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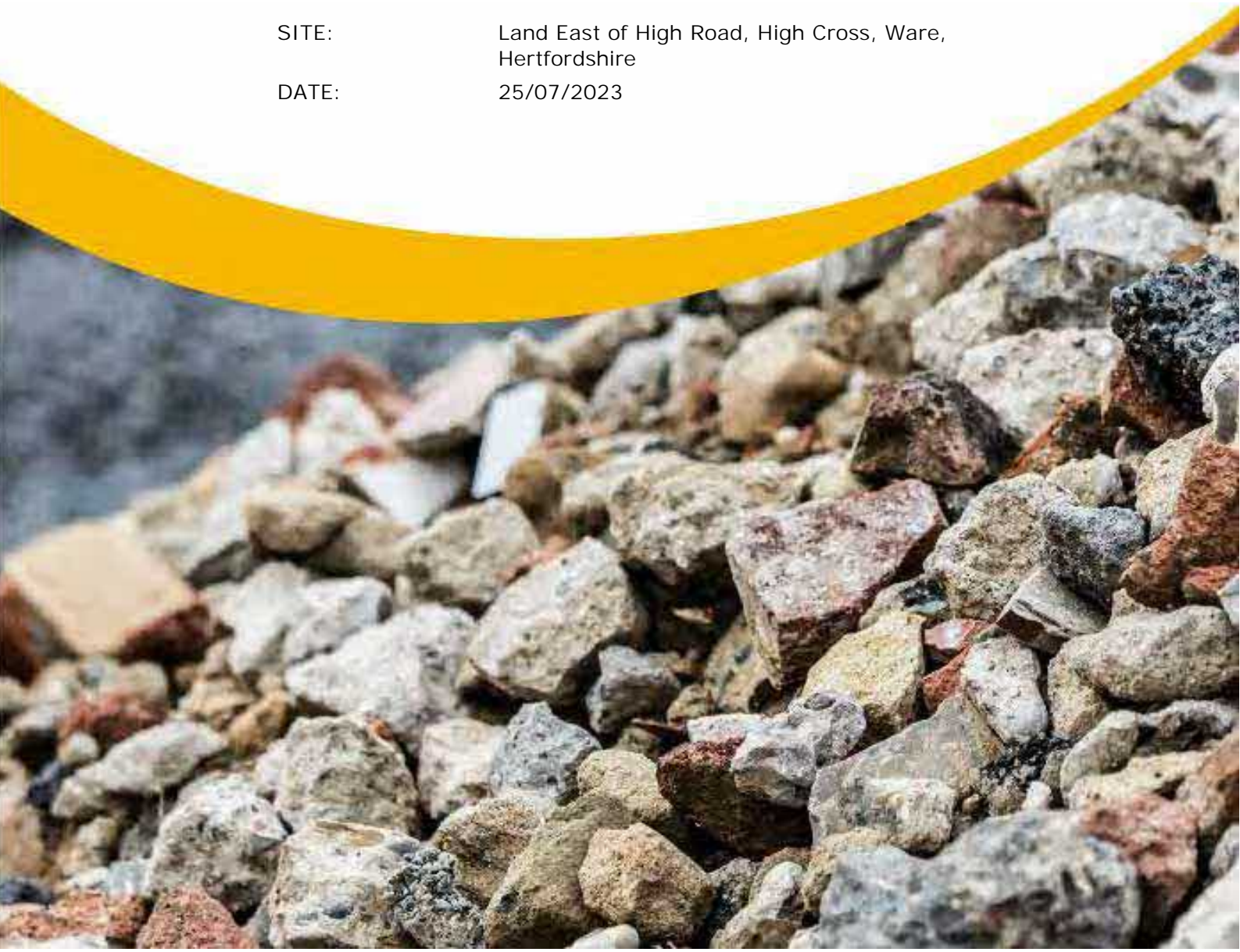
GEOSPHERE ENVIRONMENTAL

REPORT NUMBER: 7277,EC,AR,DS,DESK,AH,TP,25-07-23,V1

REPORT NAME PHASE 1 DESK STUDY

SITE: Land East of High Road, High Cross, Ware,
Hertfordshire

DATE: 25/07/2023



DOCUMENT CONTROL SHEET

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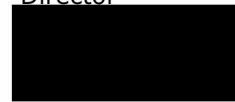
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Executive Summary

Introduction	Geosphere Environmental Ltd was commissioned by the Client, M Scott Properties LTD, to undertake a Phase 1 Desk Study and Preliminary Risk Assessment for a proposed residential development at Land East of High Road, High Cross, Ware, Hertfordshire. It was understood that the site is to be developed into a number of residential dwellings, along with associated gardens, parking, infrastructure, allotments, school expansion and church yard extension.
Site Location	The subject site was situated in the village of High Cross and may be located by National Grid Reference (NGR) TL 36605 18788. A nearby postcode for the site is SG11 1BE.
Site Description	At the time of the walkover the site comprised of an irregular shaped parcel of land, approximately 7.75ha in size. The topography was generally level but with a slight slope towards the south of the site. The site was arable farmland with scattered trees and hedgerows along the site boundaries. Two drains were noted in the northwest field. Along the southern site boundary there was a drainage ditch which was mostly dry but had standing water in some areas.
History	The review of historical maps provided information about changes to the site and its surroundings between 1879 and 2023. Based upon the historical information it has been concluded that the site has only undergone minor changes since the earliest available map until the present time. The information about the former uses of the site, indicated that the site has always been undeveloped land/agricultural land. There have been minor changes such as alterations in the field margins and the removal of a track which ran through the site.
Preliminary Conceptual Site Model	The reports to date have identified a historic bonfire location as the only onsite potential hazard, and historic PACMs on the northern boundary and nearby infilled land as the only offsite potential hazards.
Further Work	It is recommended that a limited preliminary and targeted intrusive ground investigation is undertaken to determine the extent of any potential contamination within the soil strata. It is also recommended that monitoring wells for ground gas should be installed with subsequent monitoring visits undertaken. It may also be financially prudent to undertake a geotechnical investigation of the site at the same time as any environmental investigation to enable foundation recommendations to be proposed.
<p>This Executive Summary only provides a summary of the site data and its assessment. It does not provide a definitive engineering analysis and is for guidance only. It is recommended that the reader reviews the report in its entirety and any material referenced therein.</p>	

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1. INTRODUCTION

Geosphere Environmental Ltd was commissioned by the Client, M Scott Properties LTD, to undertake a Phase 1 Desk Study and Preliminary Risk Assessment for a proposed residential development at Land East of High Road, High Cross, Ware, Hertfordshire.

It was understood that the site is to be developed into a number of residential dwellings, along with associated gardens, parking, infrastructure, allotments, school expansion and church yard extension.

The primary objectives of the preliminary risk assessment were to:

- Provide an assessment of environmental sensitivity at the site and the surrounding area in relation to any suspected or known contamination which may significantly affect the site and the proposed development; and
- Indicate whether further works are required, and the nature of the works, to enable a more complete assessment of the site.

These were achieved by:

- Undertaking a walkover of the site;
- Researching and assessing the available information regarding the current site status, including recorded geology, hydrogeology and hydrology of the site and surrounding area and the history of the site; and
- Developing a Preliminary Conceptual Site Model.

1.1 Previous Reports

Geosphere Environmental Limited have produced a number of reports for the subject site, including Phase 1 Desk Study (report ref 2336,EC,AR,DS-DESK-LT,JD,31-03-17,V1), although the red line boundary was different. This report serves to update and ultimately supersede the previous report given the time that has elapsed since its creation.

2. SITE SETTINGS

2.1 Site Location

The subject site was situated in the village of High Cross and may be located by National Grid Reference (NGR) TL 36605 18788. A nearby postcode for the site is SG11 1BE.

2.2 Site Description

A site walkover was undertaken on 21 June 2023. At the time of the walkover the site comprised of an irregular shaped parcel of land approximately 7.75ha in size. The topography was generally level but with a slight slope towards the south of the site. The site was arable farmland with lightly vegetated field margins, there were scattered trees and hedgerows along the site boundaries. Two drains were noted in the northwest field. Along the southern site boundary there was a drainage ditch which was mostly dry but had standing water in some areas. A bonfire noted in the previous report was not evident during this walkover.

Beyond the continuation of arable land, a vegetated bund separated the site from the A10 road, which was located to the east of the site, beyond which was further arable land. Directly to the south of the site there was a mixture of land use including a school, a residential area and continued arable land. A row of residential properties bordered the west of the site, situated along High Road. Beyond this road was further undeveloped and agricultural land. There was an oil tank located offsite to the south, it was positioned upon hard standing and upon inspection there were no visible spillages in the vicinity.

A Site Location Plan and Site Plan are included within Appendix 6 as Drawing references 7277,EC,AR,DS/001/Rev1 and 7277,EC,AR,DS/002/Rev1 respectively.

Selected site photographs from the walkover have been included within Appendix 7 of this report.

2.3 Geological Setting

Details of the geology underlying the site have been obtained from the British Geological Survey (BGS) digital mapping at a scale of 1:50,000, which is provided within the Envirocheck Report included in Appendix 4.

2.3.1 Superficial Deposits

The geological map indicated the site to be underlain by superficial deposits of the Lowestoft Formation Diamicton.

2.3.2 Bedrock Geology

The geological map indicated bedrock Geology underlying the site comprised Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated).

2.3.3 Geohazards and Ground Workings

Table 1 below summarises the factors that may have a potential impact upon the engineering of the proposed development:

Table 1 – Geohazards and Ground Workings			
Potential Hazard	Recorded Risk [m] / [Direction]		Comments
	Onsite	Within 250m	
Non-Coal Mining Areas of Great Britain	Rare	-	
Collapsible Ground	Very Low	-	
Ground Dissolution	Very Low	-	
Landslide	Very Low	Low	
Running Sand	Very Low	-	

2.4 Hydrogeological Setting

2.4.1 Underlying Aquifers

The hydrogeological data provided within the Envirocheck Report indicate Secondary Undifferentiated Aquifer overlying a bedrock Principal Aquifer.

The Environment Agency defines a Principal Aquifer as 'layers of rock or drift deposits that have high intergranular and/or fracture permeability – meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale'.

The Environment Agency defines a Secondary Undifferentiated Aquifer 'has been assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type'.

2.4.2 Groundwater Vulnerability

The Environment Agency defines areas of high groundwater vulnerability as 'Areas that offer some groundwater protection. They are likely to be characterised by intermediate leaching soils and/or the presence of intermediate permeability superficial deposits'.

Soils of intermediate leaching potential are soils that can possibly transmit a wide range of pollutants or are soils that can "...possibly transmit non or weakly adsorbed pollutants and liquid discharges but are unlikely to transmit adsorbed pollutants".

2.4.3 Source Protection Zones

The site was located within a 'Zone III' (Total Catchment) groundwater source protection zone i.e., it was within the total area required to support the discharge from a protected groundwater source.

There were no groundwater abstraction wells within 500m of the site. The closest well was situated approximately 875m to the Southeast of the site and was used for general agriculture.

2.4.4 Groundwater Flooding

The Envirocheck data indicates the site is with limited potential to groundwater flooding to occur.

2.5 Hydrological Setting

The nearest surface watercourse or feature was the field drain/ditch onsite.

There were no surface water abstractions, located within 500m of the site.

2.6 Radon

The site is indicated to lie within an area where there is a probability of <1% of present or future homes being above the action level of 200Bq/m³. As such, the site is not classified as a Radon Affected Area.

2.7 Nitrate Vulnerable Zone

The site was located within an area designated as a nitrate vulnerable zone.

The Nitrates Directive, (ref. R.1) defines a nitrate vulnerable zone as:

Surface freshwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l;

Groundwater which contains or could contain, if preventative action is not taken, nitrate concentrations greater than 50mg/l; and/or

Natural freshwater lakes or other freshwater bodies, estuaries, coastal waters and marine waters, which are eutrophic or may become so in the near future if protective action is not taken.

3. ENVIRONMENTAL SEARCHES

3.1 Environmental Searches Summary

The environmental searches are detailed fully within the Envirocheck Report presented within Appendix 3. Table 2 shown below summarises the most relevant findings:

Table 2 – Environmental Searches Summary				
Activity	Distance From the Site			Comments [m]/[direction]
	Onsite	Within 250m	250m to 500m	
1. Incidents and Registers				
Discharge Consents	-	-	2	Sewage Discharges – Final/Treated Effluent – Not Water Company – [263m/SW] [398m/SW]
Local Authority Pollution Prevention and Control	-	1	-	PG1/14 Petrol filling station – [137m/SW]
2. Flooding				
Extreme Flooding from Rivers or Sea without Defences	-	1	-	Extent of Extreme Flooding – [208m/N]
Flooding from Rivers or Sea without Defences	-	1	-	Extent of Flooding – [208m/N]
BGS Groundwater Flooding Susceptibility	1	1	1	Limited Potential for Groundwater Flooding to Occur – [Onsite]
3. Landfills and Waste Treatment / Disposal Sites				
Potentially Infilled Land (Water)	-	1	-	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) (1899) – [29m/N]
4. Contemporary Trade Entries of Concern				
Contemporary Trade Directory Entries	-	3	1	Petrol Filling Stations – [119m/SW] [136m/SW] Garage Services – [206m/S] Car Dealers – [253m/SW]
Fuel Stations	-	1	-	Petrol Filling Station – [137m/SW]
Commercial Services	-	2	-	Vehicle Cleaning Services – [125m/SW] Vehicle Repair, Testing and Servicing – [137m/SW]
Manufacturing and Production	-	1	1	Arable Farming – [68m/N]
Public Infrastructure	-	1	-	Petrol and Fuel Stations – [138m/SW]
5. Designed Environmentally Sensitive Sites				
Ancient Woodland	-	-	3	Ancient and Semi-Natural Woodland – [328m/NE] [375m/SE] Plantation on Ancient Woodland – [333m/E]

Where no relevant or significant data records exist for an activity, it is removed from the summary table. All data is included within Appendix 3.

4. SITE HISTORY

4.1 Historical Maps

A review of the history of the site has been conducted based upon the historical maps included within the Envirocheck report included in Appendix 4.

The relevant changes of the subject site and immediate surrounding area from the mapping are detailed in Table 3 below:

Table 3 – Historical Summary		
Date	Potentially Contaminative Land Uses / Significant Changes	
	Onsite [Direction]	Offsite [Distance/Direction]
1879-1880 (1:2,500) 1898 (1:2,500)	The site was depicted as an undeveloped parcel of land in the earliest available mapping. The track leading to Sutes Farm to the north of the site was recorded to bisect the northernmost section of the site.	Sutes Farm was depicted to the north of the site from the earliest available mapping, along with associated ponds and moats. [0-100m/N] Infant and Junior Schools, St Johns church and The Vicarage were all depicted to the southwest and south of the site from the earliest available mapping. [0-100m/S&SW] Pond depicted from the earliest available mapping. [80m/NW]
1923 (1:2,500) 1947-1950 (1:10,560)	No significant changes.	Pond associated with Sutes Farm no longer depicted from 1923. [20m/N] Residential Development depicted from 1947. [0-75m/NW]
1974 (1:2,500) 1977-1978 (1:10,000)	No significant changes.	Residential Development depicted from 1974. [0-150m/S] Pond no longer depicted from 1974. [80m/NW]
1999 (1:10,000) 2006 (1:10,000) 2023 (1:10,000)	No significant changes.	A10 Road depicted running adjacent to the eastern site boundary from 2006. [20m/E]
<p>Notes:</p> <p>The dates of the maps do not always correspond with the time of the surveys.</p> <p>Where no significant factors or changes occur within a map edition(s) it is summarised with "No significant changes".</p> <p>The alignment and extent of the detailed site area in early map editions is often mis-aligned compared to modern mapping due to variation in mapping/digitisation processes; this is compensated for where possible within the interpretation.</p>		

4.2 Site History Summary

The review of historical maps provided information about changes to the site and its surroundings between 1879 and 2023. Based upon the historical information it has been concluded that the site has only undergone minor changes since the earliest available map until the present time. The information about the former uses of the site, indicated that the site has always been undeveloped land/agricultural land. There have been minor changes such as alterations in the field margins and the removal of a track which ran through the site.

The surrounding area has remained mostly as undeveloped land. There has been an increase in residential developments to the south and west of the site. From 2006, the A10 road was depicted running adjacent to the eastern site boundary.

5. PRELIMINARY CONCEPTUAL SITE MODEL

The risk assessment methodology is based upon current guidelines and legislation (refs. R.2, R.4 and R.6).

The current guidance requires that a conceptual site model (CSM) be formulated, based upon the findings of the research. The CSM aims to identify and assess potential 'hazards'; the potential 'receptors' that may be affected and the anticipated 'pathways' by which the hazard may negatively impact the receptors. Where there is reasonable potential for all three components to be present at a site, then they constitute a potential pollutant linkage (PPL) and have been included in the CSM below. The CSM is limited at this stage to the identification and assessment of potential 'hazards', identified or suspected from the results of the research. The findings are summarised in the following subsections.

The guidance proposes a four-stage approach for the assessment of contamination and the associated risks. The four stages are listed below:

- Hazard Identification;
- Hazard Assessment;
- Risk Estimation; and
- Risk Evaluation.

Should a complete PPL be present which is deemed to pose a potential risk to identified receptors, then further investigation works are likely to be recommended.

5.1 Hazard Identification: Onsite

The desk based research, site walkover and historical review did not identify any new onsite hazards in addition to those highlighted in the previous report.

Therefore, the onsite hazards are considered to be limited to a former bonfire on the western boundary.

5.2 Hazard Identification: Offsite

The desk-based research and historical review identified the following offsite as potential hazards that may impact upon the site:

- Historically backfilled ponds;
- Made Ground associated with Sutes farm and surrounding residential developments;
- Potential ACM fragments identified along the northern site boundary;
- Oil tank identified to the south of the site.

The Made Ground associated with Sutes Farm can be discounted as a hazard, it is unlikely to pose a significant risk to the subject site and the oil tank can also be discounted as it was in good condition, located upon hardstanding and there were no signs of any spillages or leaks.

5.3 Risk Assessment

The preliminary risk assessment has identified potential sources of contamination that may pose a risk to human health and the Controlled Waters. Potential pollutant linkages that require further consideration are presented in Table 4 shown overleaf:

Table 4 – Preliminary Conceptual Site Model

Sources	PATHWAYS:					RECEPTORS:						Risk Rating	Comments
	Root Uptake	Direct Contact	Ingestion	Respiration	Gas Accumulation	Plants	End Users	Structures (Concrete)	Services/Utilities	Construction Workers	Controlled Waters (GW)		
Bonfire along the western site boundary (identified in previous report).	L	L	L	U	U	Mo	Mo	Mo	Mo	Mi	Mo	MR-LR	This source is deemed to pose a moderate to low risk to sensitive receptors and should be a focus of targeted ground investigation.
PACM fragments along northern site boundary (identified in previous report).	N	N	N	U	N	N	Mo	N	N	Mo	N	MR-LR	Any ground investigation undertaken should target this potential source in order to discount it from further consideration during construction activities onsite.
Infilled Former Ponds (Offsite) to the north (20m) and northwest (80m) of the site.	N	N	N	N	L	N	Mi	N	N	Mi	N	MR-LR	Due to the unknown nature of the material used to backfill the former ponds, the potential for ground gas generation cannot be discounted at this stage. It is therefore recommended that ground gas monitoring wells are installed, and subsequent monitoring is undertaken.
Legend: - See Comparison of Consequence Against Probability within Appendix 5 for Key to Legend.	Probability:					Consequence (Severity):						Risk Rating:	
	Negligible (N)					Negligible (N)						Very High Risk	VH
	Unlikely (U)					Mild (Mi)						High Risk	HR
	Likely (L)					Moderate (Mo)						Moderate Risk	MR
	Highly Likely (HL)					Severe (S)						Low Risk	LR
											Negligible Risk	NR	

6. CONCLUSIONS AND RECOMMENDATIONS

Based upon the findings of the preliminary risk assessment, the site walkover and the previous report, a limited number of potential contaminant sources and pathways to potential receptors have been identified.

It is recommended that a preliminary targeted intrusive ground investigation is undertaken to determine the extent of any potential contamination within the soil strata.

It is recommended that monitoring wells for ground gas should be constructed onsite as part of the investigation with subsequent monitoring visits undertaken.

Any ground investigation should be designed in general accordance with CLR 4, (ref. R.5) undertaken in compliance with BS 10175:2011+A2:2017, (ref. R.6) and BS 5930:2015+A1:2020, (ref. R.7).

It is recommended that this report be submitted to the Local Authority as part of the planning submission for the site.

6.1 Geotechnical Considerations and recommendations

As development of the site is proposed, it may be financially prudent to undertake a geotechnical investigation of the site at the same time as any environmental investigation to enable foundation recommendations to be proposed.

The potential for cohesive ground conditions and the presence of mature trees or proposed planting should be taken into consideration.

APPENDICES

Appendix 1 – Report Limitations and Conditions

General Limitations and Exceptions

This report was prepared solely for our Client for the stated purposes only and is not intended to be relied on by any other party or for any other use. No extended duty of care to any third party is implied or offered.

Geosphere Environmental Ltd does not purport to provide specialist legal advice.

The Executive Summary, Conclusions and Recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon, until considered within the context of the whole report.

Interpretations and recommendations contained within the report represent our professional opinions, which were arrived at in accordance with currently accepted industry practices at the time of reporting and based upon current legislation in force at that time.

Environmental and Geotechnical Reporting (including Phase 1, Phase 2 and Site Walkovers) Limitations and Exceptions

The comments given in this report and the options expressed herein, are based upon the readily available information collated for the report and an assessment based upon the current guidance which for Phase 1 / Phase 2 reports is primarily the Environment Agency's Land Contamination Risk Management (LCRM) report, 2021.

The report has been prepared in relation to the proposed end-use and should another end-use be intended, reassessment may be required.

No warranty is given as to the possibility of future changes in the condition of the site.

The opinions expressed cannot be absolute, due to the limitation of time and resources imposed by the agreed brief.

With regards to any aspect of land contamination referred to, this is limited to those aspects specifically stated and necessarily qualified. No liability shall be accepted for other aspects which may be the result of gradual or sudden pollution incidents, past or present land uses and the potential for associated contamination migration.

Any Desk Study Report / data has been produced largely from the information purchased from The Landmark Information Group. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. The information purchased has been assumed to be correct and free from errors. However, there is the possibility that some data may be missing from the report including (but not limited to) unrecorded land uses both onsite and offsite or unrecorded pollution events. No attempt has been made to verify the information.

The accuracy of any map extracts cannot be guaranteed. It is possible that different conditions existed onsite, between and subsequent to the various map surveys provided.

Any site walkover undertaken is a snapshot of the site recording the visually evident conditions at the time of the walkover in the areas readily accessible. It is possible that after the walkover, the site was altered (for example by fly-tipping or groundworks) or before the walkover, the site conditions changed removing evidence of potentially contaminative features (such as oil tanks removed).

Any intrusive works only cover a tiny proportion of the site. Where exploratory holes are positioned by Geosphere Environmental Ltd, they are located to give as good a coverage of the site as possible and to target features / proposed land use where applicable, whilst allowing for areas that cannot be accessed, Client requested locations and other site / time / budget constraints. Whilst assumptions may have been drawn between exploratory holes on the ground conditions and / or extent or otherwise of any contamination, this is for guidance only and no liability can be accepted on its accuracy.

Foundation design is outside of the remit of Geosphere Environmental Ltd unless specifically stated and it is recommended that the services of foundation design specialists are sought as required. Any foundation appraisal contained within the report is limited to foundation optioneering.

Any conceptual model is based upon the information available at the time of conducting this assessment and is an interpretive assessment of the conditions at the site. Redevelopment and / or further investigation of the site may reveal additional information and therefore alter the conceptual model and the report conclusions.

Any infiltration testing results are considered to be representative of the ground conditions at the locations tested and at the time of testing. As well as lateral variation in ground conditions, seasonal changes in ground water level may affect the results.

Any post-fieldwork monitoring (including ground gas / groundwater) is a snapshot of the conditions at the time of monitoring.

Appendix 2 – References

- R.1. Nitrates Directive (91/676/EEC) 1991.
- R.2. Land Contamination Risk Management (LCRM), Environment Agency, 2021.
- R.3. The Environmental Protection Act, Part IIA, Section 78, 1990.
- R.4. Environment Act 1995, Section 57, DoE 1995.
- R.5. CLR 4, 'Sampling strategies for contaminated land', DoE 1994.
- R.6. British Standards Institute: BS 10175:2011+A2:2017 'Code of practice for the investigation of potentially contaminated sites', 2017.
- R.7. British Standards Institute: BS 5930:2015+A1:2020 'Code of practice for site investigations', 2020.
- R.8. Reference: Asbestos: The Survey Guide, HSG 264, 2nd Edition, 2012.
- R.9. UK Health Security Agency (UKHSA) and British Geological Survey, 'Indicative Atlas of Radon in Great Britain', 2022.

Appendix 3 – Envirocheck Data Search Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

313993346_1_1

Customer Reference:

7277,EC,AR,DS

National Grid Reference:

536580, 218830

Slice:

A

Site Area (Ha):

7.3

Search Buffer (m):

1000

Site Details:

Puller Memorial School

High Cross

Ware

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			2	7
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3	Yes			
Pollution Incidents to Controlled Waters	pg 3				1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 4				1 (*21)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 9	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 9	2	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones	pg 10	1		1	
Extreme Flooding from Rivers or Sea without Defences	pg 10		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 10		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10	1	14	16	48

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 20	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 20		1		5
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 21	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 21	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 25				1
Non Coal Mining Areas of Great Britain	pg 25	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 25	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 25	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 27		7	2	5
Fuel Station Entries	pg 28		1		
Points of Interest - Commercial Services	pg 28		3		
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 28		1	2	1
Points of Interest - Public Infrastructure	pg 28		2		3
Points of Interest - Recreational and Environmental	pg 29		1		
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 30			3	1
Areas of Adopted Green Belt	pg 30				1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 30	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	0	1	536580 218826
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	245	1	536400 219300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	278	1	536250 219200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	371	1	536150 219200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	483	1	536000 218500
1	Discharge Consents Operator: Mr M L Abul Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB Location: Happy Eater 3622 High Road High Cross Ware Sg11 1bt Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CNTM.1581 Permit Version: 1 Effective Date: 23rd September 1994 Issued Date: 23rd September 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Ofbarwick Tributary Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Manually corrected supplier location	A7NE (SW)	263	2	536200 218595
2	Discharge Consents Operator: B.C. Oakley Property Type: MAKING OF MOTOR VEHICLES+TRAILERS/CARS/CARAVANS Location: Coachworks, Canmbridge Road, High Cross, Near Ware, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1590 Permit Version: 1 Effective Date: 1st May 1987 Issued Date: 1st May 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Boulder Clay Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A8SW (SW)	398	2	536300 218300
3	Discharge Consents Operator: Happy Eater Ltd, 16/18 Upper High Street, Epsom, S Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB Location: Restaurant & House, High Road, High Cross, Ware, Herts Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctrc.2056 Permit Version: 1 Effective Date: 11th November 1983 Issued Date: 11th November 1983 Revocation Date: 22nd September 1994 Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Barwick Trib (West) Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18SE (N)	545	2	536680 219590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Mr Derek Reynolds Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Properties 1-4 Great Cambridge Road High Cross Hertfordshire Sg11 1bt Authority: Environment Agency, Thames Region Catchment Area: Rib Reference: Npswqd006051 Permit Version: 1 Effective Date: 16th January 2009 Issued Date: 16th January 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ditch Ldng To Barwick Trib Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	684	2	536734 219719
5	<p>Discharge Consents</p> <p>Operator: Mr David Warburton Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Great Mead Standon Green End High Cross Hertfordshire England Sg11 1bp Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Npswqd001843 Permit Version: 1 Effective Date: 22nd May 2008 Issued Date: 22nd May 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	756	2	536375 219822
6	<p>Discharge Consents</p> <p>Operator: Mr & Mrs B Rudgewick Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Barn, Standon Green End Farm, Standon Green End, High Cross, Ware, Hertfor Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.3062 Permit Version: 1 Effective Date: 26th January 1989 Issued Date: 26th January 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Boulder Clay Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	830	2	536400 219900
7	<p>Discharge Consents</p> <p>Operator: Mr Castiglione Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Knoll Farm, Standon Green End, High Cross, Near Ware, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Cntw.1181 Permit Version: 1 Effective Date: 22nd July 1991 Issued Date: 22nd July 1991 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Boulder Clay Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	848	2	536300 219900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Discharge Consents</p> <p>Operator: Mrs Catherine Archer Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Bourne House Wadesmill Ware Hertfordshire Sg12 0tt Authority: Environment Agency, Thames Region Catchment Area: Rib Reference: Canm.1205 Permit Version: 1 Effective Date: 11th May 2007 Issued Date: 11th May 2007 Revocation Date: 11th May 2019 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: To Groundwater Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A2NE (SW)	857	2	535959 217971
8	<p>Discharge Consents</p> <p>Operator: Mr Mark Slater Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Oldfield Cambridge Road Wadesmill, Ware Hertfordshire Sg12 0tt Authority: Environment Agency, Thames Region Catchment Area: Lee-Source / Mimram Reference: Canm.1142 Permit Version: 1 Effective Date: 3rd October 2006 Issued Date: 22nd November 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: To Groundwater Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A2NE (SW)	874	2	535987 217932
9	<p>Prosecutions Relating to Controlled Waters</p> <p>Location: Raj Villa Restaurant, High Road, Ware, Hertfordshire, Sg11 1bt Prosecution Text: Allowing untreated sewage to enter a nearby stream Prosecution Act: Wra91 S85(1) Hearing Date: 23rd January 2007 Verdict: Guilty Fine: 4500 Cost: 2045 Positional Accuracy: Manually positioned to the road within the address or location</p>	A18SE (N)	575	2	536698 219616
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: H C Motors Ltd Location: High Road, High Cross, Sg11 1az Authority: East Hertfordshire District Council, Environmental Health Department Permit Reference: EP/200300029 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Not Supplied Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	137	3	536334 218601
	<p>Nearest Surface Water Feature</p>	A13SE (NE)	0	-	536634 218910
11	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: HIGH CROSS Authority: Environment Agency, Thames Region Pollutant: Agricultural: Unknown Note: Confirmed incident Incident Date: 1st February 1999 Incident Reference: THNE1999041860 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m</p>	A7NW (W)	652	2	535800 218700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Rib GQA Grade: River Quality B Reach: Standon - Lee Estimated Distance (km): 17.1 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A3SE (S)	952	2	536698 217645
12	Water Abstractions Operator: A R Smith & Sons Licence Number: 29/38/04/0006 Permit Version: Not Supplied Location: Home Farm, Youngsbury, WARE Authority: Environment Agency, Thames Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 23 Yearly Rate (m3): 45 Details: Woolwich & Reading Beds. Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	875	2	537500 218300
	Water Abstractions Operator: The Honourable C A Savile Licence Number: 29/38/04/0008s Permit Version: 101 Location: River Rib At Fabdens, Thundridge, Ware, Herts Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Febdens, Thundridge, Ware, Herts Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1364	2	537100 217300
	Water Abstractions Operator: The Honourable C A Savile Licence Number: 29/38/04/0008s Permit Version: 100 Location: River Rib At Fabdens, Thundridge, Ware, Herts Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5 Yearly Rate (m3): 1660 Details: Febdens, Thundridge, Ware, Herts Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 29th September 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1364	2	537100 217300
	Water Abstractions Operator: The Honourable C A Savile Licence Number: 29/38/04/0008g Permit Version: 100 Location: Well At Fabdens, Thundridge, Ware, Herts Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 1660 Details: Fabdens, Thundridge, Ware Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1398	2	537200 217300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 100 Location: Thundridge Pumping Station Point C Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1599	2	538000 217700
	<p>Water Abstractions</p> <p>Operator: Mr R Smith Licence Number: 29/38/04/0007 Permit Version: 100 Location: River Rib At Home Farm, Youngsbury, Ware, Herts Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 909 Details: Home Farm, Youngsbury, Ware, Herts Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(SE)	1621	2	537500 217200
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 104 Location: Thundridge Pumping Station Point C Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st November 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1640	2	538050 217700
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 103 Location: Thundridge Pumping Station Point C Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1640	2	538050 217700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: 29/38/04/0035 Permit Version: 102 Location: Thundridge Pumping Station Point C Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1640	2	538050 217700
	<p>Water Abstractions</p> <p>Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 101 Location: Thundridge Pumping Station Point C Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st January 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1640	2	538050 217700
	<p>Water Abstractions</p> <p>Operator: Thundridge Football & Cricket Licence Number: 29/38/04/0012 Permit Version: 100 Location: Borehole At Thundridge Sports Field, Thundridge, Ware, Herts Authority: Environment Agency, Thames Region Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 136 Details: Thundridge Sports Field, Thundridge, Herts Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th March 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(SW)	1753	2	535500 217200
	<p>Water Abstractions</p> <p>Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 100 Location: Thundridge Pumping Station Point A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 11819 Yearly Rate (m3): 4062600 Details: Chalk (Undifferentiated) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A5SE (SE)	1797	2	538100 217500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 104 Location: Thundridge Pumping Station Point A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st November 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1801	2	538120 217520
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 103 Location: Thundridge Pumping Station Point A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1801	2	538120 217520
	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: 29/38/04/0035 Permit Version: 102 Location: Thundridge Pumping Station Point A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1801	2	538120 217520
	<p>Water Abstractions</p> <p>Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 101 Location: Thundridge Pumping Station Point A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st January 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A5SE (SE)	1801	2	538120 217520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 104 Location: Thuntridge Pumping Station Point B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st November 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1855	2	538110 217420
	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: 29/38/04/0035 Permit Version: 103 Location: Thuntridge Pumping Station Point B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1855	2	538110 217420
	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: 29/38/04/0035 Permit Version: 102 Location: Thuntridge Pumping Station Point B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1855	2	538110 217420
	<p>Water Abstractions</p> <p>Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 101 Location: Thuntridge Pumping Station Point B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Specified Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st January 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SE)	1855	2	538110 217420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 29/38/04/0035 Permit Version: 100 Location: Thundridge Pumping Station Point B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1860	2	538100 217400
	Water Abstractions Operator: Morrison Farms Ltd Licence Number: 29/38/04/0046 Permit Version: 100 Location: River Rib At Great Barwick Farm Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 682 Yearly Rate (m3): 18184 Details: Great Barwick Farm Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 16th March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	538600 219500
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: <40% Superficial: <90% Patchiness: Superficial 3-10m Thickness: Superficial Low Recharge:	A13SW (N)	0	4	536580 219000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: Superficial 3-10m Thickness: Superficial Low Recharge:	A8NW (SW)	0	4	536580 218826
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13SW (N)	0	4	536580 219000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A8NW (SW)	0	4	536580 218826
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A8NW (SW)	0	4	536580 218826
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A8NW (SW)	0	4	536580 218826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A8NW (SW)	0	2	536580 218826
14	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A8SW (SW)	276	2	536366 218402
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	208	2	536670 219235
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	208	2	536670 219235
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (NE)	0	5	536634 218910
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	21	5	536543 218617
17	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	62	5	536503 218573
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	67	5	536501 218569
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (NW)	118	5	536375 218916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 541.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	126	5	536804 218557
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A13NW (N)	162	5	536570 219225
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (N)	169	5	536706 219159
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (NE)	177	5	536875 218983
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 232.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (NW)	209	5	536304 219153
25	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	212	5	536240 218654
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 460.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A13NE (N)	215	5	536666 219245
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	217	5	536953 218924
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	219	5	536228 218670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13NW (N)	224	5	536565 219290
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13NW (N)	278	5	536436 219347
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	286	5	536174 218603
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	289	5	536420 219354
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	299	5	536426 219366
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	303	5	536429 219371
35	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 37.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	310	5	536153 218577
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (NE)	311	5	537001 219038
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (NE)	311	5	537001 219038

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	312	5	536432 219381
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 206.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	312	5	536432 219381
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (NE)	368	5	537017 219111
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 355.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	368	5	537018 218443
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (NE)	380	5	537029 219116
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	431	5	537150 219012
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	486	5	536826 218135
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	487	5	536840 218137
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NW (S)	517	5	536506 218110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	518	5	536969 218169
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	533	5	536449 219607
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	536	5	537000 218170
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	540	5	536749 218062
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	542	5	536747 218059
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 437.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NW (SW)	558	5	535908 218522
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 187.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (N)	570	5	536800 219574
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 397.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (NE)	574	5	537164 219254
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NW (W)	621	5	535831 218680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 526.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7NW (W)	625	5	535827 218688
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (N)	627	5	536715 219665
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (N)	635	5	536717 219673
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 515.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	642	5	535944 218280
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A7SE (SW)	642	5	535944 218280
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	646	5	536634 217953
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	648	5	536632 217950
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (N)	649	5	536719 219687
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (NE)	652	5	537079 219461

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A19SW (NE)	661	5	536984 219568
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	662	5	536620 217937
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	666	5	536617 217933
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 187.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NW (S)	674	5	536411 217966
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A4NW (SE)	674	5	537127 218096
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (N)	707	5	536729 219745
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	708	5	536141 219686
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SE (SE)	712	5	537312 218276
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A4NW (SE)	718	5	537239 218150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	728	5	537056 219595
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A19SW (NE)	728	5	537056 219595
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A19SW (NE)	746	5	537076 219602
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A19SW (NE)	792	5	537124 219620
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A2NW (SW)	793	5	535901 218101
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barwick Tributary Catchment Name: Thames Primacy: 1	A19SW (NE)	826	5	537160 219631
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 359.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (NE)	840	5	537468 219291
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3SW (S)	852	5	536317 217805
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3SW (S)	852	5	536317 217805

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3SW (S)	853	5	536325 217801
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	871	5	537174 219681
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3SW (S)	893	5	536437 217737
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SE (NE)	901	5	537305 219576
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SE (NE)	910	5	537311 219584
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Bourne Catchment Name: Thames Primacy: 1	A11SE (W)	912	5	535570 219038
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (W)	912	5	535570 219038
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 296.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (W)	919	5	535563 219024
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3SW (S)	919	5	536495 217697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	930	5	537139 219788
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	959	5	535762 219690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	6	536580 218826
	Local Authority Landfill Coverage Name: East Hertfordshire District Council - Has supplied landfill data		0	3	536580 218826
94	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A13SW (N)	29	-	536596 219024
95	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A18SE (N)	568	-	536732 219597
96	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A4NW (SE)	782	-	537104 217942
97	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A4NW (SE)	875	-	537189 217887
98	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A18NW (N)	911	-	536312 219967
99	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A17NE (N)	965	-	536116 219961

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A8NW (SW)	0	1	536580 218826
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (SW)	0	1	536580 218826
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	201	1	536277 219176
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (NW)	268	1	536259 219249
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	271	1	536453 219343
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (W)	435	1	535996 218661
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (W)	455	1	535996 218661

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A3NE (S)	473	1	536773 218134
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	482	1	536000 219000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (NW)	486	1	536050 219260
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (NW)	496	1	535989 219081
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A3NW (S)	523	1	536491 218108
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NW (W)	594	1	535861 218535

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A7NW (W)	610	1	535852 218558
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A3NW (S)	624	1	536496 218000
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A7SW (SW)	686	1	535899 218266
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A12SW (W)	698	1	535765 218910
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A12SW (W)	831	1	535648 219000
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 40 - 60 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A3SW (S)	859	1	536554 217747

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NE (N)	930	1	536600 220000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NW (N)	983	1	536360 220049
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A2NW (SW)	984	1	535733 218000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3SW (S)	988	1	536507 217624
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NE (N)	992	1	536689 220050
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A4SW (SE)	994	1	537139 217717

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	BGS Recorded Mineral Sites Site Name: Highcross Hill Chalk Pit Location: Wadesmill, Ware, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166909 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	937	1	536025 217836
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities Easting: 536050 Northing: 217830 Distance: 930 Quadrant Reference: A2 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till and morainic drift Detail:	A2NE (SW)	930	7	536050 217830
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	536588 218841
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	134	1	536808 218548
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	201	1	536277 219176
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	1	536580 218826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Radon Potential - Radon Protection Measures</p> <p>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions</p> <p>Source: British Geological Survey, National Geoscience Information Service</p>	A8NW (SW)	0	1	536580 218826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	<p>Contemporary Trade Directory Entries</p> <p>Name: Warren Furniture & Joinery Location: Sutes Farm, High Road, High Cross, Ware, SG11 1BE Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (N)	68	-	536628 218958
101	<p>Contemporary Trade Directory Entries</p> <p>Name: High Cross Joinery Location: Sutes Farm, High Road, High Cross, Ware, Hertfordshire, SG11 1BE Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (N)	78	-	536640 218996
102	<p>Contemporary Trade Directory Entries</p> <p>Name: Jet Service Station Location: High Road, High Cross, Ware, Hertfordshire, SG11 1AZ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	119	-	536345 218619
102	<p>Contemporary Trade Directory Entries</p> <p>Name: Jet Petrol Station Location: High Road, High Cross, Ware, Hertfordshire, SG11 1AZ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	136	-	536334 218604
103	<p>Contemporary Trade Directory Entries</p> <p>Name: Mobilemo Auto Repairs Location: 39, North Drive, High Cross, Ware, Hertfordshire, SG11 1AR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	206	-	536489 218428
103	<p>Contemporary Trade Directory Entries</p> <p>Name: S P Saban Ltd Location: 43, North Drive, High Cross, Ware, Hertfordshire, SG11 1AR Classification: Fascias and Soffits Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	213	-	536505 218418
104	<p>Contemporary Trade Directory Entries</p> <p>Name: Fabrite Fixing Ltd Location: 6, Marshalls Lane, High Cross, Ware, Hertfordshire, SG11 1AH Classification: Staircase, Balustrade & Handrail Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	235	-	536230 218593
105	<p>Contemporary Trade Directory Entries</p> <p>Name: Rhodes Motor Co Location: Balhams Hall, High Road, High Cross, Ware, Hertfordshire, SG11 1AF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	253	-	536257 218511
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Oakley Location: High Road, High Cross, Ware, Hertfordshire, SG11 1AD Classification: Horse Boxes & Transporting Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (SW)	328	-	536323 218369
107	<p>Contemporary Trade Directory Entries</p> <p>Name: A10 Auto World Ltd Location: Knoll View, High Cross, Ware, Hertfordshire, SG11 1BS Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	679	-	536701 219724
108	<p>Contemporary Trade Directory Entries</p> <p>Name: Euro Commercials Location: High Rd, High Cross, Ware, Hertfordshire, SG11 1BT Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A18SE (N)	730	-	536761 219758
109	<p>Contemporary Trade Directory Entries</p> <p>Name: F Sadler & Son Location: The Coal Yard, Standon Green End, High Cross, SG11 1BP Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	767	-	536515 219843

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Contemporary Trade Directory Entries Name: A10 Auto World Ltd Location: Fairview, High Road, High Cross, Ware, Hertfordshire, SG11 1BT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	799	-	536756 219833
110	Contemporary Trade Directory Entries Name: Carsense Location: Fairview, High Road, High Cross, Ware, Hertfordshire, SG11 1BT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	799	-	536756 219833
111	Fuel Station Entries Name: Jordine High Cross Location: High Cross Road , High Cross , Ware, Hertfordshire, SG11 1AZ Brand: Jet Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A8NW (SW)	137	-	536334 218601
112	Points of Interest - Commercial Services Name: Jordine High Cross Location: High Cross Road, High Cross, Ware, SG11 1AZ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	125	8	536342 218612
112	Points of Interest - Commercial Services Name: H C Motors Ltd Location: High Road, High Cross, Ware, SG11 1AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	137	8	536334 218601
112	Points of Interest - Commercial Services Name: H C Motors Ltd Location: High Road, High Cross, Ware, SG11 1AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	137	8	536334 218601
113	Points of Interest - Manufacturing and Production Name: C C A Parkins & Son Location: Sutes Farm, High Road, High Cross, SG11 1BE Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13SE (N)	68	8	536628 218957
114	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	340	8	536312 218361
114	Points of Interest - Manufacturing and Production Name: Works Location: SG11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	340	8	536311 218362
115	Points of Interest - Manufacturing and Production Name: A B Spackman Location: Coltsfoot, Standon Green End, High Cross, Ware, SG11 1BW Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A17NE (NW)	999	8	536043 219965
116	Points of Interest - Public Infrastructure Name: Jet Service Station Location: High Road, High Cross, SG11 1AZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (SW)	138	8	536333 218601
116	Points of Interest - Public Infrastructure Name: H C Motors Ltd Location: High Road, High Cross, Ware, SG11 1AZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (SW)	138	8	536333 218601

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Points of Interest - Public Infrastructure Name: Weirs Location: SG11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (W)	597	8	535854 218669
117	Points of Interest - Public Infrastructure Name: Weirs Location: SG11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (W)	606	8	535845 218670
118	Points of Interest - Public Infrastructure Name: Airstrip Location: SG12 Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to an adjacent address or location	A9NE (E)	832	8	537534 218590
119	Points of Interest - Recreational and Environmental Name: Play Area Location: SG11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	250	8	536321 218459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	Ancient Woodland Name: Not Supplied Reference: 1414231 Area(m ²): 39202.93 Type: Ancient and Semi-Natural Woodland	A14SW (NE)	328	9	537018 219045
121	Ancient Woodland Name: Sutes Wood/Ash Plantation Reference: 1116221 Area(m ²): 35758.4 Type: Plantation on Ancient Woodland	A9NW (E)	333	9	537043 218686
122	Ancient Woodland Name: Sutes Wood/Ash Plantation Reference: 1116221 Area(m ²): 76175.63 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	375	9	537088 218589
123	Ancient Woodland Name: Round Wood Reference: 1116223 Area(m ²): 22512.21 Type: Ancient and Semi-Natural Woodland	A9SE (E)	894	9	537566 218463
124	Areas of Adopted Green Belt Authority: East Hertfordshire District Council Plan Name: East Hertfordshire District Plan Status: Adopted Plan Date: 23rd October 2018	A7SE (SW)	642	10	535944 218279
125	Nitrate Vulnerable Zones Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A8NW (SW)	0	4	536580 218826

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices East Hertfordshire District Council - Environmental Health Department Environment Agency - Head Office	January 2013 June 2020	Annual Rolling Update Annually
Discharge Consents Environment Agency - Thames Region	April 2023	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	
Integrated Pollution Controls Environment Agency - Thames Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	January 2023 January 2023	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Local Authority Pollution Prevention and Controls East Hertfordshire District Council - Environmental Health Department	January 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements East Hertfordshire District Council - Environmental Health Department	January 2014	Variable
Nearest Surface Water Feature Ordnance Survey	May 2023	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	April 2023 April 2023	Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	April 2023	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually

Agency & Hydrological	Version	Update Cycle
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	April 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	March 2023	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2023 January 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2023 January 2023	Quarterly Quarterly
Local Authority Landfill Coverage East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit	February 2003 February 2003	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit	October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Thames Region - North East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - North East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - North East Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Hertfordshire County Council - Spatial Planning and Economy Unit East Hertfordshire District Council	February 2016 May 2023	Variable Variable
Planning Hazardous Substance Consents East Hertfordshire District Council Hertfordshire County Council - Spatial Planning and Economy Unit	April 2015 February 2016	Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	June 2023	Quarterly
Points of Interest - Education and Health PointX	June 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2023	Quarterly
Points of Interest - Public Infrastructure PointX	June 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2023	Bi-Annually
Areas of Adopted Green Belt East Hertfordshire District Council	July 2022	Quarterly
Areas of Unadopted Green Belt East Hertfordshire District Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty Natural England	April 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	March 2023	Bi-Annually
Marine Nature Reserves Natural England	April 2023	Bi-Annually
National Nature Reserves Natural England	February 2023	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural England	March 2023	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2023	Bi-Annually
Special Areas of Conservation Natural England	April 2023	Bi-Annually
Special Protection Areas Natural England	April 2023	Bi-Annually

A selection of organisations who provide data within this report




Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	East Hertfordshire District Council - Environmental Health Department Wallfields, Pegs Lane, Hertford, Hertfordshire, SG13 8EQ	Telephone: 01992 531491 Website: www.eastherts.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Hertfordshire County Council - Spatial Planning and Economy Unit County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556015 Email: spatialplanning@hertfordshire.gov.uk Website: www.hertsdirect.org
7	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	East Hertfordshire District Council Wallfields, Pegs Lane, Hertford, Hertfordshire, SG13 8EQ	Telephone: 01279 655261 Fax: 01992 552280 Website: www.eastherts.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk







Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Geology 1:50,000 Maps Legends




Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian
	GLLMP	Glaciolacustrine Deposits, Mid Pleistocene	Clay and Silt	Not Supplied - Cromerian
	KGCA	Kesgrave Catchment Subgroup	Sand and Gravel	Not Supplied - Pleistocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Not Supplied - Ypresian
	LMBE	Lambeth Group	Clay, Silt and Sand	Not Supplied - Thanetian
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian

Geology 1:50,000 Maps

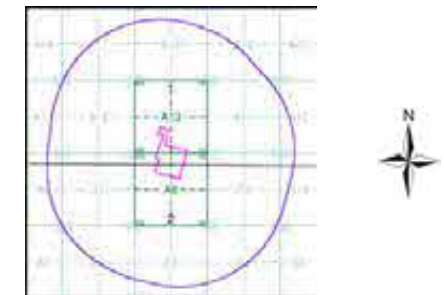
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1	Map ID:	2
Map Sheet No:	221	Map Sheet No:	239
Map Name:	Hitchin	Map Name:	Hertford
Map Date:	1995	Map Date:	1923
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Available	Landslip:	Not Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

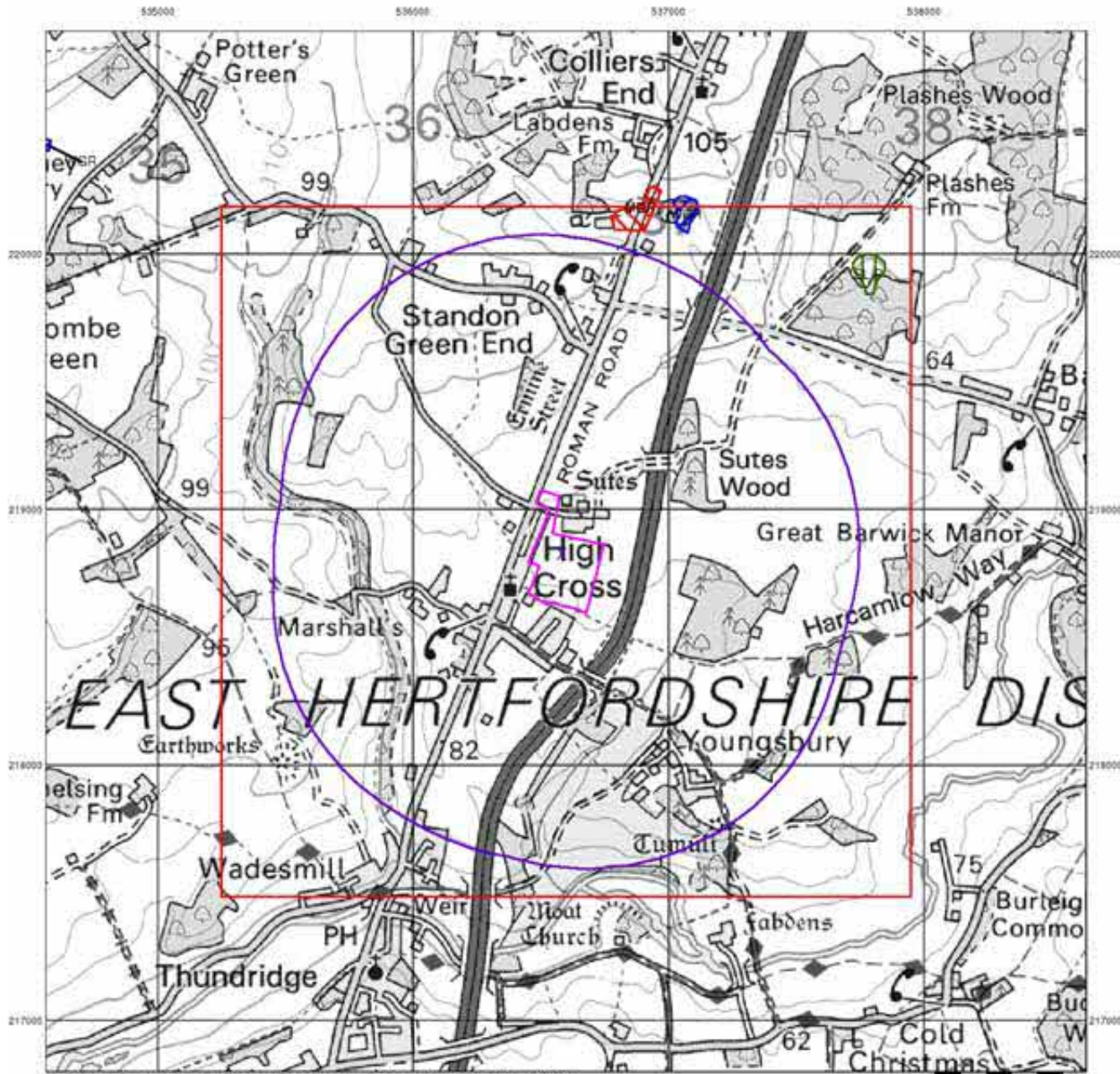


Order Details:

Order Number: 313993346_1_1
Customer Reference: 7277 EC,AR,DS
National Grid Reference: 536580, 218830
Slice: A
Site Area (Ha): 7.3
Search Buffer (m): 1000

Site Details:

Puller Memorial School, High Cross, Ware



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Artificial Ground and Landslip

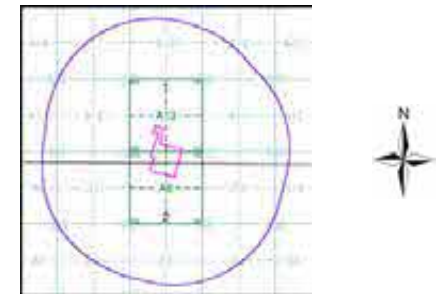
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A

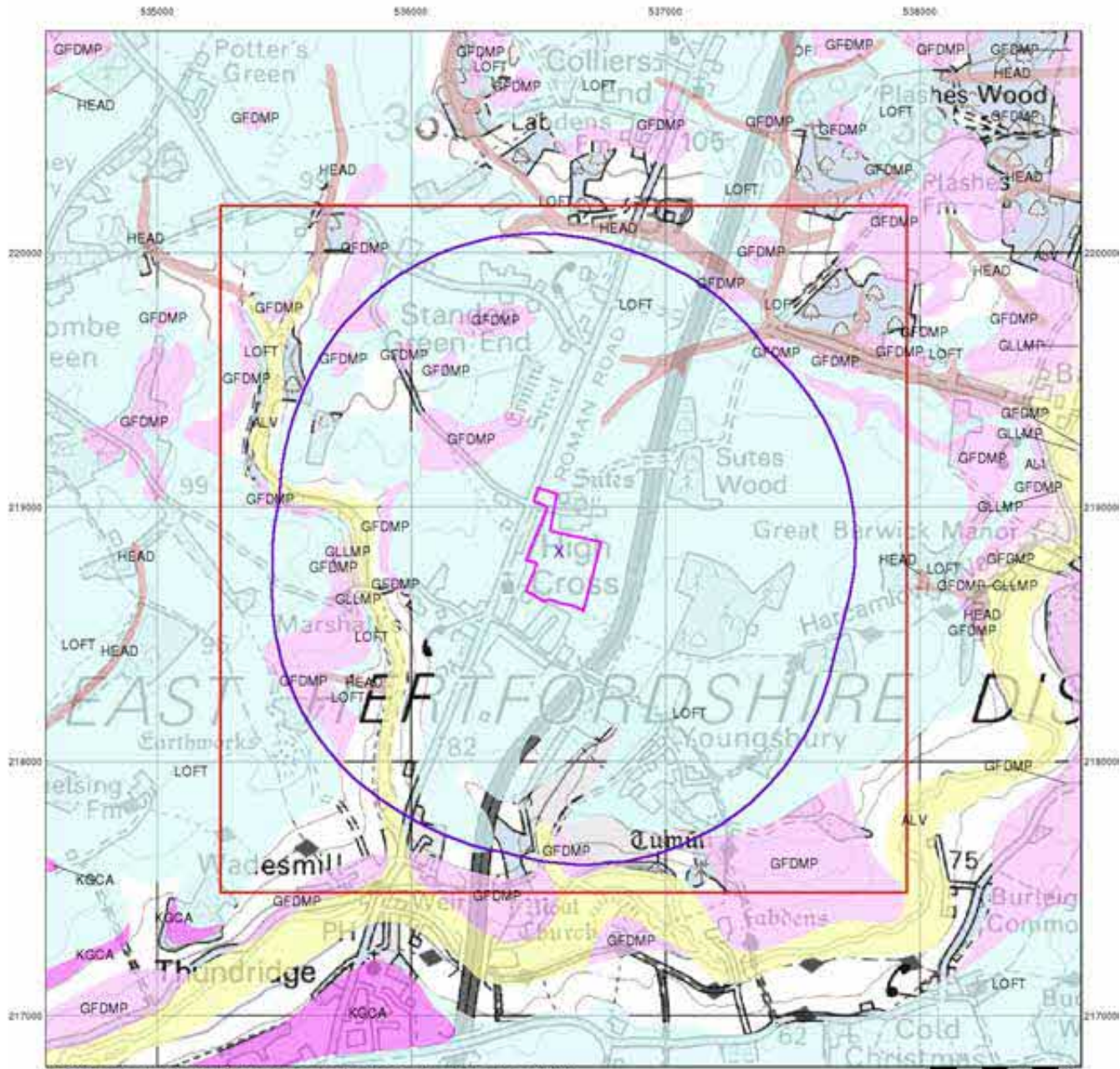


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Site:	A
Site Area (Ha):	7.3
Search Buffer (m):	1000

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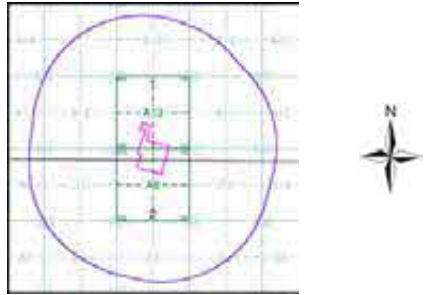
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

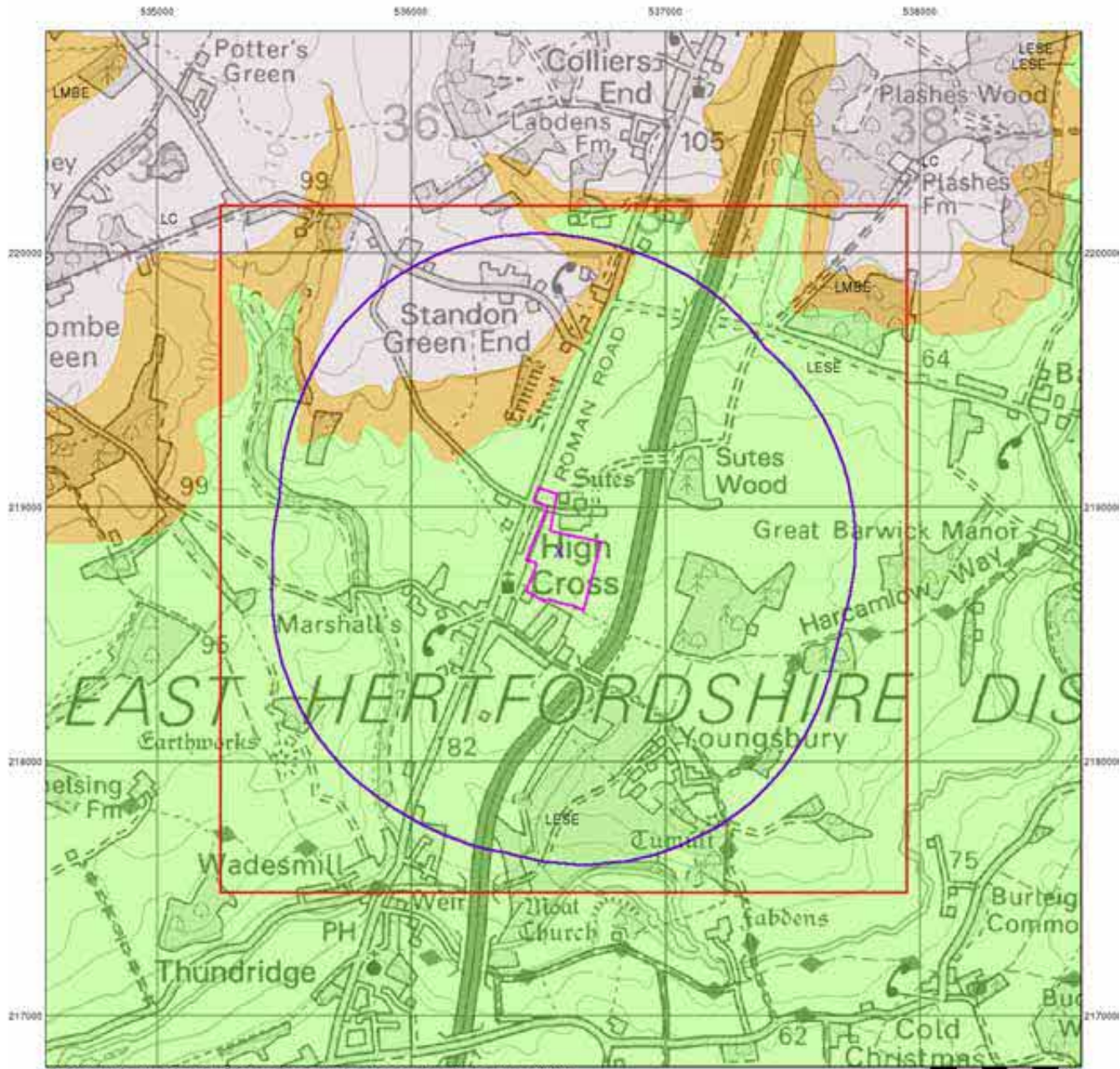
Order Number: 313993346_1_1
 Customer Reference: 7277 EC, AR, DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

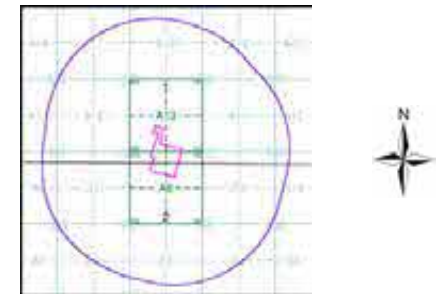
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

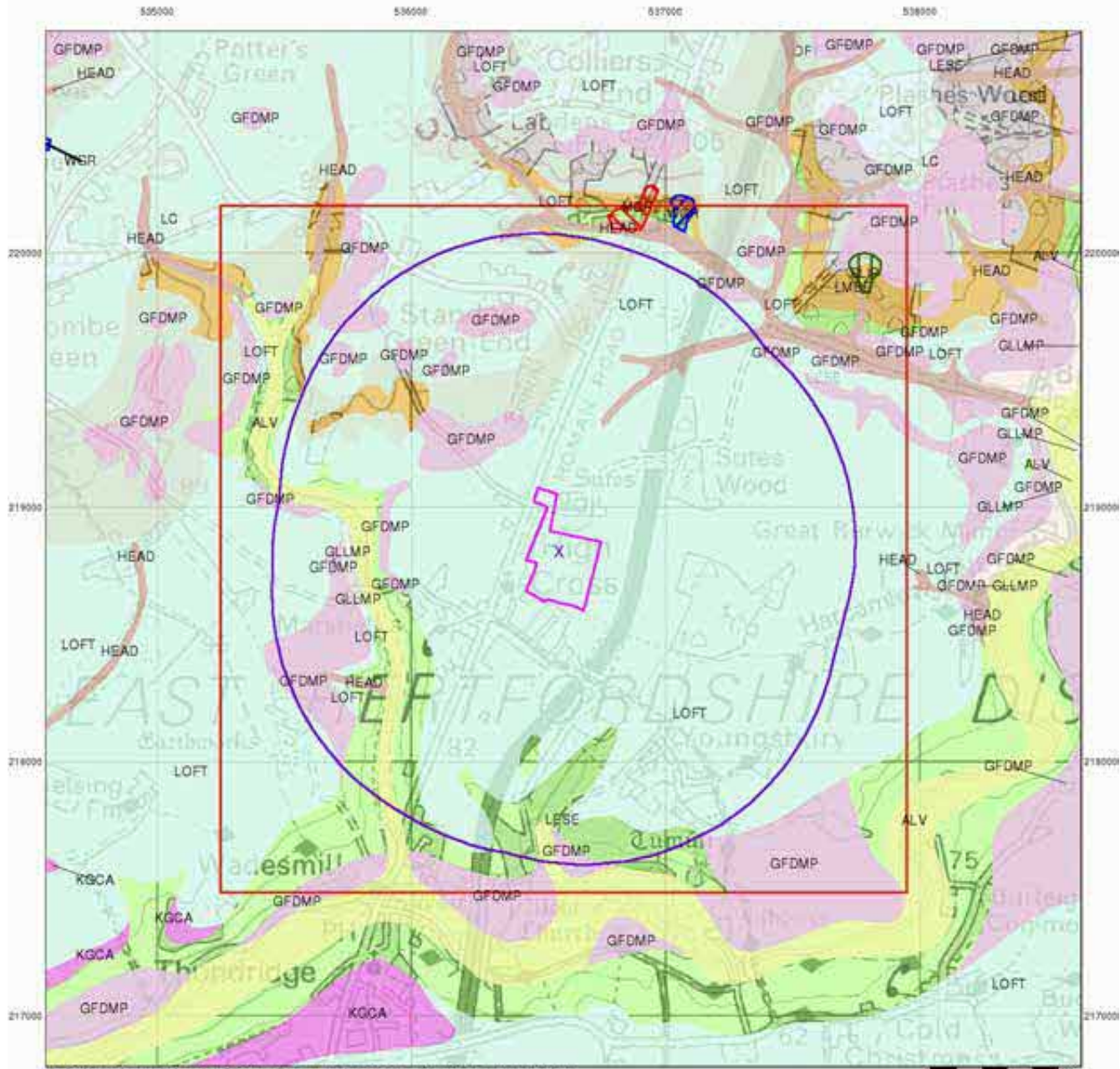


Order Details:

Order Number: 313993346_1_1
 Customer Reference: 7277.EC.AR.DS
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

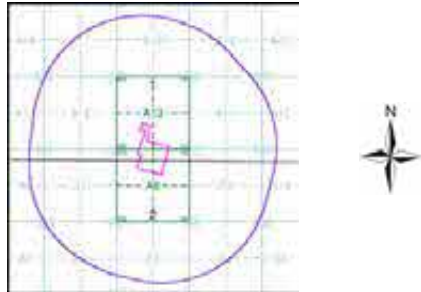
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
 Kingsley Dunham Centre
 Keyworth
 Nottingham
 NG12 5GG
 Telephone: 0115 936 3143
 Fax: 0115 936 3276
 email: enquiries@bgs.ac.uk
 website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 313993346_1_1
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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Miss H Painter, Geosphere Environmental Ltd, Brightwell Barns, Ipswich Road, Brightwell, Suffolk, IP10 0BJ

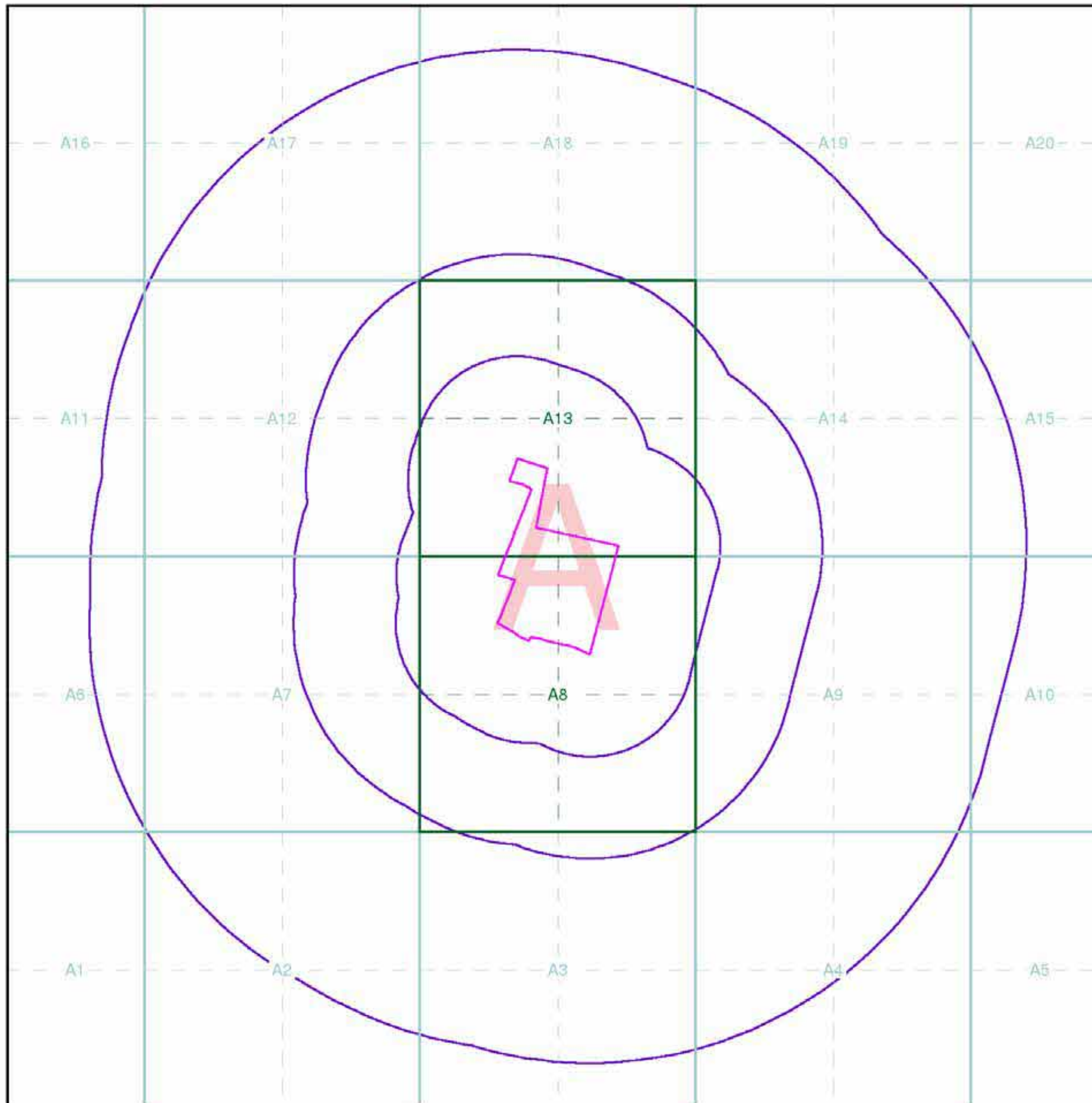
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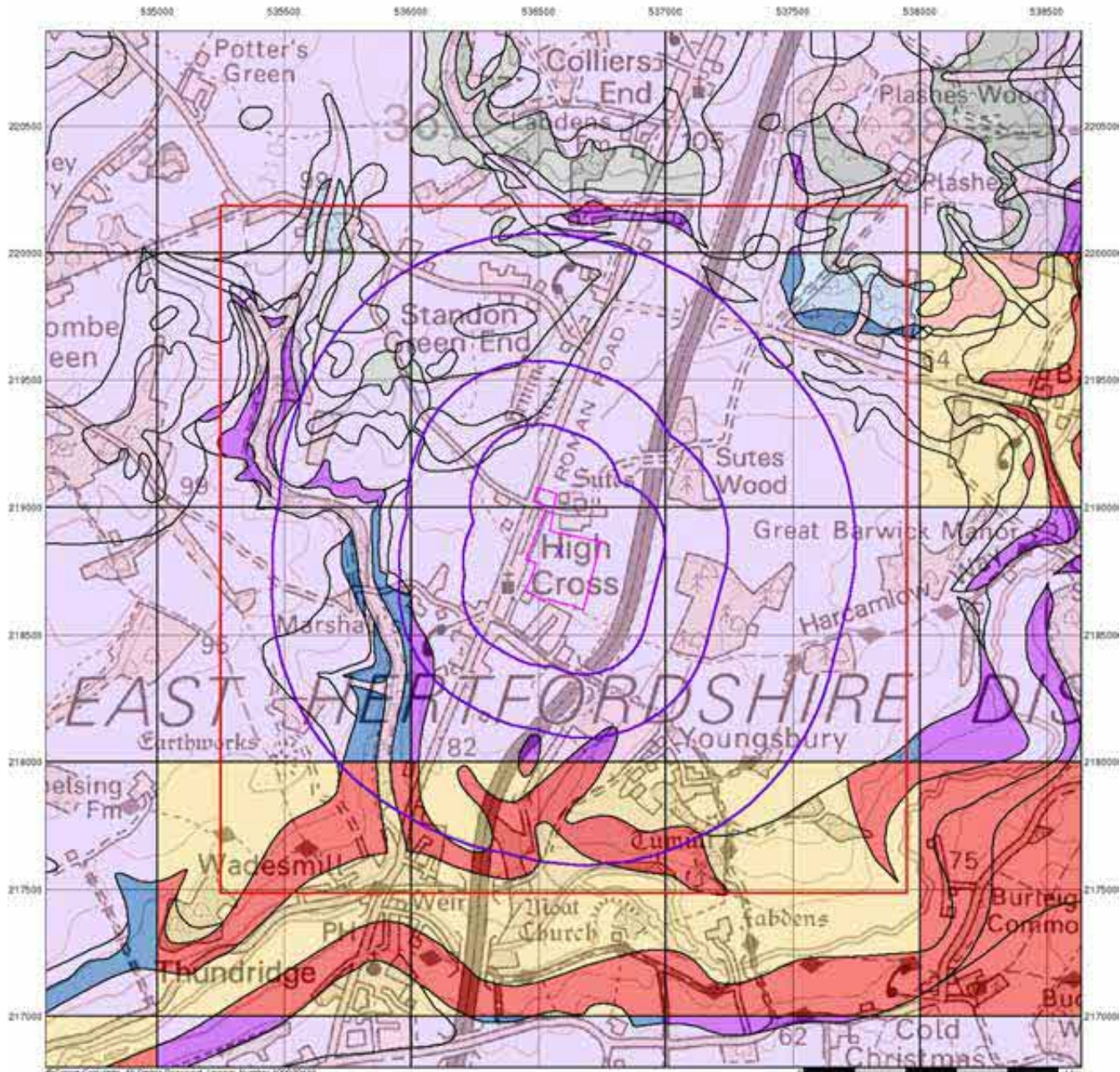
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Customer Ref: 7277_EC,AR,DS
National Grid Reference: 536590, 218790
Site Area (Ha): 7.3
Search Buffer (m): 1000

Site Details

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Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>





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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

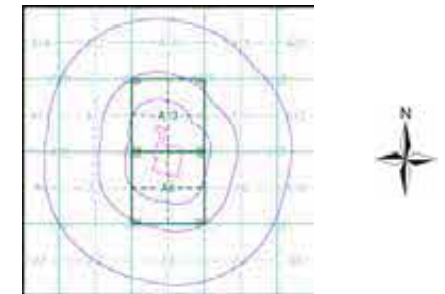
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

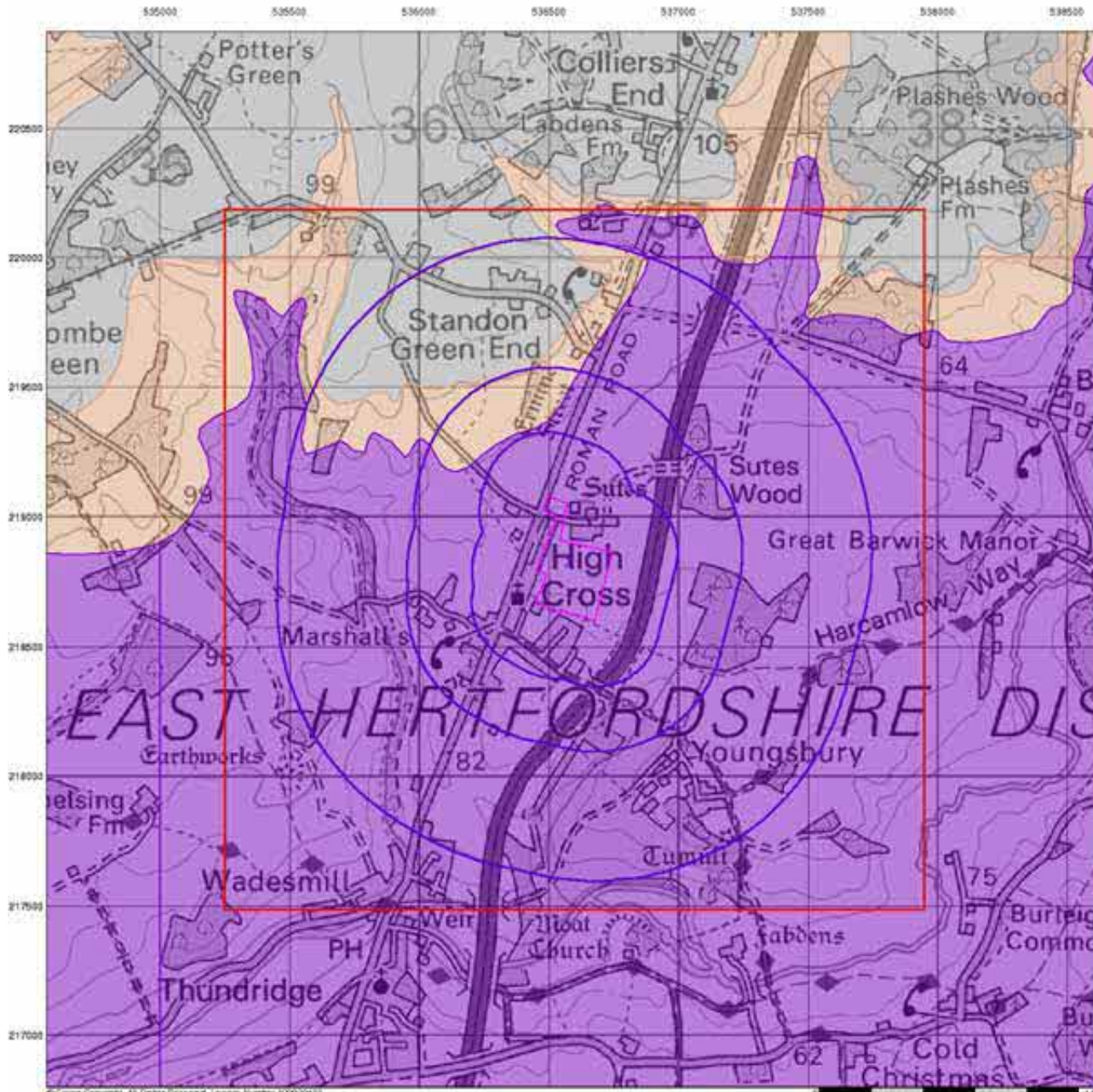
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 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

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Bedrock Aquifer Designation

General

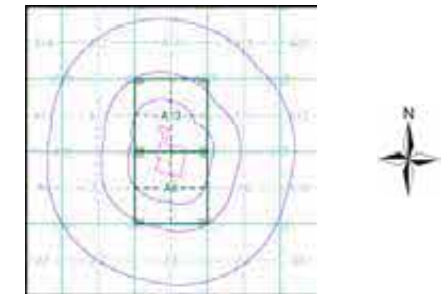
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

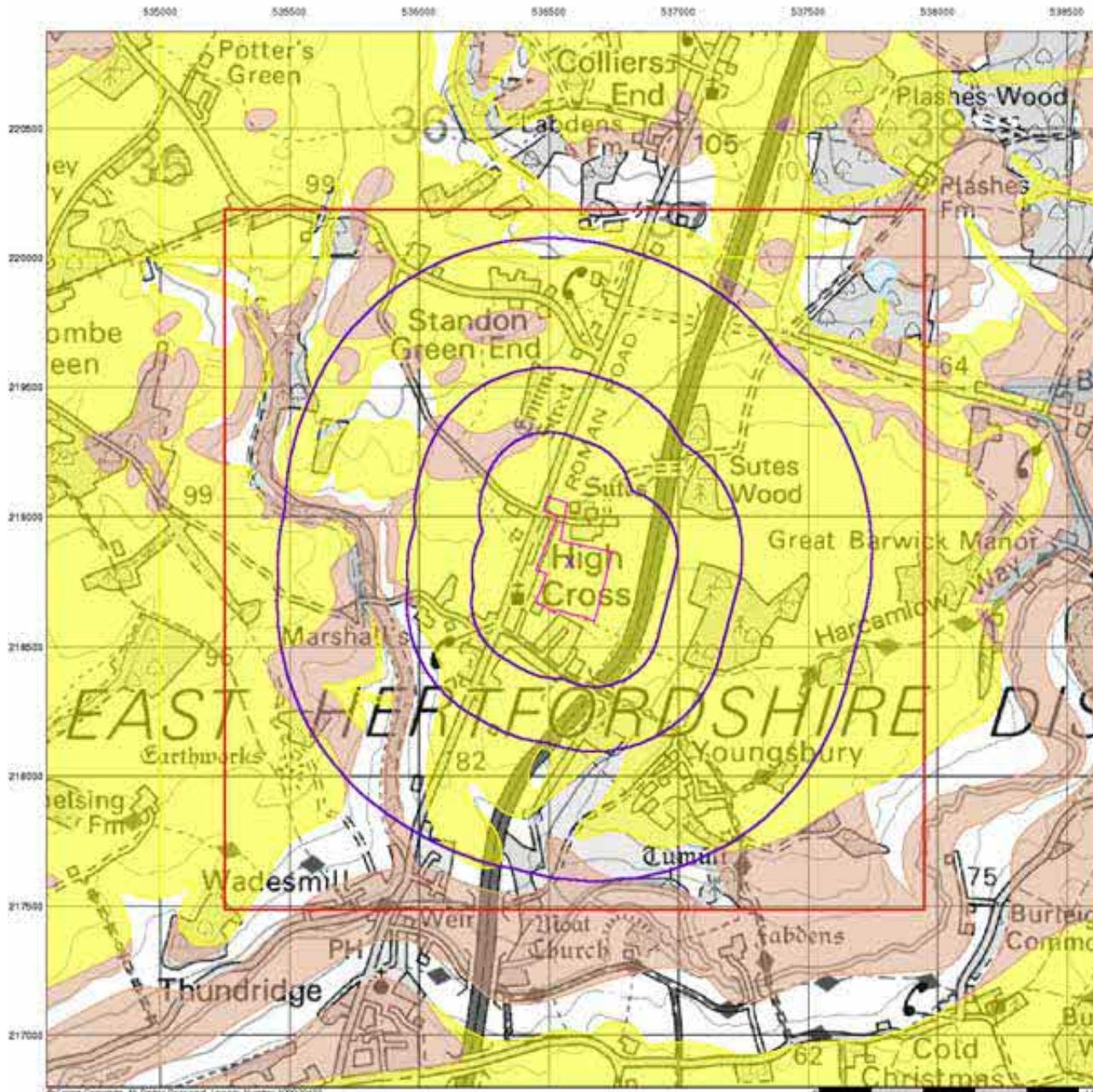


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 National Grid Reference: 536580, 218830
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Site Details

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Superficial Aquifer Designation

General

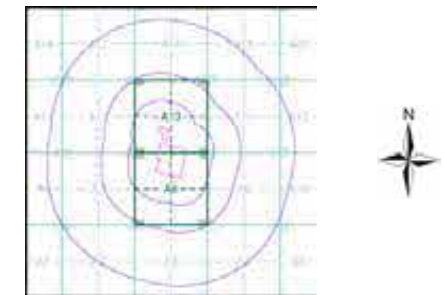
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

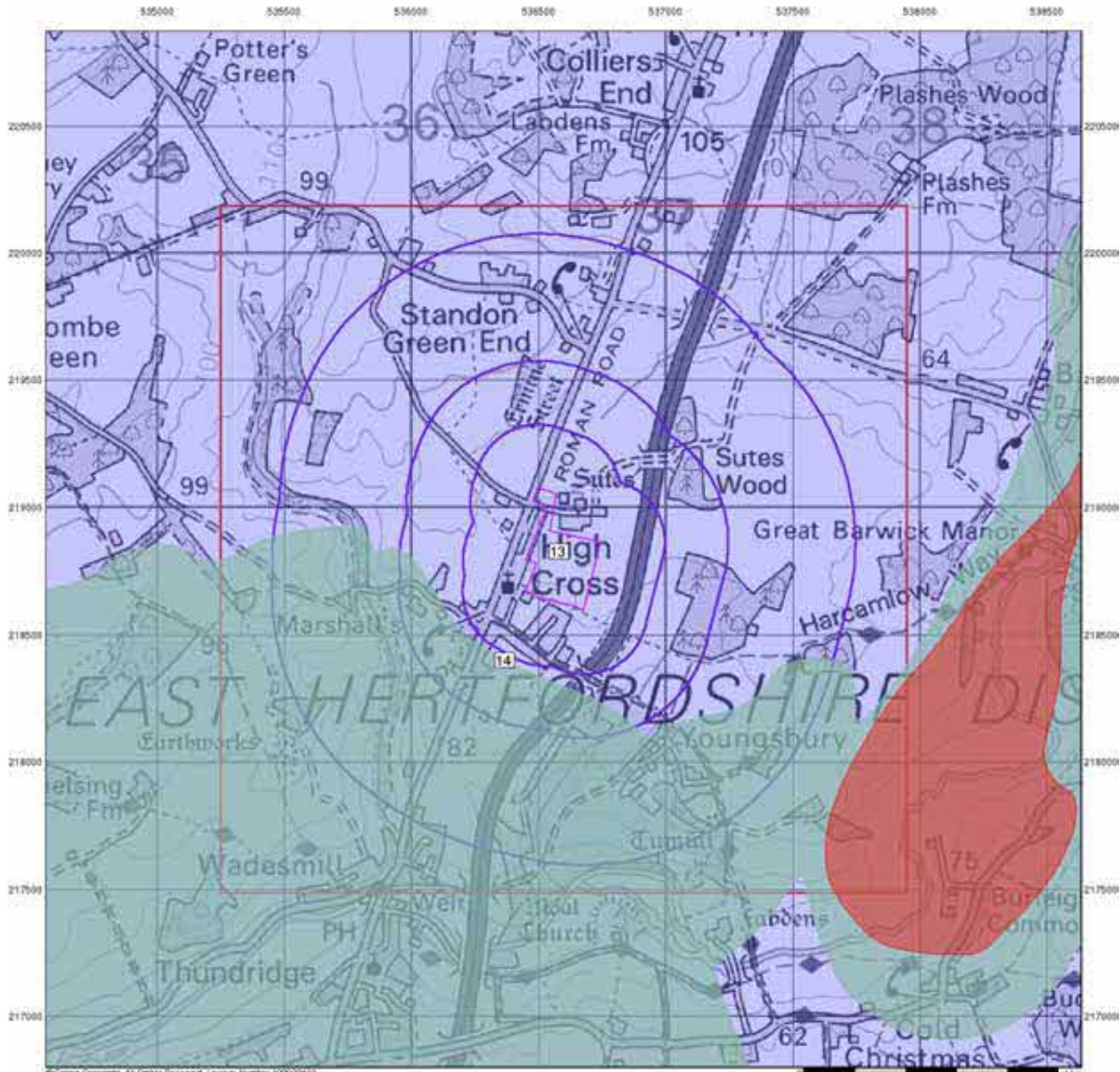


Order Details

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Source Protection Zones

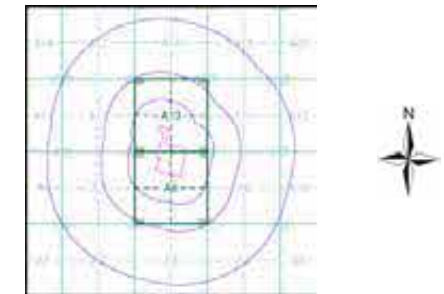
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special Interest (Zone 4)

Site Sensitivity Context Map - Slice A

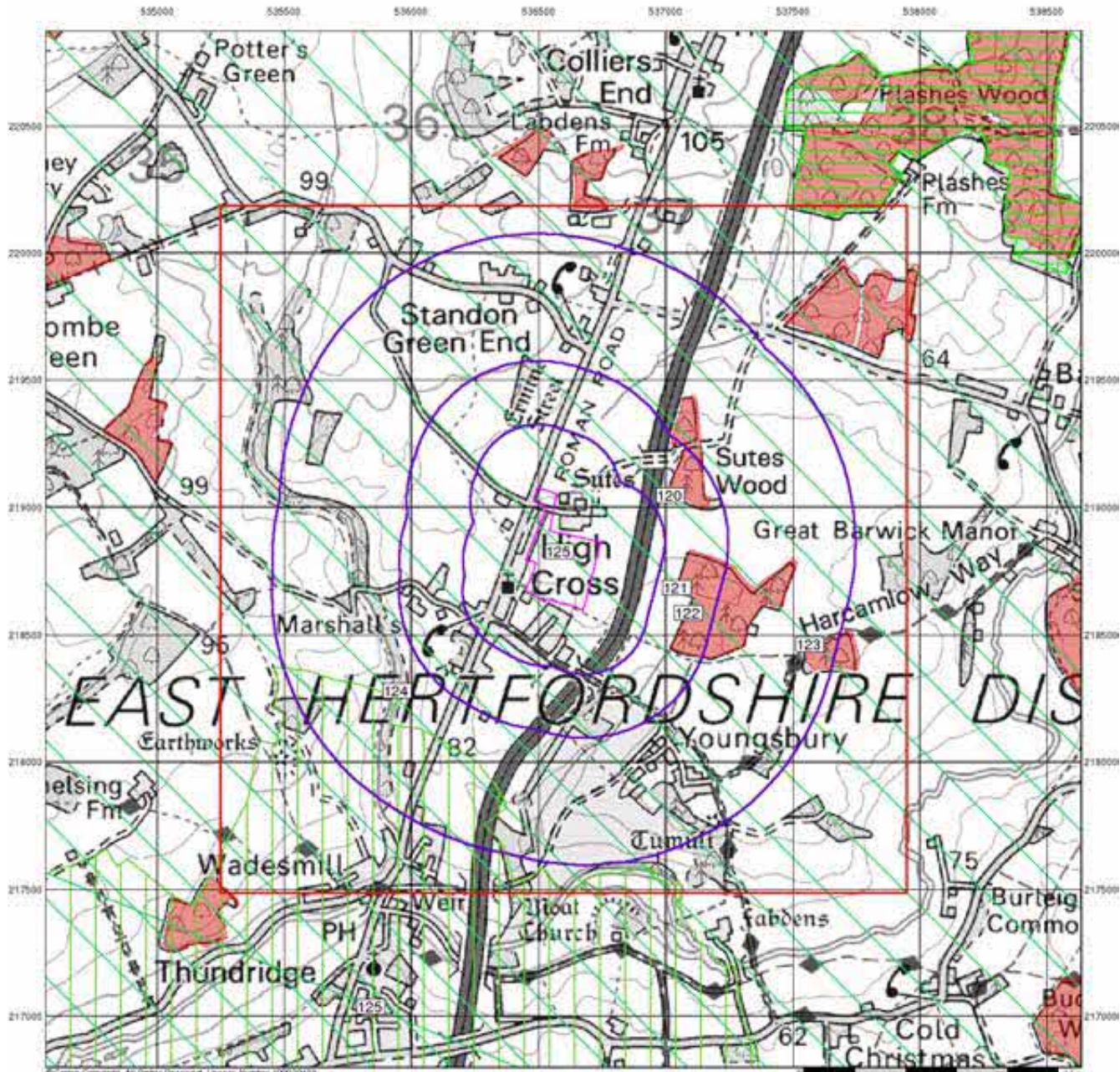


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Site Details

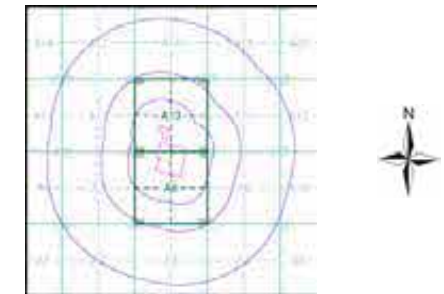
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Sensitive Land Uses

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Sensitive Land Uses**
- Ancient Woodland
 - Area of Adapted Green Belt
 - Area of Unadopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve
 - National Park
 - Nitrate Sensitive Area
 - Nitrate Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - World Heritage Sites

Site Sensitivity Context Map - Slice A

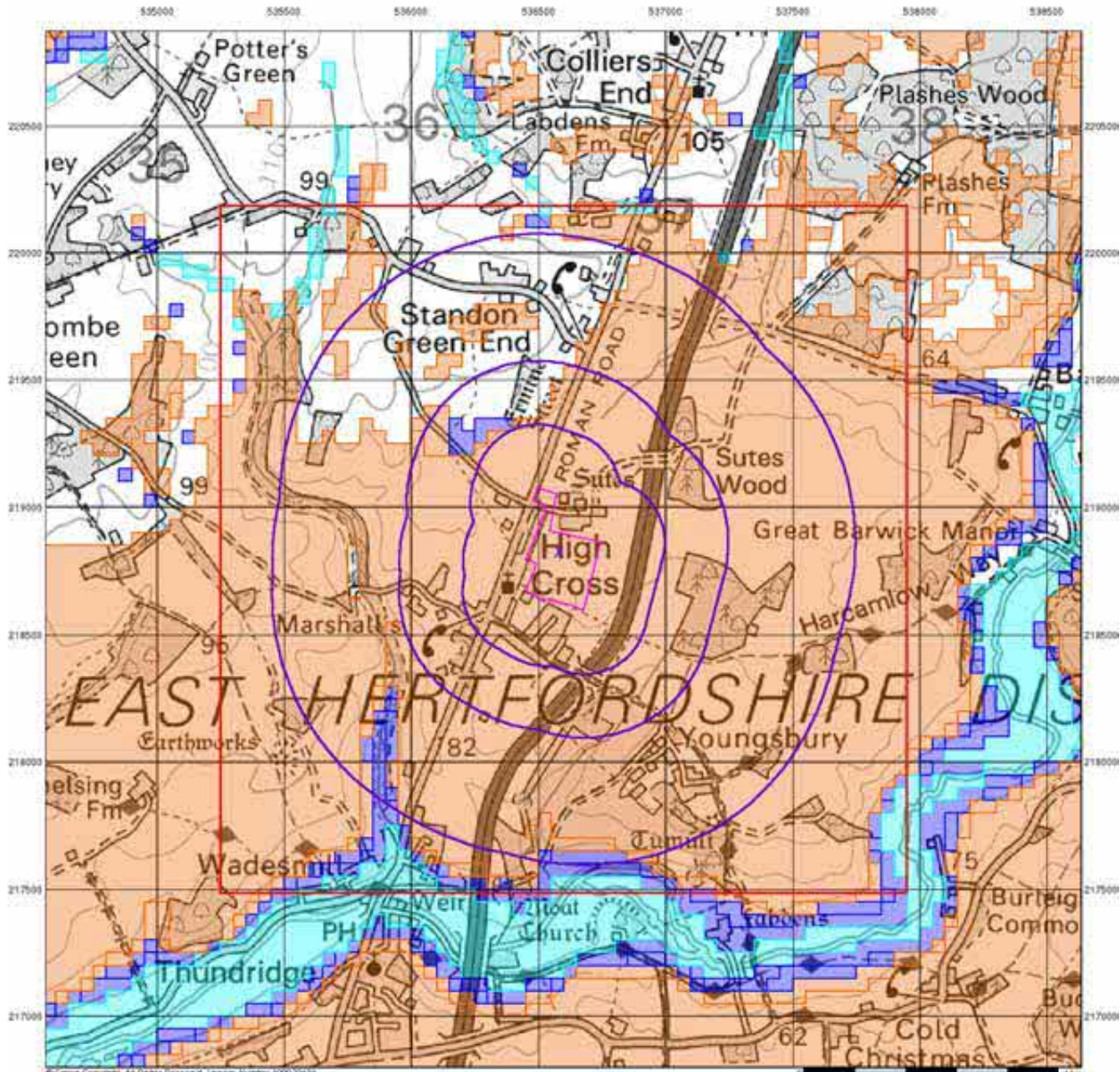


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 Slice: A
 Site Area (Ha): 7.3
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BGS Flood GFS Data

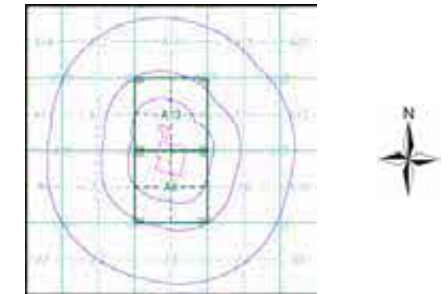
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277.EC.AR.DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
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Site Details

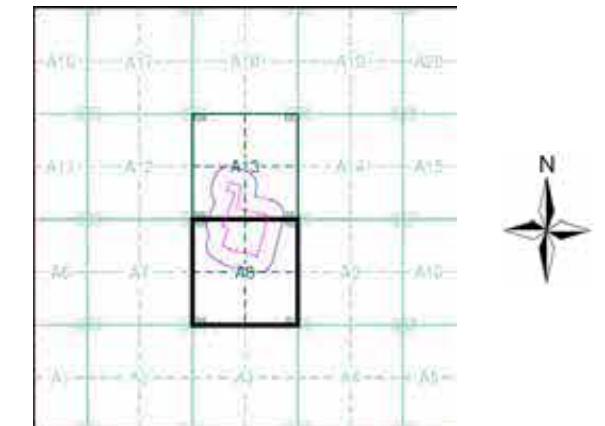
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pyton
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
 - BOS Recorded Landfill Site
 - EA Historic Landfill (Buried Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Five buffered to 100m)
 - Registered Landfill Site (Five buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site

Site Sensitivity Map - Segment A8

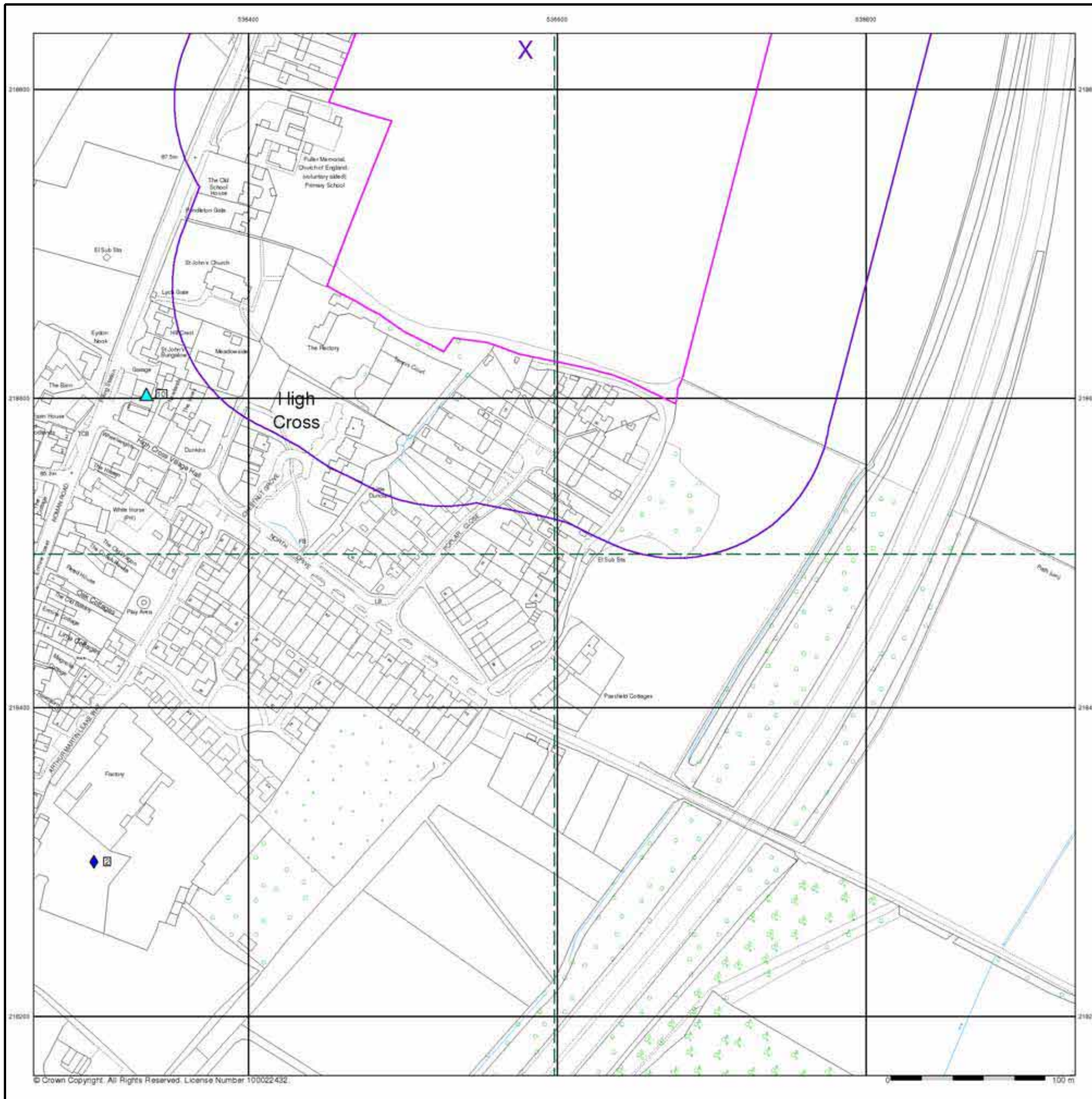


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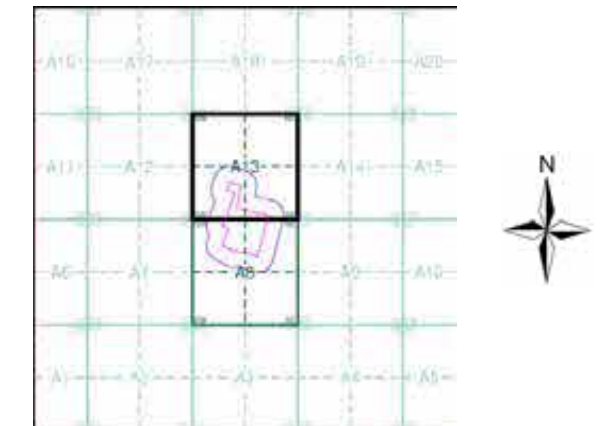
Site Details

Puller Memorial School, High Cross, Ware



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
- Contaminated Land Register Entry or Notion (Location)
 - Contaminated Land Register Entry or Notion
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorized Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BOS Recorded Mineral Site
- Waste**
- BOS Recorded Landfill Site (Location)
 - BOS Recorded Landfill Site
 - EA Historic Landfill (Bearing Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Five buffered to 100m)
 - Registered Landfill Site (Five buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13

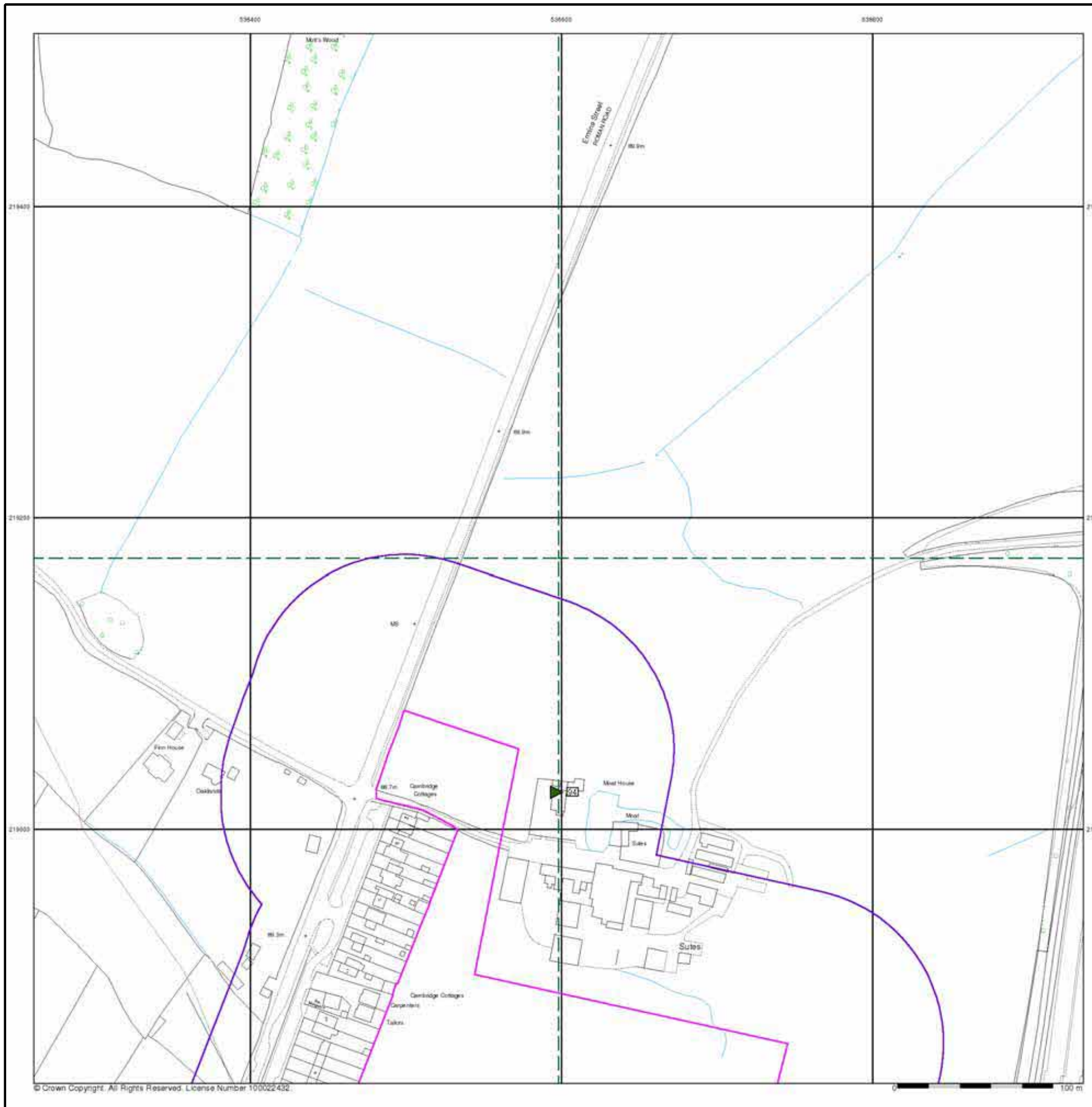


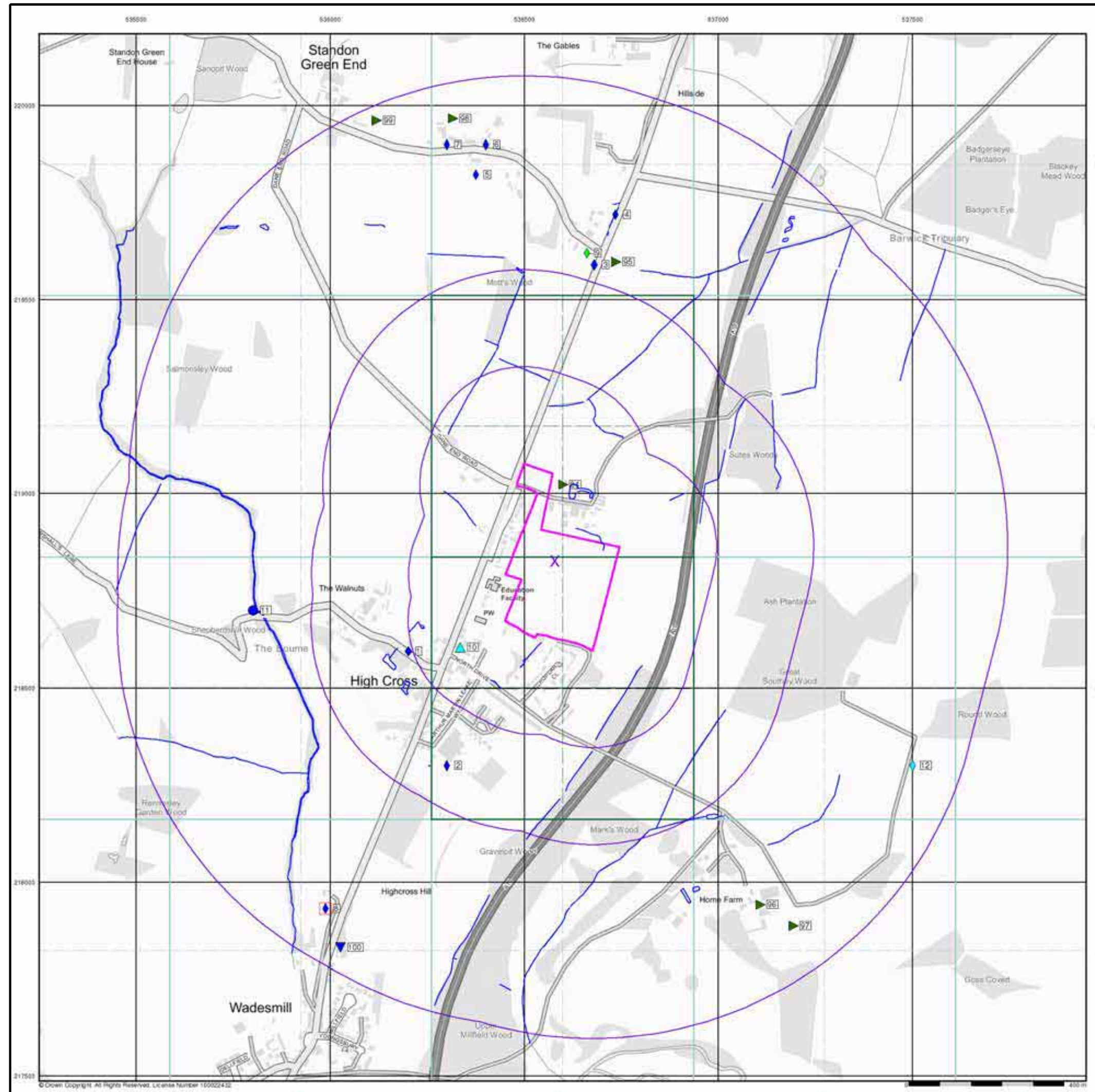
Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC_AR_DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Plot Buffer (m): 100

Site Details

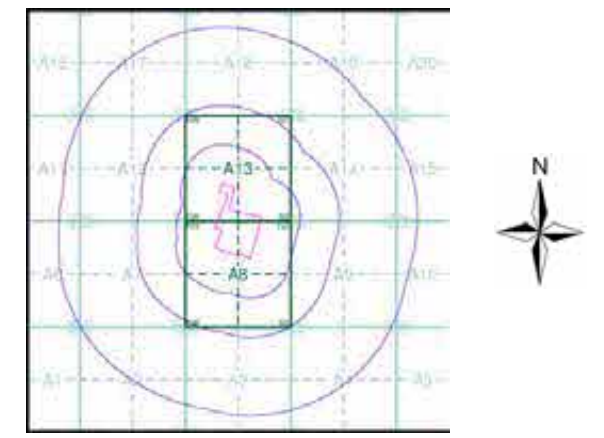
Puller Memorial School, High Cross, Ware





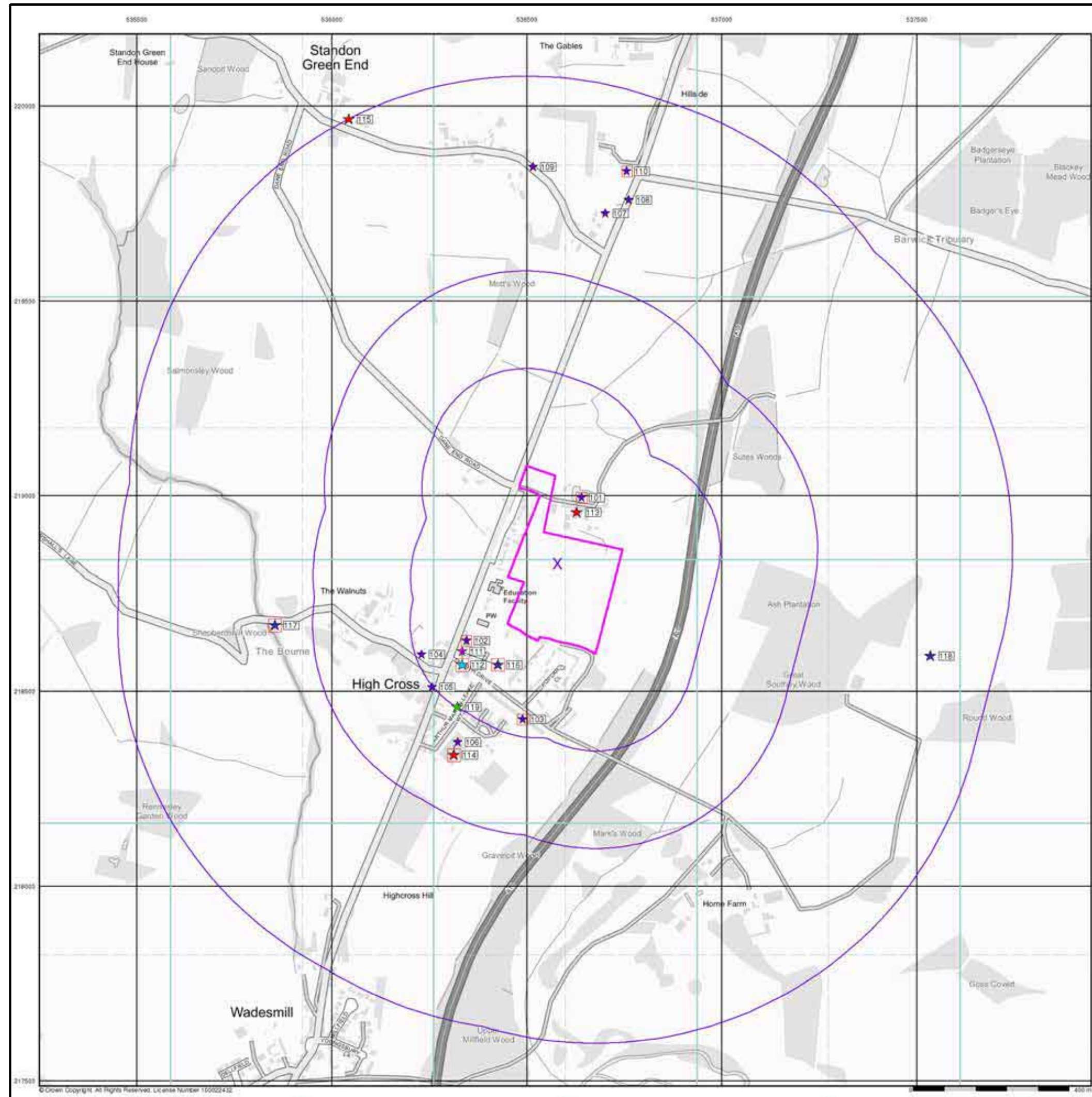
- | | | | | |
|--------------------------------|---|--|---|--|
| General | Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID |
| | Several of Type at Location | | | |
| Agency and Hydrological | Contaminated Land Register Entry or Notice (Location) | Discharge Consent | Enforcement or Prohibition Notice | Integrated Pollution Control |
| | Contaminated Land Register Entry or Notice | Local Authority Integrated Pollution Prevention and Control | Local Authority Pollution Prevention and Control | Local Authority Pollution Prevention and Control Enforcement |
| | Local Authority Integrated Pollution Prevention and Control | Local Authority Pollution Prevention and Control Enforcement | Pollution Incident to Controlled Waters | Prosecution Relating to Authorised Processes |
| | Prosecution Relating to Controlled Waters | Registered Radioactive Substance | River Network or Water Feature | River Quality Sampling Point |
| | Substantiated Pollution Incident Register | Water Abstraction | Water Industry Act Referral | |
| Hazardous Substances | COMAH Site | Explosive Site | NIRES Site | Planning Hazardous Substance Consent |
| | Planning Hazardous Substance Enforcement | | | |
| Geological | BGS Recorded Mineral Site | | | |
| Waste | BGS Recorded Landfill Site (Location) | BOS Recorded Landfill Site | EA Historic Landfill (Buffered Point) | EA Historic Landfill (Polygon) |
| | Integrated Pollution Control Registered Waste Site | Licensed Waste Management Facility (Landfill boundary) | Licensed Waste Management Facility (Location) | Local Authority Recorded Landfill Site (Location) |
| | Local Authority Recorded Landfill Site | Potentially Infilled Land (Non-water) | Potentially Infilled Land (Non-water) | Potentially Infilled Land (Non-water) |
| | Potentially Infilled Land (Water) | Potentially Infilled Land (Water) | Potentially Infilled Land (Water) | Potentially Infilled Land (Water) |
| | Registered Landfill Site | Registered Landfill Site (Point Buffered to 100m) | Registered Landfill Site (Point Buffered to 250m) | Registered Waste Transfer Site (Location) |
| | Registered Waste Transfer Site | Registered Waste Treatment or Disposal Site (Location) | Registered Waste Treatment or Disposal Site | |

Site Sensitivity Map - Slice A



Order Details
 Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

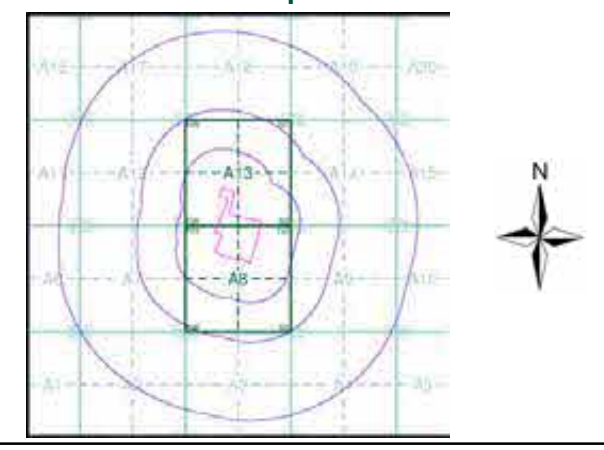
Site Details
 Puller Memorial School, High Cross, Ware



Industrial Land Use Map

- General**
- Specified Site
 - Slice
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Points of Interest - Commercial Services
 - Points of Interest - Education and Health
 - Points of Interest - Manufacturing and Production
 - Points of Interest - Public Infrastructure
 - Points of Interest - Recreational and Environmental
 - Underground Electrical Cables

Industrial Land Use Map - Slice A

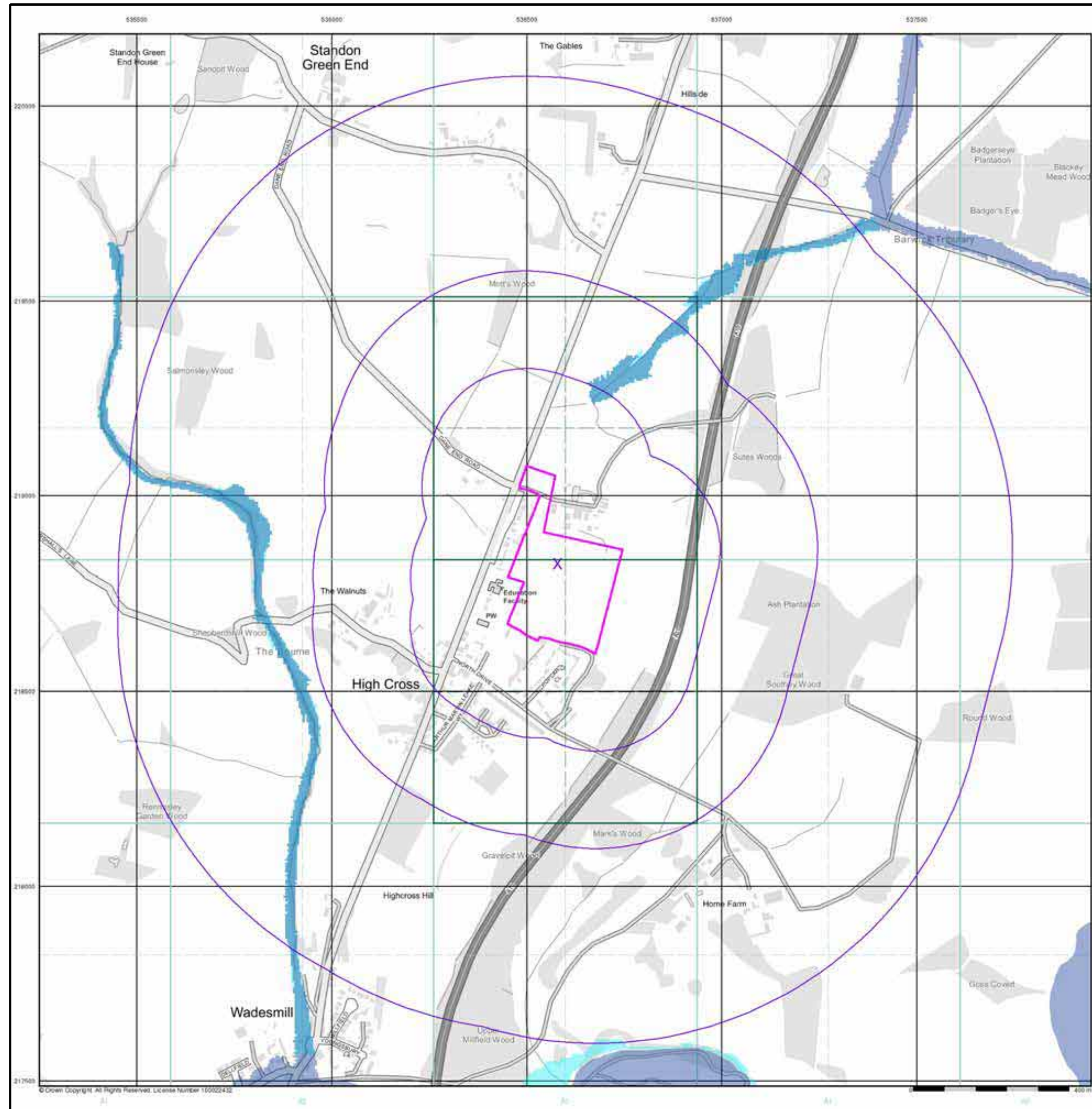


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

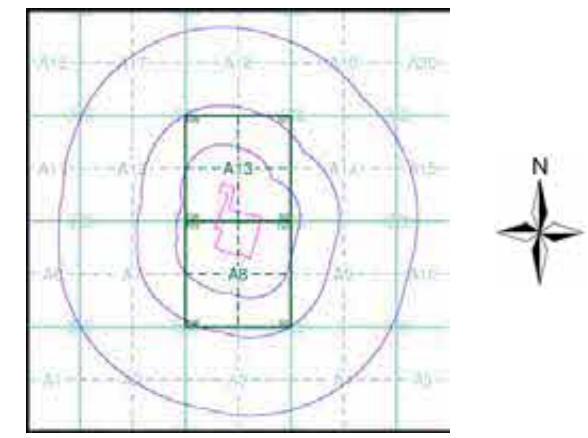
Site Details

Puller Memorial School, High Cross, Ware



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
- Agency and Hydrological (Flood)**
- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
 - Flooding from Rivers or Sea without Defences (Zone 3)
 - Area Benefiting from Flood Defence
 - Flood Water Storage Areas
 - Flood Defence

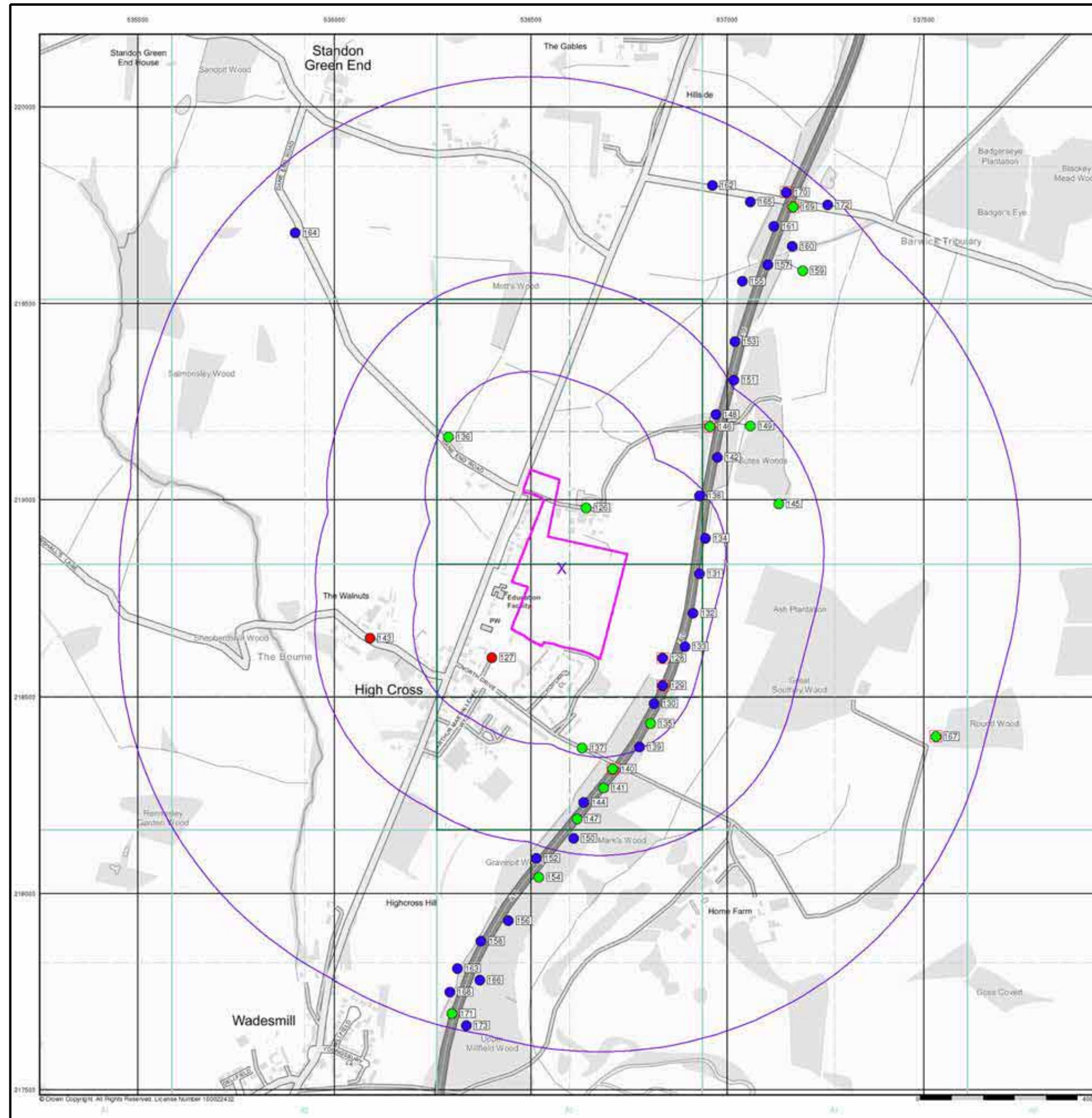
Flood Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details
 Puller Memorial School, High Cross, Ware



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

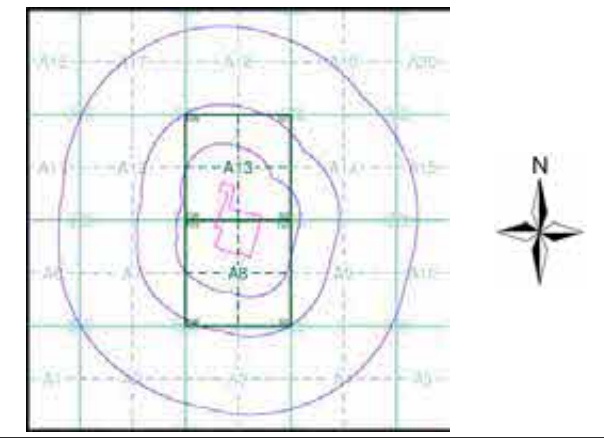
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

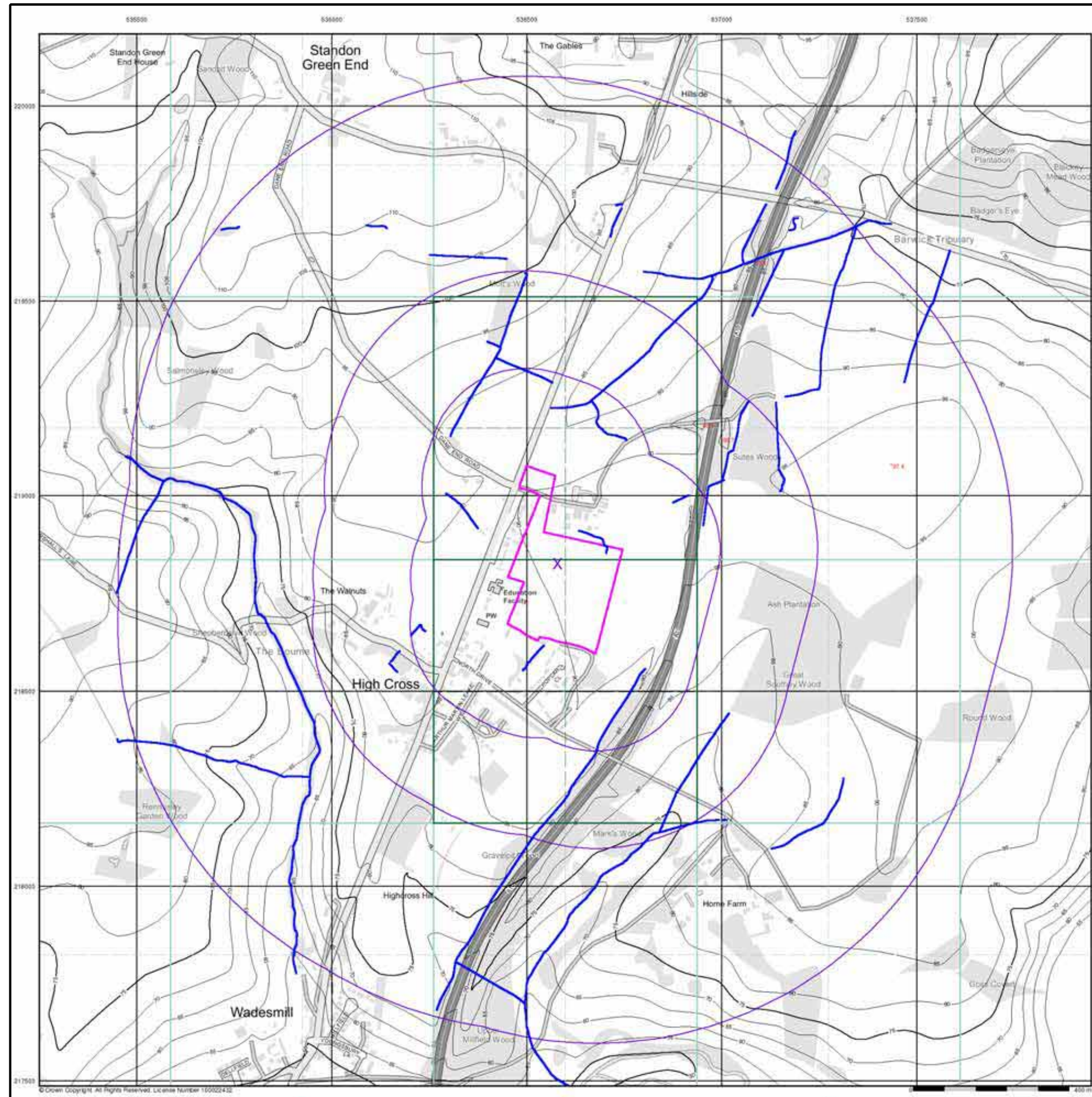


Order Details

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 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

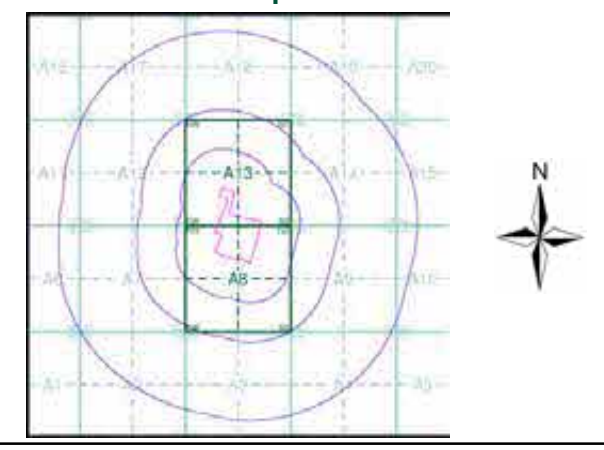
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 5m
- Master Contour 100m
- Spot Height 167.3
- | | |
|-----|-----------------|
| MLW | Mean Low Water |
| MHW | Mean High Water |

OS Water Network Map - Slice A

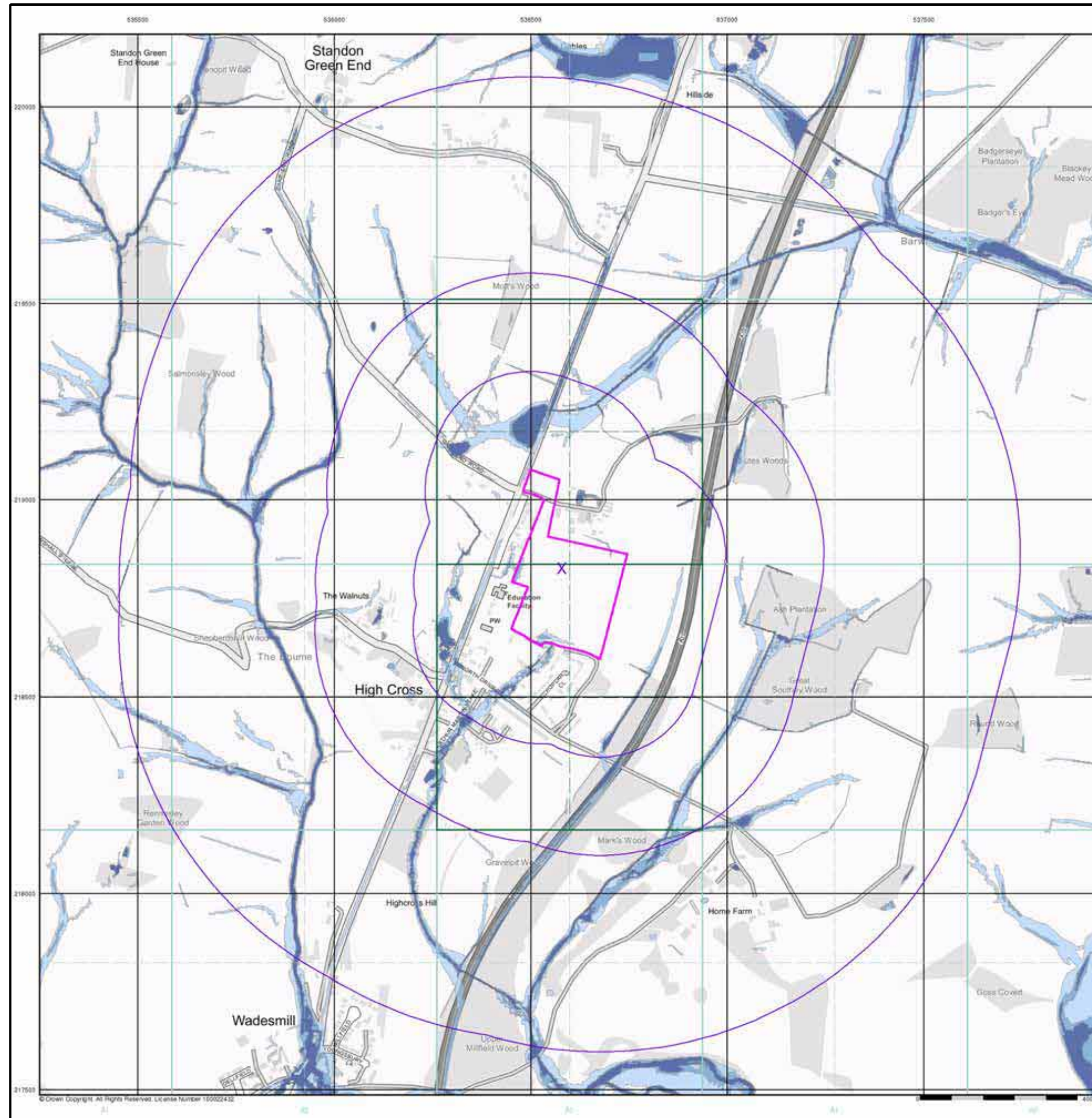


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

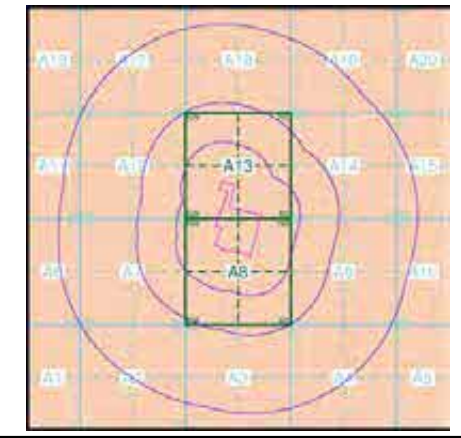
Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

- See the suitability map below:
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

EANRW Suitability Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

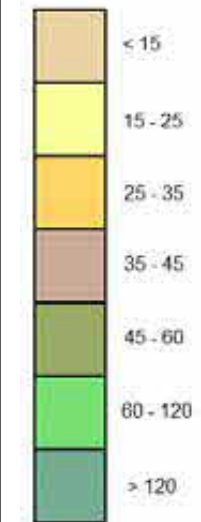
Puller Memorial School, High Cross, Ware

General

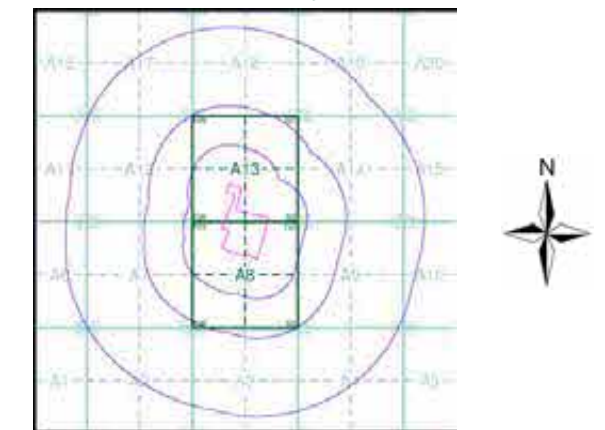
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

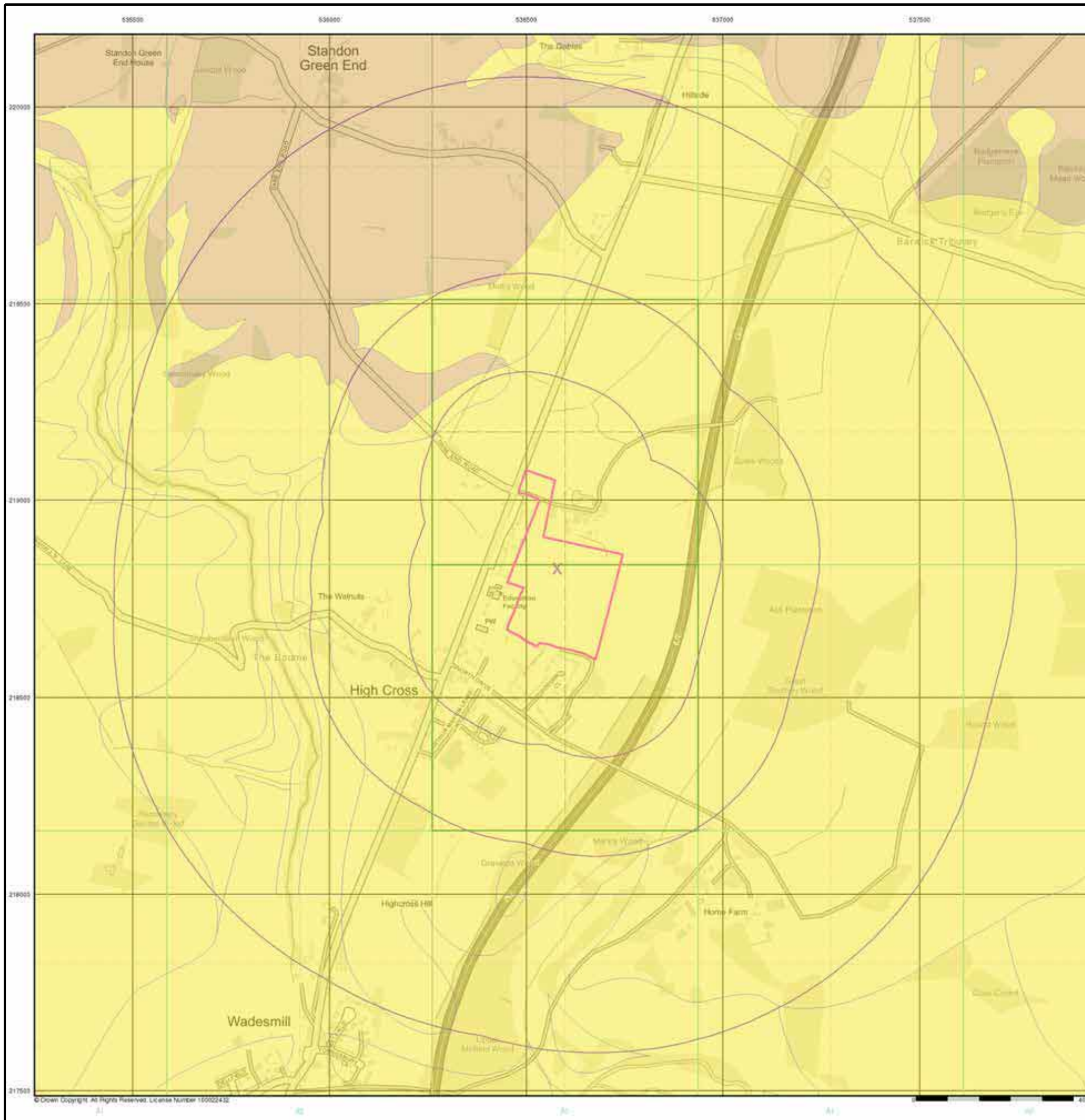


Order Details

Order Details: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



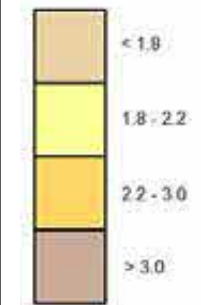
© Crown Copyright. All Rights Reserved. License Number 10002432

General

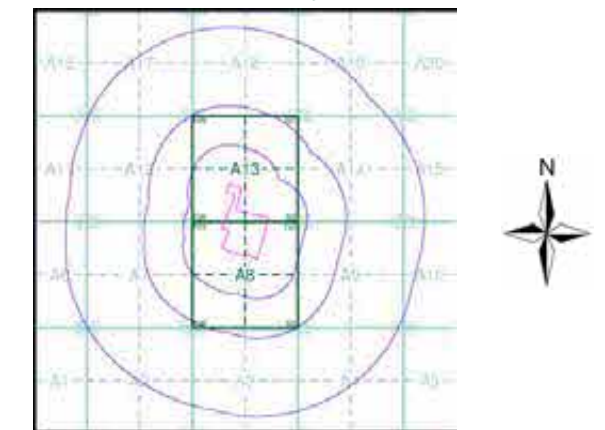
○ Specified Site
 ○ Specified Buffer(s)
 X Basing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

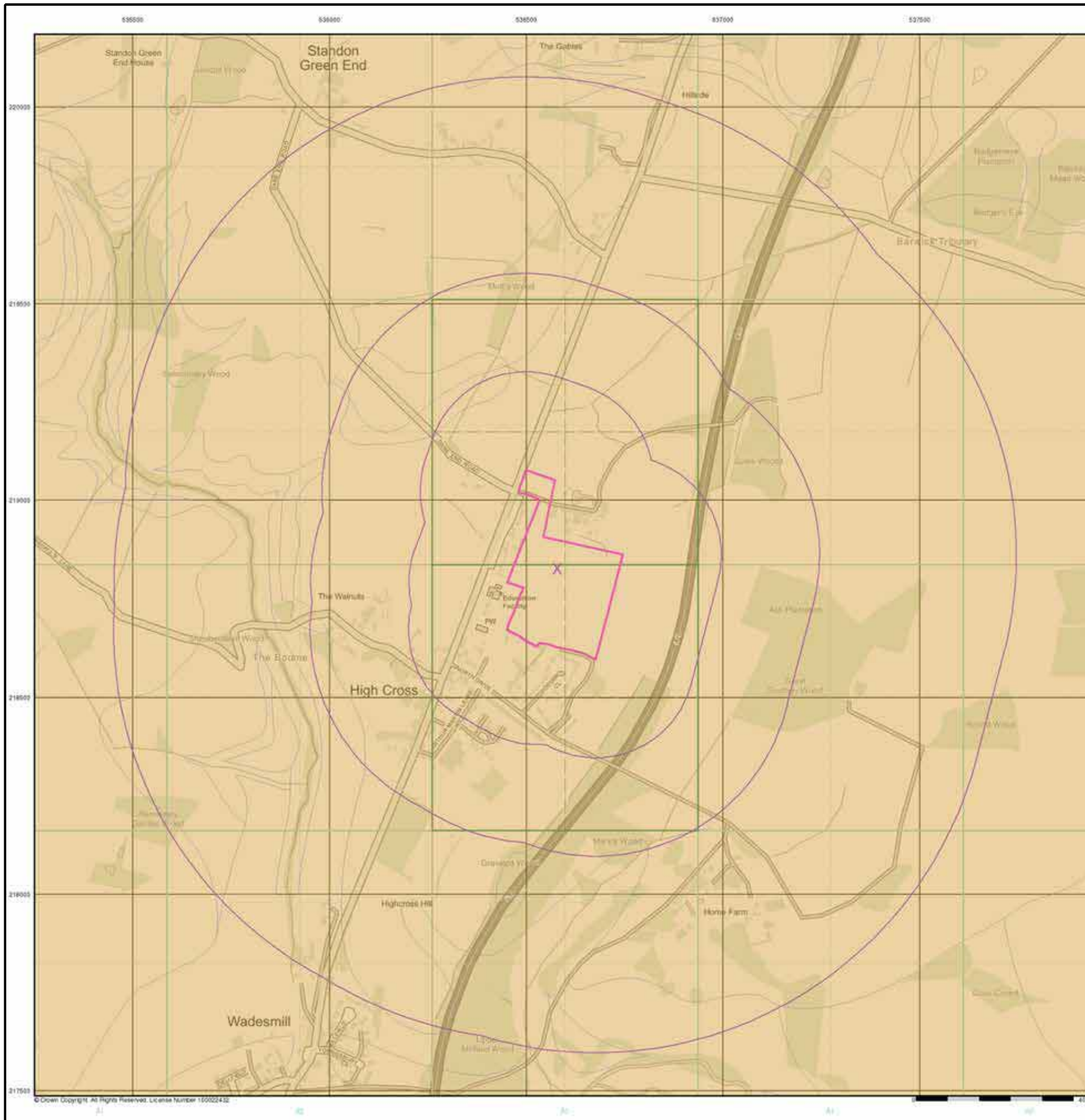


Order Details

Order Details: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



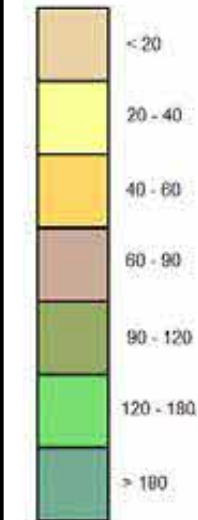
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General

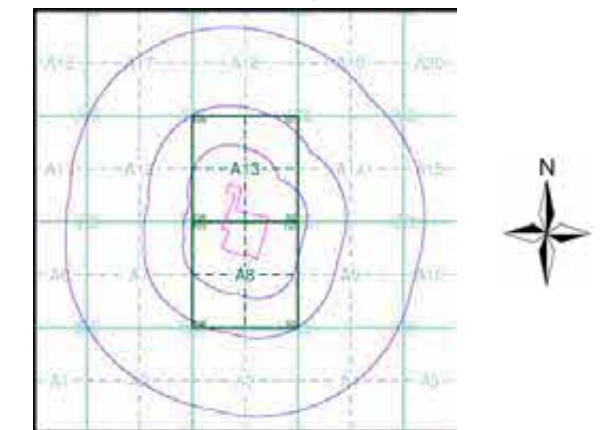
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

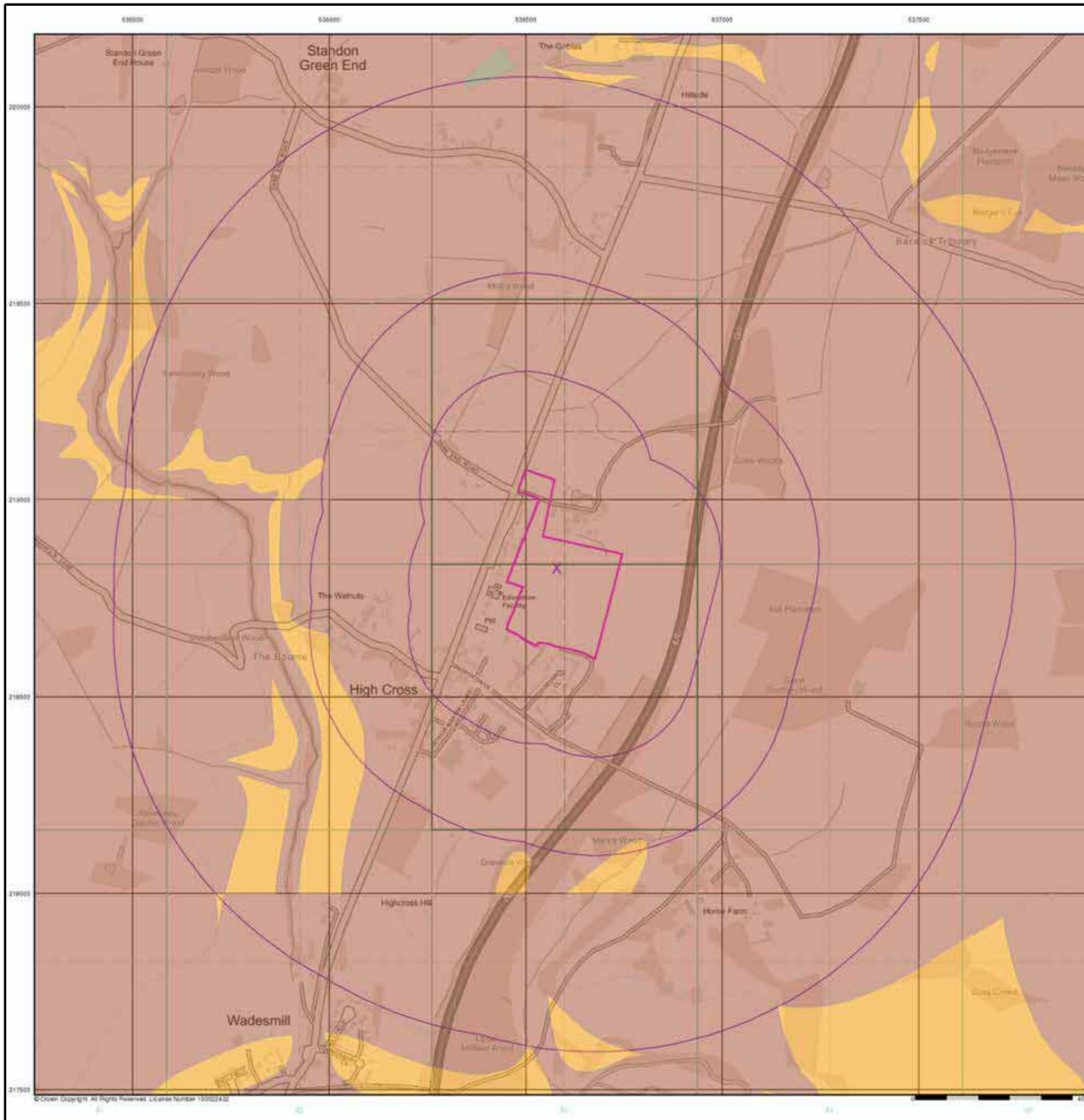


Order Details

Order Details: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware

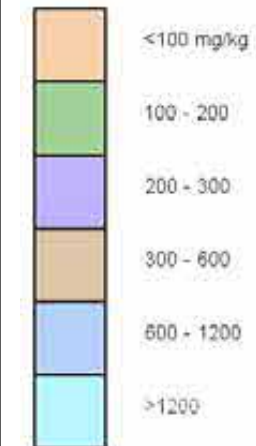


General

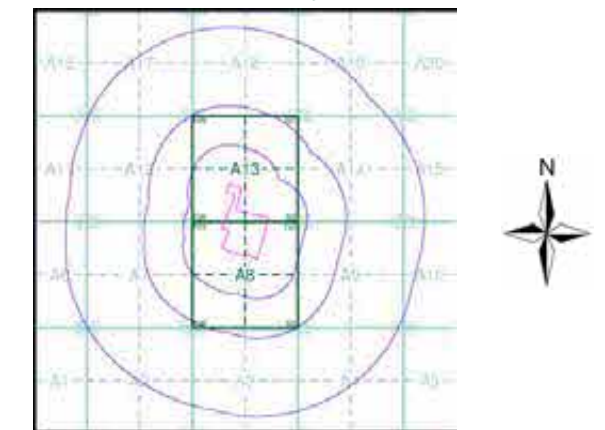
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

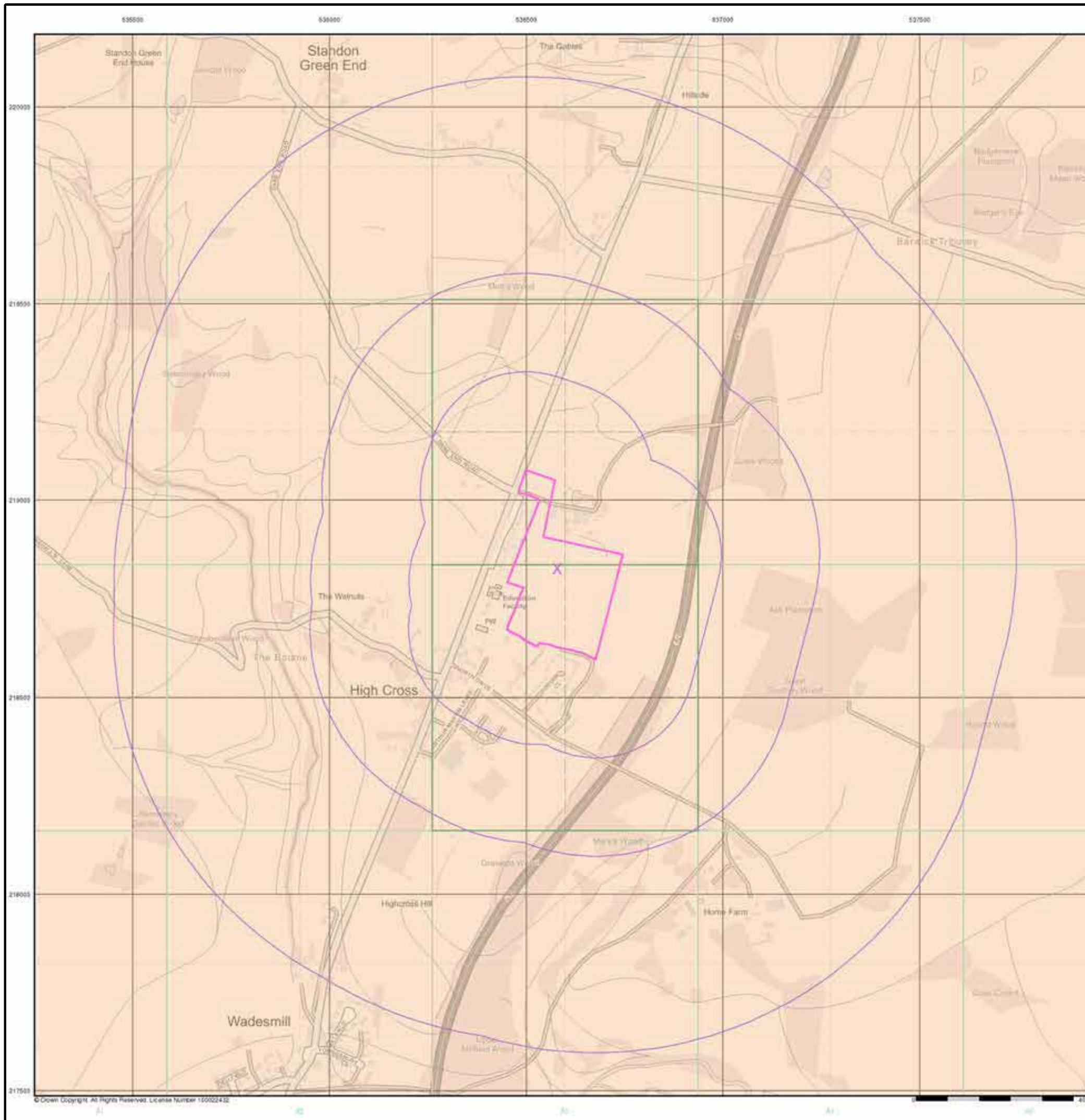


Order Details

Order Details: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware

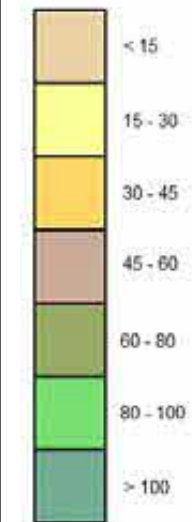


General

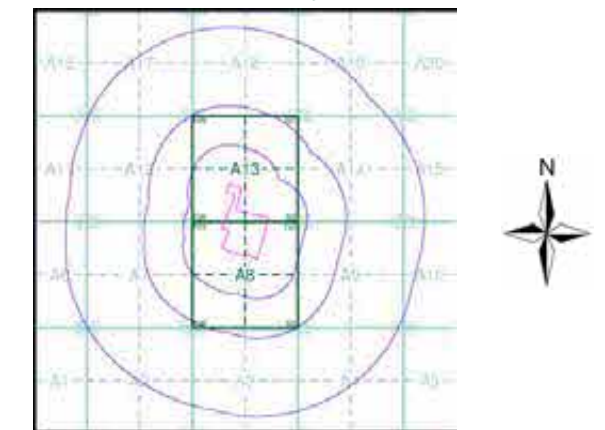
✱ Specified Site
 ○ Specified Buffer(s)
 ✕ Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

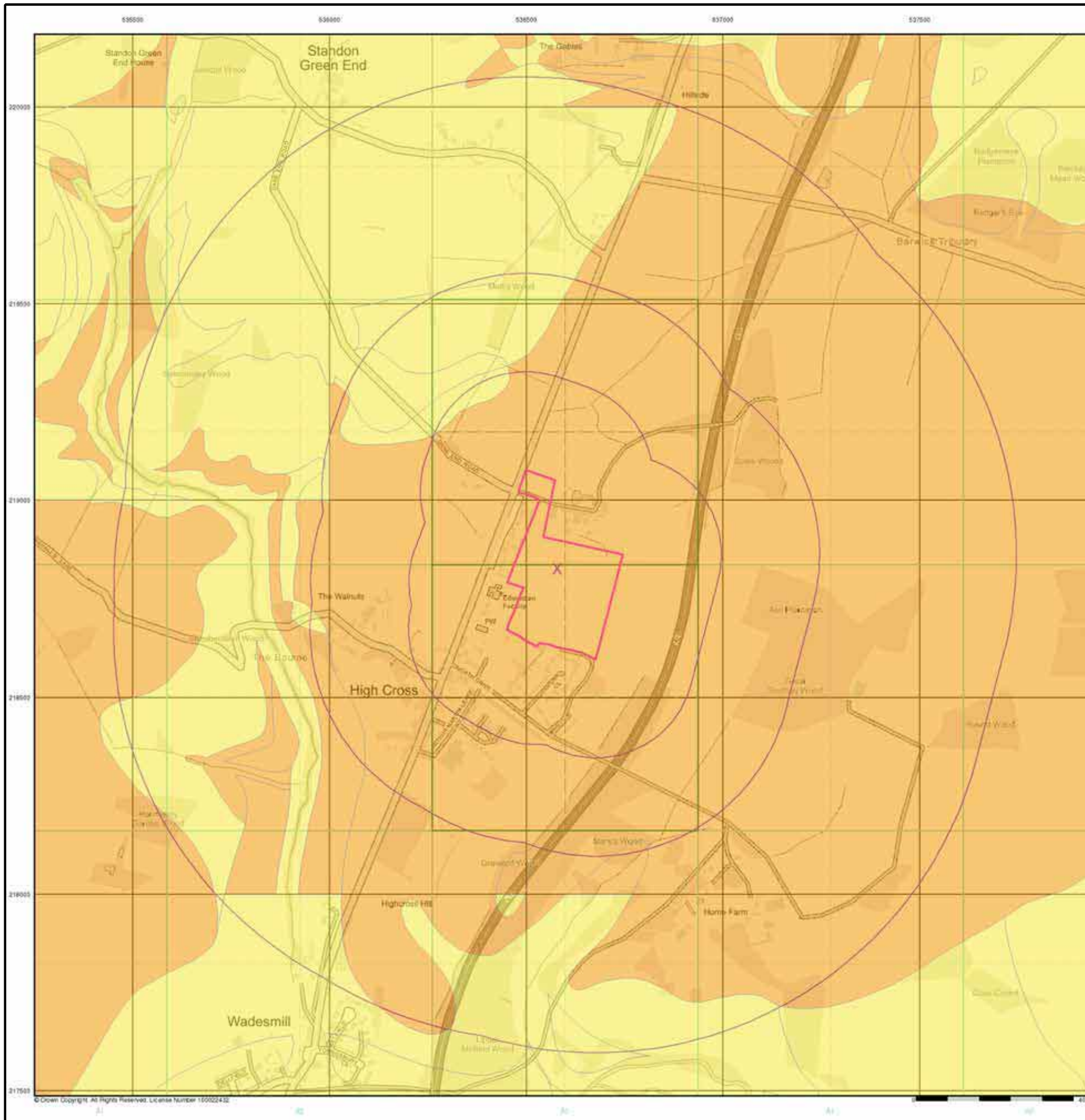


Order Details

Order Details: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



Appendix 4 – Envirocheck Historical Maps

Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
B.P. B.S. Boundary Post or Stone **P.C.B.** Police Call Box
B.R. Bridle Road **P.** Pump
E.P. Electricity Pylon **S.P.** Signal Post
F.B. Foot Bridge **Sl.** Sluice
F.P. Foot Path **Sp.** Spring
G.P. Guide Post or Board **T.C.B.** Telephone Call Box
M.S. Mile Stone **Tr.** Trough
M.P. M.R. Mooring Post or Ring **W.** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

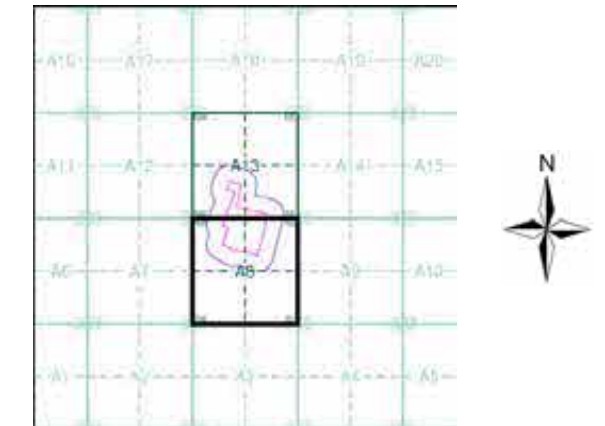
Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.68m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:2,500	1879 - 1880	2
Hertfordshire	1:2,500	1898	3
Hertfordshire	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1974	5
Large-Scale National Grid Data	1:2,500	1993	6
Large-Scale National Grid Data	1:2,500	1993	7
Historical Aerial Photography	1:2,500	2000	8

Historical Map - Segment A8

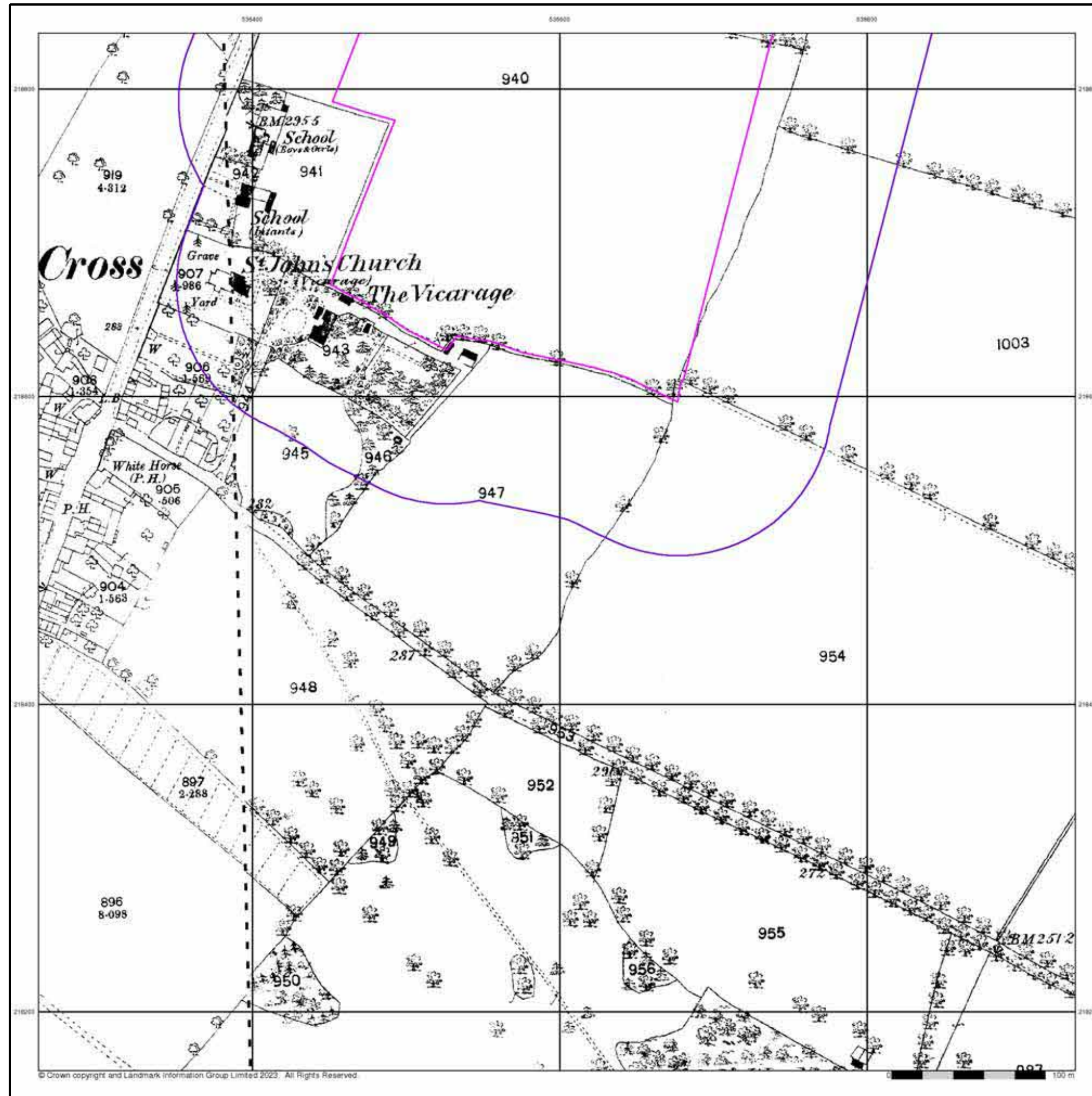


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



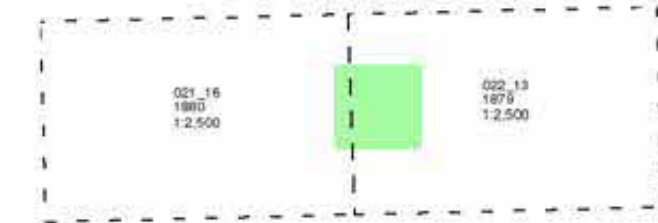
Hertfordshire

Published 1879 - 1880

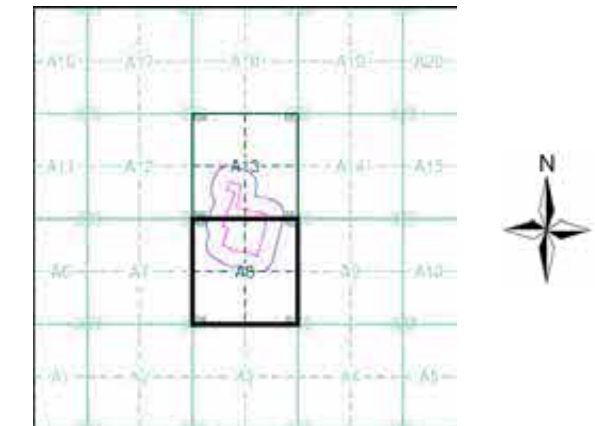
Source map scale - 1:2,500

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 A8

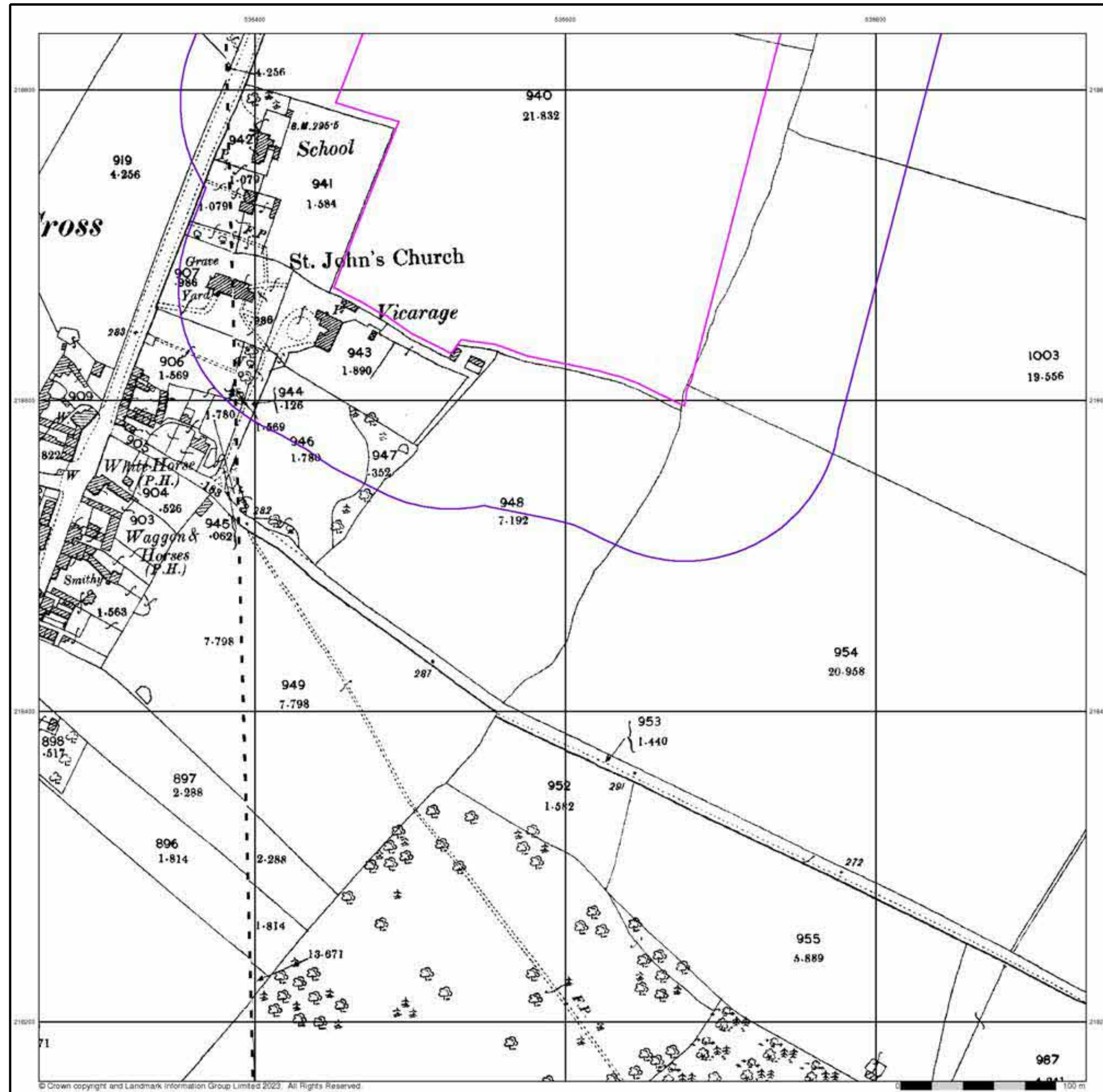


Order Details

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 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



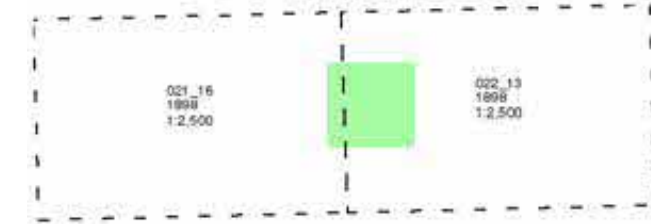
Hertfordshire

Published 1898

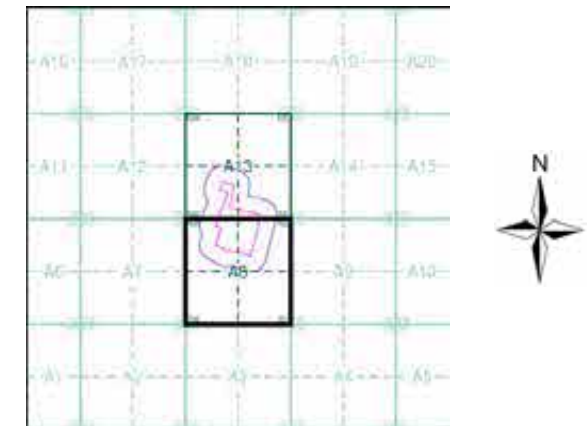
Source map scale - 1:2,500

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 A8



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware

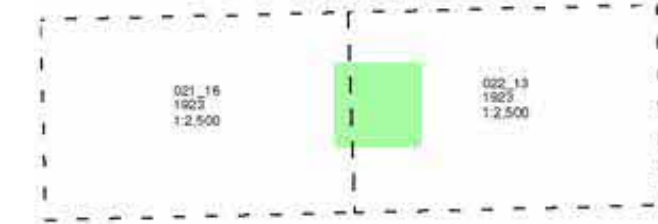
Hertfordshire

Published 1923

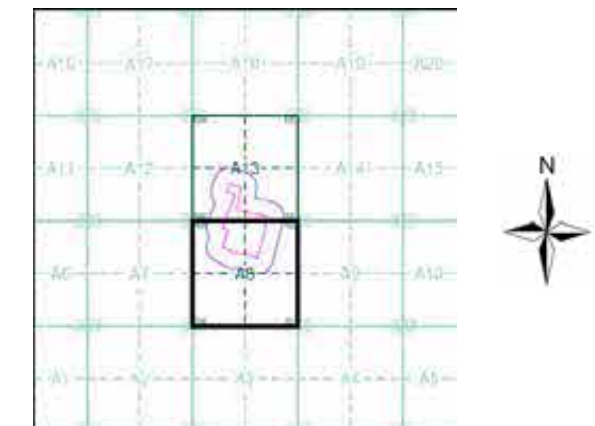
Source map scale - 1:2,500

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 A8

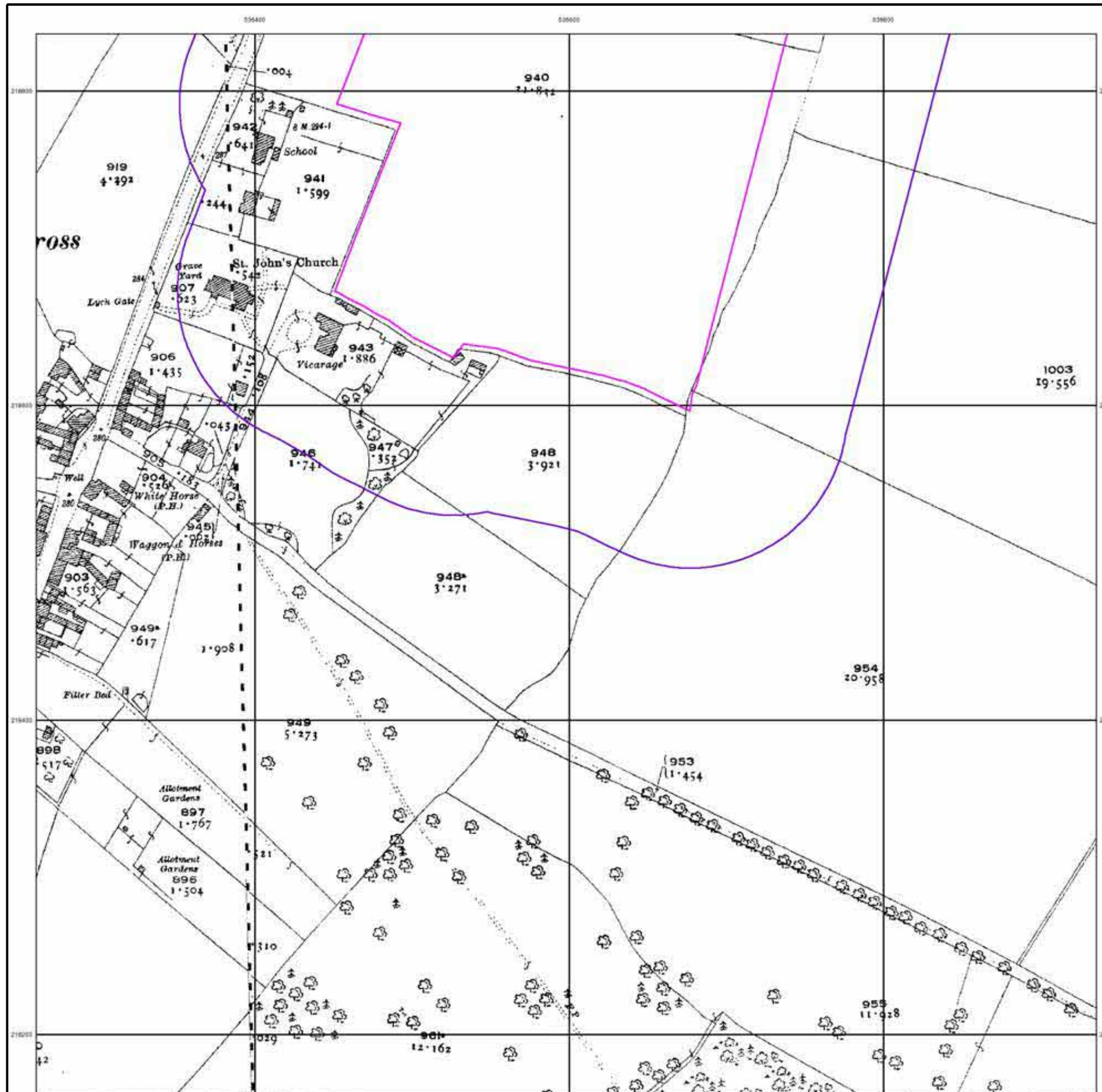


Order Details

Order Number: 313993346_1_1
Customer Ref: 7277_EC,AR,DS
National Grid Reference: 536580, 218830
Slice: A
Site Area (Ha): 7.3
Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



Ordnance Survey Plan

Published 1974

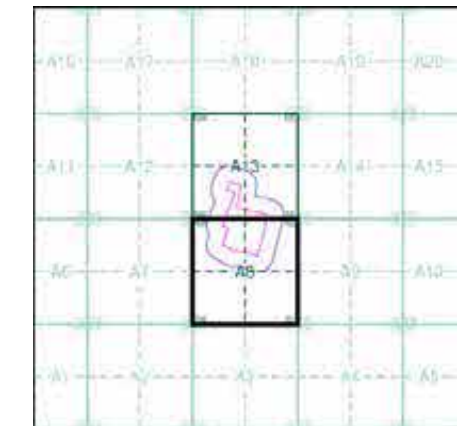
Source map scale - 1:2,500

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 A8

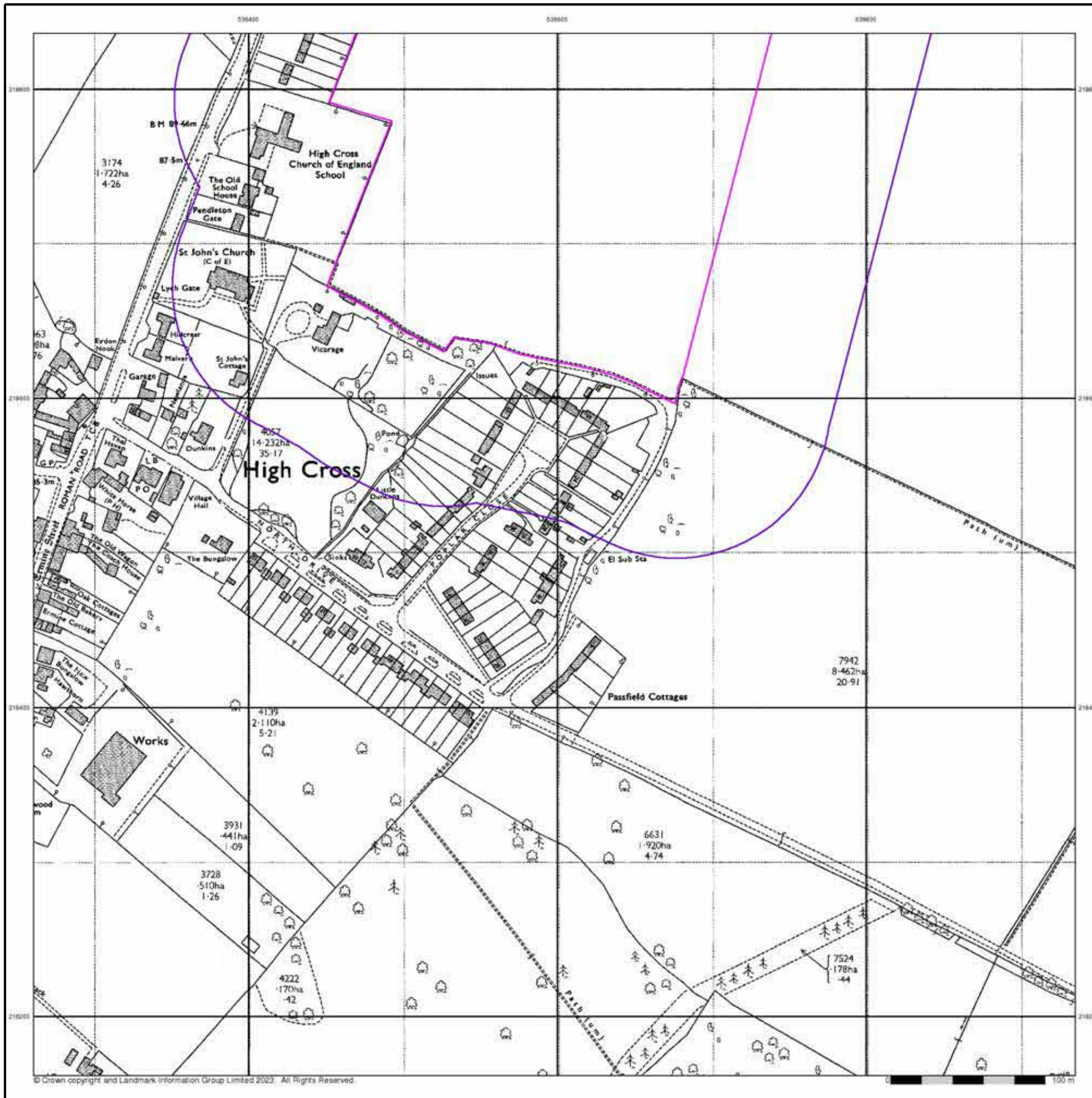


Order Details

Order Number: 313993346_1_1
Customer Ref: 7277_EC,AR,DS
National Grid Reference: 536580, 218830
Slice: A
Site Area (Ha): 7.3
Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



Large-Scale National Grid Data

Published 1993

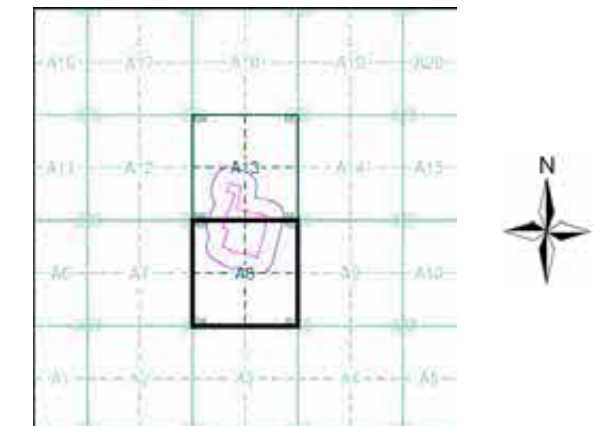
Source map scale - 1:2,500

'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 A8

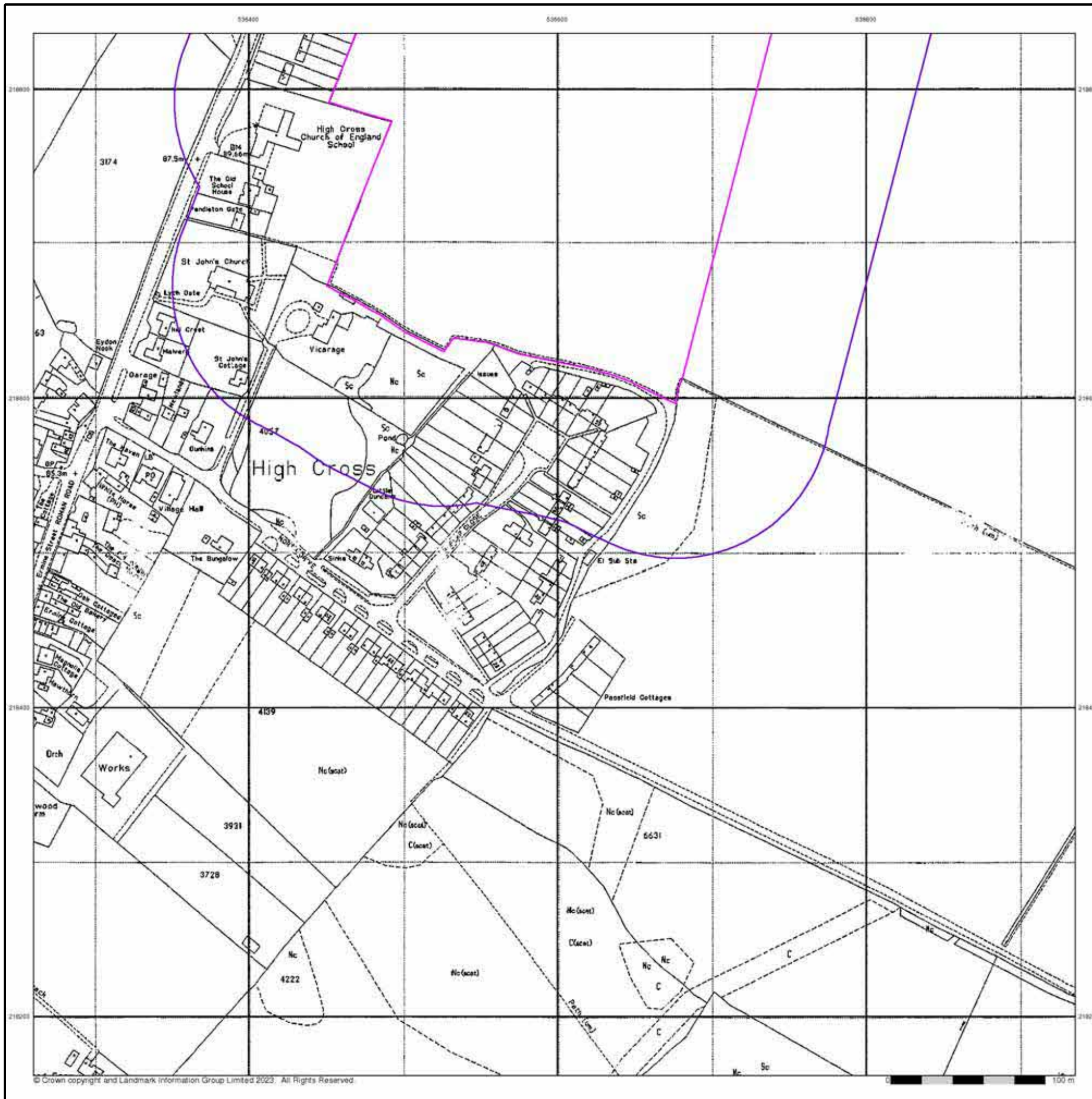


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



Large-Scale National Grid Data

Published 1993

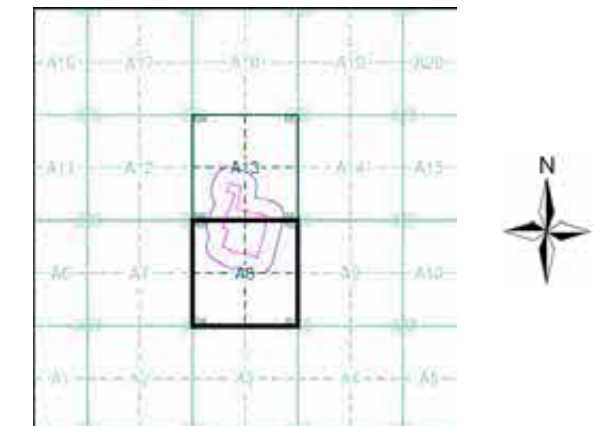
Source map scale - 1:2,500

'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 A8



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware

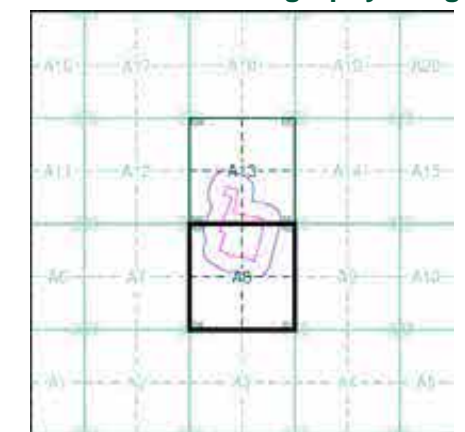


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A8



Order Details

Order Number: 313993346_1_1
Customer Ref: 7277_EC,AR,DS
National Grid Reference: 536580, 218830
Slice: A
Site Area (Ha): 7.3
Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



Historical Mapping Legends

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

Quarry, **Gravel Pit**, **Sand Pit**, **Clay Pit**, **Shingle**, **Refuse Heap**, **Sloping Masonry**, **Flat Rock**, **Marsh**, **Reeds**, **Osiers**, **Rough Pasture**, **Furze**, **Wood**, **Mixed Wood**, **Brushwood**, **Orchard**, **Fir**, **Ford**, **Stepping Stones**, **Ferry**, **Waterfall**, **Lock**, **Trig. Station**, **Altitude at Trig. Station**, **B.M. 325.9**, **Bench Mark**, **Surface Level**, **Arrow denotes flow of water**, **Antiquities (site of)**, **Cutting**, **Embankment**, **Railway crossing Road**, **Level Crossing**, **Road crossing Railway**, **Railway crossing River or Canal**, **Road over single stream**, **Road over River or Canal**, **County Boundary (Geographical)**, **County & Civil Parish Boundary**, **Administrative County & Civil Parish Boundary**, **County Borough Boundary (England)**, **Co. Boro. Bdy.**, **County Burgh Boundary (Scotland)**, **Co. Burgh Bdy.**, **B.P. B.S.** Boundary Post or Stone, **P.C.B.** Police Call Box, **B.R.** Bridle Road, **P.** Pump, **E.P.** Electricity Pylon, **S.P.** Signal Post, **F.B.** Foot Bridge, **Sl.** Sluice, **F.P.** Foot Path, **Sp.** Spring, **G.P.** Guide Post or Board, **T.C.B.** Telephone Call Box, **M.S.** Mile Stone, **Tr.** Trough, **M.P. M.R.** Mooring Post or Ring, **W.** Well

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

Inactive Quarry, Chalk Pit or Clay Pit, **Active Quarry, Chalk Pit or Clay Pit**, **Rock**, **Boulders**, **Cliff**, **Slopes**, **Top**, **Roofed Building**, **Glazed Roof Building**, **Sloping Masonry**, **Archway**, **Non-Coniferous Tree (surveyed)**, **Coniferous Tree (surveyed)**, **Non-Coniferous Trees (not surveyed)**, **Coniferous Trees (not surveyed)**, **Orchard Tree**, **Scrub**, **Bracken**, **Coppice, Osier**, **Reeds**, **Marsh, Saltings**, **Rough Grassland**, **Heath**, **Culvert**, **Direction of water flow**, **B.M.** Bench Mark, **Antiquity (site of)**, **Cave Entrance**, **Triangulation Station**, **Electricity Pylon**, **Electricity Transmission Line**, **County Boundary (Geographical)**, **County & Civil Parish Boundary**, **Civil Parish Boundary**, **Admin. County or County Bor. Boundary**, **L. B. Bdy.** London Borough Boundary, **Symbol marking point where boundary mereing changes**, **BH** Beer House, **P** Pillar, Pole or Post, **BP, BS** Boundary Post or Stone, **PO** Post Office, **Cn, C** Capstan, Crane, **PC** Public Convenience, **Chy** Chimney, **PH** Public House, **D.Fn** Drinking Fountain, **Pp** Pump, **EI P** Electricity Pillar or Post, **SB, S Br** Signal Box or Bridge, **FAP** Fire Alarm Pillar, **SP, SL** Signal Post or Light, **FB** Foot Bridge, **Spr** Spring, **GP** Guide Post, **Tk** Tank or Track, **H** Hydrant or Hydraulic, **TCB** Telephone Call Box, **LC** Level Crossing, **TCP** Telephone Call Post, **MH** Manhole, **Tr** Trough, **MP** Mile Post or Mooring Post, **Wr Pt, Wr T** Water Point, Water Tap, **MS** Mile Stone, **W** Well, **NTL** Normal Tidal Limit, **Wd Pp** Wind Pump

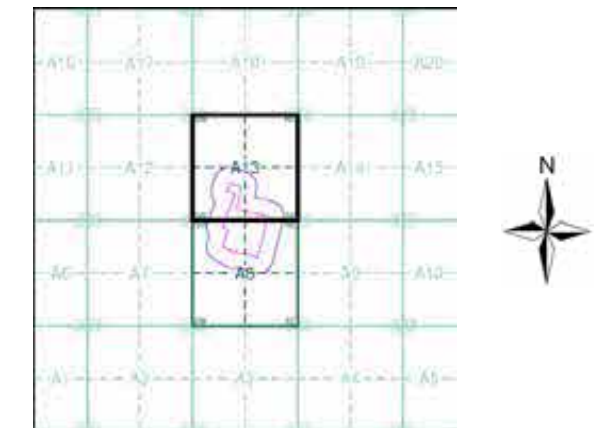
Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff, **Slopes**, **Top**, **Rock**, **Rock (scattered)**, **Boulders**, **Boulders (scattered)**, **Positioned Boulder**, **Scree**, **Non-Coniferous Tree (surveyed)**, **Coniferous Tree (surveyed)**, **Non-Coniferous Trees (not surveyed)**, **Coniferous Trees (not surveyed)**, **Orchard Tree**, **Scrub**, **Bracken**, **Coppice, Osier**, **Reeds**, **Marsh, Saltings**, **Rough Grassland**, **Heath**, **Culvert**, **Direction of water flow**, **Triangulation Station**, **Antiquity (site of)**, **Electricity Transmission Line**, **Electricity Pylon**, **B.M. 231.68m** Bench Mark, **Buildings with Building Seed**, **Roofed Building**, **Glazed Roof Building**, **Civil parish/community boundary**, **District boundary**, **County boundary**, **Boundary post/stone**, **Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**, **Bks** Barracks, **P** Pillar, Pole or Post, **Bty** Battery, **PO** Post Office, **Cemy** Cemetery, **PC** Public Convenience, **Chy** Chimney, **Pp** Pump, **Cis** Cistern, **Ppg Sta** Pumping Station, **Dismtd Rly** Dismantled Railway, **PW** Place of Worship, **EI Gen Sta** Electricity Generating Station, **Sewage Ppg Sta** Sewage Pumping Station, **EI P** Electricity Pole, Pillar, **SB, S Br** Signal Box or Bridge, **EI Sub Sta** Electricity Sub Station, **SP, SL** Signal Post or Light, **FB** Filter Bed, **Spr** Spring, **Fn / D Fn** Fountain / Drinking Ftn., **Tk** Tank or Track, **Gas Gov** Gas Valve Compound, **Tr** Trough, **GVC** Gas Governor, **Wd Pp** Wind Pump, **GP** Guide Post, **Wr Pt, Wr T** Water Point, Water Tap, **MH** Manhole, **Wks** Works (building or area), **MP, MS** Mile Post or Mile Stone, **W** Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:2,500	1879 - 1880	2
Hertfordshire	1:2,500	1898	3
Hertfordshire	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1974	5
Large-Scale National Grid Data	1:2,500	1993	6
Large-Scale National Grid Data	1:2,500	1993	7
Historical Aerial Photography	1:2,500	2000	8

Historical Map - Segment A13



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware

Hertfordshire

Published 1879 - 1880

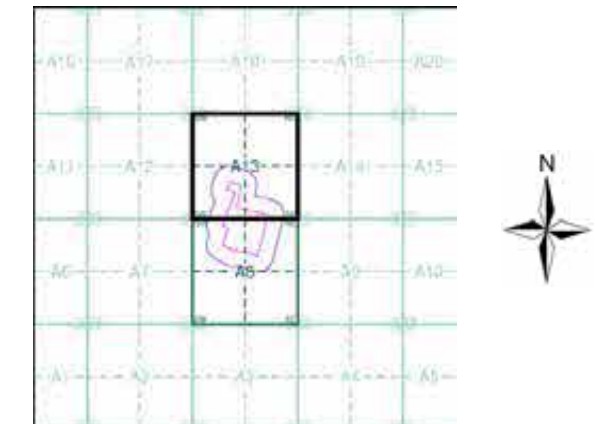
Source map scale - 1:2,500

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)

021_12 1880 1:2,500	022_09 1879 1:2,500
021_16 1880 1:2,500	022_13 1879 1:2,500

Historical Map - Segment A13

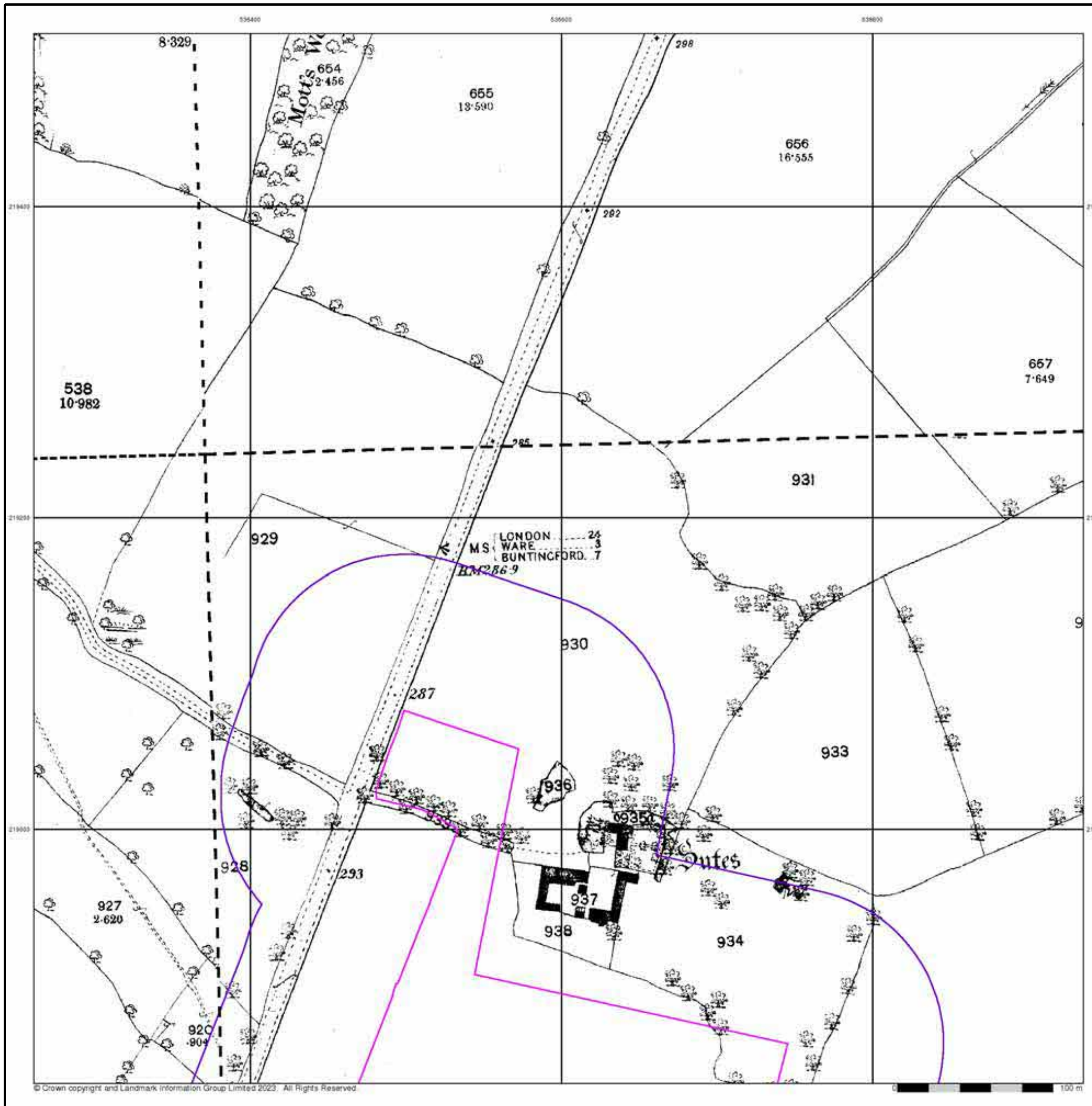


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



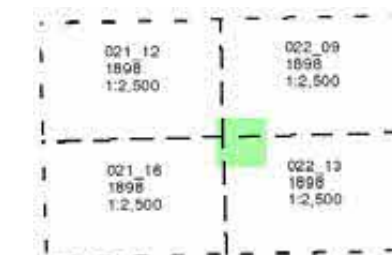
Hertfordshire

Published 1898

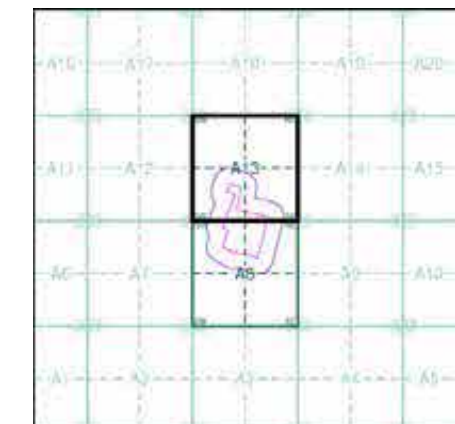
Source map scale - 1:2,500

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

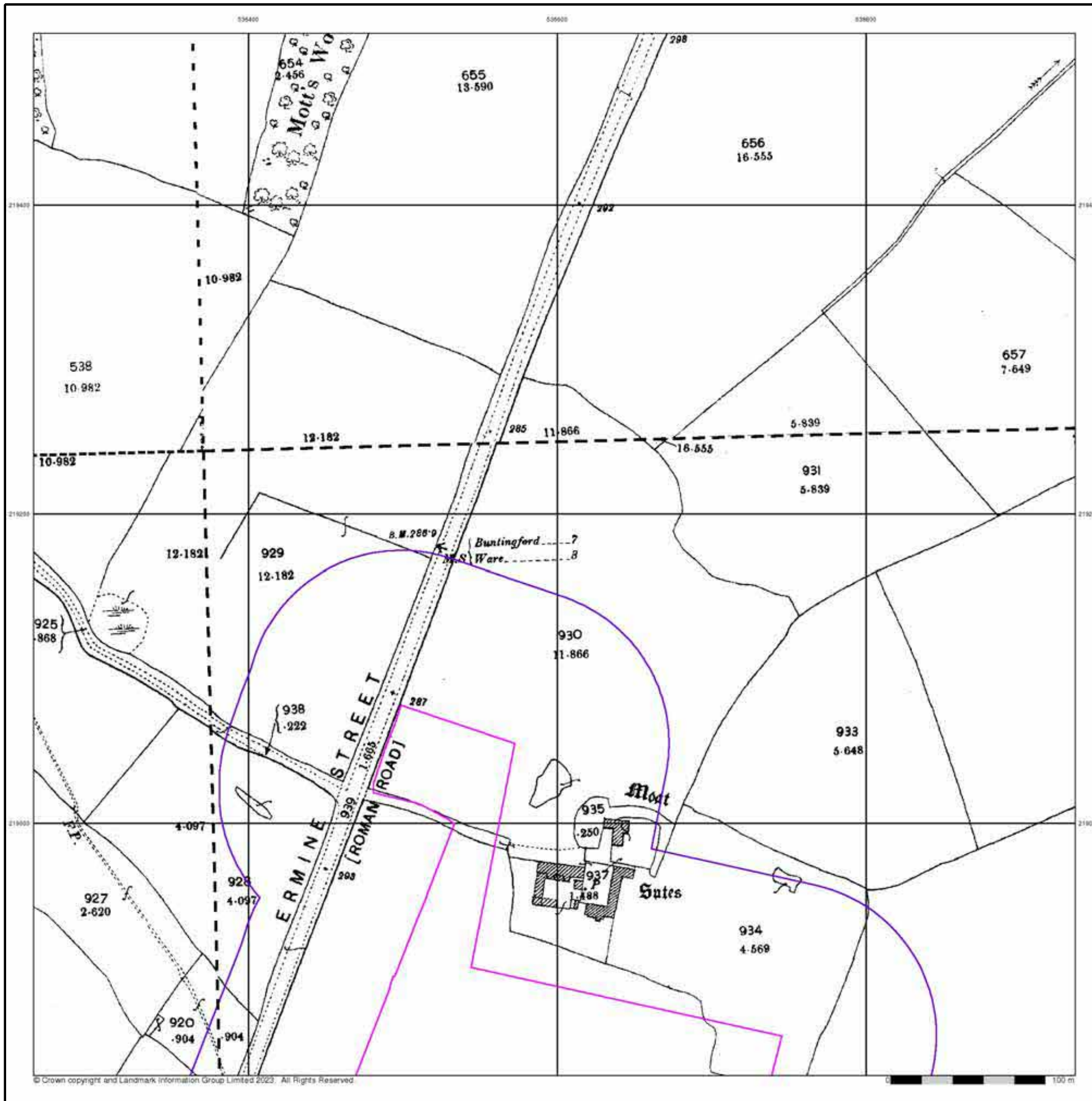


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



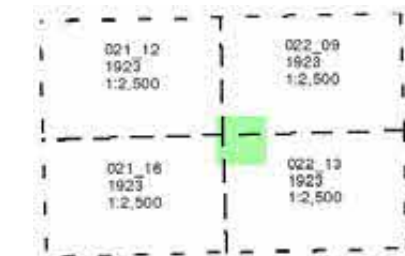
Hertfordshire

Published 1923

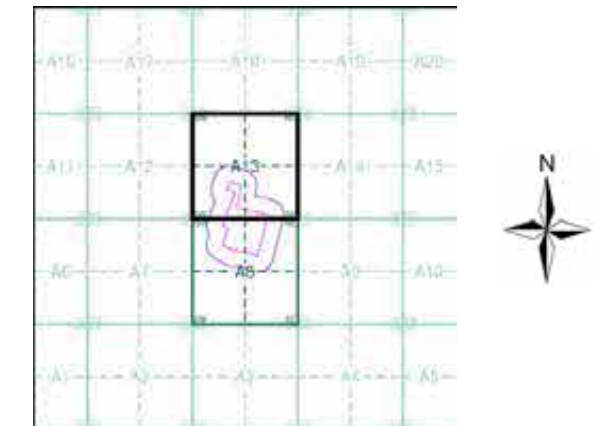
Source map scale - 1:2,500

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

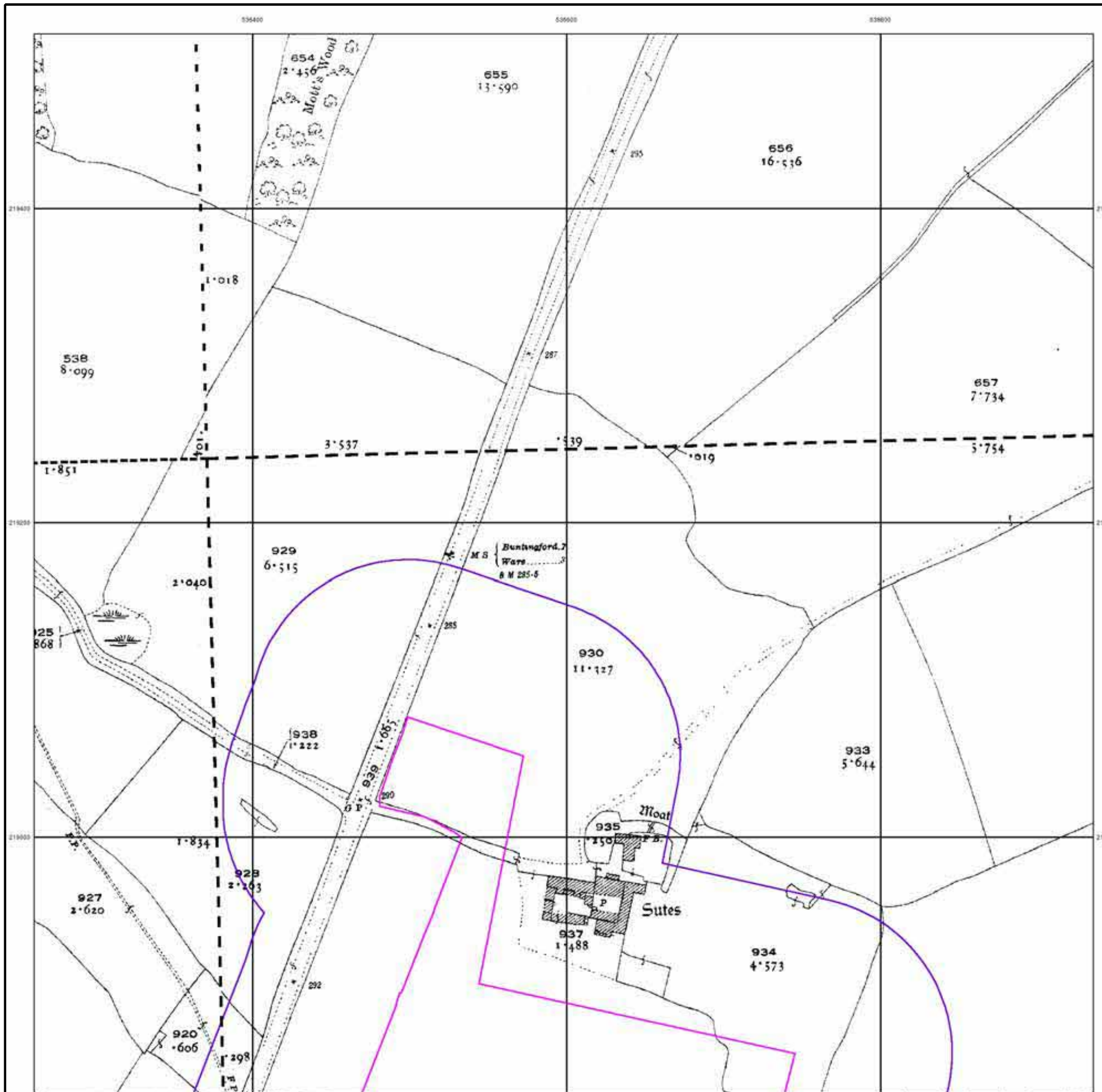


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



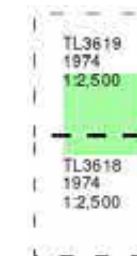
Ordnance Survey Plan

Published 1974

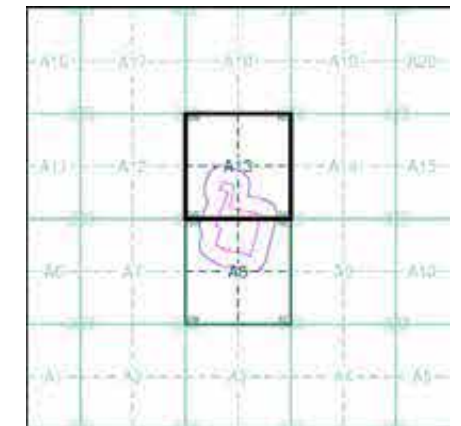
Source map scale - 1:2,500

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

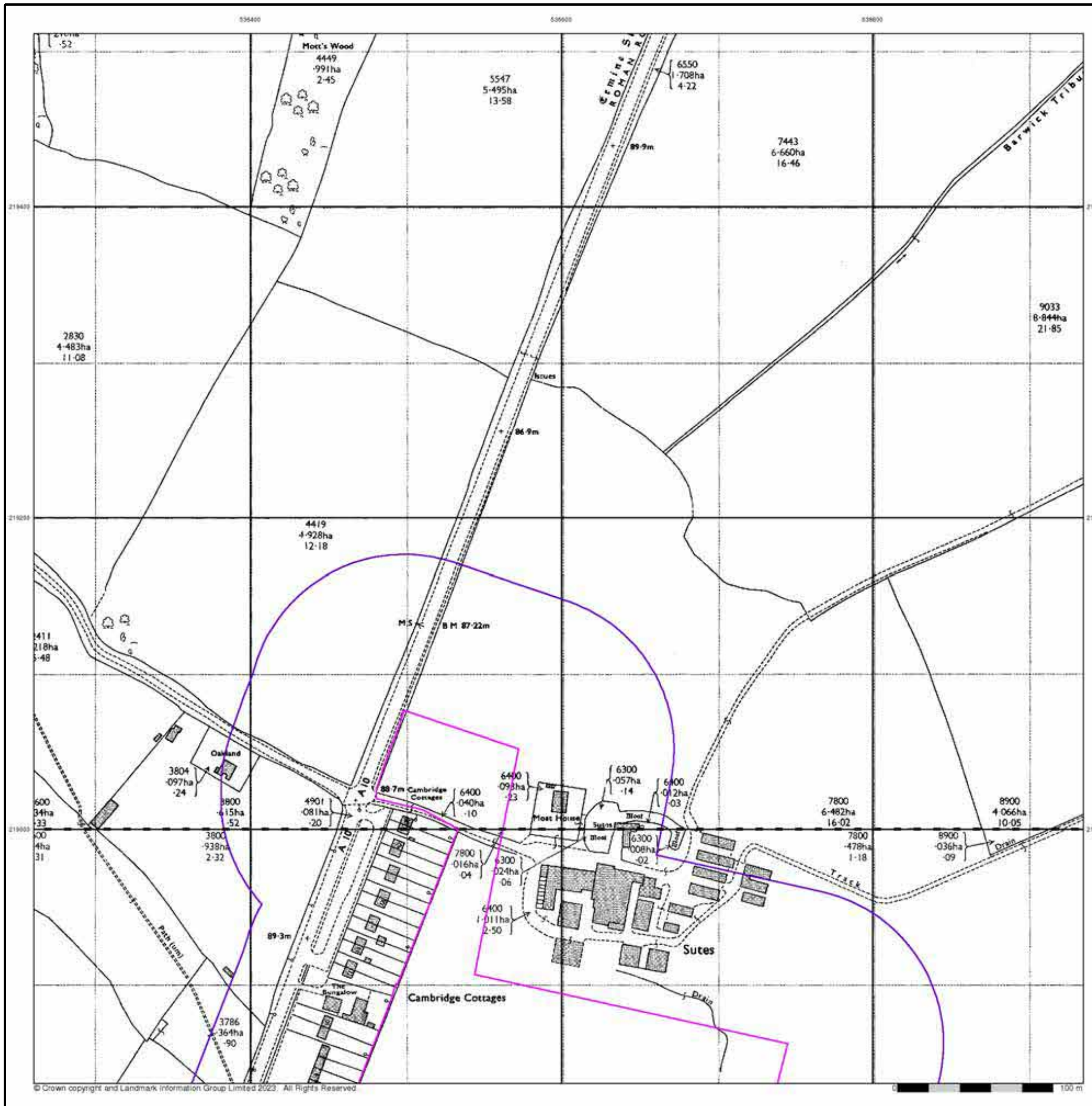


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

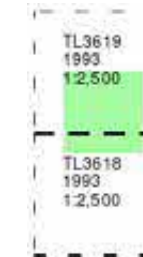
Puller Memorial School, High Cross, Ware



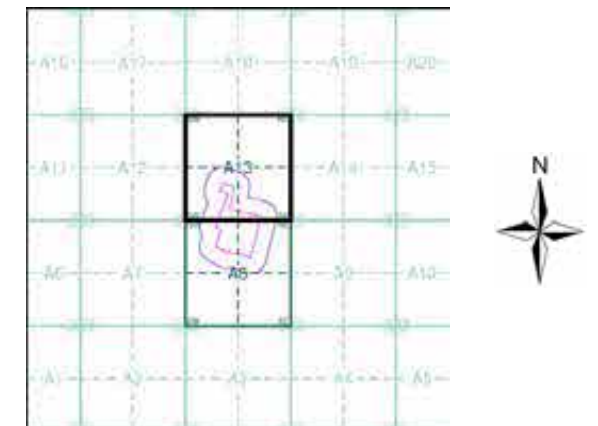
Large-Scale National Grid Data Published 1993 Source map scale - 1:2,500

'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

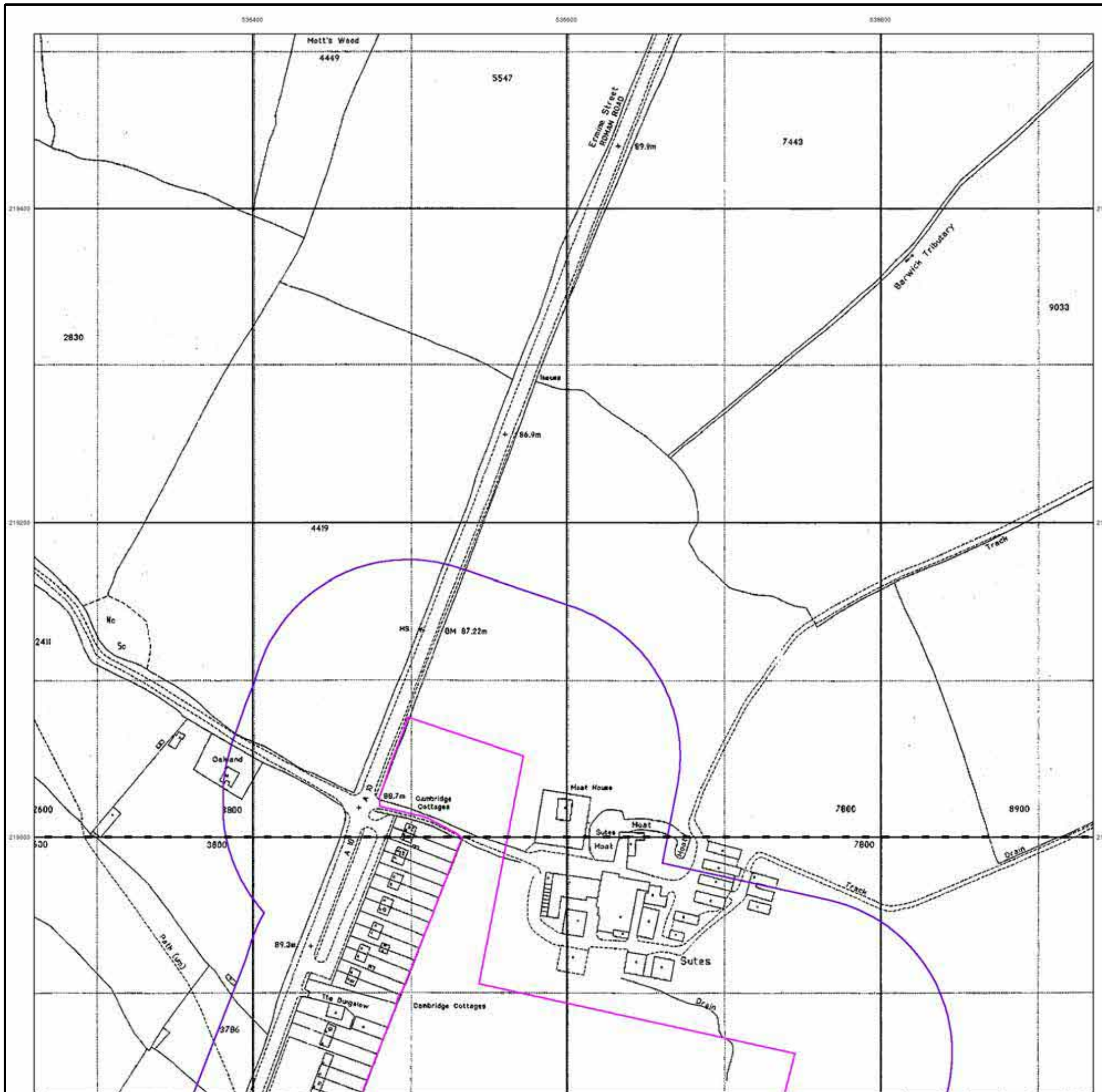


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



Large-Scale National Grid Data

Published 1993

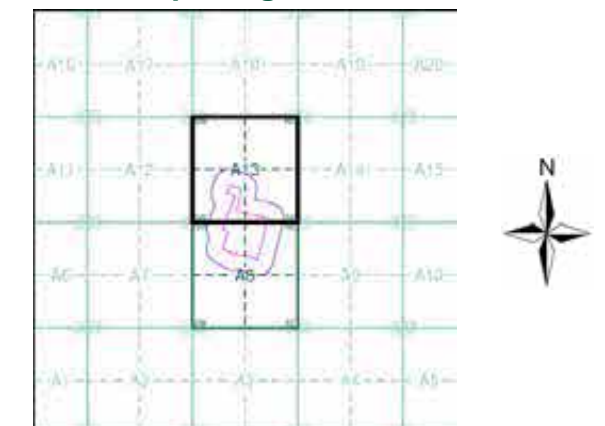
Source map scale - 1:2,500

'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

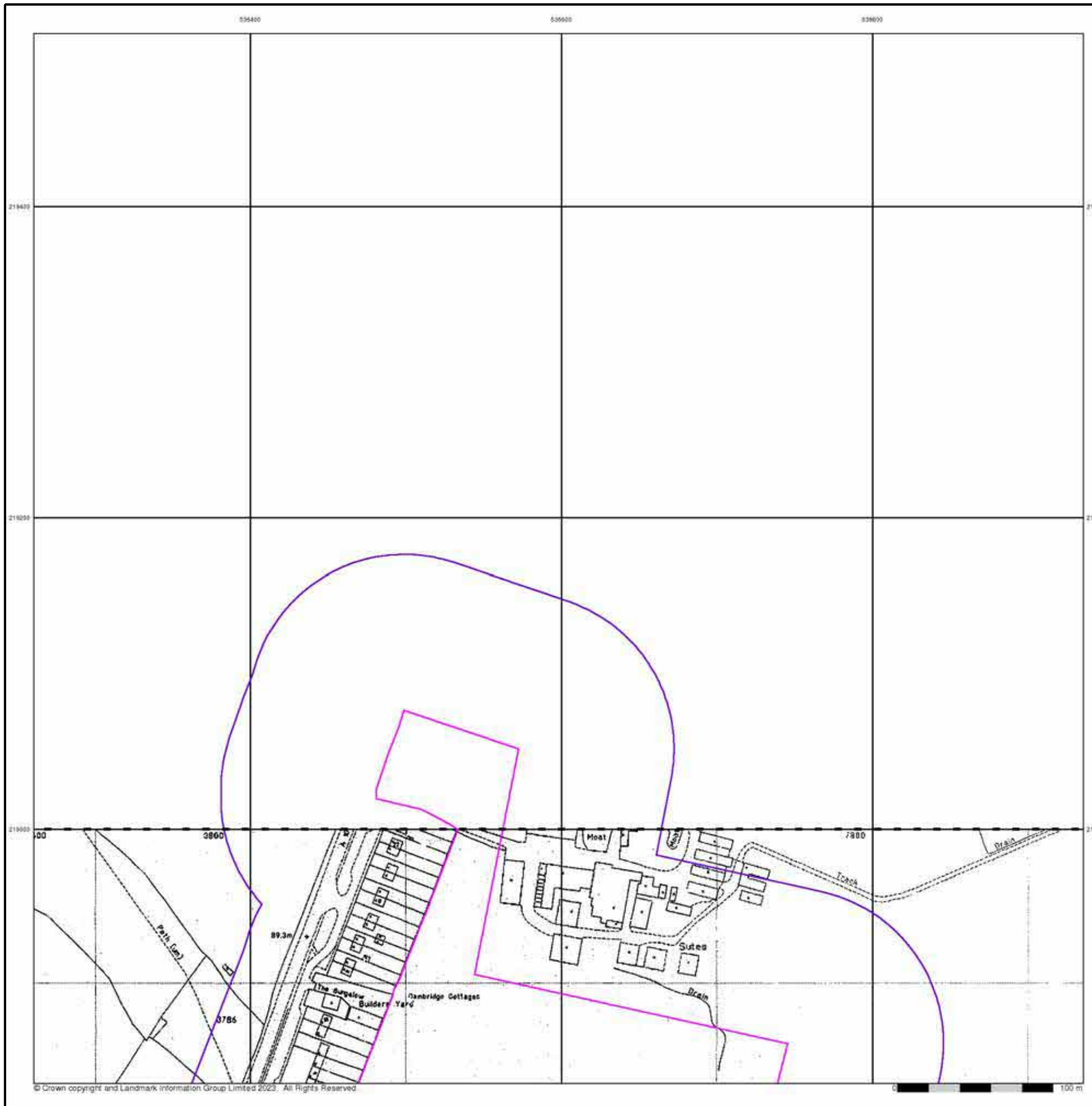


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware

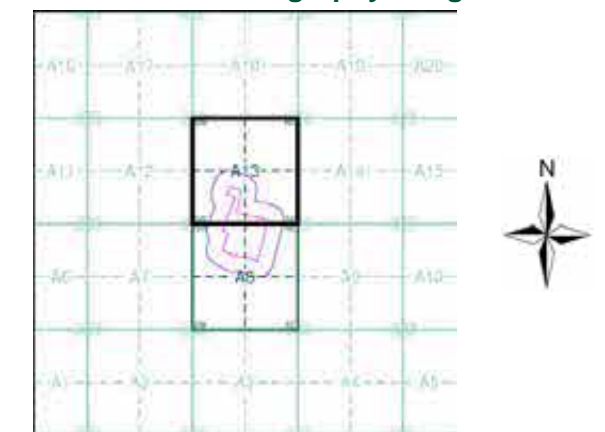


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277,EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 100

Site Details

Puller Memorial School, High Cross, Ware



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
	Coppice		Bracken
	Heath		Rough Grassland
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	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 <small>Shown only when not coincident with other boundaries</small>		
	Civil Parish <small>Shown alternately when coincidence of boundaries occurs</small>		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

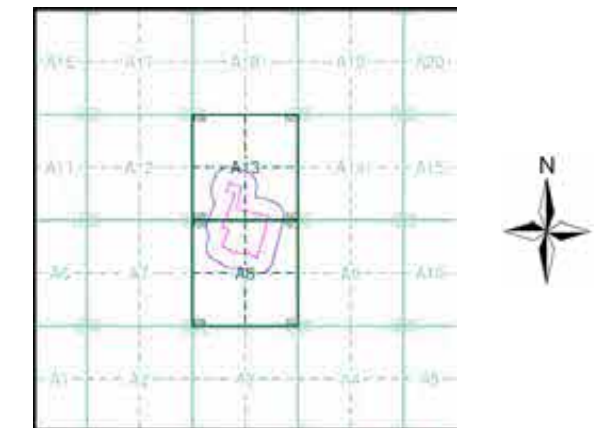
1:10,000 Raster Mapping

	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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:10,560	1883 - 1884	2
Hertfordshire	1:10,560	1899	3
Hertfordshire	1:10,560	1923 - 1925	4
Hertfordshire	1:10,560	1938 - 1950	5
Hertfordshire	1:10,560	1946	6
Historical Aerial Photography	1:10,560	1949	7
Ordnance Survey Plan	1:10,000	1960	8
Ordnance Survey Plan	1:10,000	1977 - 1978	9
10K Raster Mapping	1:10,000	1999	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2023	12

Historical Map - Slice A

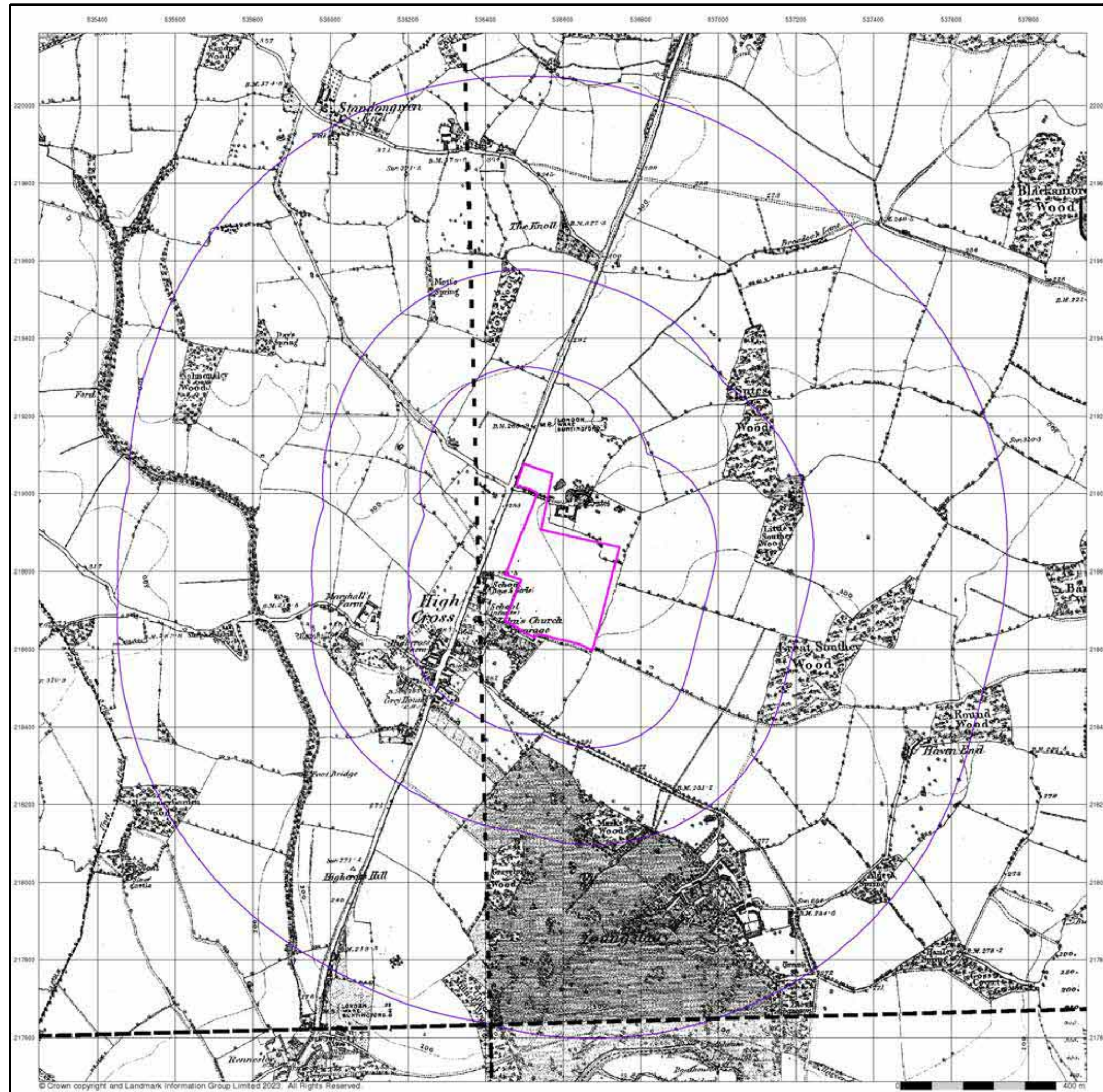


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



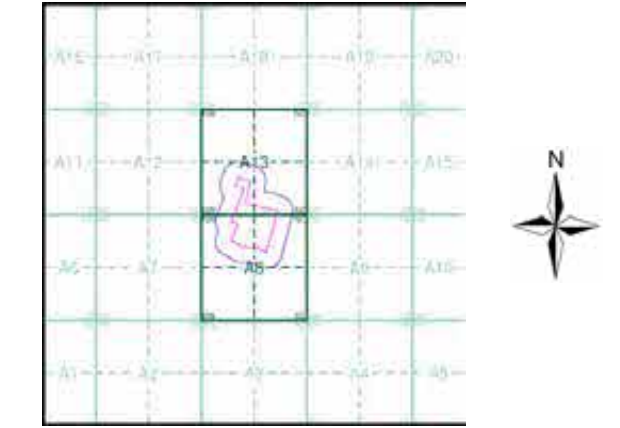
Hertfordshire
Published 1883 - 1884
Source map scale - 1:10,560

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)

02100 1884 1:10,560	02200 1883 1:10,560
02900 1884 1:10,560	03000 1883 1:10,560

Historical Map - Slice A

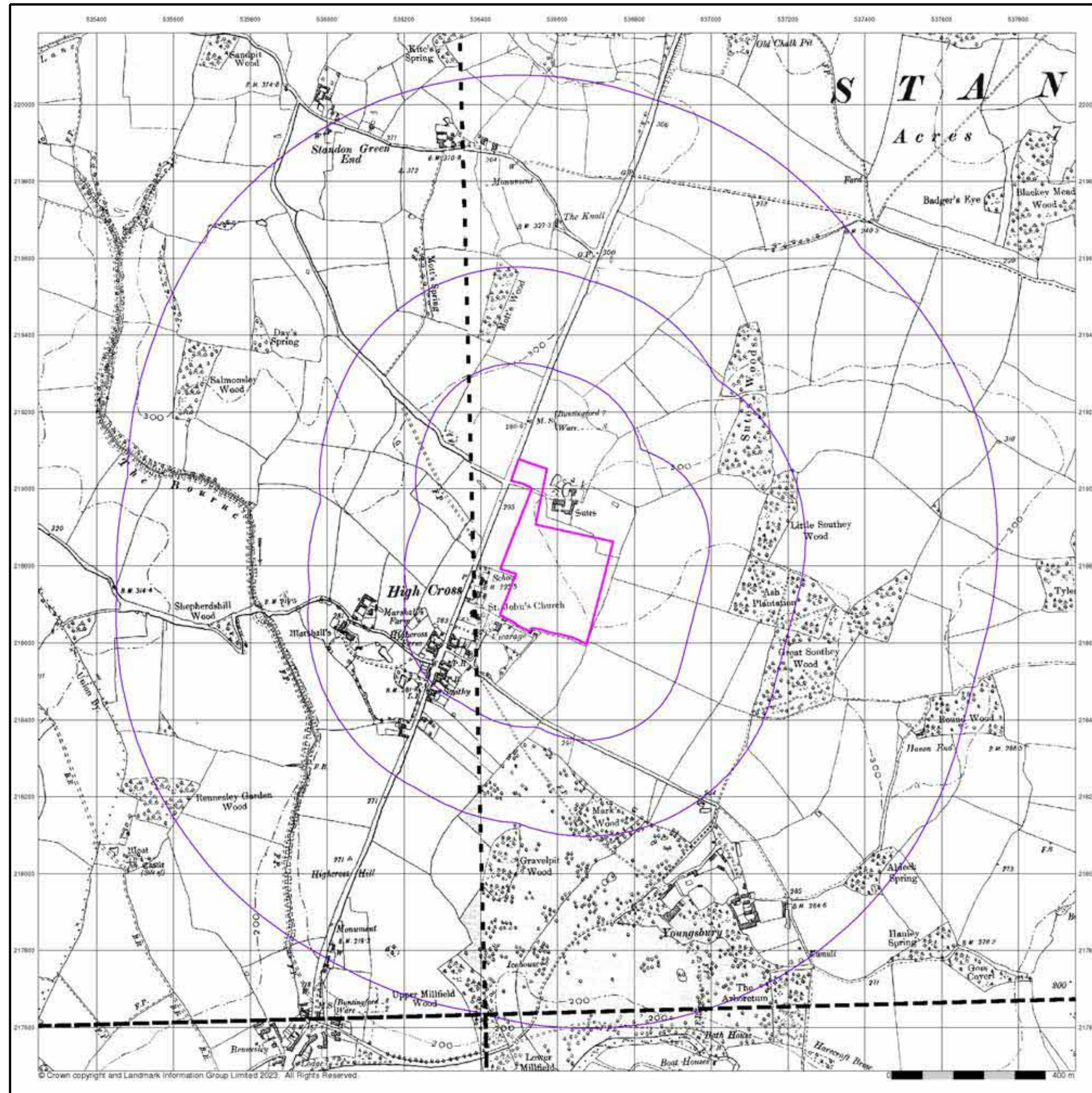


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



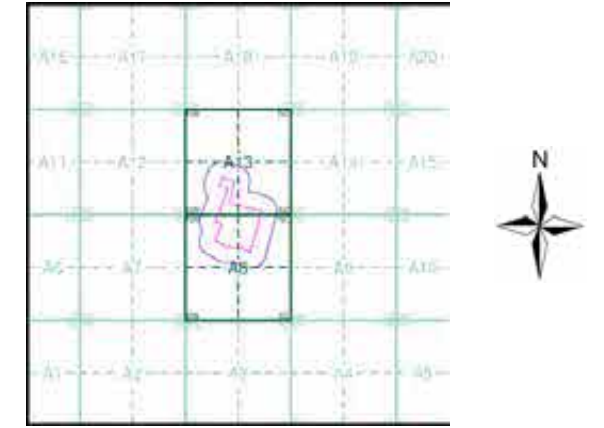
Hertfordshire
Published 1899
Source map scale - 1:10,560

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)

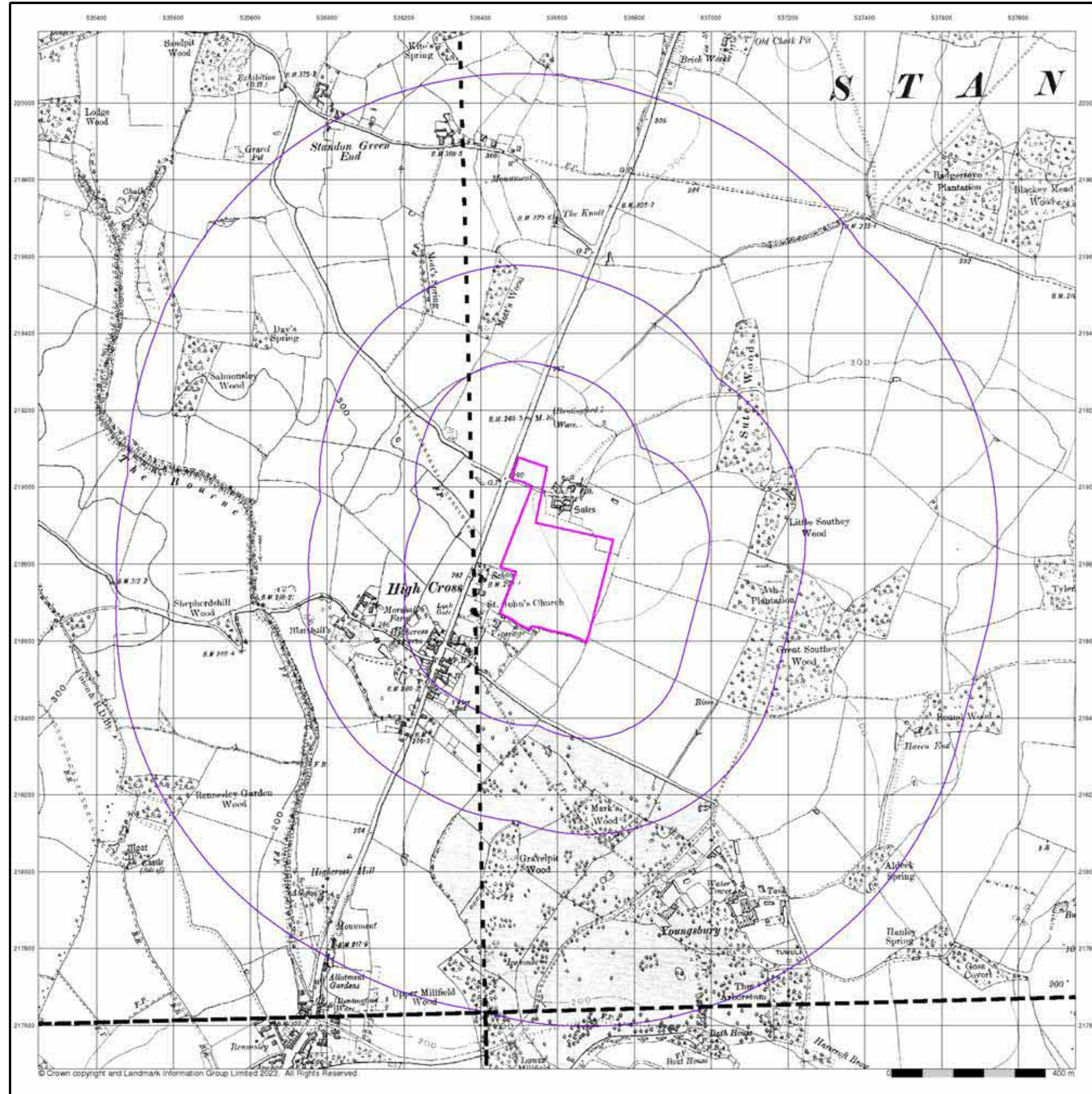
021SE 1899 1:10,560	022SW 1899 1:10,560
029NE 1899 1:10,560	030NW 1899 1:10,560

Historical Map - Slice A



Order Details
 Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details
 Puller Memorial School, High Cross, Ware



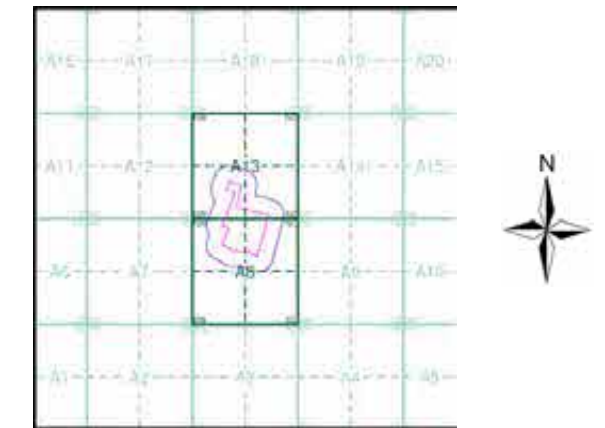
Hertfordshire
 Published 1923 - 1925
 Source map scale - 1:10,560

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)

021SE 1925 1:10,560	022SW 1925 1:10,560
029NE 1925 1:10,560	030NW 1923 1:10,560

Historical Map - Slice A

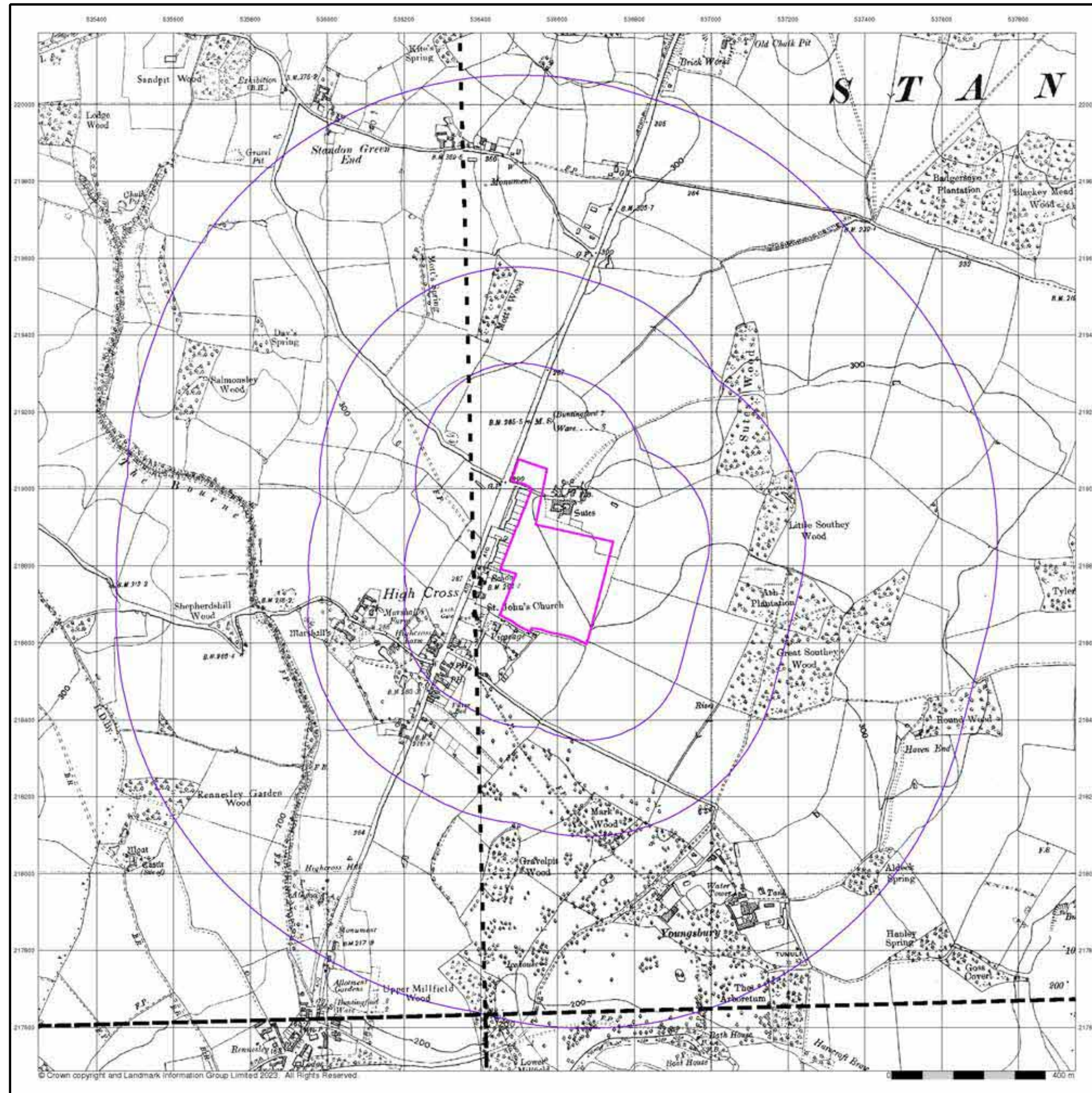


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



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Hertfordshire

Published 1938 - 1950

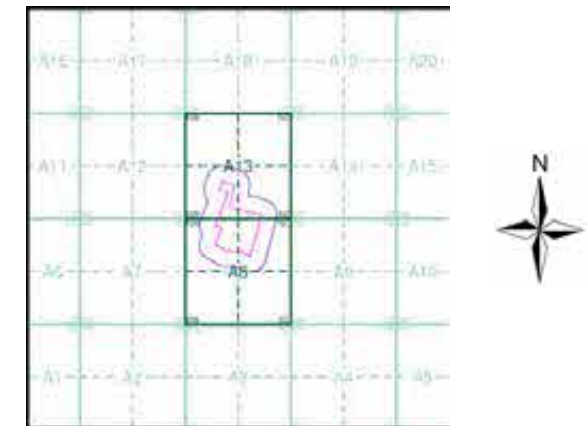
Source map scale - 1:10,560

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)

021SE 1950 1:10,560	022SW 1947 1:10,560
029NE 1938 1:10,560	030NW 1950 1:10,560

Historical Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware

Hertfordshire

Published 1946

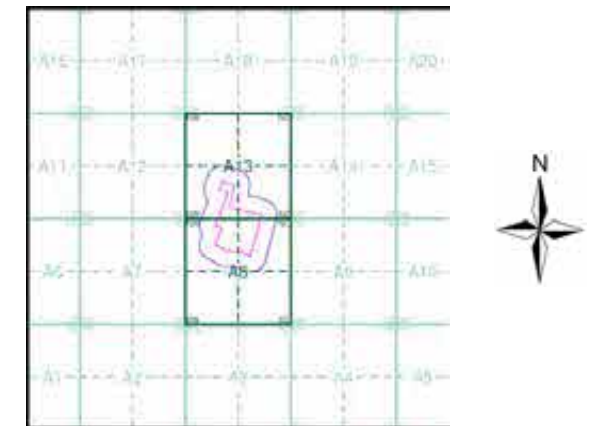
Source map scale - 1:10,560

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)



Historical Map - Slice A

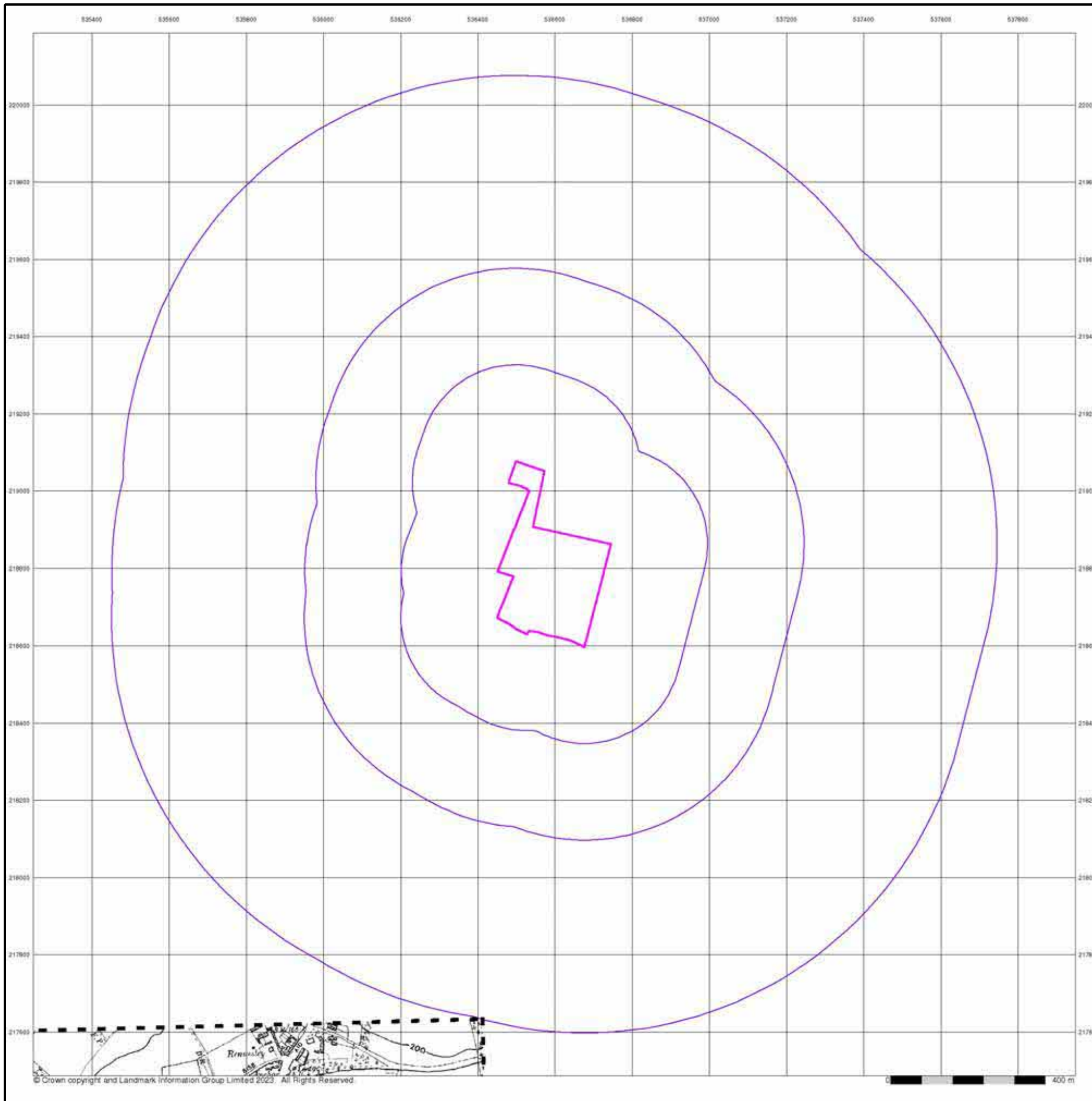


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



Historical Aerial Photography

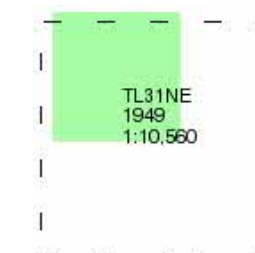
Published 1949

Source map scale - 1:10,560

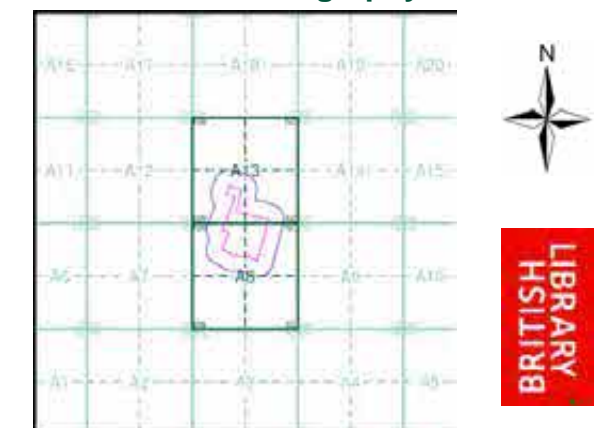
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A

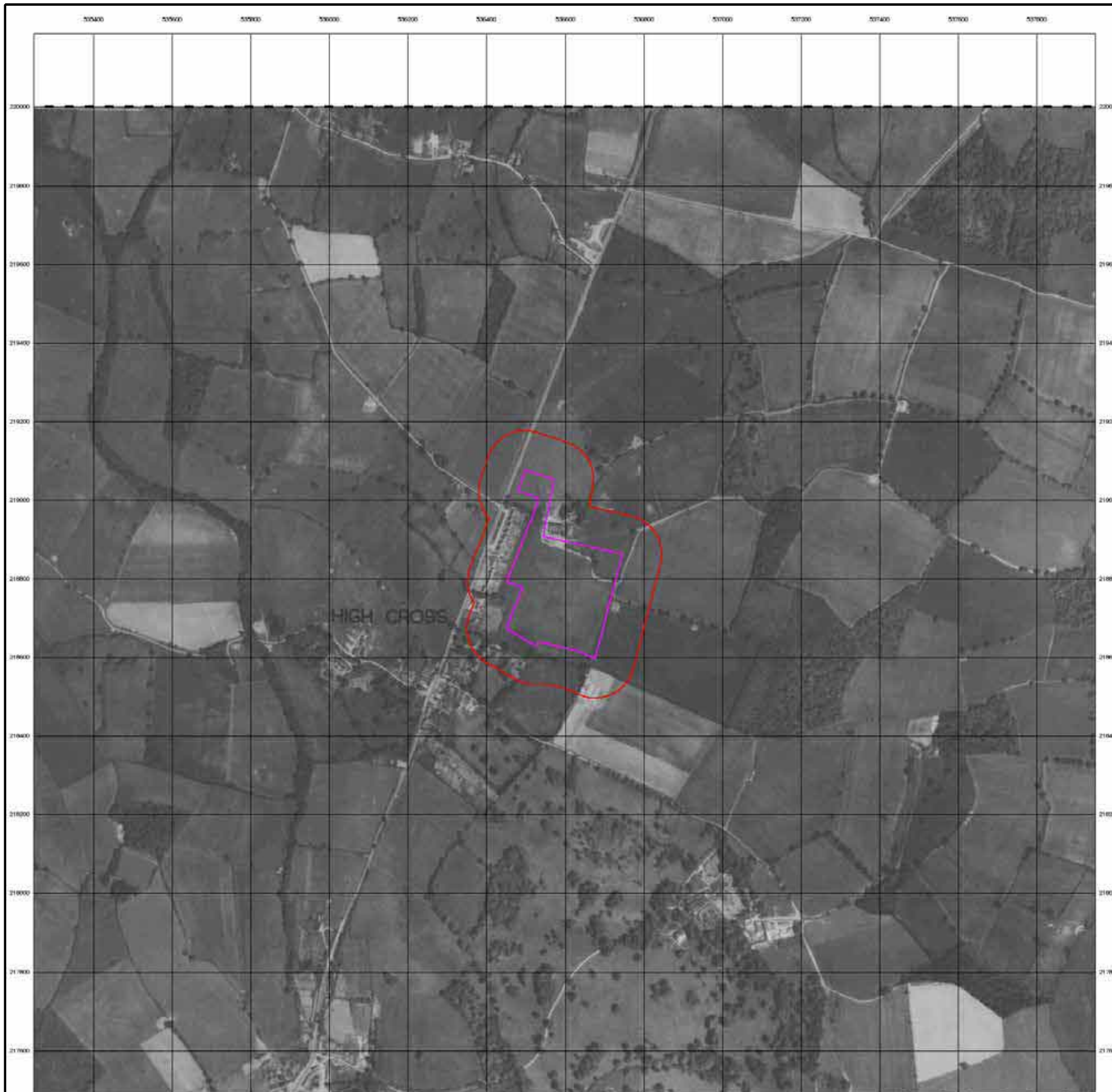


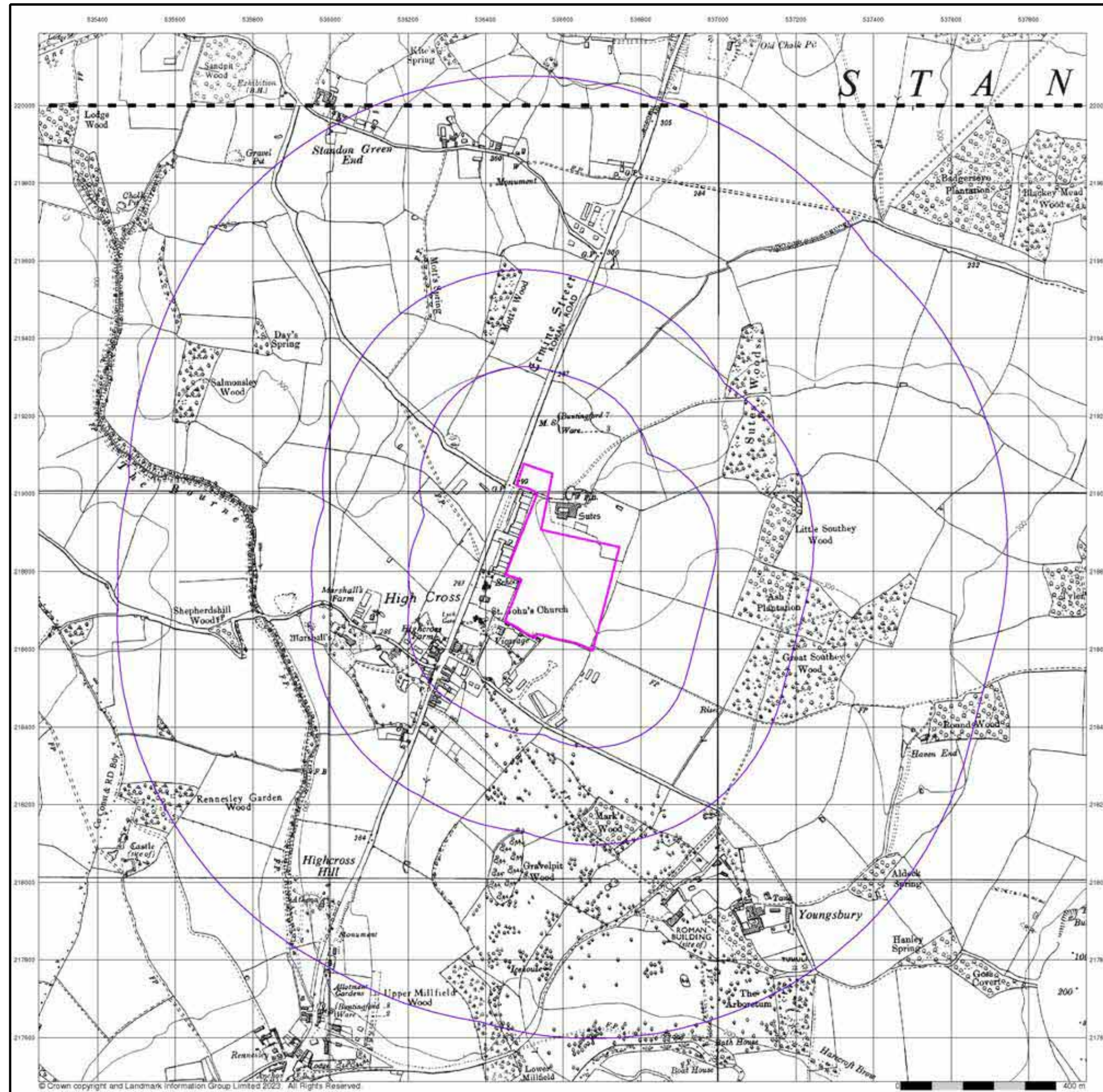
Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware





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Ordnance Survey Plan

Published 1960

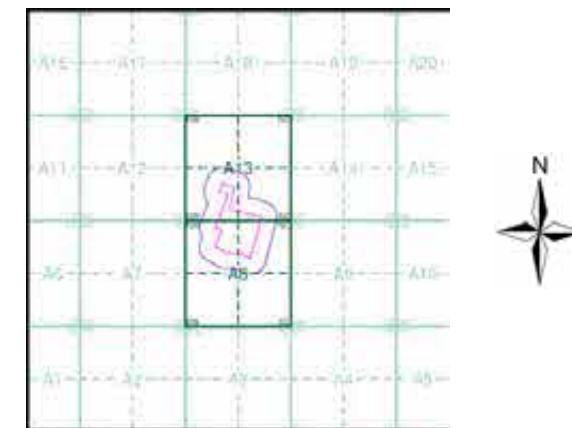
Source map scale - 1:10,000

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)

TL32SE	1960	1:10,560
TL31NE	1960	1:10,560

Historical Map - Slice A

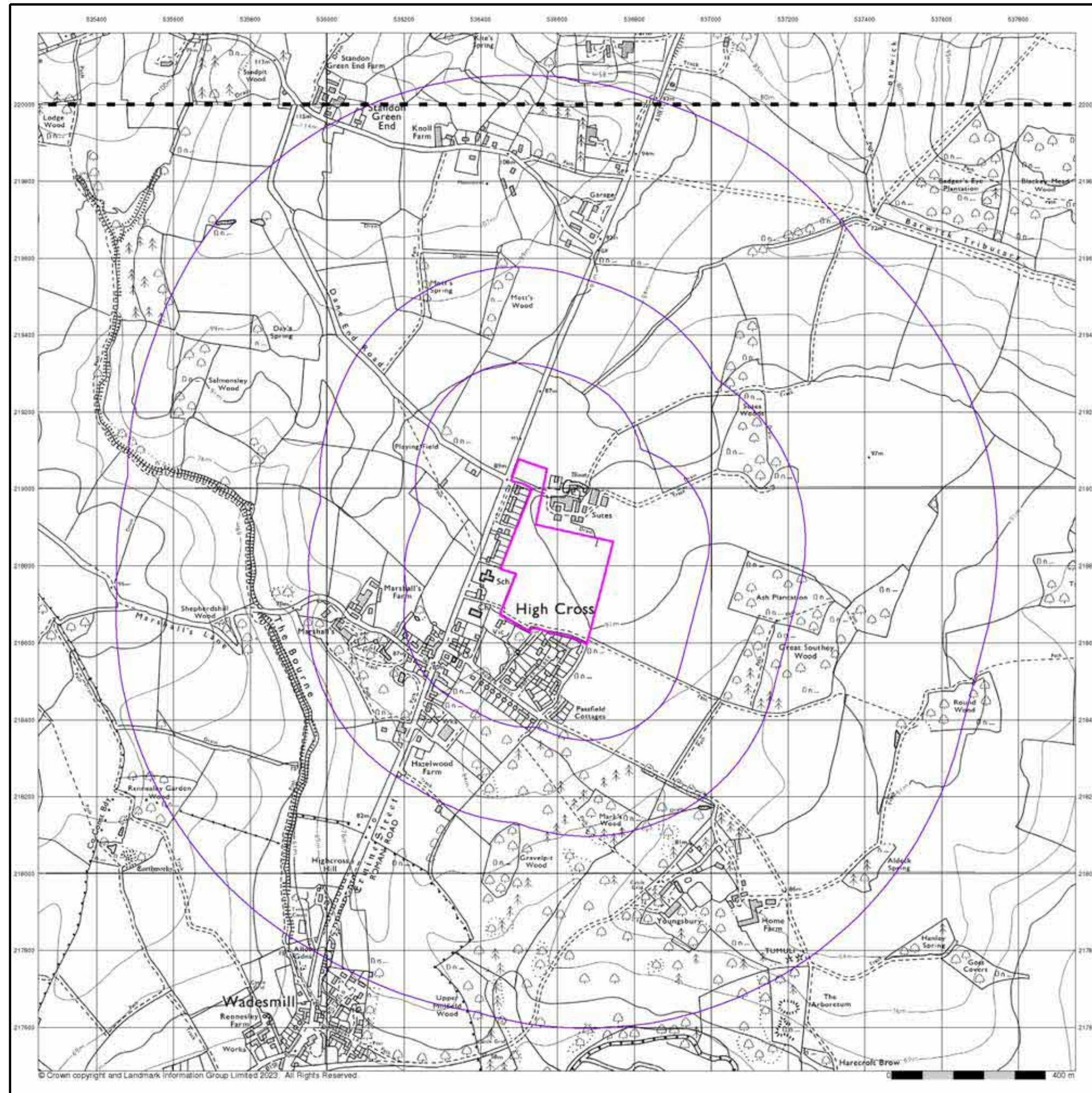


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



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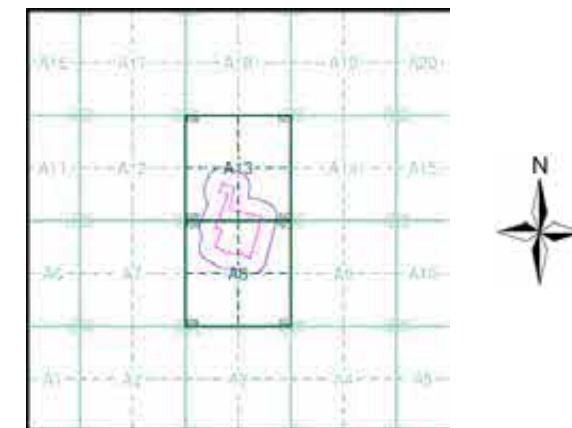
Ordnance Survey Plan Published 1977 - 1978 Source map scale - 1:10,000

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)

TL32SE	1978	1:10,000
TL31NE	1977	1:10,000

Historical Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware

10k Raster Mapping

Published 1999

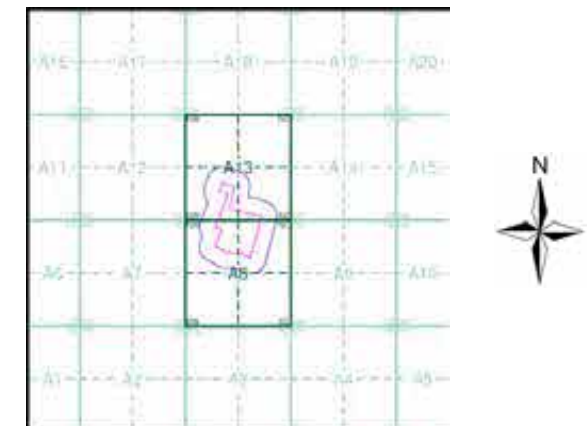
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

TL32SE	1999	1:10,000
TL31NE	1999	1:10,000

Historical Map - Slice A

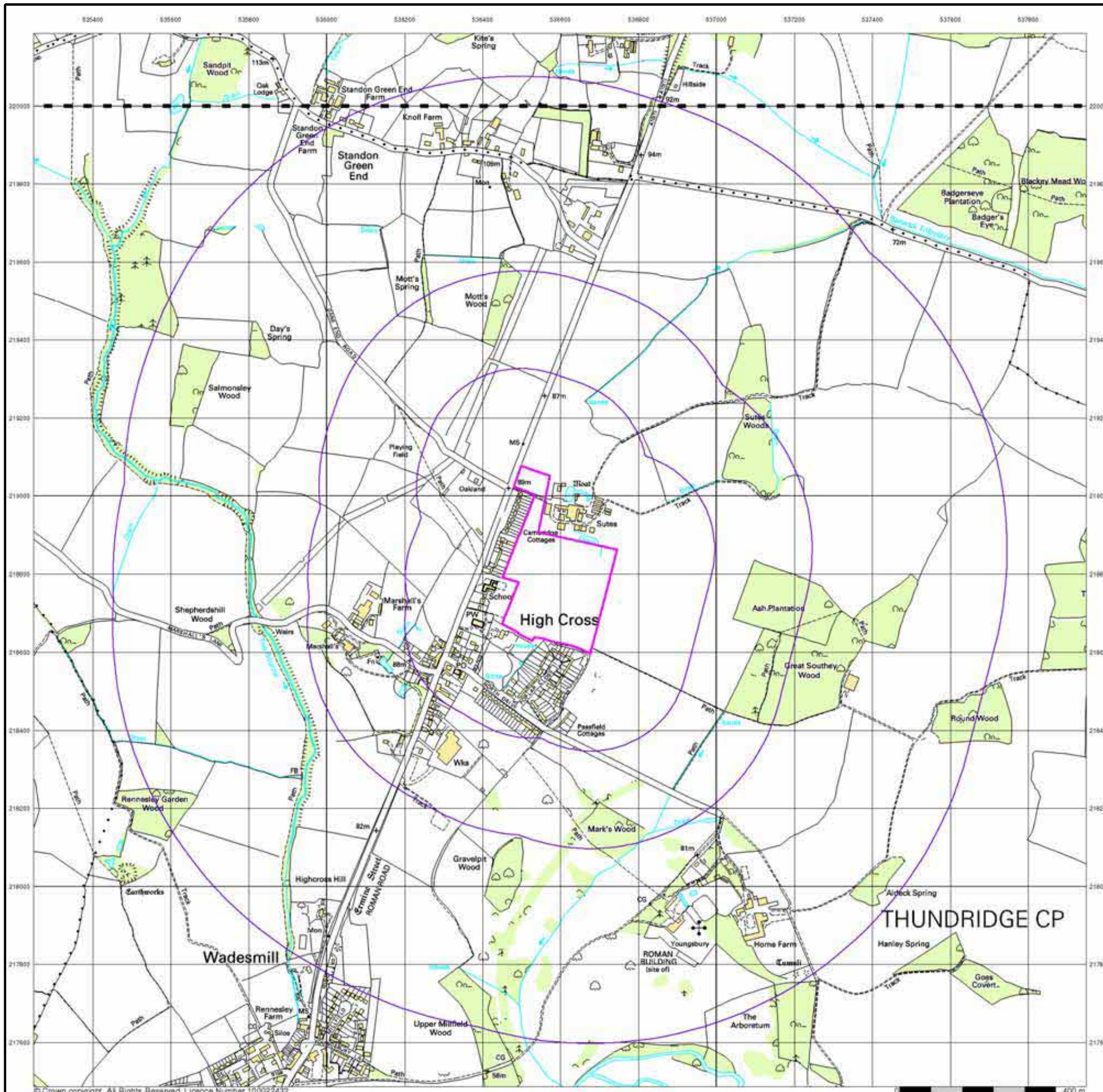


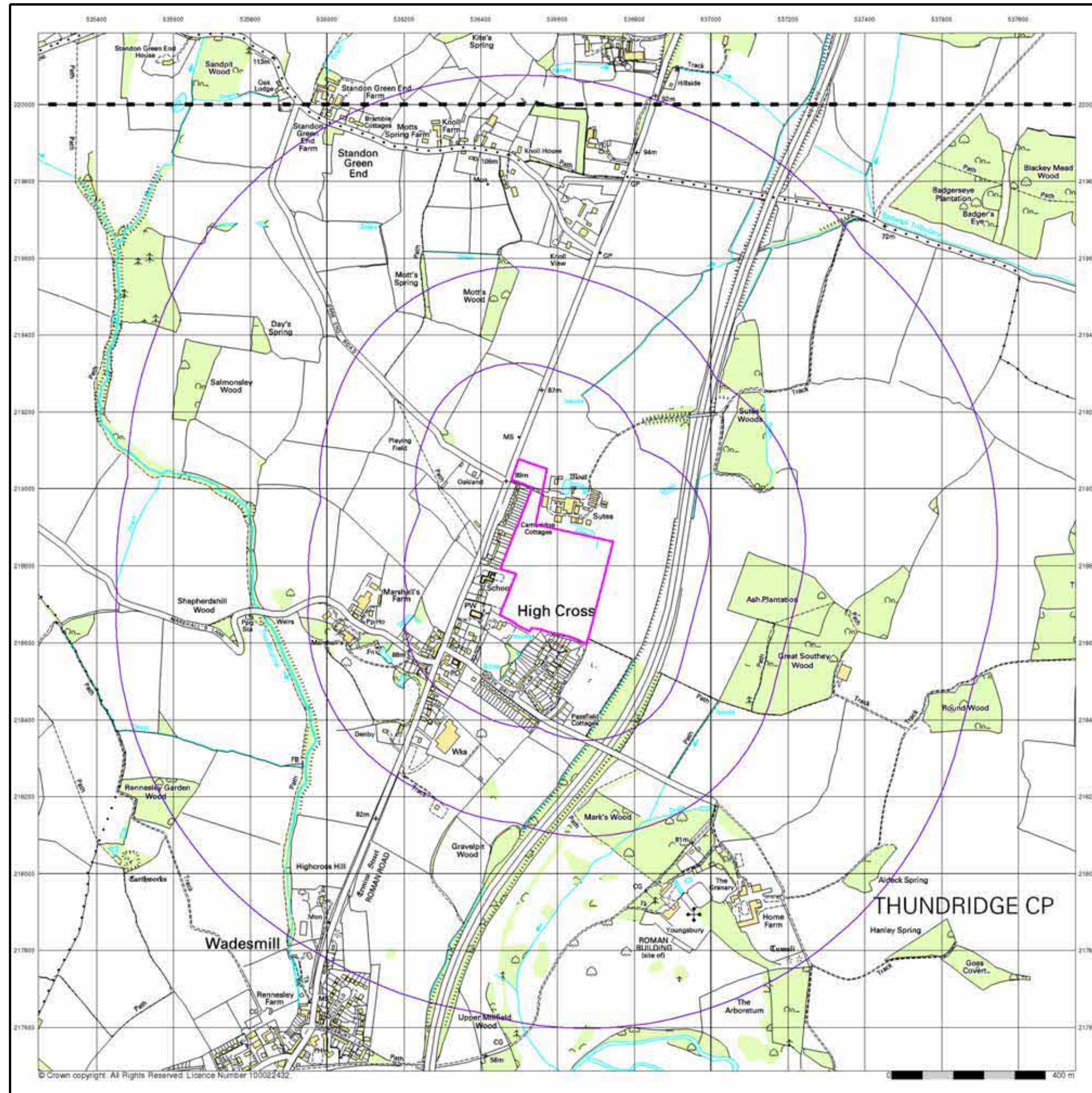
Order Details

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 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware





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10k Raster Mapping

Published 2006

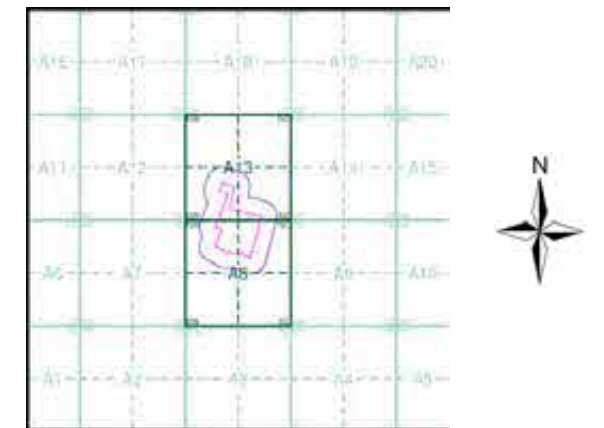
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

TL32SE	2006	1:10,000
TL31NE	2006	1:10,000

Historical Map - Slice A

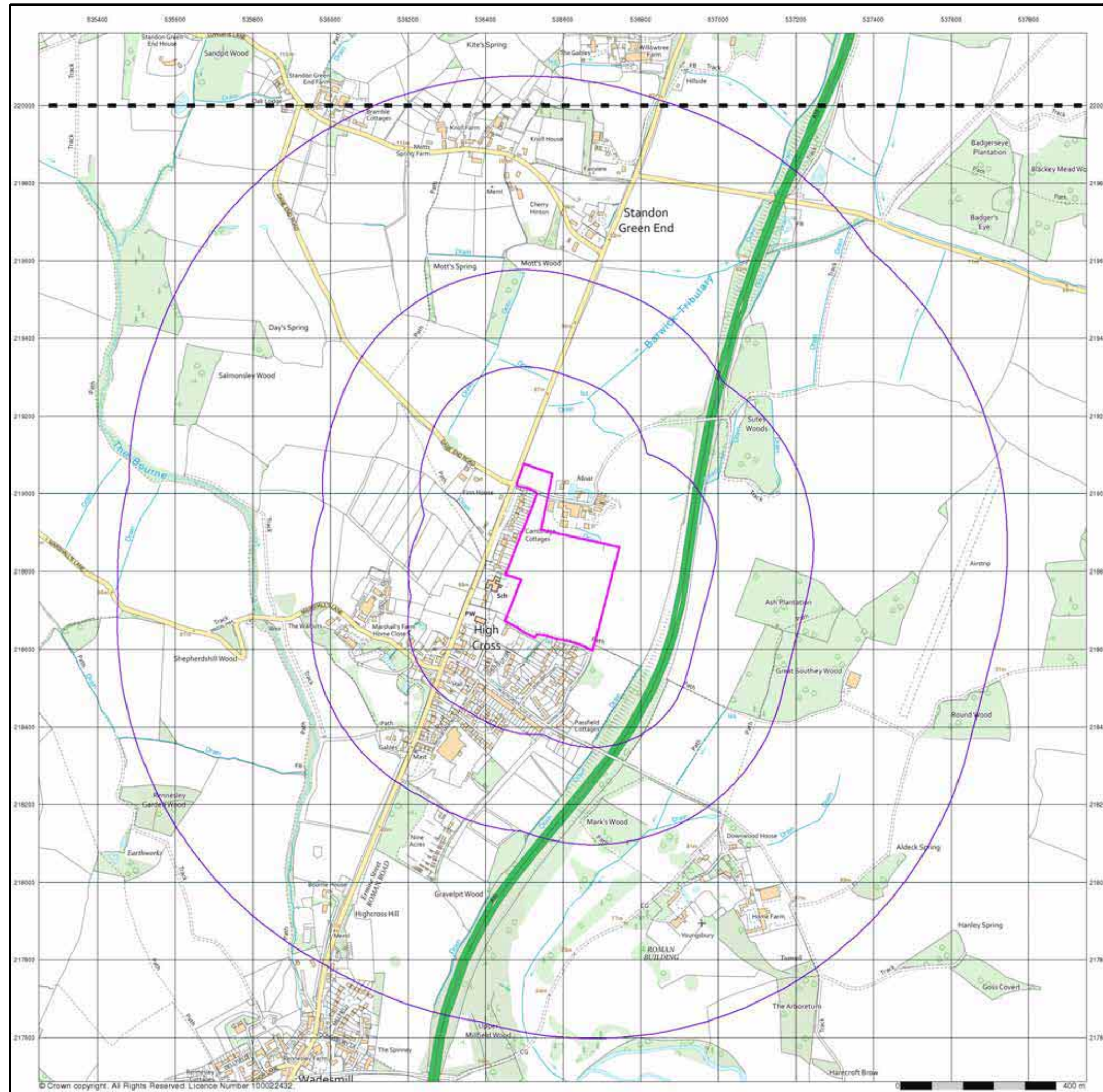


Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware



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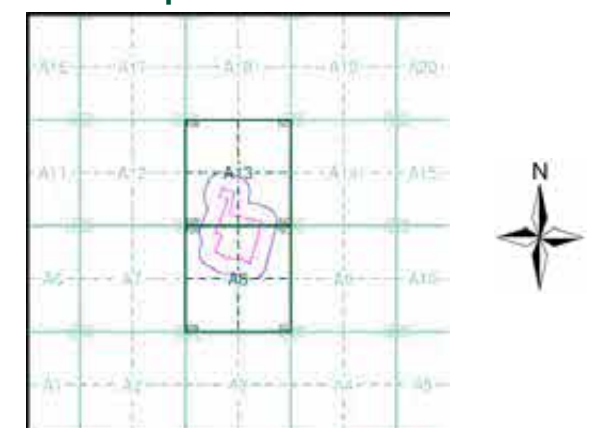
VectorMap Local
Published 2023
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TL32SE	2023	Variable
TL31NE	2023	Variable

Historical Map - Slice A



Order Details

Order Number: 313993346_1_1
 Customer Ref: 7277_EC,AR,DS
 National Grid Reference: 536580, 218830
 Slice: A
 Site Area (Ha): 7.3
 Search Buffer (m): 1000

Site Details

Puller Memorial School, High Cross, Ware

Appendix 5 – Comparison of Consequences Against Probability

		Consequence (Severity of Linkage)			
		Severe (S)	Moderate (Mo)	Mild (Mi)	Negligible (N)
Probability (Likelihood of linkage from)	Highly Likely (HL)	Very High Risk (VH)	High Risk (HR)	Moderate Risk (MR)	Moderate/Low Risk (MR-LR)
	Likely (L)	High Risk (HR)	Moderate Risk (MR)	Moderate/Low Risk (MR-LR)	Low Risk (LR)
	Unlikely (U)	Moderate Risk (MR)	Moderate/Low Risk (MR-LR)	Low Risk (LR)	Negligible Risk (NR)
	Negligible (N)	Moderate/Low Risk (MR-LR)	Low Risk (LR)	Negligible Risk (NR)	Negligible Risk (NR)

This table is to provide reference information in conjunction with the GEL Conceptual Model attached within the Hazard Risk Assessment section of this report, Table 4 – Preliminary Conceptual Site Model.

Very High Risk (VH)

There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is happening currently.

Urgent investigation and remediation are likely to be required and advised.

High Risk (HR)

Harm is likely to arise to a designated receptor from an identified hazard.

Urgent investigation is required and remedial works are likely necessary in both the short to long term.

Moderate Risk (MR)

It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.

Investigation is required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.

Low Risk (LR)

It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Limited investigation recommended.

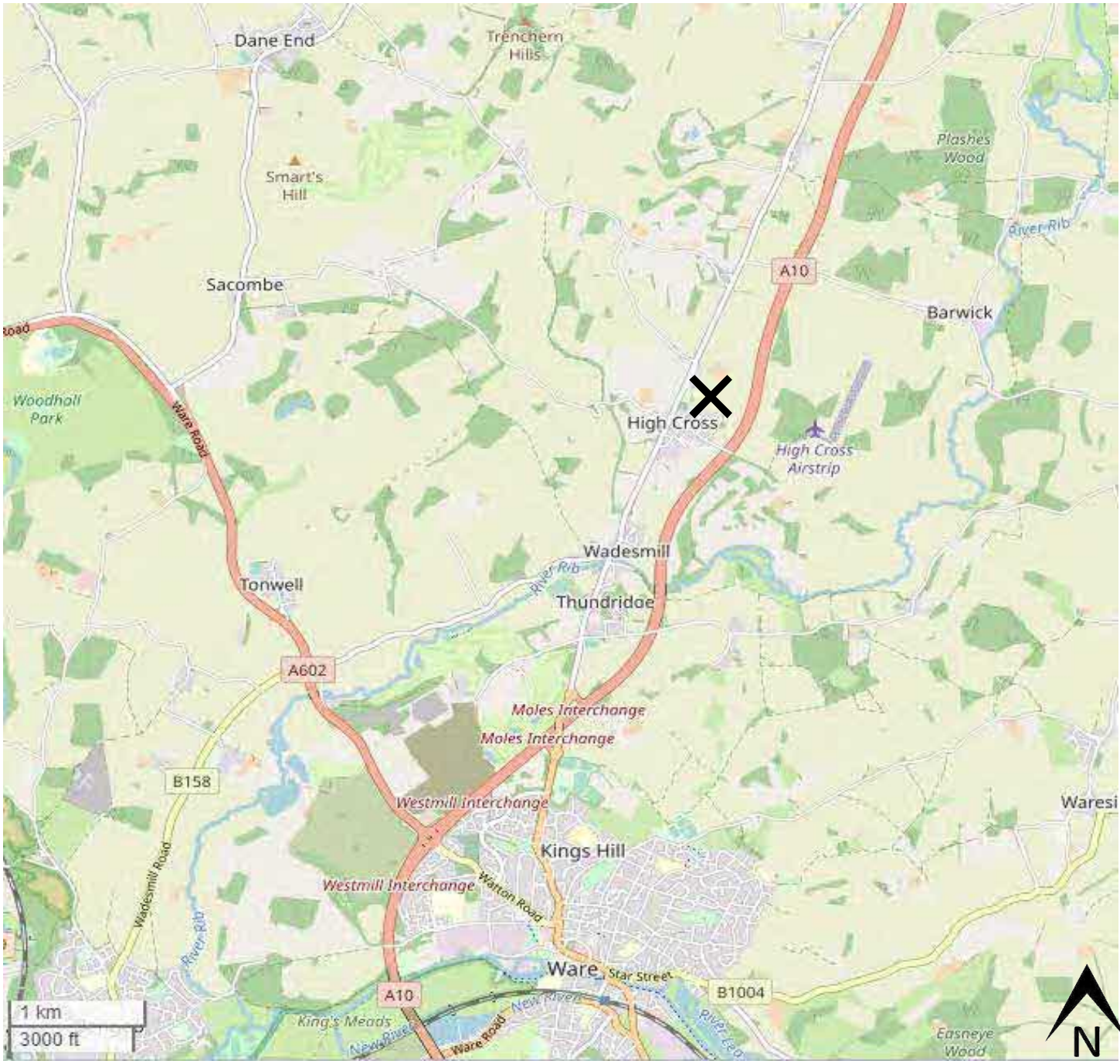
Negligible Risk (NR)

There is a minimal possibility that harm could arise to a receptor. In the event of such harm being realised it is high likely to not be severe. Investigation not deemed necessary.

Appendix 6 - Drawings

Site Location Plan – Drawing ref. 7277,EC,AR,DS/001/Rev1

Site Plan – Drawing ref. 7277,EC,AR,DS/002/Rev1



LEGEND

X Site Location

SOURCE

[© OpenStreetMap contributors](#)

PROJECT

Land East of High Road, High Cross SG11 1BE

TITLE

Site Location Plan

DRAWING NUMBER

7277,EC,AR,DS/001/Rev1

SCALE

As marked

DATE

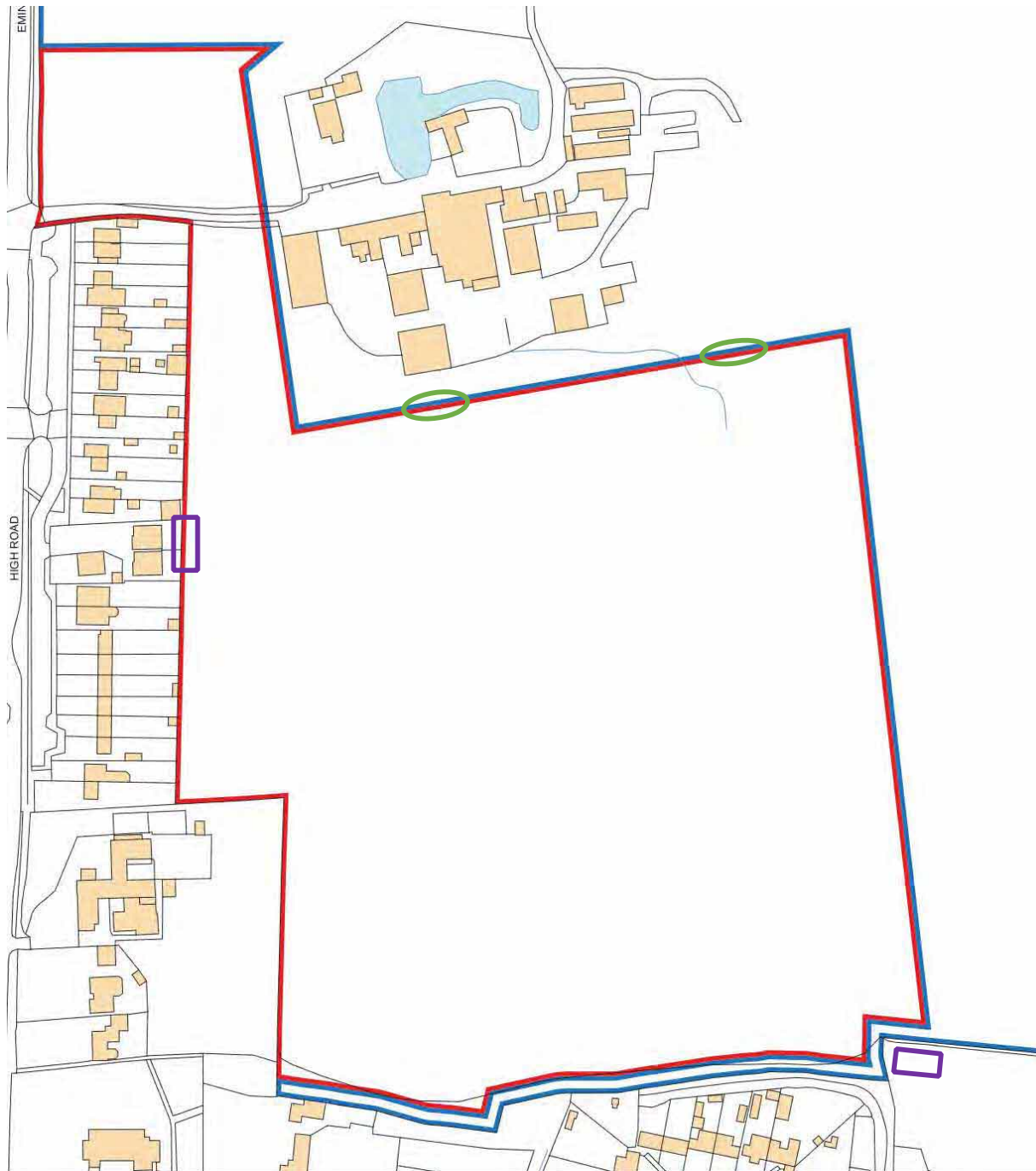
13/11/2023

DRAWN BY

AH

CHECKED BY

TP



LEGEND

- Site boundary
- Potential Asbestos (previously identified)
- Areas of burning (previously identified)

SOURCE

Client Supplied Background Image

PROJECT

Land East of High Road, High Cross SG11 1BE

TITLE

Site Plan

DRAWING NUMBER

7277,EC,AR,DS/002/Rev1

SCALE

NTS

DRAWN BY

AH

DATE

13/11/2023

CHECKED BY

TP



Appendix 7 - Photographs

Photograph 1



Photograph 2



DESCRIPTION

Photograph 1

View to North West of Site

Photograph 2

View to North West of Site

Photograph 3

View to South of Site

Photograph 3



Photograph 4



Photograph 4

View along Western Boundary

PROJECT

Land East of High Road, High Cross
SG11 1BE

PROJECT NUMBER

7277,EC,AR,DS

TITLE

Selected Photographs Relating To
Site Walkover

DATE

13/11/2023

PAGE NO.

1 of 2

Photograph 5



Photograph 6



DESCRIPTION

Photograph 5
View North along Western Boundary

Photograph 6
View North East along Western
Boundary

Photograph 7
View to West of Site from South

Photograph 8
View along Southern Site Boundary

Photograph 7



Photograph 8



PROJECT

Land East of High Road, High Cross
SG11 1BE

PROJECT NUMBER

7277,EC,AR,DS

TITLE

Selected Photographs Relating To
Site Walkover

DATE

13/11/2023

PAGE NO.

2 of 2



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Geotechnical.



Environmental.



Knotweed.

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