

# PHASE 1 DESK STUDY

Site

**FRIARS GARTH, THE PARADE, EPSOM,  
SURREY KT18 5DH**

Client

**LATCHMERE PROPERTIES LTD**

Consulting Engineer

**NYE SAUNDERS**

Report Ref

**20/11876/KJC**

Issued

**JULY 2020**



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DOCUMENT CONTROL			
Report Title	Phase 1 Desk Study		
Contract	The Parade, Epsom		
Report Reference	20/11876/KJC		
Client	Latchmere Properties Ltd		
Prepared by	<b>K J Clark</b> BSc Hons Director		
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This Report is prepared for the specific purpose stated and in relation to the development proposals or usage indicated to Albury S.I. Limited at the time of preparation. The recommendations should not be used for adjacent schemes and may not be appropriate for alternative proposals.

The recommendations made and opinions expressed in this Report are based on the strata conditions revealed by the fieldworks as indicated on the exploratory records, together with an assessment of the data from in situ and laboratory tests. No liability can be accepted for conditions which have not been revealed by the fieldworks, for example, between exploratory positions. While this Report may offer opinions on the possible configuration of strata, both between the excavations and below the maximum depth achieved by the investigation, these comments are for guidance only and no liability can be accepted for their accuracy. The data obtained relate to the conditions which are relevant at the time of the investigation.

The groundwater observations entered on exploratory records are those noted at the time of the investigation. The normal rate of progress does not usually permit the recording of any equilibrium water level for any one water strike. It should be noted that groundwater levels are prone to seasonal variation and to changes in local drainage conditions. The word 'none' indicates that groundwater was sealed off by the borehole casing or that no water was observed in the exploratory hole upon completion.

REPORT REF: 20/11876/KJC  
CONTRACT: THE PARADE, EPSOM

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# **1 INTRODUCTION**

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Albury SI Ltd have been approached by Nye Saunders on behalf of the client, to complete a desk-based land contamination assessment at the property under consideration.

## **1.1 Objectives**

The Desk Study comprises a review of the readily available geological, historical and environmental sources for information about the site, together with a walkover survey of the area. This includes the commissioning of an Enviro+Geo Insight report supplied by Groundsure Ltd. This report presents the findings of the Desk Study together with an outline Conceptual Site Model and preliminary risk assessment, based upon identified potential sources of contamination which may pose a significant risk to receptors or end-users of the site.

In preparing this report reference has been made to relevant guidance which includes the 'Investigation of potentially contaminated sites. Code of Practice.' (BSI, 2011) and the EA CLR 11 report 'The Model Procedures for the Management of Land Contamination' (DEFRA and EA, 2004) and updated Land Contamination: risk management (LCRM) guidance (2019).

## **1.2 Proposed Development**

The Client proposes to redevelop the site by the construction of a mixed use structure comprising a commercial office at ground with residential apartments above at Friars Garth, The Parade, Epsom ("the site").

# **2 THE SITE**

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## **2.1 Site Location**

The site covers an area of approximately 700m<sup>2</sup>, is roughly rectangular in shape and is located at Ordnance Survey National grid reference 520963, 160690. The site is occupied by a two storey detached house. There are residential properties to the south, east and west with The Parade on the northern boundary. Epsom & Ewell Borough Council offices are north of The Parade.

## 2.2 Site Topography

A topographical survey supplied by the Client indicates that the site generally falls gently from south to the north. The recent OS mapping indicates levels within Ashley Road to the west of the site rising from 46.9mOD at the junction of The Parade to 48.5mOD to the south west of the site.

## 3 SITE HISTORY

### 3.1 Historical Mapping

The historical Ordnance Survey mapping contained within the Groundsure Data report has been reviewed. The maps reviewed are included in Appendix 1.

Table 1 - Historical Mapping Summary			
Date	Source Scale	Relevant Information	
		On Site	Off Site
1840	1:2500	The site is part of a formal garden, presumably associated with a property to the west.	The Parade is already present at this time, with open land to its north. Oakwood Lodge is present to the east. A pump is recorded to the east of the house. A detached property is recorded to the west. A fish pond is noted 70m south west of the site within formal gardens. Two old gravel pits are shown 200m to the south east of the site. A pond is also noted 230m south west. Three circular structures are noted east and south of the site.
1868	1:2500	No significant change.	No significant change.
1896	1:2500	Site remains undeveloped.	Fish pond to the south west no longer shown. Circular structure noted 50m south west. Pump and circular structure to the east no longer shown.
1913	1:2500	No significant change.	Old gravel pits to the south east are no longer shown – presumably infilled. Four large houses are now shown to the north of The Parade. Circular structure to the south now designated Fn – Fountain.
1932	1:2500	Rectangular structure now present on site resembling the current house.	No significant change. Circular structure and fountain to the south west and south no longer present. House now present to the south of the south. Picture House 95m north east.

1953	1:2500	Property is now called 'Garth'.	Small ponds are noted to the south and west within the grounds of Cressingham and The Old Pines, respectively. Town Hall is present to the north. Garage recorded 95m north east.
1961	1:2500	Property is now known as 'Friars Garth'.	Ponds no longer present.
1973	1:1250	No change.	Council offices now present to the north of The Parade.
1978	1:1250	No change.	No change.
1990	1:1250	No change.	No change.
1992	1:1250	No change.	No change.
2003	1:1250	No change.	The property to the east has been redeveloped by the Cressinghams.

\*indicates partial mapping coverage

At the time of the earliest mapping the site formed part of the grounds of a large house. The existing property first appears c1932. The site has remained unchanged.

### 3.2 Aerial Imagery

Consideration of the modern aerial imagery contained within Google Earth indicates that the site has remained unchanged since 2003.

## 4 GEOLOGY

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### 4.1 Published Geology

An examination of the 1:50,000 British Geological Survey (BGS) digital mapping and information contained within the Enviro+Geo Insight report indicate that the site is underlain by Recent River Terrace Deposits. This superficial material is underlain by the Lambeth group of Eocene age. The Thanet Formation of similar age outcrops to the south east. At significant depth the White Chalk Subgroup of Cretaceous age is present.

### 4.2 Historical Borehole Records

The records of the BGS have been reviewed and no records of any relevance have been found. The nearest lies within 200m north east which reveal superficial soils to 4.6m, resting upon the Thanet Formation which extended to 7.45m (39.3mOD). At this level the White chalk Subgroup was encountered.

### **4.3 Hydrogeology**

The site is underlain by a superficial Secondary (A) aquifer associated with the underlying River Terrace Deposits. The Lambeth Group at depth is also classed as a Secondary A aquifer. The site is underlain by a drinking water Source Protection Zone 1 – Inner catchment[SPZ 1], likely associated with the deep principal chalk aquifer at depth.

The nearest drinking water abstraction point is at East Street Waterworks Point 'A' operated by Thames Water Utilities Ltd.

### **4.4 Radon**

The Enviro+Geo Insight report indicates that the site is not in a radon affected area as less than 1% of properties are above the action level. Moreover, no protective measures as described in BRE report BR211 are necessary in the construction of new properties or extensions.

## **5 ENVIRONMENTAL SETTING**

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### **5.1 Hydrology & Flood Risk**

There are no surface water features within 250m of the site. However, there is potential for surface water flooding (1 in 30 year) and groundwater flooding (moderate).

### **5.2 Landfill Data**

There are no active or inactive registered landfill sites listed in the Enviro+Geo Insight report within 500m of the site. Old gravel pits were noted to the south but these disappear c1913 and were presumably infilled. Given the age of these features they are not considered to constitute a ground gas risk to the proposed development.

### **5.3 Recent & Current Land Use**

The site has historically been residential in nature.

### **5.4 Ecologically Sensitive Receptors**

There are no sensitive environmental or ecological receptors highlighted within the Enviro+Geo Insight report within 750m of the site.

## **6 SITE RECONNAISSANCE**

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A visit to site was made on 7<sup>th</sup> July 2020 where observations were made using the procedures outlined in CLR 2. At the time of the survey the conditions were dry and overcast.

The site comprises a typical two storey house with integral garage. A driveway crosses the front of the property. An area of rough ground is present on the western boundary. Lawned gardens are present at the rear of the property.

During the visit a number of photographs were taken which give an impression of the site at the time. These are presented as Figure 2 attached to this report. The existing site layout is presented as Figure 1.

## **7 PRELIMINARY RISK ASSESSMENT**

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### **7.1 Conceptual Site Model**

In accordance with the report CLR 11 a Conceptual Model has been prepared for this site. The model prepared for the site in tabular format below lists potential sources of contamination, identified receptors on and within the immediate vicinity of the site, together with the pathways between them. A pathway must exist for an identified source to pose a risk to a receptor, thereby forming an active pollutant linkage. The primary receptors are considered to be future residents (human health), surrounding ecology (plants and animals), controlled waters and proposed buildings.

A qualitative assessment of the risk of each potential pollutant linkage is given based upon the CIRIA guidance document 'Contaminated Land Risk Assessment: A Guide to Good Practice' (Rudland, Lancefield and Mayell, 2001). The risk is a combination of the probability or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.



Table 2 - Preliminary Conceptual Site Model			
Source(s)	Potential Pathway(s)	Receptor(s)	Risk Level
<i>ACM within fabric of existing structures</i>	Inhalation of dust	Site Workers and Neighbours	To be assessed by specialist pre-demolition survey
<i>Solid Fuel Fires - waste coal ash – heavy metals &amp; PAH</i>	Dermal Contact, Ingestion and Inhalation	Future Residents and Site Workers	Low

Due to the age of the existing houses there is potential for ACM to be present within the fabric of these structures. It will be necessary, therefore, to undertake the appropriate pre-demolition surveys to identify any potential ACM for removal prior to demolition.

The existing property is a detached residence dating from the early 1930s and has a number of chimneys. It would have been heated by coal and waste ash can be a source of trace heavy metals and PAH. Therefore, the shallow soils in any areas of soft landscaping or gardens should be tested for heavy metals and PAH compounds. Where no areas of gardens or soft landscaping is proposed, or areas will be covered by hardstanding or proposed structure, then specific investigation and testing is not envisaged.

The site is underlain by an Inner Zone SPZ, associated with the Principal Chalk Aquifer at depth. It is likely, therefore, that for any deep penetrative piling which extends to the chalk, that a specific risk assessment is prepared to assess the impact upon this controlled water resource and to satisfy the relevant regulatory bodies.

## 7.2 Geotechnical Hazards

The site is indicated as being within an area at moderate risk of shrinkable soils being present. There is a low risk of ground dissolution features associated with the chalk at substantial depth.

## REFERENCES

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## LIST OF ABBREVIATIONS

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AOD	-	Above Ordnance Datum
ACM	-	Asbestos-containing Material
AST	-	Above-ground Storage Tank
BGS	-	British Geological Survey
BH	-	Borehole
BRE	-	Building Research Establishment
BSI	-	British Standards Institution
BS	-	British Standard
C4SL	-	Category Four Screening Level
CIRIA	-	Construction Industry Research and Information Association
CP	-	Cable Percussive
DPH	-	Dynamic Probing Heavy
DPSH	-	Dynamic Probing Super Heavy
EA	-	Environment Agency
GAC	-	Generic Assessment Criteria
LL	-	Liquid Limit
mAOD	-	Metres Above Ordnance Datum
mBGL	-	Metres Below Ground Level
mOD	-	Metres Ordnance Datum
OS	-	Ordnance Survey
PAH	-	Polycyclic Aromatic Hydrocarbons
PCB	-	Polychlorinated Biphenyl
PID	-	Photo Ionisation Detector
PL	-	Plastic Limit
PSD	-	Particle Size Distribution
SGV	-	Soil Guideline Value
SOM	-	Soil Organic Matter
SPT	-	Standard Penetration Test
SPZ	-	Source Protection Zone
SVOC	-	Semi-volatile Organic Compounds
TPH	-	Total Petroleum Hydrocarbon
UST	-	Underground Storage Tank
UXB	-	Unexploded Bombs
UXO	-	Unexploded Ordnance
VOC	-	Volatile Organic Compound

**FIGURE 1**

**SITE LAYOUT PLAN**



**Legend:**

-  Borehole Location
-  Trial Pit Location
-  Site Boundary

Title: Site Layout Plan

Dwg No: 20/11876/1

Drawn by: KJC

Client: Latchmere Properties Ltd

Contract: The Parade, Epsom

Job Ref: 20/11876/KJC

Scale: NTS

Revision: 0

Issue Date: 21/07/2020



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**FIGURE 2**

**SITE PHOTOGRAPHS**



Title: Site Photographs  
Dwg No: 20/11876/2  
Drawn by: KJC

Client: Latchmere Properties Ltd  
Contract: The Parade, Epsom

Job Ref: 20/11876/KJC  
Scale: NTS  
Revision: 0  
Issue Date: 13/07/2020



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**APPENDIX 1**

**GROUNDSURE DATA**



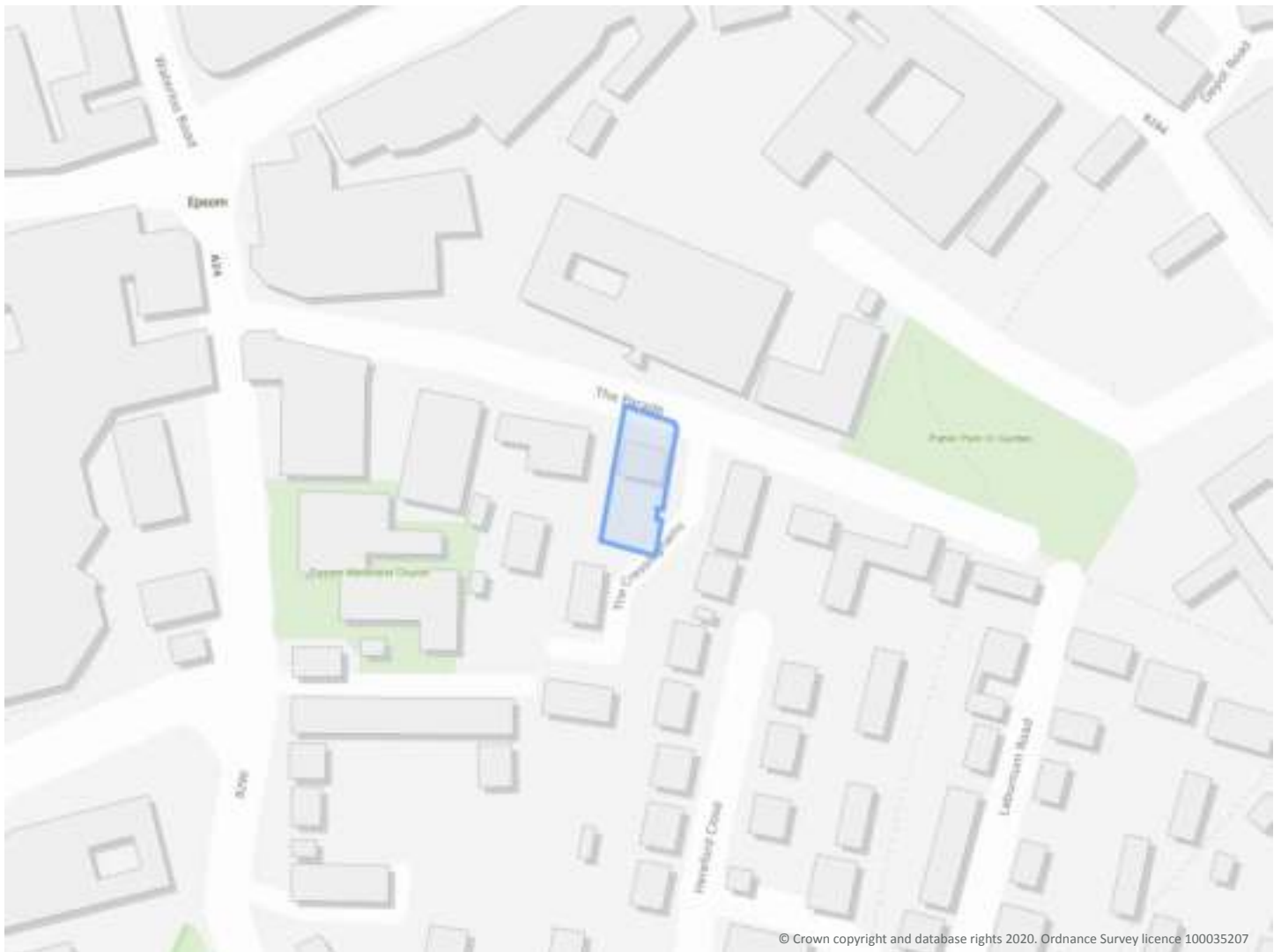
FRIARS GARTH, THE PARADE, EPSOM SURREY , KT18 5DH

**Order Details**

**Date:** 06/07/2020  
**Your ref:** 20\_11876\_KJC\_13696  
**Our Ref:** GS-6844110  
**Client:** Albury S.I. Ltd

**Site Details**

**Location:** 520963 160690  
**Area:** 0.07 ha  
**Authority:** [Epsom and Ewell Borough Council](#)



**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.13

[groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>14</b>	<b>1.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	26	93	-
<b>19</b>	<b>1.2</b>	<b><u>Historical tanks</u></b>	0	2	10	85	-
<b>23</b>	<b>1.3</b>	<b><u>Historical energy features</u></b>	0	0	15	37	-
25	1.4	Historical petrol stations	0	0	0	0	-
<b>25</b>	<b>1.5</b>	<b><u>Historical garages</u></b>	0	0	9	25	-
27	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
<b>28</b>	<b>2.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	35	125	-
<b>34</b>	<b>2.2</b>	<b><u>Historical tanks</u></b>	0	2	10	119	-
<b>39</b>	<b>2.3</b>	<b><u>Historical energy features</u></b>	0	0	29	84	-
44	2.4	Historical petrol stations	0	0	0	0	-
<b>44</b>	<b>2.5</b>	<b><u>Historical garages</u></b>	0	0	20	33	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
47	3.1	Active or recent landfill	0	0	0	0	-
47	3.2	Historical landfill (BGS records)	0	0	0	0	-
48	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
48	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
48	3.5	Historical waste sites	0	0	0	0	-
<b>48</b>	<b>3.6</b>	<b><u>Licensed waste sites</u></b>	0	0	0	1	-
<b>49</b>	<b>3.7</b>	<b><u>Waste exemptions</u></b>	0	0	1	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>50</b>	<b>4.1</b>	<b><u>Recent industrial land uses</u></b>	0	0	26	-	-
52	4.2	Current or recent petrol stations	0	0	0	0	-
52	4.3	Electricity cables	0	0	0	0	-
52	4.4	Gas pipelines	0	0	0	0	-
53	4.5	Sites determined as Contaminated Land	0	0	0	0	-



<b>53</b>	<b>4.6</b>	<b><u>Control of Major Accident Hazards (COMAH)</u></b>	0	0	0	1	-
53	4.7	Regulated explosive sites	0	0	0	0	-
<b>53</b>	<b>4.8</b>	<b><u>Hazardous substance storage/usage</u></b>	0	0	0	3	-
54	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
54	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
<b>54</b>	<b>4.11</b>	<b><u>Licensed pollutant release (Part A(2)/B)</u></b>	0	0	2	2	-
55	4.12	Radioactive Substance Authorisations	0	0	0	0	-
55	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
55	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
56	4.15	Pollutant release to public sewer	0	0	0	0	-
56	4.16	List 1 Dangerous Substances	0	0	0	0	-
56	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>56</b>	<b>4.18</b>	<b><u>Pollution Incidents (EA/NRW)</u></b>	0	0	0	2	-
57	4.19	Pollution inventory substances	0	0	0	0	-
57	4.20	Pollution inventory waste transfers	0	0	0	0	-
57	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>58</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>59</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>61</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
<b>62</b>	<b>5.4</b>	<b><u>Groundwater vulnerability- soluble rock risk</u></b>	Identified (within 0m)				
62	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>63</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	0	0	0	5
65	5.7	Surface water abstractions	0	0	0	0	0
<b>65</b>	<b>5.8</b>	<b><u>Potable abstractions</u></b>	0	0	0	0	5
<b>66</b>	<b>5.9</b>	<b><u>Source Protection Zones</u></b>	1	0	0	1	-
66	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
67	6.1	Water Network (OS MasterMap)	0	0	0	-	-



67	6.2	<b><u>Surface water features</u></b>	0	0	1	-	-
68	6.3	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
68	6.4	<b><u>WFD Surface water bodies</u></b>	0	0	0	-	-
69	6.5	WFD Groundwater bodies	0	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
70	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
70	7.2	Historical Flood Events	0	0	0	-	-
70	7.3	Flood Defences	0	0	0	-	-
70	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
71	7.5	Flood Storage Areas	0	0	0	-	-
72	7.6	Flood Zone 2	None (within 50m)				
72	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding					
73	8.1	<b><u>Surface water flooding</u></b>	1 in 30 year, Greater than 1.0m (within 50m)				

Page	Section	Groundwater flooding					
75	9.1	<b><u>Groundwater flooding</u></b>	Moderate (within 50m)				

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
76	10.1	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	0	0	0	2
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	<b><u>National Nature Reserves (NNR)</u></b>	0	0	0	0	1
78	10.6	<b><u>Local Nature Reserves (LNR)</u></b>	0	0	0	0	1
78	10.7	<b><u>Designated Ancient Woodland</u></b>	0	0	0	0	1
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	<b><u>Green Belt</u></b>	0	0	0	0	2
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
<b>80</b>	<b>10.16</b>	<b><u>Nitrate Vulnerable Zones</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>82</b>	<b>10.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>83</b>	<b>10.18</b>	<b><u>SSSI Units</u></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
86	11.1	World Heritage Sites	0	0	0	-	-
87	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
87	11.3	National Parks	0	0	0	-	-
<b>87</b>	<b>11.4</b>	<b><u>Listed Buildings</u></b>	<b>0</b>	<b>1</b>	<b>20</b>	<b>-</b>	<b>-</b>
<b>88</b>	<b>11.5</b>	<b><u>Conservation Areas</u></b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>-</b>	<b>-</b>
89	11.6	Scheduled Ancient Monuments	0	0	0	-	-
89	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>90</b>	<b>12.1</b>	<b><u>Agricultural Land Classification</u></b>	<b>Urban (within 250m)</b>				
91	12.2	Open Access Land	0	0	0	-	-
91	12.3	Tree Felling Licences	0	0	0	-	-
91	12.4	Environmental Stewardship Schemes	0	0	0	-	-
91	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
92	13.1	Priority Habitat Inventory	0	0	0	-	-
92	13.2	Habitat Networks	0	0	0	-	-
92	13.3	Open Mosaic Habitat	0	0	0	-	-
92	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
<b>93</b>	<b>14.1</b>	<b><u>10k Availability</u></b>	<b>Identified (within 500m)</b>				
<b>94</b>	<b>14.2</b>	<b><u>Artificial and made ground (10k)</u></b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>-</b>
<b>96</b>	<b>14.3</b>	<b><u>Superficial geology (10k)</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>



97	14.4	Landslip (10k)	0	0	0	0	-
<b>98</b>	<b>14.5</b>	<b><u>Bedrock geology (10k)</u></b>	1	1	1	1	-
99	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>100</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
<b>101</b>	<b>15.2</b>	<b><u>Artificial and made ground (50k)</u></b>	0	0	0	4	-
102	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<b>103</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	0	0	1	-
<b>104</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
104	15.6	Landslip (50k)	0	0	0	0	-
104	15.7	Landslip permeability (50k)	None (within 50m)				
<b>105</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	1	1	4	-
<b>106</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
106	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<b>107</b>	<b>16.1</b>	<b><u>BGS Boreholes</u></b>	0	0	9	-	-
Page	Section	Natural ground subsidence					
<b>109</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Moderate (within 50m)				
<b>110</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Very low (within 50m)				
<b>111</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Negligible (within 50m)				
<b>112</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Very low (within 50m)				
<b>113</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Very low (within 50m)				
<b>114</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
116	18.1	Natural cavities	0	0	0	0	-
<b>117</b>	<b>18.2</b>	<b><u>BritPits</u></b>	0	0	0	1	-
<b>117</b>	<b>18.3</b>	<b><u>Surface ground workings</u></b>	0	0	12	-	-
118	18.4	Underground workings	0	0	0	0	0
118	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<b>118</b>	<b>18.6</b>	<b><u>Non-coal mining</u></b>	1	1	1	0	6
<b>119</b>	<b>18.7</b>	<b><u>Mining cavities</u></b>	0	0	0	1	6
120	18.8	JPB mining areas	None (within 0m)				
120	18.9	Coal mining	None (within 0m)				
120	18.10	Brine areas	None (within 0m)				
121	18.11	Gypsum areas	None (within 0m)				
121	18.12	Tin mining	None (within 0m)				
121	18.13	Clay mining	None (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Radon</b>					
<b>122</b>	<b>19.1</b>	<b><u>Radon</u></b>	Less than 1% (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Soil chemistry</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
<b>123</b>	<b>20.1</b>	<b><u>BGS Estimated Background Soil Chemistry</u></b>	1	5	-	-	-
123	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
124	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
<b>Page</b>	<b>Section</b>	<b>Railway infrastructure and projects</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
125	21.1	Underground railways (London)	0	0	0	-	-
125	21.2	Underground railways (Non-London)	0	0	0	-	-
126	21.3	Railway tunnels	0	0	0	-	-
<b>126</b>	<b>21.4</b>	<b><u>Historical railway and tunnel features</u></b>	0	0	22	-	-
127	21.5	Royal Mail tunnels	0	0	0	-	-
127	21.6	Historical railways	0	0	0	-	-
<b>127</b>	<b>21.7</b>	<b><u>Railways</u></b>	0	0	13	-	-
128	21.8	Crossrail 1	0	0	0	0	-
<b>128</b>	<b>21.9</b>	<b><u>Crossrail 2</u></b>	0	0	0	12	-
129	21.10	HS2	0	0	0	0	-

## Recent aerial photograph



Capture Date: 29/06/2019

Site Area: 0.07ha





## Recent site history - 2013 aerial photograph



Capture Date: 20/04/2013

Site Area: 0.07ha



## Recent site history - 2010 aerial photograph



Capture Date: 25/09/2010

Site Area: 0.07ha



## Recent site history - 2006 aerial photograph



Capture Date: 10/06/2006

Site Area: 0.07ha



## Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999

Site Area: 0.07ha



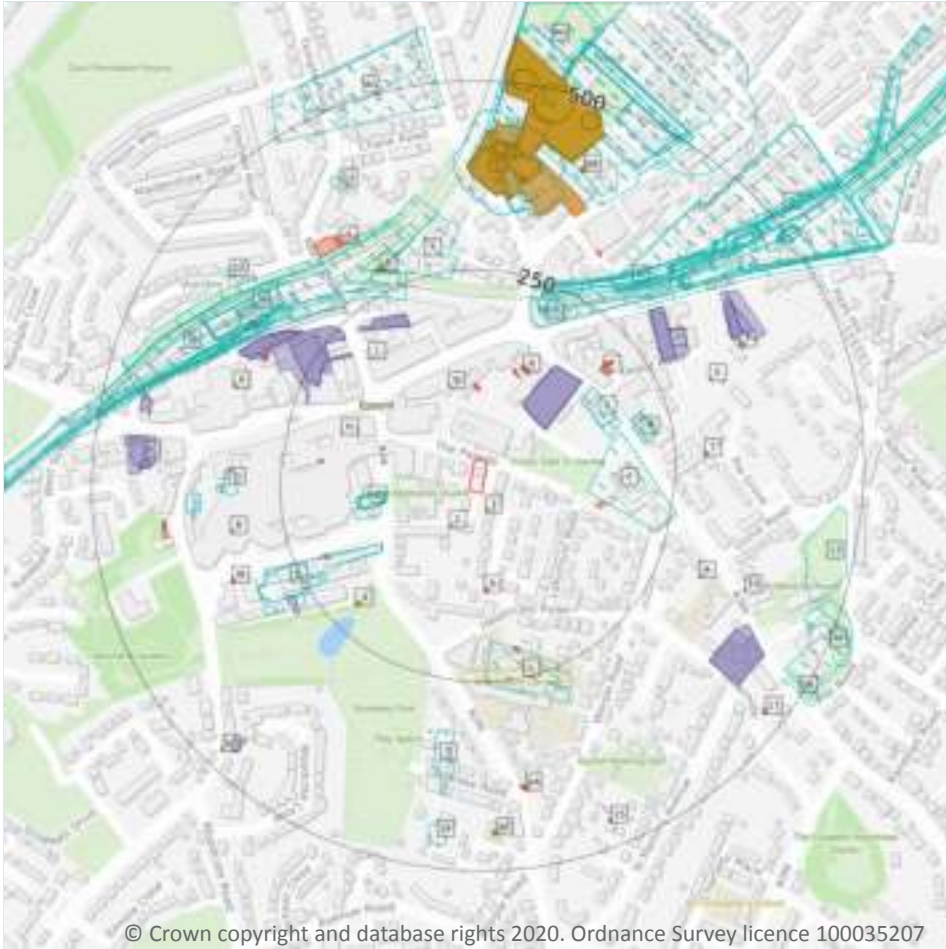
## OS MasterMap site plan



Site Area: 0.07ha



# 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

## 1.1 Historical industrial land uses

**Records within 500m** **119**

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 14**

ID	Location	Land use	Dates present	Group ID
C	111m W	Police Station	1866	2294395

ID	Location	Land use	Dates present	Group ID
C	113m W	Police Station	1897 - 1912	2187527
C	113m W	Police Station	1895	2246117
C	116m W	Police Station	1912	2268854
E	134m SW	Brewery	1866	2284650
E	136m SW	Brewery	1895	2215823
F	138m E	Police Station	1992	2162622
G	150m NE	Fire Station	1938	2128134
G	155m NE	Fire Engine Station	1932	2140086
J	191m N	Railway Land	1932	2265376
L	197m S	Unspecified Pit	1895 - 1897	2196052
M	198m E	Fire Station	1962 - 1992	2186430
M	201m E	Fire Engine Station	1938	2140087
3	202m NE	Railway Buildings	1866	2163316
J	212m N	Railway Station	1897	2226227
J	212m N	Railway Land	1897 - 1912	2228290
O	217m N	Railway Sidings	1866	2231314
E	222m SW	Brewery	1897	2214102
J	227m N	Railway Sidings	1938	2246089
N	230m NW	Railway Sidings	1962 - 1992	2280930
O	235m N	Railway Sidings	1912	2186706
O	236m N	Railway Sidings	1912	2174474
O	236m N	Railway Sidings	1938	2235025
O	239m N	Railway Sidings	1932	2241442
5	240m N	Brick Field	1866	2146689
N	244m NW	Railway Sidings	1938	2244810
N	256m NW	Railway Station	1932	2258673
N	264m NW	Railway Sidings	1912	2185110
N	275m NW	Railway Station	1938	2219263



ID	Location	Land use	Dates present	Group ID
J	282m NE	Railway Station	1912	2245044
J	284m NE	Railway Station	1912	2187386
J	290m NE	Railway Station	1895	2172562
J	294m NE	Railway Building	1938	2249488
J	307m NE	Unspecified Commercial/Industrial	1938	2130639
Q	307m W	Smithy	1912	2275150
N	308m NW	Railway Station	1897	2183162
N	314m NW	Railway Station	1912	2190282
T	317m S	Unspecified Pit	1866	2124739
U	322m NW	Railway Sidings	1938	2225532
U	322m NW	Railway Sidings	1932	2252417
V	324m N	Gas Works	1895 - 1897	2179932
N	325m NW	Railway Station	1962 - 1992	2212897
Q	325m W	Smithy	1912	2255020
N	326m NW	Railway Sidings	1866 - 1895	2198918
N	329m NW	Railway Station	1895	2248985
V	330m N	Unspecified Commercial/Industrial	1938	2185806
V	330m N	Unspecified Commercial/Industrial	1932	2216943
N	335m NW	Railway Station	1866	2255194
V	346m N	Railway Sidings	1938	2292704
V	346m N	Railway Sidings	1932	2263741
J	347m NE	Railway Sidings	1932 - 1938	2202768
J	347m NE	Railway Sidings	1912	2288052
J	347m NE	Railway Sidings	1897 - 1912	2281680
J	348m NE	Railway Sidings	1895	2233175
J	350m NE	Railway Building	1866	2293664
V	352m N	Gas Work	1866	2143412
N	353m NW	Railway Building	1912	2147969





ID	Location	Land use	Dates present	Group ID
U	353m NW	Railway Sidings	1897	2263943
Q	356m W	Smithy	1866	2215207
Q	359m W	Smithy	1895	2207103
U	359m NW	Railway Sidings	1912	2210906
Q	363m W	Smithy	1897	2214613
V	371m NE	Nurseries	1897	2265975
V	371m N	Gasometers	1897	2138337
V	377m N	Unspecified Ground Workings	1932	2133302
V	380m N	Unspecified Tank	1962 - 1965	2281175
V	381m N	Unspecified Tanks	1932 - 1938	2250090
V	383m N	Gasometer	1895	2139746
V	383m N	Unspecified Tanks	1938	2229226
V	384m NE	Nurseries	1895	2207276
J	391m NE	Railway Station	1866	2182702
11	392m NW	Hospital	1973 - 1992	2233653
V	396m N	Unspecified Tanks	1912	2188122
N	398m NW	Railway Building	1962 - 1992	2190333
12	401m NW	Unspecified Tank	1895	2154157
V	402m N	Gasometer	1866	2207181
V	404m N	Gasometer	1866	2255431
V	404m N	Gasometer	1895	2276118
V	407m N	Gasometer	1895	2199690
J	420m NE	Railway Building	1866	2274119
J	423m NE	Railway Sidings	1965	2239012
J	423m NE	Railway Sidings	1962	2243841
V	431m NE	Nursery	1912	2233262
J	433m NE	Railway Building	1938	2287515
J	433m NE	Railway Building	1912	2290123



ID	Location	Land use	Dates present	Group ID
13	433m E	Grave Yard	1866	2145662
V	435m NE	Unspecified Works	1962 - 1992	2192416
14	440m S	Unspecified Pit	1866	2124738
J	449m NE	Railway Building	1895	2234083
J	452m NE	Railway Building	1912	2221510
V	459m N	Unspecified Tank	1962 - 1965	2170594
AF	459m E	Unspecified Pit	1895	2124736
V	460m NE	Water Works	1895	2277414
V	461m N	Unspecified Tanks	1973 - 1992	2208422
J	462m NE	Railway Sidings	1897	2230511
V	464m NE	Telephone Exchange	1932 - 1938	2242045
V	464m NE	Telephone Exchange	1938	2234919
AG	466m N	Brick Field	1866	2146690
AF	466m E	Unspecified Ground Workings	1897	2133305
16	468m SE	Unspecified Ground Workings	1897	2133306
J	470m NE	Railway Sidings	1866	2227366
J	471m NE	Railway Sidings	1912	2267399
J	474m NE	Railway Sidings	1932	2176854
J	475m NE	Railway Building	1897	2241664
V	483m N	Water Works	1912	2257689
J	485m NE	Railway Building	1912	2233561
J	486m NE	Railway Building	1895	2197804
J	487m NE	Railway Building	1932 - 1965	2276353
AH	487m N	Nurseries	1897	2205024
J	489m NE	Railway Building	1938	2209364
J	489m NE	Railway Building	1912	2263876
V	490m N	Unspecified Tank	1912 - 1938	2260099
V	492m N	Unspecified Tank	1962 - 1965	2202640



ID	Location	Land use	Dates present	Group ID
V	493m N	Unspecified Tank	1912	2190757
AG	494m N	Sand Pit	1866	2131812
AH	495m N	Nursery	1912	2293430
V	496m NE	Water Works	1932	2271058
V	497m NE	Water Works	1938	2287299
V	498m NE	Water Works	1938	2250125

This data is sourced from Ordnance Survey / Groundsure.

## 1.2 Historical tanks

**Records within 500m**

**97**

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 14**

ID	Location	Land use	Dates present	Group ID
1	21m S	Unspecified Tank	1896	362322
2	50m SW	Unspecified Tank	1896	362308
B	100m N	Tank or Trough	1867	384512
B	100m N	Tank or Trough	1868	391487
B	101m NW	Tank or Trough	1868	409578
B	101m NW	Tank or Trough	1867	411290
A	132m NE	Tank or Trough	1867	382521
A	132m NE	Tank or Trough	1868	399338
H	177m W	Tank or Trough	1868	398565
H	177m W	Tank or Trough	1867	402024
I	190m NW	Tank or Trough	1867	391367
I	190m NW	Tank or Trough	1868	403949



ID	Location	Land use	Dates present	Group ID
N	262m NW	Unspecified Tank	1952	402300
N	262m NW	Unspecified Tank	1952	384559
6	277m NW	Tanks	1932	375111
O	309m NE	Tank or Trough	1867	392478
O	309m NE	Tank or Trough	1868	394956
R	309m E	Unspecified Tank	1868 - 1932	391629
R	309m E	Unspecified Tank	1867	398655
8	317m W	Unspecified Tank	1973	362309
S	317m E	Unspecified Tank	1913	362323
O	318m N	Tank or Trough	1867	392106
O	318m N	Tank or Trough	1868	404137
T	320m S	Unspecified Tank	1952	383068
T	321m S	Unspecified Tank	1952	395360
9	327m W	Tanks	1973	375113
S	330m E	Unspecified Tank	1932	362324
W	331m W	Unspecified Tank	1992 - 1999	386590
O	332m NE	Tank or Trough	1868	384018
O	332m NE	Tank or Trough	1867	387611
W	332m W	Unspecified Tank	1989	403576
V	333m N	Gas Works	1913	400315
V	349m N	Gas Works	1896	403235
V	351m N	Gas Works	1868	381774
V	365m N	Tanks	1932	375110
V	367m N	Unspecified Tank	1952	394118
V	367m N	Unspecified Tank	1952	408499
10	369m E	Unspecified Tank	1896	362310
V	370m N	Unspecified Tank	1974	387412
V	370m N	Tanks	1985 - 1986	385778



ID	Location	Land use	Dates present	Group ID
V	370m N	Unspecified Tank	1967	399932
V	370m N	Tanks	1983	401314
V	370m N	Unspecified Tank	1952	386215
V	371m N	Unspecified Tank	1952	411212
V	374m N	Tanks	1983	385368
V	374m N	Tanks	1932	375088
V	375m N	Tanks	1993	408262
V	376m N	Tanks	1913	375087
V	380m N	Gas Holder	1952	398390
V	381m N	Tanks	1932	404598
V	381m N	Gasometer	1896	373843
V	383m N	Gasometers	1913	374366
V	386m N	Tanks	1932	375085
V	394m N	Tanks	1896	391696
V	395m N	Unspecified Tank	1952	387165
V	396m N	Unspecified Tank	1952	388932
V	396m N	Tanks	1913	375092
V	399m N	Tanks	1913	375086
V	401m N	Unspecified Tank	1896	362325
V	401m N	Gasometer	1896	381796
V	403m N	Gasometer	1868	411049
V	403m N	Gasometer	1868 - 1896	385611
V	403m N	Tanks	1913	375091
V	403m N	Gasholder Station	1967 - 1983	383525
V	403m N	Unspecified Tank	1952	396370
V	403m N	Unspecified Tank	1952	383524
V	404m N	Gas Holder Station	1985 - 1986	391769
V	404m N	Unspecified Tank	1952	404995



ID	Location	Land use	Dates present	Group ID
V	405m N	Unspecified Tank	1952	388410
V	406m N	Gasometer	1913	396318
V	408m N	Tanks	1952	389843
Q	408m W	Tank or Trough	1867	391850
Q	408m W	Tank or Trough	1868	403752
V	412m N	Gas Holder Station	1974	400387
V	413m N	Gasholder Station	1993	388049
V	416m N	Unspecified Tank	1952	389583
V	417m N	Gasometer	1913	373841
V	428m N	Tanks	1913	375093
AE	446m S	Unspecified Tank	1896	409013
AE	447m S	Unspecified Tank	1952 - 1986	406797
V	456m N	Gasholder	1983	392679
V	457m N	Gas Holder	1985 - 1986	388467
V	457m N	Gasholder	1974 - 1993	400854
V	457m N	Gasholder	1967	381399
V	460m N	Gas Holder	1985 - 1986	384225
V	461m N	Gasholder	1967 - 1993	390420
V	461m N	Unspecified Tank	1952	400017
15	463m S	Unspecified Tank	1896 - 1932	398535
AD	473m SW	Tank or Trough	1867	384604
AD	473m SW	Tank or Trough	1868	401360
V	477m N	Tanks	1932	375090
V	479m N	Tanks	1932	375089
V	491m N	Unspecified Tank	1932	390087
V	492m N	Unspecified Tank	1913	381676
V	492m N	Gasholder	1967 - 1993	386392
V	492m N	Unspecified Tank	1952	399246



ID	Location	Land use	Dates present	Group ID
V	492m N	Gas Holder	1985 - 1986	403328

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.3 Historical energy features

<b>Records within 500m</b>	<b>52</b>
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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 14**

ID	Location	Land use	Dates present	Group ID
B	90m N	Electricity Substation	1992 - 1999	264935
B	90m N	Electricity Substation	1973 - 1989	272857
A	120m N	Electricity Substation	1990 - 1992	283079
A	124m N	Electricity Substation	1953	263183
D	124m S	Electricity Substation	1973 - 1999	260791
D	125m S	Electricity Substation	1987 - 1989	283481
A	129m NE	Electricity Substation	1967	242421
F	152m E	Electricity Substation	1967 - 1992	262551
K	194m NE	Electricity Substation	1992	254538
H	197m W	Electricity Substation	1973 - 1987	276397
K	203m NE	Electricity Substation	1967	256119
E	204m SW	Electricity Substation	1973 - 1987	274733
4	206m SW	Electricity Substation	1992 - 1999	288798
L	207m S	Electricity Substation	1992	242422
L	210m S	Electricity Substation	1989	264685
7	290m E	Electricity Substation	1992	242423
N	303m NW	Electricity Substation	1992 - 1999	258310



ID	Location	Land use	Dates present	Group ID
N	304m NW	Electricity Substation	1973 - 1989	272941
O	311m NE	Electricity Substation	1967 - 1992	287122
X	331m NW	Electricity Substation	1987	242420
X	331m NW	Electricity Substation	1952	262760
V	333m N	Gas Works	1913	292078
V	347m N	Electricity Substation	1967 - 1986	270344
V	347m N	Electricity Substation	1974 - 1993	279856
V	349m N	Gas Works	1868 - 1896	283238
Y	369m NE	Electricity Substation	1967 - 1992	274604
V	380m N	Gas Holder	1952	288138
V	381m N	Gasometer	1896	251325
V	383m N	Gasometers	1913	251801
AA	390m S	Electricity Substation	1970	270469
AA	390m S	Electricity Substation	1989 - 1992	288710
V	401m N	Gasometer	1896	272735
Q	403m W	Electricity Substation	1973	262507
V	403m N	Gasometer	1868	286811
V	403m N	Gasometer	1868 - 1896	268560
V	403m N	Gasholder Station	1983 - 1993	282058
Q	404m W	Electricity Substation	1987 - 1999	261200
V	404m N	Gas Holder Station	1985 - 1986	288508
AB	404m N	Electricity Substation	1983 - 1986	291507
AB	405m N	Electricity Substation	1993	269495
V	406m N	Gasometer	1913	265312
V	412m N	Gas Holder Station	1974	277476
V	412m N	Gasholder Station	1967	268486
V	417m N	Gasometer	1913	251323
V	456m N	Gasholder	1983	279247





ID	Location	Land use	Dates present	Group ID
V	457m N	Gas Holder	1985 - 1986	281730
V	457m N	Gasholder	1967 - 1993	276174
V	460m N	Gas Holder	1985 - 1986	267765
V	461m N	Gasholder	1967 - 1993	278854
17	470m SE	Electricity Substation	1970 - 1992	272265
V	492m N	Gasholder	1967 - 1993	263325
V	492m N	Gas Holder	1985 - 1986	283436

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

<b>Records within 500m</b>	<b>0</b>
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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

<b>Records within 500m</b>	<b>34</b>
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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'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	85m NE	Garage	1992	79276
A	86m NE	Garage	1990	74548
A	86m NE	Garage	1953 - 1967	81819
I	195m NW	Garage	1987 - 1999	82001



ID	Location	Land use	Dates present	Group ID
I	195m NW	Garage	1952 - 1961	83399
I	196m NW	Garage	1952 - 1973	82899
N	211m NW	Garage	1973	76212
N	211m NW	Garage	1952 - 1962	85674
N	227m NW	Garage	1952 - 1961	80562
P	269m NE	Garage	1967	79307
P	269m NE	Garage	1953	79365
P	270m NE	Garage	1953 - 1961	82216
E	271m SW	Garages	1952	74119
N	283m NW	Garage	1952 - 1961	83940
N	283m NW	Garage	1973	75401
N	284m NW	Garage	1952	76576
N	284m NW	Garage	1962	76938
N	285m NW	Garage	1987 - 1989	80435
Y	364m NE	Garages	1953	76400
Y	365m NE	Garage	1990	76557
Y	366m NE	Garage	1967	77775
Y	366m NE	Garages	1953 - 1961	86202
Z	374m SE	Garage	1953	76915
Z	375m SE	Garage	1970	78853
Z	375m SE	Garage	1953 - 1961	84078
Y	381m NE	Garage	1992	76375
AC	417m W	Garage	1962 - 1973	83829
AC	422m W	Garage	1962	75826
AC	422m W	Garage	1952 - 1961	80417
AC	423m W	Garage	1952	75300
AC	429m W	Garage	1961	79114
U	432m W	Garage	1952	74646



ID	Location	Land use	Dates present	Group ID
U	434m W	Garage	1952	77994
AD	444m SW	Garage	1961	85635

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

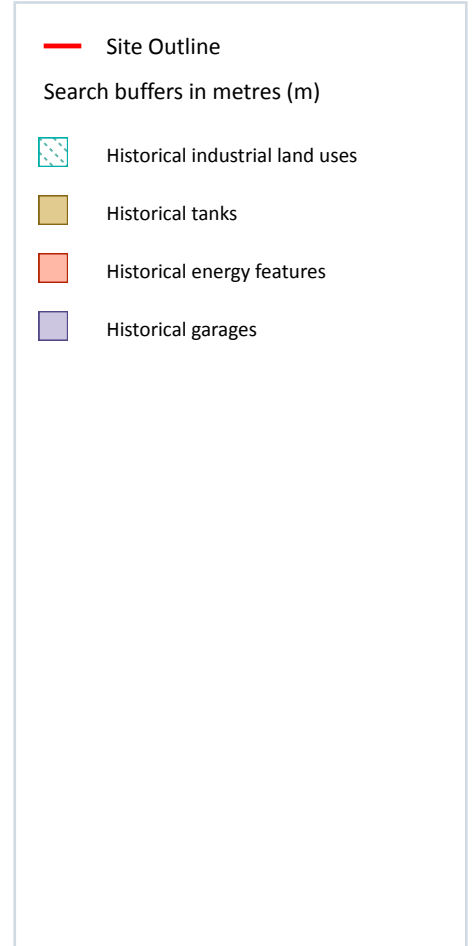
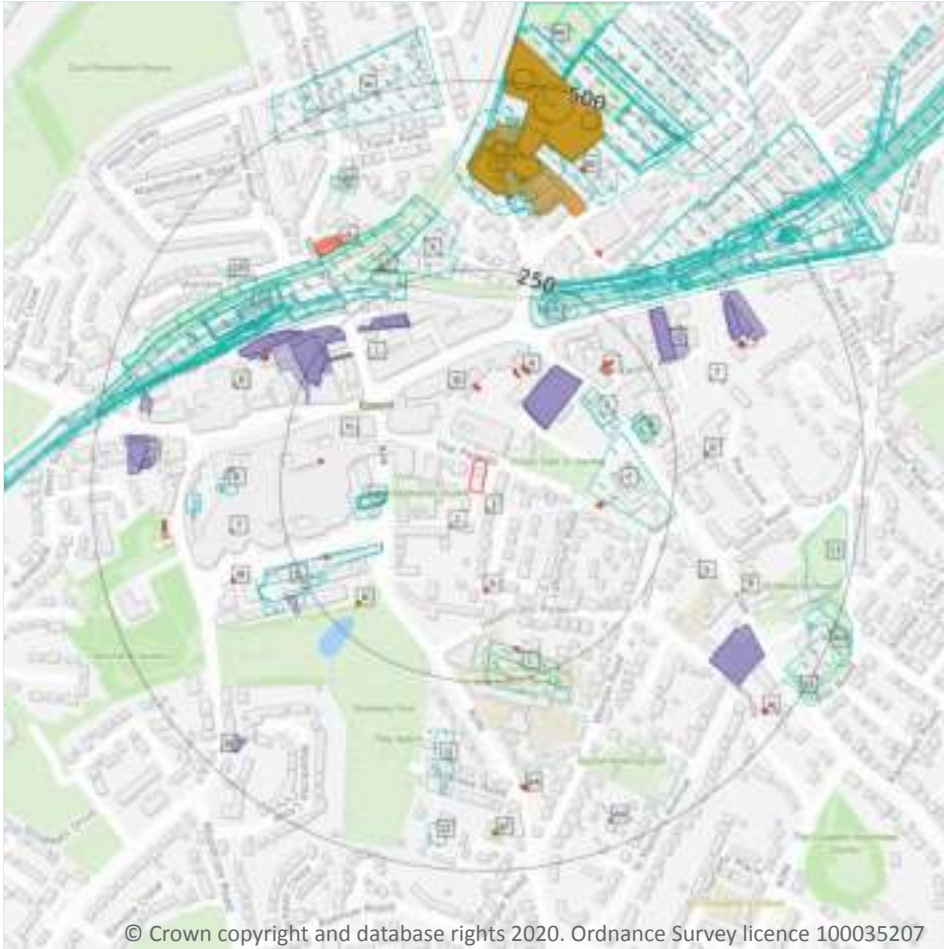
**Records within 500m**

**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

160

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 28**

ID	Location	Land Use	Date	Group ID
C	111m W	Police Station	1866	2294395
C	113m W	Police Station	1912	2187527
C	113m W	Police Station	1895	2246117

ID	Location	Land Use	Date	Group ID
C	116m W	Police Station	1912	2268854
C	119m W	Police Station	1897	2187527
E	134m SW	Brewery	1866	2284650
E	136m SW	Brewery	1895	2215823
F	138m E	Police Station	1992	2162622
G	150m NE	Fire Station	1938	2128134
G	155m NE	Fire Engine Station	1932	2140086
J	191m N	Railway Land	1932	2265376
L	197m S	Unspecified Pit	1895	2196052
M	198m E	Fire Station	1992	2186430
M	198m E	Fire Station	1973	2186430
M	198m E	Fire Station	1965	2186430
M	198m E	Fire Station	1962	2186430
M	201m E	Fire Engine Station	1938	2140087
3	202m NE	Railway Buildings	1866	2163316
J	212m N	Railway Station	1897	2226227
J	212m N	Railway Land	1897	2228290
L	214m S	Unspecified Pit	1897	2196052
P	217m N	Railway Sidings	1866	2231314
E	222m SW	Brewery	1897	2214102
J	226m N	Railway Land	1912	2228290
J	227m N	Railway Sidings	1938	2246089
O	230m NW	Railway Sidings	1992	2280930
O	230m NW	Railway Sidings	1973	2280930
O	230m NW	Railway Sidings	1965	2280930
O	230m NW	Railway Sidings	1962	2280930
P	235m N	Railway Sidings	1912	2186706
P	236m N	Railway Sidings	1938	2235025



ID	Location	Land Use	Date	Group ID
P	236m N	Railway Sidings	1912	2174474
P	239m N	Railway Sidings	1932	2241442
4	240m N	Brick Field	1866	2146689
O	244m NW	Railway Sidings	1938	2244810
O	256m NW	Railway Station	1932	2258673
O	264m NW	Railway Sidings	1912	2185110
O	275m NW	Railway Station	1938	2219263
J	282m NE	Railway Station	1912	2245044
J	284m NE	Railway Station	1912	2187386
O	284m NW	Railway Station	1938	2219263
J	290m NE	Railway Station	1895	2172562
J	294m NE	Railway Building	1938	2249488
J	307m NE	Unspecified Commercial/Industrial	1938	2130639
R	307m W	Smithy	1912	2275150
O	308m NW	Railway Station	1897	2183162
O	314m NW	Railway Station	1912	2190282
U	317m S	Unspecified Pit	1866	2124739
O	322m NW	Railway Sidings	1932	2252417
O	322m NW	Railway Sidings	1938	2225532
V	324m N	Gas Works	1895	2179932
O	325m NW	Railway Station	1992	2212897
O	325m NW	Railway Station	1973	2212897
O	325m NW	Railway Station	1965	2212897
O	325m NW	Railway Station	1962	2212897
R	325m W	Smithy	1912	2255020
O	326m NW	Railway Station	1912	2190282
O	326m NW	Railway Sidings	1866	2198918
O	329m NW	Railway Station	1895	2248985



ID	Location	Land Use	Date	Group ID
V	330m N	Unspecified Commercial/Industrial	1938	2185806
V	330m N	Unspecified Commercial/Industrial	1932	2216943
V	334m N	Unspecified Commercial/Industrial	1938	2185806
O	335m NW	Railway Station	1866	2255194
V	335m N	Gas Works	1897	2179932
V	346m N	Railway Sidings	1938	2292704
V	346m N	Railway Sidings	1932	2263741
V	346m N	Railway Sidings	1938	2292704
J	347m NE	Railway Sidings	1938	2202768
J	347m NE	Railway Sidings	1912	2288052
J	347m NE	Railway Sidings	1897	2281680
J	348m NE	Railway Sidings	1895	2233175
J	350m NE	Railway Building	1866	2293664
V	352m N	Gas Work	1866	2143412
O	353m NW	Railway Sidings	1897	2263943
O	353m NW	Railway Building	1912	2147969
O	354m NW	Railway Sidings	1895	2198918
R	356m W	Smithy	1866	2215207
J	357m NE	Railway Sidings	1912	2281680
R	359m W	Smithy	1895	2207103
O	359m NW	Railway Sidings	1912	2210906
J	361m NE	Railway Sidings	1932	2202768
R	363m W	Smithy	1897	2214613
V	371m NE	Nurseries	1897	2265975
V	371m N	Gasometers	1897	2138337
V	377m N	Unspecified Ground Workings	1932	2133302
V	380m N	Unspecified Tank	1965	2281175
V	380m N	Unspecified Tank	1962	2281175



ID	Location	Land Use	Date	Group ID
V	381m N	Unspecified Tanks	1932	2250090
V	383m N	Gasometer	1895	2139746
V	383m N	Unspecified Tanks	1938	2229226
V	384m N	Unspecified Tanks	1938	2250090
V	384m NE	Nurseries	1895	2207276
J	391m NE	Railway Station	1866	2182702
AB	392m NW	Hospital	1992	2233653
AB	392m NW	Hospital	1973	2233653
V	396m N	Unspecified Tanks	1912	2188122
O	398m NW	Railway Building	1992	2190333
O	398m NW	Railway Building	1973	2190333
O	398m NW	Railway Building	1965	2190333
O	398m NW	Railway Building	1962	2190333
10	401m NW	Unspecified Tank	1895	2154157
V	402m N	Gasometer	1866	2207181
V	404m N	Gasometer	1866	2255431
V	404m N	Gasometer	1895	2276118
V	407m N	Gasometer	1895	2199690
J	420m NE	Railway Building	1866	2274119
J	423m NE	Railway Sidings	1965	2239012
J	423m NE	Railway Sidings	1962	2243841
V	431m NE	Nursery	1912	2233262
J	433m NE	Railway Building	1938	2287515
J	433m NE	Railway Building	1912	2290123
11	433m E	Grave Yard	1866	2145662
V	434m NE	Nursery	1912	2233262
V	435m NE	Unspecified Works	1992	2192416
V	435m NE	Unspecified Works	1973	2192416





ID	Location	Land Use	Date	Group ID
V	435m NE	Unspecified Works	1965	2192416
V	435m NE	Unspecified Works	1962	2192416
12	440m S	Unspecified Pit	1866	2124738
J	449m NE	Railway Building	1895	2234083
J	452m NE	Railway Building	1912	2221510
V	459m N	Unspecified Tank	1965	2170594
V	459m N	Unspecified Tank	1962	2170594
AG	459m E	Unspecified Pit	1895	2124736
V	460m NE	Water Works	1895	2277414
V	461m N	Unspecified Tanks	1992	2208422
V	461m N	Unspecified Tanks	1973	2208422
J	462m NE	Railway Sidings	1897	2230511
V	464m NE	Telephone Exchange	1932	2242045
V	464m NE	Telephone Exchange	1938	2234919
AI	466m N	Brick Field	1866	2146690
V	466m NE	Telephone Exchange	1938	2242045
AG	466m E	Unspecified Ground Workings	1897	2133305
13	468m SE	Unspecified Ground Workings	1897	2133306
J	470m NE	Railway Sidings	1866	2227366
J	471m NE	Railway Sidings	1912	2267399
J	474m NE	Railway Sidings	1932	2176854
J	475m NE	Railway Building	1897	2241664
V	483m N	Water Works	1912	2257689
V	484m N	Water Works	1912	2257689
J	485m NE	Railway Building	1912	2233561
J	486m NE	Railway Building	1895	2197804
J	487m NE	Railway Building	1938	2276353
AK	487m N	Nurseries	1897	2205024



ID	Location	Land Use	Date	Group ID
J	488m NE	Railway Building	1932	2276353
J	489m NE	Railway Building	1938	2209364
J	489m NE	Railway Building	1912	2263876
V	490m N	Unspecified Tank	1932	2260099
V	492m N	Unspecified Tank	1938	2260099
V	492m N	Unspecified Tank	1965	2202640
V	492m N	Unspecified Tank	1962	2202640
V	493m N	Unspecified Tank	1912	2190757
J	494m NE	Railway Building	1965	2276353
J	494m NE	Railway Building	1962	2276353
V	494m N	Unspecified Tank	1938	2260099
V	494m N	Unspecified Tank	1912	2260099
AI	494m N	Sand Pit	1866	2131812
AK	495m N	Nursery	1912	2293430
V	496m NE	Water Works	1932	2271058
V	497m NE	Water Works	1938	2287299
V	498m NE	Water Works	1938	2250125

This data is sourced from Ordnance Survey / Groundsure.

## 2.2 Historical tanks

<b>Records within 500m</b>	<b>131</b>
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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 28**

ID	Location	Land Use	Date	Group ID
1	21m S	Unspecified Tank	1896	362322
2	50m SW	Unspecified Tank	1896	362308
B	100m N	Tank or Trough	1867	384512



ID	Location	Land Use	Date	Group ID
B	100m N	Tank or Trough	1868	391487
B	101m NW	Tank or Trough	1867	411290
B	101m NW	Tank or Trough	1868	409578
A	132m NE	Tank or Trough	1867	382521
A	132m NE	Tank or Trough	1868	399338
H	177m W	Tank or Trough	1867	402024
H	177m W	Tank or Trough	1868	398565
I	190m NW	Tank or Trough	1867	391367
I	190m NW	Tank or Trough	1868	403949
O	262m NW	Unspecified Tank	1952	402300
O	262m NW	Unspecified Tank	1952	384559
5	277m NW	Tanks	1932	375111
P	309m NE	Tank or Trough	1867	392478
P	309m NE	Tank or Trough	1868	394956
S	309m E	Unspecified Tank	1932	391629
S	309m E	Unspecified Tank	1867	398655
S	309m E	Unspecified Tank	1868	391629
7	317m W	Unspecified Tank	1973	362309
T	317m E	Unspecified Tank	1913	362323
P	318m N	Tank or Trough	1867	392106
P	318m N	Tank or Trough	1868	404137
U	320m S	Unspecified Tank	1952	383068
U	321m S	Unspecified Tank	1952	395360
8	327m W	Tanks	1973	375113
T	330m E	Unspecified Tank	1932	362324
W	331m W	Unspecified Tank	1992	386590
W	331m W	Unspecified Tank	1999	386590
P	332m NE	Tank or Trough	1867	387611



ID	Location	Land Use	Date	Group ID
P	332m NE	Tank or Trough	1868	384018
W	332m W	Unspecified Tank	1989	403576
V	333m N	Gas Works	1913	400315
V	349m N	Gas Works	1896	403235
V	351m N	Gas Works	1868	381774
V	351m N	Gas Works	1868	381774
V	365m N	Tanks	1932	375110
V	367m N	Unspecified Tank	1952	394118
V	367m N	Unspecified Tank	1952	408499
9	369m E	Unspecified Tank	1896	362310
V	370m N	Unspecified Tank	1974	387412
V	370m N	Tanks	1983	401314
V	370m N	Unspecified Tank	1967	399932
V	370m N	Tanks	1985	385778
V	370m N	Tanks	1986	385778
V	370m N	Tanks	1986	385778
V	370m N	Unspecified Tank	1952	386215
V	371m N	Unspecified Tank	1952	411212
V	374m N	Tanks	1983	385368
V	374m N	Tanks	1932	375088
V	375m N	Tanks	1993	408262
V	376m N	Tanks	1913	375087
V	380m N	Gas Holder	1952	398390
V	380m N	Gas Holder	1952	398390
V	381m N	Tanks	1932	404598
V	381m N	Gasometer	1896	373843
V	383m N	Gasometers	1913	374366
V	386m N	Tanks	1932	375085



ID	Location	Land Use	Date	Group ID
V	394m N	Tanks	1896	391696
V	395m N	Unspecified Tank	1952	387165
V	396m N	Unspecified Tank	1952	388932
V	396m N	Tanks	1913	375092
V	399m N	Tanks	1913	375086
V	401m N	Unspecified Tank	1896	362325
V	401m N	Gasometer	1896	381796
V	403m N	Gasometer	1868	411049
V	403m N	Gasometer	1868	411049
V	403m N	Gasometer	1896	385611
V	403m N	Tanks	1913	375091
V	403m N	Gasholder Station	1983	383525
V	403m N	Unspecified Tank	1952	396370
V	403m N	Unspecified Tank	1952	383524
V	404m N	Gas Holder Station	1985	391769
V	404m N	Gas Holder Station	1986	391769
V	404m N	Gas Holder Station	1986	391769
V	404m N	Gasometer	1868	385611
V	404m N	Gasometer	1868	385611
V	404m N	Unspecified Tank	1952	404995
V	405m N	Unspecified Tank	1952	388410
V	406m N	Gasometer	1913	396318
V	408m N	Tanks	1952	389843
V	408m N	Tanks	1952	389843
R	408m W	Tank or Trough	1867	391850
R	408m W	Tank or Trough	1868	403752
V	412m N	Gas Holder Station	1974	400387
V	412m N	Gasholder Station	1967	383525



ID	Location	Land Use	Date	Group ID
V	413m N	Gasholder Station	1993	388049
V	416m N	Unspecified Tank	1952	389583
V	416m N	Unspecified Tank	1952	389583
V	417m N	Gasometer	1913	373841
V	428m N	Tanks	1913	375093
AF	446m S	Unspecified Tank	1896	409013
AF	447m S	Unspecified Tank	1961	406797
AF	447m S	Unspecified Tank	1952	406797
AF	447m S	Unspecified Tank	1969	406797
AF	447m S	Unspecified Tank	1986	406797
V	456m N	Gasholder	1983	392679
V	457m N	Gas Holder	1985	388467
V	457m N	Gas Holder	1986	388467
V	457m N	Gas Holder	1986	388467
V	457m N	Gas Holder	1986	388467
V	457m N	Gasholder	1993	400854
V	457m N	Gasholder	1974	400854
V	457m N	Gasholder	1967	381399
V	460m N	Gas Holder	1985	384225
V	460m N	Gas Holder	1986	384225
V	460m N	Gas Holder	1986	384225
V	461m N	Unspecified Tank	1952	400017
V	461m N	Gasholder	1983	390420
V	461m N	Gasholder	1967	390420
V	461m N	Gasholder	1993	390420
V	461m N	Gasholder	1974	390420
V	461m N	Unspecified Tank	1952	400017
AH	463m S	Unspecified Tank	1896	398535
AH	463m S	Unspecified Tank	1913	398535



ID	Location	Land Use	Date	Group ID
AH	463m S	Unspecified Tank	1932	398535
AE	473m SW	Tank or Trough	1867	384604
AE	473m SW	Tank or Trough	1868	401360
V	477m N	Tanks	1932	375090
V	479m N	Tanks	1932	375089
V	491m N	Unspecified Tank	1932	390087
V	492m N	Unspecified Tank	1913	381676
V	492m N	Gasholder	1993	386392
V	492m N	Unspecified Tank	1952	399246
V	492m N	Gasholder	1983	386392
V	492m N	Gasholder	1967	386392
V	492m N	Gas Holder	1985	403328
V	492m N	Gas Holder	1986	403328
V	492m N	Gas Holder	1986	403328
V	492m N	Gasholder	1974	386392
V	493m N	Unspecified Tank	1952	399246

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

<b>Records within 500m</b>	<b>113</b>
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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 28**

ID	Location	Land Use	Date	Group ID
B	90m N	Electricity Substation	1992	264935
B	90m N	Electricity Substation	1999	264935
B	90m N	Electricity Substation	1973	272857
B	90m N	Electricity Substation	1987	272857



ID	Location	Land Use	Date	Group ID
B	90m N	Electricity Substation	1989	272857
A	120m N	Electricity Substation	1990	283079
A	120m N	Electricity Substation	1992	283079
A	124m N	Electricity Substation	1953	263183
D	124m S	Electricity Substation	1992	260791
D	124m S	Electricity Substation	1999	260791
D	125m S	Electricity Substation	1973	260791
A	125m N	Electricity Substation	1953	263183
D	125m S	Electricity Substation	1987	283481
D	125m S	Electricity Substation	1989	283481
A	129m NE	Electricity Substation	1967	242421
F	152m E	Electricity Substation	1990	262551
F	152m E	Electricity Substation	1992	262551
F	153m E	Electricity Substation	1967	262551
K	194m NE	Electricity Substation	1992	254538
H	197m W	Electricity Substation	1973	276397
H	198m W	Electricity Substation	1987	276397
K	203m NE	Electricity Substation	1967	256119
E	204m SW	Electricity Substation	1973	274733
E	205m SW	Electricity Substation	1987	274733
N	206m SW	Electricity Substation	1992	288798
N	206m SW	Electricity Substation	1999	288798
L	207m S	Electricity Substation	1992	242422
L	210m S	Electricity Substation	1989	264685
L	210m S	Electricity Substation	1989	264685
6	290m E	Electricity Substation	1992	242423
O	303m NW	Electricity Substation	1992	258310
O	303m NW	Electricity Substation	1999	258310





ID	Location	Land Use	Date	Group ID
O	304m NW	Electricity Substation	1973	272941
O	305m NW	Electricity Substation	1987	272941
O	305m NW	Electricity Substation	1989	272941
P	311m NE	Electricity Substation	1992	287122
P	311m NE	Electricity Substation	1990	287122
P	312m NE	Electricity Substation	1967	287122
X	331m NW	Electricity Substation	1987	242420
X	331m NW	Electricity Substation	1952	262760
X	332m NW	Electricity Substation	1952	262760
V	333m N	Gas Works	1913	292078
V	347m N	Electricity Substation	1983	270344
V	347m N	Electricity Substation	1993	279856
V	347m N	Electricity Substation	1985	270344
V	347m N	Electricity Substation	1986	270344
V	347m N	Electricity Substation	1986	270344
V	347m N	Electricity Substation	1974	279856
V	348m N	Electricity Substation	1967	270344
V	349m N	Gas Works	1896	283238
V	351m N	Gas Works	1868	283238
V	351m N	Gas Works	1868	283238
Y	369m NE	Electricity Substation	1990	274604
Y	370m NE	Electricity Substation	1992	274604
Y	370m NE	Electricity Substation	1967	274604
V	380m N	Gas Holder	1952	288138
V	380m N	Gas Holder	1952	288138
V	381m N	Gasometer	1896	251325
V	383m N	Gasometers	1913	251801
AA	390m S	Electricity Substation	1970	270469



ID	Location	Land Use	Date	Group ID
AA	390m S	Electricity Substation	1992	288710
AA	391m S	Electricity Substation	1989	288710
AA	391m S	Electricity Substation	1989	288710
V	401m N	Gasometer	1896	272735
R	403m W	Electricity Substation	1973	262507
V	403m N	Gasometer	1868	286811
V	403m N	Gasometer	1868	286811
V	403m N	Gasometer	1896	268560
V	403m N	Gasholder Station	1983	282058
R	404m W	Electricity Substation	1992	261200
R	404m W	Electricity Substation	1999	261200
V	404m N	Gas Holder Station	1985	288508
V	404m N	Gas Holder Station	1986	288508
V	404m N	Gas Holder Station	1986	288508
R	404m W	Electricity Substation	1987	261200
R	404m W	Electricity Substation	1989	261200
AC	404m N	Electricity Substation	1983	291507
V	404m N	Gasometer	1868	268560
V	404m N	Gasometer	1868	268560
AC	405m N	Electricity Substation	1985	291507
AC	405m N	Electricity Substation	1986	291507
AC	405m N	Electricity Substation	1986	291507
AC	405m N	Electricity Substation	1993	269495
V	406m N	Gasometer	1913	265312
V	412m N	Gas Holder Station	1974	277476
V	412m N	Gasholder Station	1967	268486
V	413m N	Gasholder Station	1993	282058
V	417m N	Gasometer	1913	251323



ID	Location	Land Use	Date	Group ID
V	456m N	Gasholder	1983	279247
V	457m N	Gas Holder	1985	281730
V	457m N	Gas Holder	1986	281730
V	457m N	Gas Holder	1986	281730
V	457m N	Gasholder	1993	276174
V	457m N	Gasholder	1974	276174
V	457m N	Gasholder	1967	276174
V	460m N	Gas Holder	1985	267765
V	460m N	Gas Holder	1986	267765
V	460m N	Gas Holder	1986	267765
V	461m N	Gasholder	1983	278854
V	461m N	Gasholder	1967	278854
V	461m N	Gasholder	1993	278854
V	461m N	Gasholder	1974	278854
AJ	470m SE	Electricity Substation	1992	272265
AJ	471m SE	Electricity Substation	1970	272265
AJ	471m SE	Electricity Substation	1989	272265
AJ	471m SE	Electricity Substation	1989	272265
V	492m N	Gasholder	1993	263325
V	492m N	Gasholder	1983	263325
V	492m N	Gasholder	1967	263325
V	492m N	Gas Holder	1985	283436
V	492m N	Gas Holder	1986	283436
V	492m N	Gas Holder	1986	283436
V	492m N	Gasholder	1974	263325

*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

53

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'.

Features are displayed on the Past land use - un-grouped map on **page 28**

ID	Location	Land Use	Date	Group ID
A	85m NE	Garage	1992	79276
A	86m NE	Garage	1990	74548
A	86m NE	Garage	1961	81819
A	86m NE	Garage	1953	81819
A	87m NE	Garage	1953	81819
A	87m NE	Garage	1967	81819
I	195m NW	Garage	1992	82001
I	195m NW	Garage	1999	82001
I	195m NW	Garage	1961	83399
I	195m NW	Garage	1952	83399
I	196m NW	Garage	1962	82899
I	196m NW	Garage	1952	82899
I	196m NW	Garage	1973	82899
I	197m NW	Garage	1989	82001
I	197m NW	Garage	1987	82001
O	211m NW	Garage	1973	76212



ID	Location	Land Use	Date	Group ID
O	211m NW	Garage	1962	85674
O	211m NW	Garage	1952	85674
O	227m NW	Garage	1952	80562
O	227m NW	Garage	1961	80562
Q	269m NE	Garage	1967	79307
Q	269m NE	Garage	1953	79365
Q	270m NE	Garage	1961	82216
Q	270m NE	Garage	1953	82216
E	271m SW	Garages	1952	74119
O	283m NW	Garage	1961	83940
O	283m NW	Garage	1952	83940
O	283m NW	Garage	1973	75401
O	284m NW	Garage	1952	76576
O	284m NW	Garage	1962	76938
O	285m NW	Garage	1989	80435
O	285m NW	Garage	1987	80435
Y	364m NE	Garages	1953	76400
Y	365m NE	Garage	1990	76557
Y	366m NE	Garage	1967	77775
Y	366m NE	Garages	1961	86202
Y	366m NE	Garages	1953	86202
Z	374m SE	Garage	1953	76915
Z	375m SE	Garage	1970	78853
Z	375m SE	Garage	1961	84078
Z	375m SE	Garage	1953	84078
Y	381m NE	Garage	1992	76375
AD	417m W	Garage	1973	83829
AD	422m W	Garage	1962	75826



ID	Location	Land Use	Date	Group ID
AD	422m W	Garage	1961	80417
AD	422m W	Garage	1952	80417
AD	423m W	Garage	1952	75300
AD	429m W	Garage	1962	83829
AD	429m W	Garage	1961	79114
O	432m W	Garage	1952	74646
O	434m W	Garage	1952	77994
AE	444m SW	Garage	1961	85635
AE	445m SW	Garage	1961	85635

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Licensed waste sites
- Waste exemptions

### 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)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

### 3.6 Licensed waste sites

<b>Records within 500m</b>	<b>1</b>
----------------------------	----------

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

Features are displayed on the Waste and landfill map on **page 47**

ID	Location	Details		
A	418m N	Site Name: British Gas Epsom, East St, Kt17 Site Address: British Gas Plc, 29, East Street, Epsom, Surrey, KT17 1BG Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI003 EPR reference: EA/EPR/JP3893EB/S002 Operator: British Gas plc Waste Management licence No: 83176 Annual Tonnage: 30000	Issue Date: 29/07/1993 Effective Date: - Modified:: - Surrendered Date: Feb 17 2000 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered



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

### 3.7 Waste exemptions

**Records within 500m**

**4**

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.

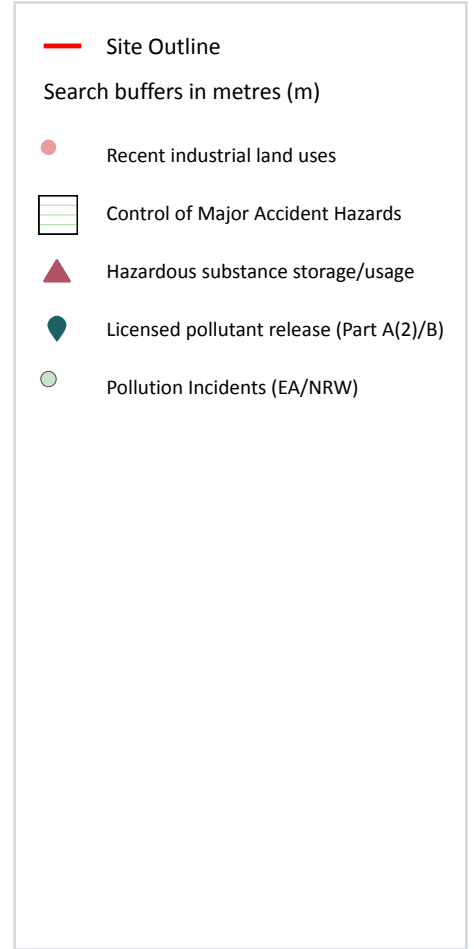
Features are displayed on the Waste and landfill map on **page 47**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	188m E	Epsom Dental Clinic Church Street EPSOM Surrey KT17 4PH	EPR/LE5742PT /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
2	285m W	46 West Square High Street Surrey KT185DB	EPR/QE5644M Z/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	394m N	Rear of 29 East Street EPSOM Surrey KT17 1BD	EPR/UF0901B Q/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
A	426m N	Rear of 29 East Street EPSOM Surrey KT17 1BD	EPR/BF0601ZJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans

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



## 4 Current industrial land use



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### 4.1 Recent industrial land uses

Records within 250m

26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 50**

ID	Location	Company	Address	Activity	Category
1	87m W	Agrobolivia	Flat 2 Windsor Court 9, Ashley Road, Epsom, Surrey, KT18 5AQ	Agricultural Machinery and Goods	Industrial Products
A	95m N	Electricity Sub Station	Surrey, KT19	Electrical Features	Infrastructure and Facilities
B	120m NW	Squire Energy Ltd	55, High Street, Epsom, Surrey, KT19 8DH	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden

ID	Location	Company	Address	Activity	Category
2	126m S	Electricity Sub Station	Surrey, KT18	Electrical Features	Infrastructure and Facilities
B	128m NW	Amplifon	73, High Street, Epsom, Surrey, KT19 8DN	Disability and Mobility Equipment	Consumer Products
3	134m W	Superglass	4, Ashley Road, Epsom, Surrey, KT18 5AX	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	138m N	A I Printers Ltd	19, High Street, Epsom, Surrey, KT19 8DD	Published Goods	Industrial Products
4	158m E	Electricity Sub Station	Surrey, KT18	Electrical Features	Infrastructure and Facilities
6	189m N	Specsavers Hearcare	24, High Street, Epsom, Surrey, KT19 8AH	Disability and Mobility Equipment	Consumer Products
C	190m NW	I Repair	70, High Street, Epsom, Surrey, KT19 8BA	Electrical Equipment Repair and Servicing	Repair and Servicing
D	194m NE	Jeppesen Heaton Ltd	17, Church Street, Epsom, Surrey, KT17 4PF	Distribution and Haulage	Transport, Storage and Delivery
7	194m E	Epsom Ambulance Station	Epsom Ambulance Station, Church Street, Epsom, Surrey, KT17 4PP	Ambulance and Medical Transportation Services	Health Support Services
8	206m SW	Electricity Sub Station	Surrey, KT18	Electrical Features	Infrastructure and Facilities
D	206m NE	Electricity Sub Station	Surrey, KT17	Electrical Features	Infrastructure and Facilities
C	208m W	Phone Touch	76, High Street, Epsom, Surrey, KT19 8BA	Electrical Equipment Repair and Servicing	Repair and Servicing
9	210m NE	Dreams Plc	1-5, Upper High Street, Epsom, Surrey, KT17 4QY	Beds and Bedding	Consumer Products
10	211m S	Electricity Sub Station	Surrey, KT18	Electrical Features	Infrastructure and Facilities
11	224m E	Epsom Fire Station	Church Street, Epsom, Surrey, KT17 4PW	Fire Brigade Stations	Central and Local Government
D	229m NE	Print Solutions	1a Kilmuir House, Depot Road, Epsom, Surrey, KT17 4RJ	Published Goods	Industrial Products
E	230m W	A B P	Global House, Ashley Avenue, Epsom, Surrey, KT18 5AD	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products



ID	Location	Company	Address	Activity	Category
E	230m W	P P L Sport & Leisure Ltd	Global House, Ashley Avenue, Epsom, Surrey, KT18 5AD	Published Goods	Industrial Products
E	230m W	Sonic Carz	Global House, Ashley Avenue, Epsom, Surrey, KT18 5AD	Airlines and Airline Services	Transport, Storage and Delivery
E	230m W	Surrey Select Executive Cars	Global House, Ashley Avenue, Epsom, Surrey, KT18 5AD	Vehicle Hire and Rental	Hire Services
12	236m N	B W S Partnership	1-3, East Street, Epsom, Surrey, KT17 1BB	Civil Engineers	Engineering Services
F	244m SW	Shopmobility	Epsom Gateway 2, Ashley Avenue, Epsom, Surrey, KT18 5AL	Disability and Mobility Equipment	Consumer Products
F	244m SW	Atkins Group	Epsom Gateway 2, Ashley Avenue, Epsom, Surrey, KT18 5AL	Civil Engineers	Engineering Services

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*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 50**

ID	Location	Company	Address	Operational status	Tier
G	345m N	British Gas	British Gas, East Street, Epsom, KT17 1BG	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

3

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 50**

ID	Location	Details	
15	363m N	Application reference number: 92/00652/HSC Application status: Historical Consent Application date: 20/11/1992 Address: 29 East Street, Epsom, Surrey, KT17 1BD	Details: Hazardous Substance Consent In Respect To 3 Gasometers. Enforcement: Data requested, not received. Date of enforcement: Data requested, not received. Comment: Data requested, not received.

ID	Location	Details	
G	480m N	Application reference number: 02/00817/HSC Application status: Approved Application date: 01/08/2002 Address: Transco, Epsom Holder Station, East Street, Epsom, Surrey, KT17 1BN	Details: Continuation Of Planning Hazardous Substance Consent Following A Change In Control Of Part Of The Land Enforcement: Data requested, not received. Date of enforcement: Data requested, not received. Comment: Data requested, not received.
G	480m N	Application reference number: 00/00307/HSC Application status: Historical Consent Application date: 30/03/2000 Address: Gas Holder Station, East Street, Epsom, Surrey, KT17 1BG	Details: Continuation Of Planning Hazardous Substance Consent Following A Change In Control Of Part Of The Land. Enforcement: Data requested, not received. Date of enforcement: Data requested, not received. Comment: Data requested, not received.

*This data is sourced from Local Authority records.*

#### 4.9 Historical licensed industrial activities (IPC)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.

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

#### 4.10 Licensed industrial activities (Part A(1))

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

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

<b>Records within 500m</b>	<b>4</b>
----------------------------	----------

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 50**

ID	Location	Address	Details	
B	163m NW	D & L UK Dry Cleaners, 62 High Street, Epsom, Surrey, KT19 8AJ	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
5	176m NE	LB Dry Cleaners, 1A Church Street, Epsom, Surrey, KT17 4PF	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	292m NE	Quality Dry Cleaners, 37 Upper High Street, Epsom, Surrey, KT17 4RA	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	334m NW	Brm Coachworks Ltd, 32 Waterloo Road, Surrey, Epsom, KT19 8EX	Process: Petrol Vapour Recovery Status: Historical 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	<b>0</b>
---------------------	----------

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	<b>0</b>
---------------------	----------

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	<b>0</b>
---------------------	----------

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	<b>2</b>
---------------------	----------

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 50**

ID	Location	Details	
H	479m W	Incident Date: 08/07/2002 Incident Identification: 89926 Pollutant: Sewage Materials Pollutant Description: Other Sewage Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	479m W	Incident Date: 17/07/2003 Incident Identification: 174585 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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





#### 4.19 Pollution inventory substances

Records within 500m

0

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.

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

#### 4.20 Pollution inventory waste transfers

Records within 500m

0

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.

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

#### 4.21 Pollution inventory radioactive waste

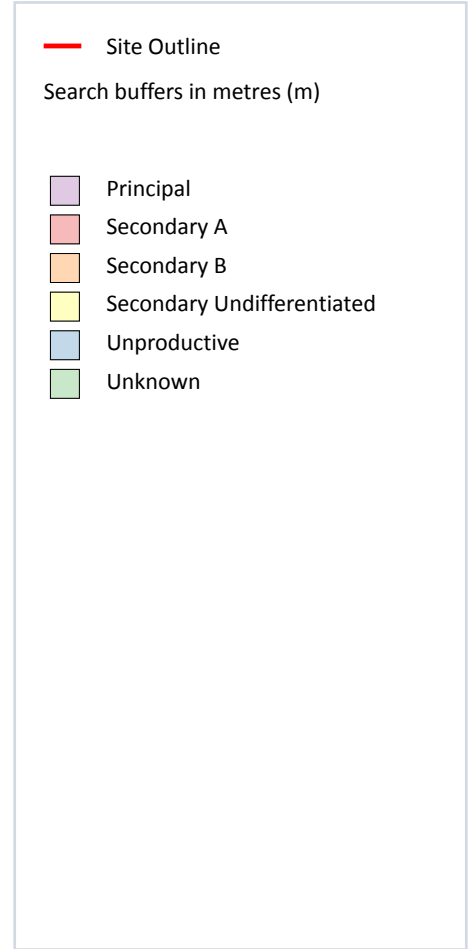
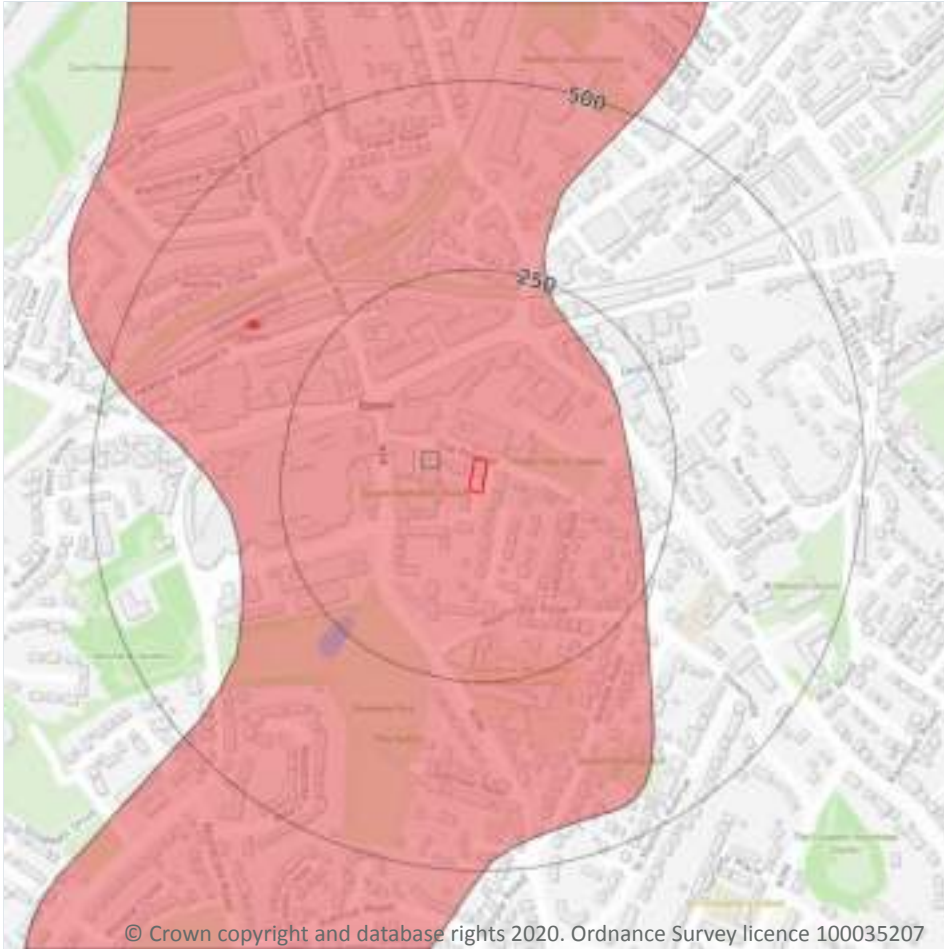
Records within 500m

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

1

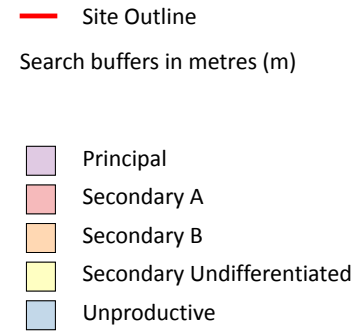
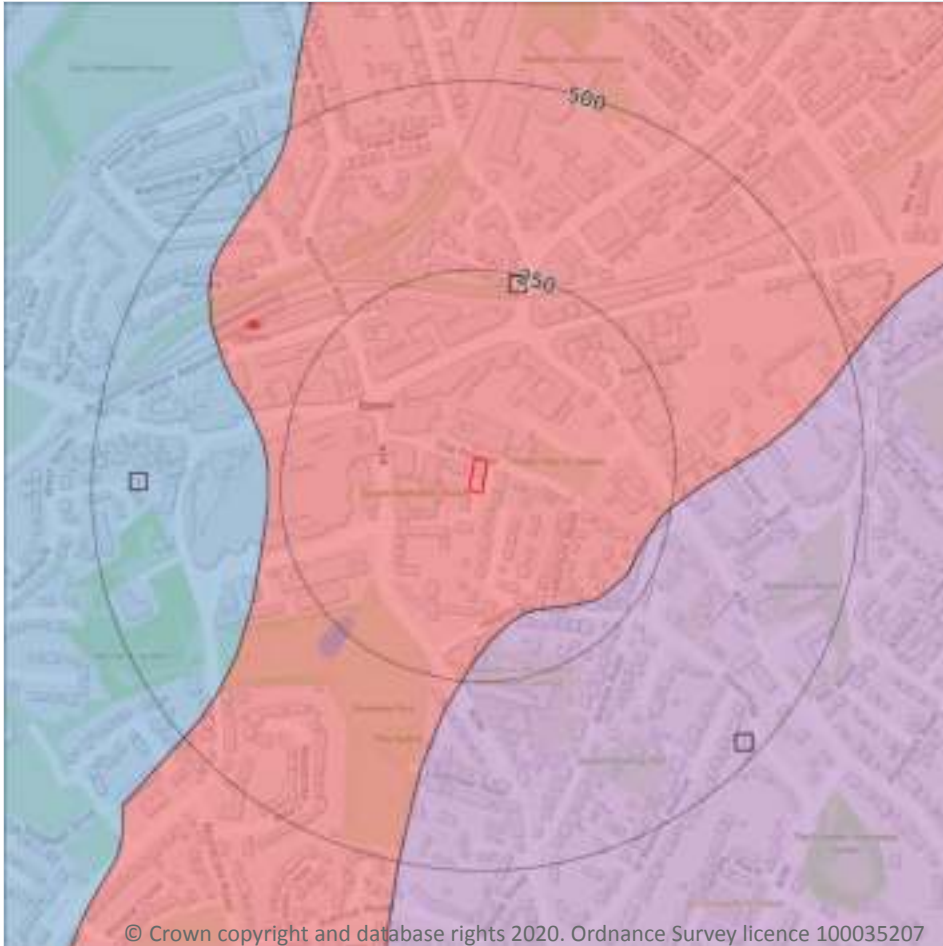
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 58**

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

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

## Bedrock aquifer



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### 5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

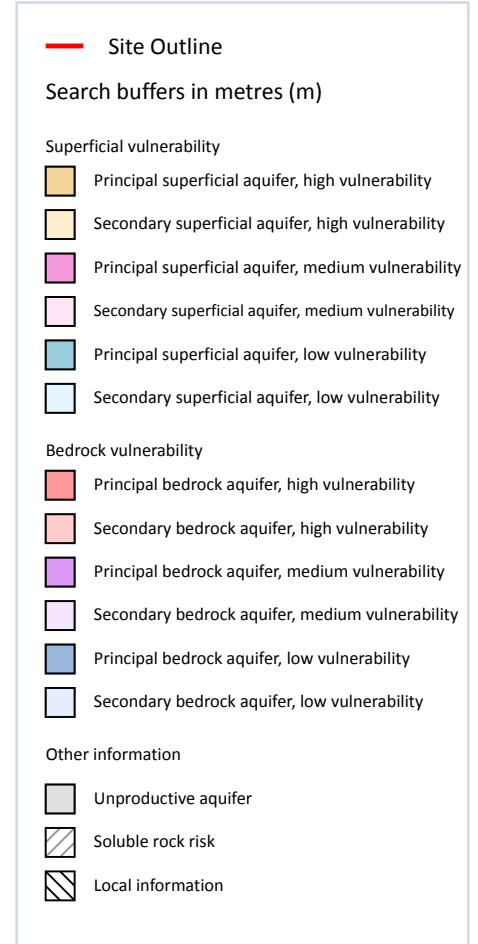
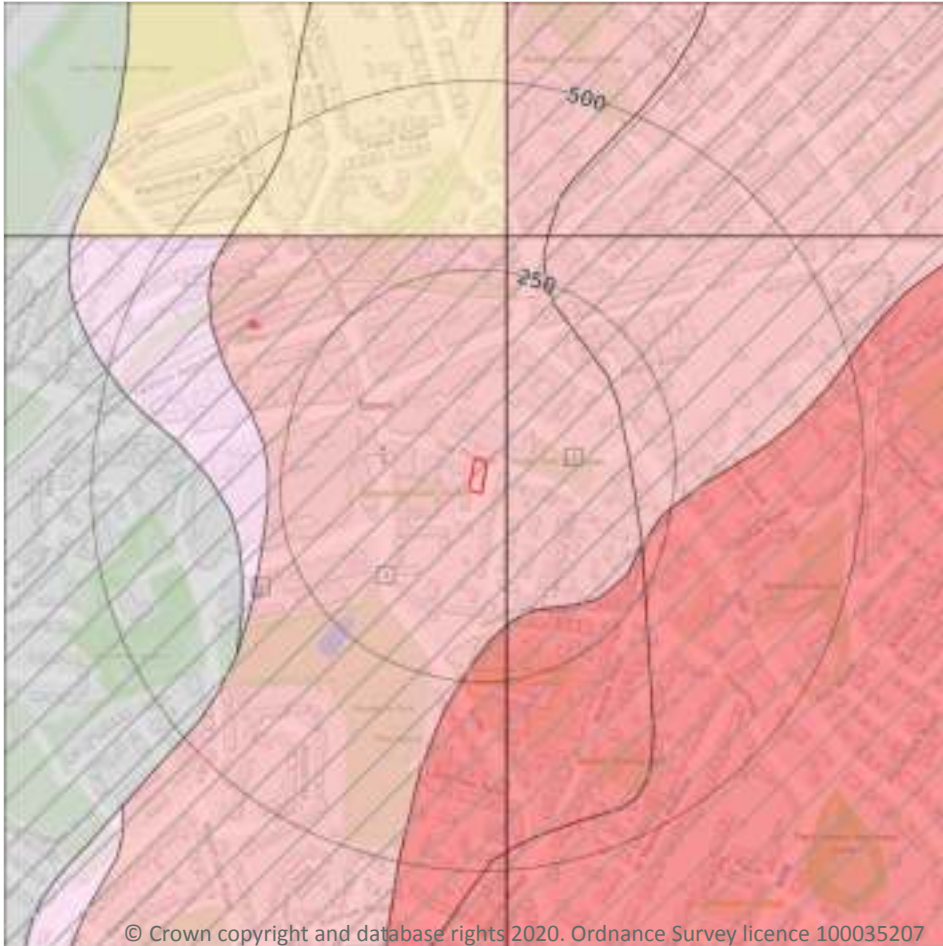
Features are displayed on the Bedrock aquifer map on **page 59**

ID	Location	Designation	Description
1	On site	Secondary A	<b>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</b>
2	168m S	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

ID	Location	Designation	Description
3	266m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

*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 61**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class: Low</b> <b>Infiltration value: 40-70%</b> <b>Dilution value: 300-550mm/year</b>	<b>Vulnerability: Medium</b> <b>Aquifer type: Secondary</b> <b>Thickness: &lt;3m</b> <b>Patchiness value: &lt;90%</b> <b>Recharge potential: High</b>	<b>Vulnerability: High</b> <b>Aquifer type: Secondary</b> <b>Flow mechanism: Well connected fractures</b>
3	26m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

## 5.4 Groundwater vulnerability- soluble rock risk

<b>Records on site</b>	<b>1</b>
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	<b>Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.</b>	<b>3.0%</b>

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

## 5.5 Groundwater vulnerability- local information

<b>Records on site</b>	<b>0</b>
------------------------	----------

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

5

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 63**

ID	Location	Details	
A	534m NE	Status: Historical Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT A Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 521210 Northing: 161180	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1967 Version End Date: -
A	534m NE	Status: Active Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT 'A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521210 Northing: 161180	Annual Volume (m <sup>3</sup> ): 7,071,303 Max Daily Volume (m <sup>3</sup> ): 21,584 Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 101 Version Start Date: 09/07/2014 Version End Date: -
-	650m N	Status: Historical Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT B Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 521050 Northing: 161350	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1967 Version End Date: -
-	650m N	Status: Active Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT 'B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521050 Northing: 161350	Annual Volume (m <sup>3</sup> ): 7,071,303 Max Daily Volume (m <sup>3</sup> ): 21,584 Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 101 Version Start Date: 09/07/2014 Version End Date: -
-	1016m N	Status: Active Licence No: 28/39/33/0012 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NONSUCH INDUSTRIAL ESTATE PUMPING STATION 'C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521280 Northing: 161670	Annual Volume (m <sup>3</sup> ): 829,662 Max Daily Volume (m <sup>3</sup> ): 2,273.05 Original Application No: - Original Start Date: 13/03/1972 Expiry Date: - Issue No: 100 Version Start Date: 09/07/2014 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

5

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 63**

ID	Location	Details	
A	534m NE	Status: Historical Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT A Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 521210 Northing: 161180	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1967 Version End Date: -
A	534m NE	Status: Active Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT 'A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521210 Northing: 161180	Annual Volume (m <sup>3</sup> ): 7,071,303 Max Daily Volume (m <sup>3</sup> ): 21,584 Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 101 Version Start Date: 09/07/2014 Version End Date: -
-	650m N	Status: Historical Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT B Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 521050 Northing: 161350	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1967 Version End Date: -



ID	Location	Details	
-	650m N	Status: Active Licence No: 28/39/33/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: EAST STREET WATERWORKS POINT 'B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521050 Northing: 161350	Annual Volume (m <sup>3</sup> ): 7,071,303 Max Daily Volume (m <sup>3</sup> ): 21,584 Original Application No: - Original Start Date: 08/05/1967 Expiry Date: - Issue No: 101 Version Start Date: 09/07/2014 Version End Date: -
-	1016m N	Status: Active Licence No: 28/39/33/0012 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NONSUCH INDUSTRIAL ESTATE PUMPING STATION 'C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 521280 Northing: 161670	Annual Volume (m <sup>3</sup> ): 829,662 Max Daily Volume (m <sup>3</sup> ): 2,273.05 Original Application No: - Original Start Date: 13/03/1972 Expiry Date: - Issue No: 100 Version Start Date: 09/07/2014 Version End Date: -

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

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>2</b>
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 63**

ID	Location	Type	Description
1	On site	1	Inner catchment
2	470m W	2	Outer catchment

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

## 5.10 Source Protection Zones (confined aquifer)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

1

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.

Features are displayed on the Hydrology map on **page 67**

*This data is sourced from the Ordnance Survey.*

### 6.3 WFD Surface water body catchments

<b>Records on site</b>	<b>1</b>
------------------------	----------

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 67**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Hogsmill	GB106039017440	Hogsmill	London

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

### 6.4 WFD Surface water bodies

<b>Records identified</b>	<b>1</b>
---------------------------	----------

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.

Features are displayed on the Hydrology map on **page 67**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2231m NE	River	Hogsmill	<a href="#">GB106039017440</a>	Moderate	Good	Moderate	2016

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

## 6.5 WFD Groundwater bodies

Records on site

0

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.

*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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

*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

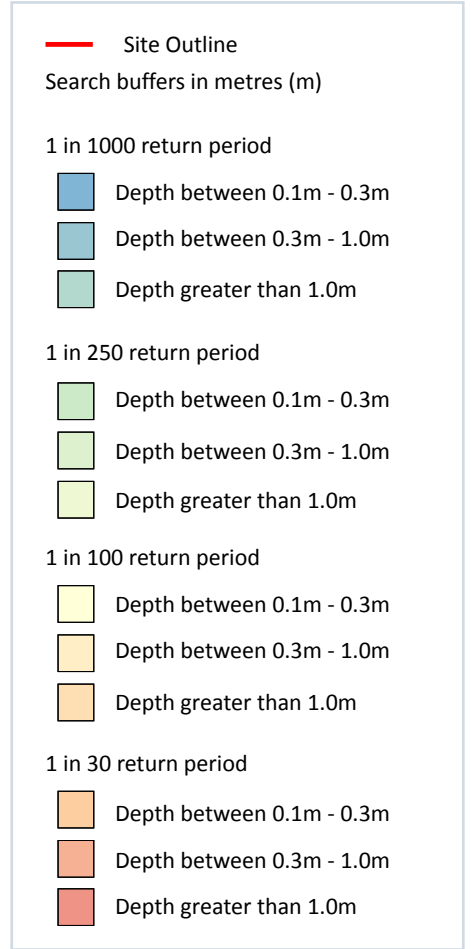
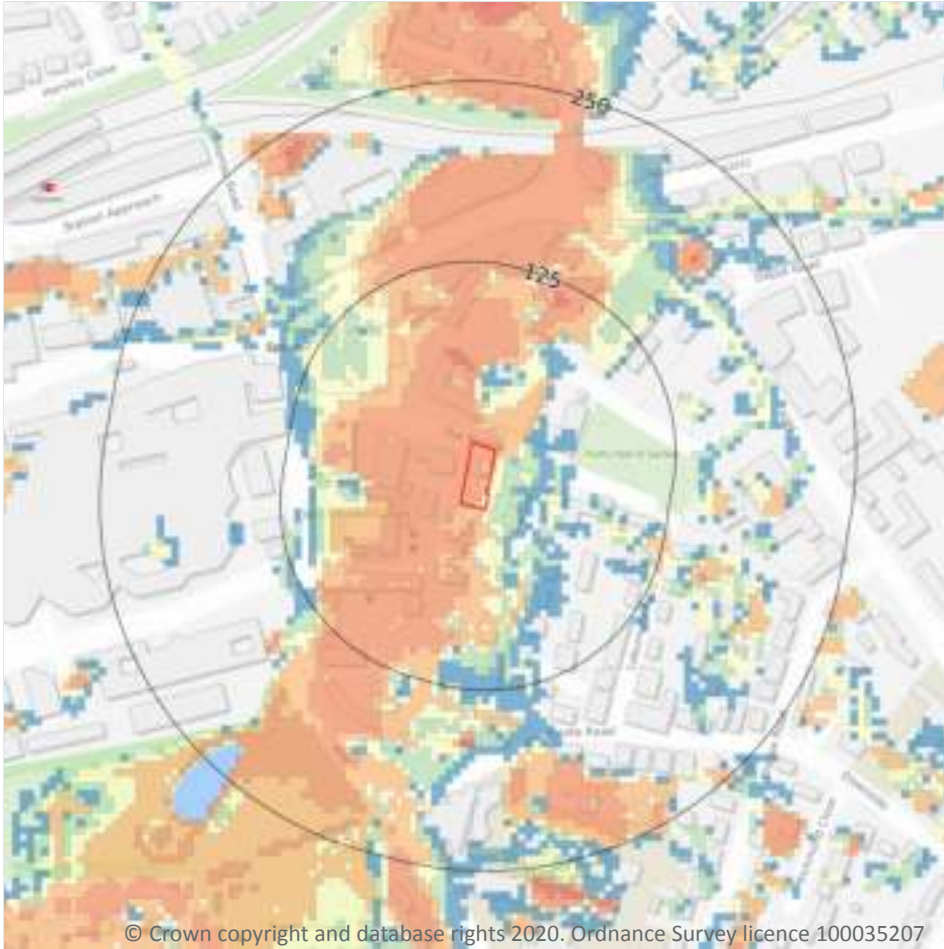
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

*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

**1 in 30 year, 0.3m - 1.0m**

Highest risk within 50m

**1 in 30 year, Greater than 1.0m**

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.

Features are displayed on the Surface water flooding map on **page 73**

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

*This data is sourced from Ambiental Risk Analytics.*

## 9 Groundwater flooding



— Site Outline  
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

### 9.1 Groundwater flooding

**Highest risk on site**

**Moderate**

**Highest risk within 50m**

**Moderate**

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 Ambient Risk Analytics.*

## 10 Environmental designations



**Site Outline**

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- National Nature Reserves (NNR)
- Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Green Belt

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### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

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.

Features are displayed on the Environmental designations map on **page 76**

ID	Location	Name	Data source
2	811m N	Stones Road Pond	Natural England

ID	Location	Name	Data source
-	1292m W	Epsom and Ashted Commons	Natural England

*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**

**1**

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.

Features are displayed on the Environmental designations map on **page 76**



ID	Location	Name	Data source
-	1967m SW	Ashtead Common	Natural England

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

## 10.6 Local Nature Reserves (LNR)

<b>Records within 2000m</b>	<b>1</b>
-----------------------------	----------

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
3	1024m W	Epsom Common	Natural England

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

## 10.7 Designated Ancient Woodland

<b>Records within 2000m</b>	<b>1</b>
-----------------------------	----------

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
-	1270m S	Unknown	Ancient Replanted Woodland

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

## 10.8 Biosphere Reserves

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

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

2

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	595m S	London area	Epsom & Ewell
-	1954m SW	London area	Mole Valley

*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

1

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
On site	Hogsmill NVZ	Surface Water	S450	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, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Residential - Residential development of 100 units or more.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &gt; 750m<sup>2</sup> &amp; manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;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>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or any development needing its own water supply .</p>

*This data is sourced from Natural England.*

## 10.18 SSSI Units

Records within 2000m

7

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 82**

ID: A  
 Location: 811m N  
 SSSI name: Stones Road Pond  
 Unit name: 1  
 Broad habitat: Standing Open Water And Canals  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
Great Crested Newt, Triturus cristatus	Favourable	06/10/2006

ID: -  
 Location: 1292m W  
 SSSI name: Epsom and Ashted Commons  
 Unit name: Epsom Common  
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland  
 Condition: Favourable



## Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019
Invert. assemblage A1 arboreal canopy	Favourable	28/03/2019
Invert. assemblage A211 heartwood decay	Favourable	28/03/2019
Invert. assemblage A212 bark and sapwood decay	Favourable	28/03/2019
Invert. assemblage A213 fungal fruiting body	Favourable	28/03/2019
Lowland beech and yew woodland	Favourable	28/03/2019
Lowland mixed deciduous woodland	Favourable	28/03/2019

ID: -  
 Location: 1340m W  
 SSSI name: Epsom and Ashtead Commons  
 Unit name: Epsom Common  
 Broad habitat: Dwarf Shrub Heath - Lowland  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019

ID: -  
 Location: 1455m W  
 SSSI name: Epsom and Ashtead Commons  
 Unit name: Epsom Common  
 Broad habitat: Dwarf Shrub Heath - Lowland  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019

ID: -  
 Location: 1743m W  
 SSSI name: Epsom and Ashtead Commons  
 Unit name: Epsom Common  
 Broad habitat: Dwarf Shrub Heath - Lowland  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019

ID: -  
 Location: 1914m W  
 SSSI name: Epsom and Ashtead Commons  
 Unit name: Epsom Common  
 Broad habitat: Dwarf Shrub Heath - Lowland  
 Condition: Favourable  
 Reportable features:

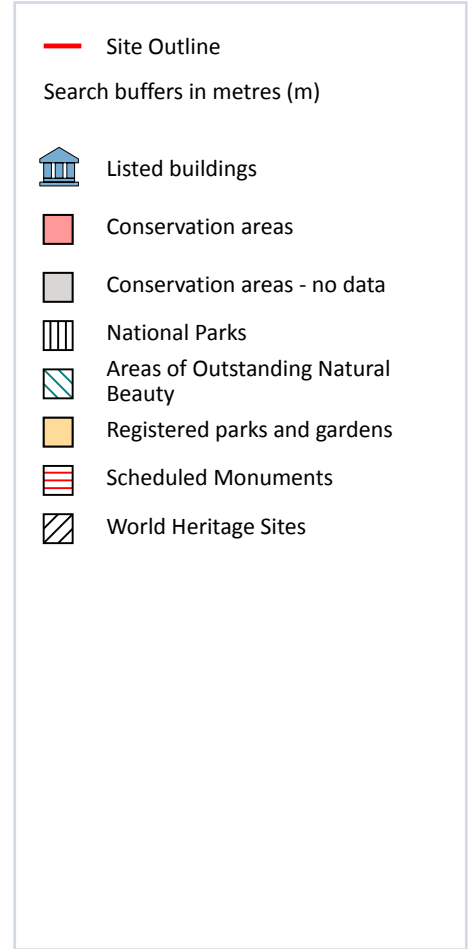
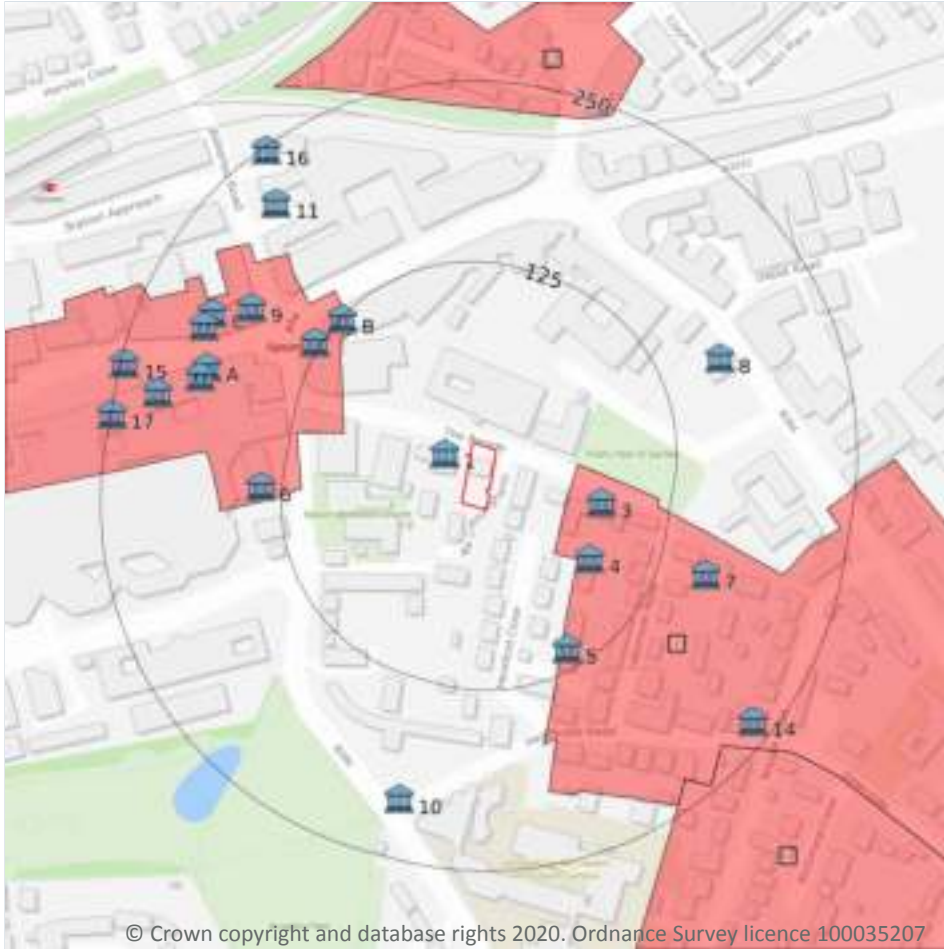
Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019

ID: -  
 Location: 1967m SW  
 SSSI name: Epsom and Ashtead Commons  
 Unit name: Unit 6  
 Broad habitat: Neutral Grassland - Lowland  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	28/03/2019
Invert. assemblage A1 arboreal canopy	Favourable	28/03/2019
Lowland mixed deciduous woodland	Favourable	28/03/2019

*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

21

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

Features are displayed on the Visual and cultural designations map on **page 86**

ID	Location	Name	Grade	Reference Number	Listed date
1	18m W	The Pines, Epsom And Ewell, Surrey, KT18	II	1213470	22/03/1974
3	78m E	Roseberry Cottage, Epsom And Ewell, Surrey, KT18	II	1289063	22/03/1974
4	79m SE	18, The Parade, Epsom And Ewell, Surrey, KT18	II	1213471	22/03/1974
5	111m SE	Melrose Cottage, Epsom And Ewell, Surrey, KT18	II	1213472	22/03/1974
B	124m NW	75 And 77, High Street, Epsom And Ewell, Surrey, KT19	II	1213119	22/03/1974



ID	Location	Name	Grade	Reference Number	Listed date
B	129m NW	The Spread Eagle Hotel And No. 89, Epsom And Ewell, Surrey, KT19	II	1028564	10/04/1954
6	140m W	Ashley House, Epsom And Ewell, Surrey, KT18	II*	1289636	10/04/1954
7	158m E	Ashley Cottages, Epsom And Ewell, Surrey, KT18	II	1289064	22/03/1974
8	168m NE	Hope Lodge, Epsom And Ewell, Surrey, KT17	II	1212410	22/03/1974
9	179m NW	66, High Street, Epsom And Ewell, Surrey, KT19	II	1028568	22/03/1974
A	191m W	107, High Street, Epsom And Ewell, Surrey, KT19	II	1028565	22/03/1974
A	194m W	109-113, High Street, Epsom And Ewell, Surrey, KT19	II	1213134	26/11/1973
C	201m NW	The Wellington Public House, Epsom And Ewell, Surrey, KT19	II	1213285	22/03/1974
C	203m NW	Epsom School Of Art Extension The Post Office, Epsom And Ewell, Surrey, EPSOM SCHOOL OF ART EXTENSION	II	1213288	22/03/1974
10	209m S	Garden Wall To Swail House, Epsom And Ewell, Surrey, KT18	II	1378200	26/11/1973
11	214m NW	16, Waterloo Road, Epsom And Ewell, Surrey, KT19	II	1288829	22/03/1974
A	221m W	119 And 121, High Street, Epsom And Ewell, Surrey, KT19	II	1378215	22/03/1974
14	236m SE	2, Heathcote Road, Epsom And Ewell, Surrey, KT18	II	1378214	22/03/1974
15	247m W	Clock Tower, Epsom And Ewell, Surrey, KT19	II	1213296	22/03/1974
16	248m NW	28 And 30, Waterloo Road, Epsom And Ewell, Surrey, KT19	II	1288898	22/03/1974
17	249m W	127 And 129, High Street, Epsom And Ewell, Surrey, KT19	II*	1213163	10/04/1954

*This data is sourced from English Heritage, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

### Records within 250m

4

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

Features are displayed on the Visual and cultural designations map on **page 86**





ID	Location	Name	District	Date of designation
2	52m E	Church Street, Epsom	Epsom and Ewell	1973
A	89m W	Epsom Town Centre	Epsom and Ewell	1971
12	231m SE	Worple Road	Epsom and Ewell	1988
13	231m N	Adelphi Road	Epsom and Ewell	09/09/1999

*This data is sourced from English Heritage, 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 English Heritage, Cadw and Historic Environment Scotland.*

## 11.7 Registered Parks and Gardens

**Records within 250m**

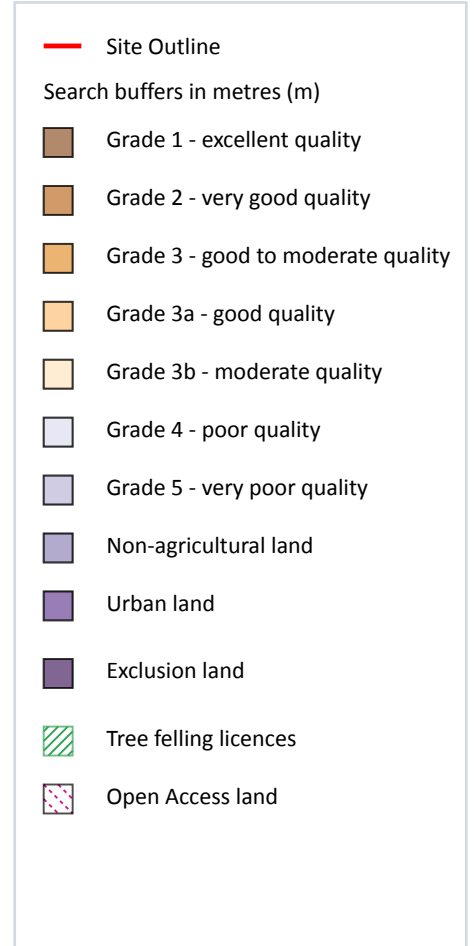
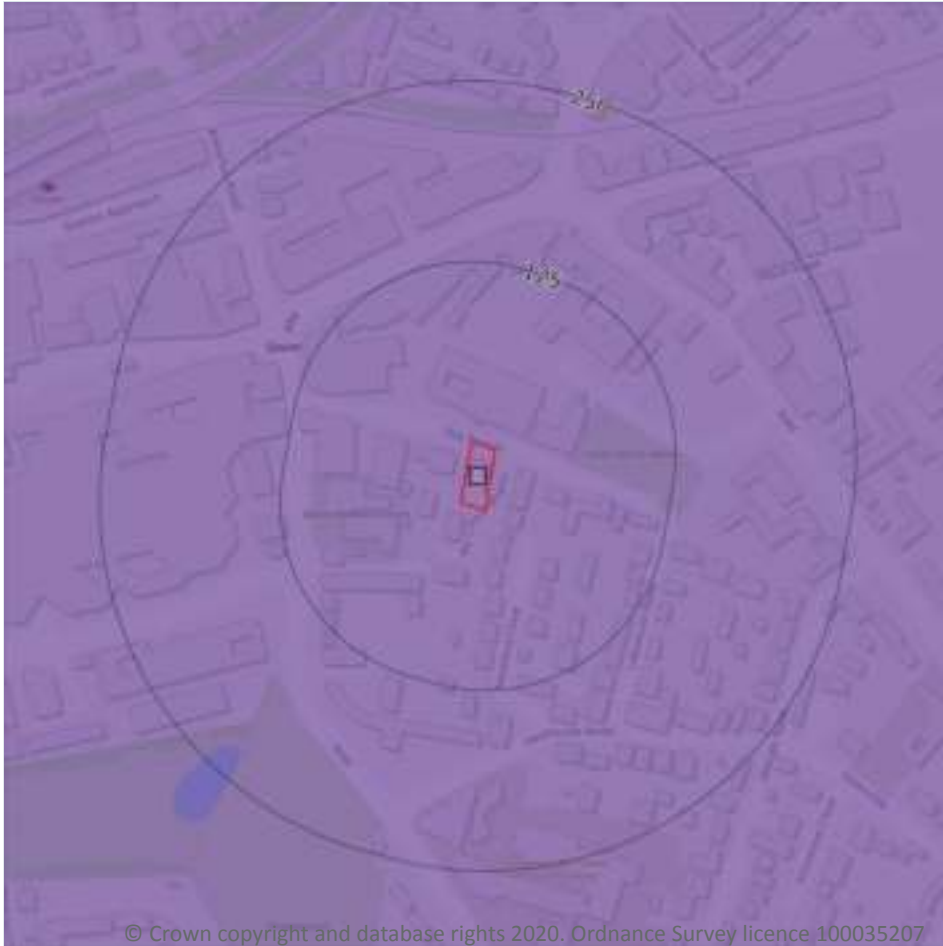
**0**

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 English Heritage, Cadw and Historic Environment Scotland.*



## 12 Agricultural designations



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### 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 90**

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.

*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.

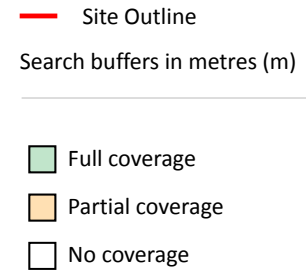
*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



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### 14.1 10k Availability

Records within 500m

1

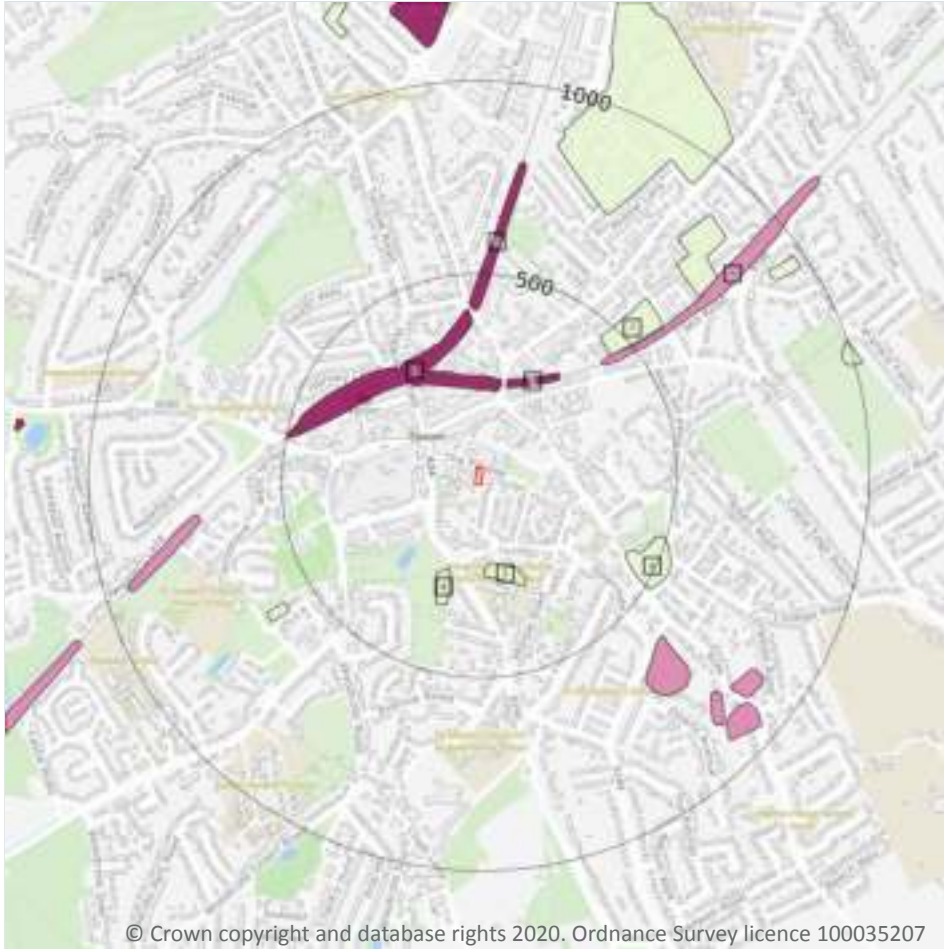
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 93**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ26SW

*This data is sourced from the British Geological Survey.*

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



— Site Outline  
Search buffers in metres (m)

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

### 14.2 Artificial and made ground (10k)

Records within 500m

8

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 94**

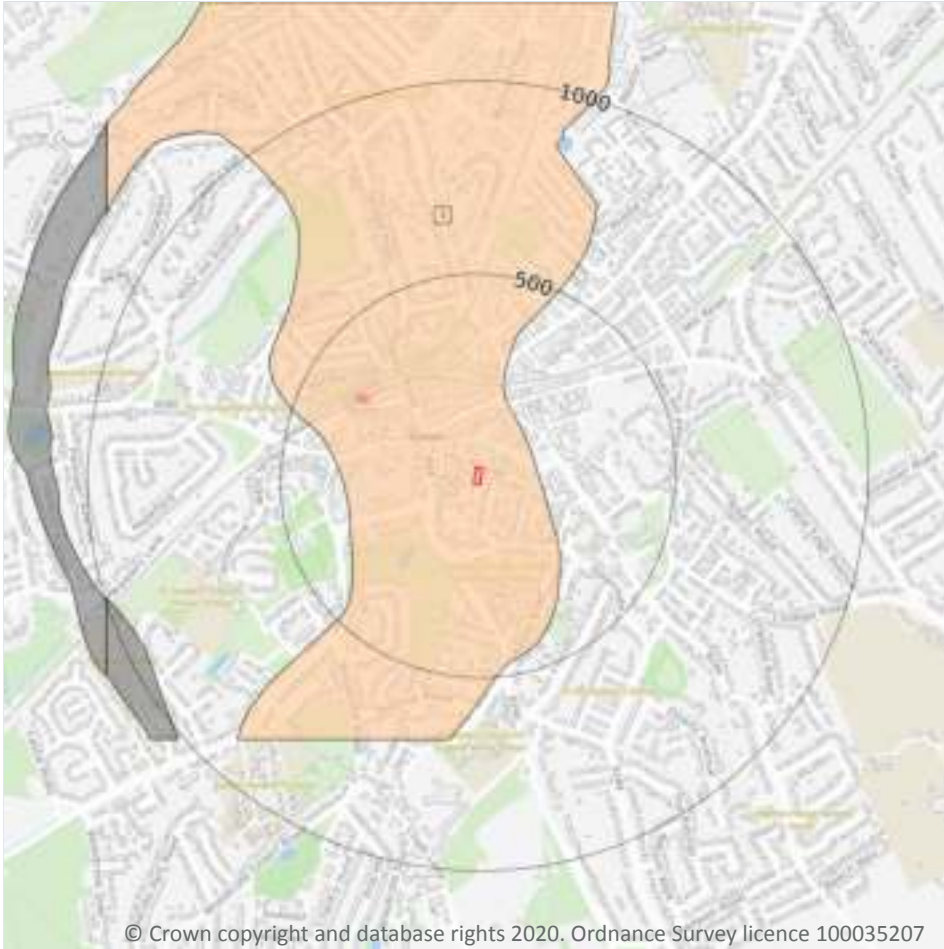
ID	Location	LEX Code	Description	Rock description
1	199m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	203m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	219m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	231m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	406m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	411m NE	WGR-VOID	Worked Ground (Undivided)	Void
6	414m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	442m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

*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

1

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 96**

ID	Location	LEX Code	Description	Rock description
1	On site	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	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.

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### 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 98**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
2	25m SE	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
3	127m SE	LSNCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age

ID	Location	LEX Code	Description	Rock age
4	292m W	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

**Records within 500m**

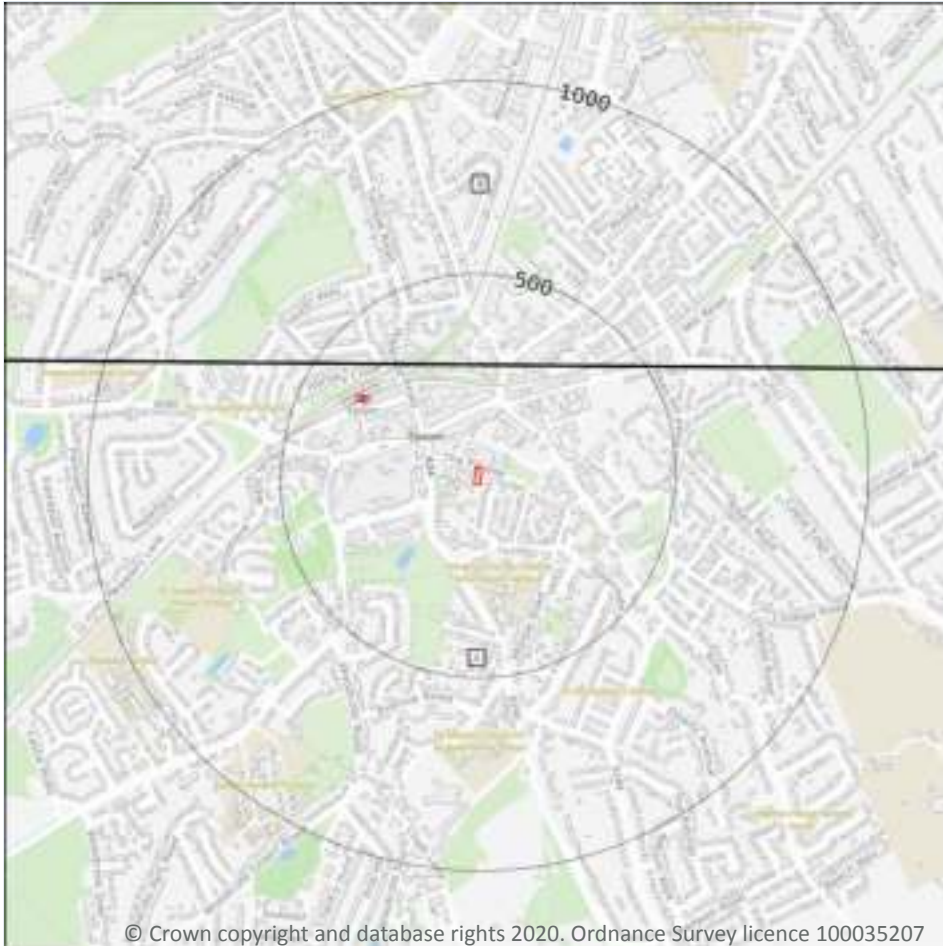
**0**

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.

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

### 15.1 50k Availability

Records within 500m

2

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

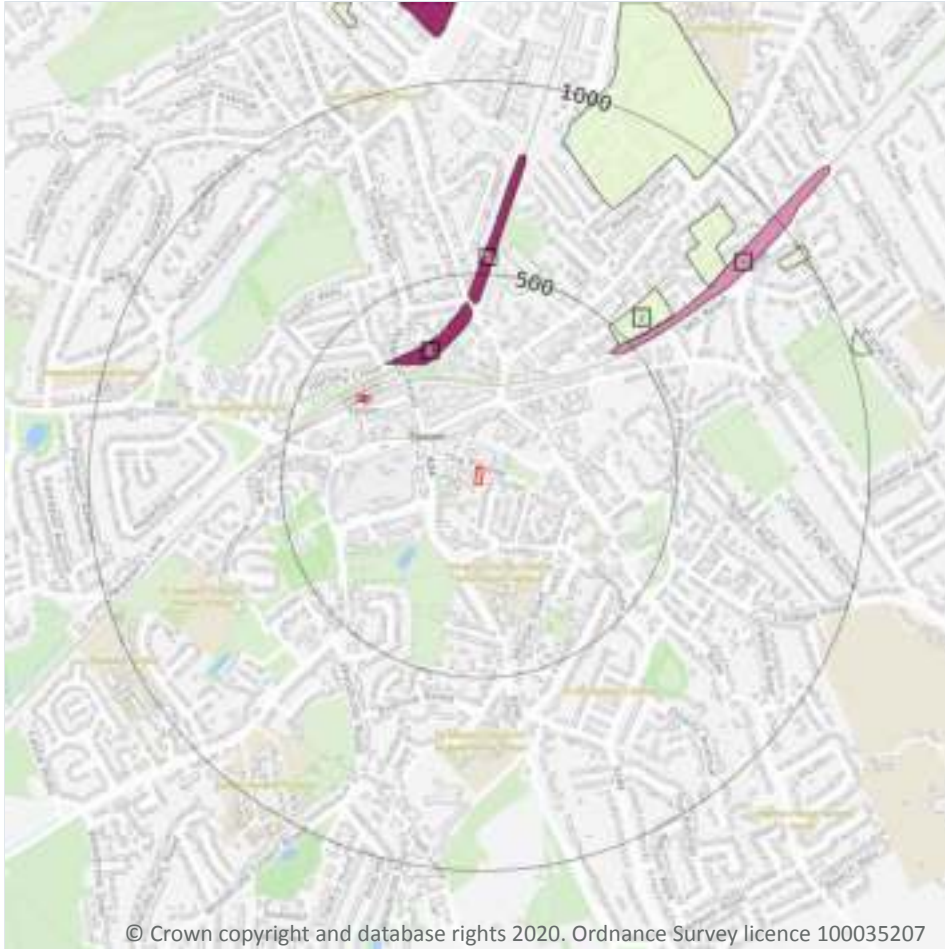
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 100**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW286_reigate_v4
2	265m N	Full	Full	Full	Full	EW270_south_london_v4

*This data is sourced from the British Geological Survey.*



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



— Site Outline  
 Search buffers in metres (m)

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

### 15.2 Artificial and made ground (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 101**

ID	Location	LEX Code	Description	Rock description
1	297m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	424m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	447m NE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	478m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

**Records within 50m**

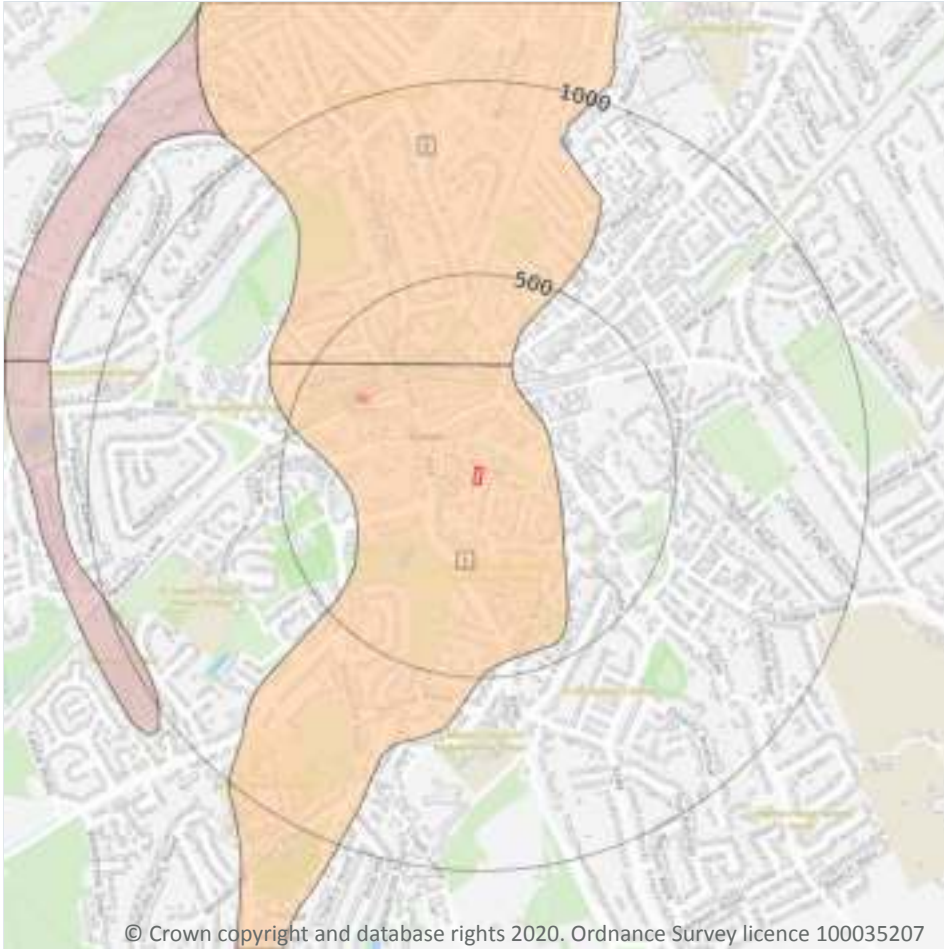
**0**

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 103**

ID	Location	LEX Code	Description	Rock description
1	On site	RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL
2	265m N	RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL

*This data is sourced from the British Geological Survey.*

## 15.5 Superficial permeability (50k)

<b>Records within 50m</b>	<b>1</b>
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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)

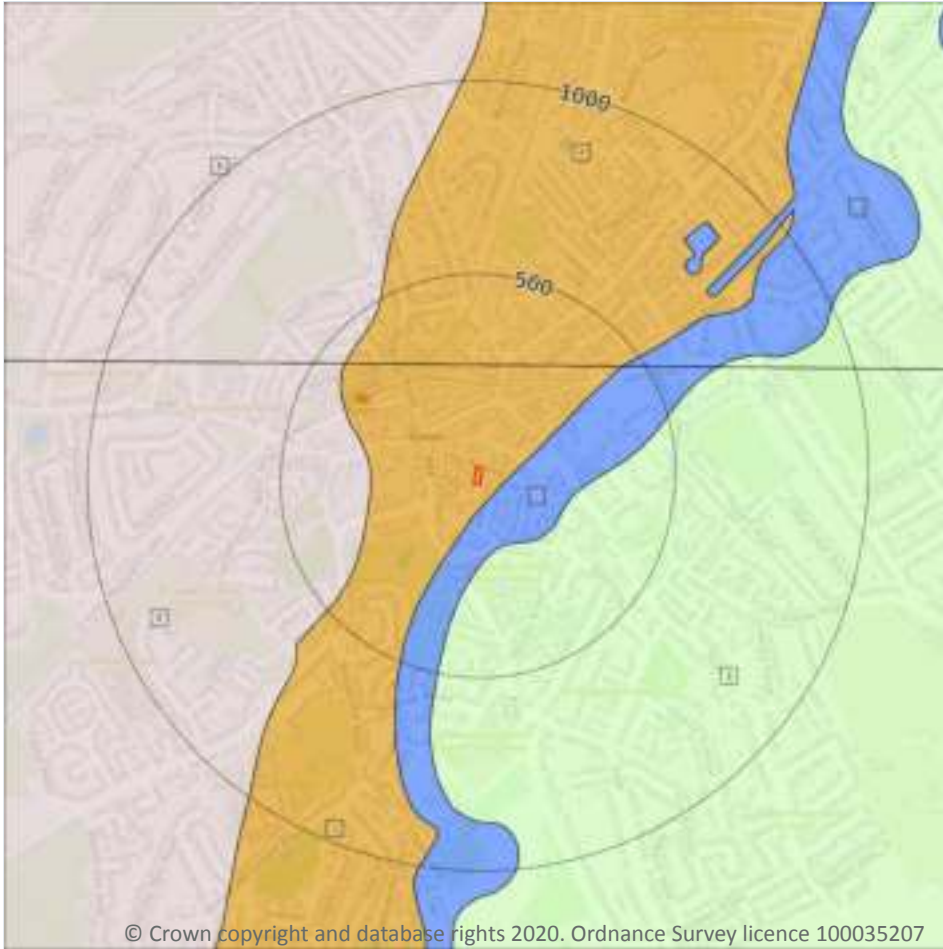
<b>Records within 50m</b>	<b>0</b>
---------------------------	----------

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



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

### 15.8 Bedrock geology (50k)

Records within 500m

7

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 105**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	42m SE	TAB-S	THANET FORMATION - SAND	THANETIAN
3	168m S	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

ID	Location	LEX Code	Description	Rock age
4	265m N	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
5	266m W	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN
6	434m NW	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN
7	450m NE	TAB-S	THANET FORMATION - SAND	THANETIAN

This data is sourced from the British Geological Survey.

## 15.9 Bedrock permeability (50k)

<b>Records within 50m</b>	<b>2</b>
---------------------------	----------

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
<b>On site</b>	<b>Mixed</b>	<b>Moderate</b>	<b>Very Low</b>
42m NE	Intergranular	High	High

This data is sourced from the British Geological Survey.

## 15.10 Bedrock faults and other linear features (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.

This data is sourced from the British Geological Survey.

## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

9

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 107**

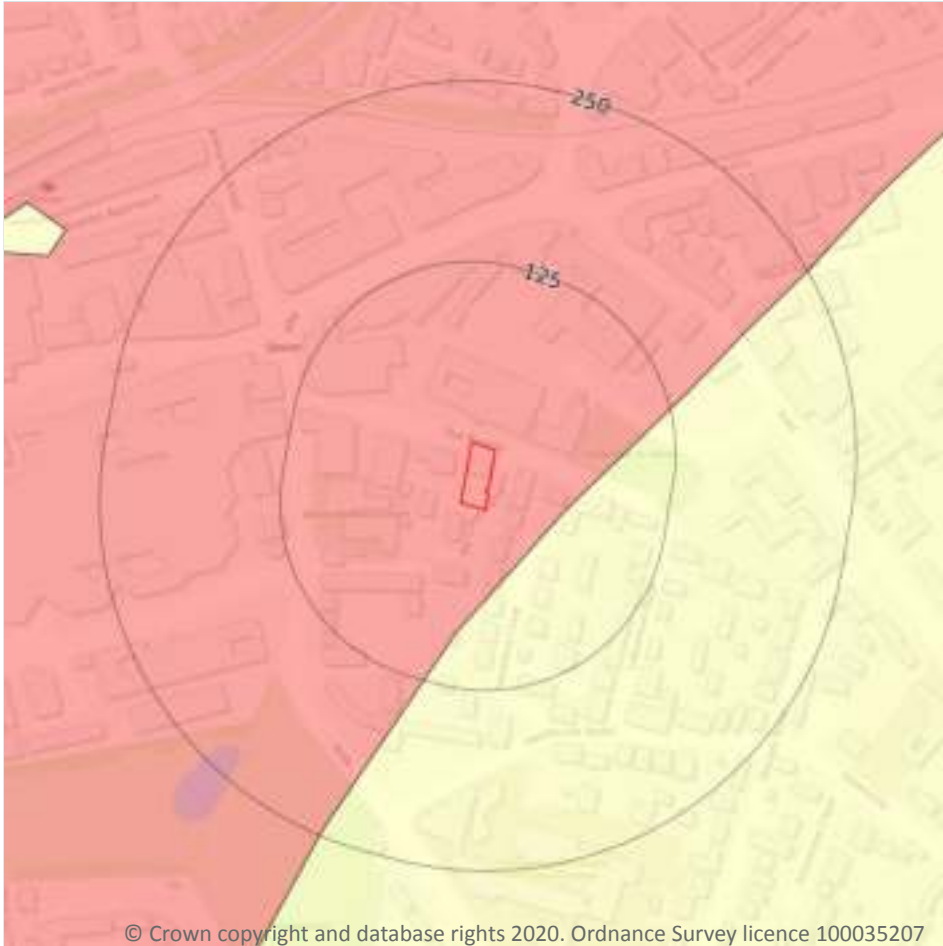
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	185m NE	521140 160780	CHURCH STREET EPSOM SURREY 4	10.0	N	<a href="#">15619018</a>
A	196m E	521160 160760	CHURCH STREET EPSOM SURREY 3	10.45	N	<a href="#">15619015</a>
A	203m NE	521150 160800	CHURCH STREET EPSOM SURREY TP1	2.3	N	<a href="#">15619020</a>

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	203m NE	521150 160800	CHURCH STREET EPSOM SURREY 1	15.45	N	<a href="#">15619009</a>
A	205m E	521170 160760	CHURCH STREET EPSOM SURREY TP4	-2.0	N	<a href="#">15619028</a>
A	207m NE	521160 160790	CHURCH STREET EPSOM SURREY TP2	2.15	N	<a href="#">15619024</a>
A	207m NE	521160 160790	CHURCH STREET EPSOM SURREY TP3	2.15	N	<a href="#">15619026</a>
A	208m E	521170 160770	CHURCH STREET EPSOM SURREY 2	15.0	N	<a href="#">15619013</a>
1	222m NW	520870 160910	EPSOM INNER RELIEF ROAD BH6 EPSOM	9.14	N	<a href="#">586339</a>

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

Records within 50m

2

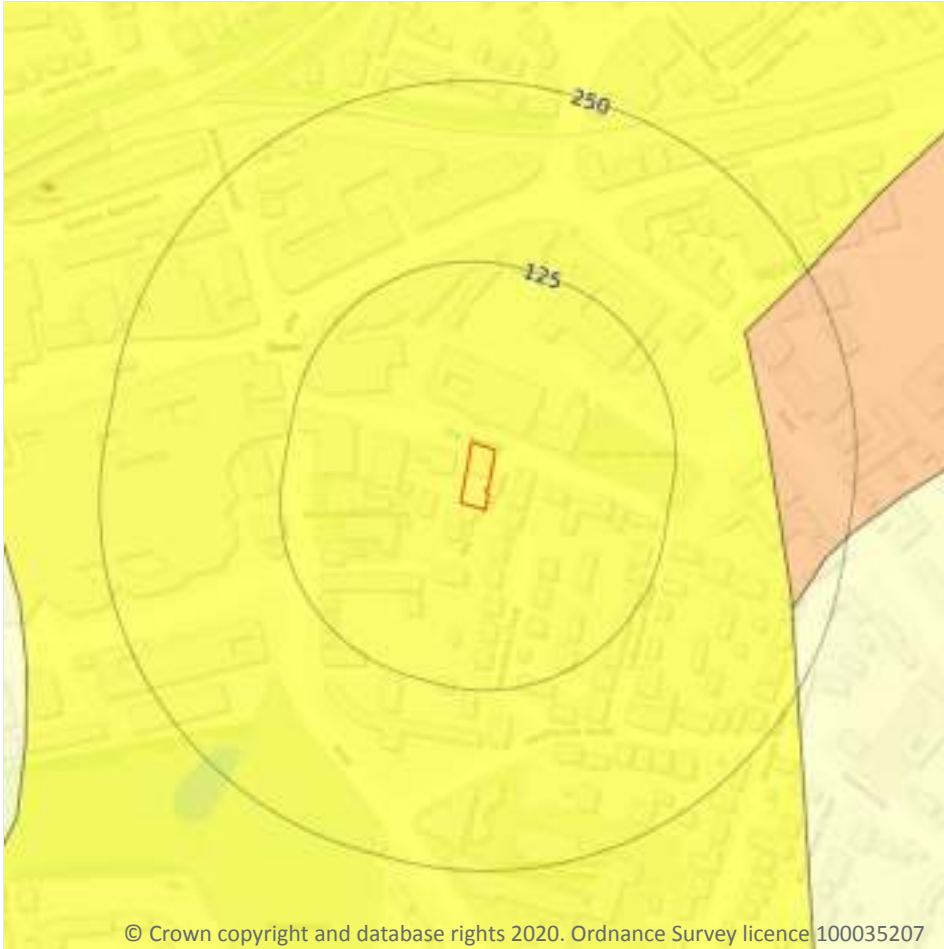
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 109**

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.
42m SE	Negligible	Ground conditions predominantly non-plastic.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Running sands



— Site Outline  
Search buffers in metres (m)

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

### 17.2 Running sands

Records within 50m

1

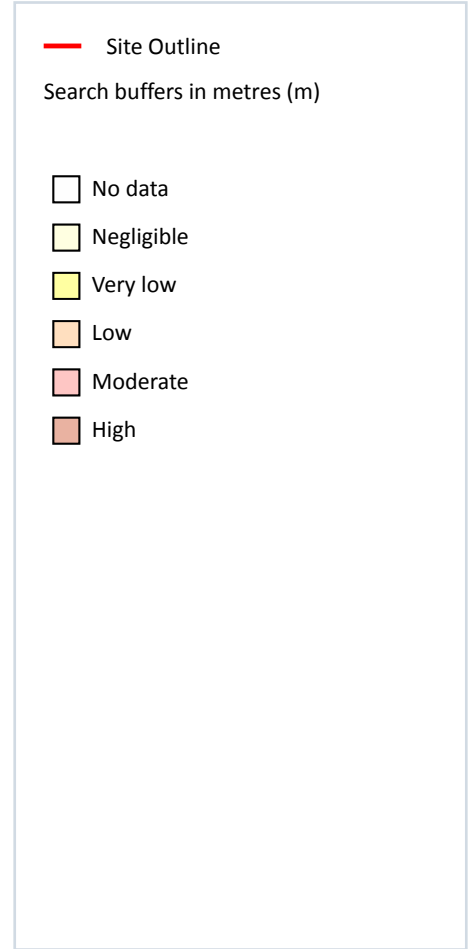
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 110**

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



### 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 111**

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



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— Site Outline  
Search buffers in metres (m)

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

### 17.4 Collapsible deposits

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 112**

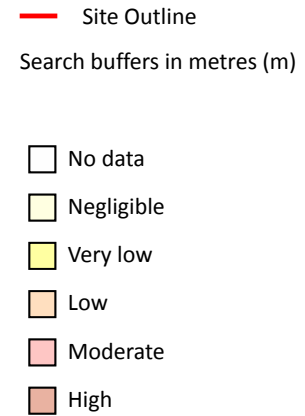
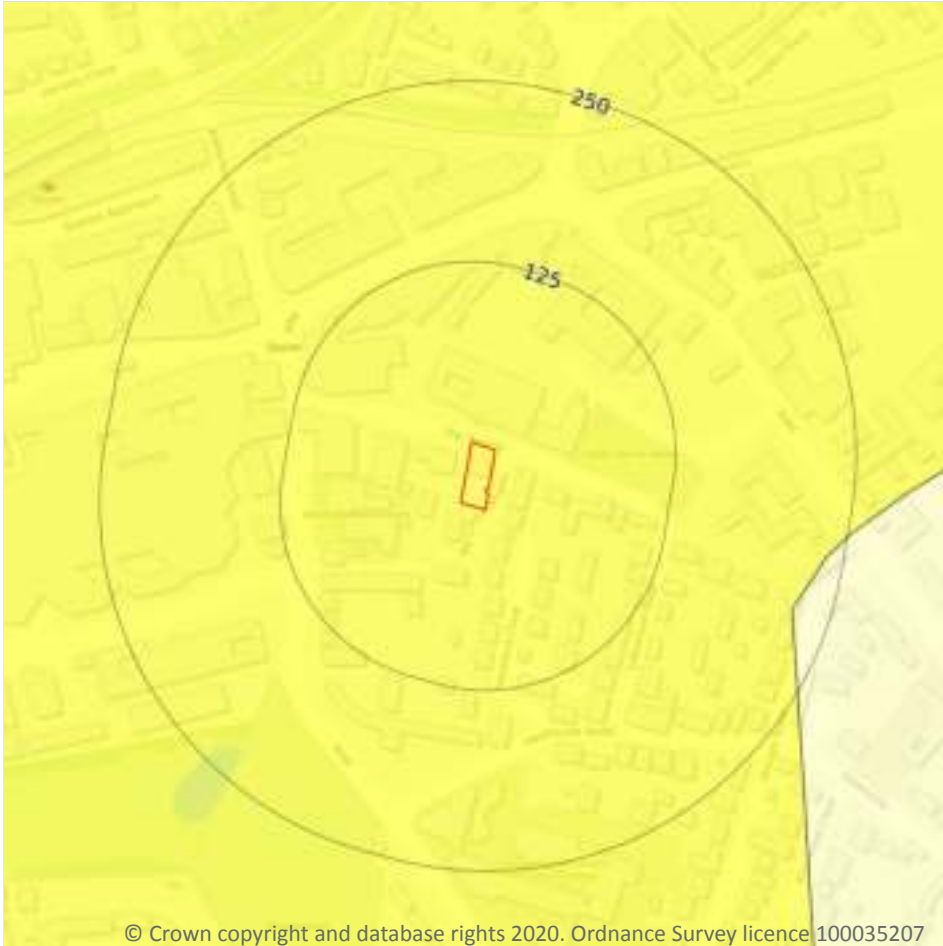
Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Landslides



### 17.5 Landslides

Records within 50m

1

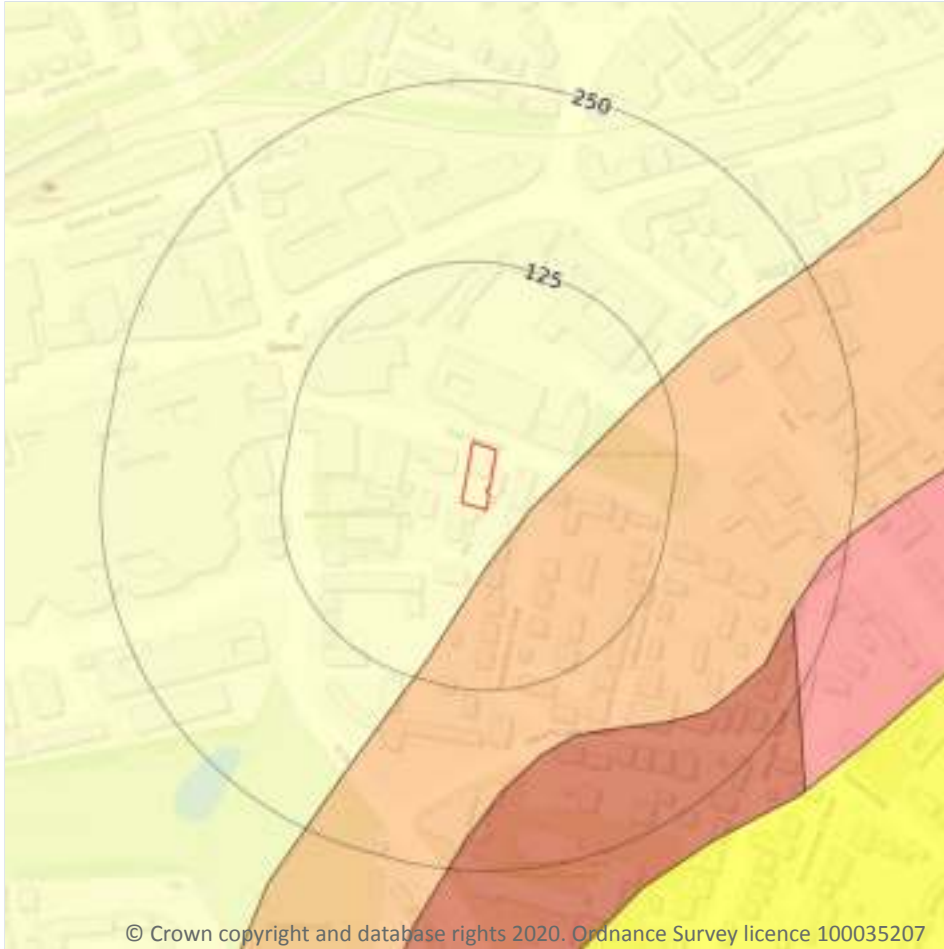
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 113**

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

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline  
Search buffers in metres (m)

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

### 17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 114**

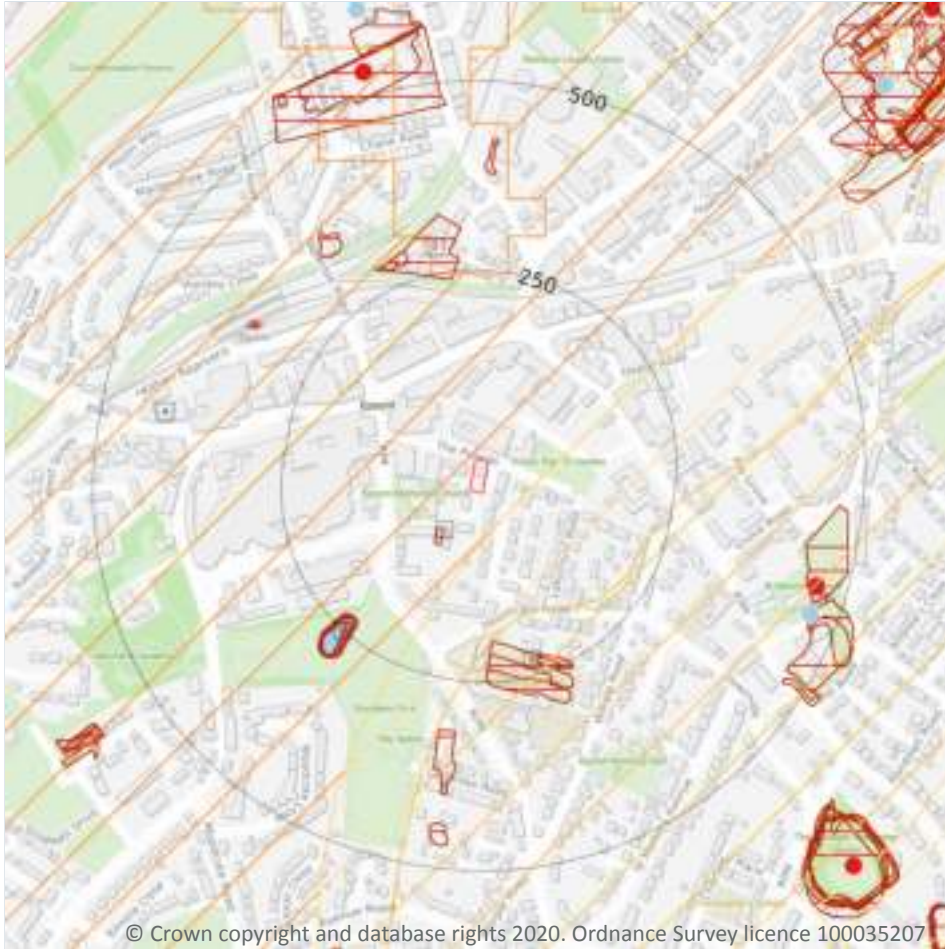
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
24m SE	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



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

### 18.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Peter Brett Associates (PBA).*

## 18.2 BritPits

### Records within 500m

**1**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 116**

ID	Location	Details	Description
E	458m E	Name: St Martin's Church Denehole Address: EPSOM, Surrey Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

### Records within 250m

**12**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 116**

ID	Location	Land Use	Year of mapping	Mapping scale
2	63m SW	Fish Pond	1866	1:10560
B	197m S	Unspecified Pit	1895	1:10560
B	214m S	Unspecified Pit	1897	1:10560
B	225m S	Pond	1866	1:10560
C	227m SW	Lake	1938	1:10560
C	228m SW	Lake	1938	1:10560
C	228m SW	Lake	1932	1:10560
C	238m SW	Pond	1992	1:10000
C	238m SW	Pond	1973	1:10000
C	238m SW	Pond	1965	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	238m SW	Pond	1962	1:10560
D	240m N	Brick Field	1866	1:10560

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

**Records within 1000m**

**0**

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

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m**

**0**

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

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

**Records within 1000m**

**9**

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, ground workings and natural cavities map on **page 116**

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Chalk	C	<b>Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered</b>
1	42m SE	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
3	168m S	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	659m S	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	672m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	694m S	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
13	704m SE	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
I	738m NE	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	840m SE	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

**Records within 1000m**

**7**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 116**

ID	Location	Mine Address	Mineral	Data source	Publisher
E	461m E	Epsom, Surrey	Chalk	'East Surrey Underground'	-



ID	Location	Mine Address	Mineral	Data source	Publisher
G	615m N	Epsom,	Chalk	-	-
I	726m NE	Epsom, Surrey	Chalk	-	BGS
I	726m NE	Epsom, Surrey	Chalk	-	-
-	863m N	Epsom, Surrey	Chalk	-	-
-	987m S	Epsom, Surrey	Man made i.e. secret tunnels, air raid shelters	-	Chelsea Speleological Society
-	995m NE	Epsom, Surrey	Chalk	-	O.S

*This data is sourced from Peter Brett Associates (PBA).*

## 18.8 JPB mining areas

**Records on site** **0**

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

**Records on site** **0**

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

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

**Records on site** **0**

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

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





### 18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Mining Searches UK.*

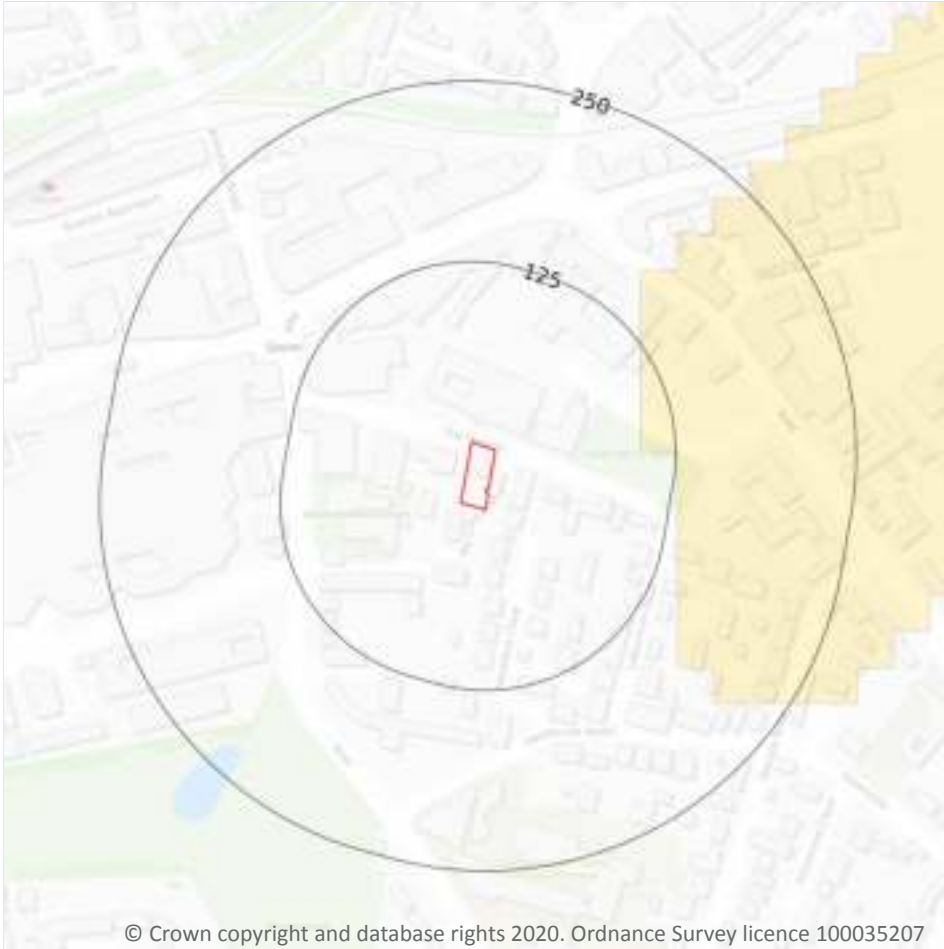
### 18.13 Clay mining

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

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

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

## 19 Radon



— Site Outline  
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

### 19.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on **page 122**

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

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



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

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 km<sup>2</sup>. 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 km<sup>2</sup>; 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
<b>On site</b>	<b>15 mg/kg</b>	<b>No data</b>	<b>100 - 200 mg/kg</b>	<b>60 - 120 mg/kg</b>	<b>1.8 mg/kg</b>	<b>60 - 90 mg/kg</b>	<b>15 - 30 mg/kg</b>
26m N	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m NE	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m SE	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*



## 20.3 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 km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects



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

### 21.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m

0

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



*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

**Records within 250m**

**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

**Records within 250m**

**22**

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 125**

Location	Land Use	Year of mapping	Mapping scale
194m N	Railways	1934	-
198m N	Railways	1913	-
200m N	Railways	1896	-
200m N	Railways	1866	-
207m N	Railway Sidings	1867	2500
207m N	Railway Sidings	1868	2500
217m N	Railway Sidings	1866	10560
226m N	Railway Sidings	1867	2500
226m N	Railway Sidings	1868	2500
227m N	Railway Sidings	1938	10560
230m NW	Railway Sidings	1992	10000
230m NW	Railway Sidings	1973	10000
230m NW	Railway Sidings	1965	10560
230m NW	Railway Sidings	1962	10560
235m N	Railway Sidings	1912	10560
235m N	Railway Sidings	1913	2500
235m N	Railway Sidings	1932	2500



Location	Land Use	Year of mapping	Mapping scale
236m N	Railway Sidings	1938	10560
236m N	Railway Sidings	1912	10560
238m N	Railway Sidings	1896	2500
239m N	Railway Sidings	1932	10560
244m NW	Railway Sidings	1938	10560

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 Royal Mail tunnels

**Records within 250m**

**0**

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

*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m**

**13**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 125**

Location	Name	Type
211m N	Sutton and Mole Valley Line	rail
214m N	Not given	Multi Track
215m N	Sutton and Mole Valley Line	rail
217m N	Sutton and Mole Valley Line	rail



Location	Name	Type
219m N	Not given	Multi Track
220m N	Sutton and Mole Valley Line	rail
225m N	Sutton and Mole Valley Line	rail
227m N	Not given	Multi Track
229m N	Sutton and Mole Valley Line	rail
237m N	Not given	Single Track
242m N	Sutton and Mole Valley Line	rail
242m N	Sutton and Mole Valley Line	rail
248m NW	Not given	Single Track

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

**Records within 500m**

**12**

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

Features are displayed on the Railway infrastructure and projects map on **page 125**

Location	Route Type	Name	Under consultation
304m NW	Network Rail Regional Branch	Not given	No
312m NW	Network Rail Regional Branch	Not given	No
314m NW	Network Rail Regional Branch	Not given	No
321m NW	Network Rail Regional Branch	Not given	No
328m N	Network Rail Regional Branch	Not given	No
329m NW	Network Rail Regional Branch	Not given	No





Location	Route Type	Name	Under consultation
331m N	Network Rail Regional Branch	Not given	No
401m N	Network Rail Regional Branch	Not given	No
407m N	Network Rail Regional Branch	Not given	No
417m N	Network Rail Regional Branch	Not given	No
423m N	Network Rail Regional Branch	Not given	No
471m N	Network Rail Regional Branch	Not given	No

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

**Records within 500m**

**0**

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

*This data is sourced from HS2 ltd.*



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## Data providers

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

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**Site Details:**

FRIARS GARTH, THE PARADE,  
EPSOM SURREY , KT18 5DH

**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1840

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1840  
Revised N/A  
Edition N/A  
Copyright N/A  
Levelled N/A

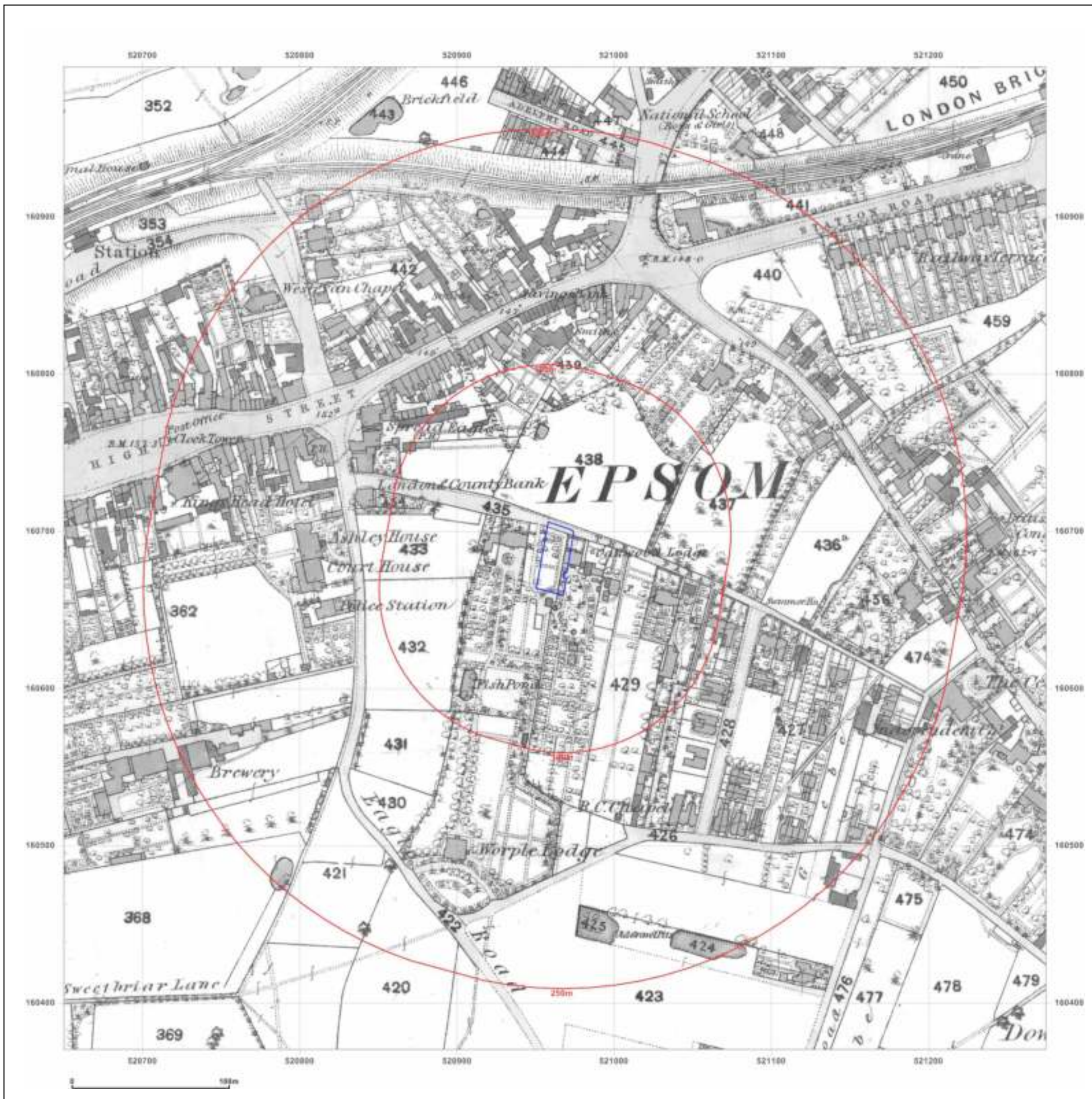


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Production date: 06 July 2020

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

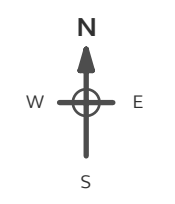



**Site Details:**

FRIARS GARTH, THE PARADE,  
EPSOM SURREY , KT18 5DH

**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series  
**Map date:** 1868  
**Scale:** 1:2,500  
**Printed at:** 1:2,500





Surveyed 1868  
Revised 1868  
Edition N/A  
Copyright N/A  
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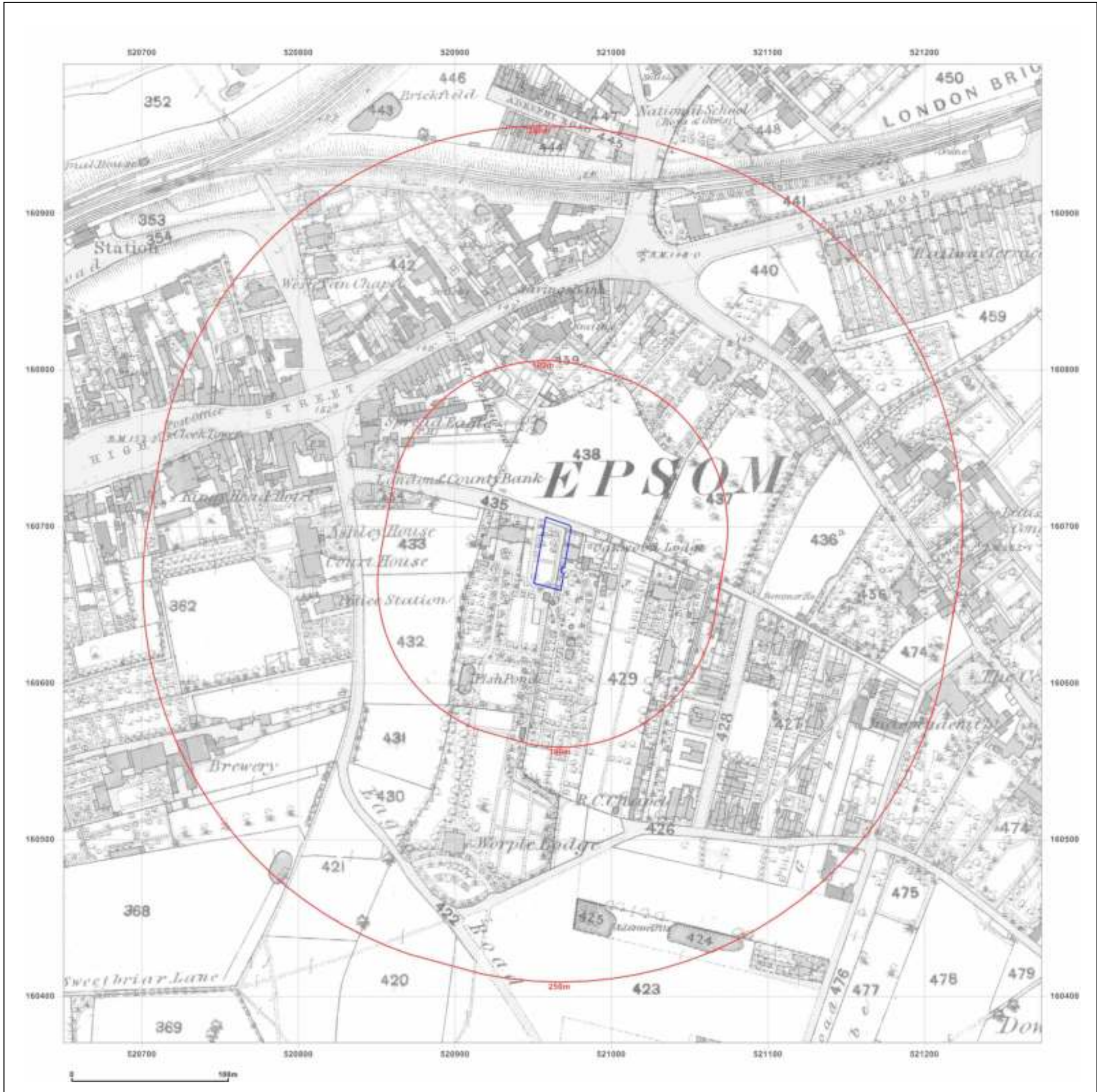


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Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)



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EPSOM SURREY, KT18 5DH

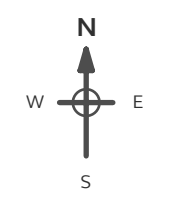
**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683


**Map Name:** County Series

**Map date:** 1896

**Scale:** 1:2,500

**Printed at:** 1:2,500





Surveyed 1896  
Revised 1896  
Edition N/A  
Copyright N/A  
Levelled N/A

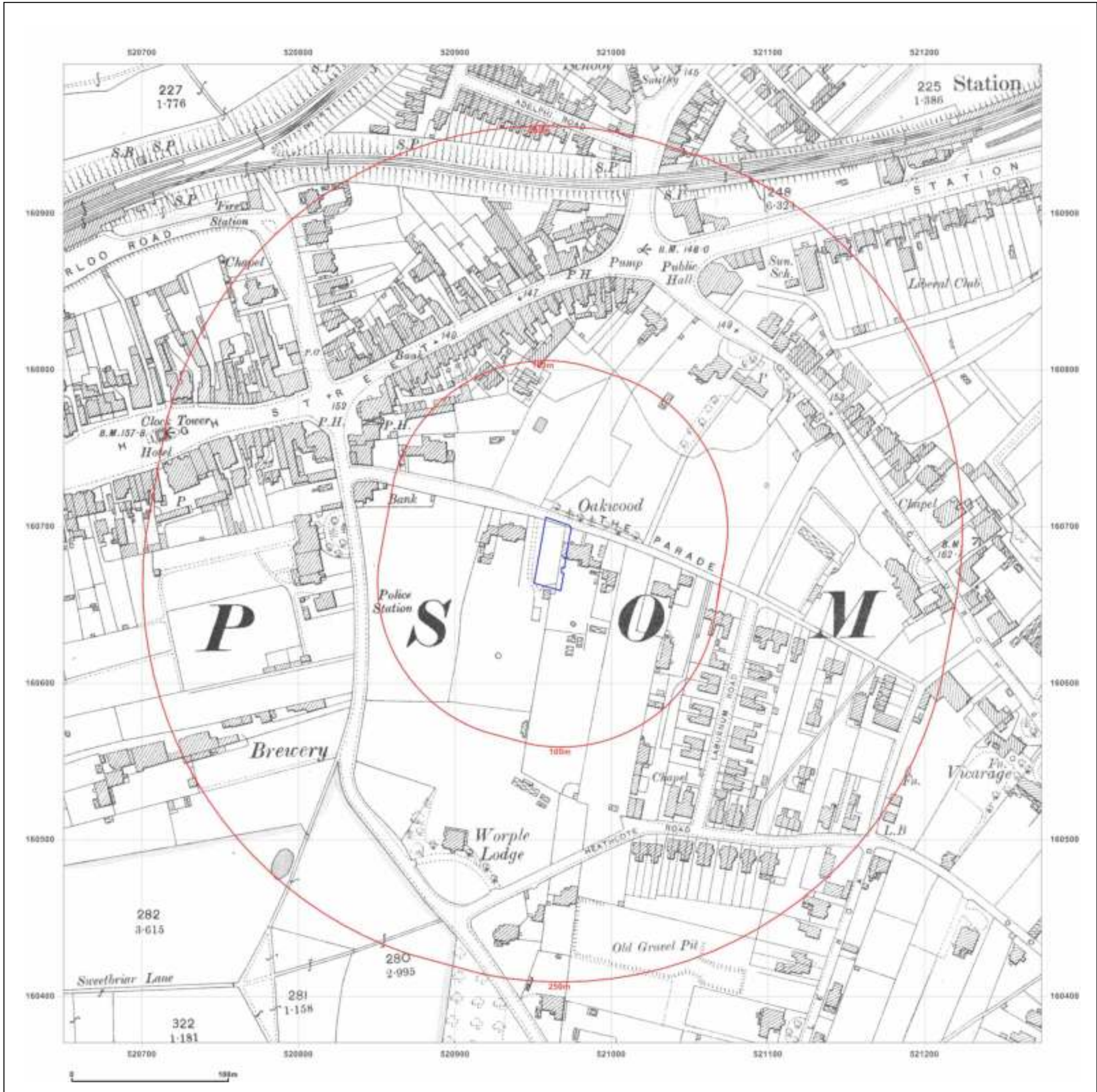


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**Site Details:**

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EPSOM SURREY, KT18 5DH

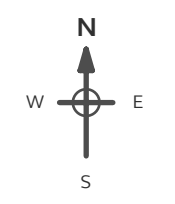
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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683


**Map Name:** County Series

**Map date:** 1913

**Scale:** 1:2,500

**Printed at:** 1:2,500





Surveyed 1913  
Revised 1913  
Edition N/A  
Copyright N/A  
Levelled N/A

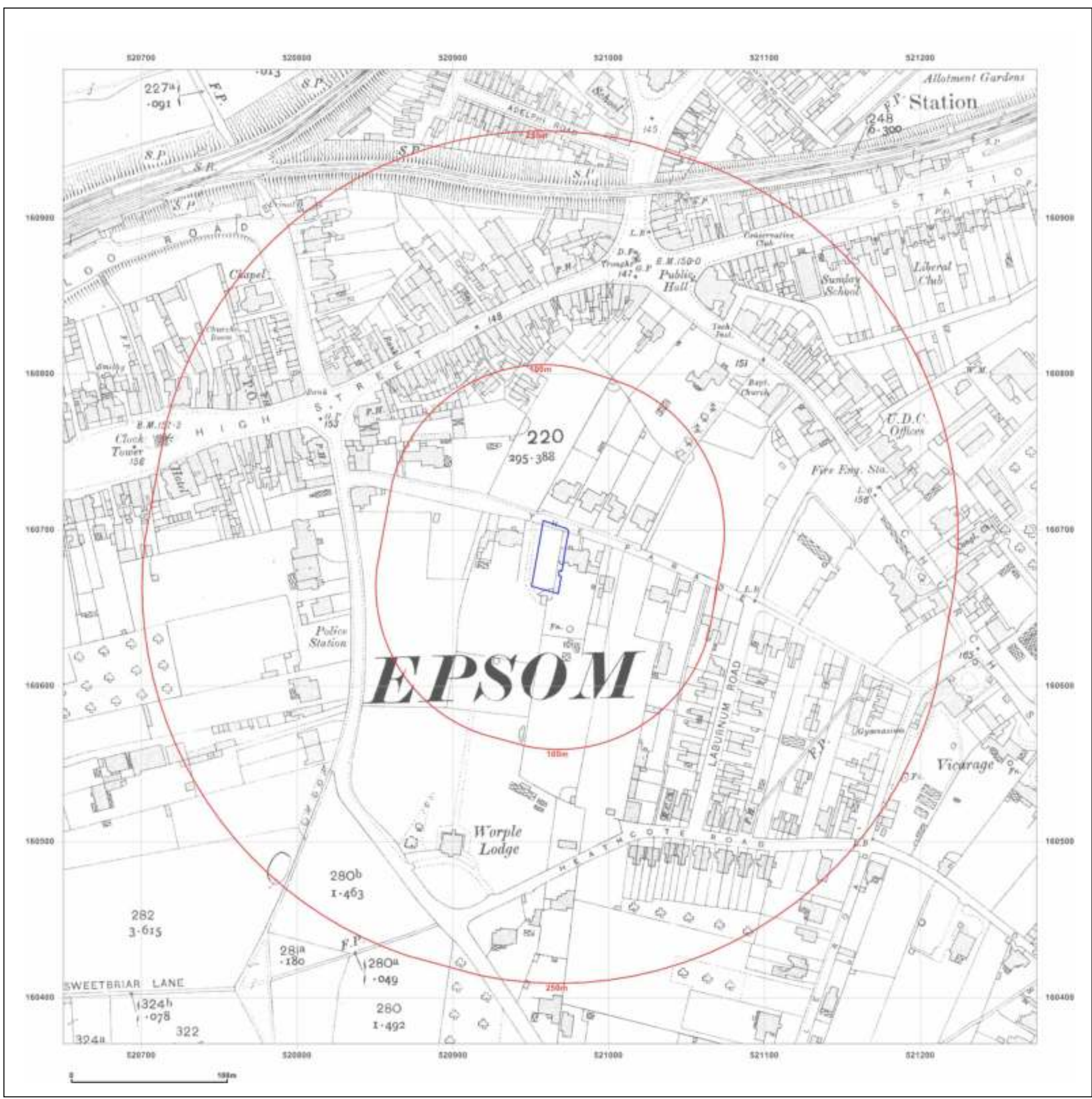


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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

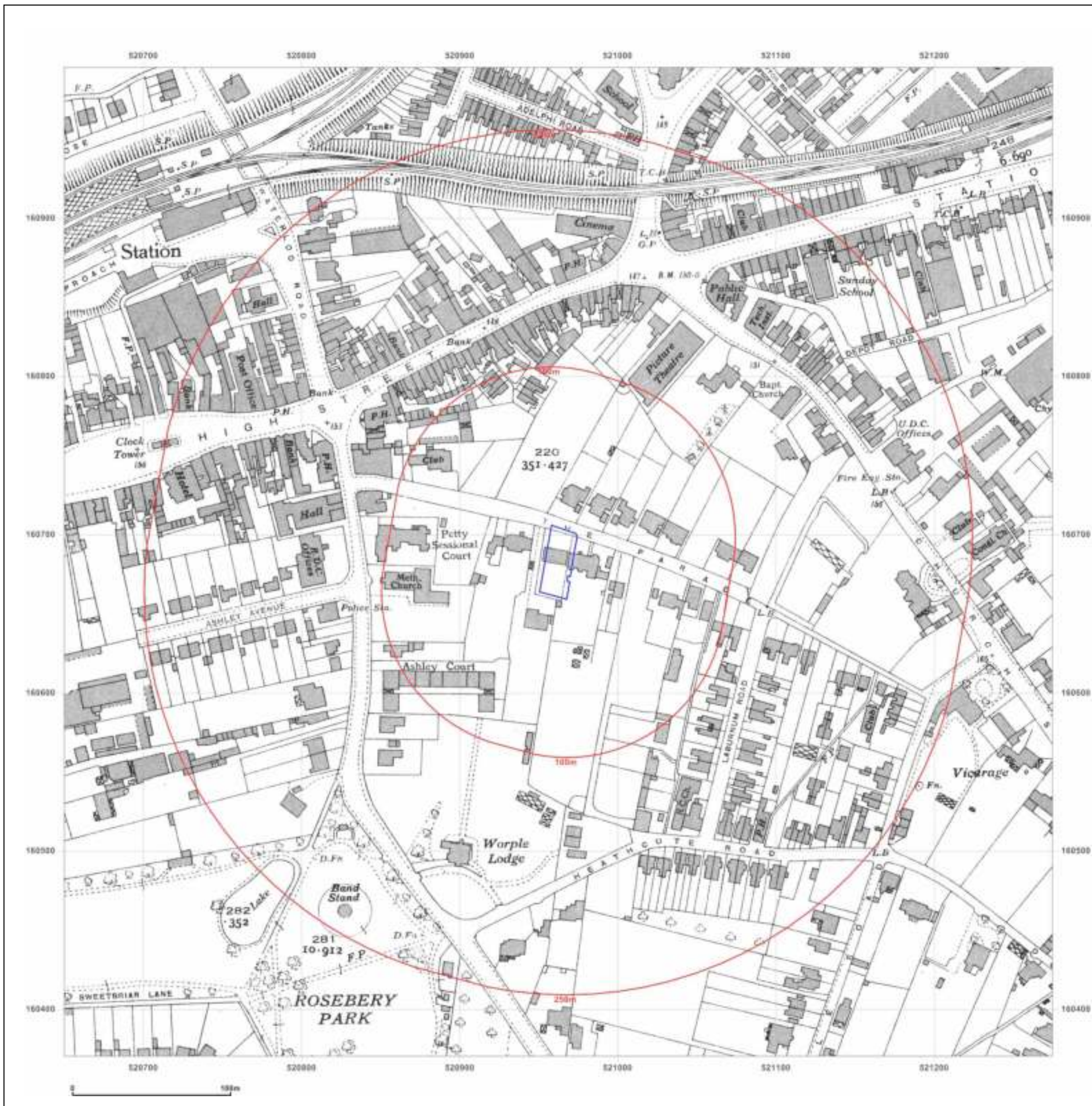


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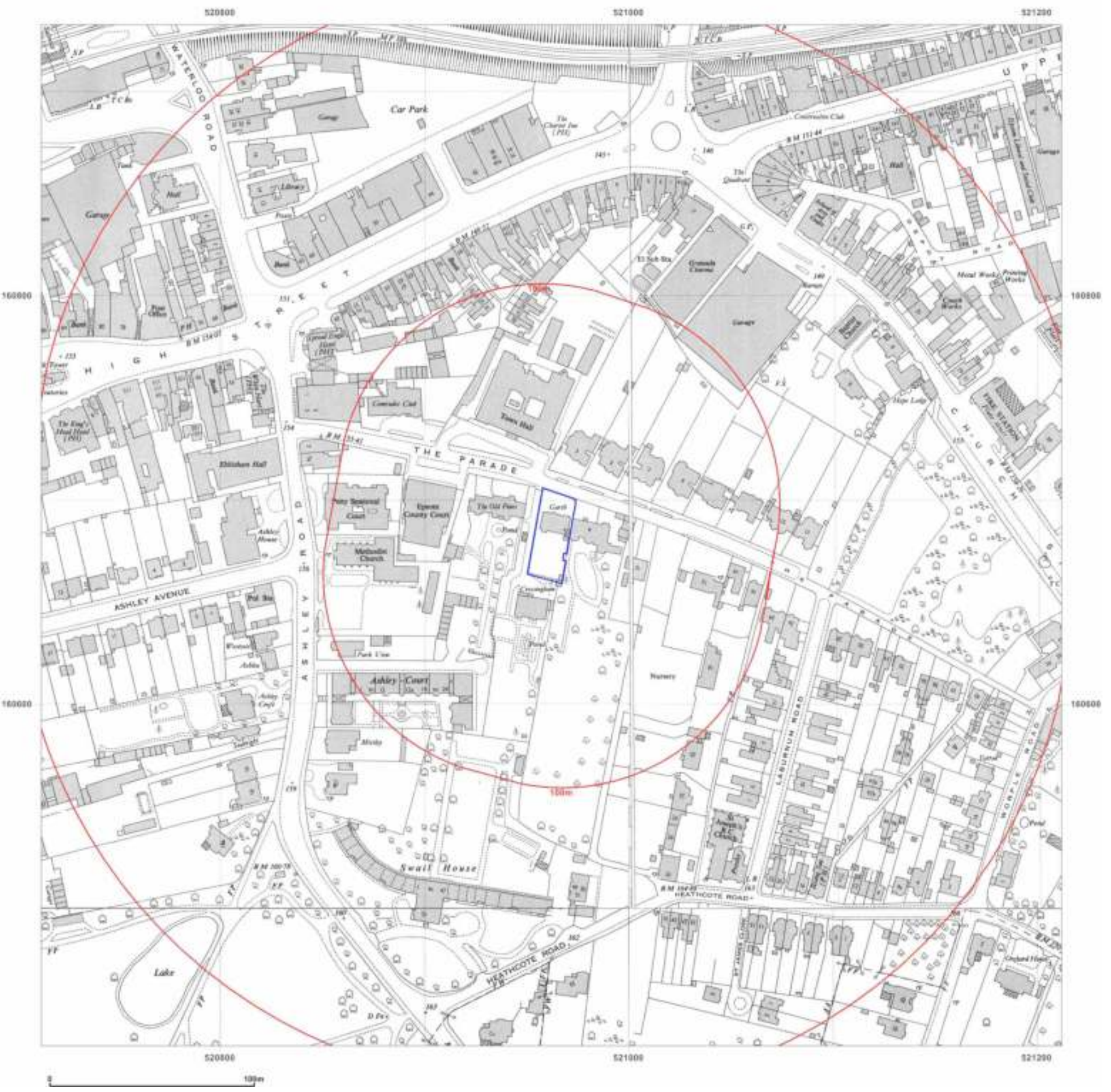
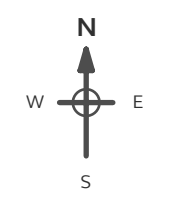
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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1952-1953

**Scale:** 1:1,250

**Printed at:** 1:2,000



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Surveyed 1952 Revised 1952 Edition N/A Copyright N/A Levelled N/A	Surveyed 1953 Revised 1953 Edition N/A Copyright N/A Levelled 1949



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**Client Ref:** 20\_11876\_KJC\_13696  
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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1952-1953

**Scale:** 1:2,500

**Printed at:** 1:2,500



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Surveyed 1953  
Revised 1953  
Edition 1955  
Copyright N/A  
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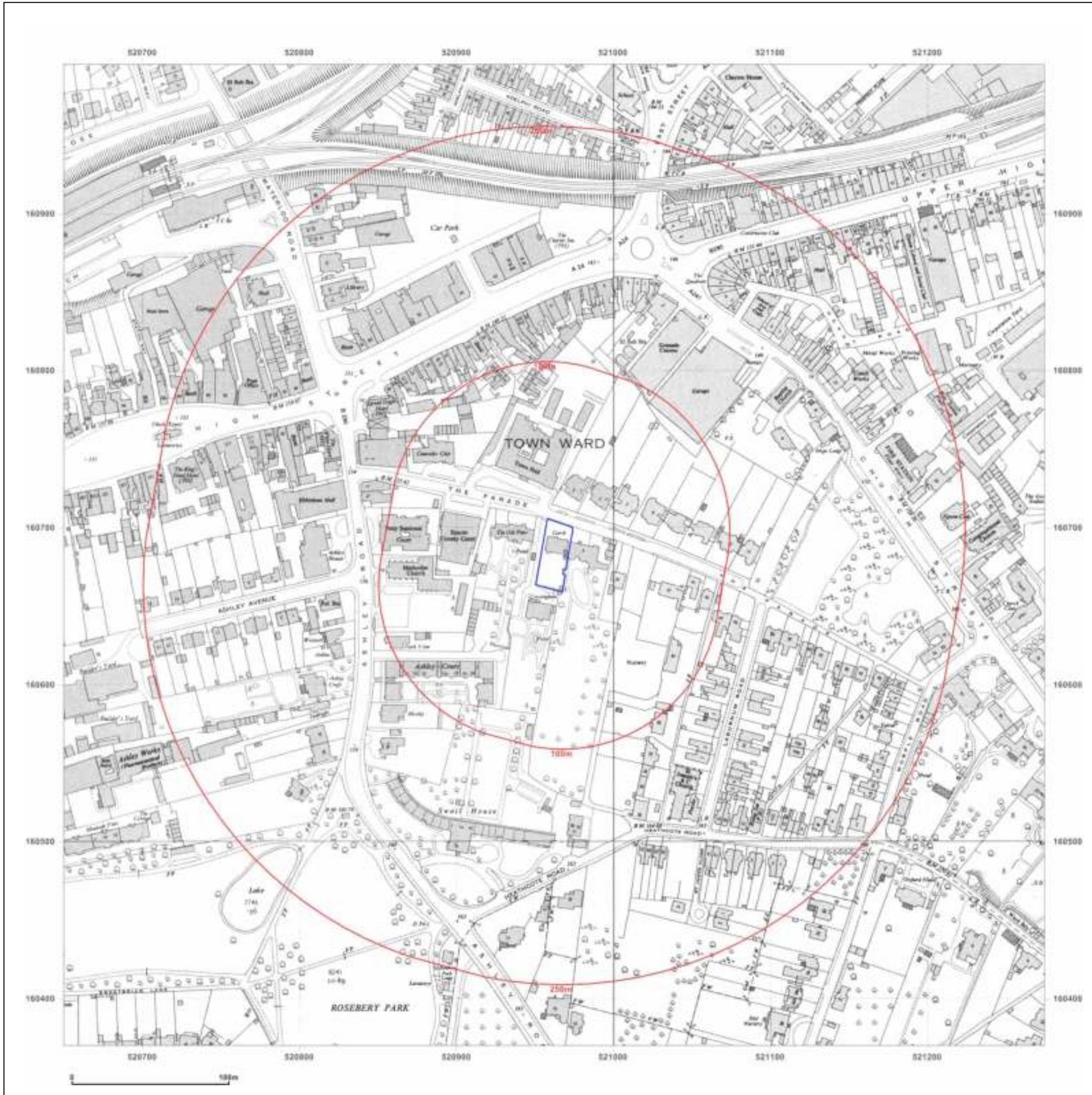


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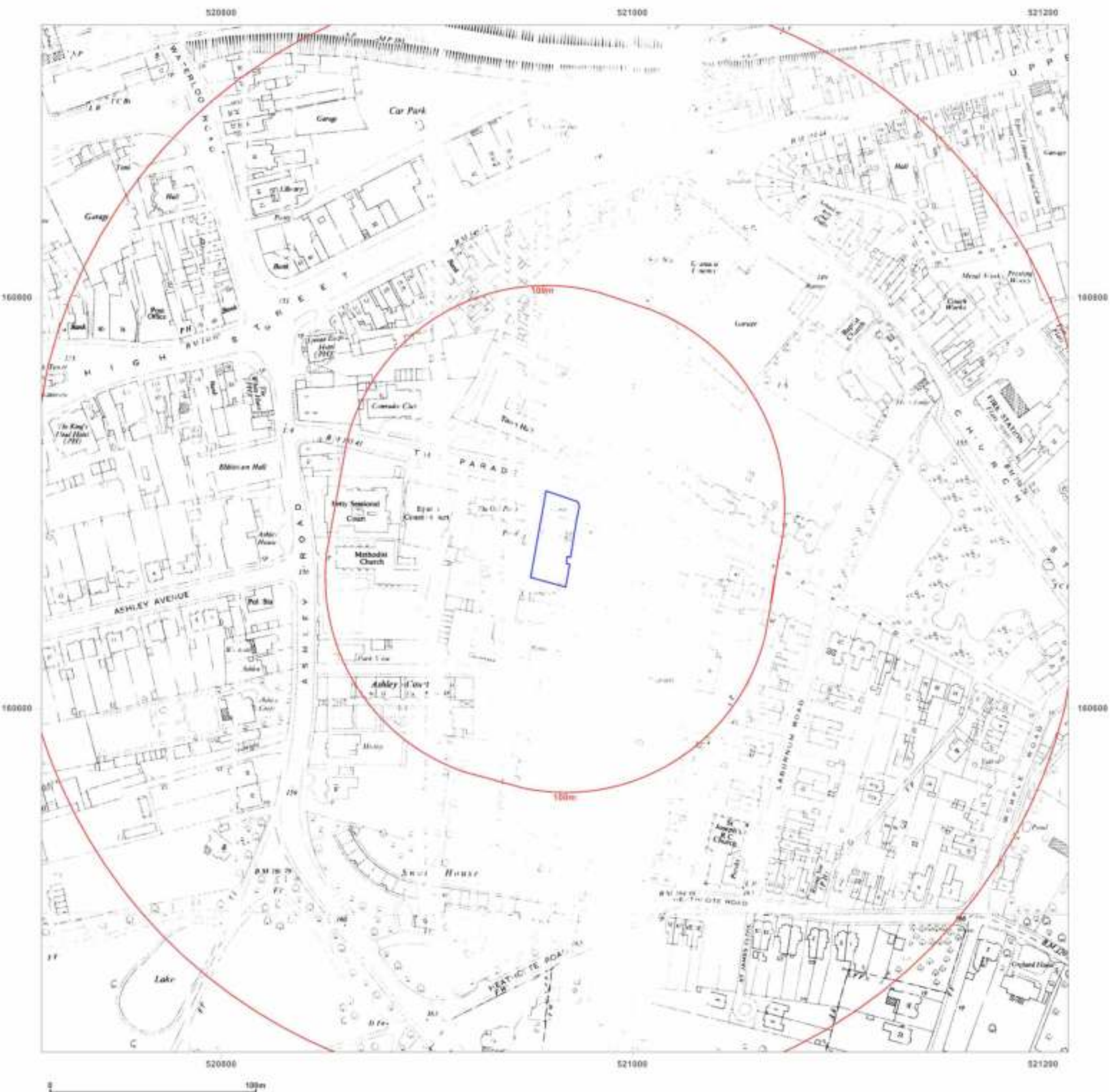
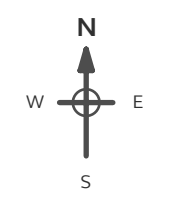
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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1954

**Scale:** 1:1,250

**Printed at:** 1:2,000



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1961

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1961  
Revised 1961  
Edition 1962  
Copyright 1962  
Levelled 1950

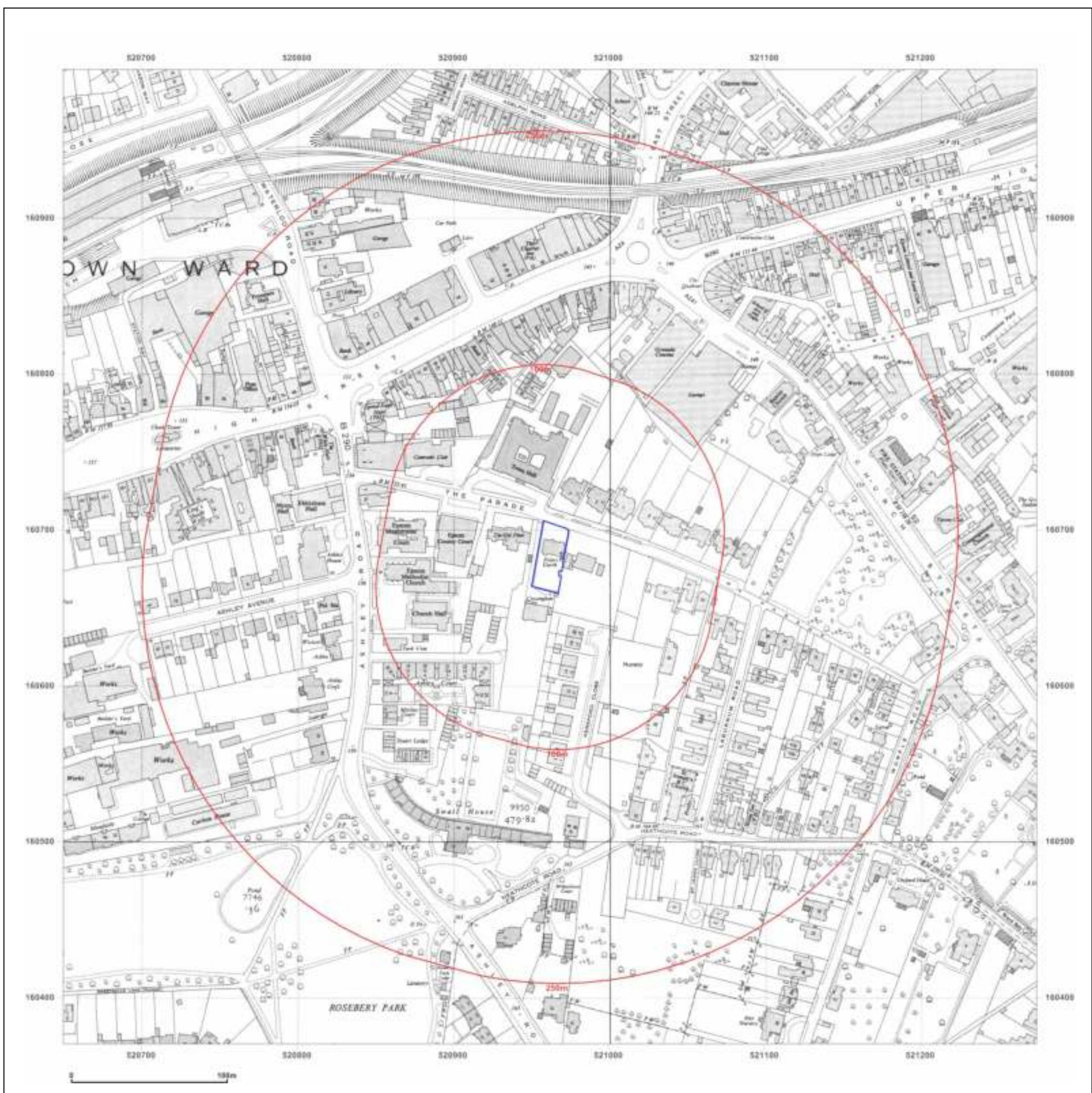


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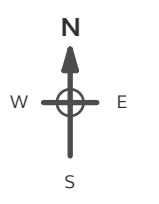


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**Map Name:** National Grid  
**Map date:** 1961-1962  
**Scale:** 1:1,250  
**Printed at:** 1:2,000



<p>Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1949</p>	<p>Surveyed 1952 Revised 1960 Edition N/A Copyright 1961 Levelled 1949</p>
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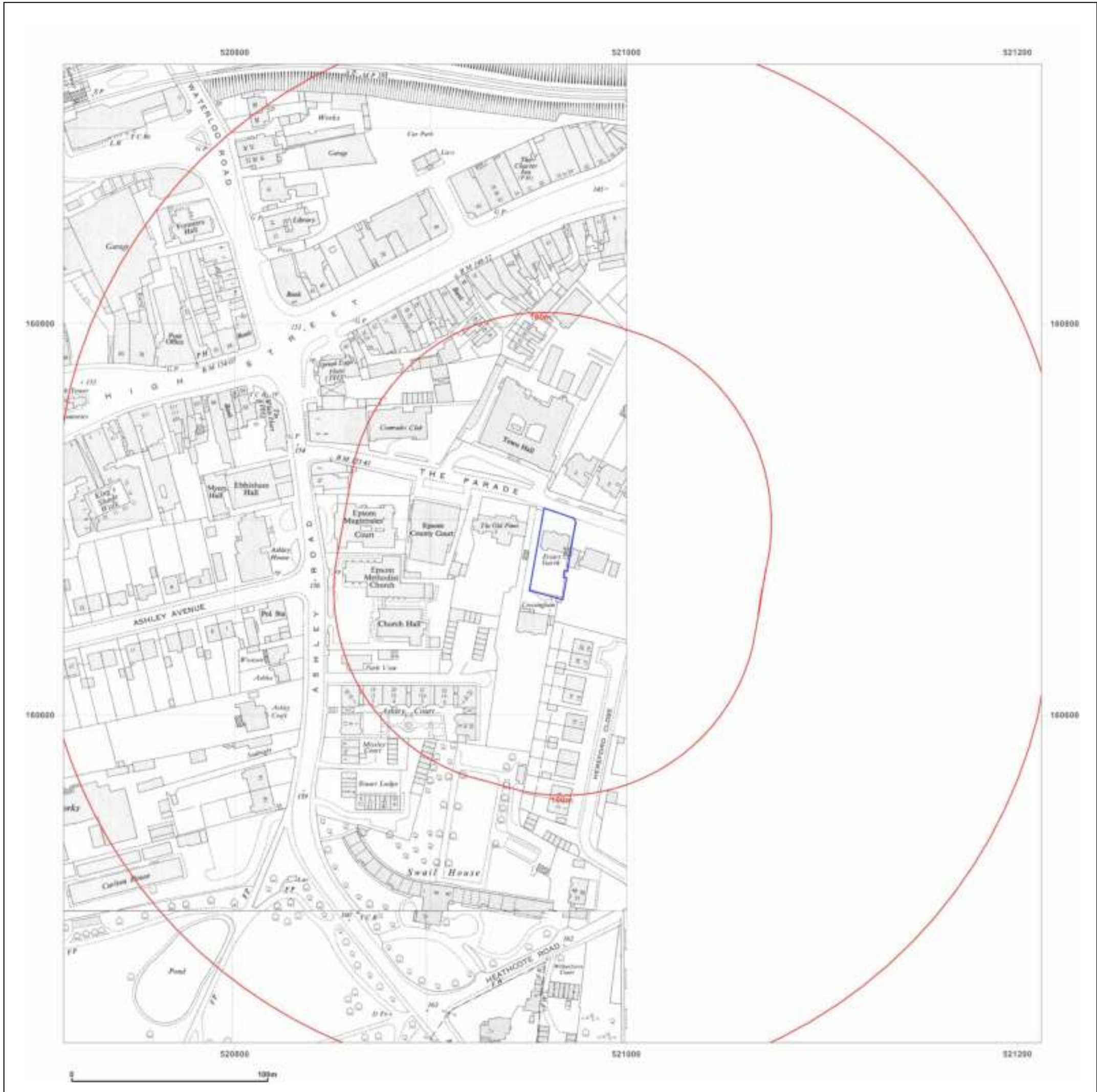


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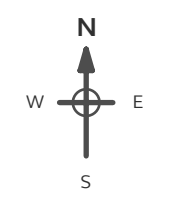
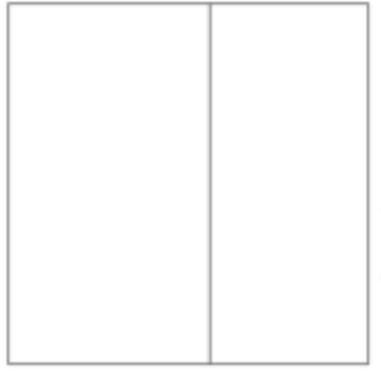
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**Map Name:** National Grid

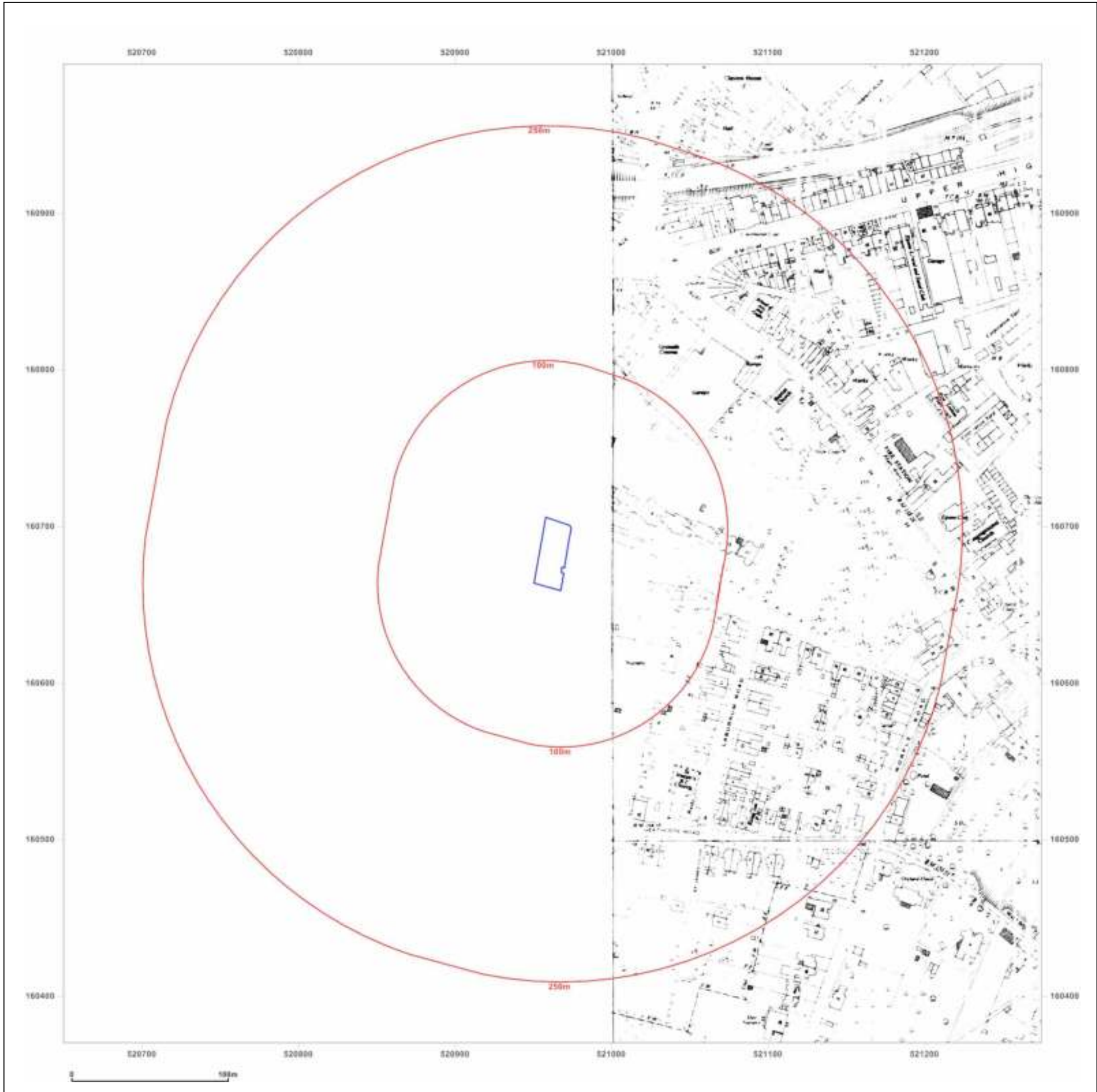
**Map date:** 1962

**Scale:** 1:2,500

**Printed at:** 1:2,500

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**Client Ref:** 20\_11876\_KJC\_13696  
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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1967-1970

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1952 Revised 1967 Edition N/A Copyright 1968 Levelled 1963	Surveyed 1953 Revised 1969 Edition N/A Copyright 1970 Levelled 1963
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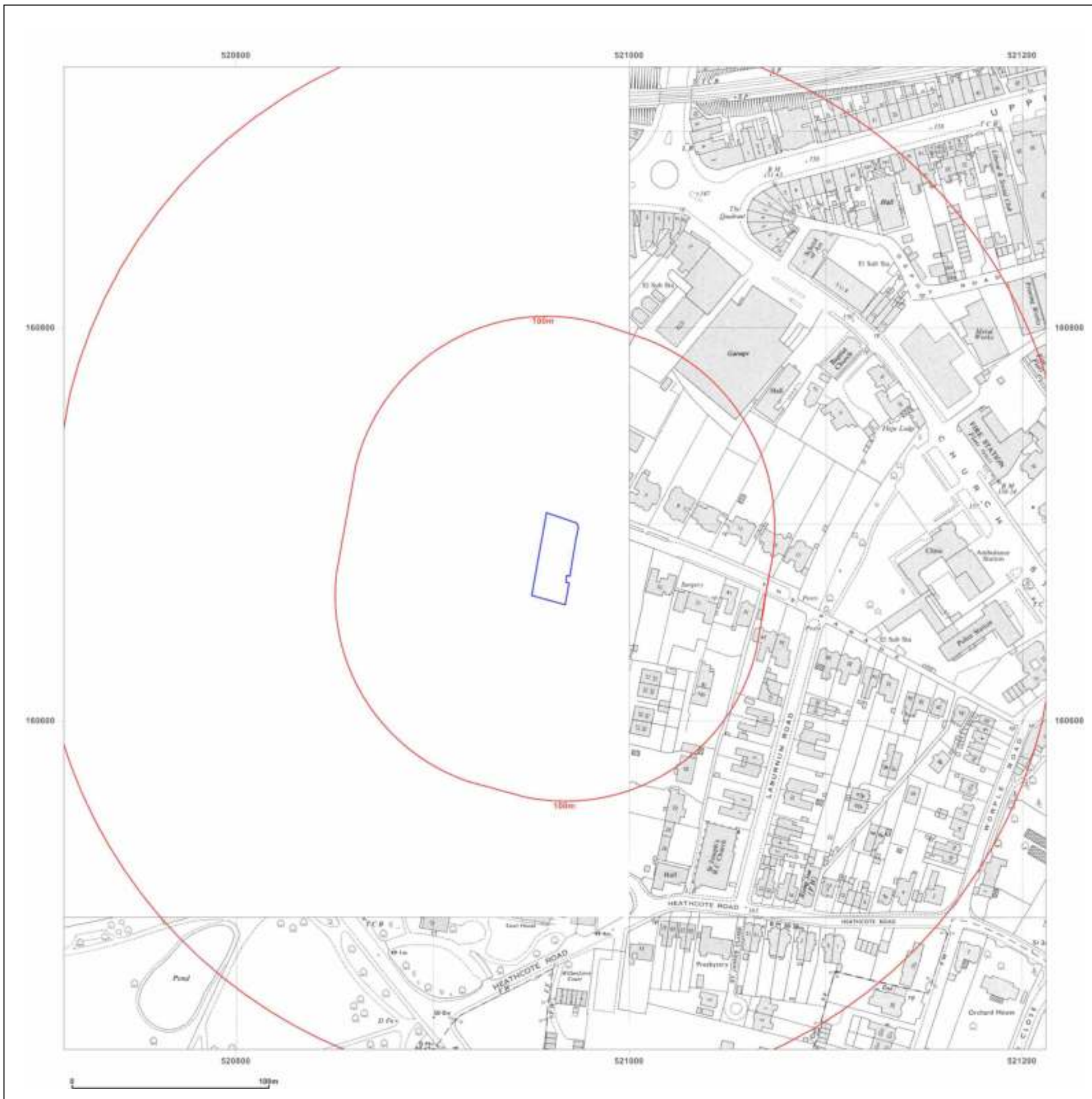


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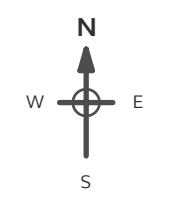
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**Map Name:** National Grid

**Map date:** 1968-1973

**Scale:** 1:1,250

**Printed at:** 1:2,000



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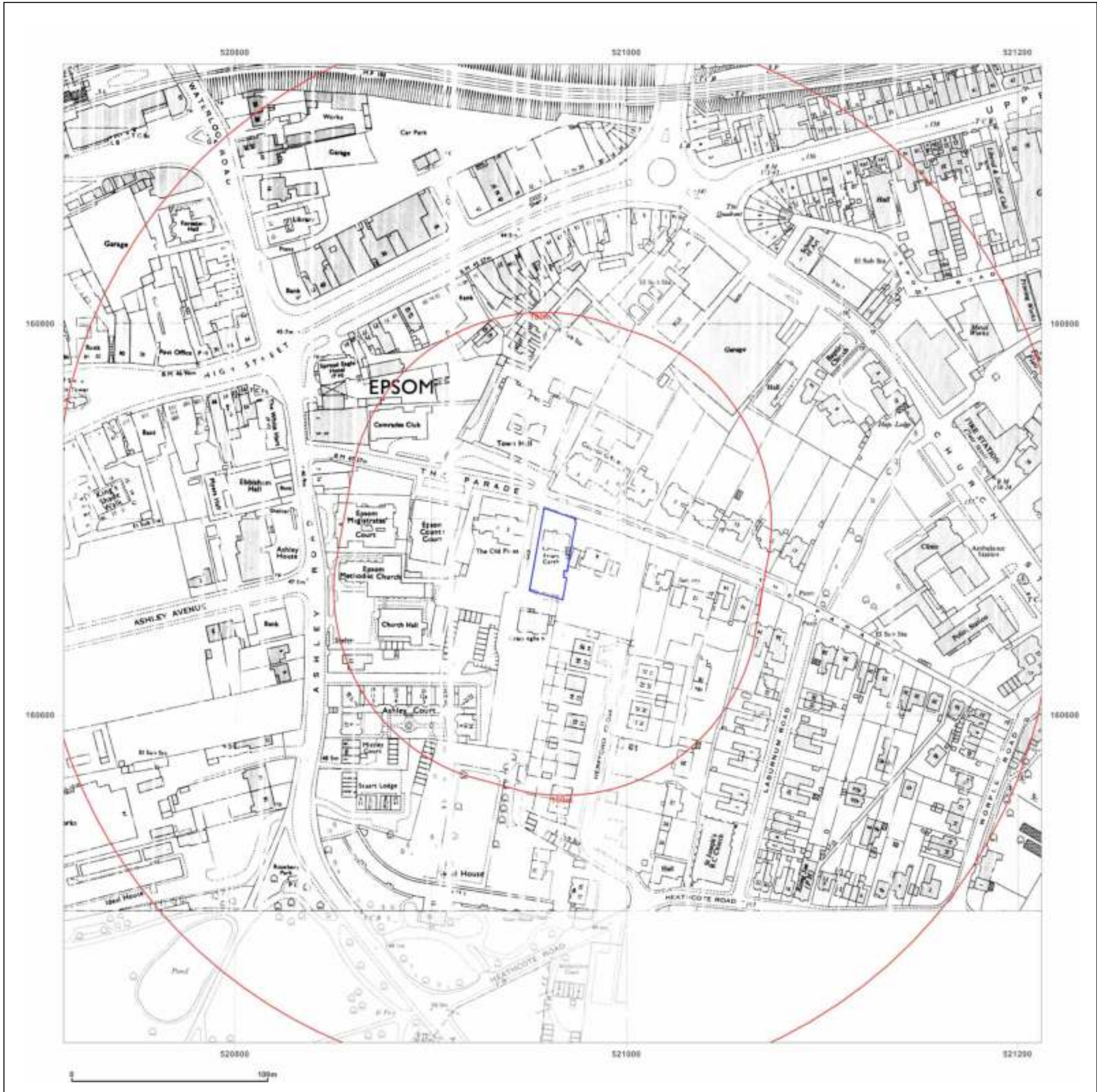


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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1973-1978

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1952  
Revised 1973  
Edition N/A  
Copyright 1973  
Levelled 1963

Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1978  
Levelled N/A

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

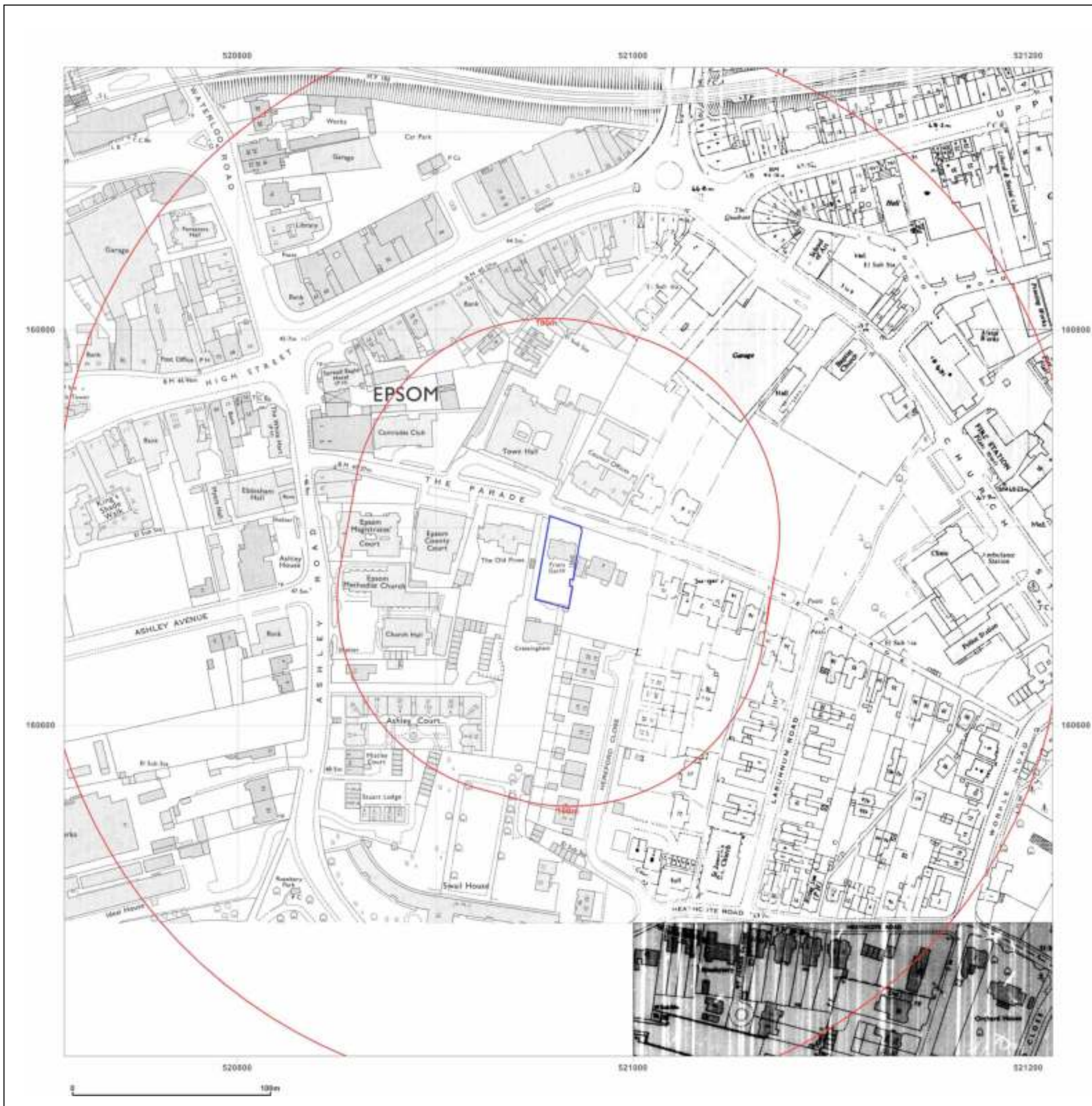


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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1986-1990

**Scale:** 1:1,250

**Printed at:** 1:2,000



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Levelled 1963

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Revised 1990  
Edition N/A  
Copyright 1990  
Levelled 1963

Surveyed 1964  
Revised 1986  
Edition N/A  
Copyright 1986  
Levelled 1964

Surveyed 1964  
Revised 1989  
Edition N/A  
Copyright 1989  
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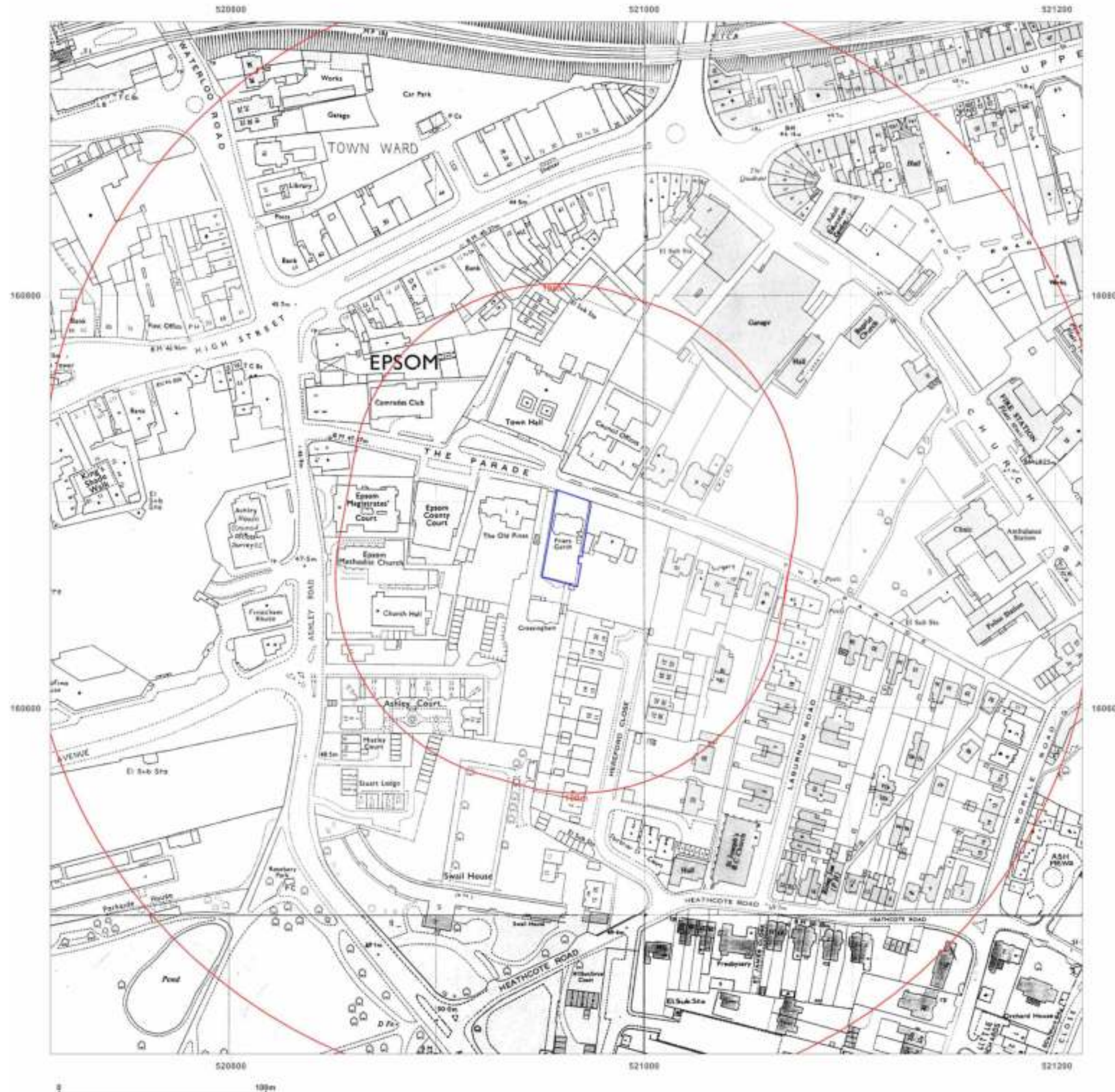


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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:1,250

**Printed at:** 1:2,000



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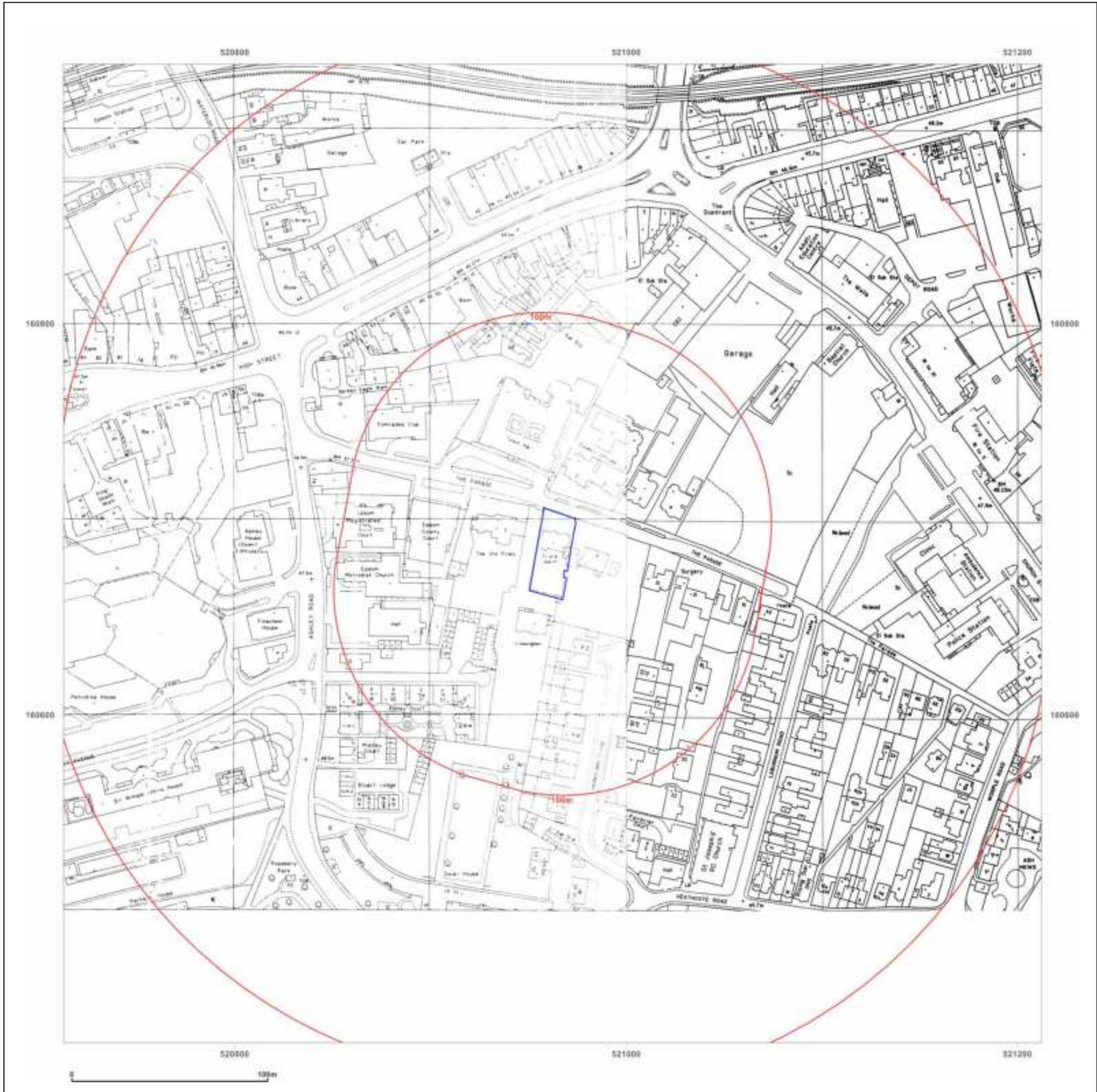


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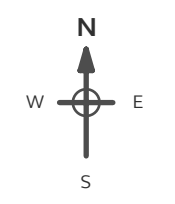
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**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:1,250

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

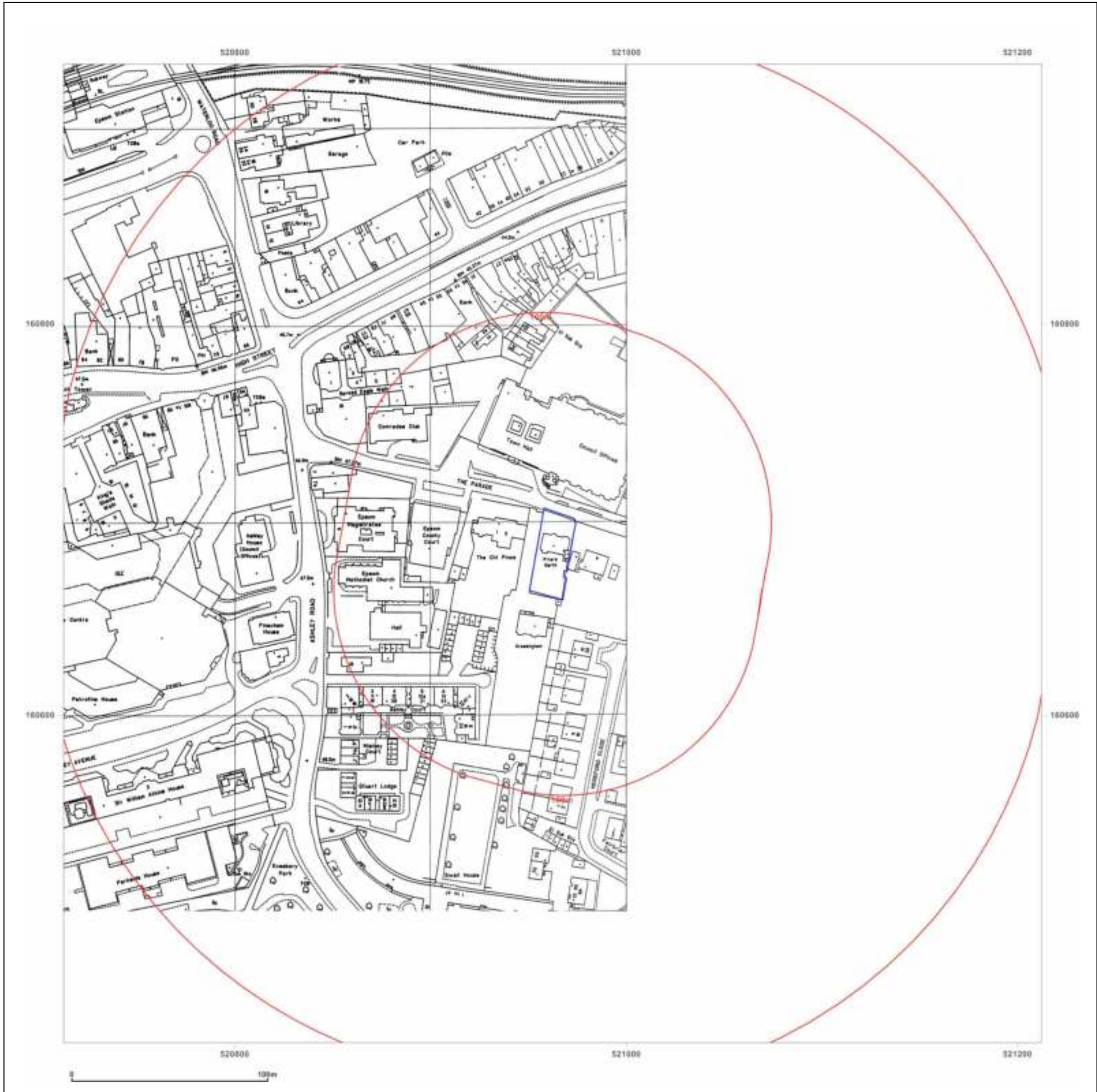


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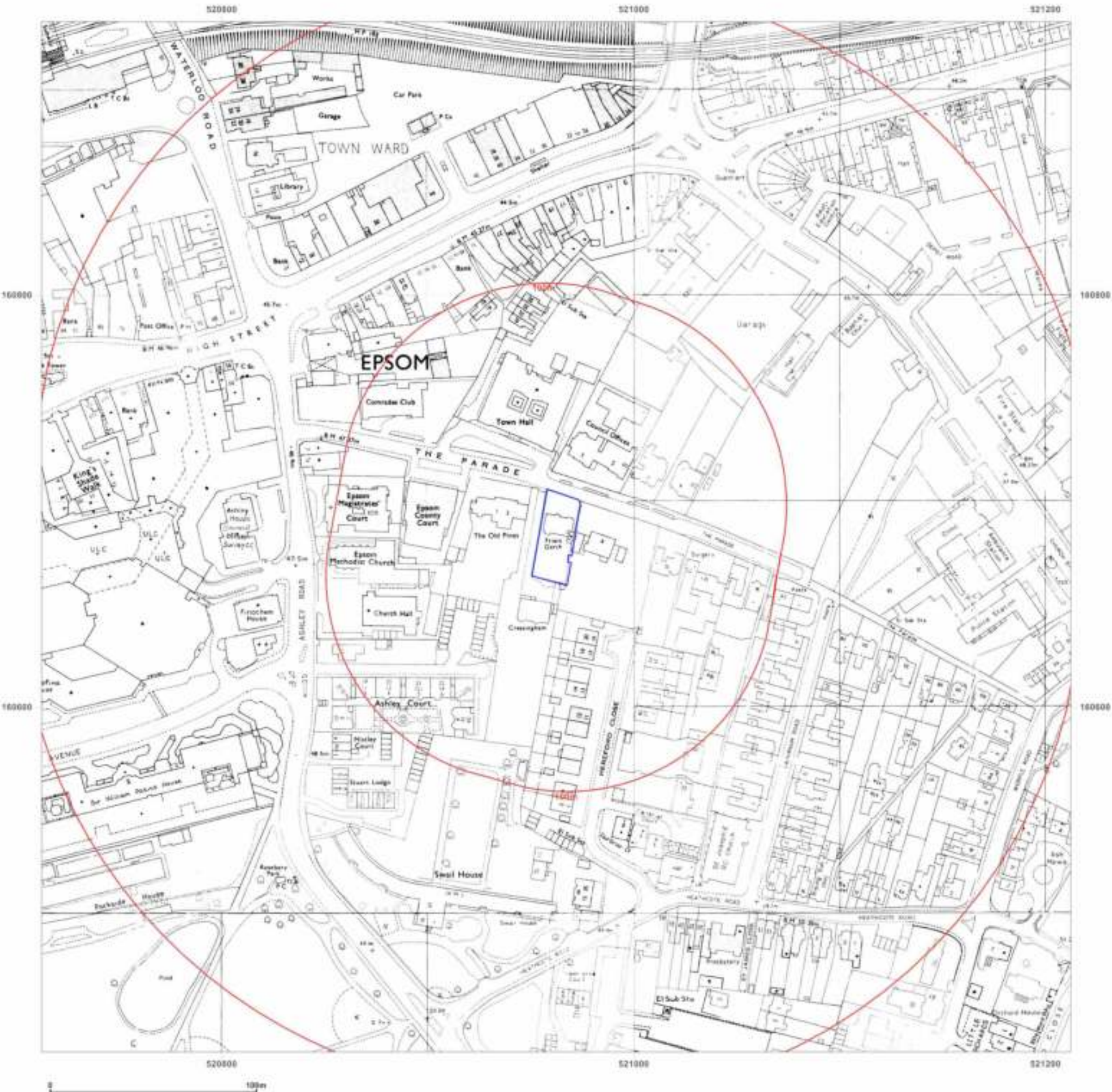
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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1989-1992

**Scale:** 1:1,250

**Printed at:** 1:2,000



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Edition N/A  
Copyright 1989  
Levelled 1963

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Revised N/A  
Edition N/A  
Copyright 1992  
Levelled N/A

Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1992  
Levelled N/A

Surveyed 1964  
Revised 1989  
Edition N/A  
Copyright 1989  
Levelled 1964



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:1,250

**Printed at:** 1:2,000



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Revised N/A  
Edition N/A  
Copyright 1992  
Levelled N/A

Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1992  
Levelled N/A

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

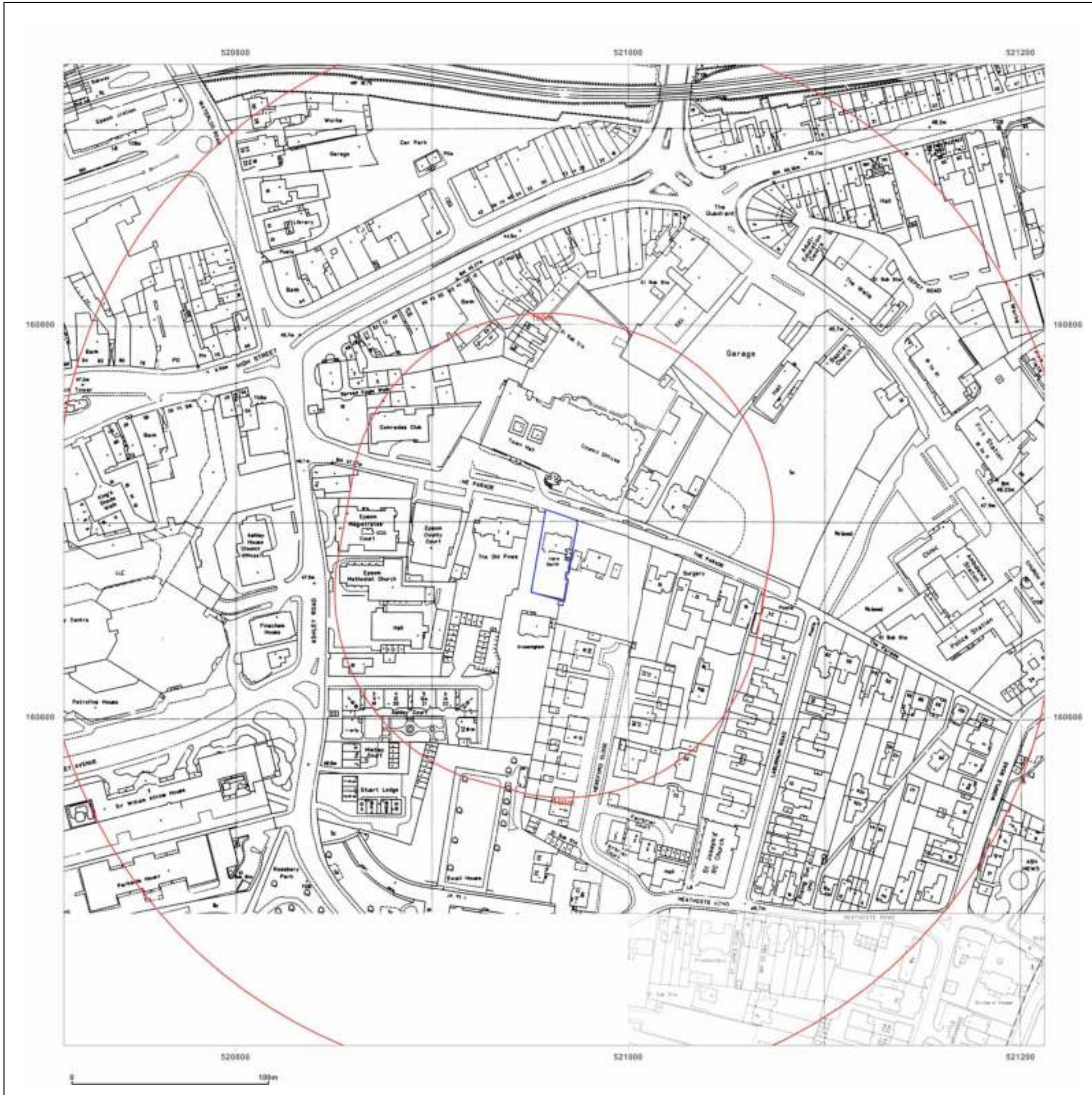


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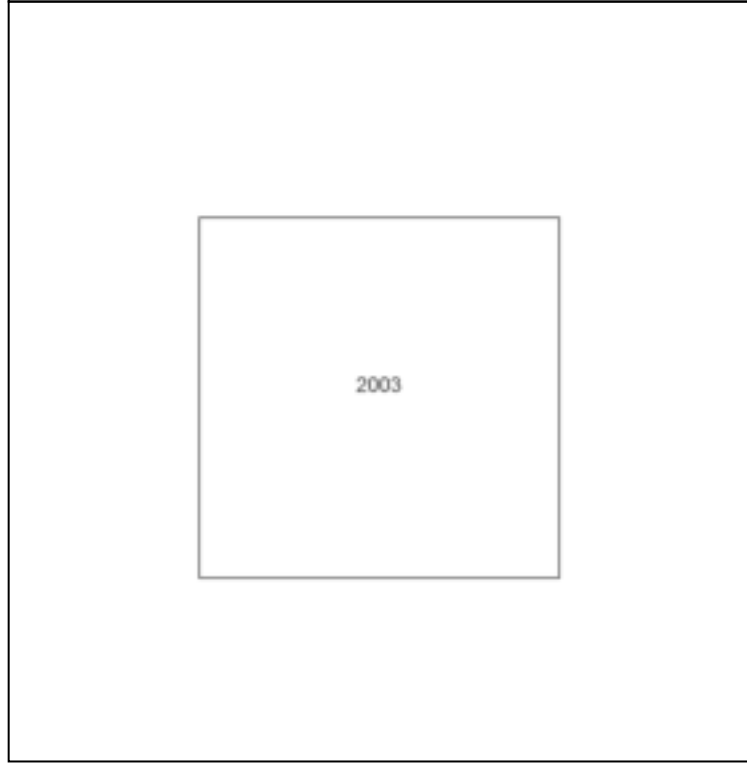
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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1866

**Scale:** 1:10,560

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



Surveyed 1866  
Revised 1866  
Edition N/A  
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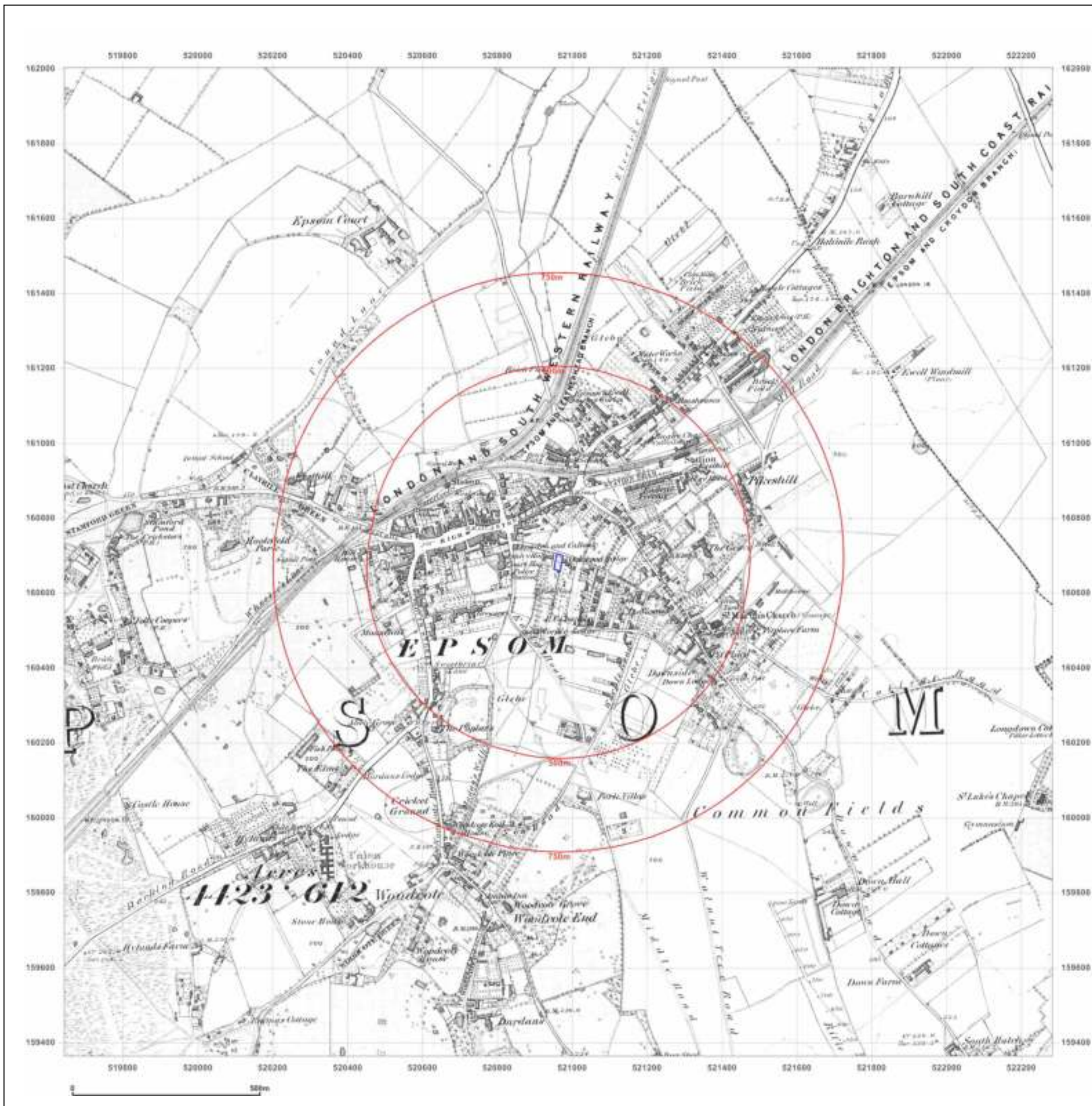


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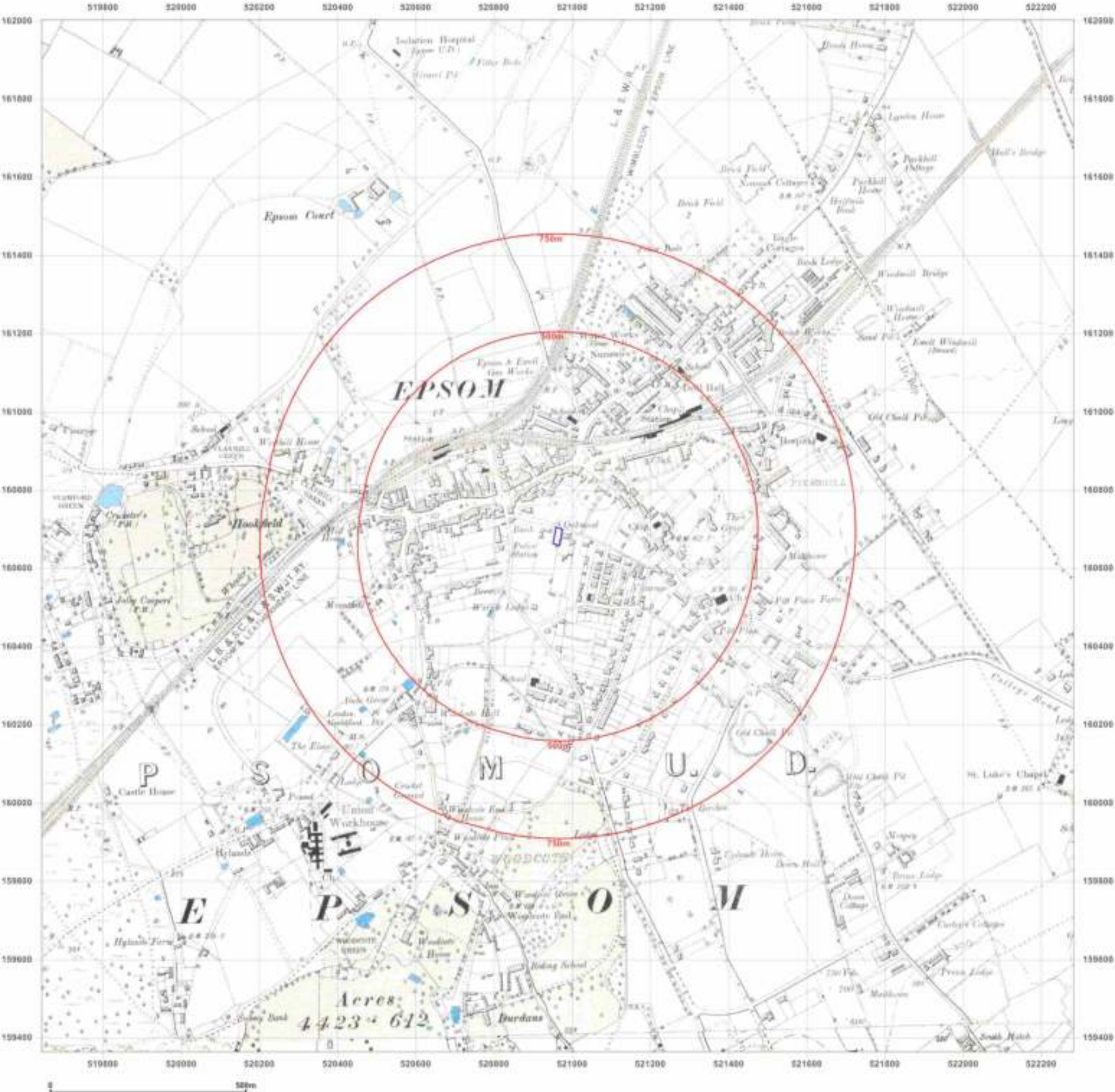
**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1895-1897

**Scale:** 1:10,560

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



Surveyed 1867  
Revised 1895  
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Surveyed 1869  
Revised 1895  
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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1897

**Scale:** 1:10,560

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



Surveyed 1867  
Revised 1895  
Edition N/A  
Copyright N/A  
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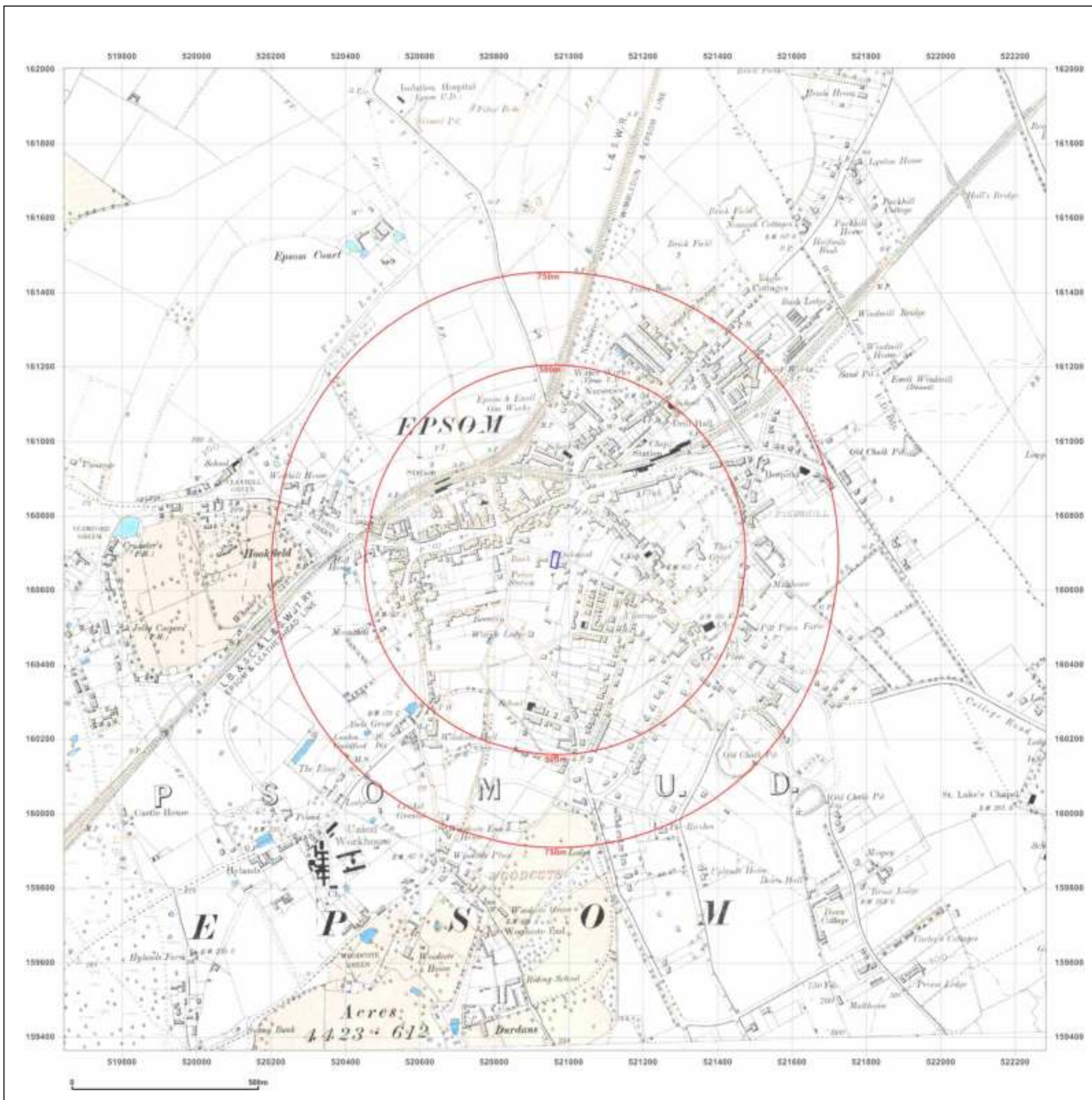


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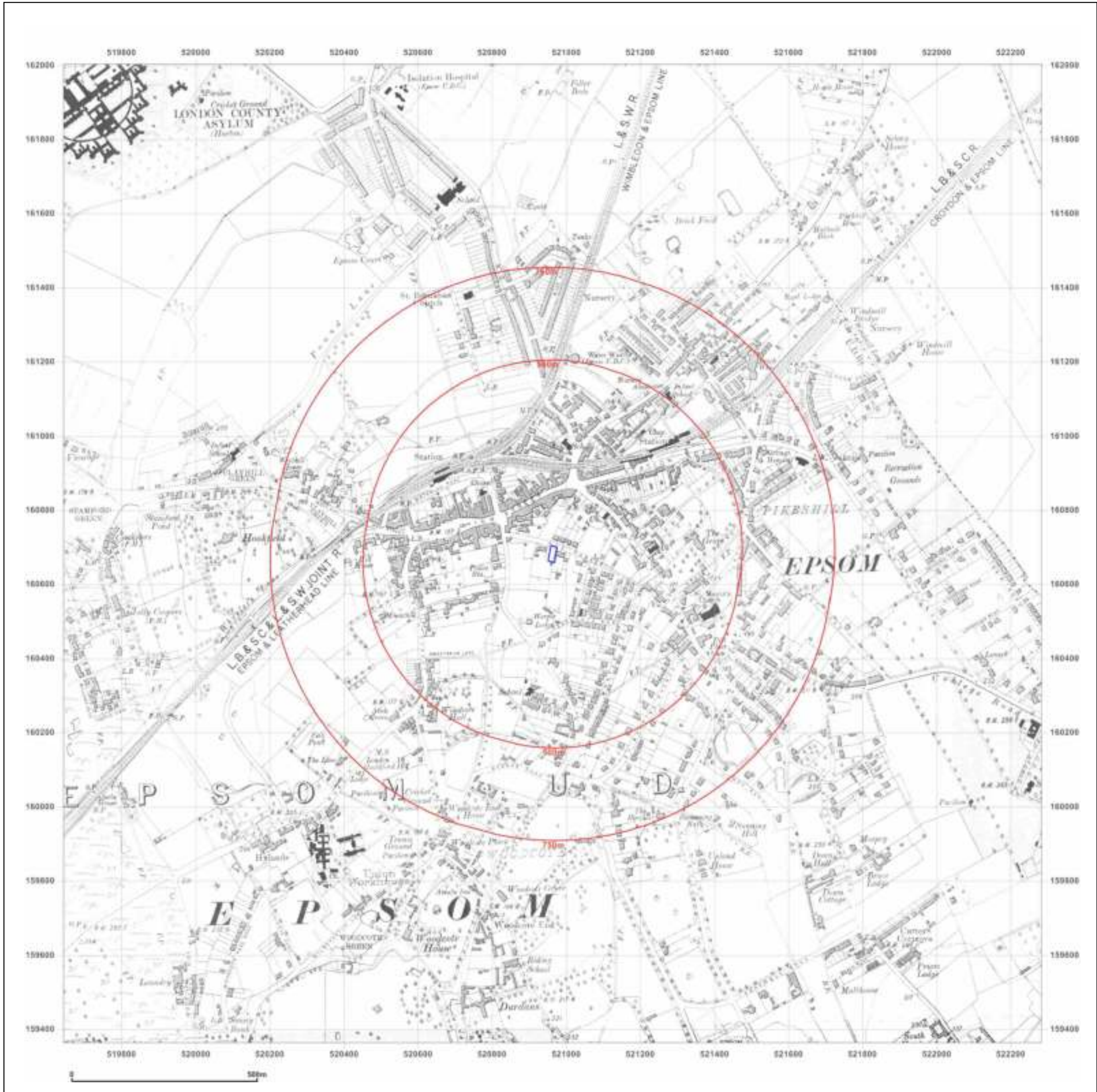
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**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1912

**Scale:** 1:10,560

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



Surveyed 1867  
Revised 1912  
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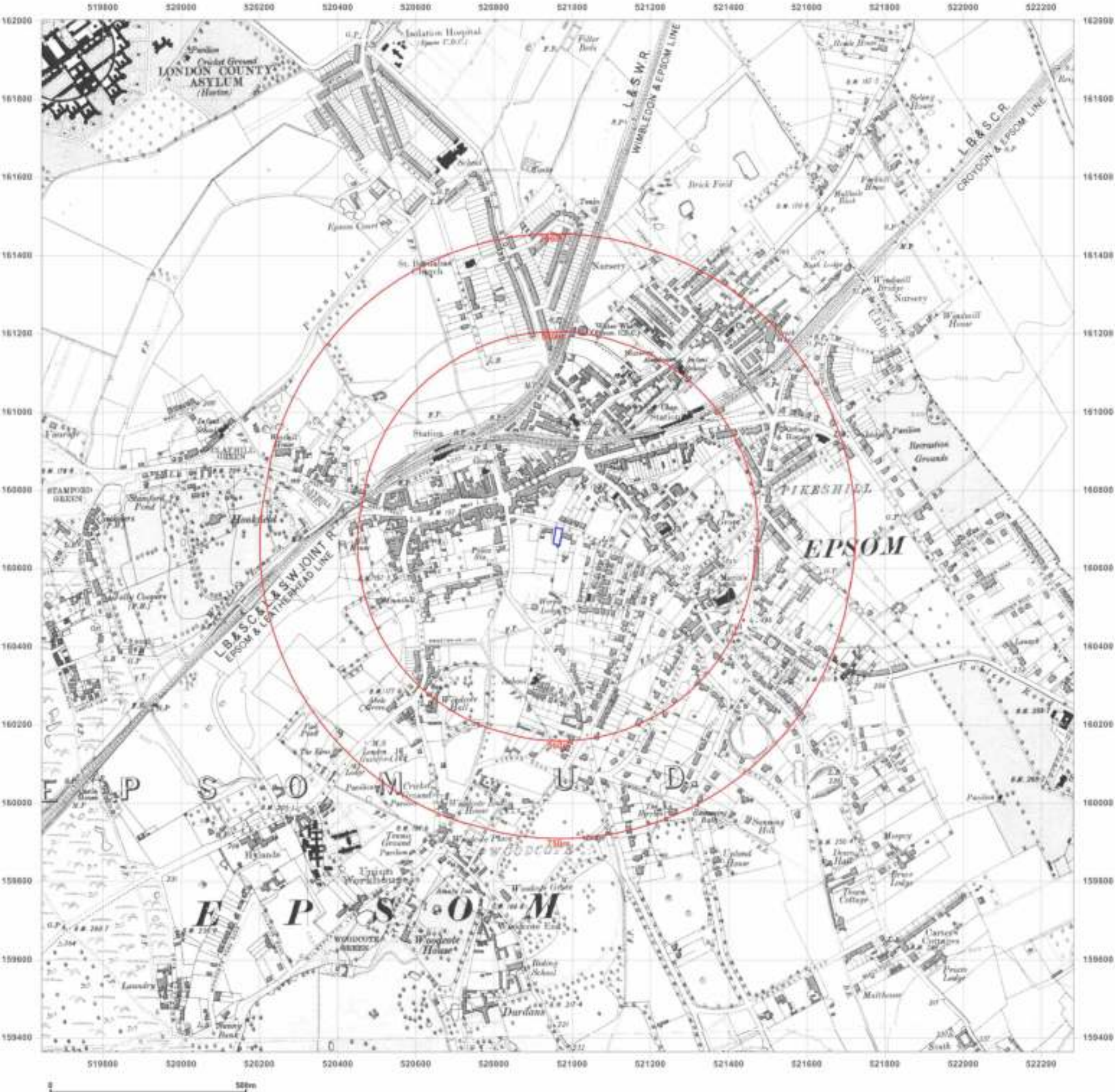
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**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1912

**Scale:** 1:10,560

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



Surveyed 1867  
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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1932-1933

**Scale:** 1:10,560

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



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

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



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

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



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** Provisional

**Map date:** 1961-1962

**Scale:** 1:10,560

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



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Revised 1961  
Edition 1962  
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Surveyed 1962  
Revised 1962  
Edition N/A  
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Revised 1959  
Edition N/A  
Copyright 1961  
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Surveyed 1869  
Revised 1955  
Edition N/A  
Copyright N/A  
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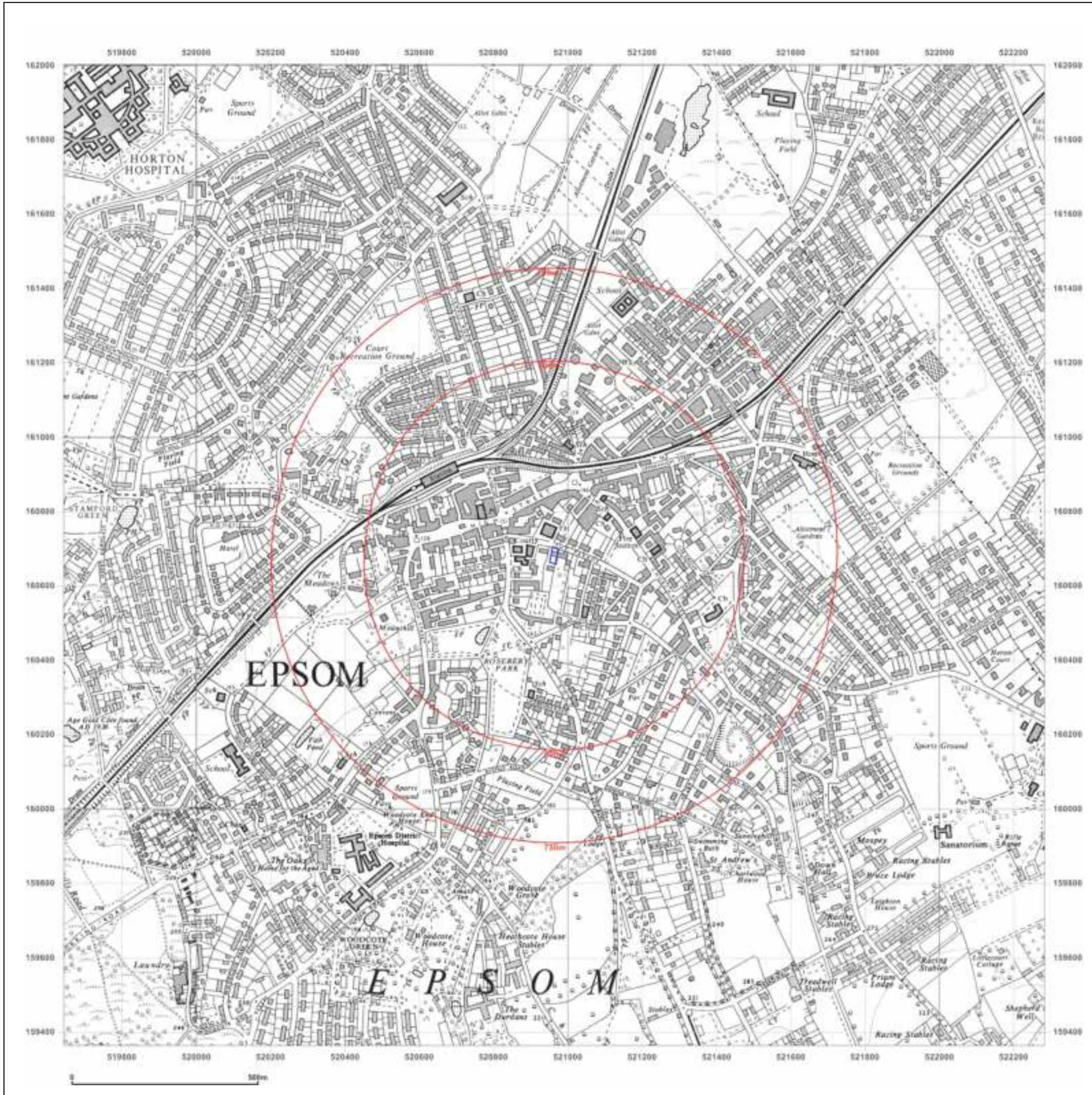


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**Client Ref:** 20\_11876\_KJC\_13696  
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**Map Name:** Provisional

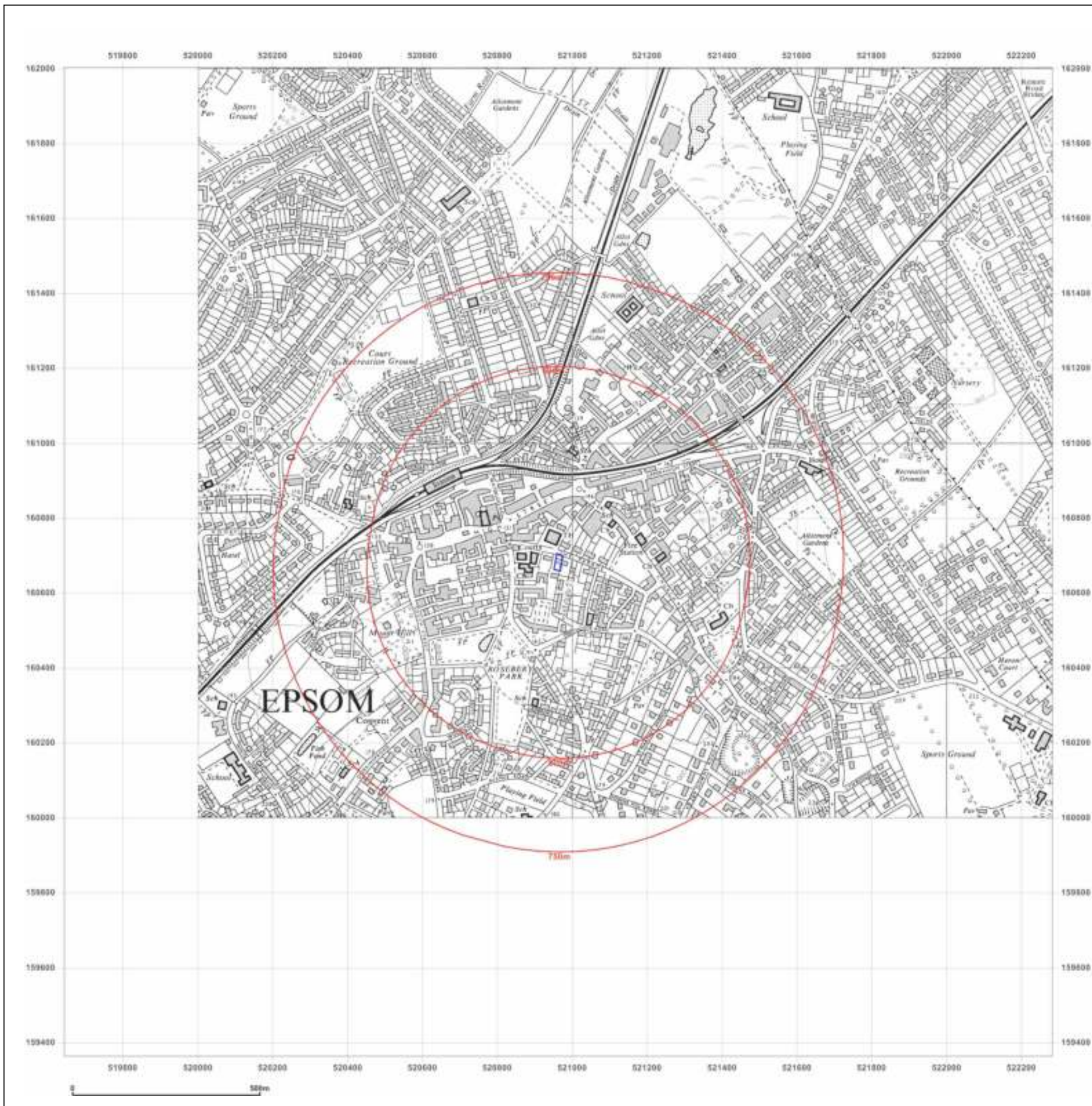
**Map date:** 1965

**Scale:** 1:10,560

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



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**Client Ref:** 20\_11876\_KJC\_13696  
**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1972-1974

**Scale:** 1:10,000

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



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

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

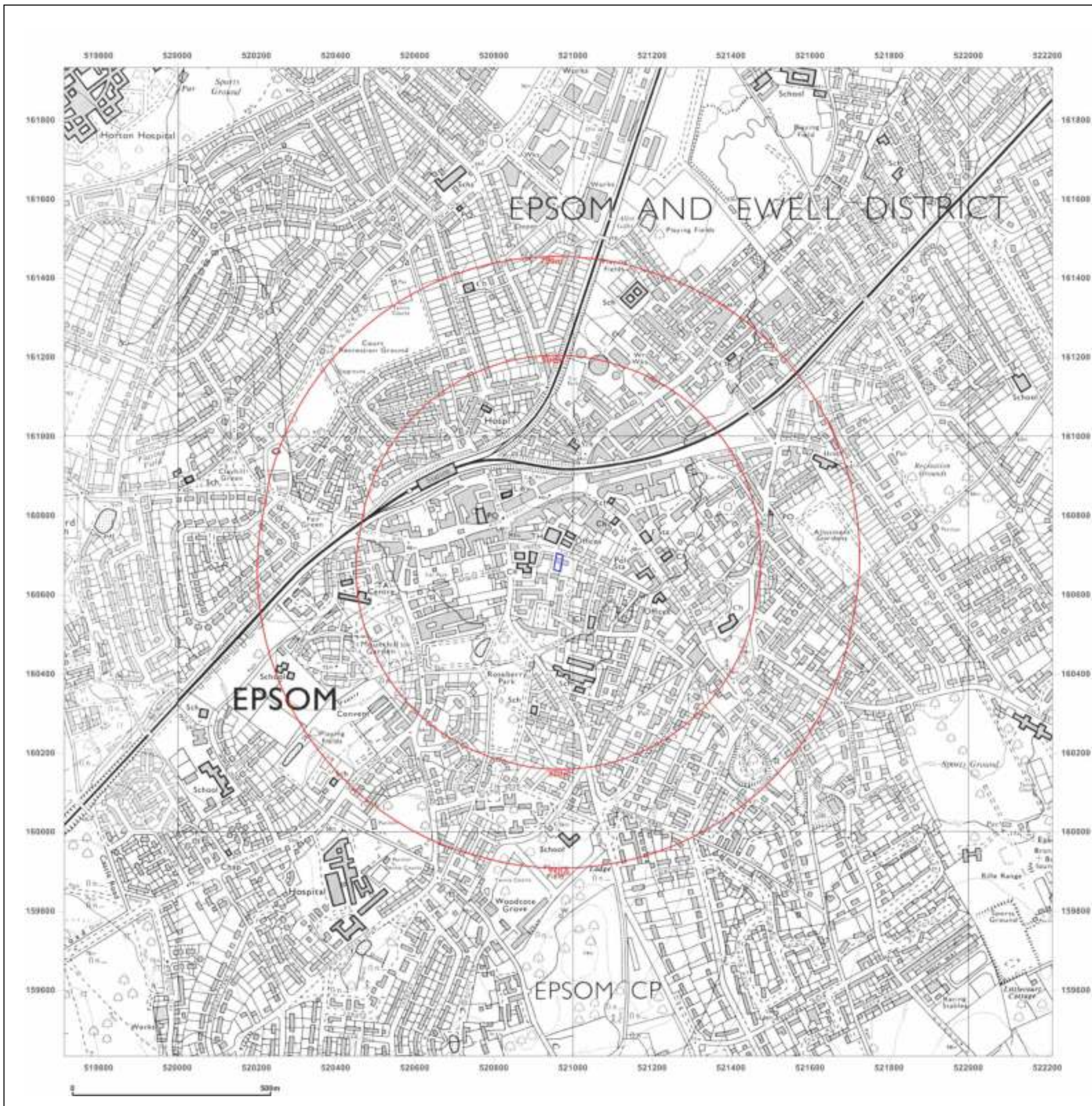


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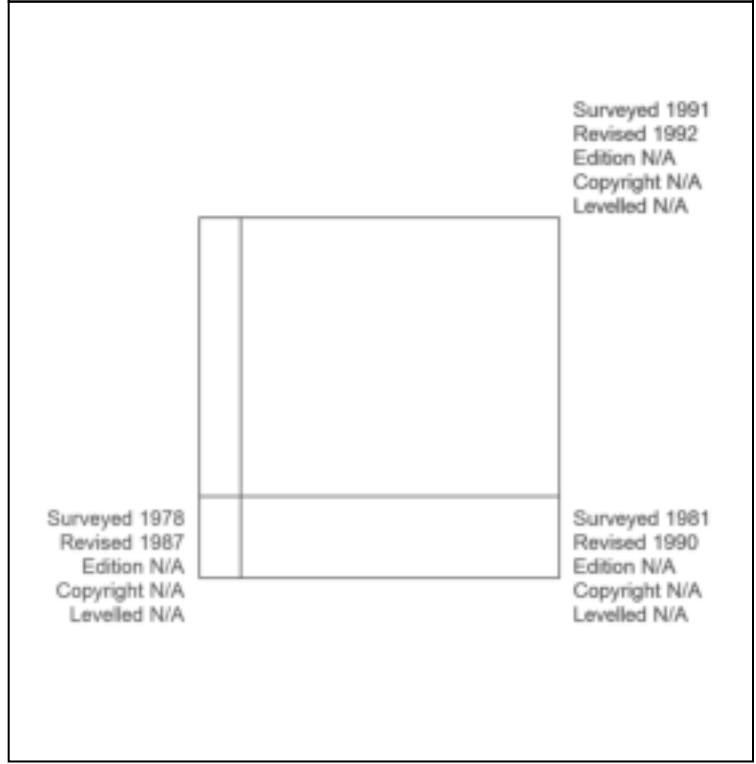
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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 1987-1992

**Scale:** 1:10,000

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

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Surveyed 1978  
Revised 1987  
Edition N/A  
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Surveyed 1981  
Revised 1990  
Edition N/A  
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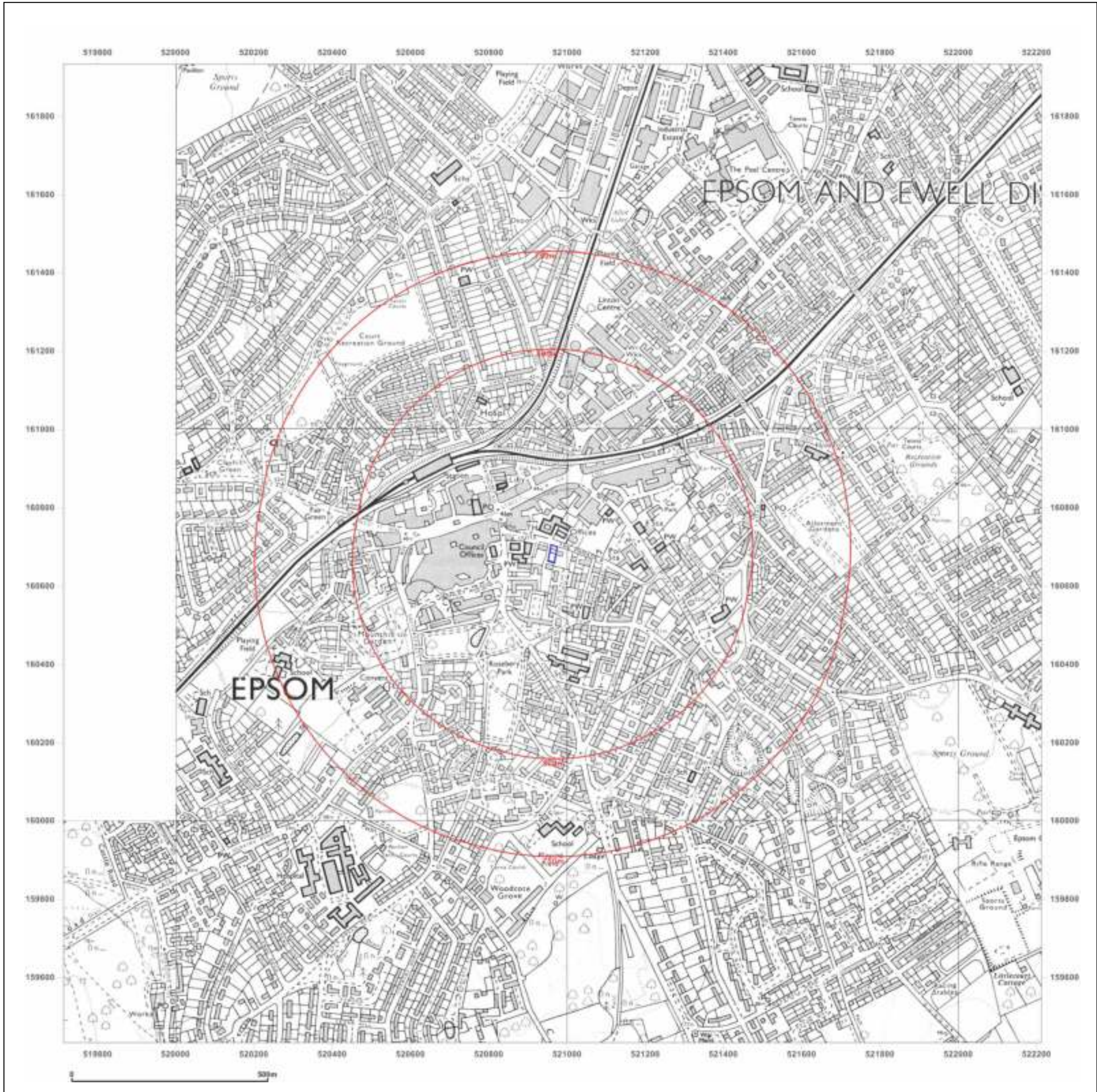


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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

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

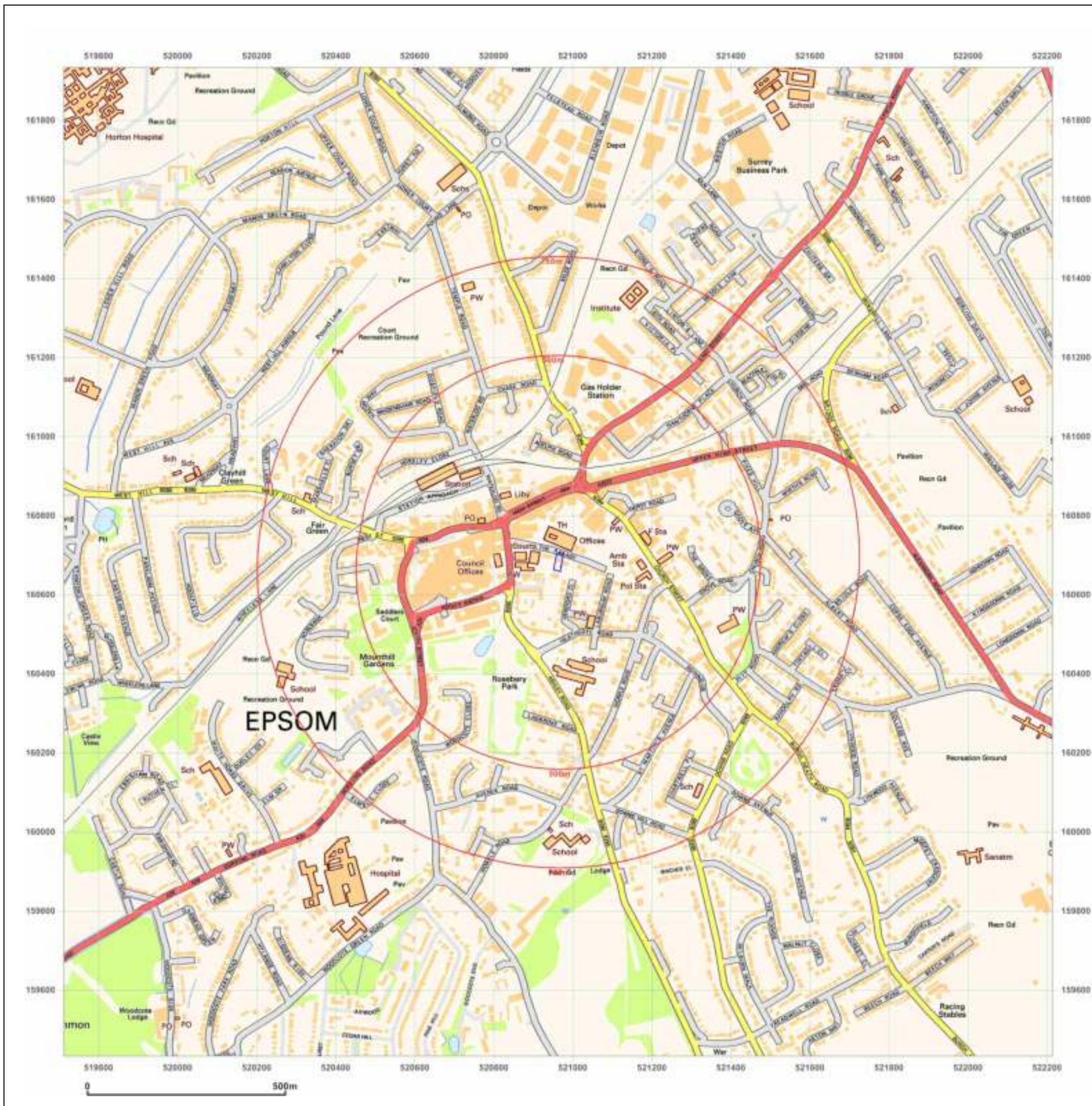


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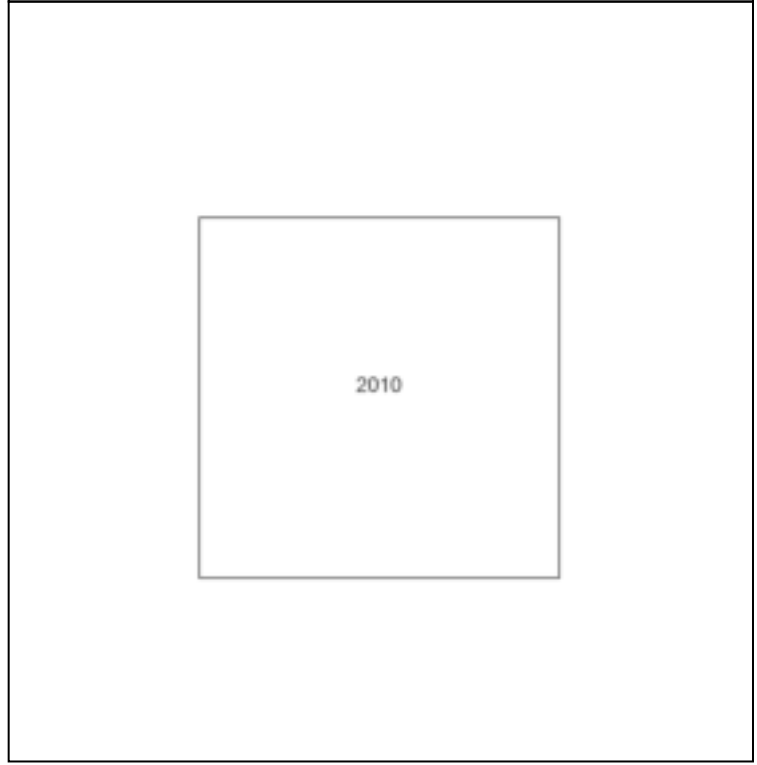
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**Report Ref:** GS-6844109  
**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

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

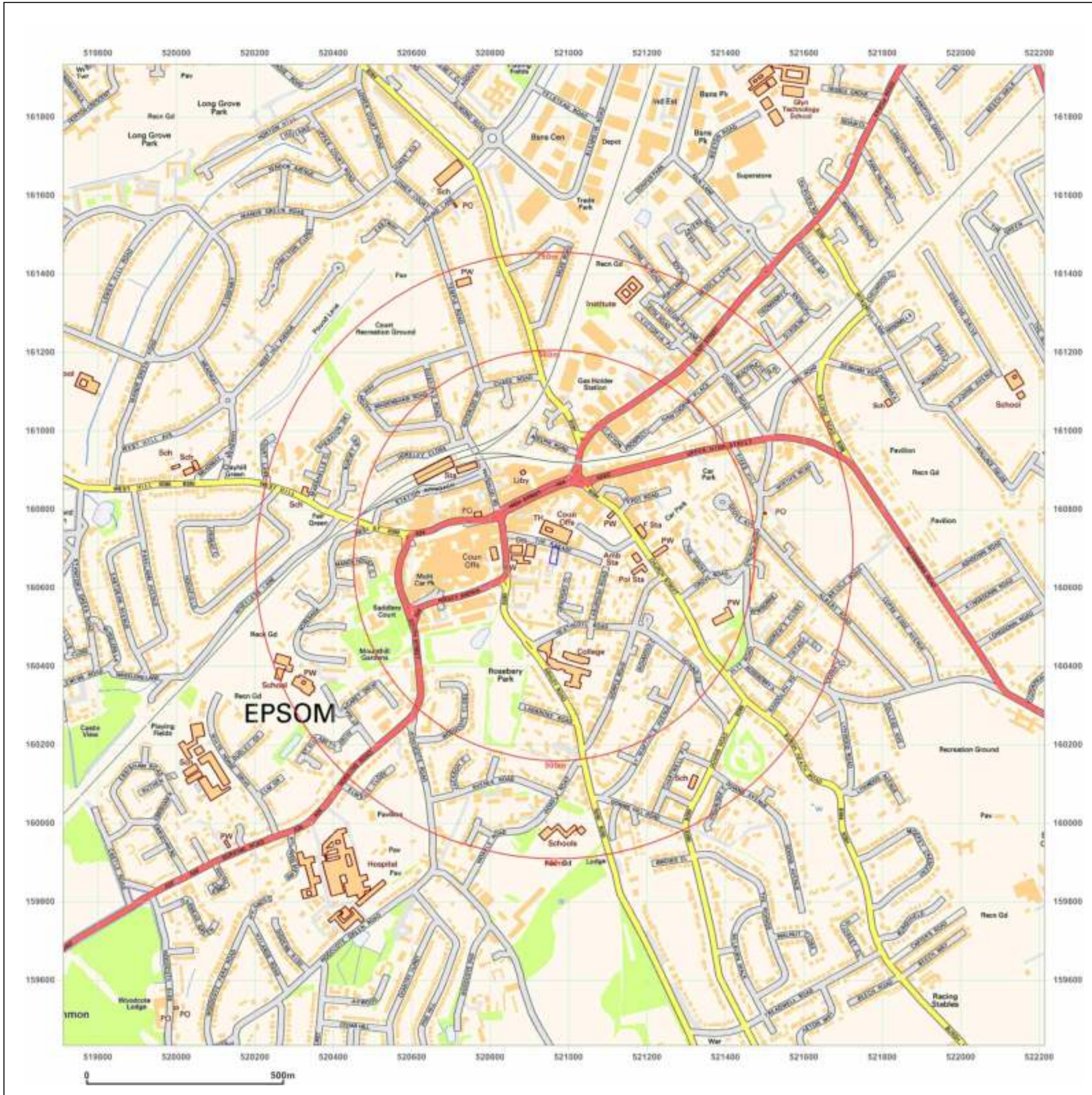


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**Grid Ref:** 520962, 160683

**Map Name:** National Grid

**Map date:** 2020

**Scale:** 1:10,000

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