

PHASE 1 SITE INVESTIGATION & PRELIMINARY RISK ASSESSMENT

Lidl Great Britain Ltd
Childwall Road, Wavertree

Client: Lidl Great Britain Ltd

Remada

www.remada.co.uk

714.01.01
December 2019



Executive Summary

Remada Ltd was commissioned by Lidl Great Britain Ltd ('the client') to undertake a Phase 1 Preliminary Risk Assessment for a proposed store on the site of an existing Coop retail store at Childwall Road, Wavertree, Liverpool L15 6TE. The objectives of this assessment were to present a preliminary conceptual site model to identify plausible pollutant linkages as a preliminary risk assessment and to provide recommendations for subsequent investigation work.

Site Setting

The site is topographically flat and currently occupies an irregular plot to the south of B5178 Childwall Road and east of Church Road North. The majority of the site is occupied by a four-storey building of brick construction, of which the ground floor appears to be in use as a Coop retail store. The remainder of the site area forms the store car park.

The site boundary to the north and west is marked by low (<1.0 metre) brick walls and raised soft landscaping beds. The eastern and southern boundaries appear to be formed by brick walls separating the site from adjacent residential properties.

Site History

The earliest available mapping of 1851 records the site to be undeveloped. Between 1909 and 1927, the site was developed as a Sports Ground with a pavilion building constructed in the north-eastern area of the site. By 1953, the Abbey Cinema complex had been constructed on-site and the building was subsequently during the 1980s to accommodate the current Coop retail store. A snooker club is believed to occupy one floor of the current building.

Geology / Hydrogeology

Published geological maps record that the site is directly underlain by Chester Formation, a Principal Aquifer.

Recommendations

Environmental

The desk study has identified a number of on-site and off-site potential sources of contamination that would require further investigation. The following is recommended:

- Investigation of the lateral and vertical extent of made ground/fill beneath the site;
- Collection of soil and groundwater samples from the areas identified above for contaminants of concern; and
- Ground gas monitoring.

Geotechnical

It is recommended that a ground investigation is undertaken to enable preliminary foundation design.

Zetica have concluded that a detailed desk study should be commission to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the study site.



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Issue No /	Date	Prepared By	Technical Review	Authorised
01	15.12.2019	P Dickinson <i>P.Dickinson</i>	G Jones <i>G Jones</i>	G Jones <i>G Jones</i>



1. INTRODUCTION

Remada Ltd was commissioned by Lidl Great Britain Ltd ('the client') to undertake a Phase 1 Preliminary Risk Assessment for a proposed store on the site of an existing Coop retail store at Childwall Road, Wavertree, Liverpool L15 6TE at the location indicated in **Figure 1**.

1.1. Objectives

The objectives of this assessment are as follows:

- to develop a preliminary conceptual model of the site to identify plausible pollutant linkages; and
- to provide recommendations for subsequent investigation work.

1.2. Scope of Work

The scope of work comprised a:

- review of local geological, hydrogeological, ground stability, and environmental data and historical mapping pertaining to the site and surrounding area; and
- identification of potential sources, pathways, and receptors, and development of a preliminary conceptual site model.

The scope of work did not include a site reconnaissance visit.

1.3. Previous Reports

It is not known if historic reports are available for review.

1.4. Limitations

The comments given in this report and the opinions expressed are based on the information reviewed and observations during site work. However, there may be conditions pertaining to the site that have not been disclosed by this assessment and therefore could not be taken into account.



2. DESK STUDY

2.1. Description of Site

Site Description The site is topographically flat and currently occupies an irregular plot to the south of B5178 Childwall Road and east of Church Road North as indicated on **Figure 2**. The majority of the site is occupied by a four-storey building of brick construction, of which the ground floor appears to be in use as a Coop retail store. The remainder of the site area forms the store car park.

The site boundary to the north and west is marked by low (<1.0 metre) brick walls and raised soft landscaping beds. The eastern and southern boundaries appear to be formed by brick walls separating the site from adjacent residential properties.

Area of Site 5000 m².

Site Elevation The topographic elevation of the site is approximately 57m aOD (metres above ordnance datum).

National Grid Co-ordinates 339270, (E), 389370 (N)

2.2. Site Setting

The site is situated in a mixed commercial and residential area.

North: A roundabout and B5178 Childwall Road are located immediately to the north of the site, with residential dwellings and Picton Playground beyond.

East: Residential housing on Lance Lane with rear gardens that extend to the brick wall that forms the site boundary.

South: Residential housing on Church Road North and Wavertree Green with rear gardens that extend to the brick wall that forms the southern site boundary.

West: Small retail premises are located to the west of Church Road North with residential dwellings beyond.

2.3. Site History

Available historic mapping for the study site has been obtained and reviewed, and is presented in **Appendix A**. A summary of the historical land use of the site and surrounding area follows.

Map Date	Description of on-site activities
----------	-----------------------------------

1851	The site is undeveloped and occupied by a large field that extends off-site towards the east and south. No structures are shown to be present.
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1894	Similar to above.
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1908	Similar to above.
------	-------------------

1909	Similar to above.
------	-------------------

1927	The site has been developed as a Sports Ground, with a pavilion having been constructed in the north-eastern area of the site.
------	--

1928	Similar to above.
------	-------------------



1953	The Abbey Cinema has been constructed in the central area of the site, with a car park located in the southern area.
1954	Similar to above.
1965	Similar to above
1967	Similar to above.
1978	Similar to above.
1987	Similar to above.
1989	The historic cinema building was extended towards to southern boundary of the site; the building occupying the current Coop retail store footprint. There is no significant further change indicated on later mapping.

Map Date	Description of off-site activities
1893	Church Road is present adjacent to the western boundary of the site, whilst Childwall Road forms the northern boundary. The area to the south-west, west and north-west of the site is predominantly residential, whilst to the south, north and east it is predominantly undeveloped. A tramway has been constructed and terminates in Church Road adjacent to the study site, whilst a Brewery is recorded 100m to the south-west. The present-day Picton Clock Tower is labelled approximately 50m to the north-west.
1908	The tramway has been extended southwards along Church Road and the brewery is no longer shown (likely demolished). The open land to the south and east of the study site is labelled as Wavertree Green.
1927	A spur road has been constructed between Church Road and Childwall Road, forming the site's current curved north-western boundary. The nearest section of Wavertree Green to the south and east has been converted in a sports ground, complete with tennis grounds circa 80m to the south.
1954	The sports ground which extended off-site to the south and east has been redeveloped and occupied by residential housing surrounding the Wavertree Green cul-de-sac. An electrical sub-station has been installed adjacent to Picton Clock to the north-west. The route of the tramway has been modified and now runs northwards along Church Road (North), the spur road noted in 1927 and then along Lake Road and Mill Lane to the north.
1965	The tramway to the west and north-west of the site has been removed; the tramway system in Liverpool having been closed by the City Council in September 1957. A commercial garage has been constructed from 50m north-west and a transport depot labelled from 80m west.
1967	Similar to above.
1984	Similar to above.
1993	The transport depot to the west is no longer labelled. There are no significant further changes recorded on the later mapping.



Remada's research into the former Abbey Cinema building on-site has uncovered the following anecdotal evidence from the Cinema Treasures website (source: <http://cinematreasures.org/theaters/44856>) and is summarised below:

- The Abbey Cinema opened in March 1939, with seating being provided for 1126 in the stalls and 744 in the circle.
- The Cinema closed for two months at the start of 1964 for conversion into a Cinerama theatre. The work included the installation of a giant curved screen and the reduction in seating capacity to 1260.
- The cinema continued until its final performance in August 1979, after which the contents of the cinema was sold by public auction.
- After closure, the stall area was subsequently converted into a supermarket, whilst the circle remained unused. In 1984, the circle area was converted into a Bingo Club.
- By 2007, the bingo club had closed and had been converted into a snooker club.

2.4. Proposed Site Use

It is understood that the proposed site use will be a Lidl retail store with associated car park and soft landscaping.

2.5. Environmental Setting

2.5.1. Made Ground and Superficial Geology

Information from the environmental report and the British Geological Survey (BGS) 1:50,000 scale map Sheet 97 (Runcorn) indicates that no made ground deposits have been recorded in this area. It is not expected to be encountered according to the mapping; however, taking consideration of the site's historic use and satellite imagery it is likely that made ground will be encountered underlying the site.

No superficial deposits are indicated to be present underlying the site (ref Envirocheck **Appendix B**).

2.5.2. Bedrock Geology

The bedrock directly underlying the site is formed of Chester Formation sandstone of the Sherwood Sandstone Group and designated as a Principal Aquifer (ref Envirocheck **Appendix B**). The BGS describe the Chester Formation as typically comprising 'conglomerates and reddish brown, cross-bedded pebbly sandstones with subordinate beds of red-brown mudstone. The conglomerates have a reddish-brown sandy matrix and consist mainly of pebbles of brown or purple quartzite'.

2.5.3. Historic BGS Borehole Records

There are no pertinent historic BGS borehole records within a relevant distance of the site.

2.5.4. Groundwater Abstractions

There are no groundwater abstraction points within 1km of the search area. The nearest groundwater abstraction licence is located 1163m to the south-east and pertains to a United Utilities Water Plc borehole for potable water supply (ref Envirocheck **Appendix B**).

2.5.5. Source Protection Zones

The site is not located within a Groundwater Source Protection Zone (ref Envirocheck **Appendix B**).

2.5.6. Surface Water Features and Abstractions

There are no surface waters within 750m of the site (ref Envirocheck **Appendix B**).



2.5.7. Flooding Vulnerability

The site is located in an area with limited potential for groundwater flooding to occur at the surface and there are no recorded surface water flood zones within the search area (ref Envirocheck **Appendix B**).

2.5.8. Ground Stability

The Envirocheck Report (**Appendix B**) provides the following information regarding ground stability and mining.

Shrinking / Swelling of Clay The site is within an area of no hazard from shrinking or swelling of clays.

Rock Solubility	There is a no hazard rating from rock solubility at the site.
Compressible Ground	There is a no hazard rating from compressible ground.
Collapsible Deposits	There is a very low hazard rating from collapsible rocks.
Running Sand	There is a very low hazard rating for running sands.

2.5.9. Radon

The site is located in Lower Probability Radon Area as less than 1% of properties are above the Action Level but no radon protective measures are necessary (ref Envirocheck **Appendix B**).

2.5.10. Environmentally Sensitive Site Designations

The nearest environmentally sensitive zone is an Environment Agency designated Nitrate Vulnerable Zone located from 40m to the east (ref Envirocheck **Appendix B**).

2.6. Industrial Lane Use

There are fifteen (15 No) contemporary trade directory entries locations within entry within 250m of the site. Entries include garage services, computer manufacturers, petrol filling station and dairies (ref Envirocheck **Appendix B**).

2.7. Environmental Permits, Incidents & Registers

There are three (3 No.) permitted processes within 250m of the site, with the nearest being located 54m west. All three processes pertain to petrol filling stations, where the authorization has either been revoked or varied.

There are no recorded pollution incidents to control waters within 1km of the site (ref Envirocheck **Appendix B**).

2.8. Landfill & Waste Sites

There is one licensed waste management facility located within the search area; located 784m to the west for 'end of life vehicles' and for which the licence was revoked in 2007 (ref Envirocheck **Appendix B**).

2.9. Mining

The site is not located within an area which may be affected by coal mining activity and does not lie within the Cheshire Brine Compensation District (ref Envirocheck **Appendix B**).

2.10. Unexploded Ordnance (UXO) Risk

A non-specialist UXO screening exercise has been carried out for the site by considering (a) any evidence of UK defence activities on or near the site evident from the gathered desk study information and (b) the unexploded aerial delivered ordnance (UXO) regional risk maps produced by Zetica.



There is no indication of former military use from the desk study. However, the Zetica risk map indicates the site to be in an area where the UXO risk is high. A copy of the map is presented in **Appendix C**.

A Pre-Preliminary Desk Study Assessment (PDSA) has been commissioned for the site and this is also presented in **Appendix C**, with a summary being provided below:

- No evidence of pre-WWI military activity on (or affecting) the site has been identified;
- No evidence of WWI military activity on (or affecting) the site has been identified;
- No evidence of interwar military activity on (or affecting) the site has been identified;
- No evidence of WWII military activity on (or affecting) the site has been identified;
- During WWII the Site was located in the County Borough (CB) of Liverpool, which officially recorded 2499 No. High Explosive (HE) bombs with a regional bombing density of 91.5 bombs per 405 hectares (ha).
- Between August 1940 and January 1942, the Luftwaffe carried out approximately 80 No. raids on Merseyside. The heaviest bombing occurred during the 'May Blitz' in 1941 when 870 tonnes of HE bombs and over 112,000 No. Incendiary Bombs (IBs) fell across the region.
- Readily available records have been found to indicate that several HE bombs fell in close proximity to the Site.

Zetica have concluded that a detailed desk study should be commission to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the study site.



3. PRELIMINARY RISK ASSESSMENT

3.1. Introduction

A Preliminary Risk Assessment (PRA) has been completed for the site. This PRA identifies the potential sources, pathways, and receptors for the site, in order to assess the potential risks posed by identified potential sources to human health and / or controlled waters receptors. When required, the viability of the Source-Pathway-Receptor pollutant linkage must be evaluated further to determine whether an actual risk is present.

3.2. Potential Sources

On-site Historical

- Sports Ground & Pavilion;
- Cinema complex.

On-site Current

- Operational Coop store and car parking.

Off-site Historical

- Residential housing;
- Tramway;
- Brewery;
- Electrical Sub Station;
- Commercial Garage / Petrol Filling Station;
- Transport Depot.

Off-site Current

- General Made Ground associated with redevelopment

3.3. Potential Contaminants of Concern (PCOCs)

- Metals
- Asbestos (associated with demolition and redevelopment of the existing site).
- Total petroleum hydrocarbons (TPH)
- Polycyclic aromatic hydrocarbons (PAH).
- Ground gases (carbon dioxide and methane)
- Polychlorinated Biphenyls (PCBs – associated with historic substation)

3.4. Potential Receptors

Human Health

- On-site Lidl store staff.
- Construction workers.
- On-site general public and visiting staff (such as contractors, including those conducting excavation works).
- Neighbouring residents

Controlled Waters

- Principal Aquifer in bedrock.



3.5. Preliminary Conceptual Model

The Preliminary Conceptual Site Model of the site has been prepared and illustrates the potentially active pollutant linkages. A pollutant linkage is present only when a source, pathway and receptor exist together.

- A **source** is a substance that has potential to cause harm or adversely affect human health, water resources or the wider environment.
- A **pathway** is the route or means by which a source of contamination can migrate resulting in exposure to a receptor.
- A **receptor** is something that could be adversely affected by a contaminant such as human health, an ecological system, animals or crops, buildings or controlled waters.

The Preliminary Conceptual Site Model is presented in **Table 1**.



Potential Areas	Source	Potential Contaminant of Concern	Pathways	Potential Receptor	Exposure Route (Human unless otherwise stated)	Potential Identified Linkage (unmitigated)	Findings of Ground investigation	Risk (Un-mitigated)	Proposed Remediation (Mitigation) Measures	Residual Risk Estimation
On-site Sources Historic Sports Ground & Pavilion Historic Cinema complex Existing retail store and car parking Off-site Sources Residential housing Tramway Brewery Electrical Sub-Station Garage / Petrol Filling Station Transport Depot		Asbestos / Metals As, Be, Cd, Cu, Cr (VI), Cr (III) Hg, Ni, Se, Va, Zn, Boron, TPH /PAH.	Disturbance due to construction plant causing direct contact, dusts, vapours. Direct Contact with occupants of the proposed development	Occupants of the development / building fabric	<ul style="list-style-type: none"> Direct Soil Ingestion 	<ul style="list-style-type: none"> Yes 	To be assessed (TBA)	Potential risk	(To be assessed (TBA))	(To be assessed (TBA))
					<ul style="list-style-type: none"> Indoor Dust ingestion 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Skin Contact with Soils 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Skin Contact with Dust 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
			Inhalation of fibres / vapours / gases by occupants of proposed development	Adjacent residents during construction	<ul style="list-style-type: none"> Inhalation of Outdoor Dust 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Ingestion of home grown produce 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Inhalation of Outdoor Vapours 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Inhalation of Indoor Vapours 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
			Permeation of water supply pipework Leachate	Principal Aquifer	<ul style="list-style-type: none"> Inhalation of ground gas 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Inhalation of radon gas 	<ul style="list-style-type: none"> No 	N/A	Negligible	Negligible	Negligible
					<ul style="list-style-type: none"> Ingestion via permeated water supply pipework 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> Direct contact with Secondary (B) Aquifer in Superficial Deposits 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA
					<ul style="list-style-type: none"> In-direct contact with Principal Aquifer in bedrock 	<ul style="list-style-type: none"> Yes 	As above	Potential risk	TBA	TBA

Table 1: Preliminary Conceptual Site Model

Direct contact with subsurface soil and/or groundwater during redevelopment works are not assessed as part of the CSM. It is considered that risks to workers will be managed as part of any the redevelopment works at the site through the application of health and safety procedures, where required.



4. CONCLUSIONS & RECOMMENDATIONS

4.1. Conclusions

The earliest available mapping of 1851 records the site to be undeveloped. Between 1909 and 1927, the site was developed as a Sports Ground with a pavilion building constructed in the north-eastern area of the site. By 1953, the Abbey Cinema complex had been constructed on-site and the building was subsequently during the 1980s to accommodate the current retail store. A snooker club is believed to occupy one floor of the current building.

Published geological maps record that the site is directly underlain by Chester Formation, a Principal Aquifer.

4.2. Recommendations

Environmental

The desk study has identified a number of on-site and off-site potential sources of contamination that would require further investigation. The following is recommended:

- Investigation of the historic made ground anticipated to be present underlying the site;
- Collection of soil and groundwater samples for contaminants of concern; and
- Ground gas monitoring.

Geotechnical

It is recommended that a ground investigation is undertaken to enable preliminary foundation design in accordance with Lidl Guideline 04.2018.

Zetica have concluded that a detailed desk study should be commission to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the study site.



REFERENCES & GUIDANCE

- BRE, Special Digest 1:2005 (3rd Edition), Concrete in Aggressive Ground. 2005.*
- BS 10175:2011+A1:2013, Investigation of potentially contaminated sites: Code of practice.*
- BS 1377:1999. Methods of test for soils for civil engineering purposes.*
- BS 5930:2015, Code of practice for site investigations.*
- BS 8485:2015, Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.*
- BS 8576:2013, Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs).*
- BS EN ISO 22476-3:2005, Geotechnical investigation and testing: Field testing - Standard penetration test.*
- CIRIA, C504, Engineering in glacial tills, 1999.*
- CIRIA, C665, Assessing risks posed by hazardous ground gases to buildings, 2007.*
- CIRIA, C682, The VOCs Handbook: Investigating, assessing and managing risks from inhalation of VOCs at land affected by contamination, 2009.*
- CIRIA, C716, Remediating and mitigating risks from volatile organic compound (VOC) vapours from land affected by contamination, 2012.*
- CIRIA C733, Asbestos in Soil and Made Ground: A Guide to Understanding & Managing Risks.*
- CL:AIRE/EIC/AGS, The Soil Generic Assessment Criteria for Human Health Risk Assessment, 2009.*
- CL:AIRE, SP1010, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination -Final Project Report. 2013.*
- CL:AIRE, The Definition of Waste: Development Industry Code of Practice Version 2*
- DEFRA, Circular 01/2006, Contaminated Land Environmental Protection Act 1990, Part 2A. 2006.*
- DEFRA, SP1010, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. March 2014.*
- Environment Agency, Model Procedures for the Management of Land Contamination, CLR 11, 2004.*
- Environment Agency, Verification of Remediation of Land Contamination Science Report – NC/00/38/SR*
- Environment Agency, Waste Classification, Guidance on the classification and assessment of waste (1st Edition V1.1) Technical Guidance WM3.*
- Health & Safety Executive, HSG 66, Protection of Workers and the General Public During Redevelopment of Contaminated Land. 1991.*
- Highways Agency, IAN 73/06 Rev 1, Design of Pavement Foundations, 2009.*
- LCM/CIEH, The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, S4UL3146, 2015.*
- NHBC Standards, 2019.*
- Tomlinson, M.J., 2001, Foundation Design and Construction, 7th Edition.*
- The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015*



STUDY LIMITATIONS

IMPORTANT. This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1. This report has been prepared by Remada, Ltd with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with (the 'Client'). Remada does not accept responsibility for any matters outside the agreed scope.

2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.

3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Remada is unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have published, more stringent objectives. Further work may be required by these parties.

4. All work carried out in preparing this report has used, and is based on, Remada's professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice pending changes in legislation, of which Remada is aware, have been considered. Following delivery of the report Remada has no obligation to advise the Client or any other party of such changes or their repercussions.

5. This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.

6. Whilst this report and the opinions made are to the best of Remada's belief, Remada cannot guarantee the accuracy or completeness of any information provided by third parties.

7. This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have received.

8. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the site since the time of the investigation.

9. The content of this report represents the professional opinion of experienced environmental consultants. Remada does not provide specialist legal or other professional advice. The advice of other professionals may be required.

10. Where intrusive investigation techniques have been employed they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.

11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on site.

12. Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issues.

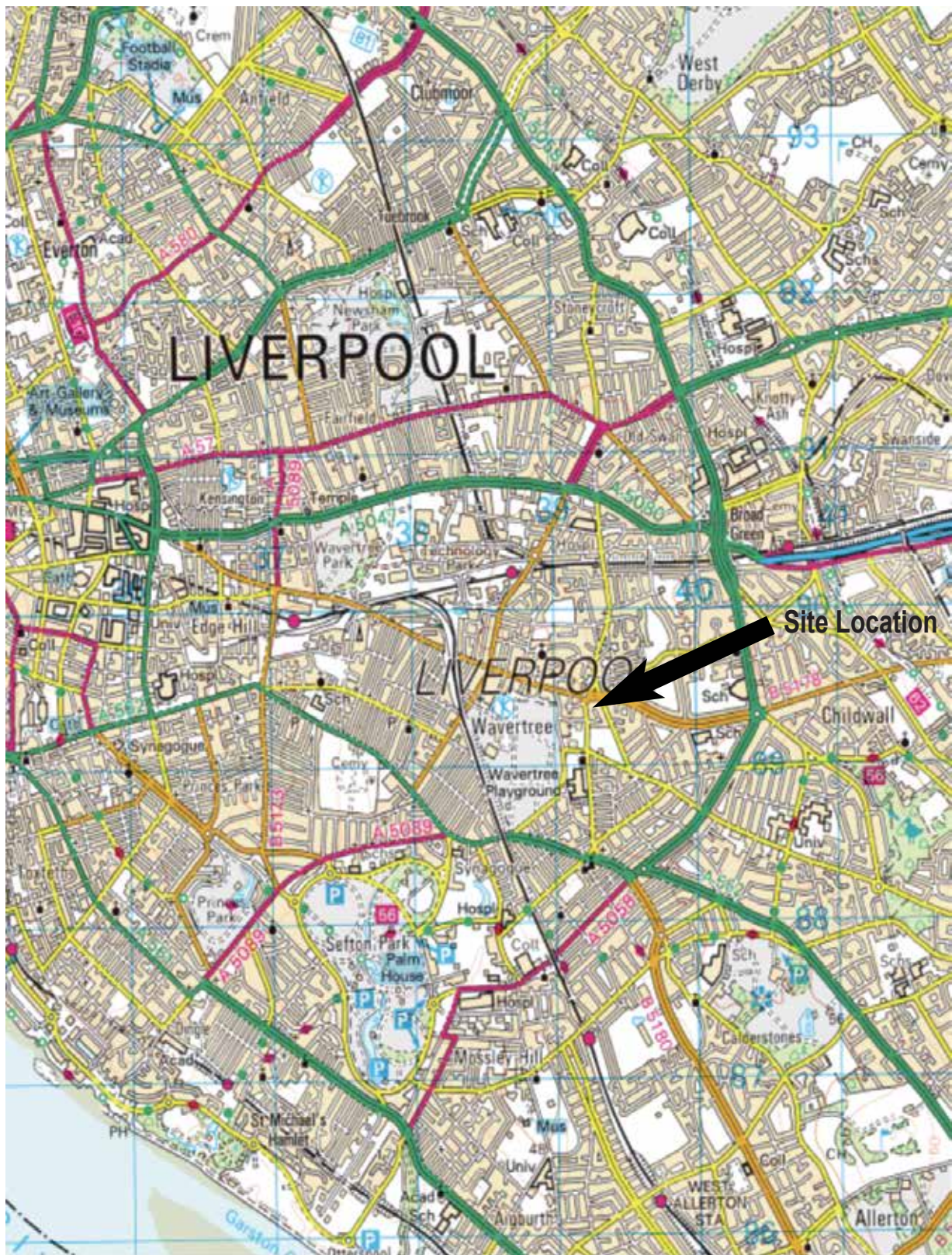
13. Unless otherwise stated, samples from the site (soil, groundwater, building fabric or other samples) have NOT been analysed or assessed for waste classification purposes.



FIGURES

Figure 1 Site Location Plan

Figure 2 Existing Site Layout



Notes



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Project Title

Childwall Road, Wavertree

Scale

as shown

Drawn

PD

Size

A4

Drawing Title

Site Location Plan

Date

15.12.19

Job No.

714.01

Drawing / Rev No.

01

Client

Lidl GB Ltd



Remada



Legend

Notes

Project Title
Childwall Road, Wavertree

Drawing Title
Figure 2: Existing Site Layout Plan

Client
Lidl GB Ltd

Scale
as shown

Drawn
PD

Date
15.12.19

Size
A4

Job No.
714.01

Drawing /Rev No
01

Remada



APPENDIX A

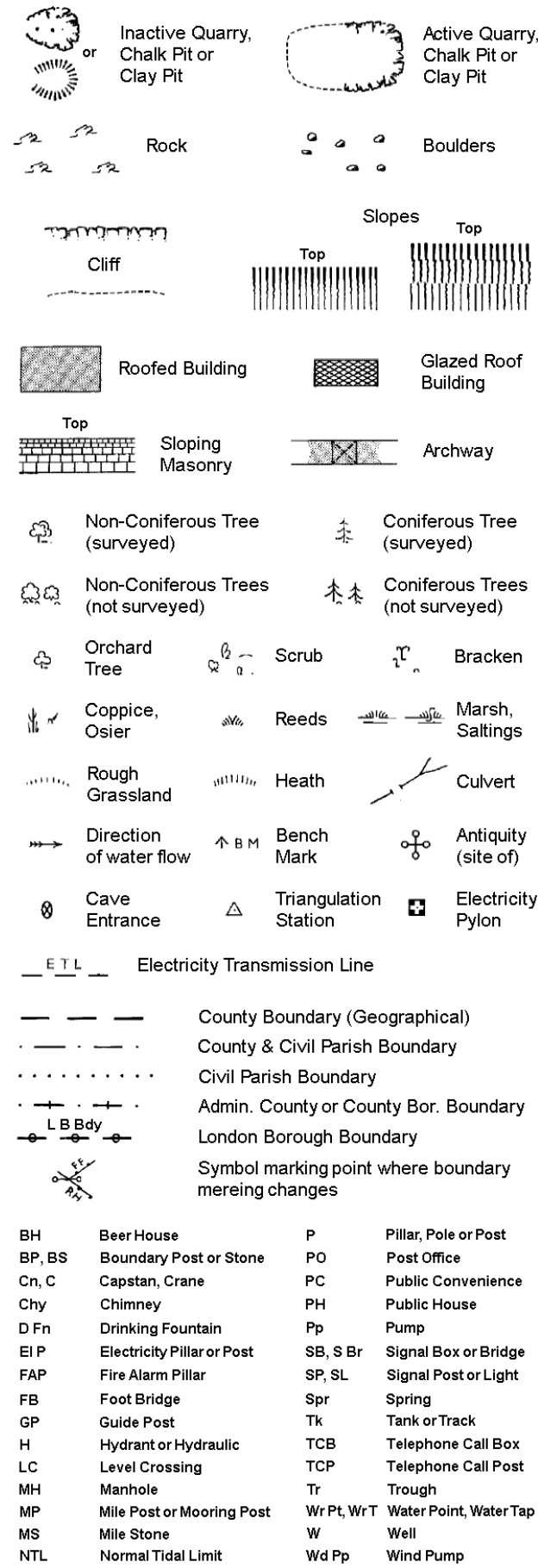
1:2500 & 1:10000 Scale Historical Mapping

Historical Mapping Legends

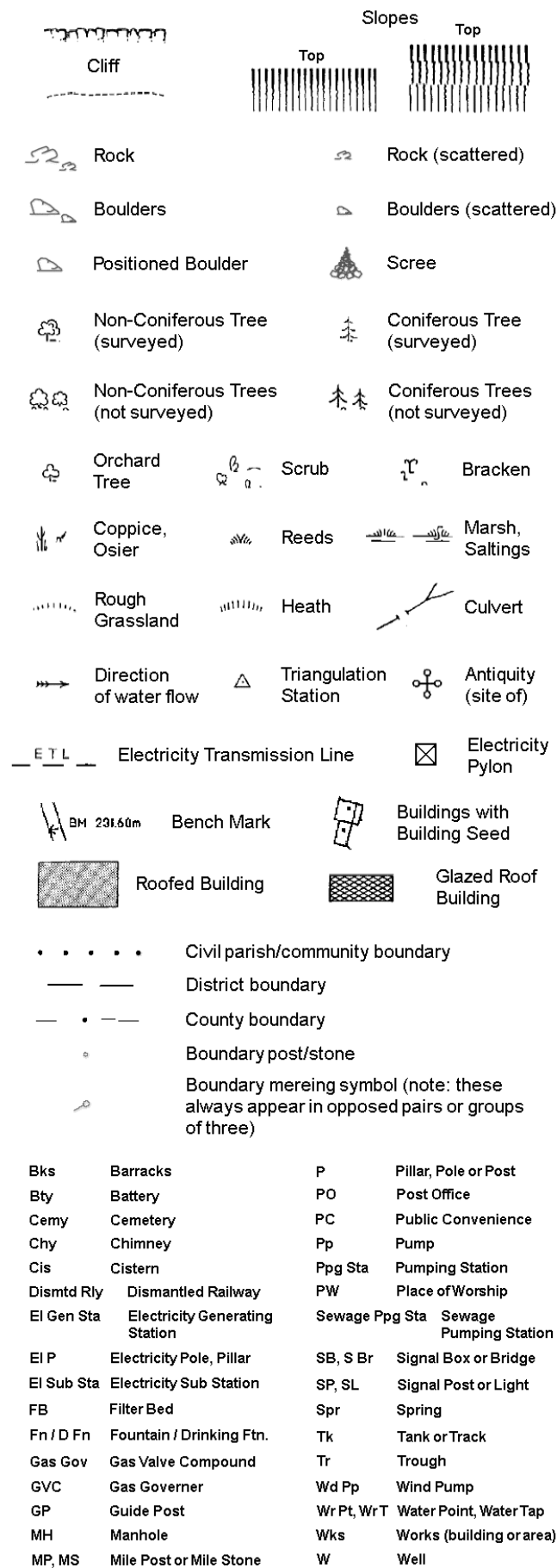
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



Large-Scale National Grid Data 1:2,500 and 1:1,250



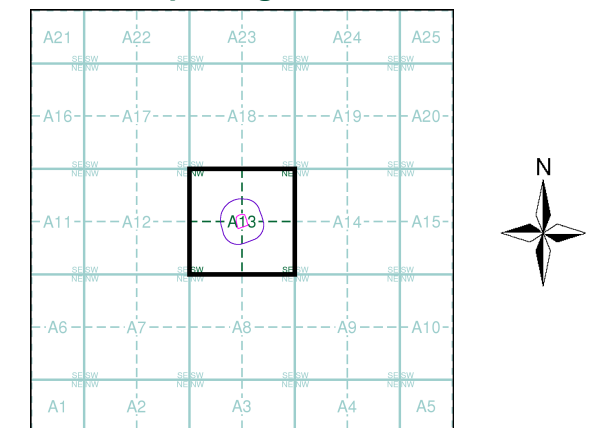
Envirocheck®

LANDMARK INFORMATION GROUP®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1927	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1953	6
Ordnance Survey Plan	1:2,500	1954	7
Ordnance Survey Plan	1:1,250	1964 - 1972	8
Additional SIMs	1:1,250	1964 - 1987	9
Ordnance Survey Plan	1:2,500	1967	10
Ordnance Survey Plan	1:1,250	1977	11
Additional SIMs	1:1,250	1981 - 1992	12
Additional SIMs	1:1,250	1986	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1994	15
Large-Scale National Grid Data	1:1,250	1996	16
Large-Scale National Grid Data	1:1,250	1996	17

Historical Map - Segment A13



Order Details

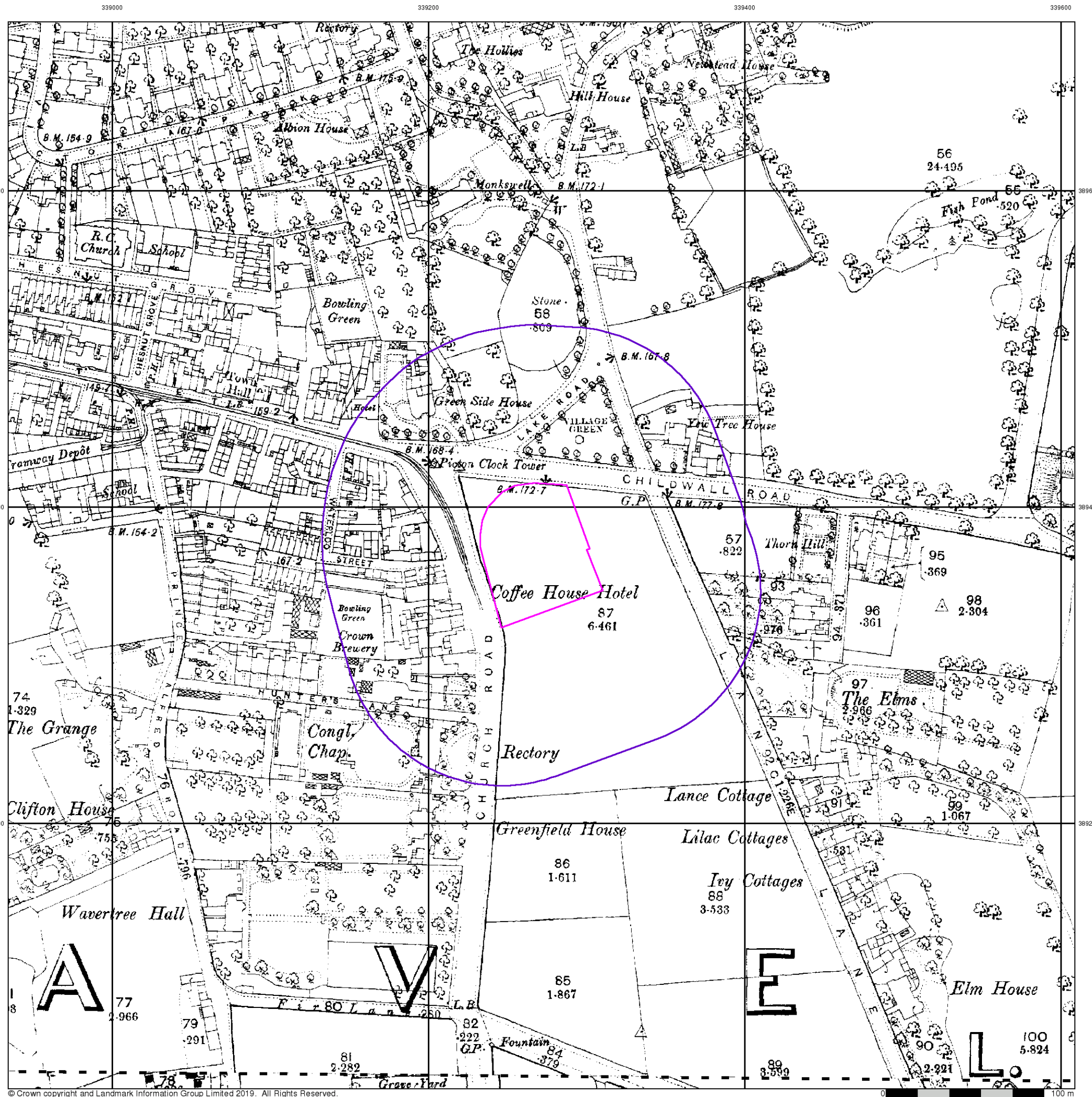
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National Grid Reference: 339270, 389370
Slice: A
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Search Buffer (m): 100

Site Details

Site at 339000, 389000

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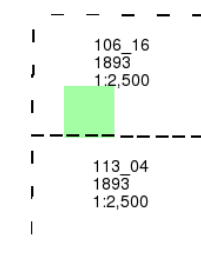
Lancashire And Furness

Published 1893

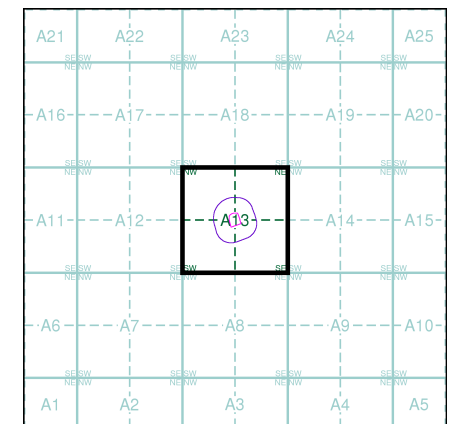
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

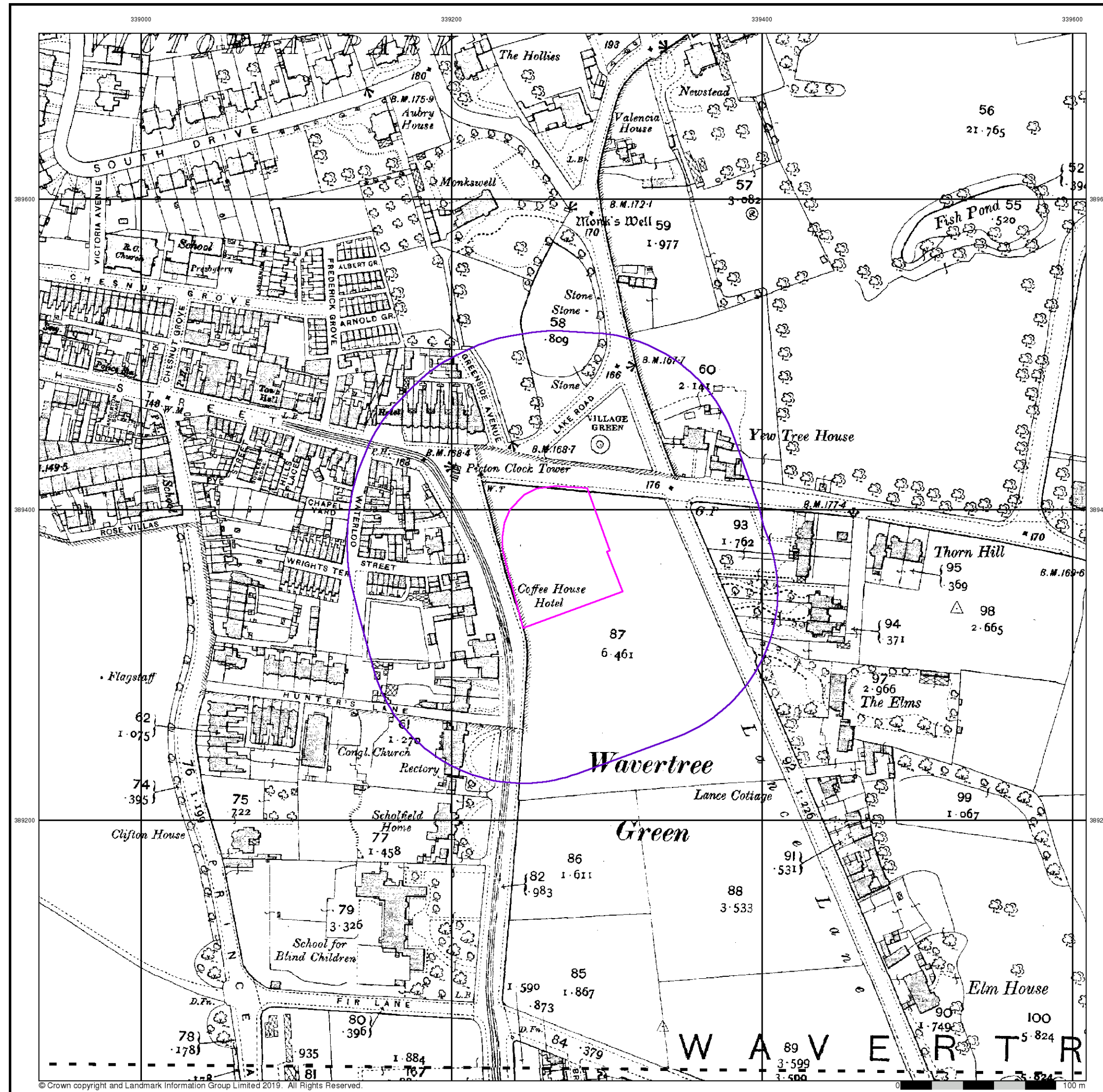
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Slice: A
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Search Buffer (m): 100

Site Details

Site at 339000, 389000

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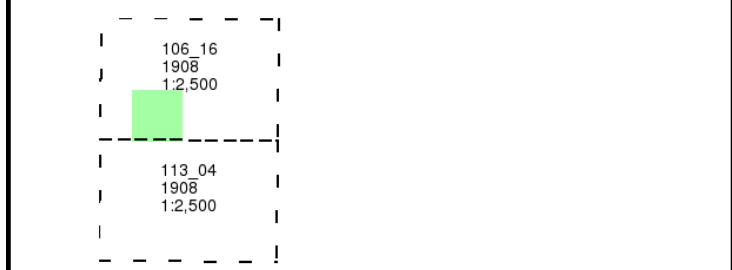
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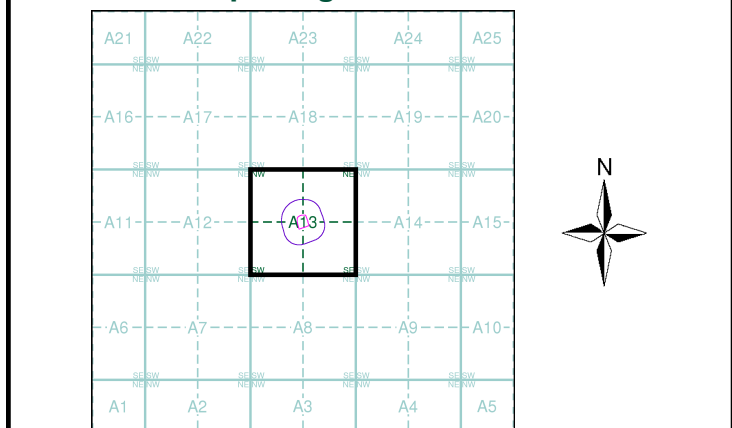
Lancashire And Furness
Published 1908
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



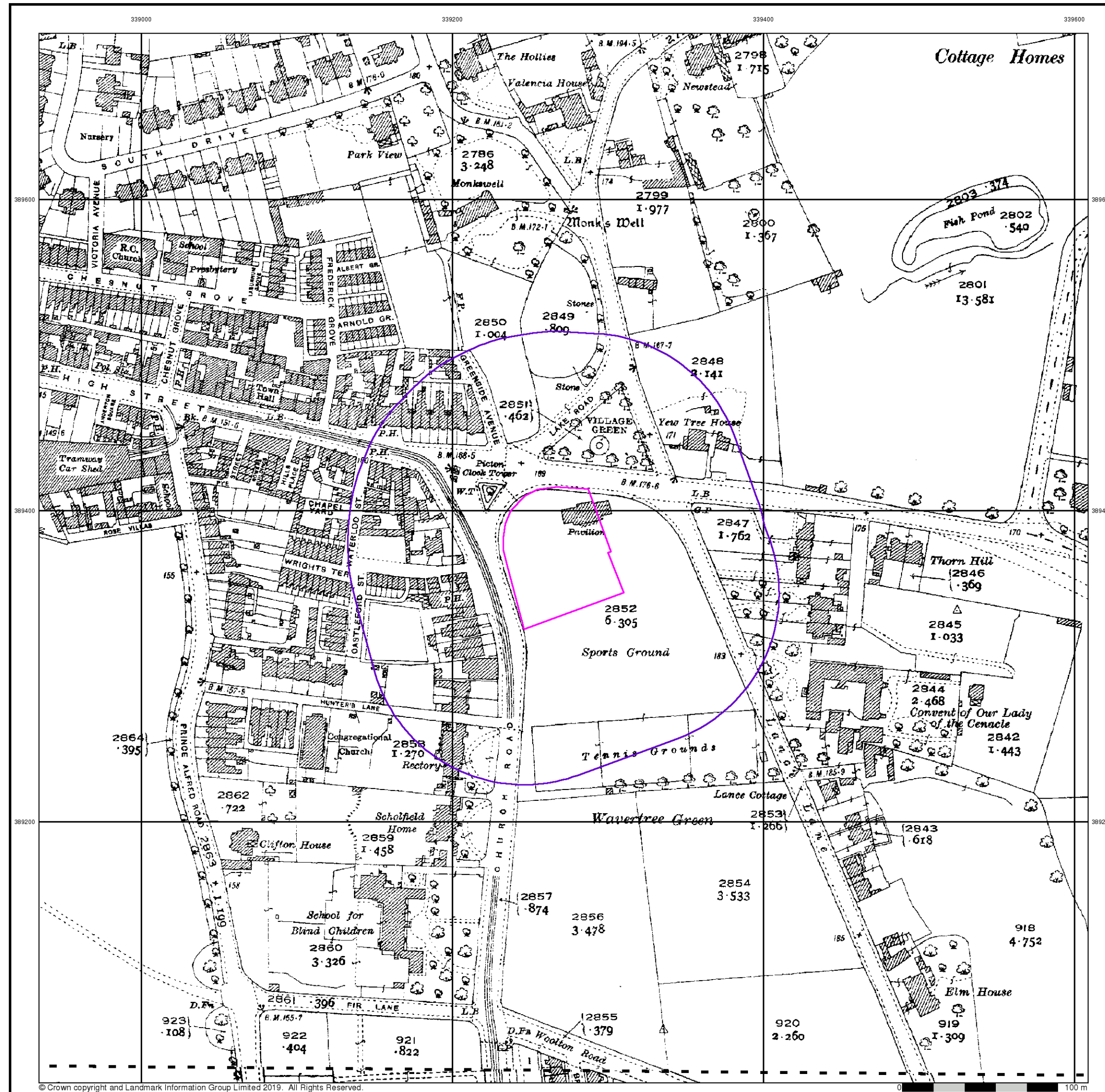
Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
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National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

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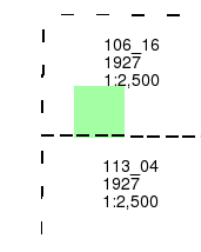
Lancashire And Furness

Published 1927

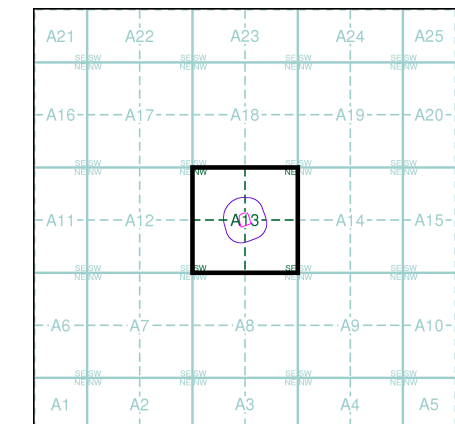
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

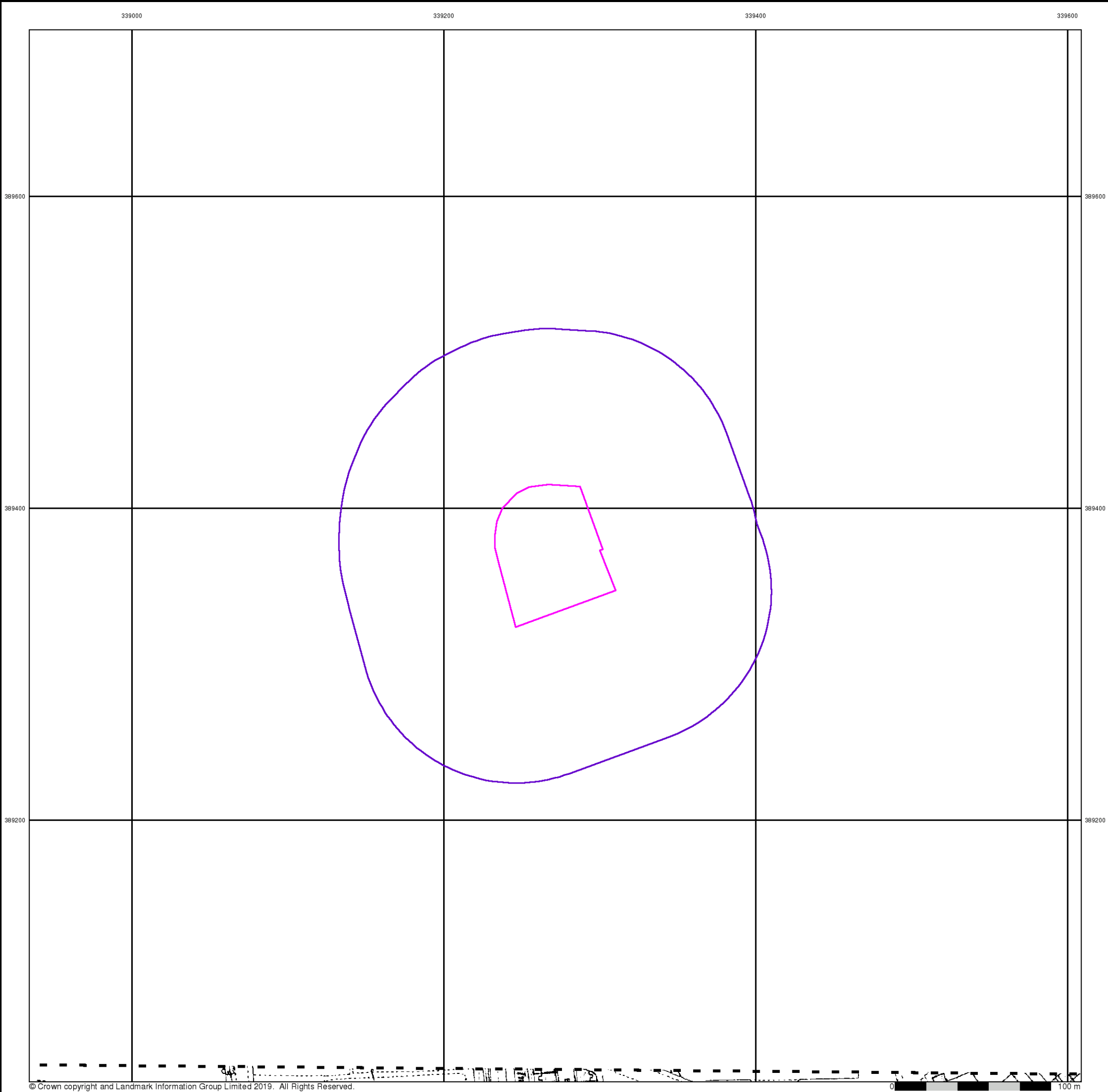
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National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

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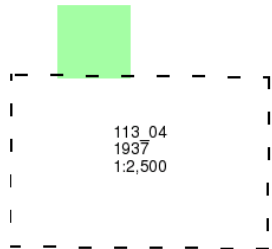
Lancashire And Furness

Published 1937

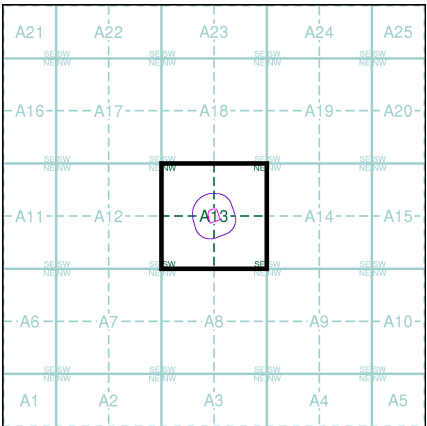
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

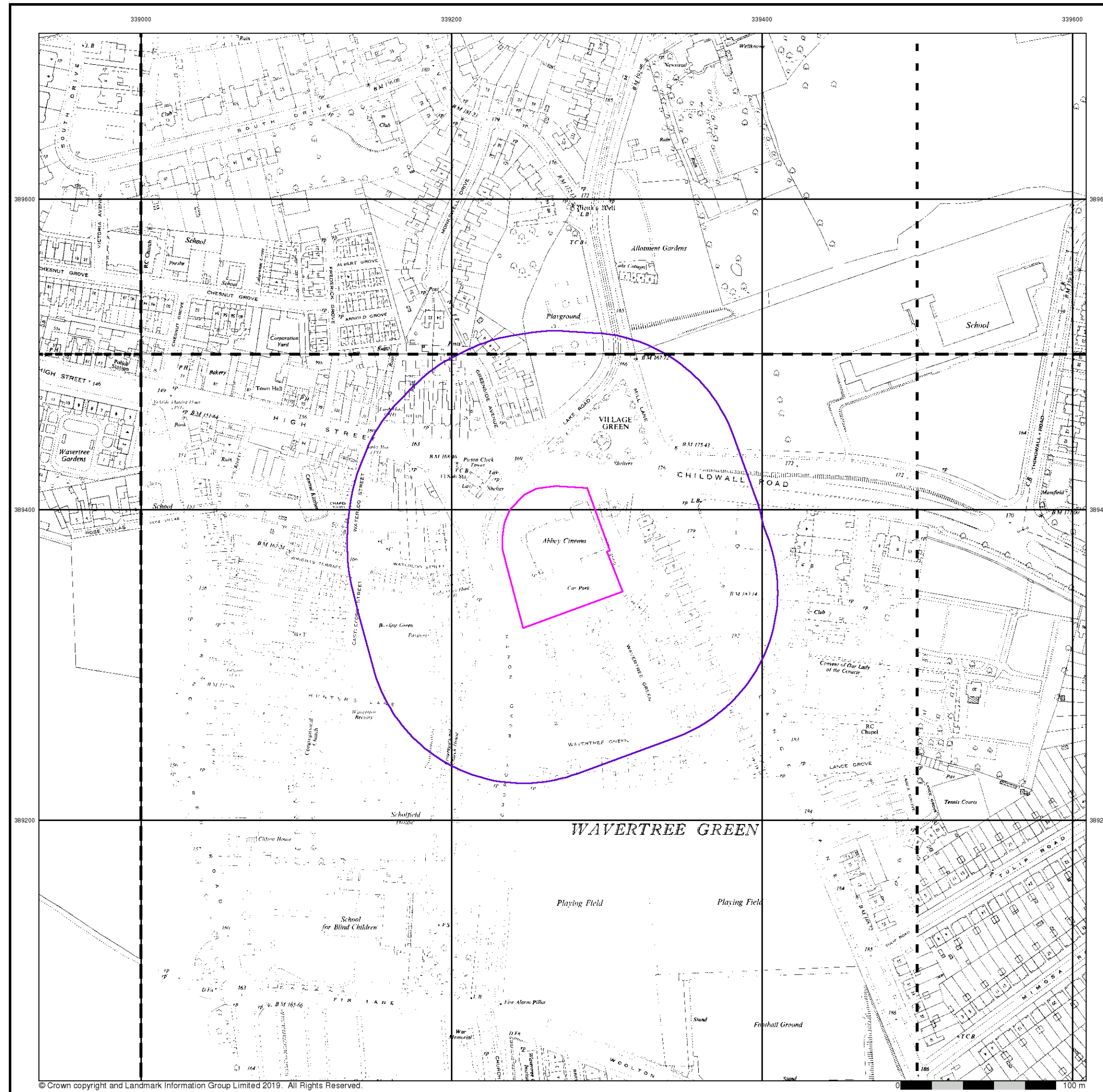


Order Details

Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

Site Details

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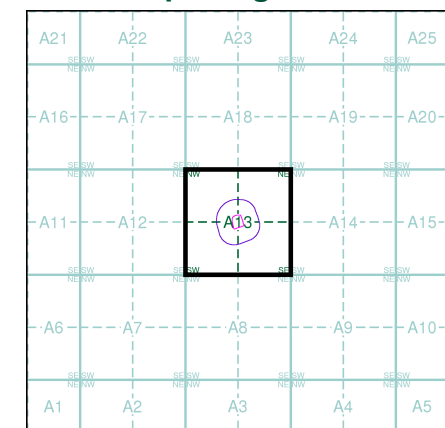
Ordnance Survey Plan
Published 1953
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3889NE 1953 1:1,250	SJ3989NW 1953 1:1,250	SJ3989NE 1953 1:1,250
SJ3889SE 1953 1:1,250	SJ3989SW 1953 1:1,250	SJ3989SE 1953 1:1,250

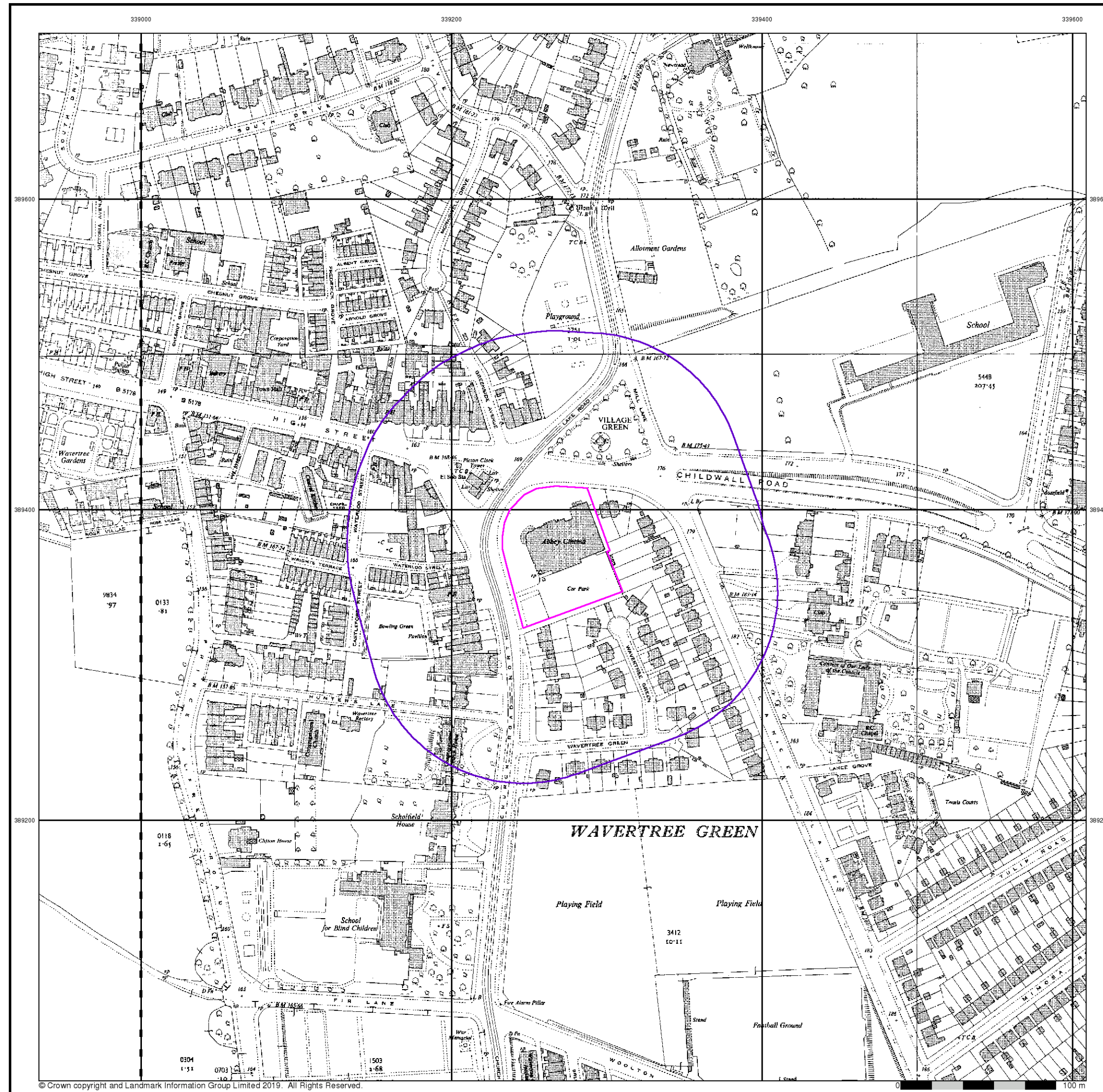
Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

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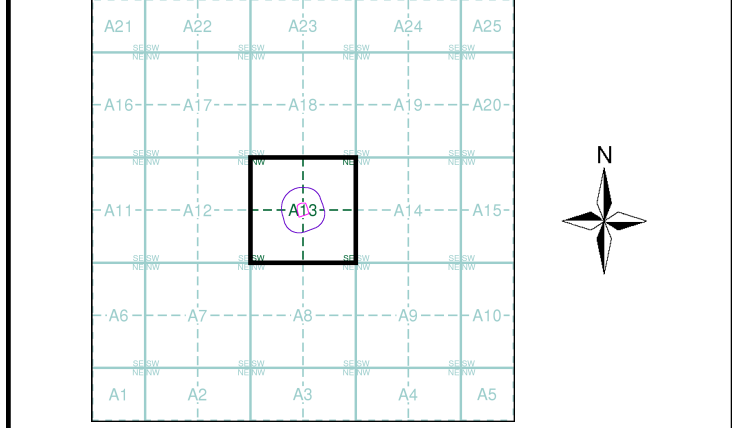
Ordnance Survey Plan
Published 1954
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3889 1954 1:2,500	SJ3989 1954 1:2,500
---------------------------	---------------------------

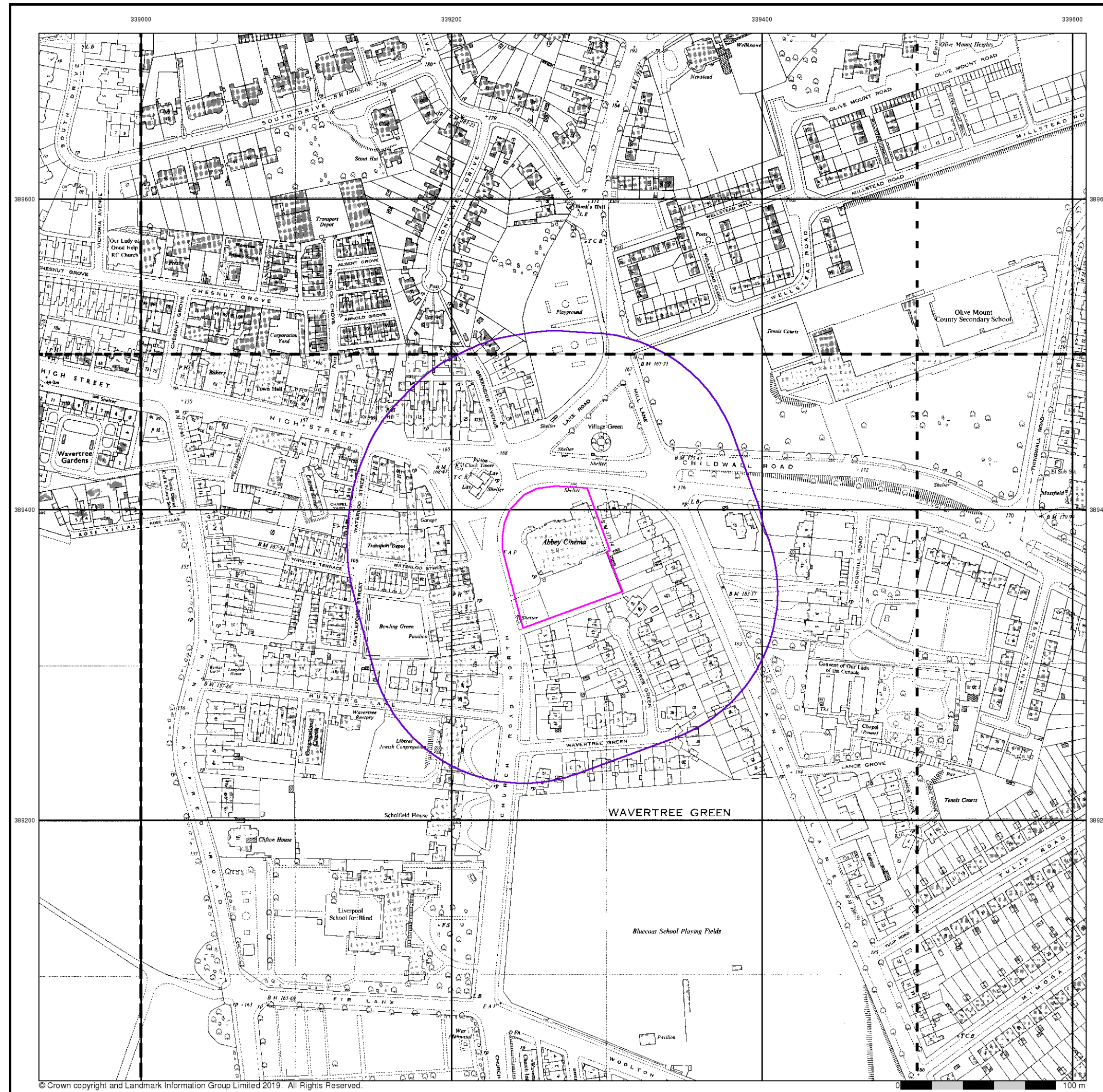
Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

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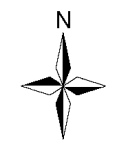
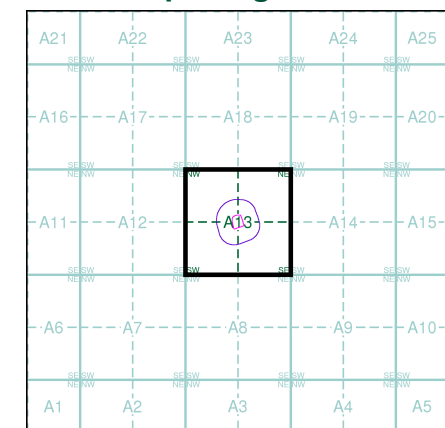
Ordnance Survey Plan
Published 1964 - 1972
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3889NE 1967 1:1,250	SJ3989NW 1965 1:1,250	SJ3989NE 1964 1:1,250
SJ3889SE 1972 1:1,250	SJ3989SW 1965 1:1,250	SJ3989SE 1967 1:1,250

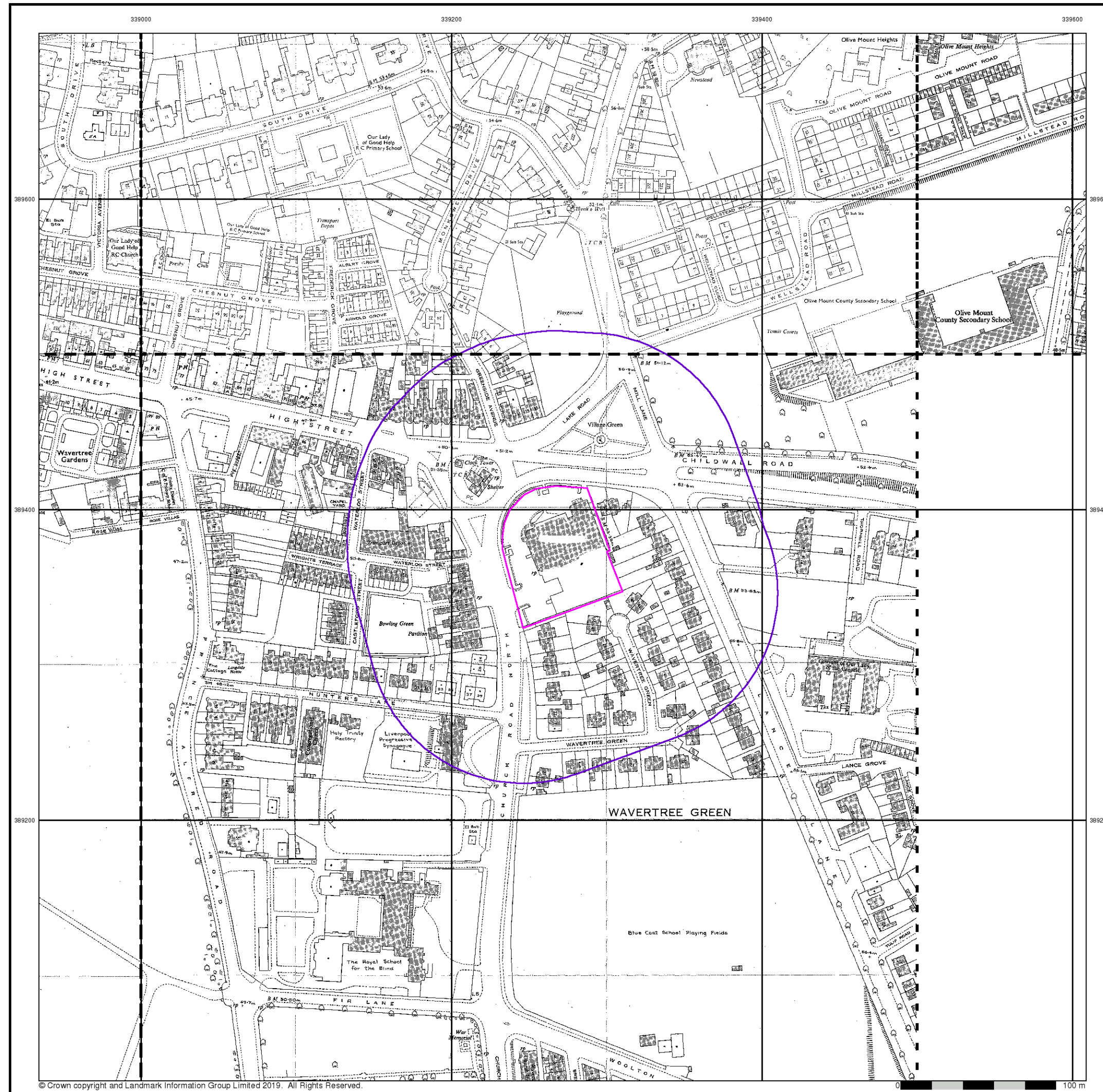
Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

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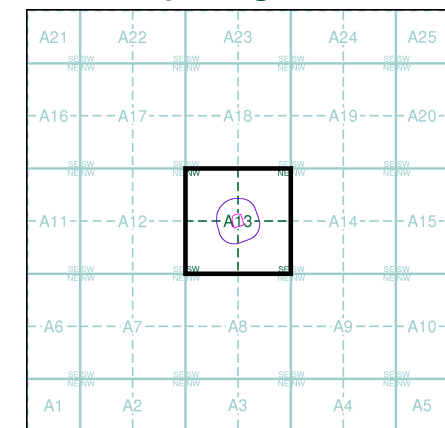
Additional SIMs
Published 1964 - 1987
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3889NE	SJ3989NW	SJ3989NE
1984	1978	1964
1:1,250	1:1,250	1:1,250
SJ3889SE	SJ3989SW	
1987	1984	
1:1,250	1:1,250	

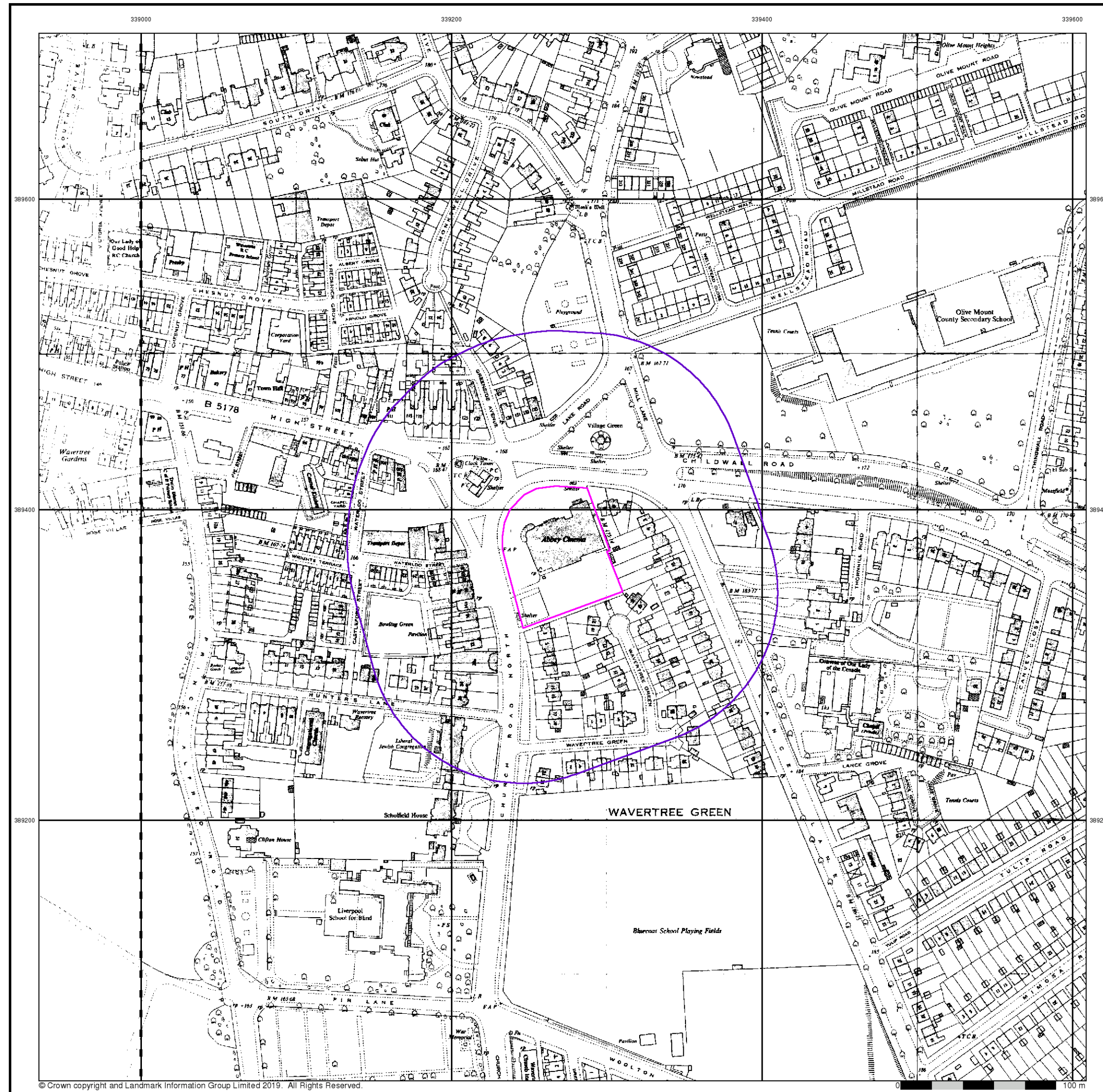
Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

Site Details
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Ordnance Survey Plan

Published 1967

Source map scale - 1:2,500

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Map Name(s) and Date(s)

SJ3889
1967
1:2,500

SJ3989
1967
1:2,500

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

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Customer Ref:714.01

National Grid Reference:339270, 389370

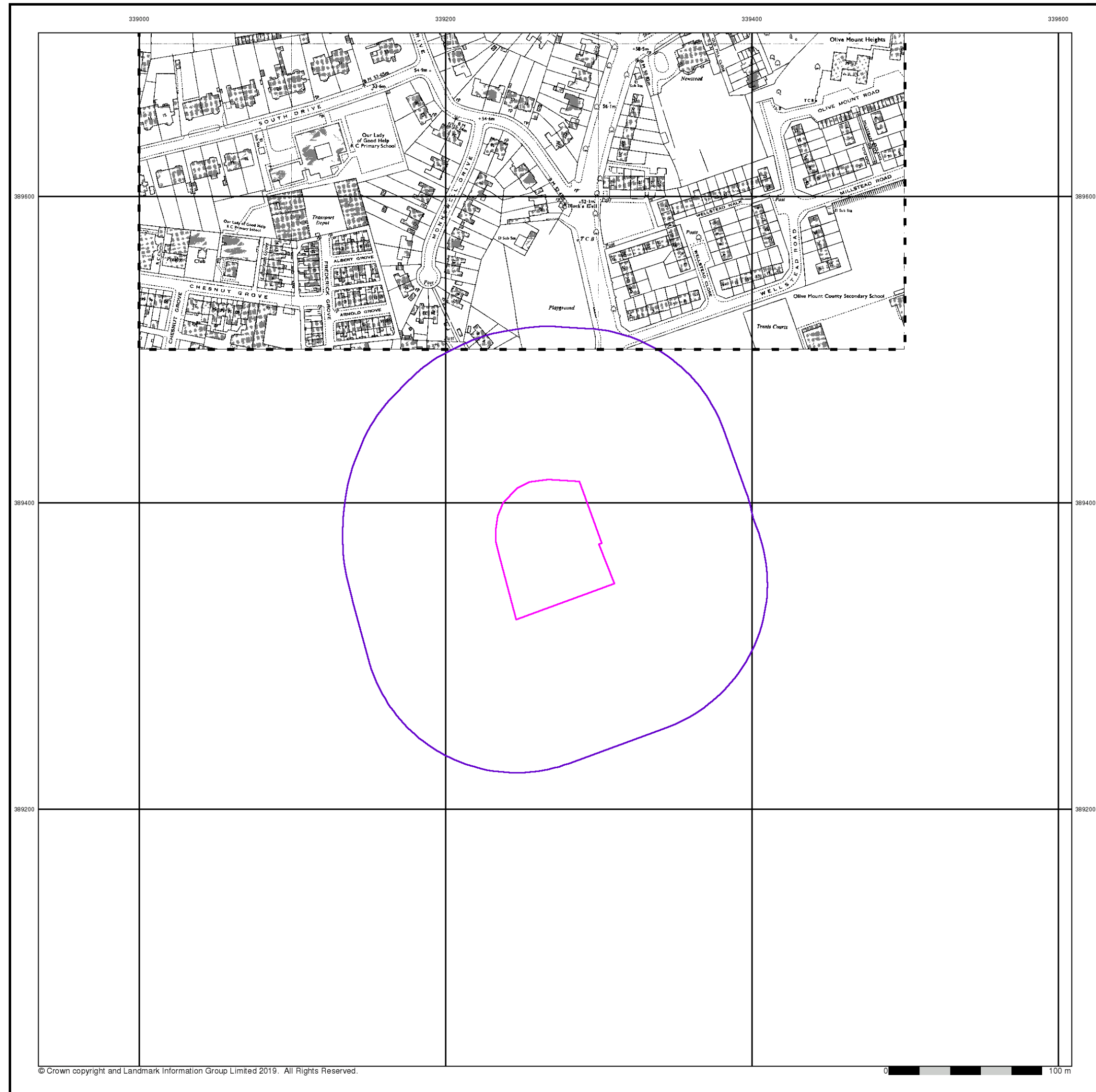
Slice:A

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Search Buffer (m):100

Site Details

Site at 339000, 389000



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Ordnance Survey Plan

Published 1977

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3989NW

1977

1:1,250

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:	227726891_1_1
Customer Ref:	714.01
National Grid Reference:	339270, 389370
Slice:	A
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Search Buffer (m):	100

Site Details

Site at 339000, 389000

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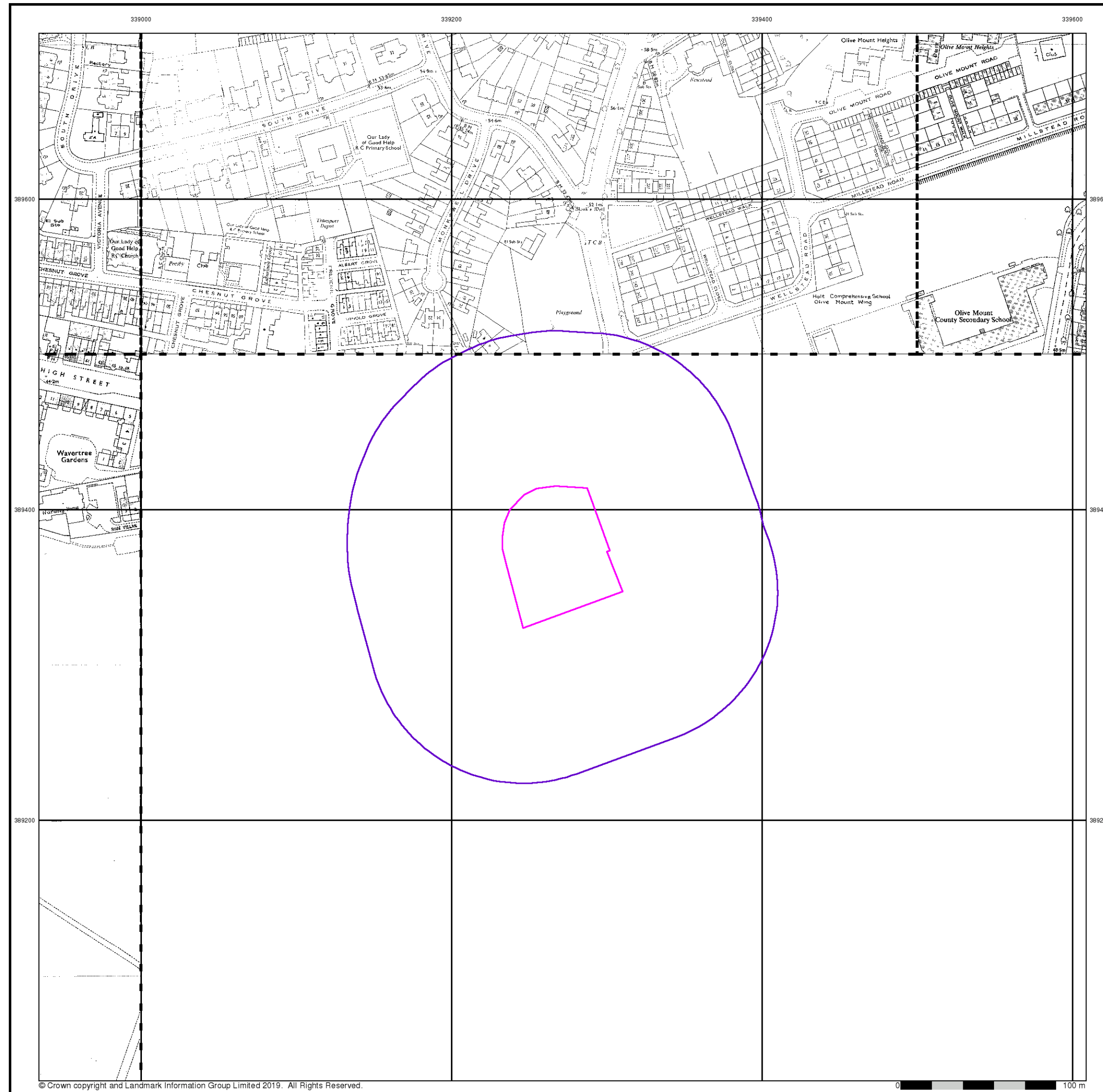
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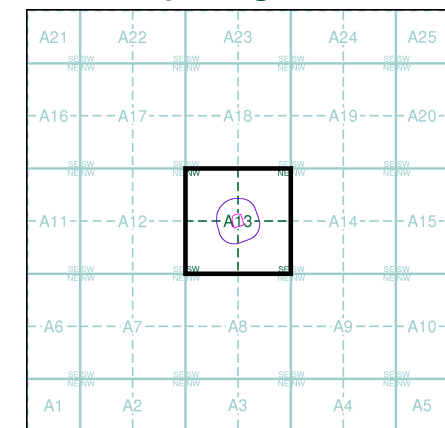
Additional SIMs
Published 1981 - 1992
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

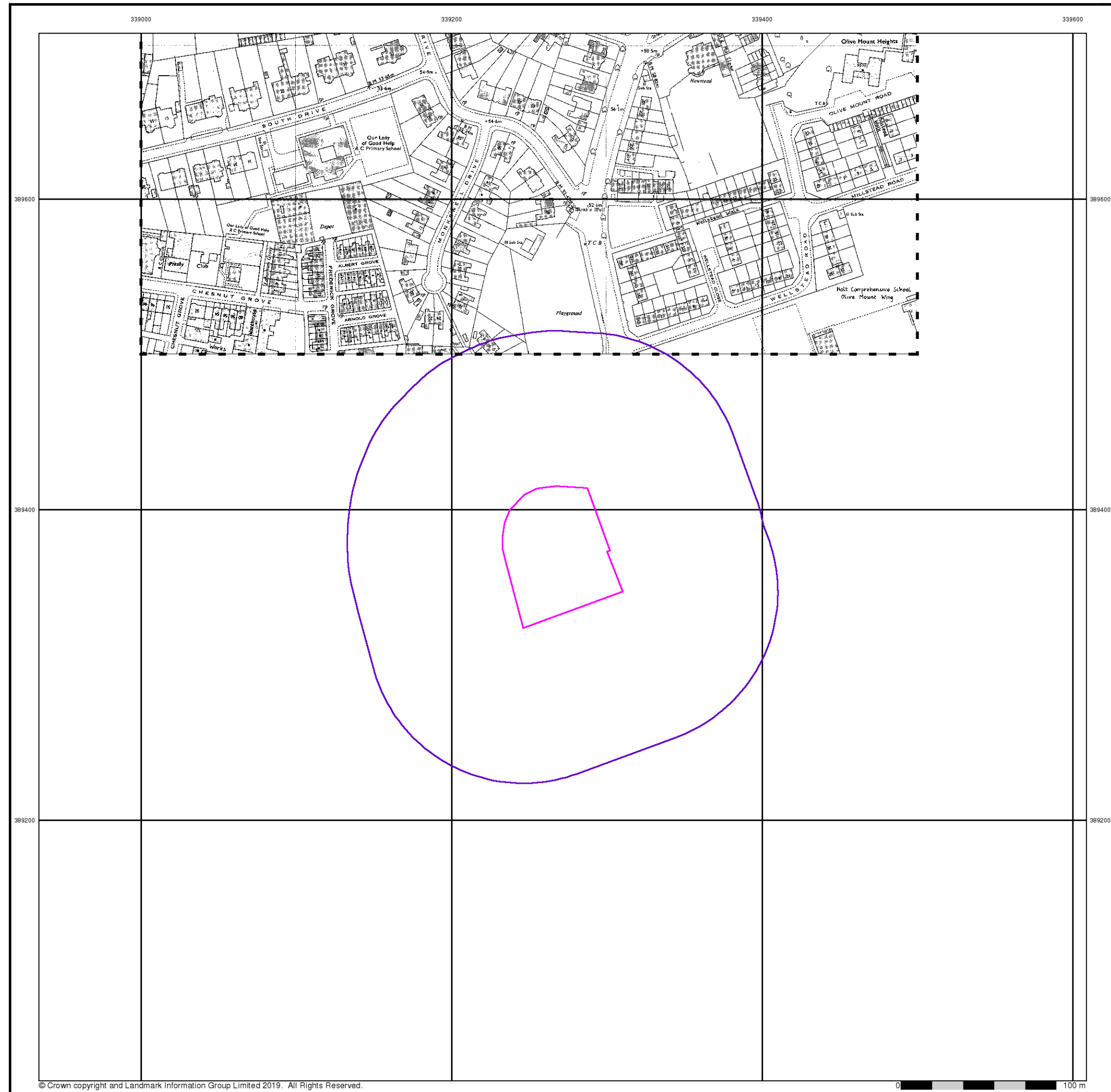
SJ3889NE	SJ3989NW	SJ3989NE
1989	1984	1981
1:1,250	1:1,250	1:1,250
SJ3889SE		
1992		
1:1,250		

Historical Map - Segment A13



Order Details
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

Site Details
Site at 339000, 389000



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Additional SIMs

Published 1986

Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3989NW

1986

1:1,250

Historical Map - Segment A13

Order Details

Order Number:	227726891_1_1
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Search Buffer (m):	100

Site Details

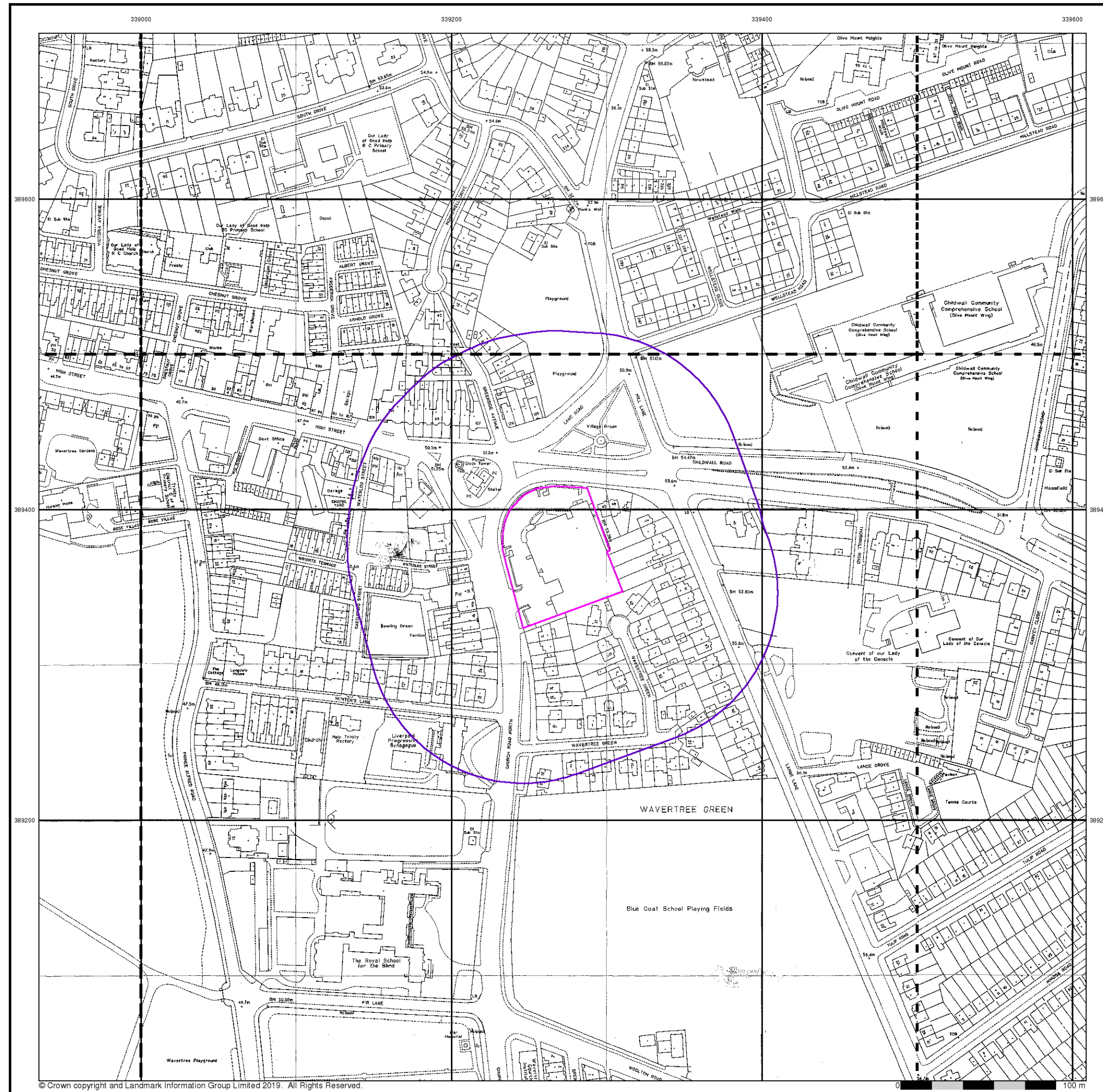
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Large-Scale National Grid Data

Published 1993

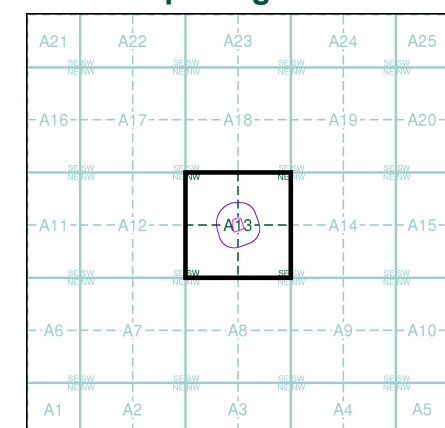
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3889NE 1993 1:1,250	SJ3989NW 1993 1:1,250	SJ3989NE 1993 1:1,250
SJ3889SE 1993 1:1,250	SJ3989SW 1993 1:1,250	SJ3989SE 1993 1:1,250

Historical Map - Segment A13



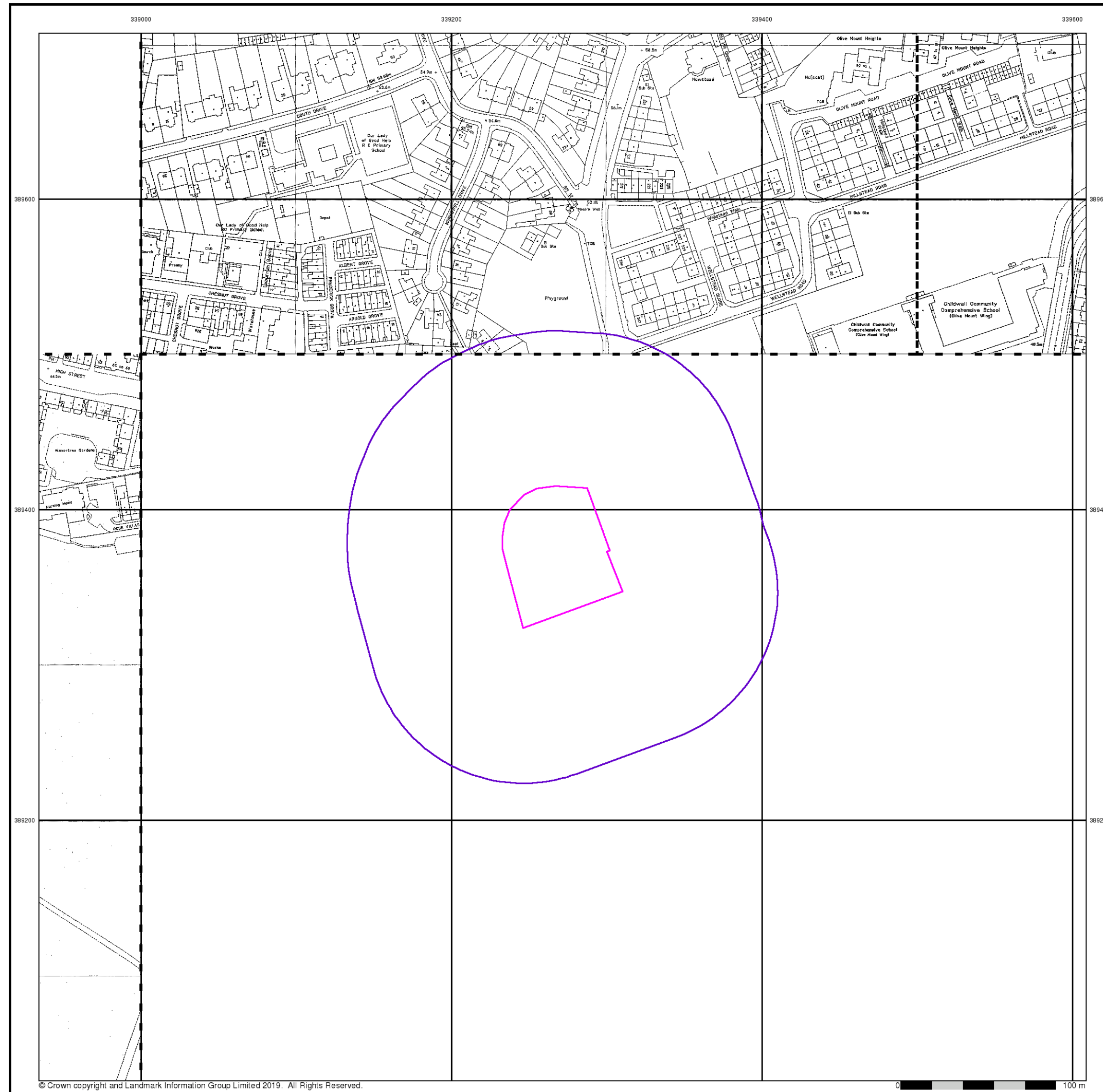
Order Details

Order Number: 227726891_1_1
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National Grid Reference: 339270, 389370
Slice: A
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Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1994

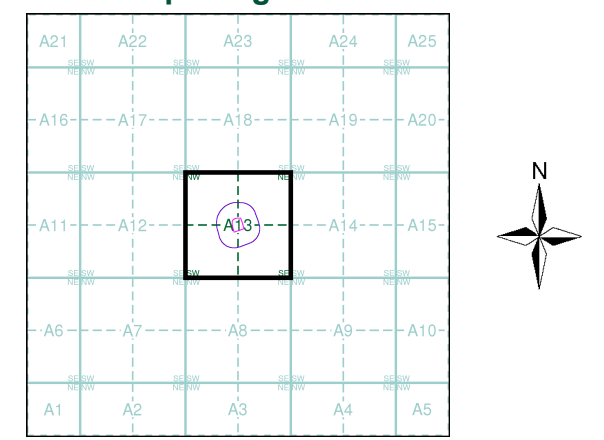
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3989NW	SJ3989NE
1994	1994
1:1,250	1:1,250
SJ3889SE	
1994	
1:1,250	

Historical Map - Segment A13

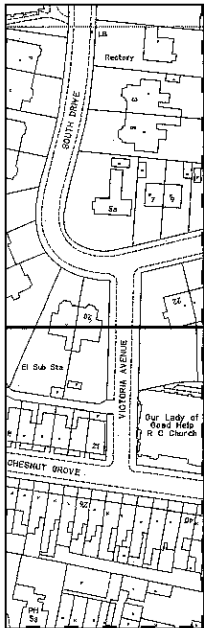


Order Details

Order Number: 227726891_1_1
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National Grid Reference: 339270, 389370
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Site Area (Ha): 0.5
Search Buffer (m): 100

Site Details

Site at 339000, 389000

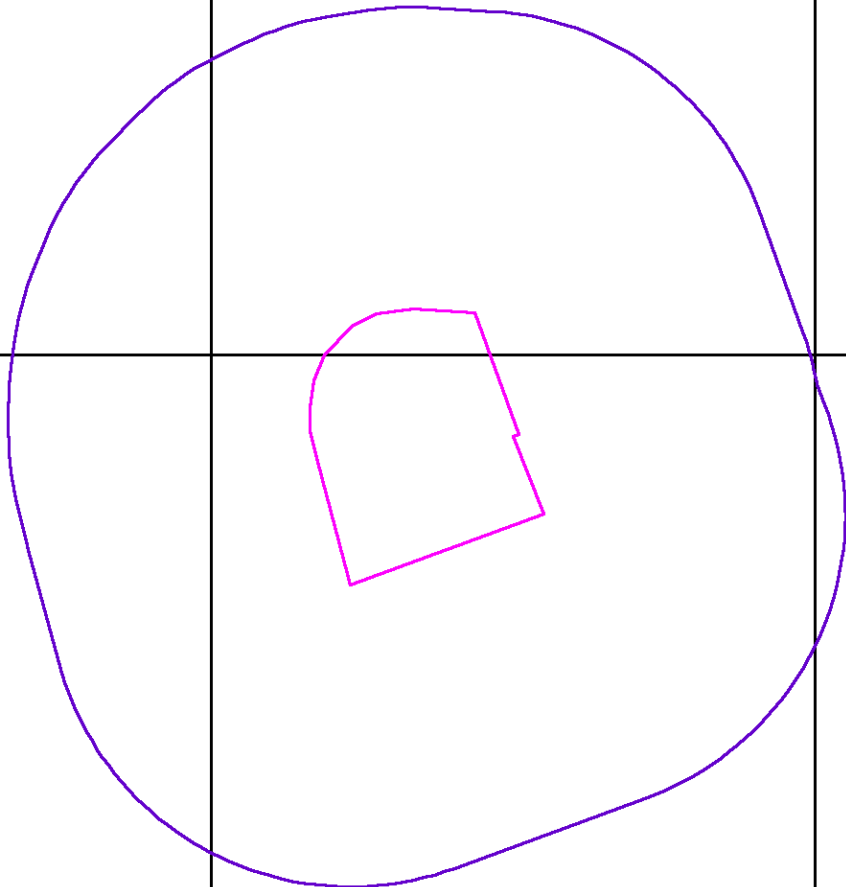


389600

389400

389200

339600



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Large-Scale National Grid Data

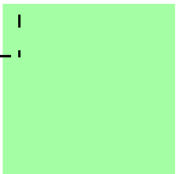
Published 1996

Source map scale - 1:1,250

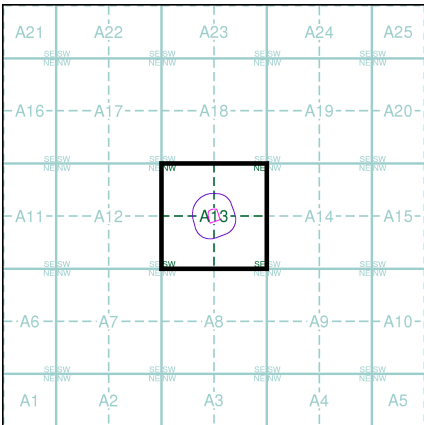
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3889NE
1996
1:1,250



Historical Map - Segment A13



Order Details

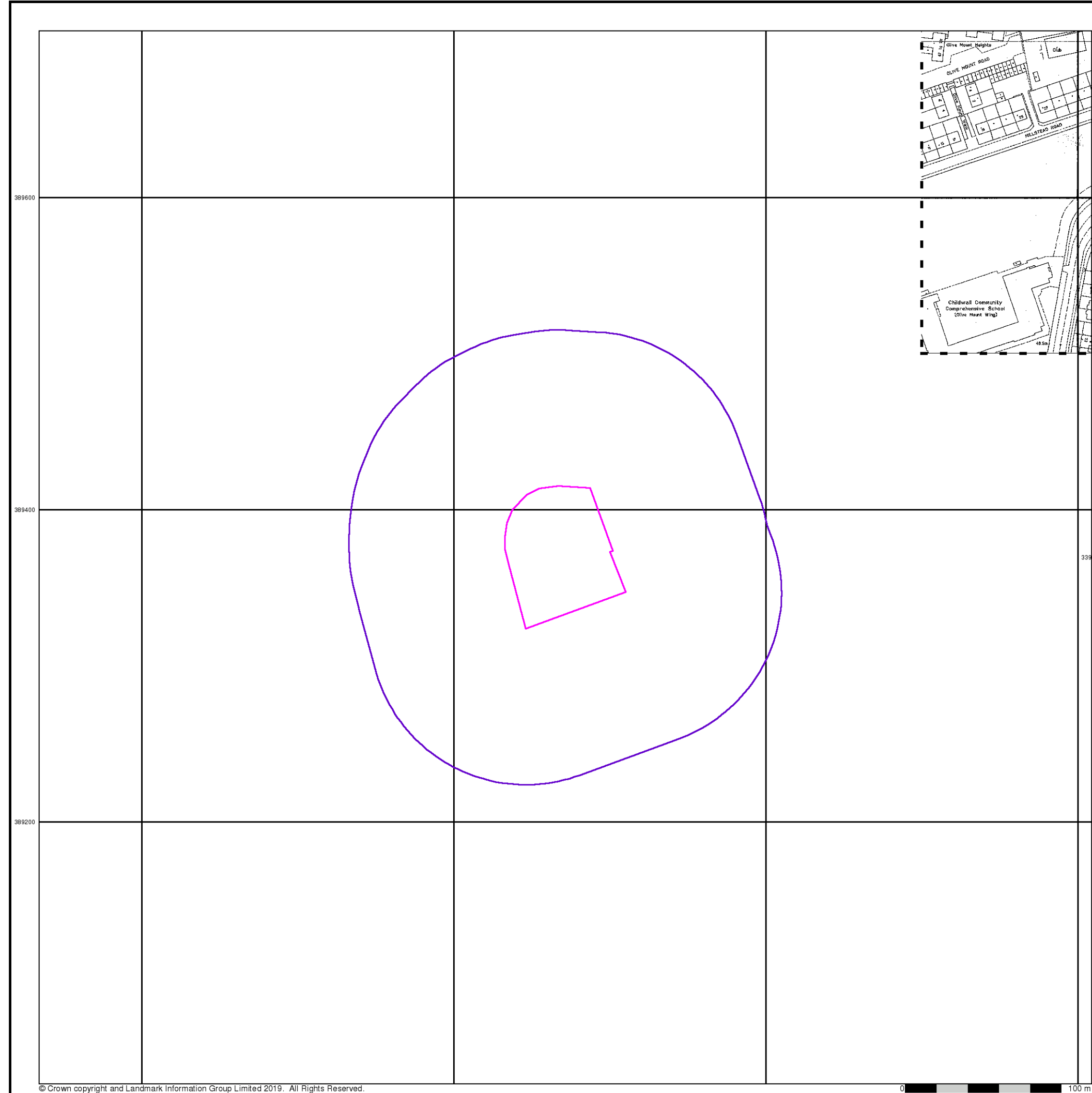
Order Number: 227726891_1_1
Customer Ref: 714.01
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Site Details

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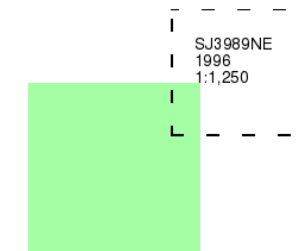
Large-Scale National Grid Data

Published 1996

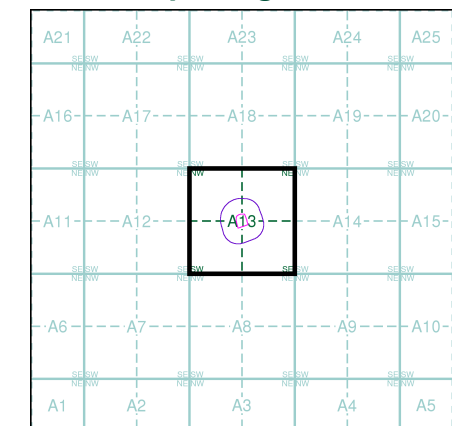
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 100

Site Details

Site at 339000, 389000

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

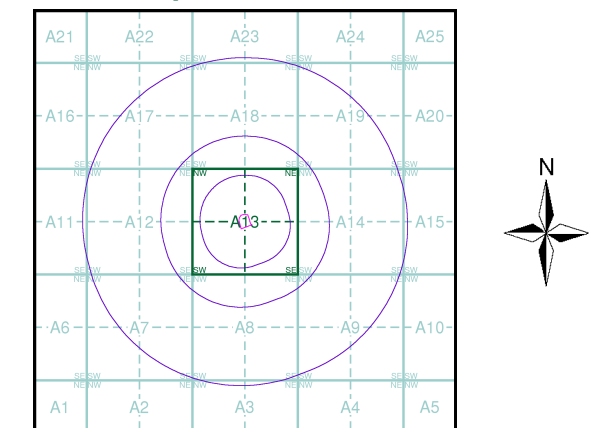
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	2
Cheshire	1:10,560	1881	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1909	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1956 - 1957	9
Ordnance Survey Plan	1:10,000	1965 - 1968	10
Ordnance Survey Plan	1:10,000	1974 - 1978	11
Ordnance Survey Plan	1:10,000	1982 - 1987	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1990	14
10K Raster Mapping	1:10,000	1999	15
Street View	Variable		16

Historical Map - Slice A



Order Details

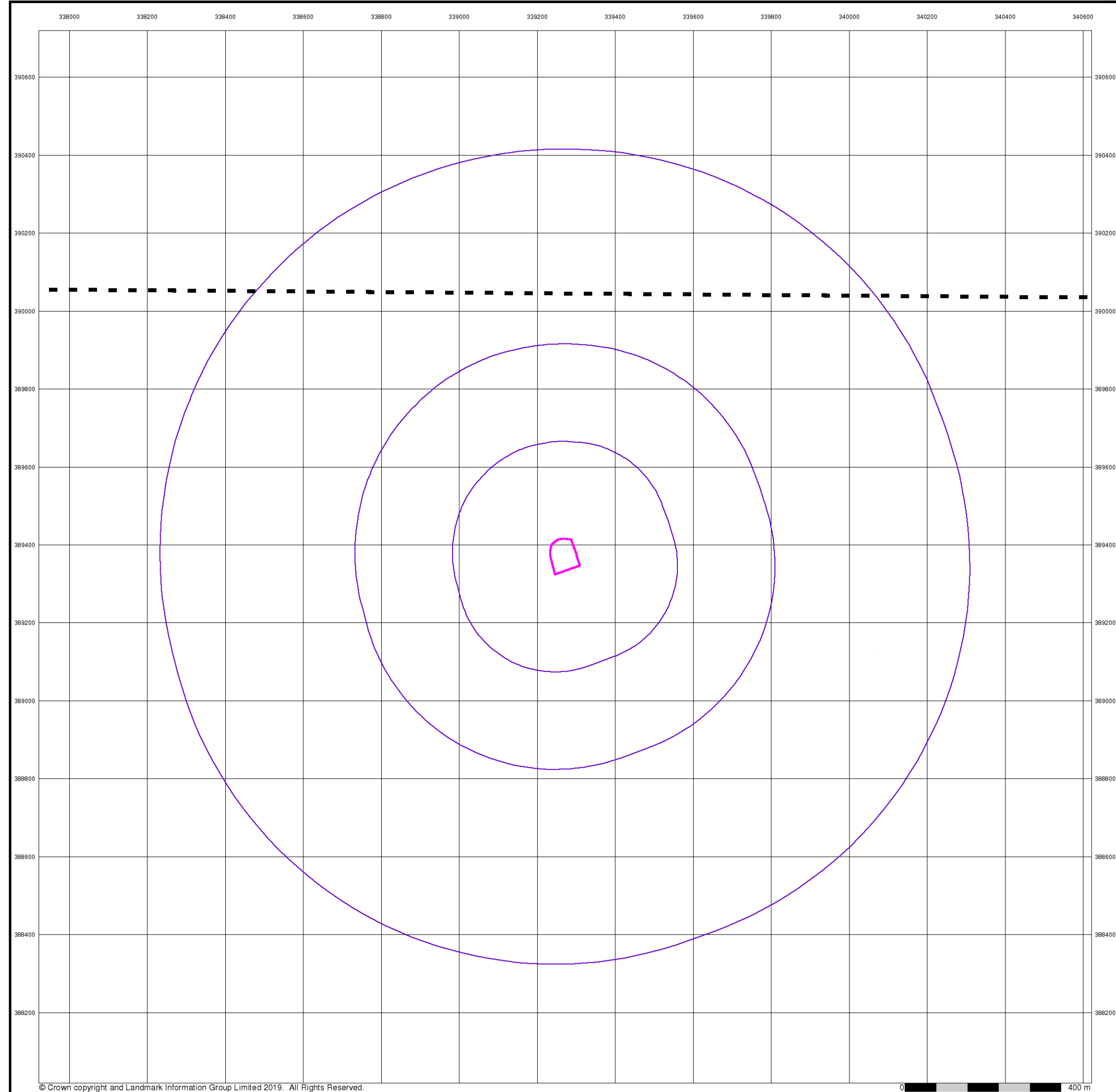
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 1000

Site Details

Site at 339000, 389000

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
Cheshire

Published 1881

Source map scale - 1:10,560


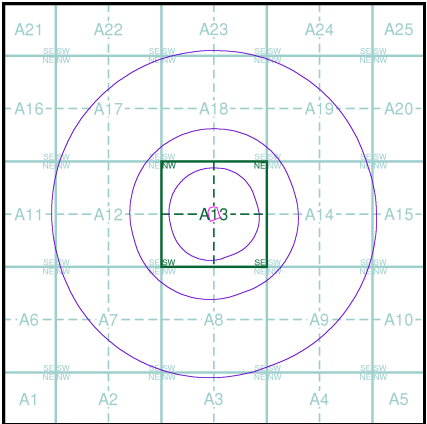
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



01400
1881
1:10,560

Historical Map - Slice A



Order Details

Order Number:	227726891_1_1
Customer Ref:	714.01
National Grid Reference:	339270, 389370
Slice:	A
Site Area (Ha):	0.5
Search Buffer (m):	1000

Site Details

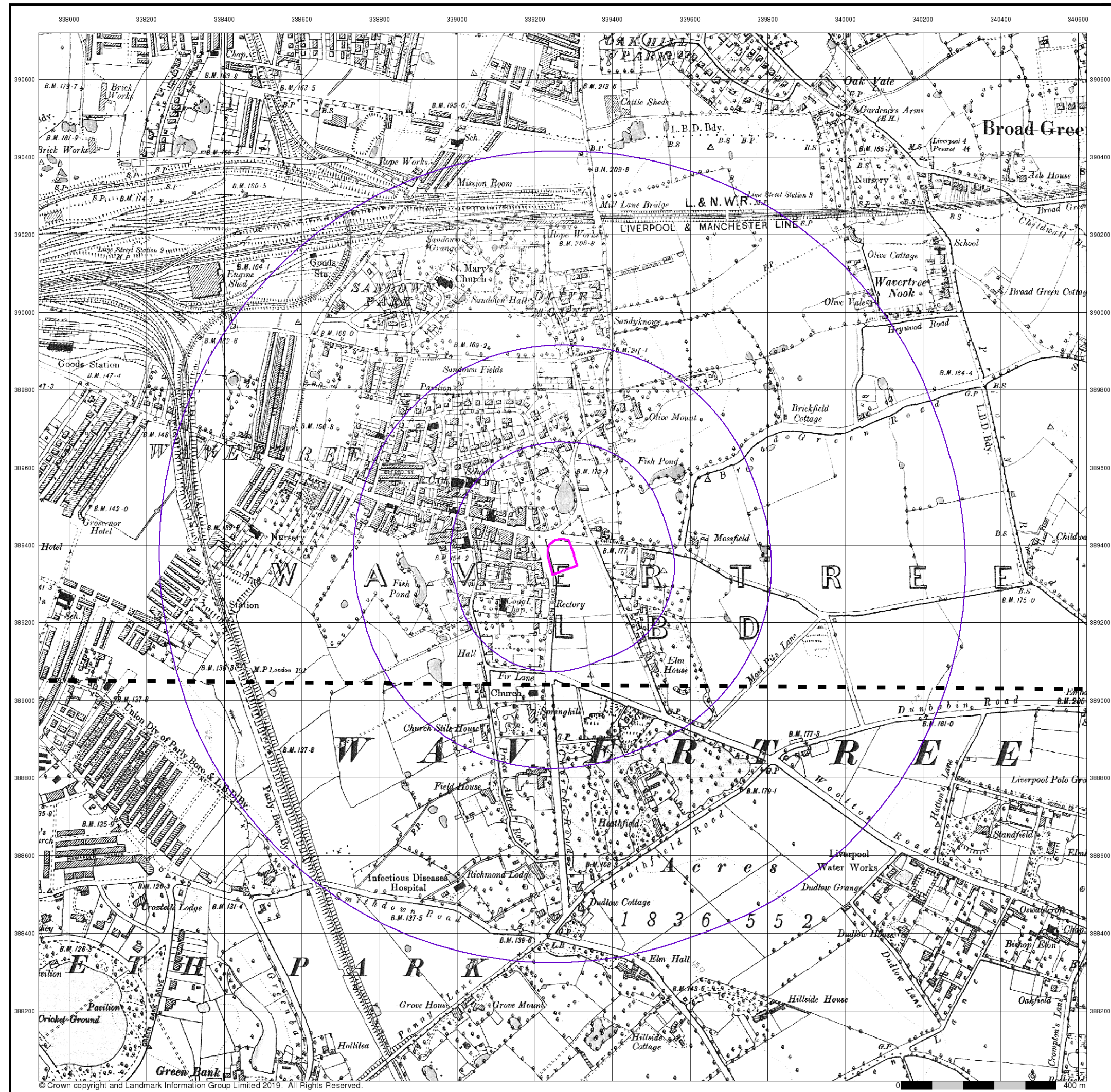
Site at 339000, 389000

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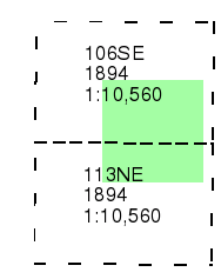
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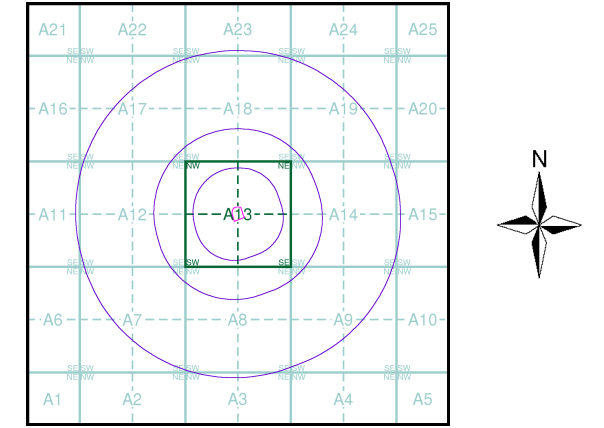


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Map Name(s) and Date(s)



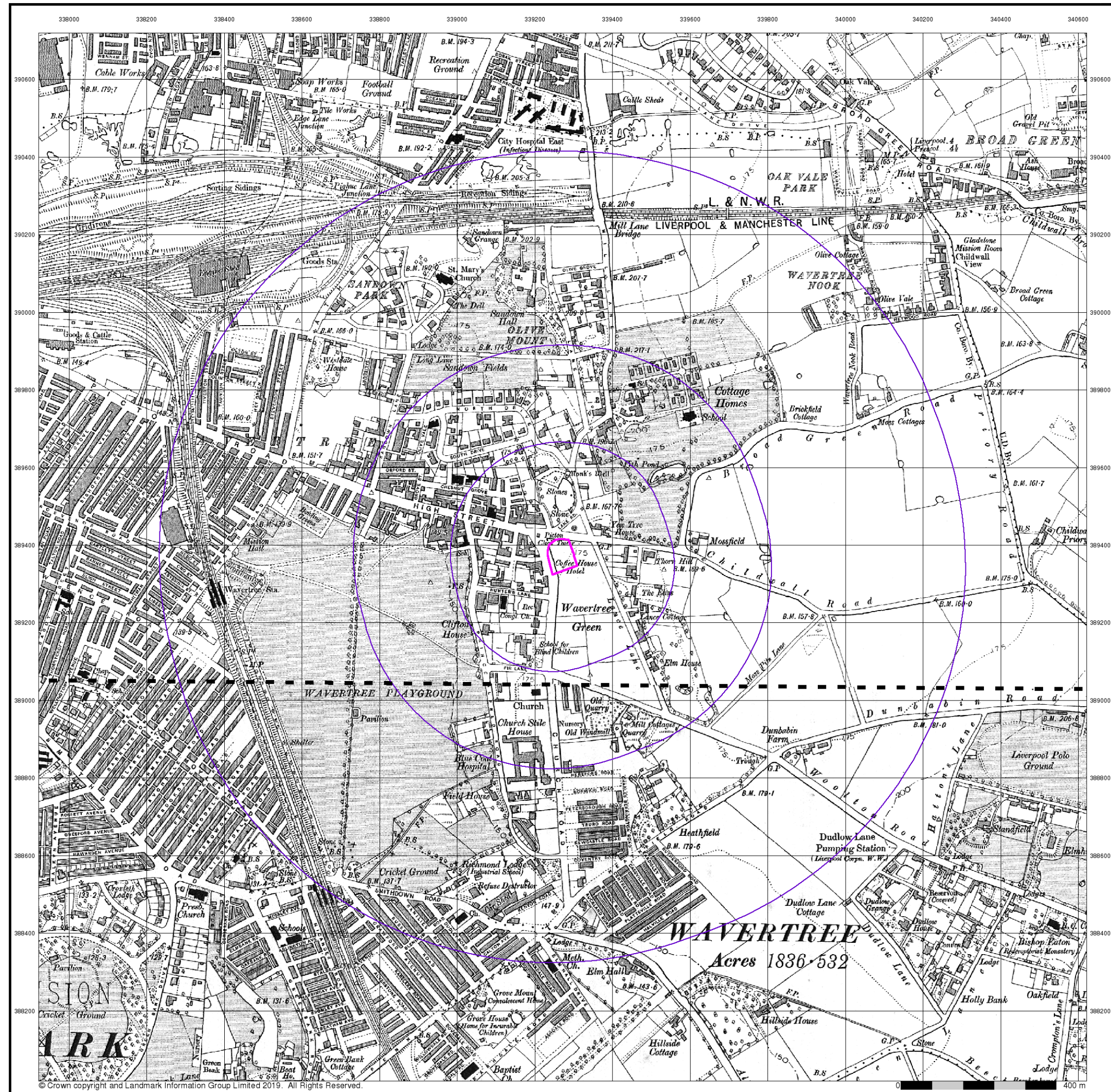
Historical Map - Slice A



Order Details	
Order Number:	227726891_1_1
Customer Ref:	714.01
National Grid Reference:	339270, 389370
Slice:	A
Site Area (Ha):	0.5
Search Buffer (m):	1000

Site Details

Site at 339000, 389000



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Lancashire And Furness

Published 1909

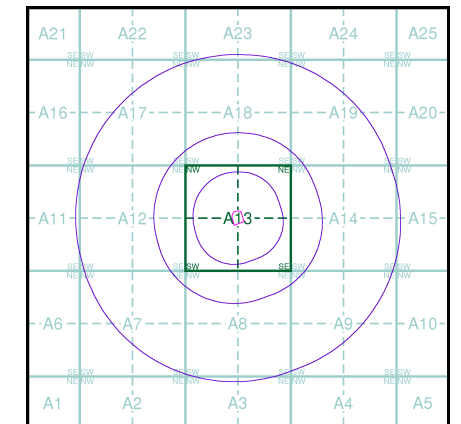
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

106SE
1909
1:10,560
113NE
1909
1:10,560

Historical Map - Slice A



Order Details

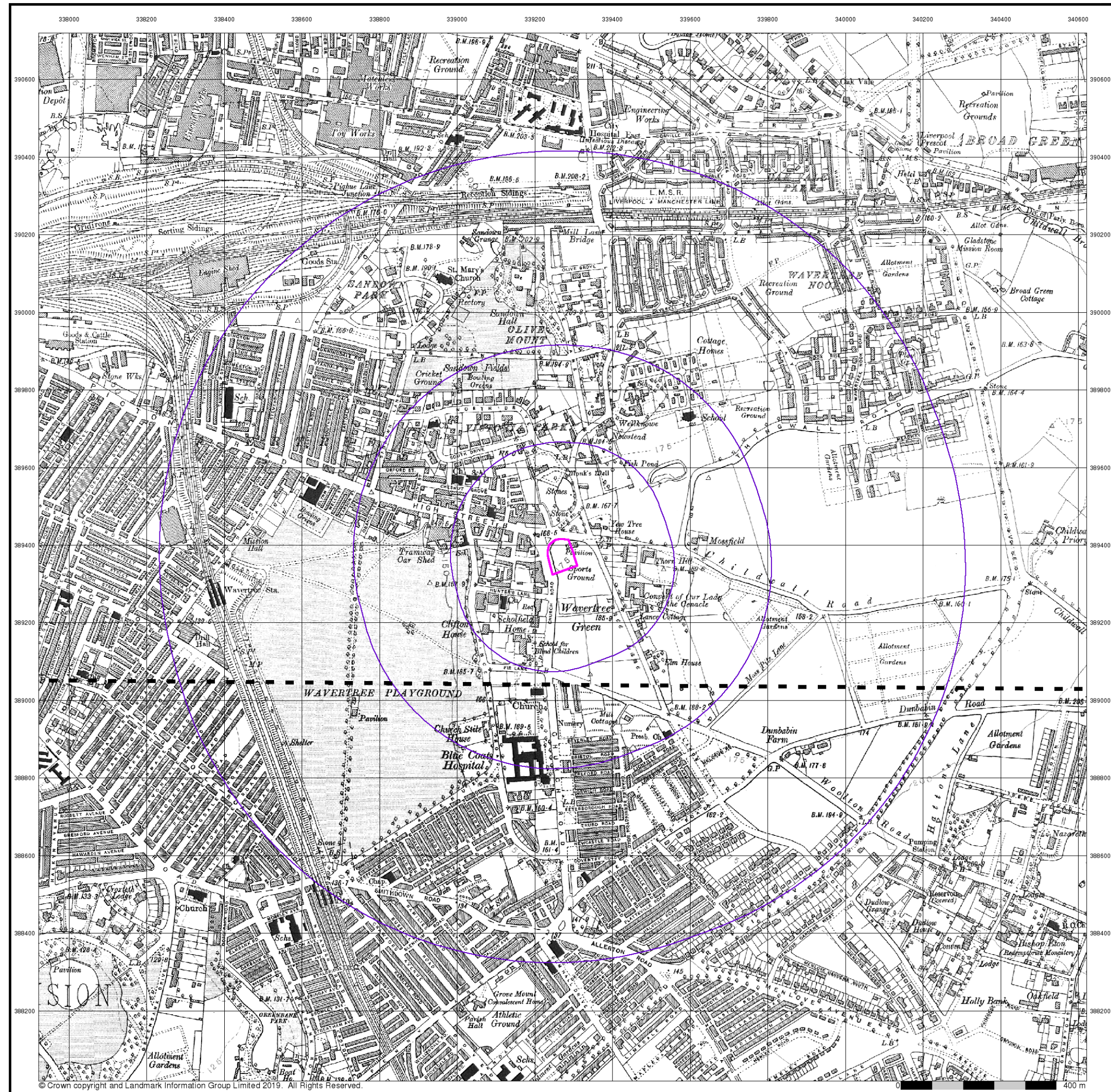
Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
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Lancashire And Furness

Published 1928

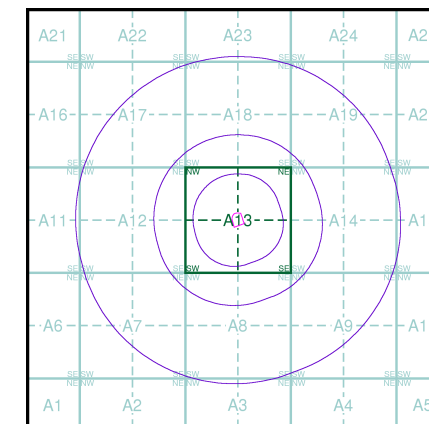
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

106SE
1928
1:10,560
113NE
1928
1:10,560

Historical Map - Slice A



Order Details

Order Number: 227726891_1_1
Customer Ref: 714.01
National Grid Reference: 339270, 389370
Slice: A
Site Area (Ha): 0.5
Search Buffer (m): 1000

Site Details

Site at 339000, 389000



Lancashire And Furness

Published 1928

Source map scale - 1:10,560

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Map Name(s) and Date(s)

106SE

1928

1:10,560

Historical Map - Slice A

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

Order Details

Order Number:

227726891_1_1

Customer Ref:

714.01

National Grid Reference:

339270, 389370

Slice:

A

Site Area (Ha):

0.5

Search Buffer (m):

1000

Site Details

Site at 339000, 389000