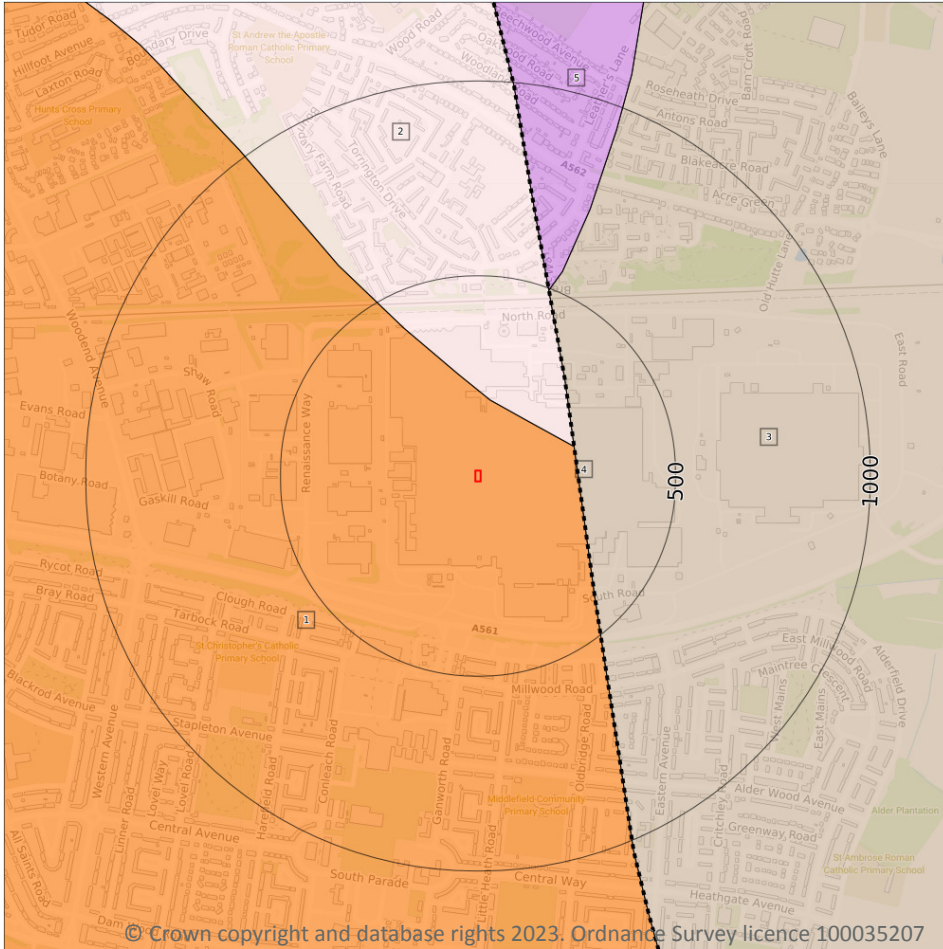
15.7 Landslip permeability (50k)

Records within 50m **0**

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 99](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
2	170m NE	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-
3	246m E	KNSF-SDST	KINNERTON SANDSTONE FORMATION - SANDSTONE	-

ID	Location	LEX Code	Description	Rock age
5	495m N	ETM-MDSC	ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1
----------------------------	----------

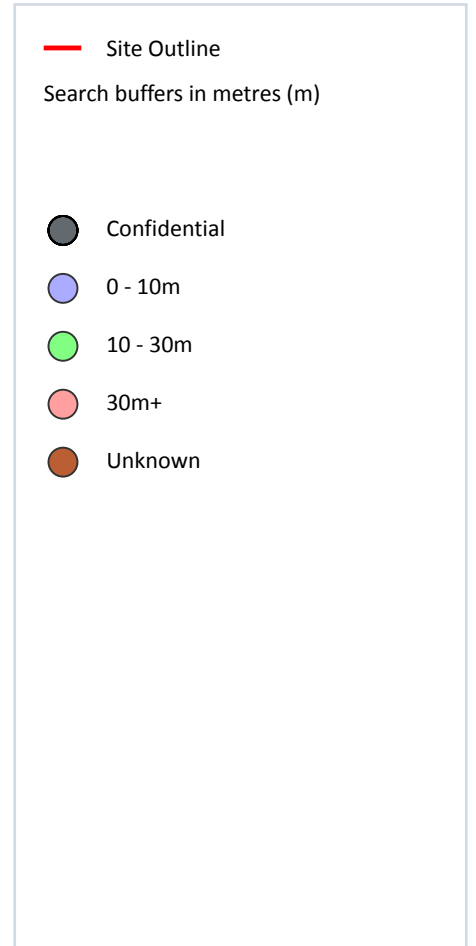
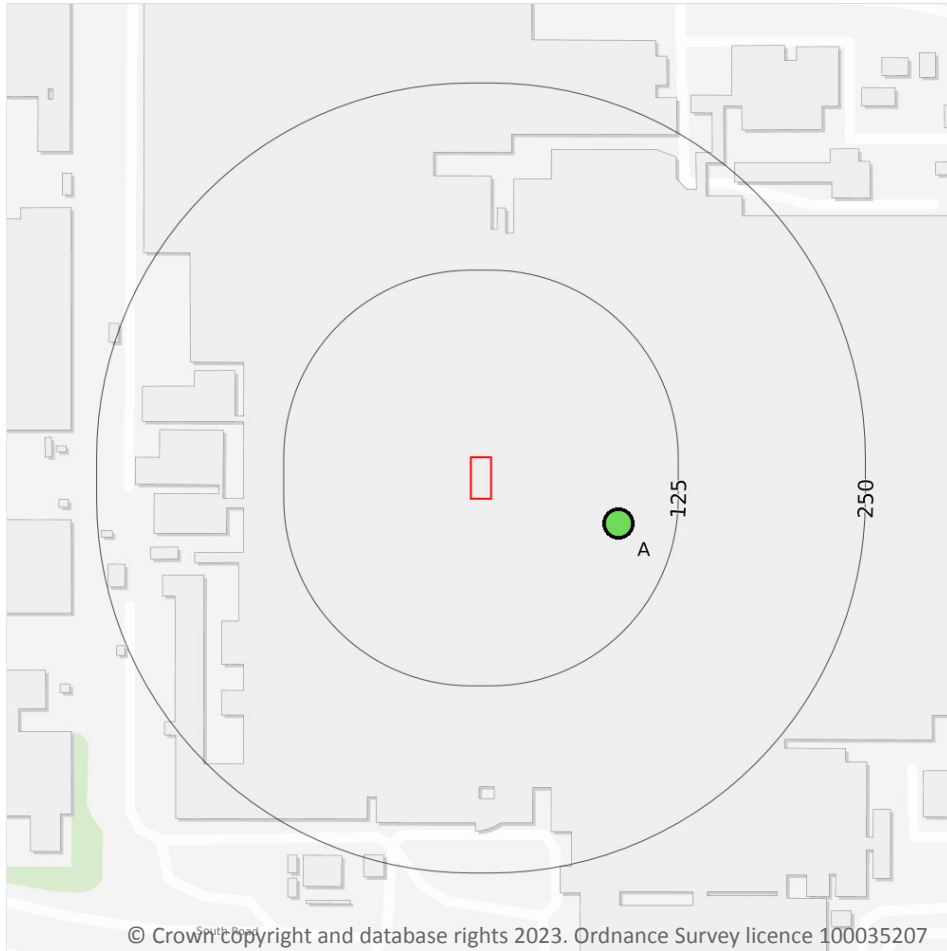
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 99](#) >

ID	Location	Category	Description
4	246m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m

25

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 101](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	87m E	344500 384000	FORD HALEWOOD S I, 19	15.24	N	1137043 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 3	-1.0	N	1137027 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	87m E	344500 384000	FORD HALEWOOD S.I. HOLES (24)	-1.0	N	164869 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 9	26.52	N	1137033 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 13	-1.0	N	1137037 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 17	15.39	N	1137041 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 22	-1.0	N	1137046 ↗
A	87m E	344500 384000	FORD HALESWOOD S I, 23	-1.0	N	1137047 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 2	24.87	N	1137026 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 10	-1.0	N	1137034 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 1	36.35	N	1137025 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 16	-1.0	N	1137040 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 21	15.39	N	1137045 ↗
A	87m E	344500 384000	FORD HALESWOOD S I, 24	24.38	N	1137048 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 20	-1.0	N	1137044 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 8	-1.0	N	1137032 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 12	-1.0	N	1137036 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 6	-1.0	N	1137030 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 7	-1.0	N	1137031 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 18	15.54	N	1137042 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 5	-1.0	N	1137029 ↗

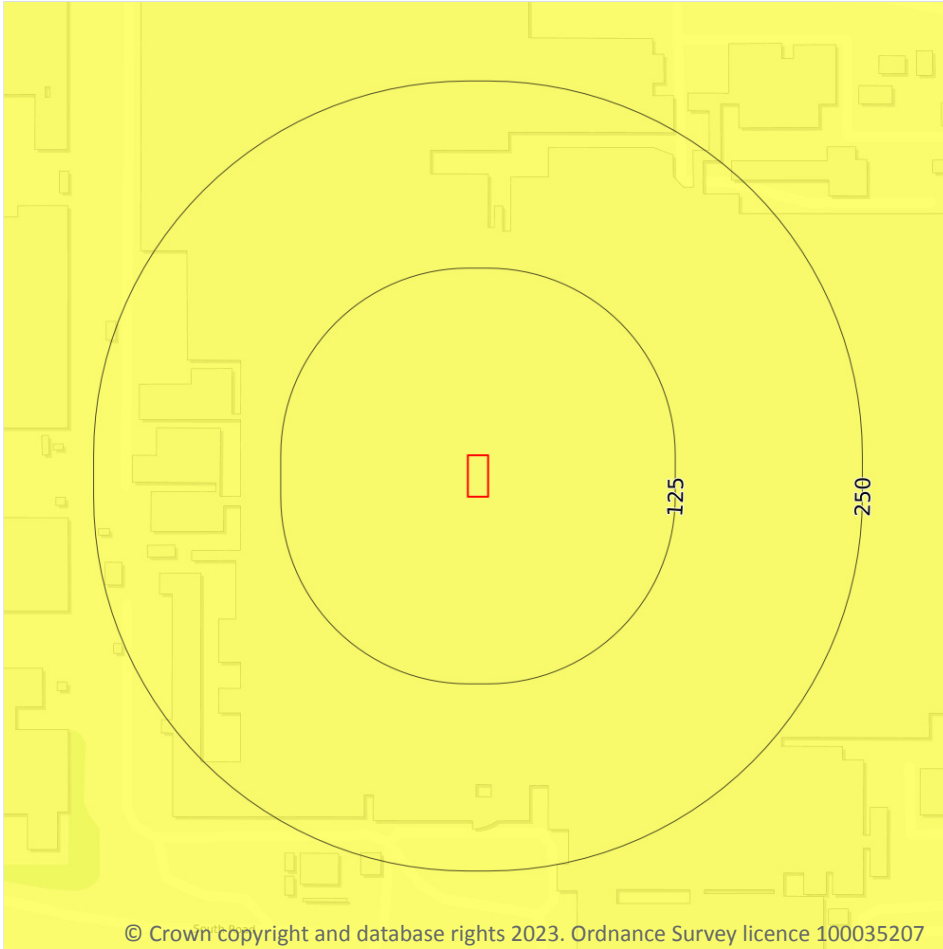


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	87m E	344500 384000	FORD HALEWOOD S I, 4	-1.0	N	1137028 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 14	-1.0	N	1137038 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 15	-1.0	N	1137039 ↗
A	87m E	344500 384000	FORD HALEWOOD S I, 11	-1.0	N	1137035 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

17.1 Shrink swell clays

Records within 50m

1

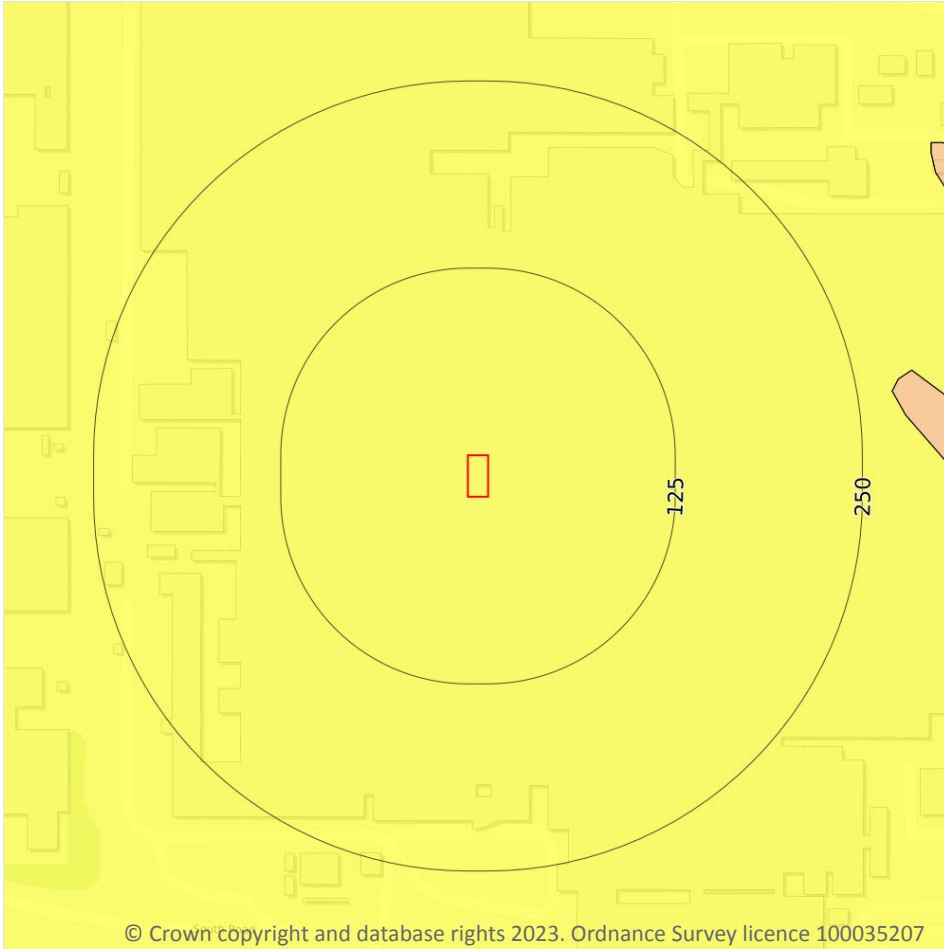
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 104 >](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

17.2 Running sands

Records within 50m

1

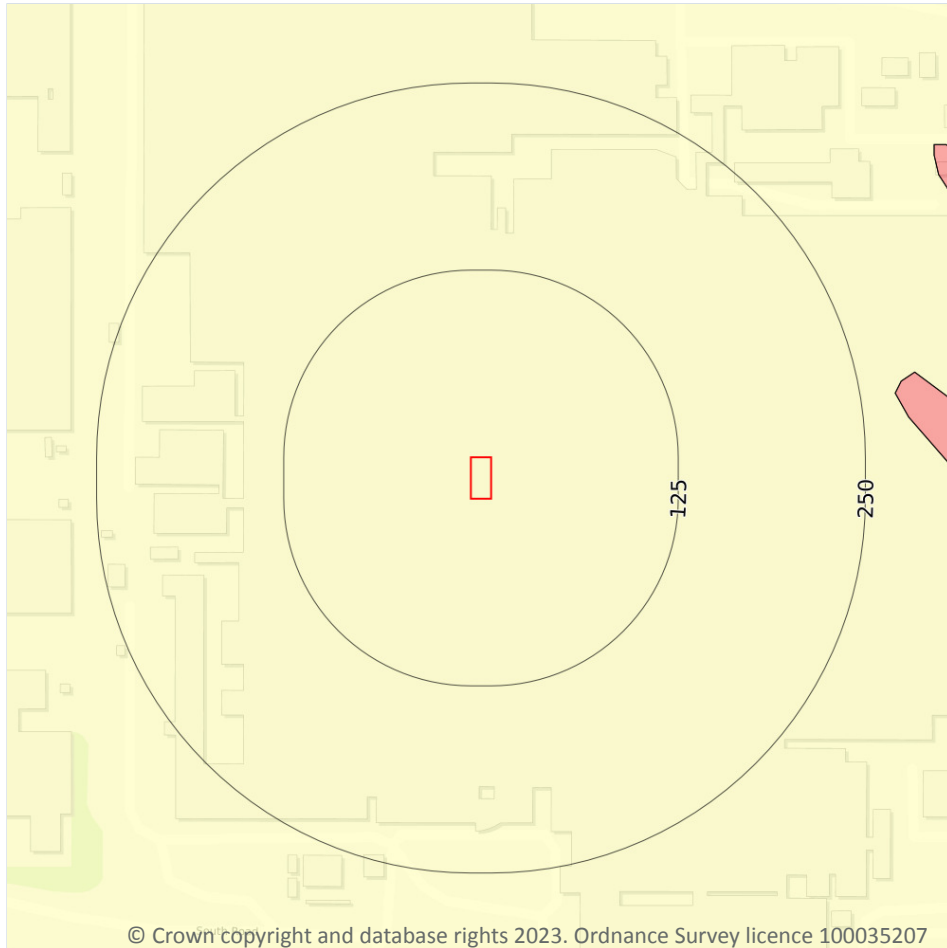
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 105 >](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

17.3 Compressible deposits

Records within 50m

1

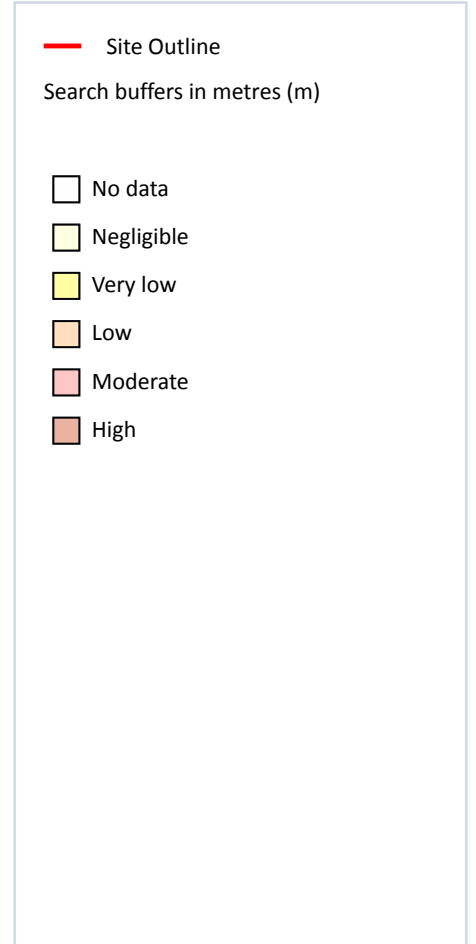
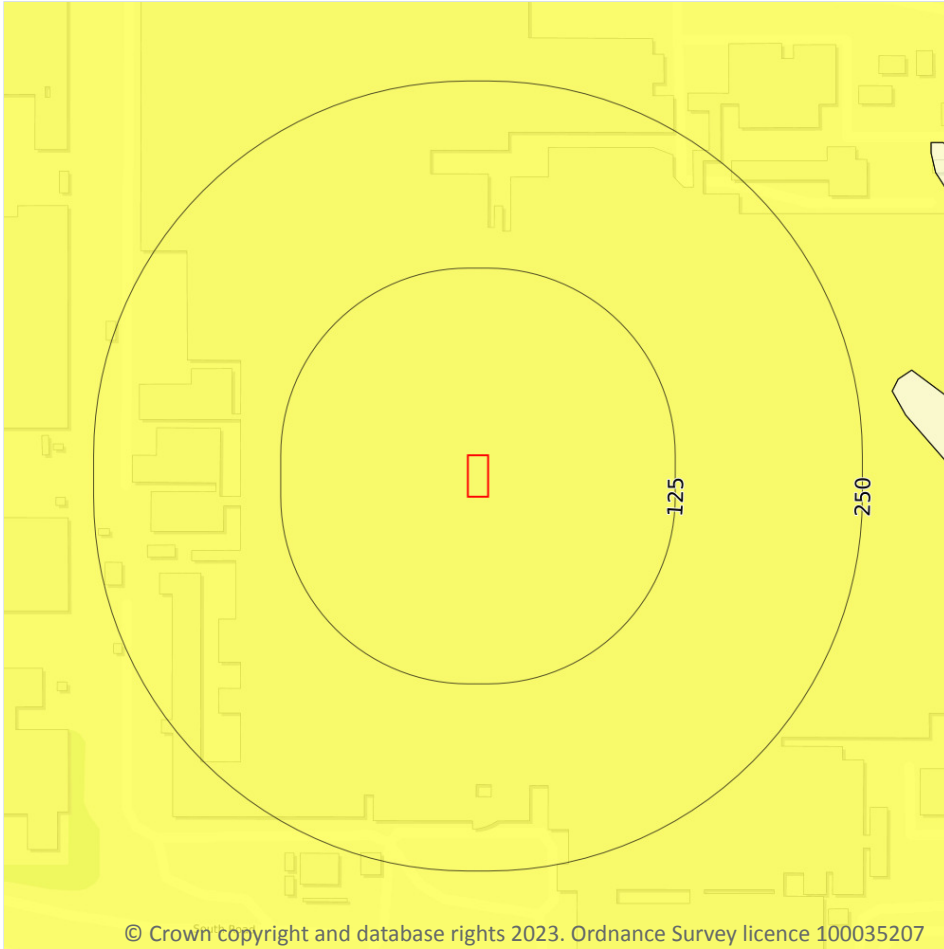
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 106 >](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

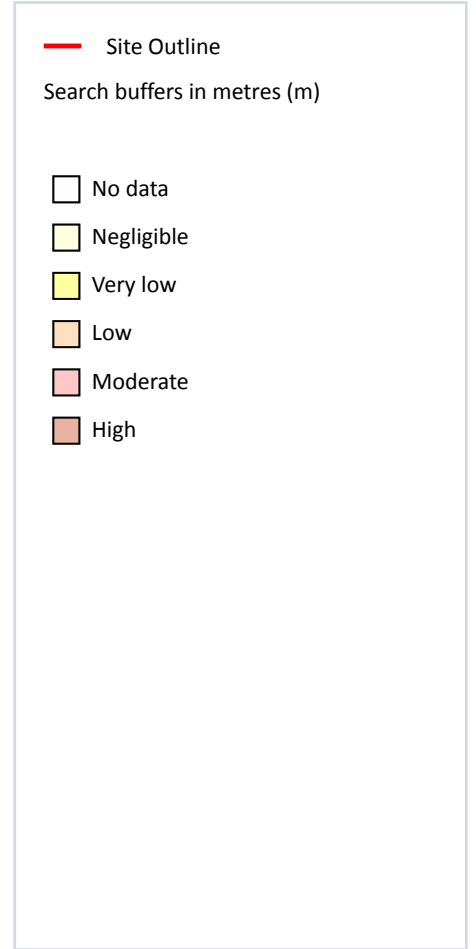
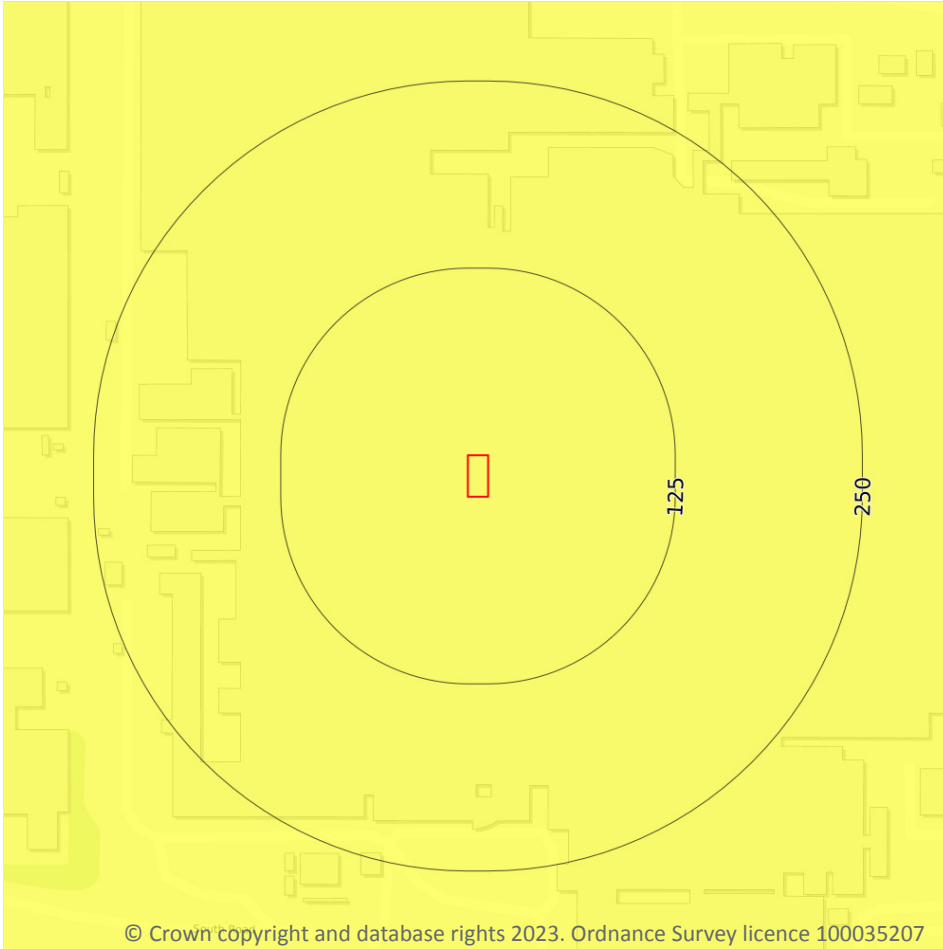
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 107 >](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

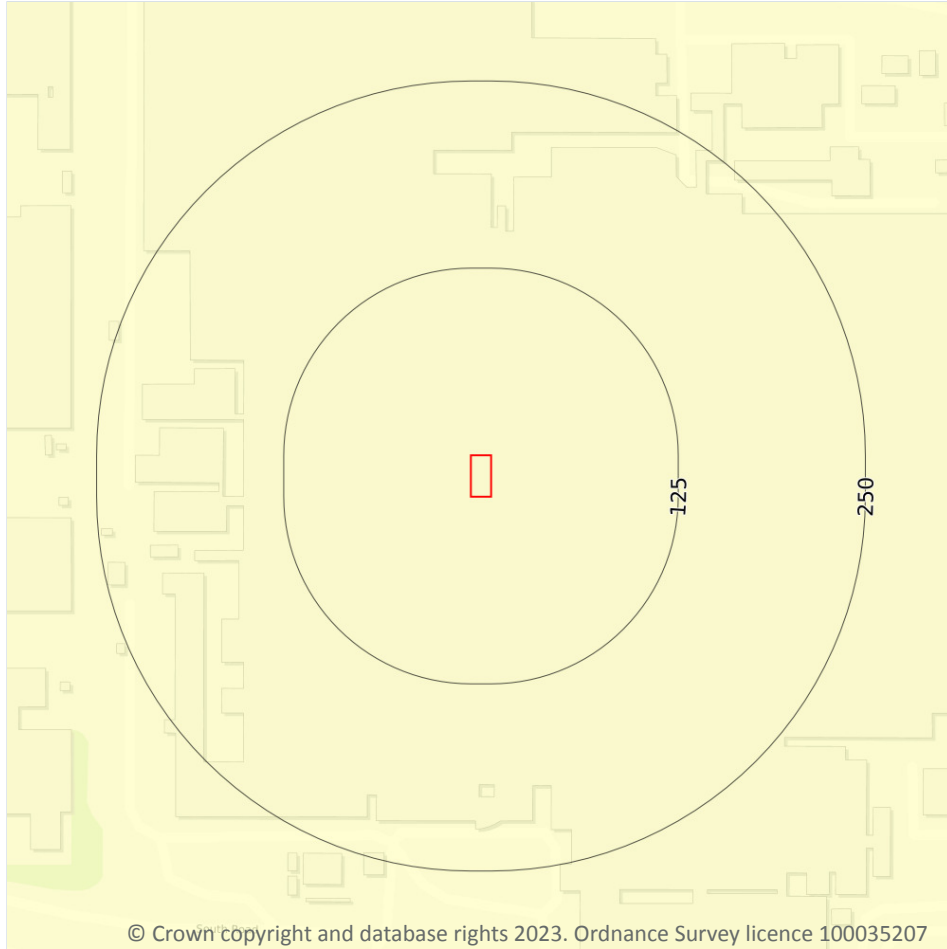
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 108](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

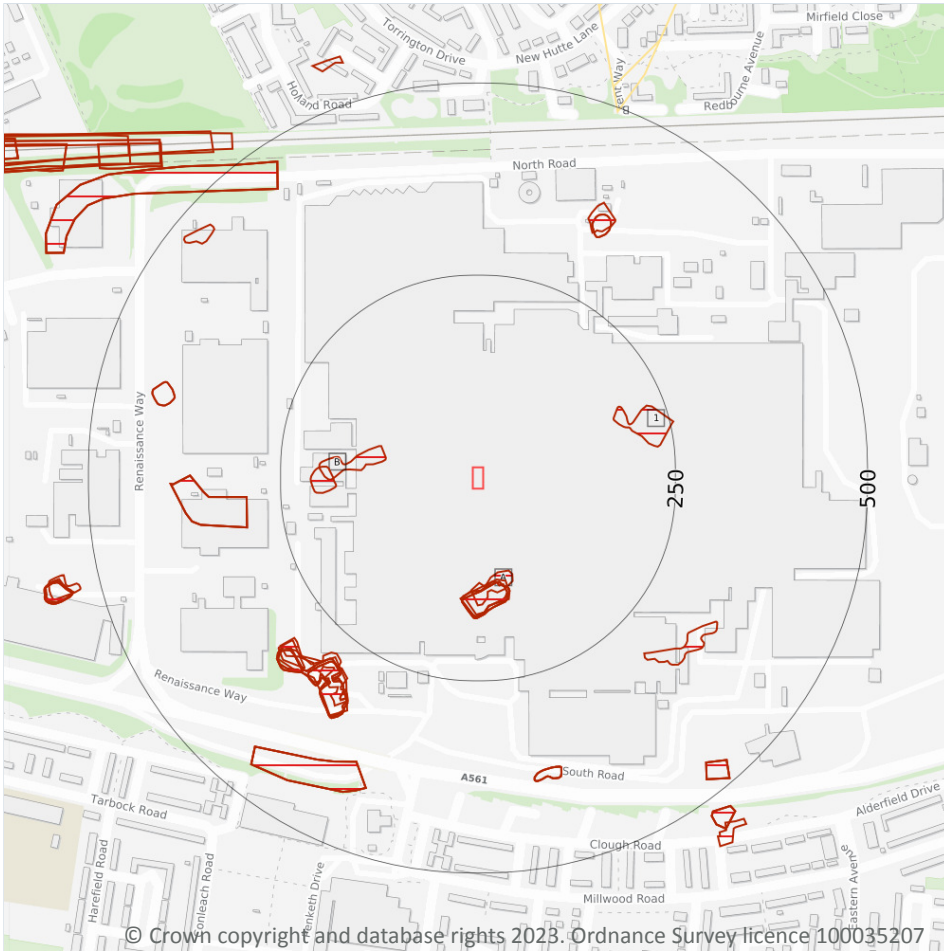
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 109 >](#)

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m**10**

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

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

ID	Location	Land Use	Year of mapping	Mapping scale
A	111m S	Ponds	1956	1:10560
B	114m W	Ponds	1851	1:10560
A	120m S	Ponds	1891	1:10560
A	122m S	Ponds	1925	1:10560
A	122m S	Ponds	1925	1:10560
A	123m S	Ponds	1938	1:10560
A	123m S	Ponds	1925	1:10560
A	123m S	Ponds	1904	1:10560
B	178m W	Pond	1904	1:10560
1	181m NE	Pond	1851	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m**0**

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m**0**

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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

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

ID	Location	Name	Commodity	Class	Likelihood
4	495m N	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	960m N	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.



18.12 Coal mining

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

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

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

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



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

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

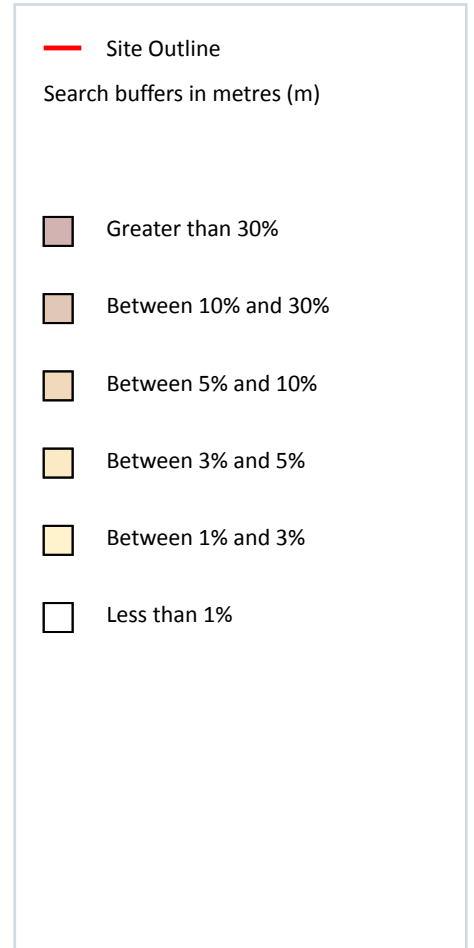
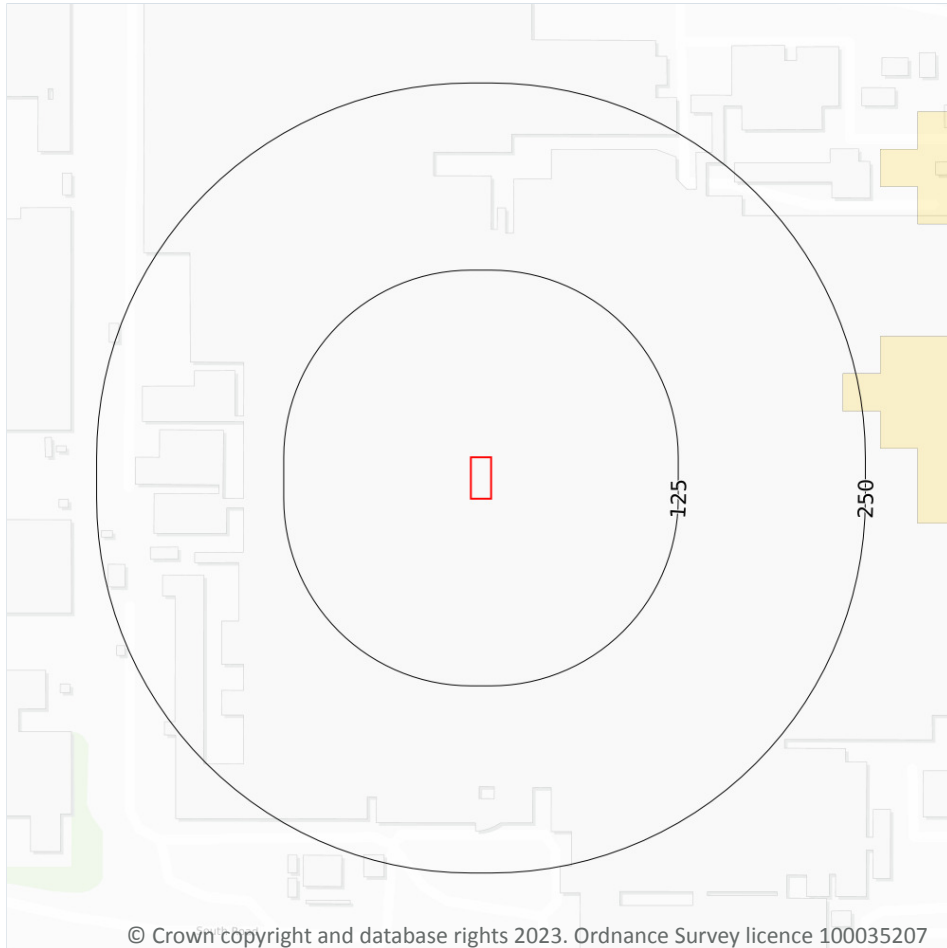
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



© Crown copyright and database rights 2023. Ordnance Survey licence 100035207

20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 118 >](#)

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

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
16m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
16m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

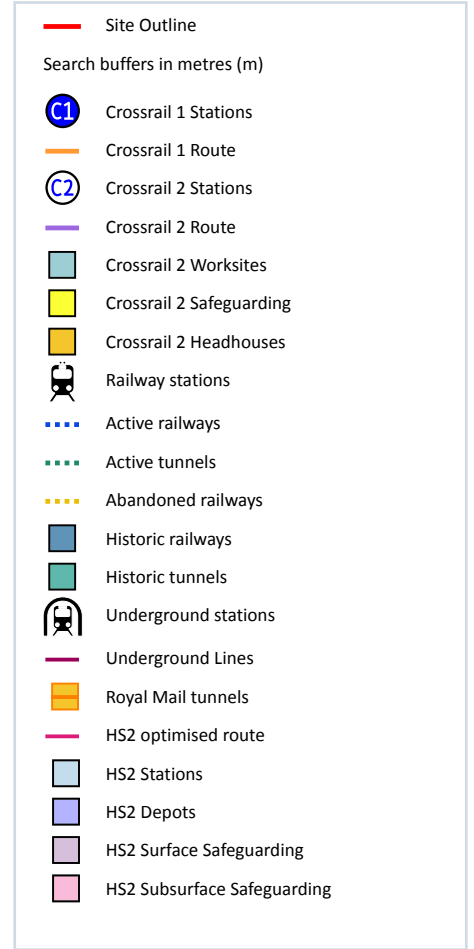
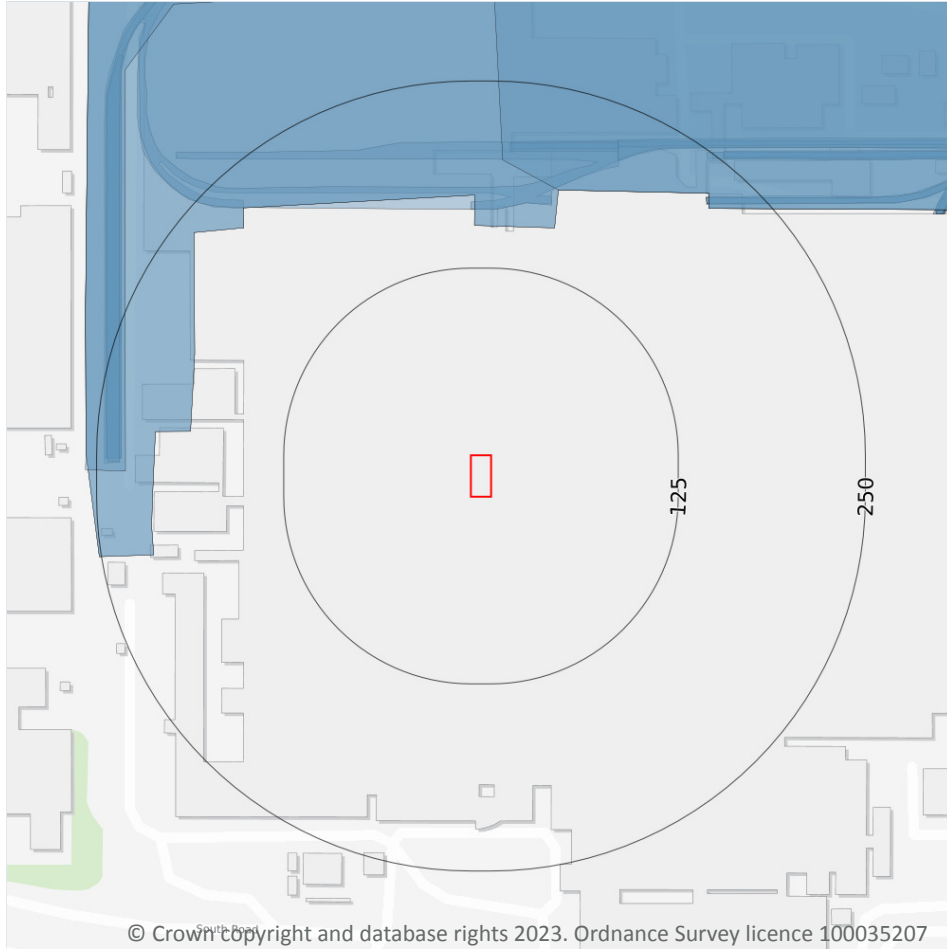
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

12

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

Features are displayed on the Railway infrastructure and projects map on [page 121 >](#)

Location	Land Use	Year of mapping	Mapping scale
153m N	Railway Sidings	1966	10560
153m N	Railway Sidings	1980	10000
164m N	Railway Sidings	1967	2500
164m N	Railway Sidings	1965	1250
183m N	Railway Sidings	1991	10000
203m N	Railway Sidings	1989	1250
205m N	Railway Sidings	1993	1250
214m NE	Railway Sidings	1965	1250
214m NE	Railway Sidings	1974	1250
223m NE	Railway Sidings	1993	1250
235m W	Railway Sidings	1989	1250
235m W	Railway Sidings	1993	1250

This data is sourced from Ordnance Survey/Groundsure.



22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.



22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.





Appendix B Groundsure Historic Maps (large scale)

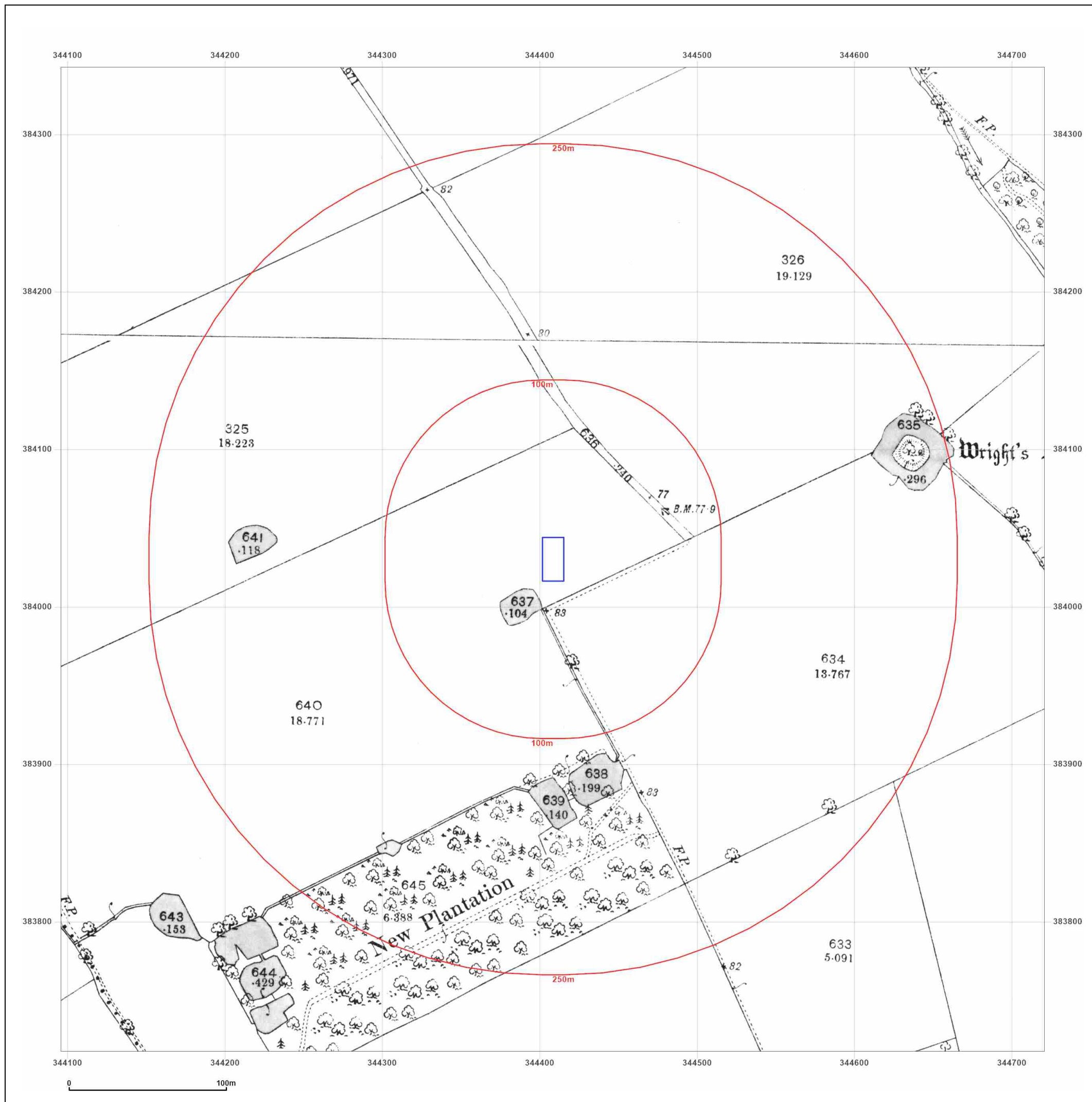
EMS_907867_1158020

Halewood Manufacturing Plant – Environmental Permit Variation

Jaguar Land Rover Limited

SLR Project No.: 416.064966.00001

29 January 2024



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

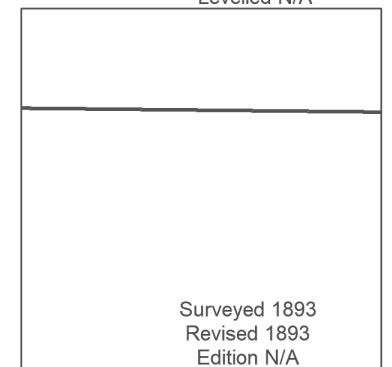
Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

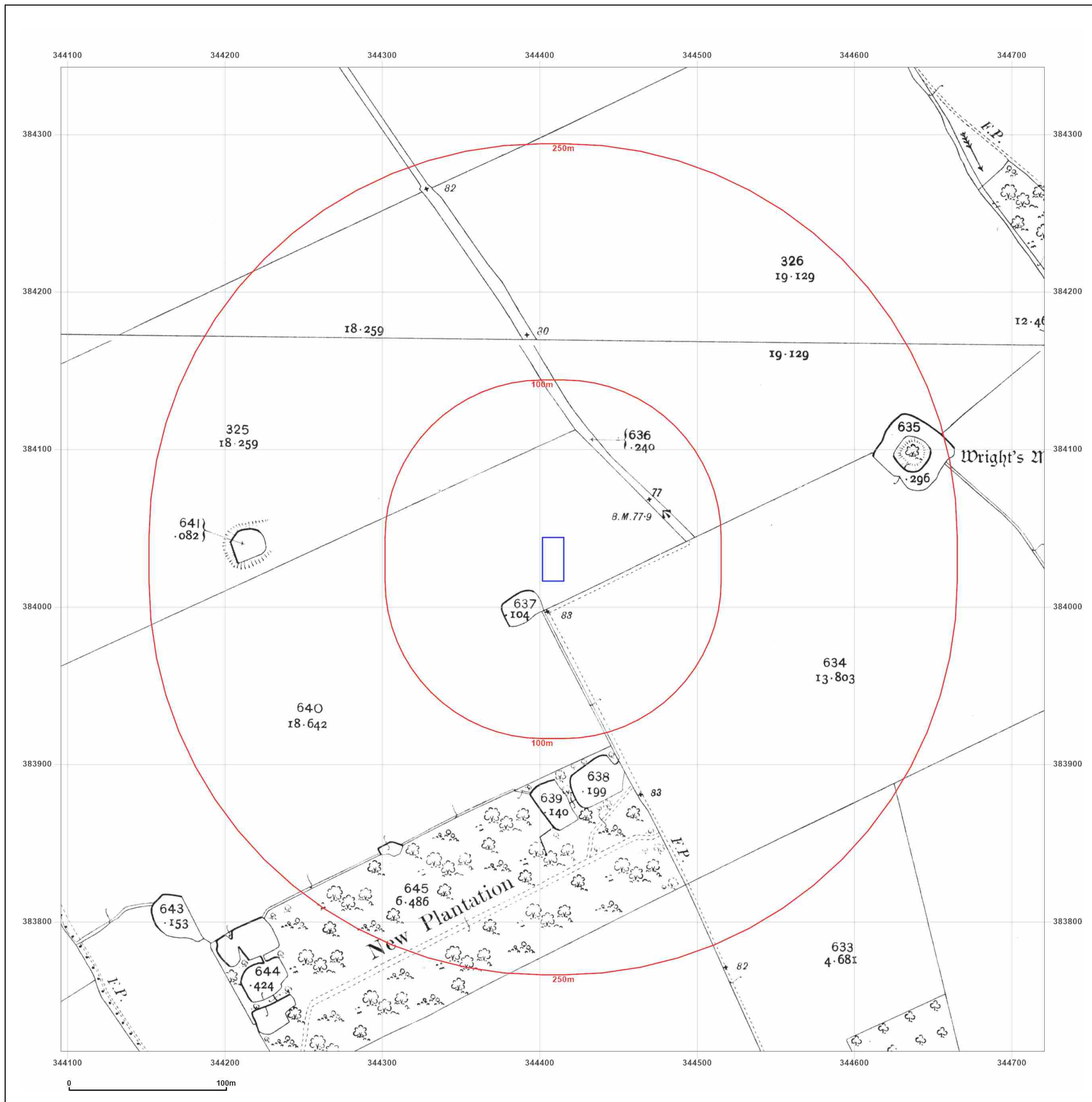


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



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

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



Produced by
 Groundsure Insights
www.groundsure.com

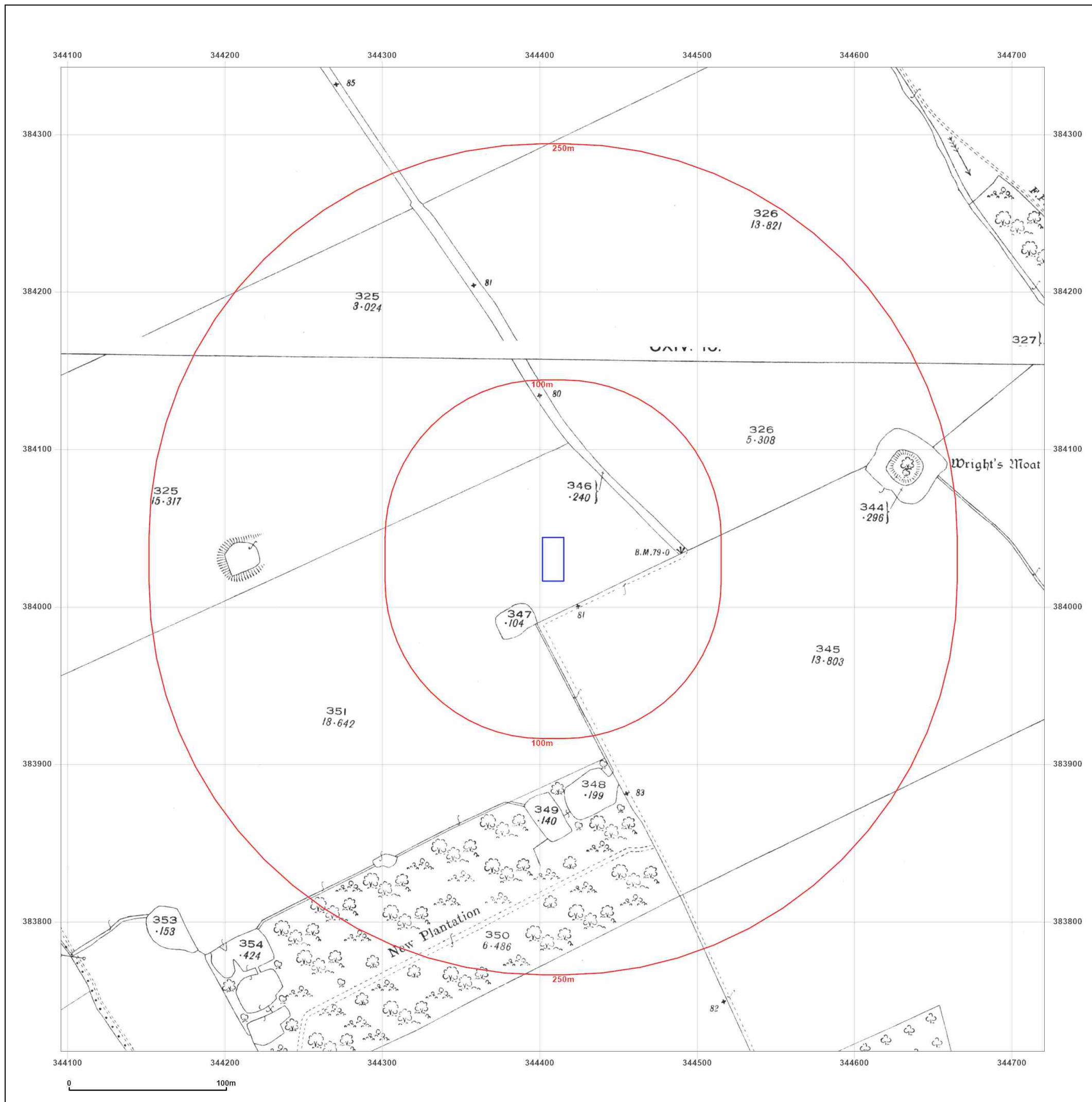


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1927

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1927
 Revised 1927
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1927
 Revised 1927
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

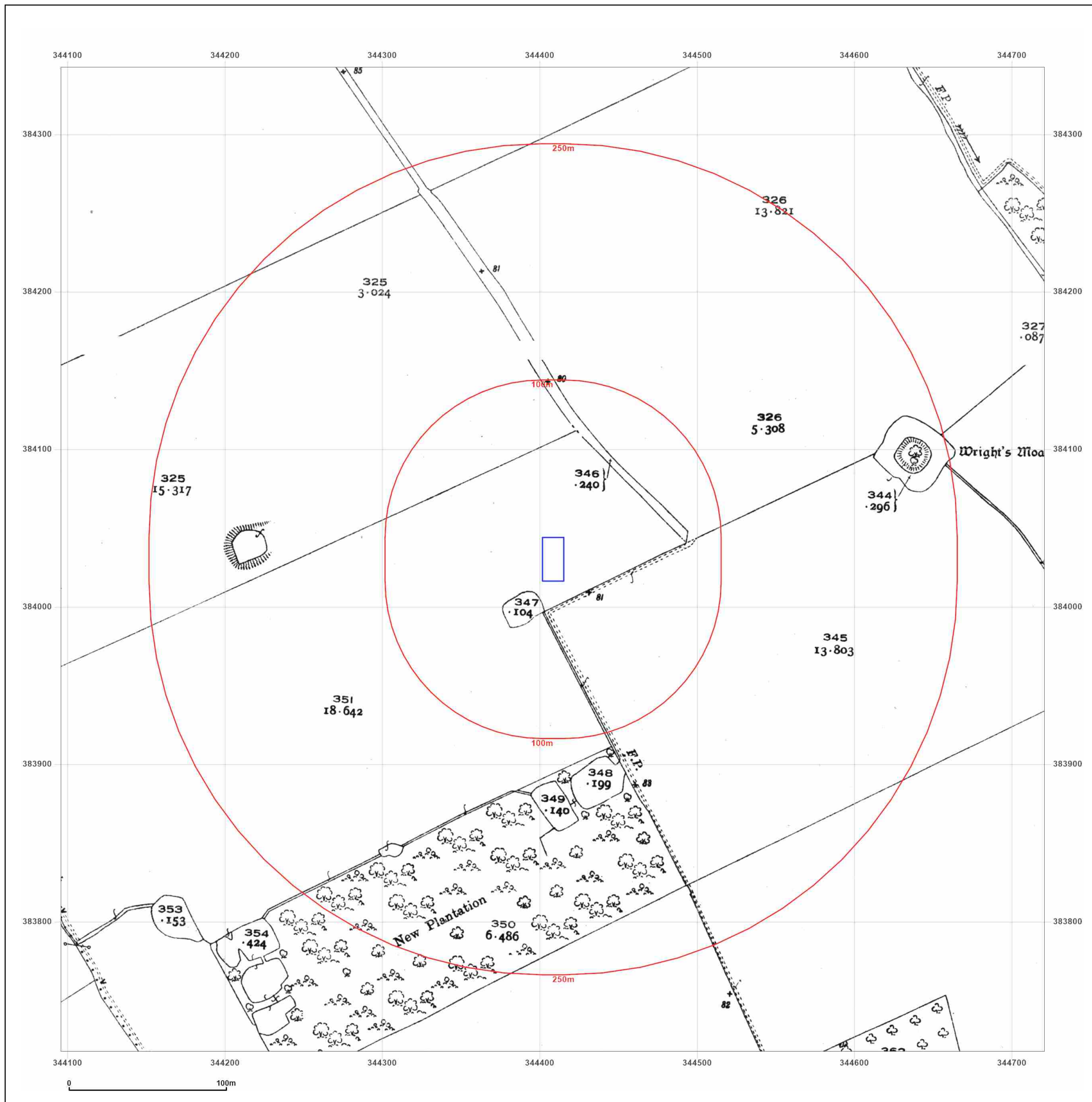


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1936

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1936
 Revised 1936
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1936
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

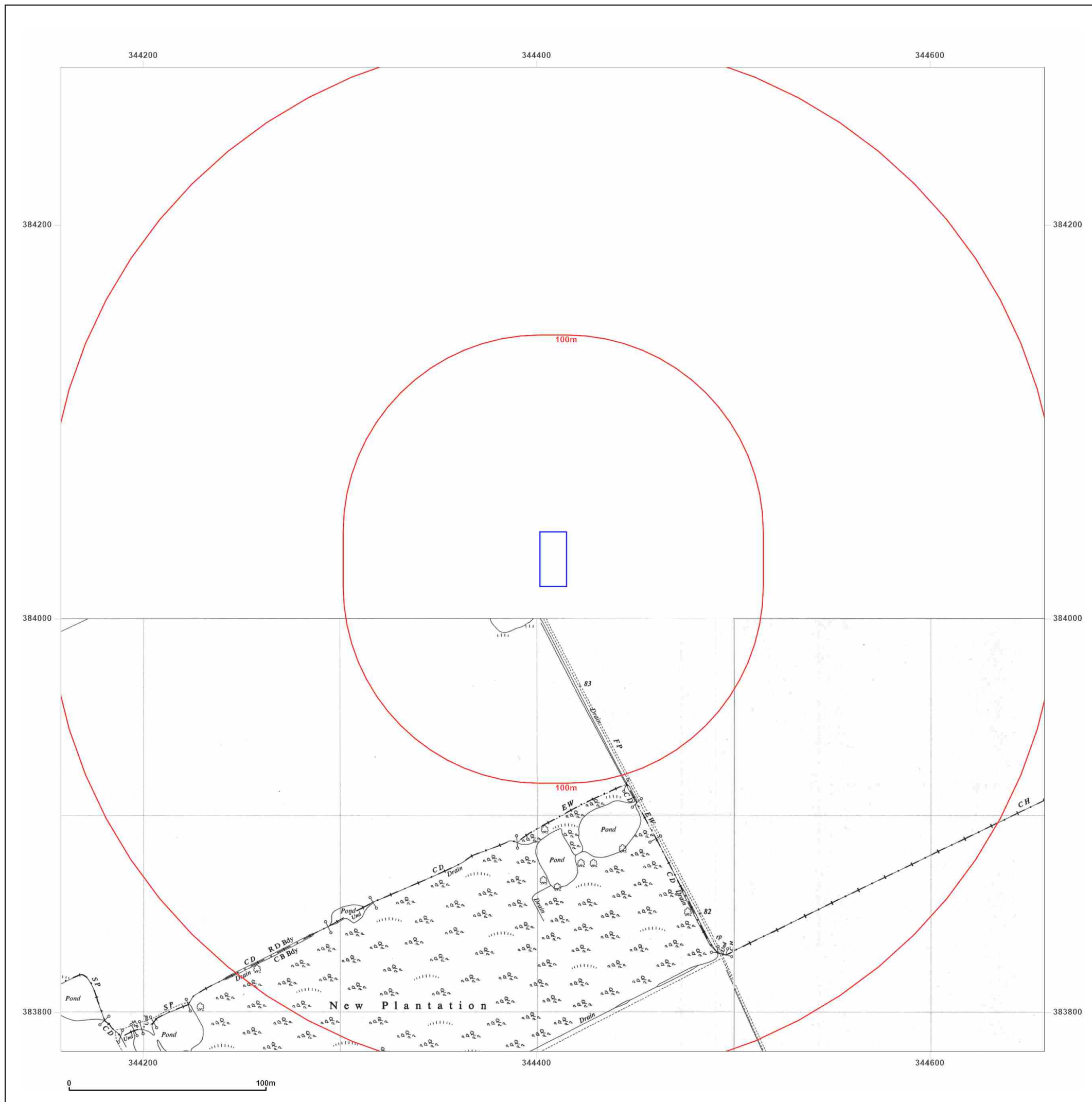


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

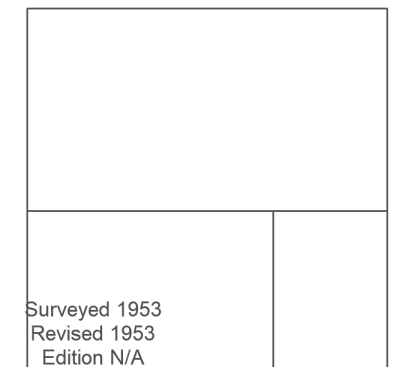
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1953

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1953
 Revised 1953
 Edition N/A
 Copyright N/A
 Levelled 1947

Surveyed 1953
 Revised 1953
 Edition N/A
 Copyright N/A
 Levelled 1947



Produced by
 Groundsure Insights
www.groundsure.com

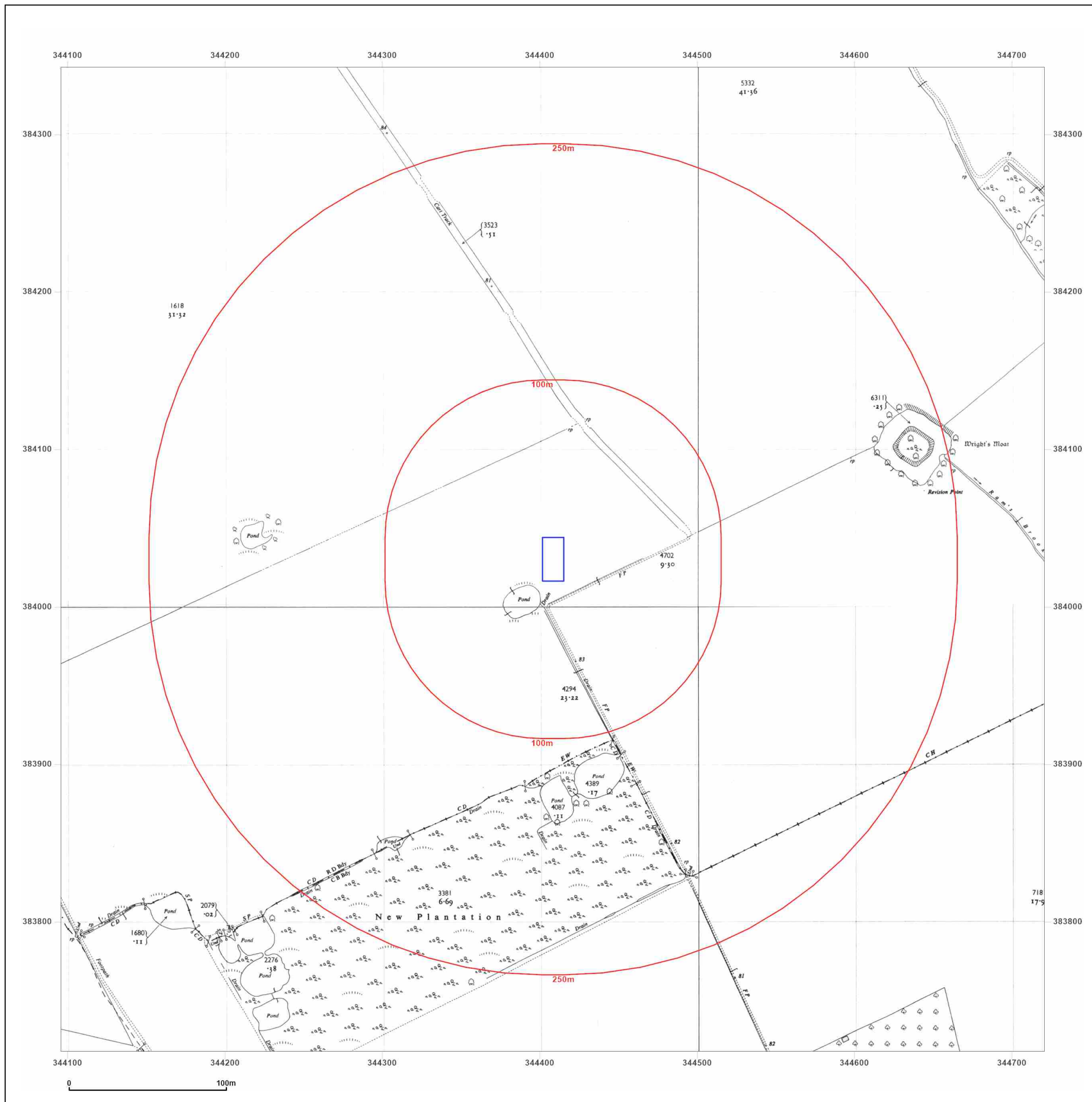


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1953

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1953
 Revised 1953
 Edition 1955
 Copyright N/A
 Levelled 1947

Surveyed 1953
 Revised 1953
 Edition 1955
 Copyright N/A
 Levelled 1947



Produced by
 Groundsure Insights
www.groundsure.com

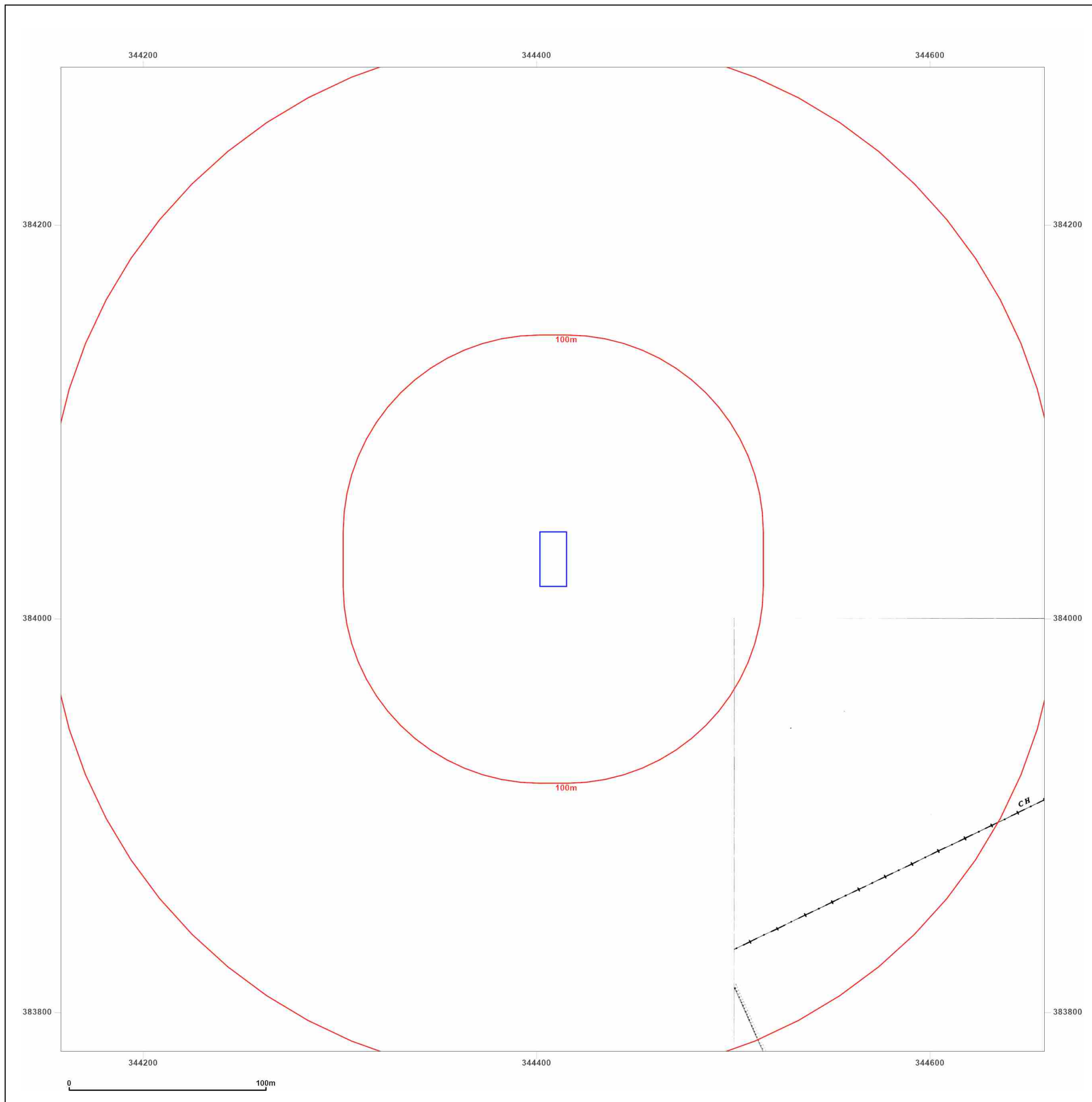


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

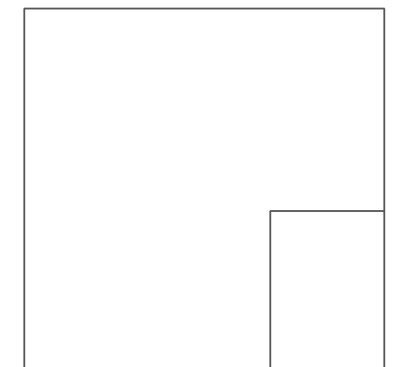
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1954

Scale: 1:1,250

Printed at: 1:2,000



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



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

unspecified

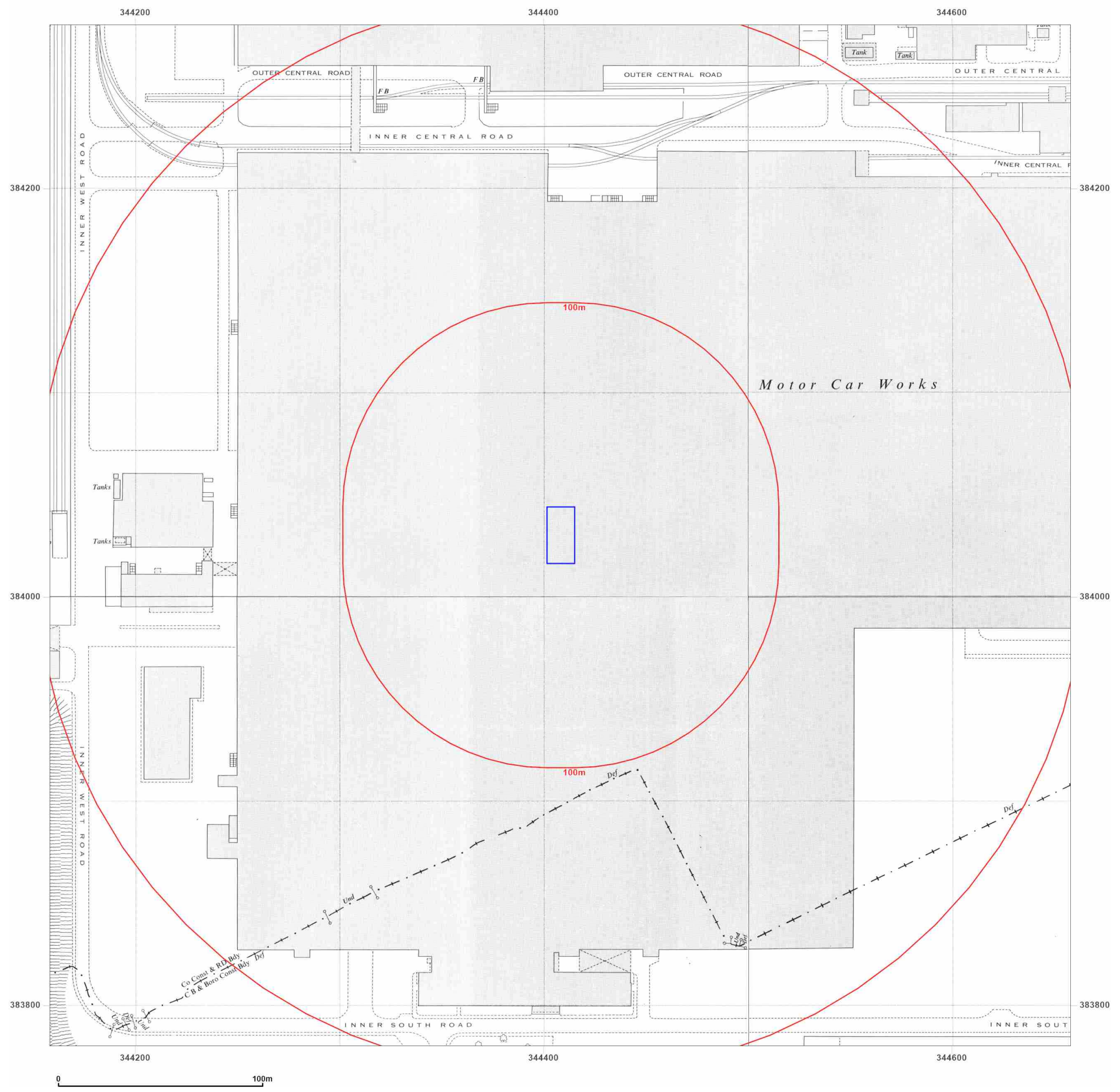
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1965

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1953
 Revised 1964
 Edition N/A
 Copyright 1965
 Levelled 1960

Surveyed 1953
 Revised 1964
 Edition N/A
 Copyright 1965
 Levelled 1960

Surveyed 1964
 Revised 1964
 Edition N/A
 Copyright 1965
 Levelled 1960

Surveyed 1964
 Revised 1964
 Edition N/A
 Copyright 1965
 Levelled 1960



Produced by
 Groundsure Insights
www.groundsure.com

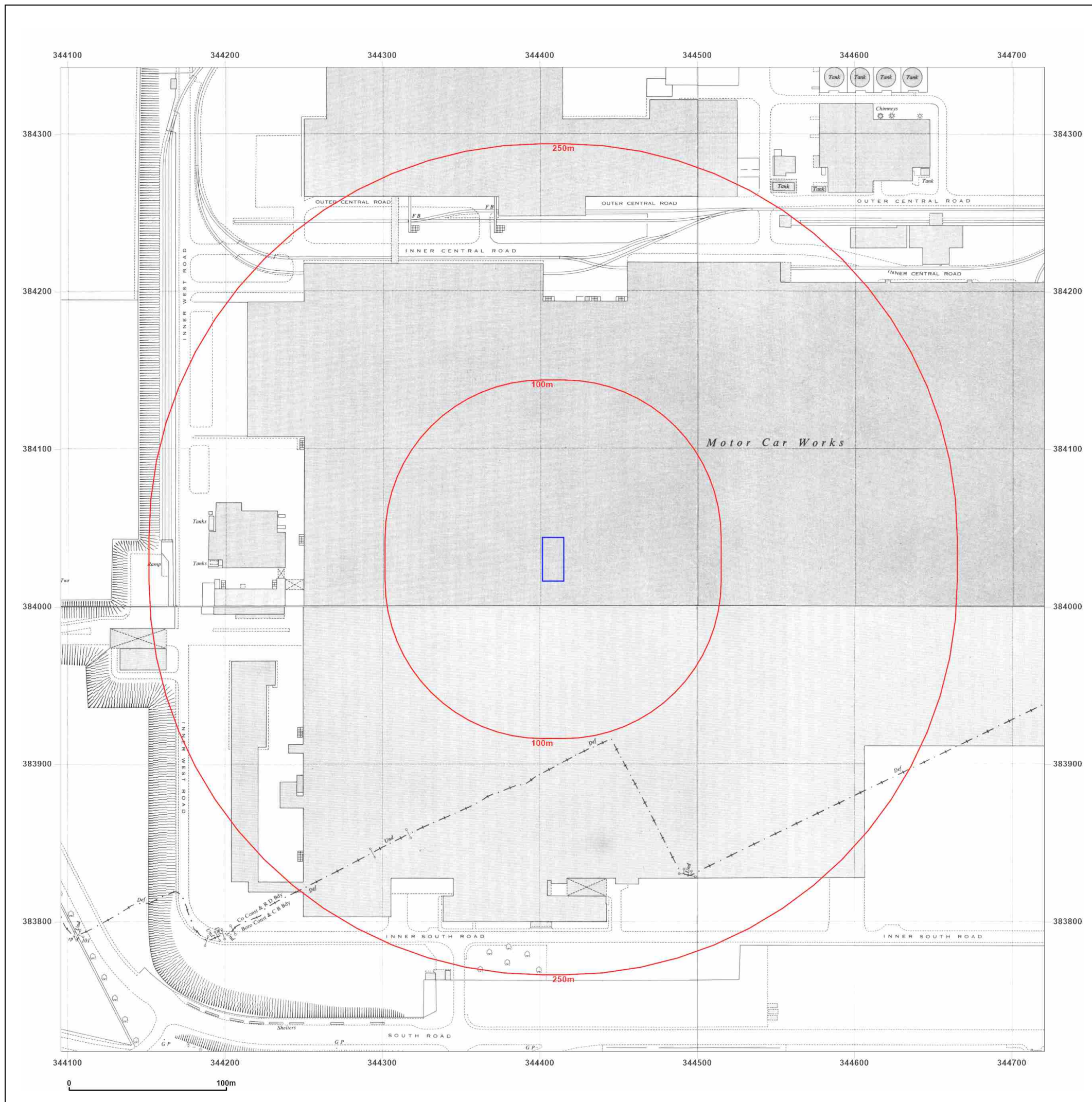


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

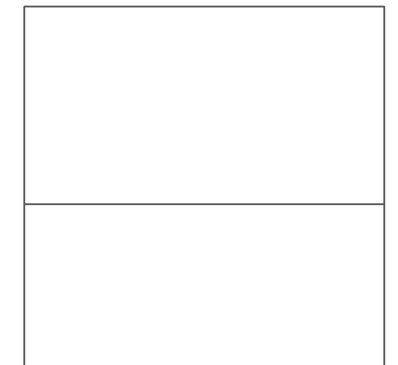
Map date: 1967

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1967
 Revised 1967
 Edition N/A
 Copyright 1968
 Levelled 1960



Surveyed 1970
 Revised 1970
 Edition N/A
 Copyright 1971
 Levelled 1960



Produced by
 Groundsure Insights
www.groundsure.com

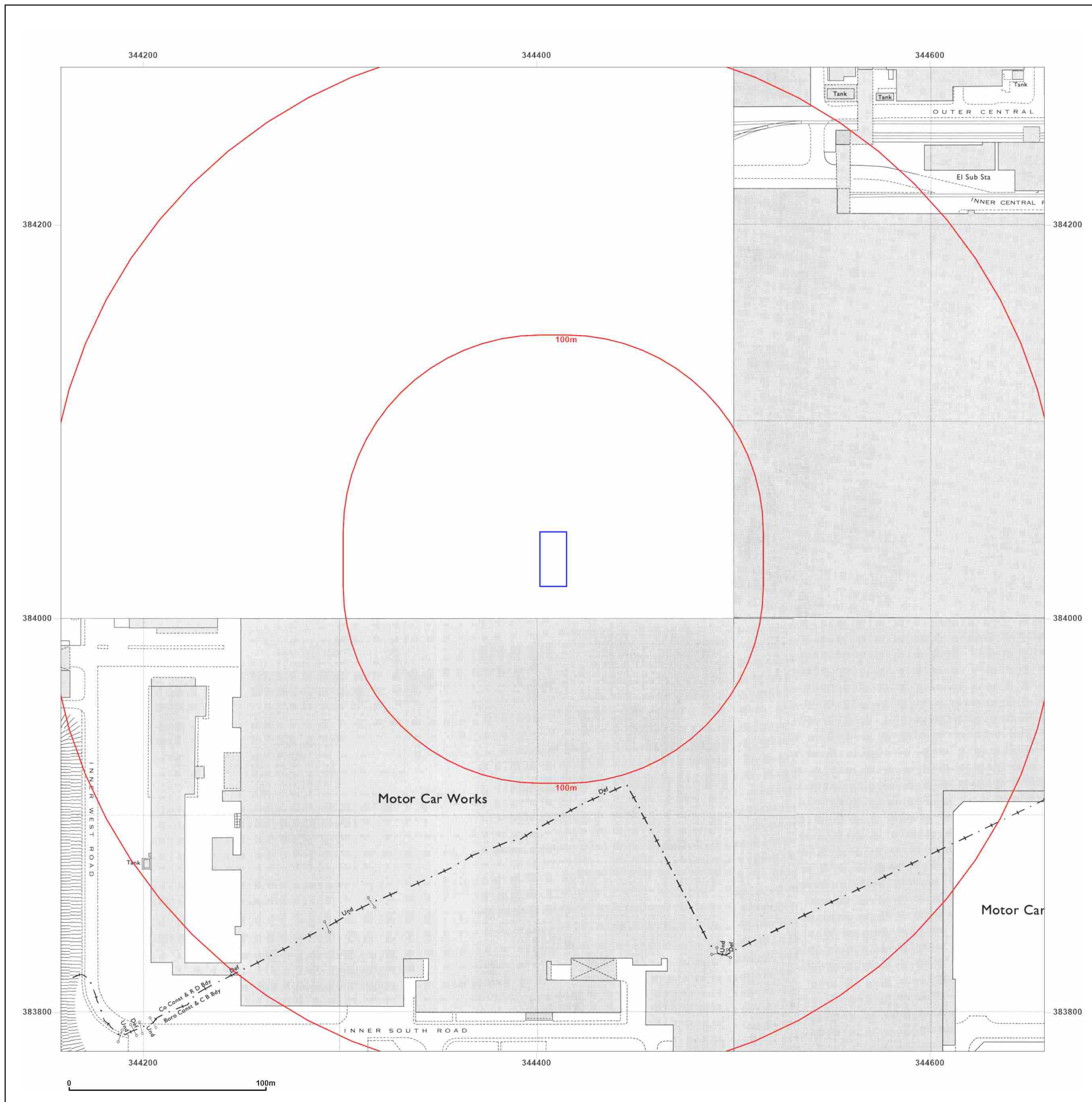


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1973-1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1953
 Revised 1973
 Edition N/A
 Copyright 1974
 Levelled 1960

Surveyed 1953
 Revised 1974
 Edition N/A
 Copyright 1974
 Levelled 1960

Surveyed 1953
 Revised 1972
 Edition N/A
 Copyright 1973
 Levelled 1960



Produced by
 Groundsure Insights
www.groundsure.com

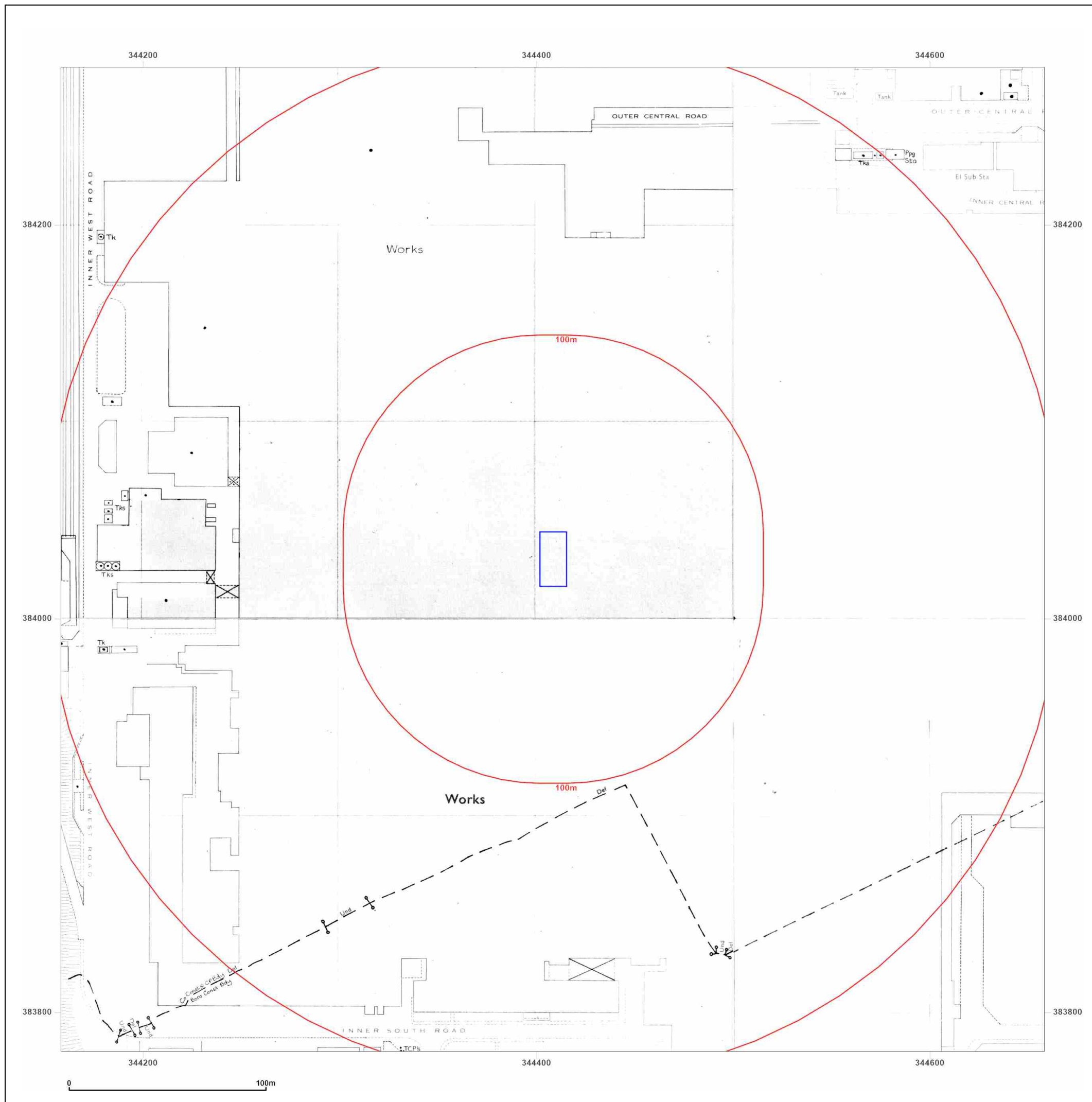


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1989

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1960
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1960

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

Surveyed 1960
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1960

Surveyed 1960
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1960



Produced by
 Groundsure Insights
www.groundsure.com

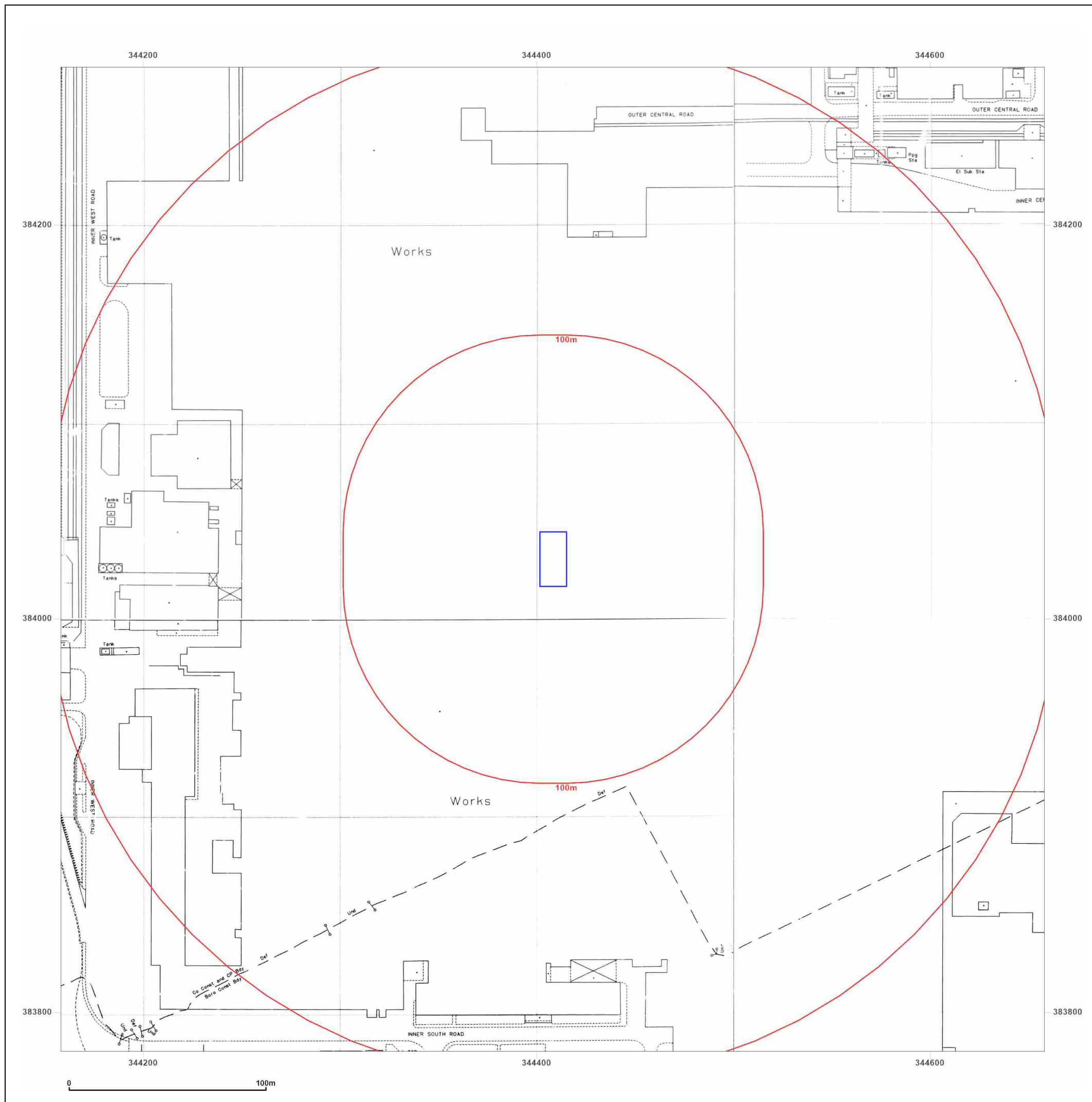


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
 Revised 1993
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1993
 Revised 1993
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

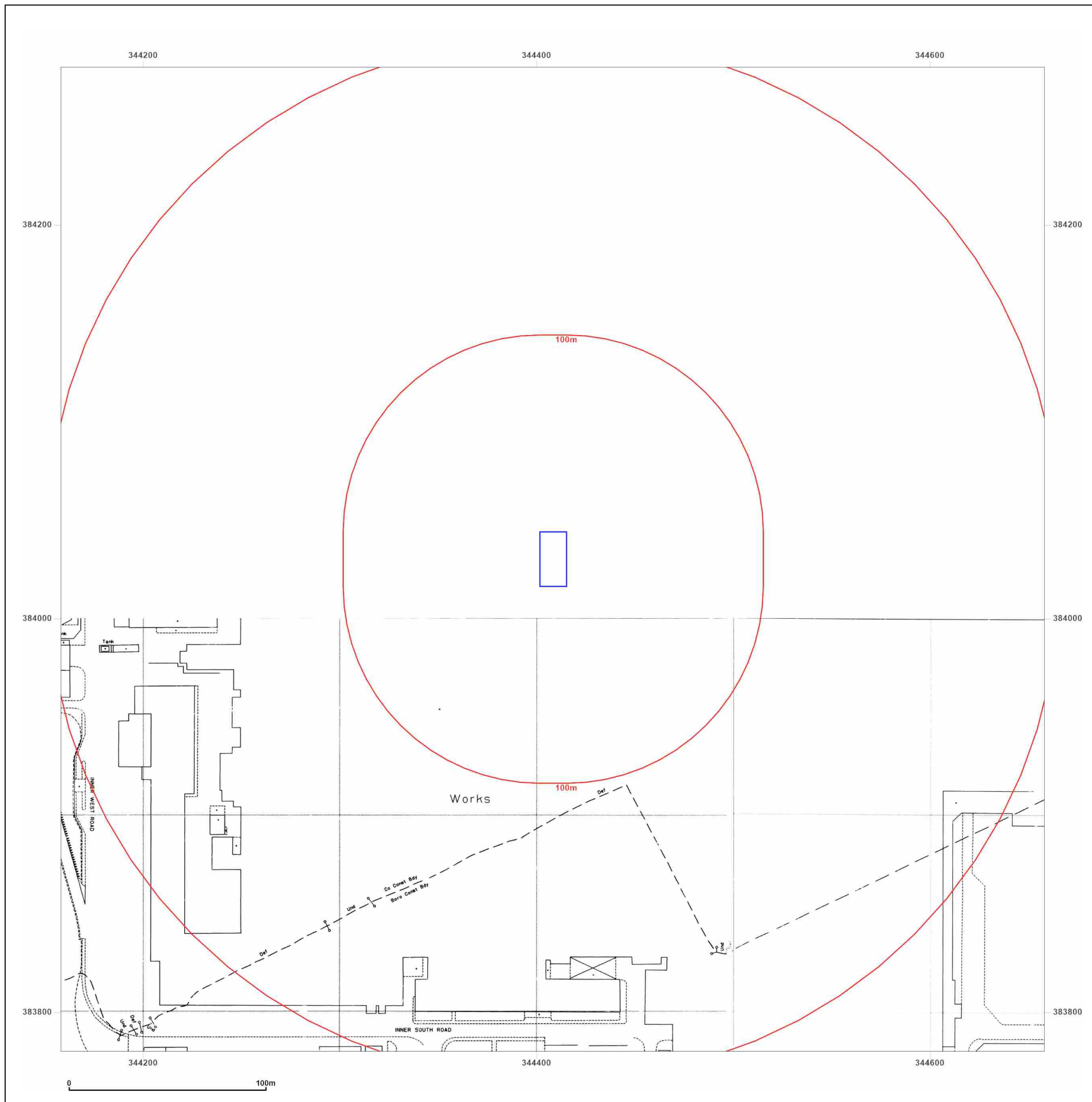


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

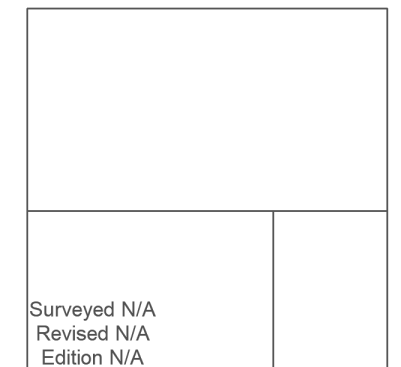
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1993-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1994
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

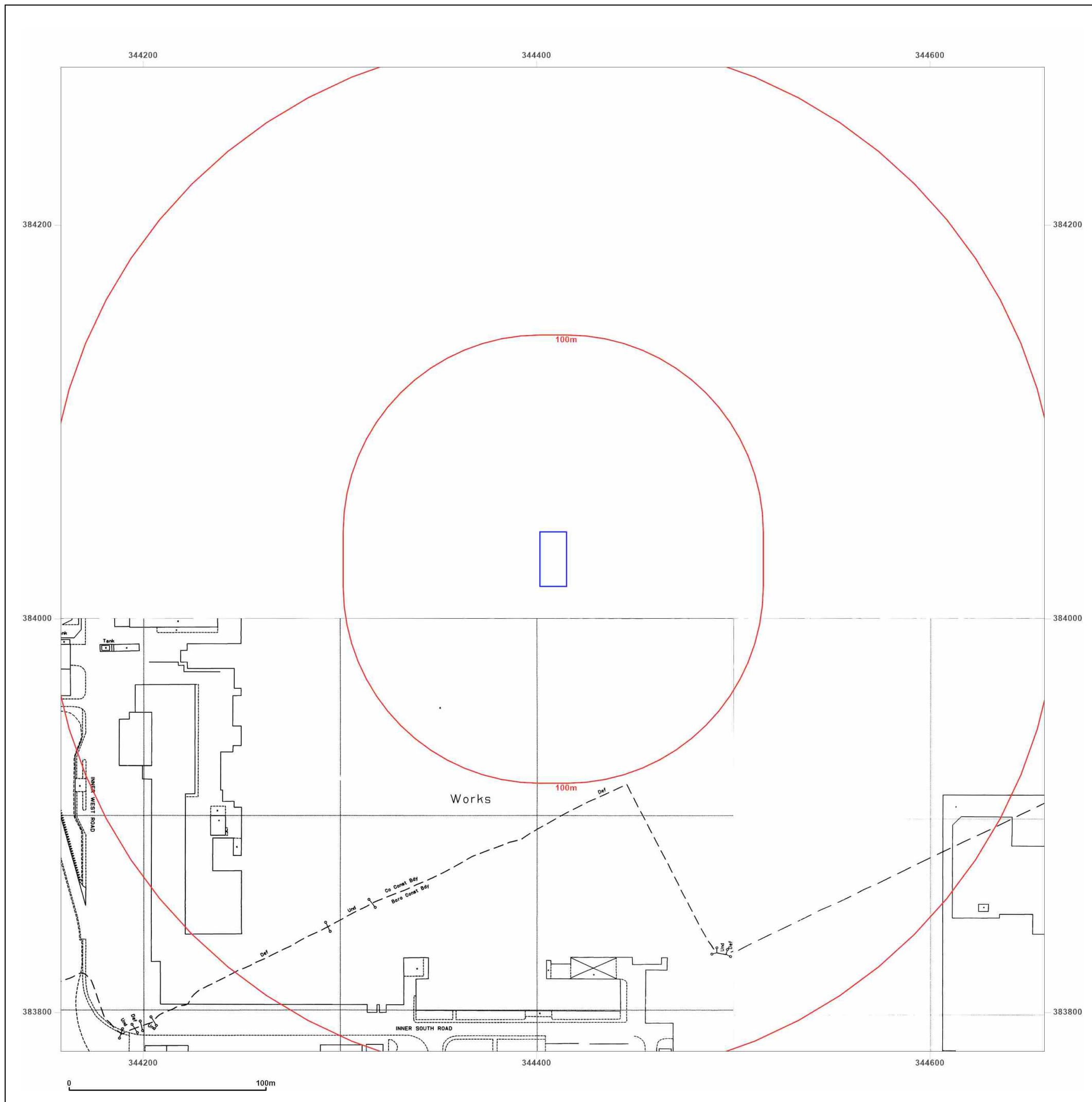


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

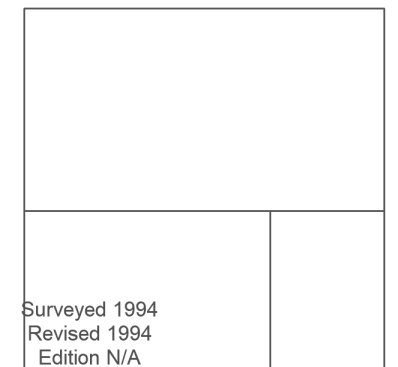
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1993-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright 1994
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

EMAPSITE™

Site Details:

unspecified

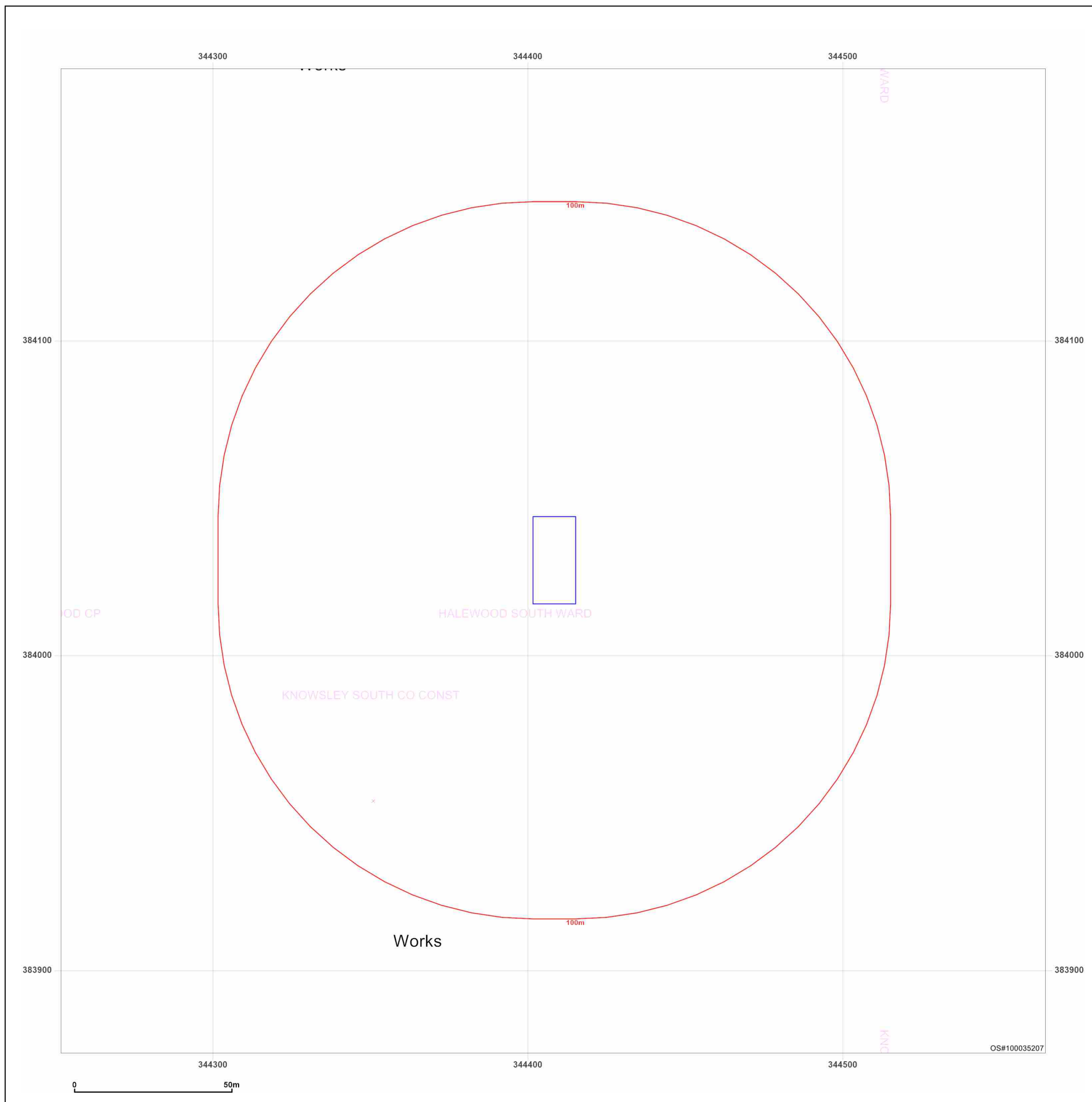
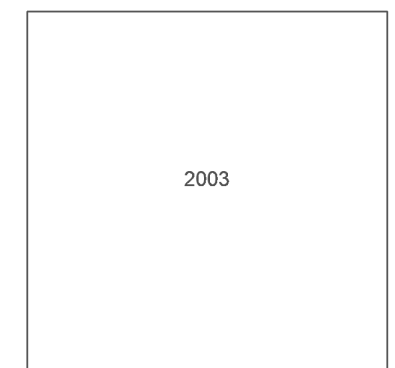
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



Produced by
Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Appendix C Groundsure Historic Maps (small scale)

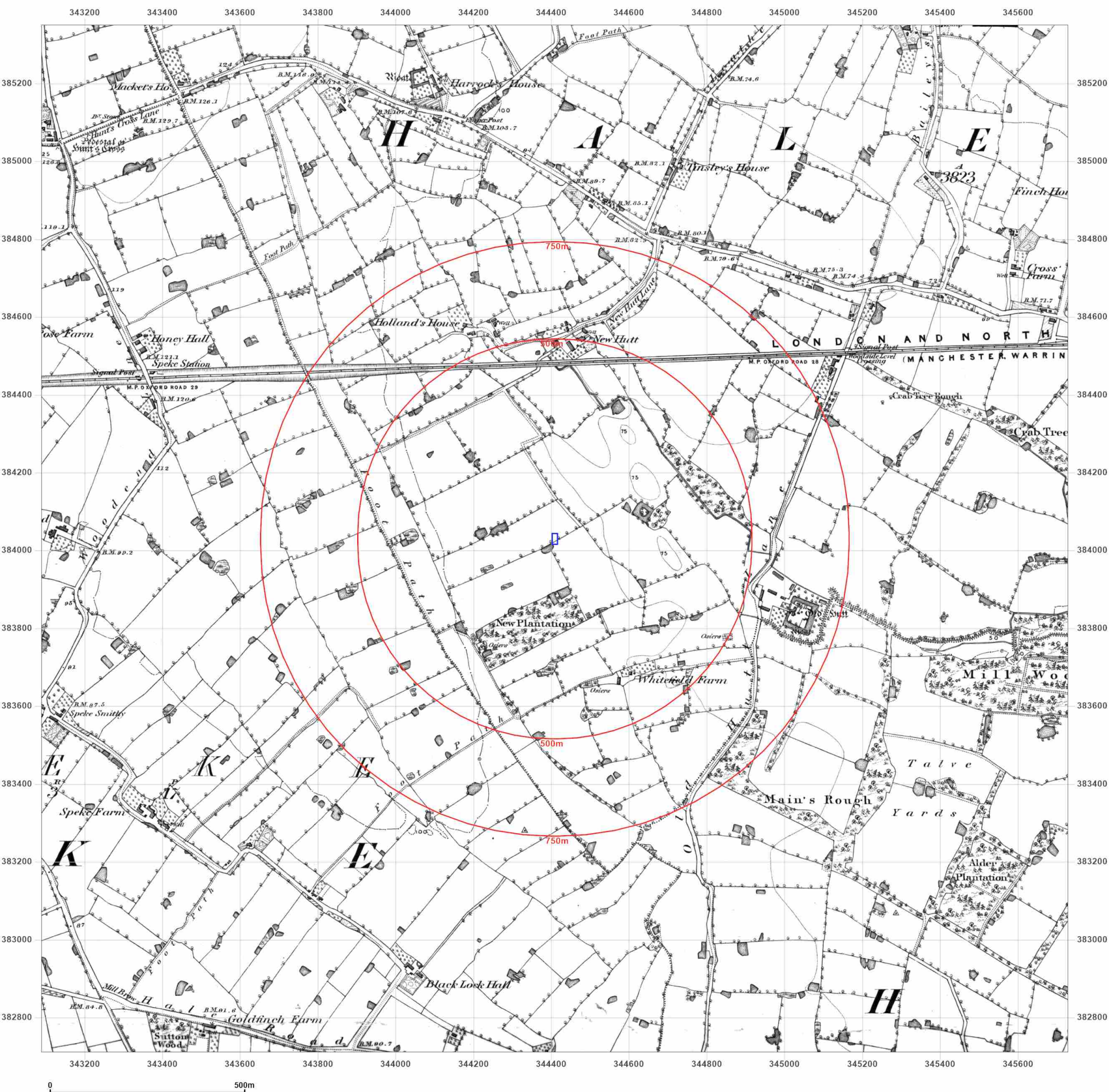
EMS_907867_1158020

Halewood Manufacturing Plant – Environmental Permit Variation

Jaguar Land Rover Limited

SLR Project No.: 416.064966.00001

29 January 2024



EMAPSITE™

Site Details:
unspecified

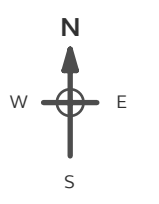
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1849

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1846
 Revised N/A
 Edition 1849
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207
 Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1891-1894

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1894
 Revised 1894
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

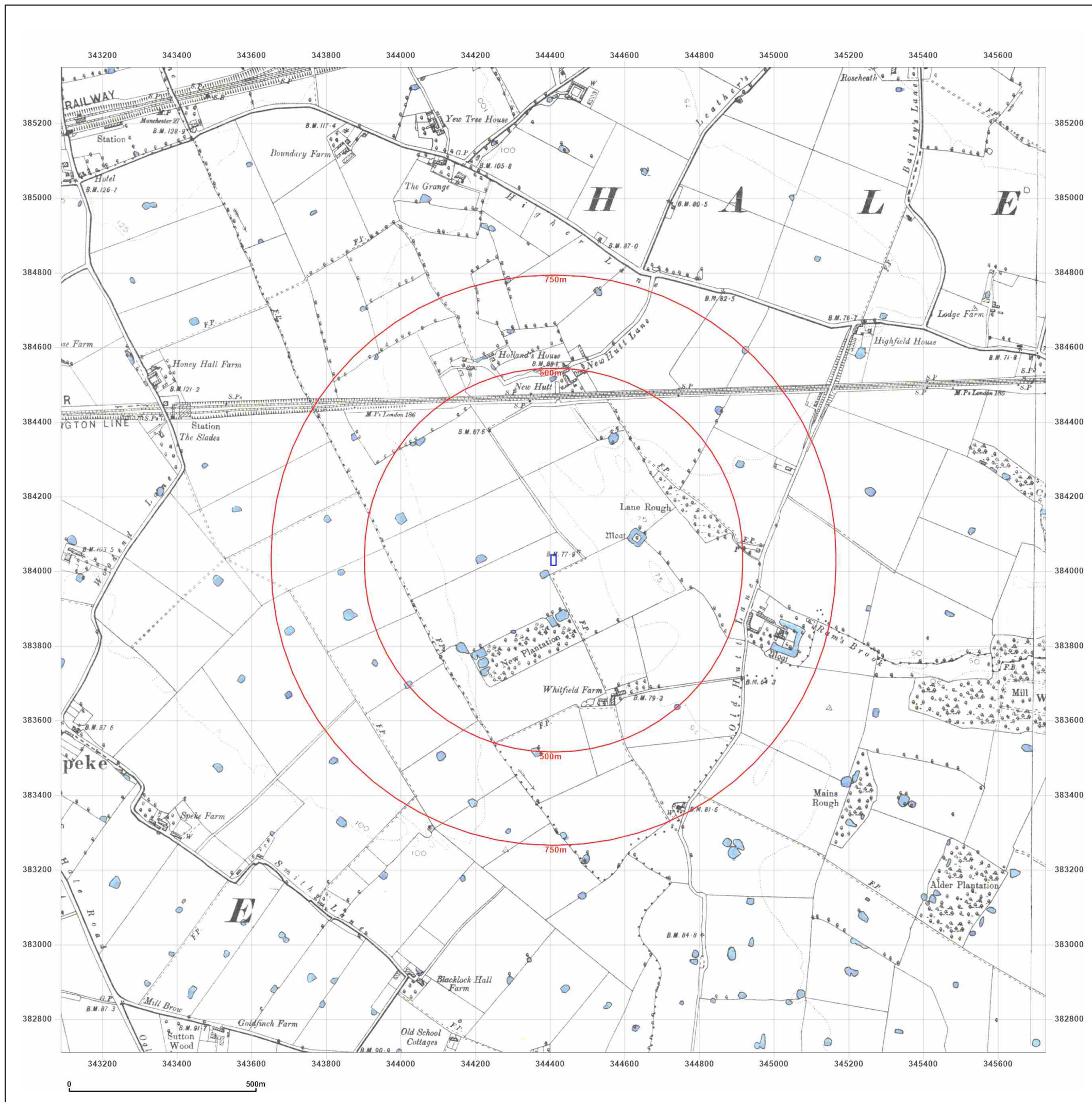


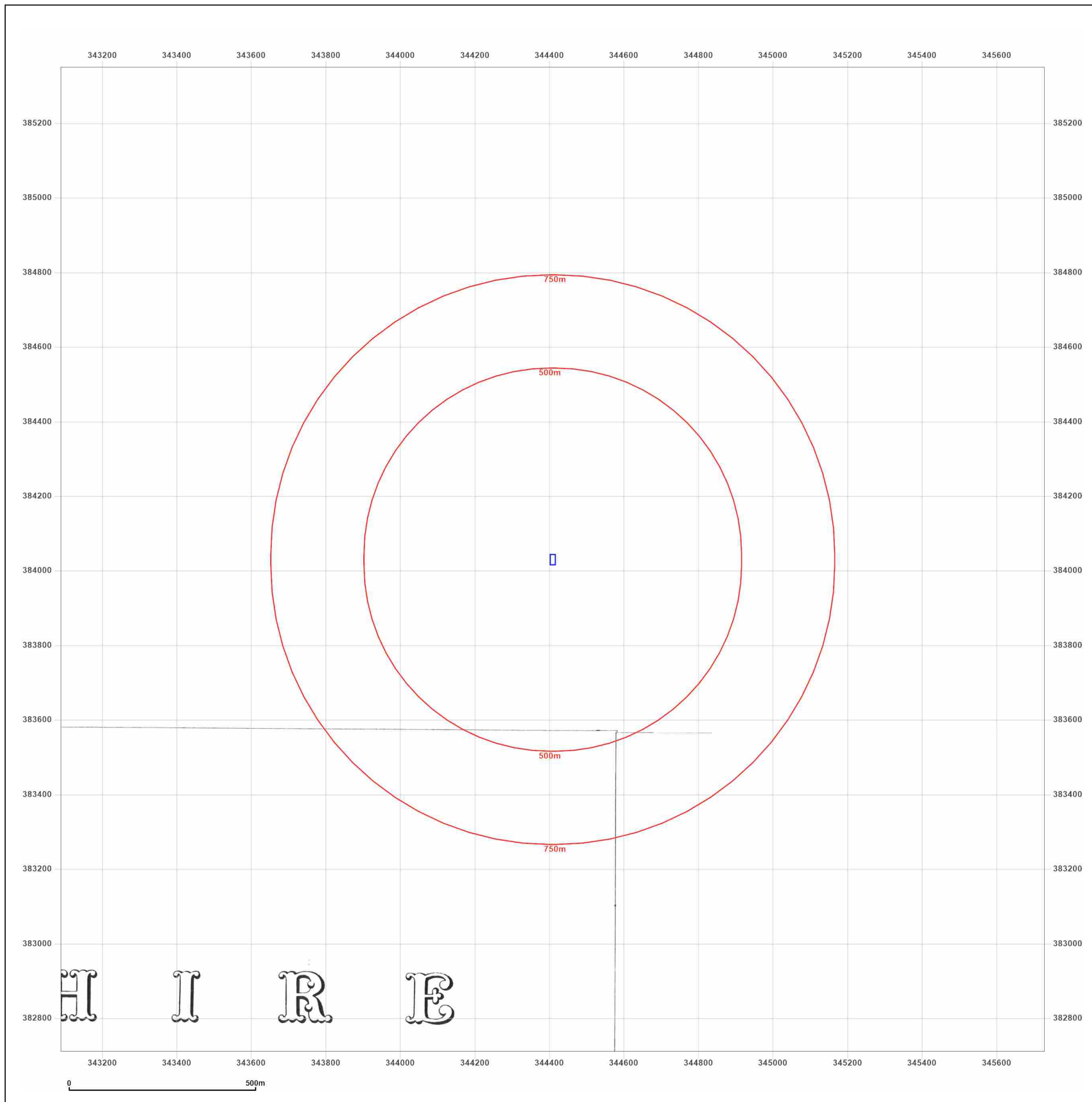
Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1897

Scale: 1:10,560

Printed at: 1:10,560



<p>Surveyed 1872 Revised 1897 Edition N/A Copyright N/A Levelled N/A</p>	<p>Surveyed 1874 Revised 1897 Edition N/A Copyright N/A Levelled N/A</p>
--	--



Produced by
Groundsure Insights
www.groundsure.com

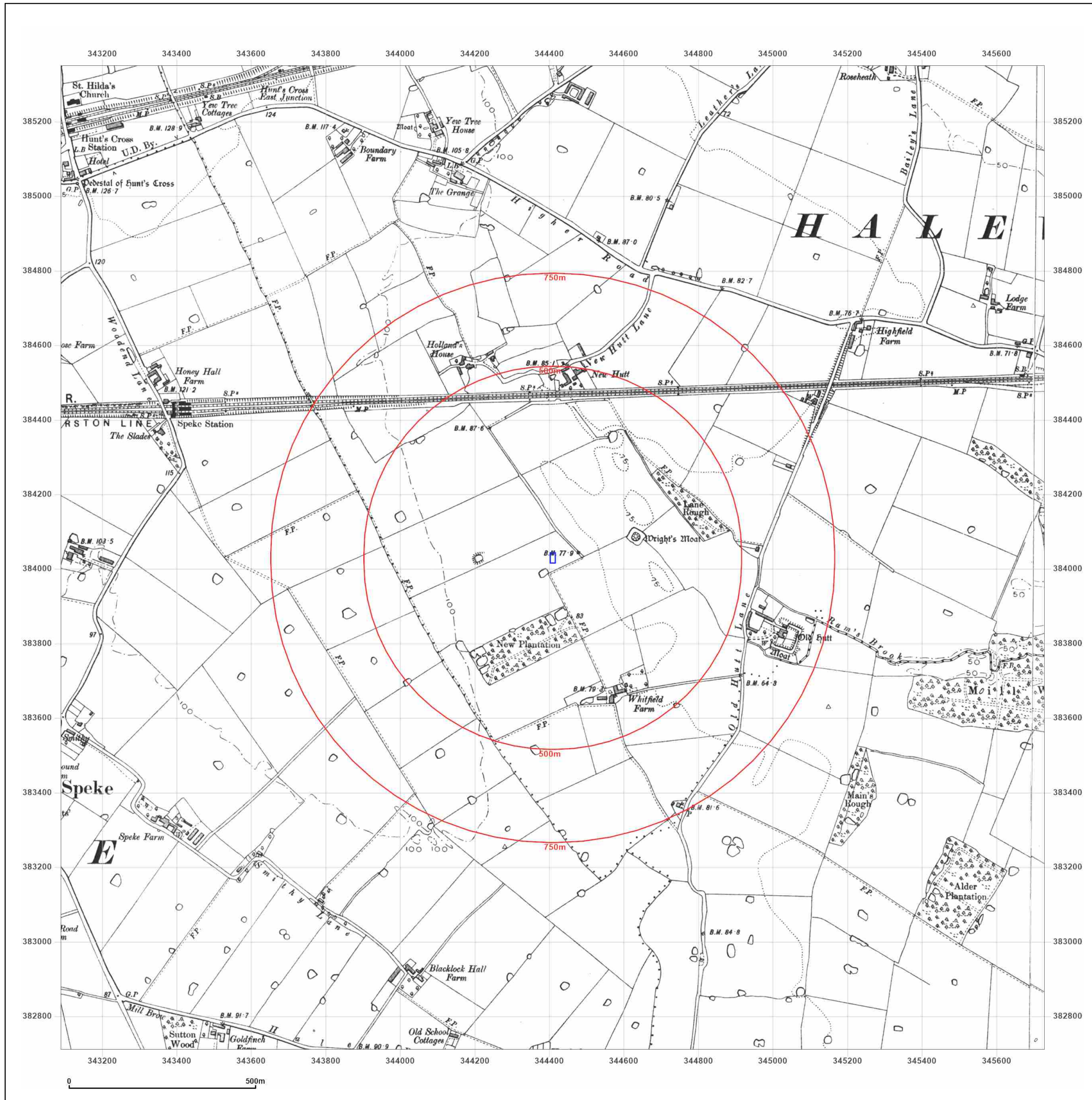


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:
 unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series
Map date: 1904-1905
Scale: 1:10,560
Printed at: 1:10,560



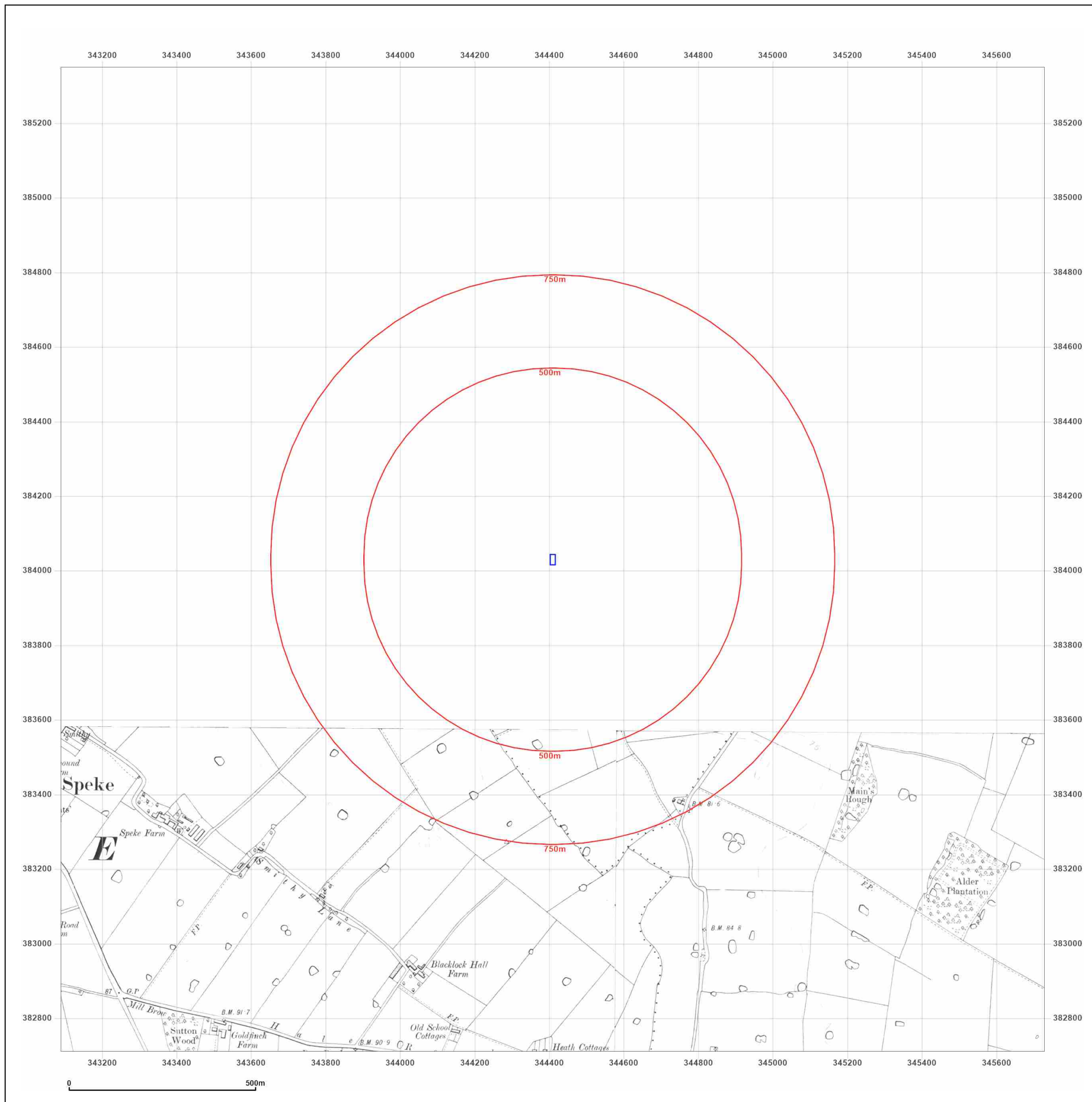
Surveyed 1891
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1891
 Revised 1905
 Edition N/A
 Copyright N/A
 Levelled N/A

Groundsure INSIGHTS
 Produced by Groundsure Insights
www.groundsure.com

Powered by **EMAPSITE**
 Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207
 Production date: 16 November 2023
 Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1912

Scale: 1:10,560

Printed at: 1:10,560



<p>Surveyed 1872 Revised 1912 Edition N/A Copyright N/A Levelled N/A</p>	<p>Surveyed 1872 Revised 1912 Edition N/A Copyright N/A Levelled N/A</p>



Produced by
Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
 Revised 1925
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1846
 Revised 1925
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

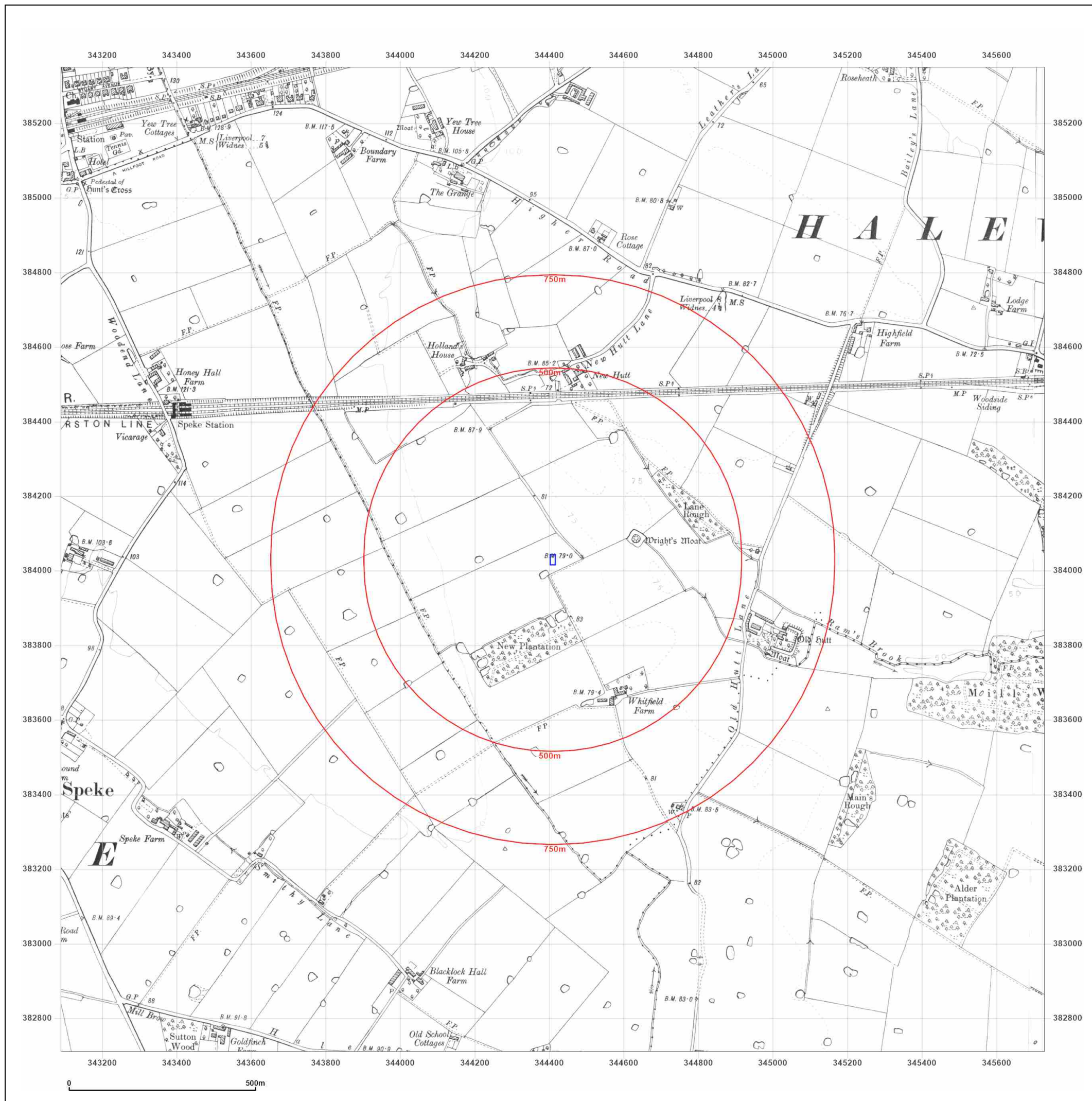


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
 Revised 1925
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1846
 Revised 1925
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

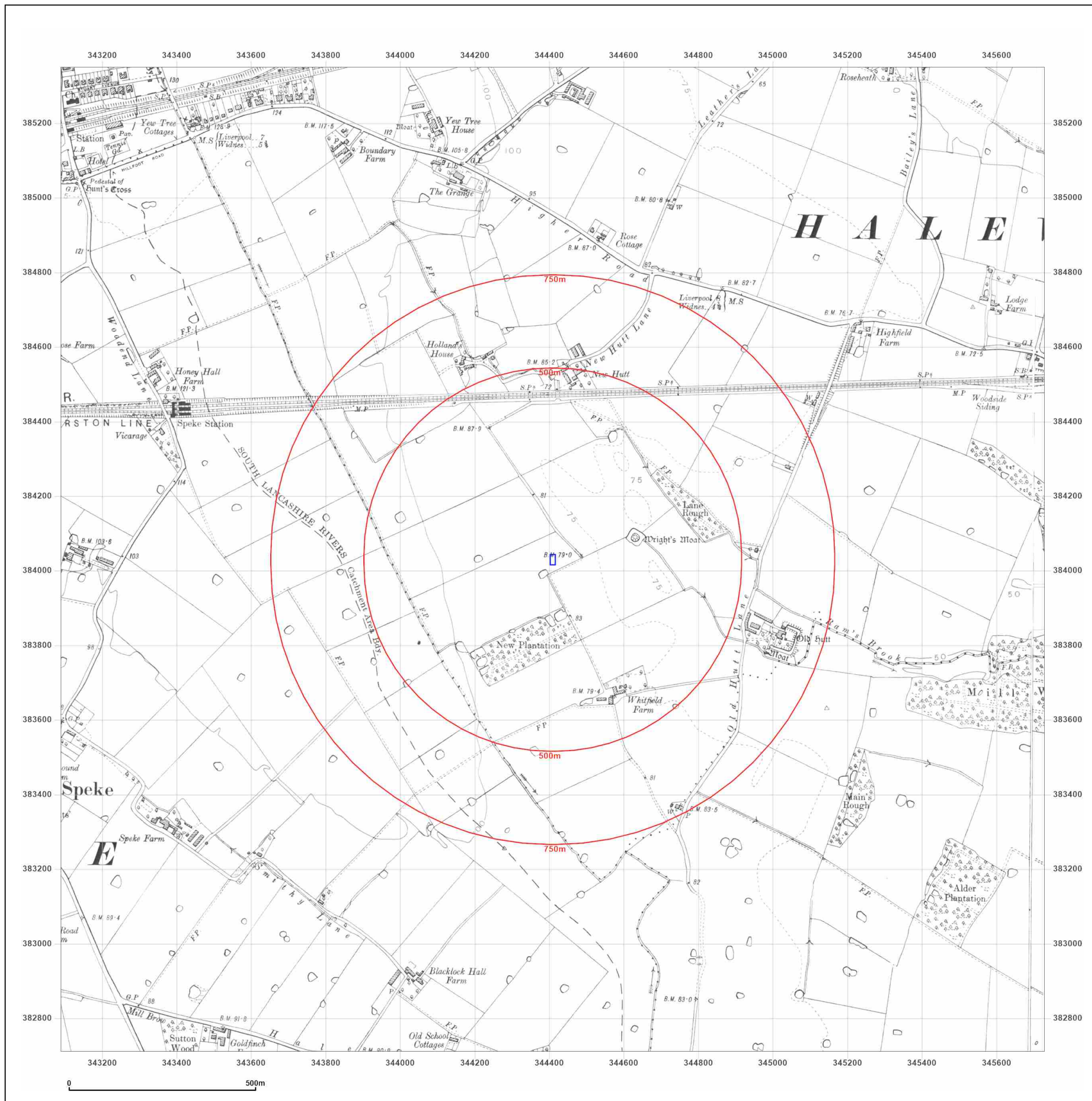


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1846
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

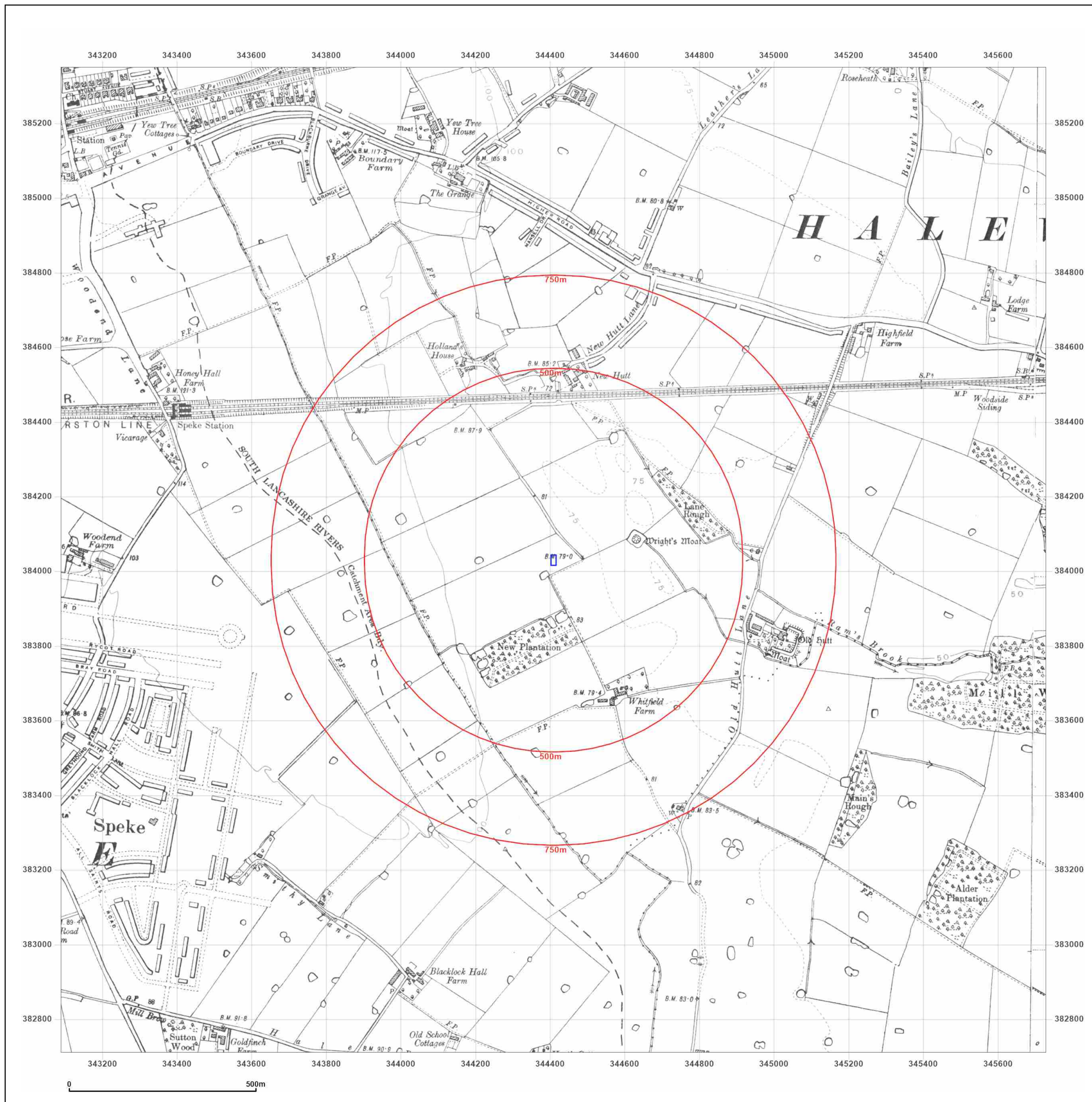


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

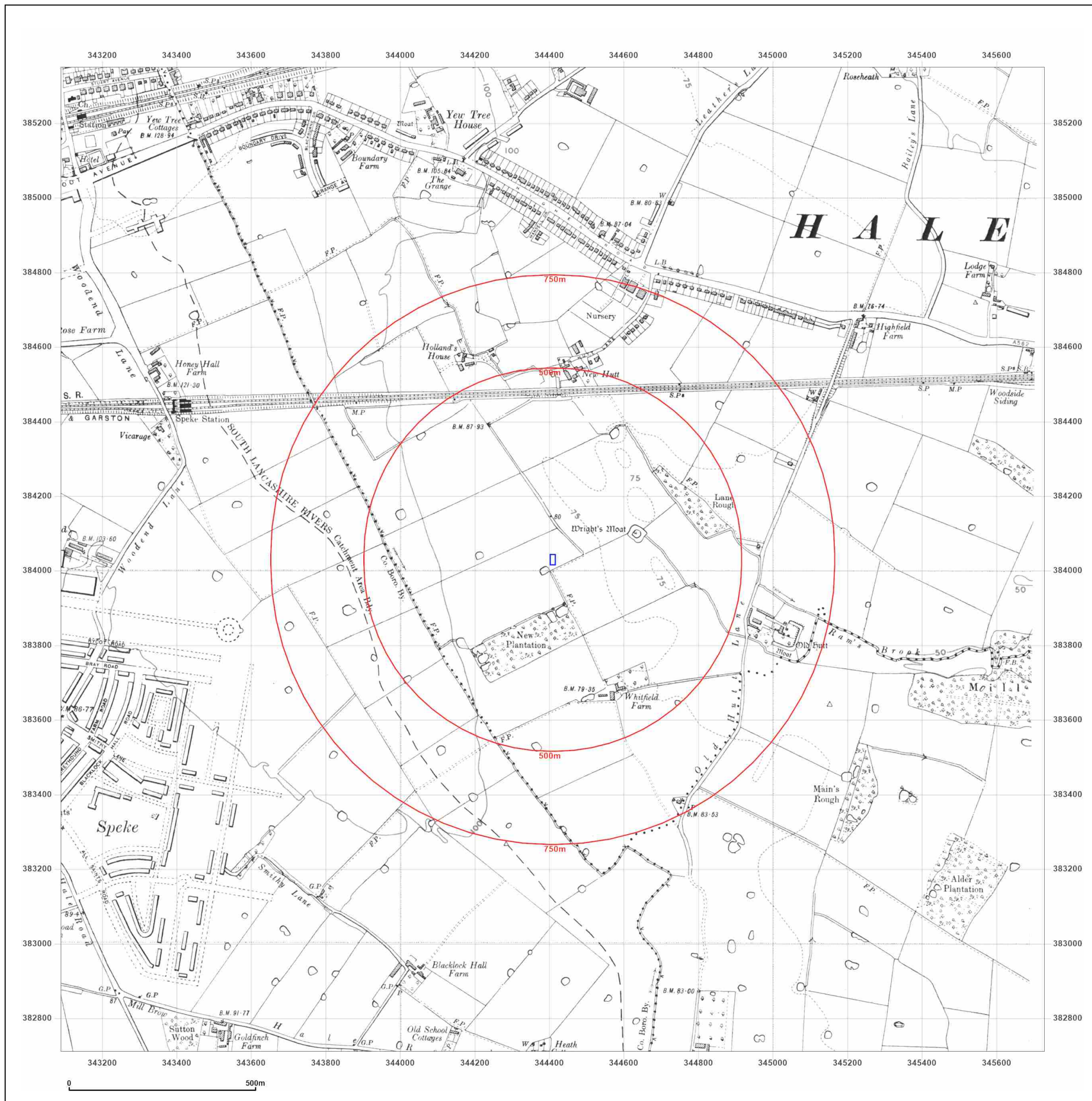


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: Provisional

Map date: 1954-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1954
 Revised 1955
 Edition N/A
 Copyright 1956
 Levelled N/A

Surveyed N/A
 Revised 1955
 Edition N/A
 Copyright 1955
 Levelled N/A

Surveyed N/A
 Revised 1955
 Edition 1956
 Copyright N/A
 Levelled N/A

Surveyed N/A
 Revised 1953
 Edition 1954
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

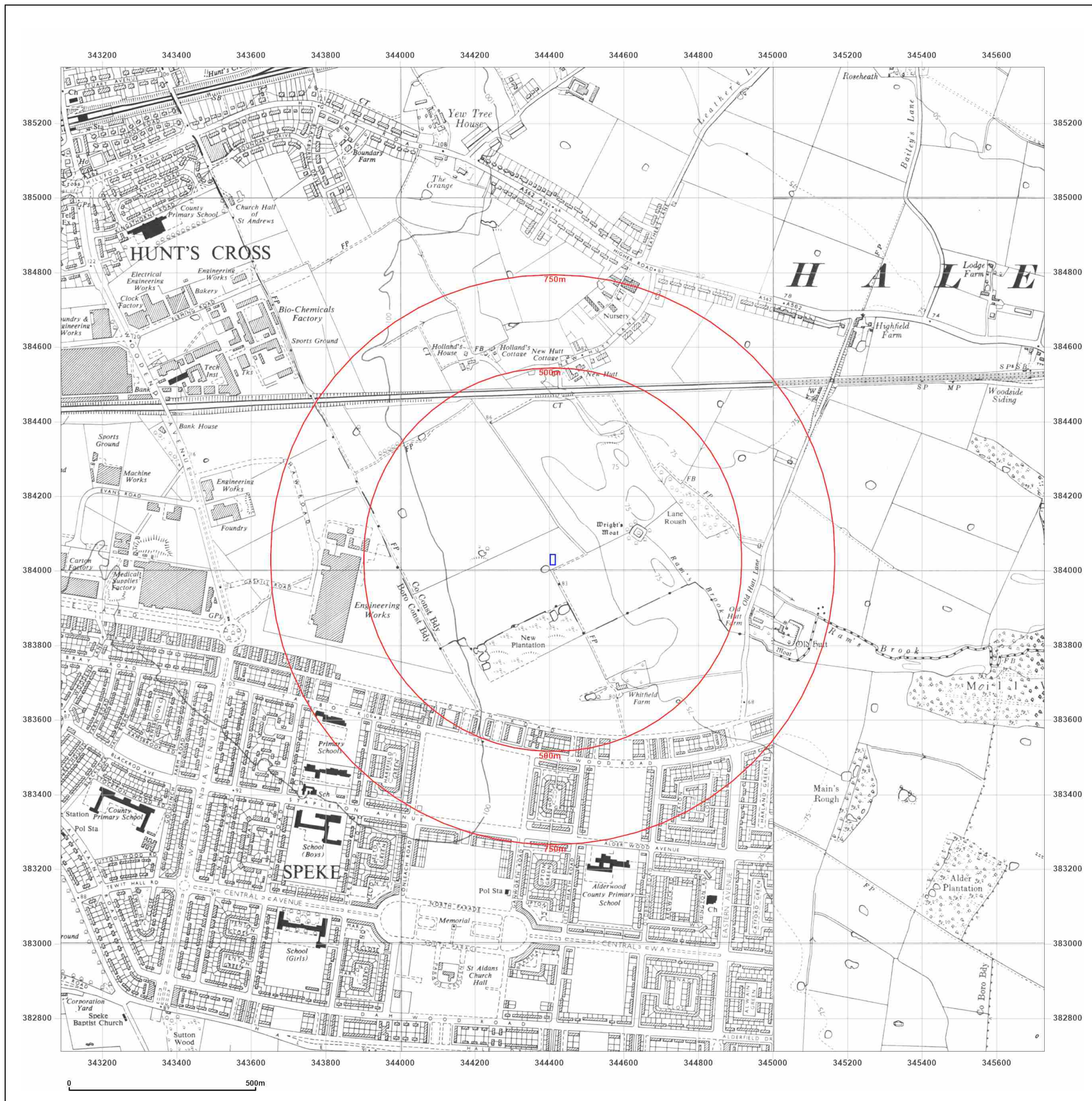


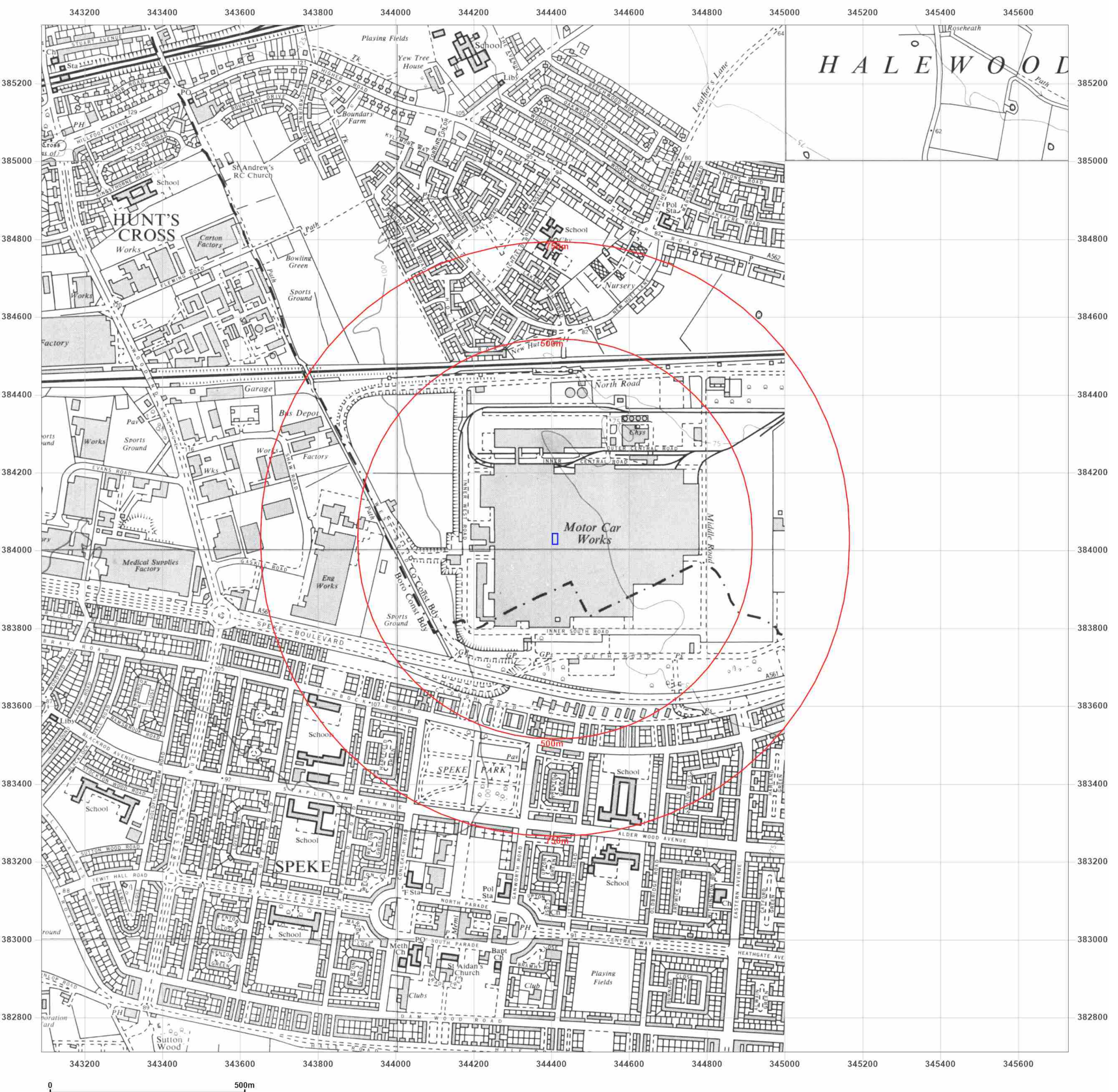
Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





EMAPSITE™

Site Details:

unspecified

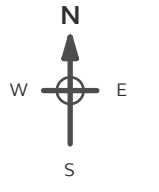
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: Provisional

Map date: 1966-1967

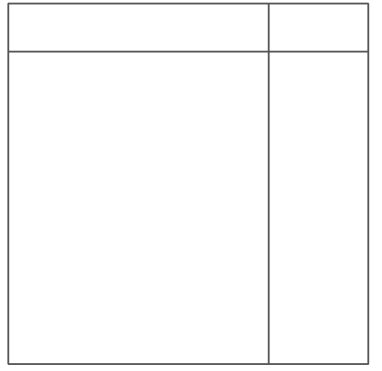
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
 Revised 1967
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1967
 Revised 1967
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1966
 Revised 1966
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

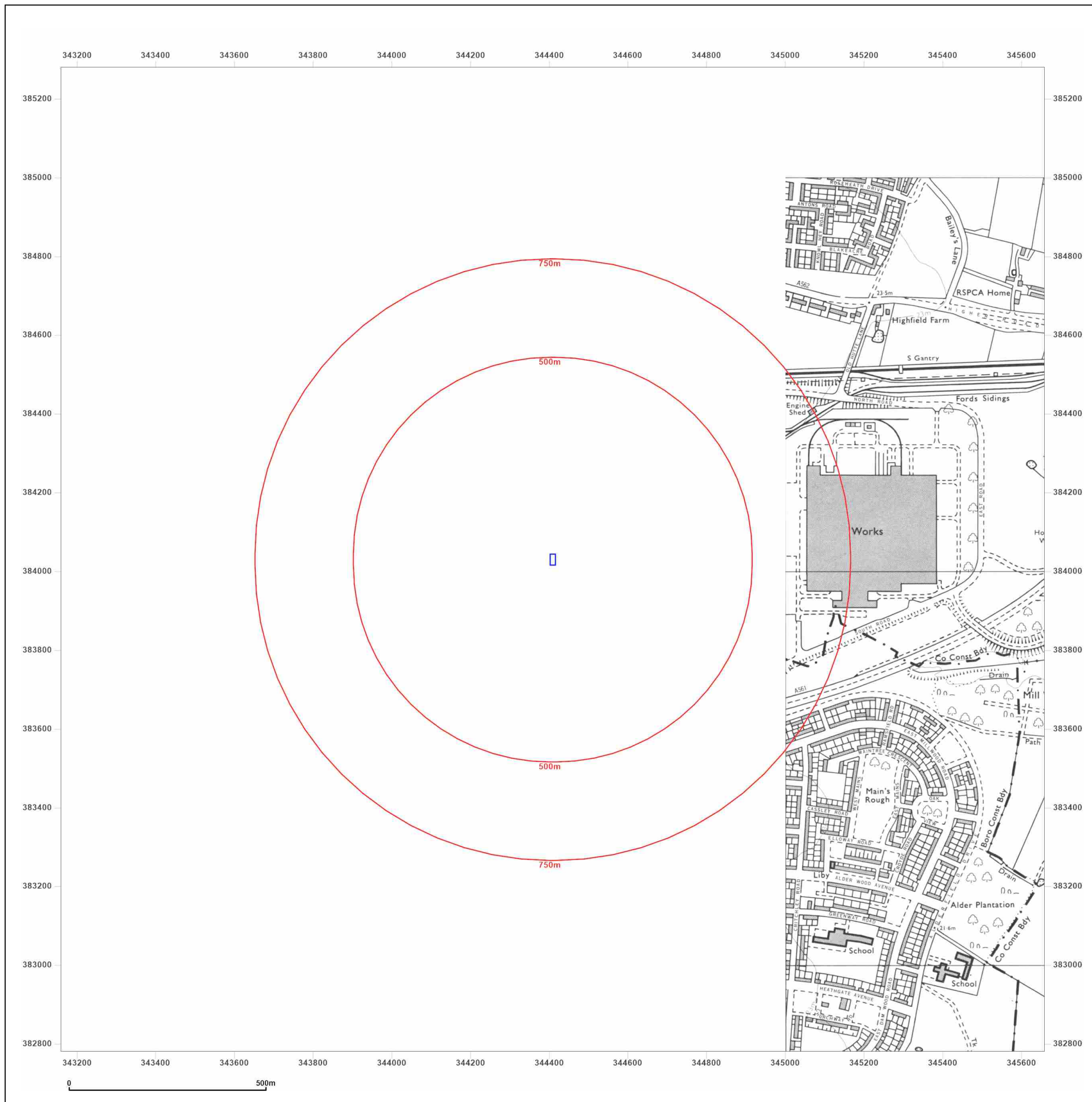


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

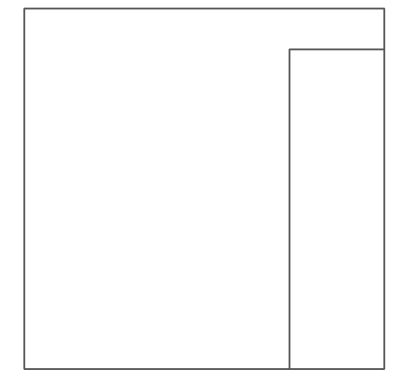
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 1968

Scale: 1:10,000

Printed at: 1:10,000



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



Produced by
 Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

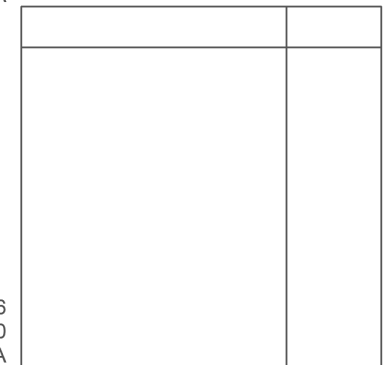
Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1979
 Revised 1980
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1976
 Revised 1980
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1979
 Revised 1982
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

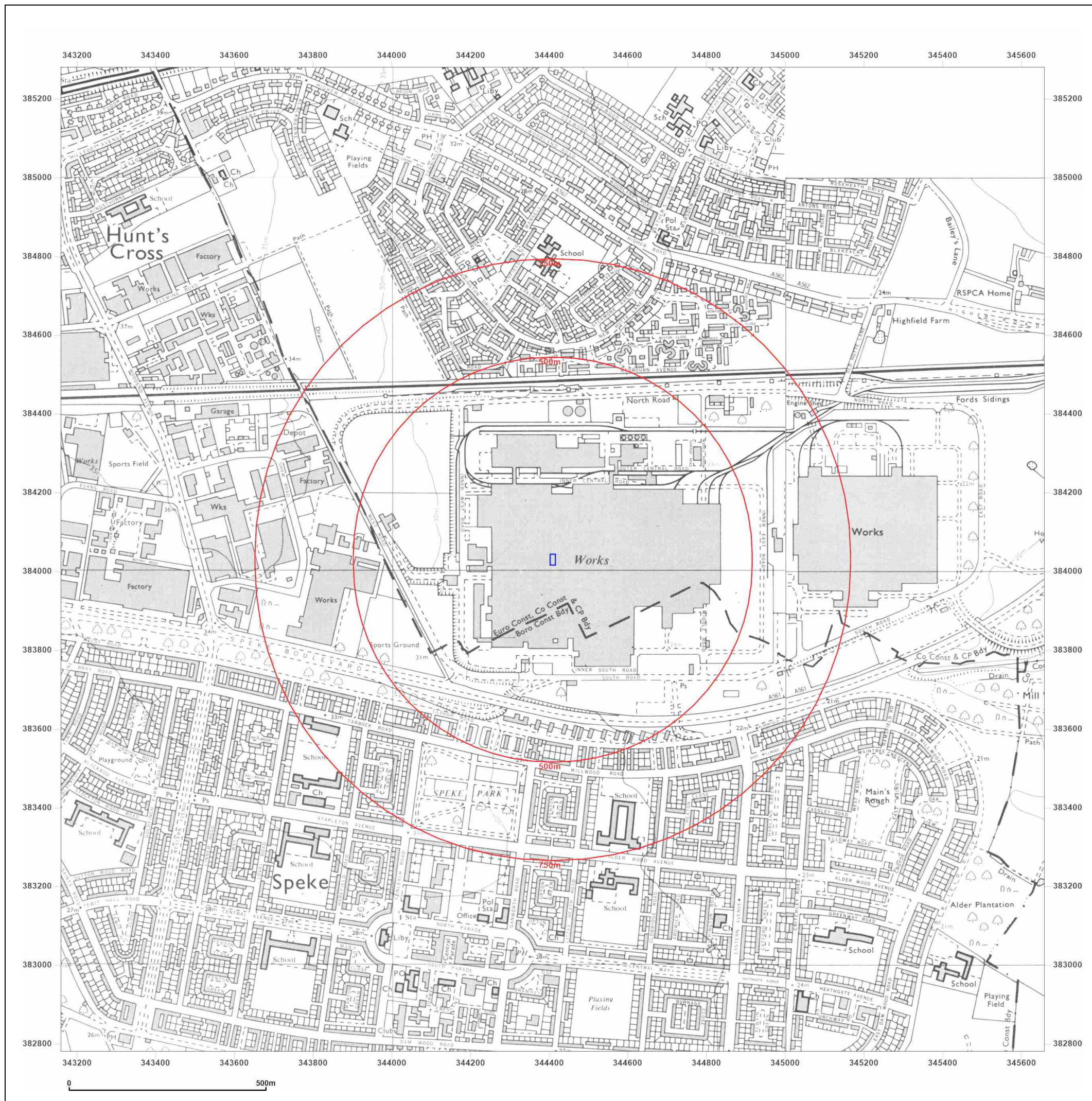


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

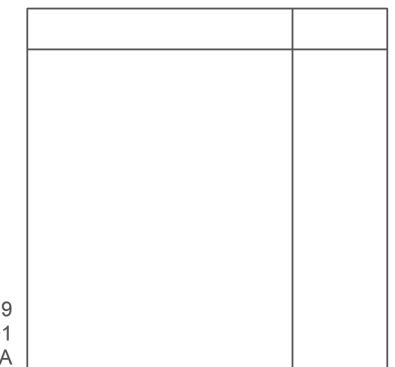
Map date: 1989-1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1986
 Revised 1989
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1989
 Revised 1991
 Edition N/A
 Copyright N/A
 Levelled N/A



Produced by
 Groundsure Insights
www.groundsure.com

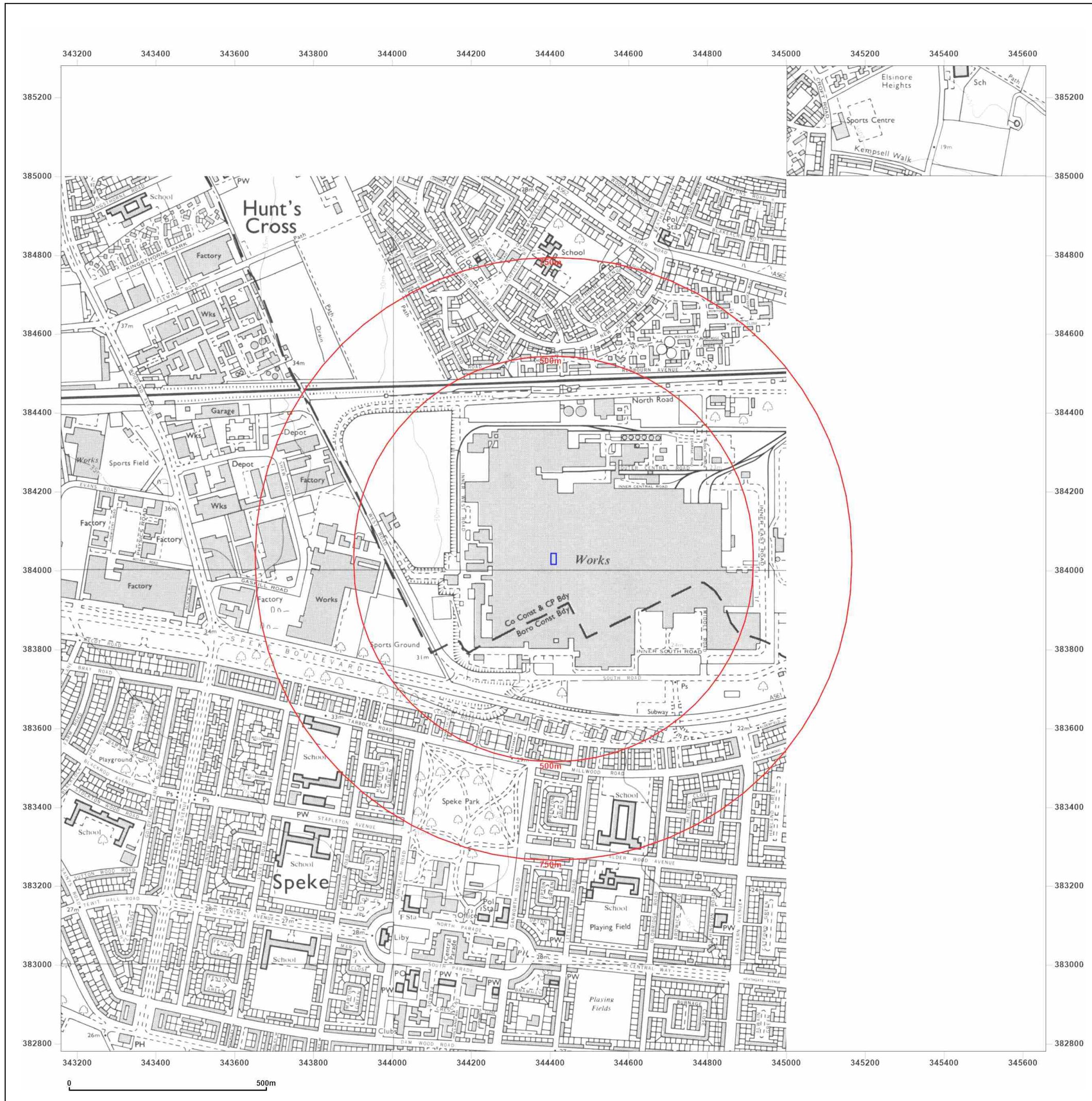


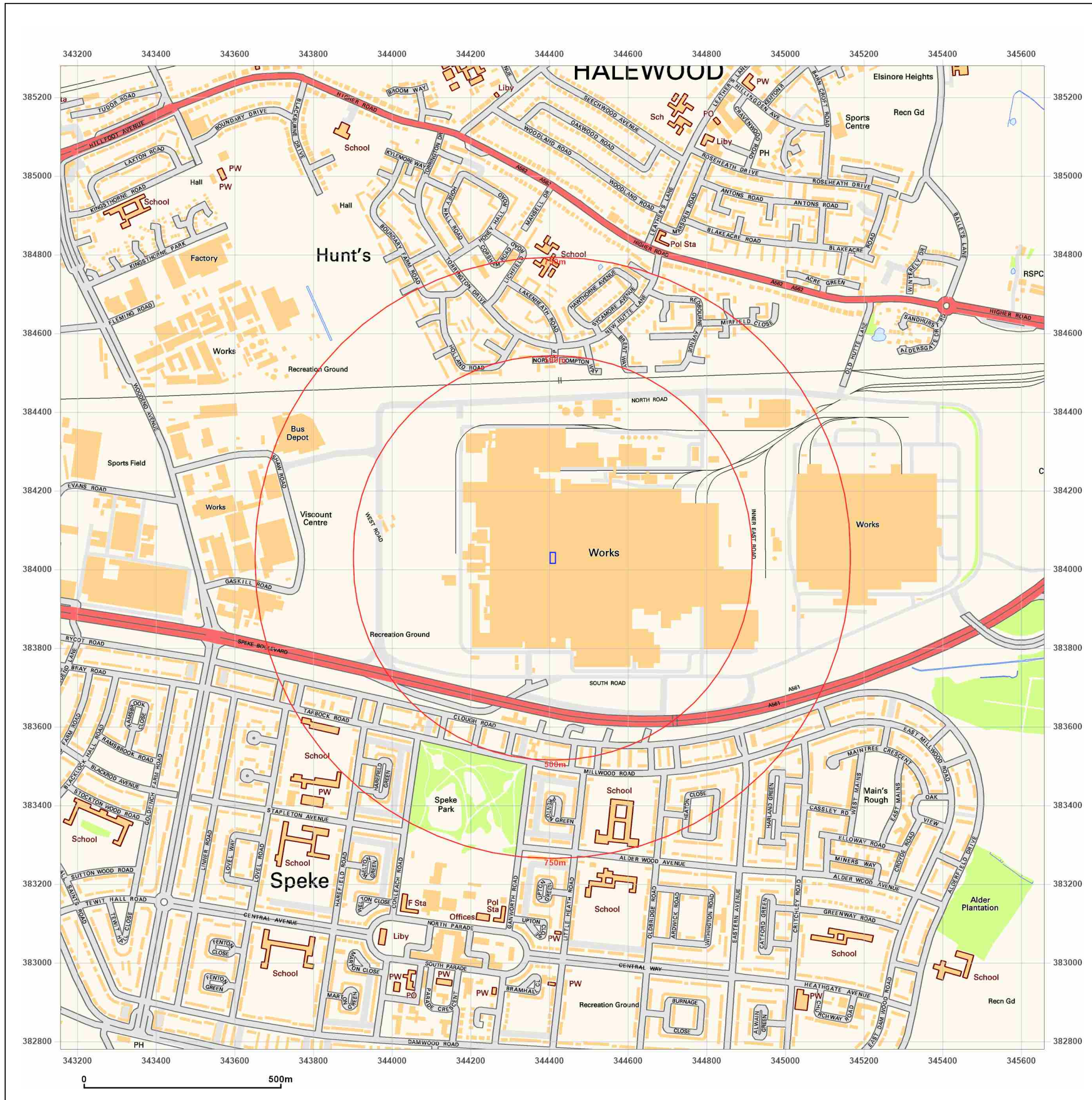
Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





EMAPSITE™

Site Details:

unspecified

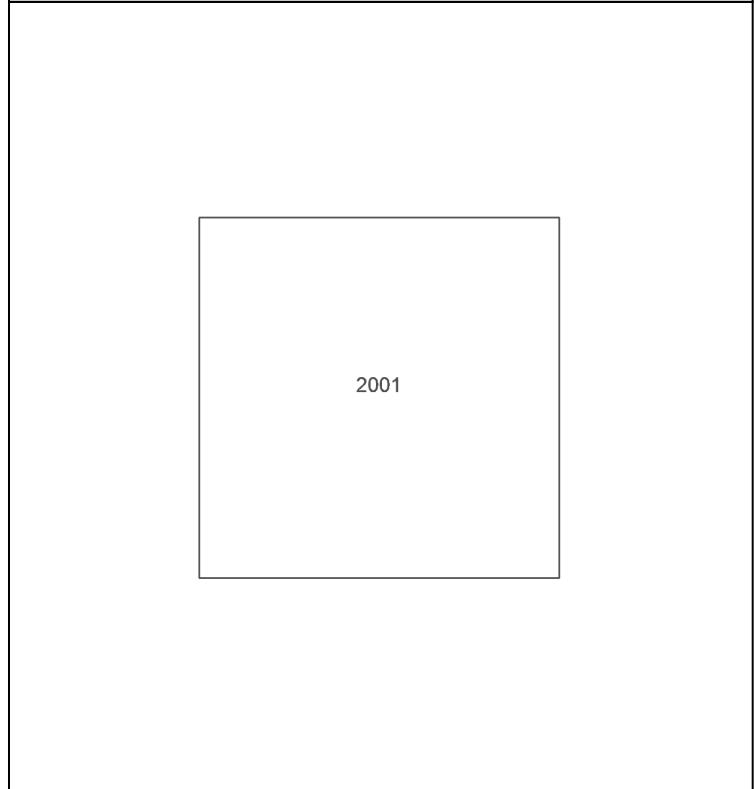
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



Produced by
Groundsure Insights
www.groundsure.com

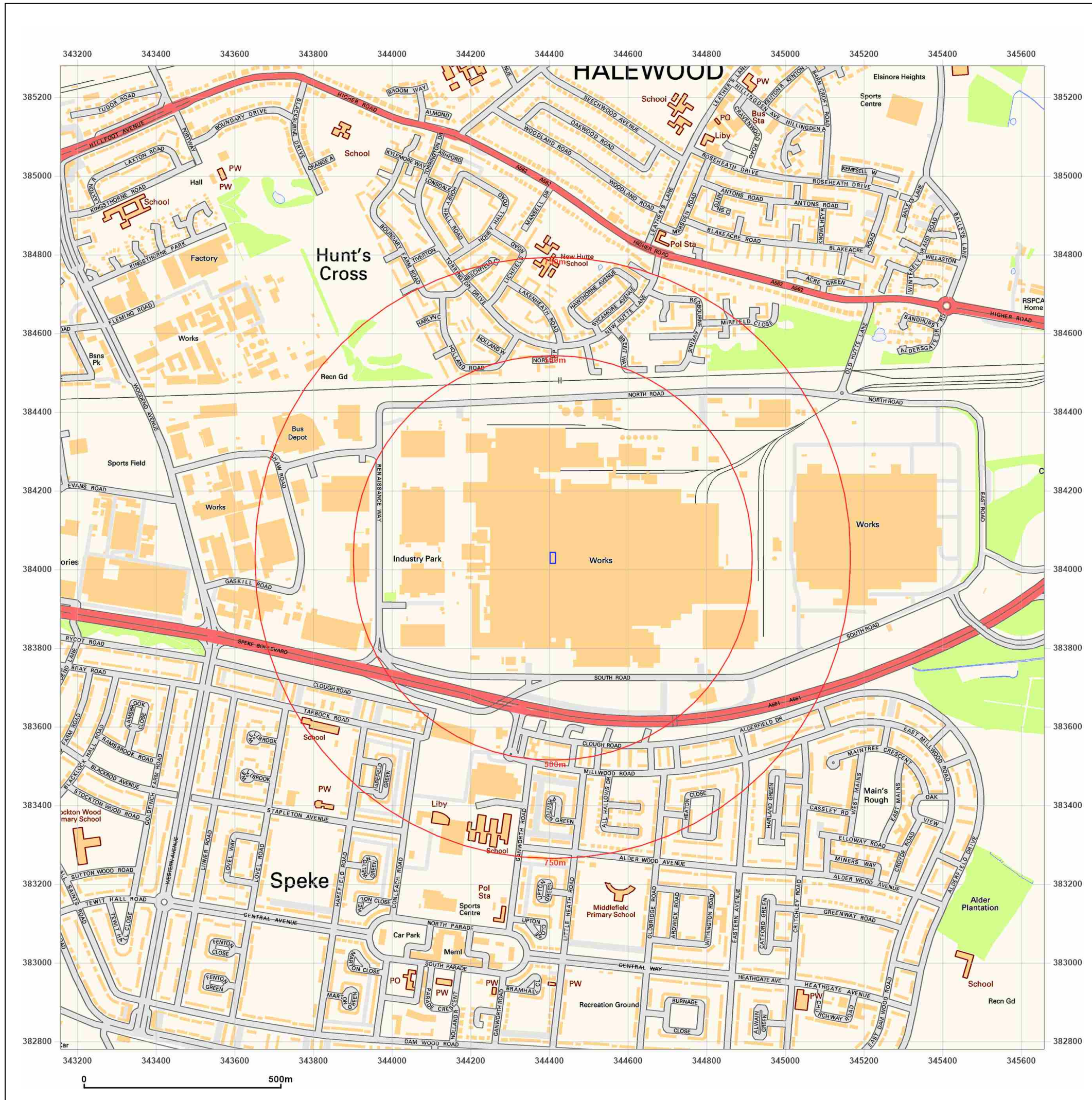


Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



EMAPSITE™

Site Details:

unspecified

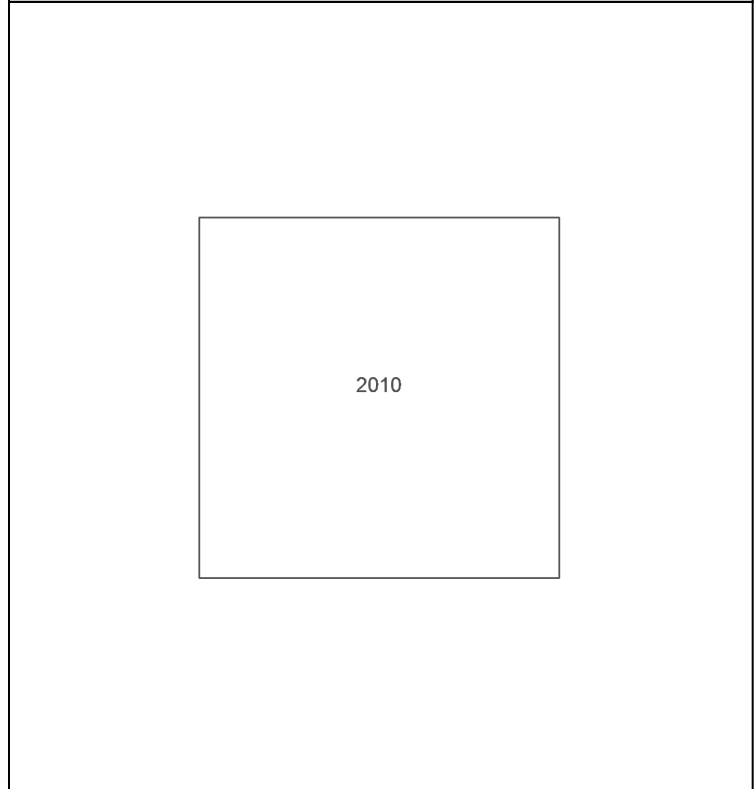
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



Produced by
Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

unspecified

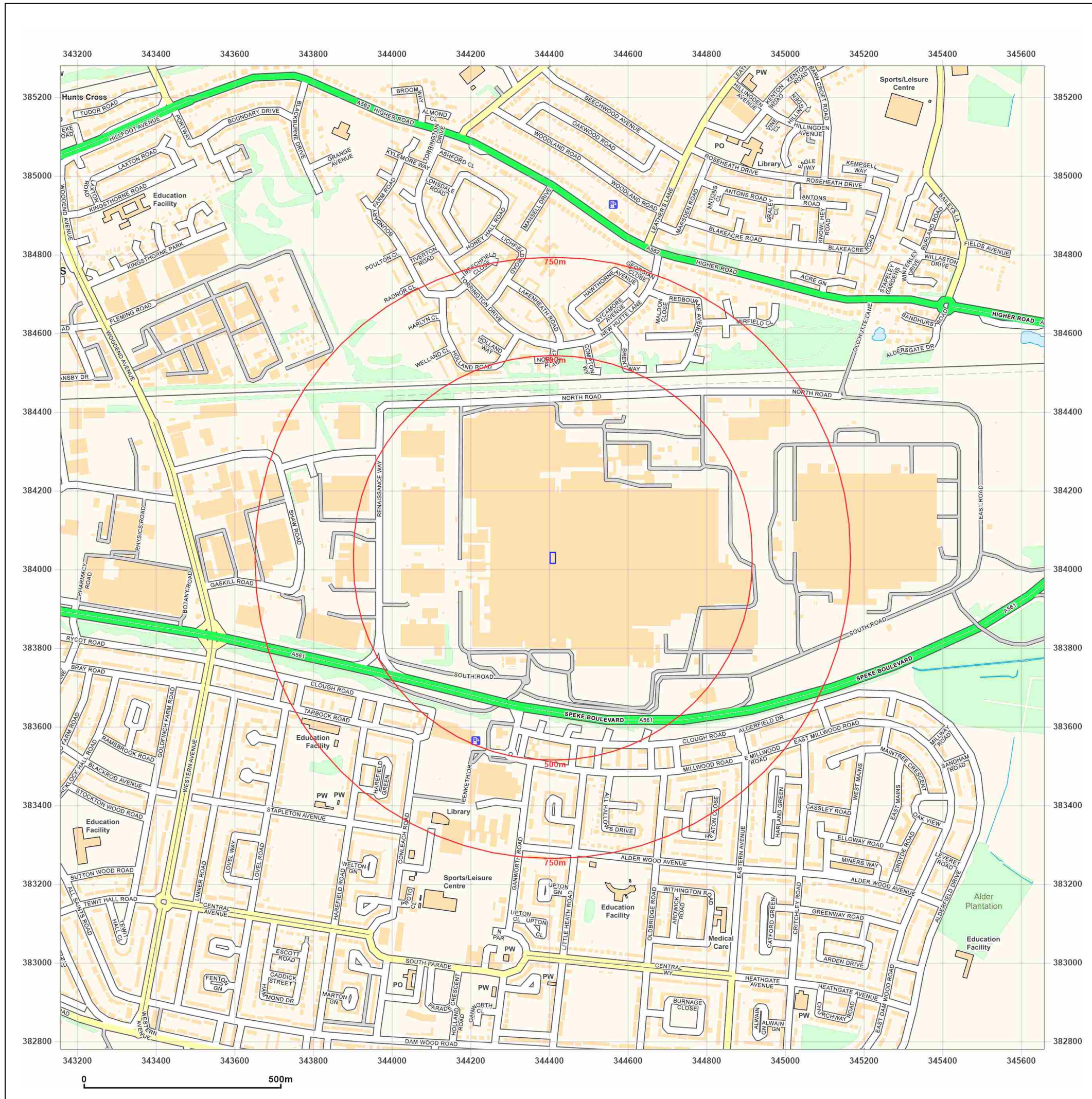
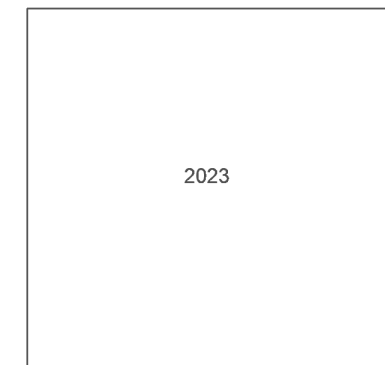
Client Ref: EMS_907867_1124573
Report Ref: EMS-907867_1158020
Grid Ref: 344408, 384030

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



Produced by
Groundsure Insights
www.groundsure.com



Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2019 Ordnance Survey 100035207

Production date: 16 November 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

