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The Geo-Environmental Service Provider

GEO-ENVIRONMENTAL DESK STUDY REPORT
LAND NORTH OF ORTON ROAD
WARTON

Prepared for: Richborough Estates Limited, Michael Ensor Caton and Andrew Norman Caton

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ASL
Holly Farm Business Park
Honiley
Warwickshire
CV8 1NP

T: +44(0)1926485508
F: +44(0)1926485507
E: info@aslenvironmental.co.uk
W: www.aslenvironmental.co.uk

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1 INTRODUCTION

In January 2025, ASL were instructed by Richborough Estates Limited to undertake a desk study at the site known as Land North of Orton Road, Warton. The instruction to proceed with these works was received from Richborough Estates Limited by email dated 6th January 2025 and Purchase Order Number 2912.

The purpose of this desk study is to determine any potential environmental and geotechnical risk issues and liabilities pertaining to the future development of the site. It is understood that the proposed development comprises the outline planning application for the construction of up to 110 dwellings, with access, landscaping, sustainable drainage features, and associated infrastructure. All matters are reserved except for primary vehicular access from Church Road. A Framework Plan is presented in Appendix I.

This assessment uses available information on the site and the surrounding area sourced from environmental databases maintained by the Environment Agency (EA), historical ordnance survey maps, a site walkover survey, a review of the site's environmental setting and an appraisal of the current and former land uses with a view to determining the potential for contamination to be present at the site. This report presents the findings of this assessment together with the factual data sourced during the course of these works which are appended for completeness.

It should be noted that this assessment cannot determine the actual levels of contamination present at the site only the potential for contamination to be present. Further to this, this report cannot determine the geotechnical properties of the ground conditions only the likely constraints. The general notes section should be consulted in relation to the limitations of this report.

This report has been prepared for the sole benefit of the Clients, Richborough Estates Limited, Michael Ensor Caton and Andrew Norman Caton, and their representatives and agents. The report has been written based on the results of data searches and site conditions encountered at the time of the assessment. Future changes in legislation and advances in current best practises or provision of more detailed design proposals will result in this report requiring review and possible further assessment after the date of issue. The general notes section within this report should be noted in relation to the limitations of this assessment.

2 THE SITE

The site is located directly to the north of Orton Road and to the south-east of Church Road and approximately 0.5km south-west of the Warton village centre. The site can be located approximately by National Grid Reference SK 280 032 as shown on Figure 1.

The site comprises an approximately triangular shaped plot of land with maximum dimensions of approximately 380m by 260m with the long axis aligned approximately south-west to north-east. The site is topographically highest in the west and generally slopes down to the east with a maximum change in elevation of approximately 10m present across the site.

The site comprises a single agricultural field, devoid of above ground structures, which was planted with crops during the time of the site walkover. On the eastern boundary there is a small pond that is overgrown with vegetation. Limited areas of dense scrub vegetation were also noted along the northern boundary and at the western corner of the site.

The boundaries of the site are generally formed by mature hedgerows locally including large mature trees along the north-eastern, northern and southern boundaries. The eastern and south-eastern boundary is marked by an area of light scrub and newly planted trees and a low wooden post and rail fence associated with the residential development to the east.

Access to the site is via a metal six bar gate located off Orton Road in the south-eastern corner. Pedestrian access to the site can also be gained from the residential development to the east.

The general site layout is presented as Figure 2. Selected photographs from the site walkover are presented in Appendix II.

The site is bound to the east by residential dwellings, to the north-east by a recreational ground, to the north by Church Road with residential dwellings, farm buildings and undeveloped agricultural land beyond and to the south by Orton Road with undeveloped agricultural land beyond.

It is understood that the proposed development comprises the outline planning application for the construction of up to 110 dwellings, with access, landscaping, sustainable drainage features, and associated infrastructure. All matters are reserved except for primary vehicular access from Church Road. A Framework Plan is presented in Appendix I.

3 GEOLOGY

The British Geological Survey (BGS) Sheet No. 155 – Coalville (solid and Drift) and the BGS GeoIndex indicate the western portion of the site to be directly underlain by drift deposits comprising Head. This Head is generically described as poorly sorted and poorly stratified, angular rock debris and/or clayey hillwash and soil creep, mantling a hillslope and deposited by solifluction and gelifluction processes. Polymict deposit: comprises gravel, sand and clay depending on upslope source and distance from source' by the BGS. The thickness of this stratum is not defined by the BGS.

The majority of the drift deposits are indicated to be directly underlain by mudstones of the Helsby Sandstone Formation. Mudstones of the Helsby Sandstone Formation are also indicated to outcrop at the surface at the south-eastern corner of the site. The south-eastern portion of the drift deposits and the remainder of the site in the east are indicated to be directly underlain by sandstones of the Helsby Sandstone Formation. The Helsby Sandstone Formation is generally described as 'fine to medium grained, locally micaceous, cross-bedded and flat-bedded sandstones, weathering to sand near surface. Sandstones are of fluvial (sub-angular to sub-rounded grains) and aeolian (well-rounded grains) facies. Pebbles may be common, particularly near the base of the formation. Thin lenticular beds of reddish brown siltstone and mudstone occur and may be common in fining-upward sequences' by the BGS. The thickness of the Helsby Sandstone Formation is not defined by the BGS at the site. However, the BGS indicates this stratum to be of significant thickness in the vicinity of the site.

A fault striking approximately north-west to south-east with the downthrow to the north-east is present approximately 175m to the north-east. Solid geology of the Tarporley Siltstone Formation is indicated to be present at the surface beyond this fault to the north-east.

In addition to the published geology, it is anticipated that Topsoil and/or Made Ground will be present at the surface or beneath hardstandings across the site given its current layout.

There are two borehole records held by the BGS in the vicinity of the site with the first located approximately 40m to the west and the second located approximately 100m to the north. Specific detail on the ground conditions to approximately 143m bgl is not provided on the borehole record location to the west. From 143m to 152m bgl, the ground conditions are indicated to comprise 'Bunter Pebble Beds'. Between approximately 152m and 153.5m bgl, materials interpreted as the 'Hopwas Breccia' were encountered. Materials interpreted as Lower Coal Measures were then encountered to the completed depth of the borehole at approximately 204m bgl. The borehole record to the north indicates the ground conditions to comprise variable sand, red marl, gravel, pebbles and soft sandstones interpreted as the 'Bunter Pebble Beds' to a depth of approximately 168m bgl. Materials comprising 'red marl and bind' and 'grey bind' interpreted as 'Coal Measures' were encountered from 168m bgl to the completed depth of the borehole at approximately 170m bgl.

The site is indicated to be at no hazard from non coal mining activities. There are four BGS recorded mineral sites located within 0.5km of the site. The first listing relates to the opencast extraction of sand from the Helsby Sandstone Formation located approximately 285m to the north-east. The remaining listings relate to the open cast abstraction of sand or sand and gravel located at distances greater than approximately 365m from the site. Operations at all of these sites are indicated to have ceased.

The environmental database search indicates the site to be in a lower probability radon area and that no radon protective measures are necessary in the construction of new dwellings or extensions.

Further details are presented in Appendix III.

4 COAL MINING

The site is indicated to be in an area that may be affected by coal mining and a Coal Authority Consultants Coal Mining Report has been obtained and is presented in Appendix IV.

The Coal Authority Report indicates the site is in an area that may be impacted by workings on the Bench Coal to the west at a depth of approximately 209m bgl. The extraction thickness of the Bench Coal is indicated to be 122cm. The Bench Coal is indicated to dip to the north at approximately 9° and was last worked in 1954.

The report indicates the probability of unrecorded shallow workings to be present at the site is 'none'.

The site is indicated to be located in an area where a notice to withdraw support was given in 1946.

No other records that may impact on the site have been identified in the Coal Authority report including in relation to spine roads, mine entries, outcrops, faults, fissures and breaklines, opencast mines, Coal Authority managed tips, site investigations, remediated sites, coal mining subsidence, mine gas, mine water treatment, future underground mining, coal mining licenses, court orders or Section 46 notices.

5 HYDROGEOLOGY

The Head is classified by the EA as a Secondary Aquifer – Undifferentiated defined as '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 variable characteristics of the rock type'.

The Helsby Sandstone Formation is classified by the EA as a Principal Aquifer defined 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 site is not located in a Source Protection Zone (SPZ)

There is one abstraction from groundwater located within 1.0km from the site. This listing relates to the abstraction of groundwater for spray irrigation located approximately 895m to the north-west.

There are no discharge consents to groundwater located within 0.5km of the site.

This site is located in a groundwater nitrate vulnerability zone.

The site is located in an area with a limited potential for groundwater flooding to occur.

Further details are presented in Appendix III.

6 HYDROLOGY

The nearest surface water feature is a small pond located approximately centrally to the eastern boundary.

Further to this, a number of small ponds are located in the surrounding area with the closest located approximately 10m to the south. The closest watercourse is Bamcote Brook located approximately 880m to the north-west.

There are no abstractions from surface water located within 1.0km of the site.

There is one discharge consent to surface water located within 0.5km of the site. The listing relates to sewage discharges located approximately 490m to the east.

The site is not located in an area at risk of flooding from rivers or seas without defences.

The site is locally indicated to be at risk from surface water flooding in the vicinity of the pond in the east.

The site is located in a nitrate vulnerability zone.

Further details are presented in Appendix III.

7 SITE HISTORY

The history of the site has been derived from historical OS maps dating back to 1885. The map extracts are presented in Appendix V. Table 1 below presents a summary of the key developments in and around the sit shown on the historical map extracts.

Table 1 Summary of Site History

Date of Map Extract	On site and surrounding Land-use
1885-86 (1:2500 & 1:10560)	The site comprises two undeveloped agricultural fields separated by a field boundary including trees centrally in the south-east. A small unnamed pond is located approximately centrally to the eastern boundary. A second possible pond is located centrally to the southern boundary and within the boundary between to two portions of the site. Unnamed roadways form the north-western and southern boundaries with a junction between the two roadways present at the western corner of the site. Warren House and an unnamed residential dwelling are located approximately 25m to the north together with assumed farm buildings located further to the north. 'Holy Trinity Church' and residential dwellings comprising the village of Warton are located from approximately 170m to the north-east. The remaining immediate surrounding area generally comprises undeveloped agricultural land separated into fields. Gravel pits are located approximately 380m to the west and 500m to the north-west. Two unnamed ponds are located approximately 350m to the east south-east. Warton Windmill is located approximately 520m to the east. The River Anker is located approximately 950m to the south. The remainder of the wider surrounding area generally comprises undeveloped agricultural land, access infrastructure and locally residential and/or farm buildings.
1903-04 (1:2,500 & 1:10560)	The possible pond in the south of the site is no longer mapped. An orchard is now located at 'Warren House'. 'Lyndon Lodge' is located to the west of the gravel pit to the west. This gravel pit has been extended and is indicated to be disused. The gravel pit to the north-west appears to have been reprofiled and may be disused. One of the ponds to the east south-east has been filled and the second pond in this area to the south has been partially filled. A pumping station is located approximately 900m to the north-west.
1924-25 (1:2500 & 1:10560)	The field boundary separating the site in to two areas has been removed so that the site comprises a single parcel of land. The extent of 'Holy Trinity Church' has increased with the additional land mapped as a graveyard. Warton Pumping Station is located approximately 500m to the south. The windmill to the south-east has been removed. Old quarries are located approximately 250m to the east and 350m to the east south-east. The pit to the east south-east is at the location of a former pond. Further disused and apparently active gravel pits and locally sand pits are located in excess of approximately 500m to the south and north-west.
1955-57 (1:2500 & 1:10000)	The site remains generally unchanged. Minor residential development has occurred approximately 500m to the east. Warton Pumping Station to the south is no longer labelled. However, development has occurred in this area. A gravel pit approximately 500m to the north-west has undergone minor development.
1966 (1:10000)	The site remains generally unchanged. Minor residential development has occurred in the village of Warton. A large area from approximately 500m to the north-west has been cleared of field boundaries to former a larger parcel of land. The quarries in this area have been reprofiled or filled and a stream 900m to the north-west has been rechannelled.
1972-76 (1:2500 & 1:10000)	The site remains generally unchanged. The land directly to the north-east comprises a recreation ground with a pavilion further to the north-east. Significant residential development has occurred in the village of Warton from approximately 200m to the north-east. The quarries in this area have been filled to enable this development. Longfield Farm is located approximately 250m to the west. A covered reservoir is located approximately 490m to the north-west.
1988-94 (1:2500 & 1:10000)	The site remains generally unchanged. Residential development (Waverton House) has occurred directly to the north. Further residential development has occurred in Warton from approximately 100m to the east.

Date of Map Extract	On site and surrounding Land-use
1999 (Aerial Photo & 1:10000)	The site remains generally unchanged. Agricultural development has occurred directly to the north. New field boundaries are located within the field directly to the north-west. Minor residential development has occurred within the village of Warton. A disused pit is located approximately 600m to the west. A residential care home ('Linden Lodge') is located approximately 325m to the west. A number of field boundaries have been removed from approximately 75m to the north.
2006 (1:10000)	The site and immediate surrounding area remains generally unchanged. Residential development has taken place in the north-east of the village of Warton.
2024 (1:10000)	The site remains largely unchanged. Residential development has occurred directly to the east and approximately 300m and 500m to the east. A large farm ('Willow Farm') is located approximately 850m to the east. The sewage pumping station 500m to the south appears to have been redeveloped to comprise two residential dwellings. A quarry 800m to the north-west has been filled.

The site history dating back to 1885 has generally comprised agricultural land with a pond centrally to the eastern boundary and a second pond centrally on the southern boundary. The site was separated into two parts by a field boundary centrally in the south-east that was removed by 1924. The pond centrally to the southern boundary was not mapped as present from 1903.

The immediate surrounding area has generally comprised undeveloped agricultural land, roadway infrastructure, residential dwellings, recreational land and locally agricultural buildings. Significant residential development of the village of Warton has occurred more recently up to the eastern boundary of the site.

The wider surrounding area has generally comprised agricultural land, gravel and sand quarries, residential dwellings and locally sewage pumping stations. The quarries has typically been filled, locally to enable residential development.

8 STATUTORY DATABASE SEARCH

8.1 General

This section details any relevant information from registers maintained by the EA. Information provided by the BGS, The Coal Authority, Health Protection Agency and the National Environment Research Council (NERC) is also considered. The information held by the various bodies is summarised below and presented in detail in Appendix III.

It should be noted that the information provided in the desk study is obtained from independent third-party sources. It is provided in good faith, but no guarantee can be provided as to its accuracy. Independent enquiries should be made relating to information provided in the desk study information that may impact on the proposed development. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.

8.2 Database Search Results

There are no registrations listed within 0.5km of the site under the following:

- Contaminated Land Register Entries and Notices;
- Prosecutions;
- 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;
- Local Authority Pollution Prevention and Control Enforcements;
- Pollution Incidents to Controlled Waters;
- Historical Prosecutions;
- Registered Radioactive Substances;
- Substantiated Pollution Incident Register;
- Water Industry Act Referrals;
- BGS recorded landfill sites;
- Integrated Pollution Control Registered Waste Sites;
- Any waste, management, disposal, transfer or treatment sites;
- Registered Landfill Sites;
- Any hazardous substance sites.

The following sections discuss the database search results which identified registrations listed within 0.5km of the site.

8.3 Environment Agency Search Results

There is one historical landfill site located within 0.5km of the site. This listing relates to a landfill that accepted undefined wastes over and undefined period of time located approximately 215m to the east.

There are two recorded Local Authority recorded landfill sites located within 0.5km of the site. The closest listing relates to a landfill that accepted 'soil and rubble' over an undefined period of time located approximately 210m to the east. The location of this facility is the same as the historical landfill discussed above. The second listing relates to a facility that accepted 'soil and rubble' over an undefined period of time located approximately 410m to the west.

There are two areas of potentially infilled land (non-water) located within 0.5km of the site. The first listing relates to an area of unknown filled ground (pit, quarry etc) located approximately 375m to the east. The second listing relates to an area of unknown filled ground located approximately 425m to the west.

There is one area if potentially infilled land (water) located within 0.5km of the site. This listing relates to an area of unknown filled ground (pond, marsh, river, stream, dock etc) located approximately 445m to the north-east.

Further details are presented in Appendix III.

8.4 Geological Hazards

There is a very low risk or no hazards relating to the potential for collapsible ground stability, compressible ground stability, ground dissolution stability, running sand ground stability, and shrinking or swelling clay ground stability hazards at the site.

here is a low risk from landslide ground stability hazards at the site.

The site is indicated to be at no hazard from non coal mining activities. There are four BGS recorded mineral sites located within 0.5km of the site. The first listing relates to the opencast extraction of sand from the Helsby Sandstone Formation located approximately 285m to the north-east. The remaining listings relate to the open cast abstraction of sand or sand and gravel located at distances greater than approximately 365m from the site. Operations at all of these sites are indicated to have ceased.

The environmental database search indicates the site to be in a lower probability radon area and that no radon protective measures are necessary in the construction of new dwellings or extensions.

The site is indicated to be in an area that may be affected by coal mining and a Coal Authority Consultants Coal Mining Report has been obtained and is presented in Appendix IV.

The Coal Authority Report indicates the site is in an area that may be impacted by the workings of the Bench Coal to the west at a depth of approximately 209m bgl. The extraction thickness of the Bench Coal is indicated to be 122cm. The Bench Coal is indicated to dip to the north at approximately 9° and was last worked in 1954.

The report indicates the probability of unrecorded shallow workings to be present at the site is 'none'.

The site is indicated to be in an area where a notice to withdraw support was given in 1946.

No other records that may impact on the site have been identified in the Coal Authority report.

The site is in an area with a limited potential for groundwater flooding to occur.

The site is not located in an area at risk of flooding from rivers or seas without defences.

The site is locally indicated to be at risk from surface water flooding in the vicinity of the pond in the east.

Further details are presented in Appendix III.

8.5 Contemporary Trade References

There are three contemporary trade directory entries located within 0.5km of the site. The first listing relates to 'Lda Quarry Maintenance Ltd' located approximately 345m to the east. The second listing relates to an asphalt and coated macadam laying contractor located approximately 440m to the north-east. The final listing relates to a breakdown and recovery site located approximately 465m to the north-east. All of these listings are detailed as inactive.

There are two manufacturing and production points of interest located within 0.5km of the site. These listings relate to unspecified quarries or mines located approximately 345m to the east and 495m to the north-west respectively.

There is one recreational and environmental point of interest located within 0.5km of the site. This listing relates to a playground located approximately 110m to the north-east.

Further details are presented in Appendix III.

9 ASSESSMENT OF POTENTIAL CONTAMINATION RISKS

9.1 General

The following sections identify potential sources of contamination at the site and the surrounding area. The receptors to any contamination are also identified together with the pathways by which the contamination may make contact with the receptors. This section of the report uses the 'Land Contamination Risk Management' (LCRM) guidance (2021), produced by the Environment Agency to develop a conceptual site model (CSM) as a 'source-pathway-receptor' model in accordance with current best practise.

9.2 On-Site Sources of Contamination

The potential sources of on-site contamination are derived from an assessment of the current and historical site activities. The site history dating back to 1885 has generally comprised agricultural land with a pond centrally to the eastern boundary and a second pond centrally on the southern boundary. The site was separated into two parts by a field boundary centrally in the south-east that was removed by 1924. The pond centrally to the southern boundary was not mapped as present from 1903.

The current and former uses of the site as agricultural land is not classified by the Department for Environment, Food and Rural Affairs and the Environment Agency's document CLR8 as being a potentially contaminative land-use. However, the use of the site for arable farming is a considered to be a potential source of contamination in the form of pesticides and herbicides.

There is the potential for Made Ground to be present at the site, particularly in the vicinity of the former pond centrally in the south. Subject to its source, composition and thickness, Made Ground is a potential source of a general suite of determinants including asbestos. Made Ground is also considered to be a potential source of hazardous ground gas.

There is the potential for vehicles and machinery used or stored at the site to contaminate the site from incidental leaks or spills of fuels and oils. This would give rise to the presence of oil and fuel-based hydrocarbons within the near surface soils. No visual or olfactory evidence of contamination of this nature was noted during the site walkover.

The environmental database search indicates that the site is not located in an area associated with significantly elevated concentrations of cadmium, arsenic, chromium, nickel or lead.

9.3 Off-Site Sources of Contamination

The potential sources of off-site contamination are derived from and assessment of the current and historical activities in the vicinity of the site. The immediate surrounding area has generally comprised undeveloped agricultural land, roadway infrastructure, residential dwellings, recreational land and locally agricultural buildings. Significant residential development of the village of Warton has occurred more recently up to the eastern boundary of the site.

The wider surrounding area has generally comprised agricultural land and buildings, gravel and sand quarries, residential dwellings and locally sewage pumping stations. The quarries has typically been filled, locally to enable residential development. Further to this, the environmental database search has identified landfill facilities that are indicated to have accepted 'soil and rubble'.

The current and former uses of the immediate surrounding area for agricultural land, residential dwellings and access infrastructure are not classified by the Department for Environment, Food and Rural Affairs and the Environment Agency's document CLR8 as being potentially contaminative land-uses. However, the use of the surrounding are for arable farming is a considered to be a potential source of contamination in the form of pesticides and herbicides.

The filled quarries and landfill facilities in the wider surrounding area are considered to be potential sources of hazardous ground gas. Due to the distance to these features, their small size and likely nature of the fill materials, the potential risk posed at the site is considered to be low.

The sewage pumping stations in the wider surrounding area are classified as potential sources of contamination. However, due to their distances from the site, the potential risk posed at the site is considered to be very low if not negligible and will not be considered further.

9.4 Receptors and Pathways

The receptors to any potential contamination and therefore the element actually at risk from the potential sources of contamination have been identified as the following:

- Human Health – Construction/maintenance workers (R1);
- Human Health – Future Site Users (R2);
- Service Lines – Constructed as part of the new development (R3);
- Groundwater hydraulically down gradient of the site – Secondary Aquifer – Undifferentiated and Principal Aquifer (R4);
- Surface Water – Unnamed pond on the eastern boundary (R5);
- Neighbouring properties and residents (R6).

It is noted that allotment gardens may form part of the proposed development that will require specific consideration as part of the contamination assessment of the site.

A pathway is the means by which a contamination source makes contact with the receptor creating a pollutant linkage. The pathways considered viable in this assessment are as follows:

- Direct Physical Contact – Dermal contact, ingestion, inhalation (PL1);
- Migration from soils to groundwater via leaching (PL2);
- Migration within groundwater (PL3);
- Migration via service lines (PL4);
- Volatilisation of contaminants from soils and groundwater (PL5);
- Migration of hazardous ground gases (PL6);
- Vegetable Uptake (PL7).

The three elements of an identified pollutant linkage (source-pathway-receptor) need to be present for there to be a perceived risk from any identified contamination present in soils and/or groundwater.

9.5 Conceptual Site Model

This CSM has been produced in accordance with LCRM guidance to produce the source-pathway-receptor model. This CSM should be updated as necessary based on the findings of the intrusive investigation and as potential sources, pathways and receptors are identified.

The production of the CSM requires an assessment of risk to be made. The assessment of risk is in general based on guidance presented in the CIRIA C552 'Contaminated Land Risk Assessment: A Guide to Good Practice' (2001) that includes details on how a probability versus severity risk assessment matrix may be used to determine risk.

The probability of an event occurring can be classified in accordance with Table 2 as follows:

Table 2 CSM Probability Classifications

Classification	Description
Highly Likely	The event is very likely in the short term and appears inevitable over the long term or there is evidence that the receptor is already being polluted or harmed.
Likely	All elements of the pollutant linkage are present and in the right place. It is probable that the event will occur, but it is not inevitable. The event is possible in the short term and likely over the longer term.
Low Likelihood	It is possible the event will occur. The event may occur in the long term and is less likely to occur in the short term.
Unlikely	It is improbable that the event will occur in the long term.

The severity of an event can be classified in Table 3 as follows:

Table 3 CSM Severity Classifications

Classification	Description
Severe	There is an acute risk to human health which will result in significant harm, a risk of catastrophic damage to buildings or property or there is a short term risk of pollution to sensitive water resources and or to an ecosystem.
Medium	There is a risk of chronic damage to human health, a risk of pollution of a sensitive water resource or a risk of significant change in an ecosystem.
Mild	There is a pollution risk to non-sensitive water resources. There is a risk of significant damage to crops, buildings or services.
Minor	There is the risk of harm but is not necessarily significant. It could result in financial loss to resolve its effects. Non-permanent human health effects could be prevented by use of personal protective equipment. Easily repairable damage to buildings or structures.

For reference, each probability and severity rating have been scored with highly likely or severe scoring 4 and unlikely or minor scoring 1. Once the probability and the severity of an event have been characterised, the risk posed can be determined using the risk assessment matrix detailed in Table 4. The probability and severity scores are added to provide the risk score.

Table 4 Risk Assessment Matrix

		Consequence			
		Severe (4)	**Medium (3)**	**Mild (2)**	**Minor (1)**
Probability	**Highly Likely (4)**	Very High (8)	High (7)	Moderate (6)	Moderate/Low (5)
	Likely (3)	High (7)	Moderate (6)	Moderate/Low (5)	Low (4)
	Low Likelihood (2)	Moderate (6)	Moderate/Low (5)	Low (4)	Very Low (3)
	Unlikely (1)	Moderate/Low (5)	Low (4)	Very Low (3)	Very Low or Negligible (2)

Notes: Relevant scores provided in brackets.

The risk classifications above can be defined as presented in the following Table 5:

Table 5 Risk Rating Definitions

Risk Rating	Definition
Very high	There is a high probability that severe harm could or is currently occurring. Urgent investigation required and remediation is likely to be required.
High	Harm is likely to occur. Investigation is required and remediation may be necessary.
Moderate	There is the potential for harm to occur, but it is unlikely to be severe. An investigation is required to clarify the risk. Remediation may be required.
Low	There is the possibility for harm, but the harm is likely to be mild. Consideration should be given to the need for investigation to verify the actual risk rating.
Very low	There is a low possibility for harm and the harm is unlikely to be severe. At the lowest risk score of 2, measurable risk is not anticipated. Intrusive investigation is not deemed necessary.

Table 6 presents a summary of the identified pollutant linkages and their assessed risk scores. The CSM and potential pollutant linkages are also pictorially presented as Figure 3.

Table 6 Summary of Pollutant Linkages

Potential Source of Contamination	Potential Pathway	Description / Comment	Potential Receptors	Risk Classification		
				Prob	Cons	Risk
Use of pesticides and herbicides at the site and in the surrounding area.	PL1, PL2, PL3, PL4, PL5, PL6	Potential for contamination. Presence not yet proven.	R1, R2, R3, R4, R5, R6	3	2	5 Moderate /low
Incidental leaks and spills from vehicles and machinery used and stored at the site.		No visual or olfactory evidence of contamination noted during the site walkover.		1	2	3 Very Low
Made Ground present at the site and locally in the immediate surrounding area.		Potential for contamination and hazardous ground gases to be present. Presence not yet proven.		2	2	4 Low
Filled land including landfills in the vicinity of the site.	PL6	Potential for hazardous ground gases to migrate onto the site.	R1, R2, R6	1	2	3 Very Low

The following section provides specific discussion on pollutant linkages summarised in Table 6.

Human Health

The desk study has identified potentially viable pollutant linkages that may pose a risk to human health from the identified potential sources of contamination and hazardous ground gas. The CSM has generally identified a low risk from the identified sources and a moderate to low from the potential use of pesticides and herbicides.

Based on the findings of the conceptual site model, an intrusive investigation is recommended to determine the actual risk posed from contamination and hazardous ground gas and therefore potential need for remediation. At this stage, it is considered likely that risks at the site could be reduced to an acceptable level by the use of mitigation measures including cover layers and gas resistant membranes at the proposed development.

The potential contamination risks to neighbouring site users are from the current and historical activities completed at the site. Based on the nature of the identified potential sources of contamination, the impact is anticipated to be limited to the immediate vicinity of the sources. The potential risk posed to the neighbouring site from contamination and ground gas sourced from the site is therefore considered to be very low is not negligible and therefore further investigation and assessment to determine the potential risk to neighbouring properties is not considered necessary.

Service Lines
Minor potential sources of contamination have been identified at the site by the desk study and therefore, the potential risk to service lines is considered to be moderate to low. As a result, it is recommended that an intrusive investigation is completed to determine the actual risk posed. However, it is anticipated that the risks to service lines could be reduced to an acceptable level by the use of contaminant resistant water supply infrastructure for new water supply lines.

Groundwater
The Head in the west is classed as Secondary Aquifer – Undifferentiated whilst the Helsby Sandstone Formation is classified as a Principal Aquifer. The site is not located in a SPZ. There is one abstraction from groundwater within 1km of the site that relates to the abstraction of groundwater for spray irrigation located approximately 895m to the north-west.

The groundwater sensitivity at the site is therefore considered to be moderate to low as no specific receptors are present in the immediate vicinity of the site with the exception of the aquifer as a potential reserve.

Based on the identified potential sources of contamination and in consideration of the groundwater sensitivity, it is considered that the potential risk posed to groundwater associated with the on-site sources of contamination is low. As a result, it is recommended that an intrusive investigation is completed to determine the actual risk posed.

Surface Watercourses
The nearest surface water feature is an unnamed pond located on the eastern boundary of the site. Further to this, a number of small ponds are located in the surrounding area with the closest located approximately 10m to the south. The closest watercourse is Bamcote Brook located approximately 880m to the north-west.

Based on the identified potential sources of contamination at the site and the location of the pond, the potential risk to surface water is considered to be moderate to low. It is recommended that an intrusive investigation is completed to determine the actual risk posed.

9.6 Summary

The CSM, has identified potentially viable pollutant linkages that require intrusive investigation to determine the actual risk posed. From the assessment of the potential pollutant linkages the critical receptors are considered to be site end users (assumed to be a child for a residential development) and the pond on the eastern boundary.

Maintenance and construction workers, service lines and groundwater may also require consideration.

At this stage, it is considered likely that risks to human health at the site could be reduced to an acceptable level by using mitigation measures including cover layers, gas resistant membranes within proposed buildings and contaminant resistant water supply infrastructure. It is noted that allotment gardens may form part of the proposed development that will require specific consideration as part of the contamination assessment of the site.

It is considered unlikely that remediation to be protective of controlled waters will be required.

10 GEOTECHNICAL CONSIDERATIONS

It is understood that the proposed development comprises the outline planning application for the construction of up to 110 dwellings, with access, landscaping, sustainable drainage features, and associated infrastructure.

Due to the topography of the site, reprofiling works and or new retaining structures or slopes may be required to enable the proposed development. It is recommended that any significant reprofiling works are undertaken in accordance with an earthworks specification for the site.

Based on the expected geology, it is considered likely that traditional strip or pad foundations may be feasible for relatively lightly loaded structures at the proposed development. Where cohesive materials are encountered at formation level, considerations may need to be given to the need for foundations to be locally deepened where they are in the influencing distance of trees in accordance with NHBC guidance. Consideration to appropriate heave precautions may also be required. Foundations may also need to be extended through any thicker Made Ground or otherwise unsuitable materials.

For higher structural loads, if significant thicknesses of unsuitable materials or significant thickness of Made Ground are found to be present at the site, where the requirement for deepening of foundations for building near trees exceeds approximately 2.5m bgl or if the shallow ground conditions are found to be poor in nature, consideration to an alternative foundation solution such as ground improvement techniques or piling may be required.

The Head and Helsby Sandstone Formation are anticipated to comprise variable cohesive and granular materials. Therefore, the use of shallow soakaways or other infiltration drainage systems within the granular Head or Helsby Sandstone Formation materials may be feasible. The use of soakaways or other infiltration drainage systems within the cohesive Head or Helsby Sandstone Formation materials is unlikely to be feasible.

The site is indicated to be in an area that may be affected by coal mining and a Coal Authority Coal Mining Report has been obtained. This report is discussed in Section 4. Given the anticipated depth to any worked coal and the anticipated thickness of competent solid geology above, the risk posed at the site is considered to be very low. Further assessment and/or investigation with regards to the risk associated with coal mining is not considered necessary.

The site is locally indicated to be at risk from surface water flooding in the vicinity of the existing pond in the east. Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but instead lies on or flows over the ground surface. The risk posed by surface water flooding at the site could be mitigated by the inclusion of appropriate surface water drainage systems within the proposed development. Soakage testing in general accordance with BRE365 may be required to provide infiltration rates of the ground conditions at to the site to support the design of surface water drainage systems.

The site is not located in an area at risk of flooding from rivers or seas without defences.

It is considered necessary to undertake a detailed intrusive investigation at the site to fully establish any geotechnical constraints which may exist and to determine the geotechnical parameters of the underlying ground conditions.

11 FURTHER WORK

Based on the findings of the desk study it is recommended that an intrusive investigation is completed prior to the commencement of any development works to assess the actual contaminative status of the ground conditions at the site.

It is also considered essential that the intrusive investigation should provide geotechnical parameters of the underlying ground conditions in relation to the proposed development.

The intrusive investigation is likely to comprise a series of boreholes and trial pits. The investigation should include the installation of ground gas monitoring standpipes and a suitable monitoring programme. Based on the development proposals, it is recommended that trial pit soakaway testing is completed in general accordance with BRE365 to confirm the drainage characteristics of the ground conditions. Selected soil and leachate samples recovered during the intrusive investigation would be tested for a general suite of determinants together with appropriate geotechnical testing.

12 SUMMARY AND RECOMMENDATIONS

A desk study is required as part of the proposed redevelopment of the site for residential dwellings. The conclusions of this assessment are summarised as follows:

The environmental database search indicates the site is located in a lower probability radon areas and that new developments or extensions do not require radon protection measures.

The CSM has identified pollutant linkages that require further intrusive investigation to determine the actual risk posed. At this stage it is recommended that risks to human health could be reduced to an acceptable level by the use of mitigation measures including cover layers, gas resistant membranes and contaminant resistant water supply infrastructure at the proposed development. Remediation to be protective of controlled waters is not anticipated to be required.

The critical receptors are considered to be human health (female child for a residential development) and the pond located in the east. However, groundwater, service lines and maintenance and construction workers may also require consideration.

Due to the topography of the site, reprofiling works and retaining structures may be required to enable the proposed development. It is recommended that any significant reprofiling works are undertaken in accordance with an earthworks specification for the site.

Based on the expected geology, it is considered likely that traditional strip or pad foundations may be appropriate for the site. Foundations may need to be deepened where they are in the influencing distance of trees in accordance with NHBC guidance. Foundations may also need to be extended through any thicker Made Ground or otherwise unsuitable material.

If traditional foundations are not appropriate for the proposed development, consideration to alternative foundation solutions may be required including ground improvement or piled foundations.

Based on the anticipated ground conditions, it is considered that soakaways and other infiltration drainage systems may be feasible for the proposed development. If soakaways or other infiltration drainage systems are proposed, soakage testing in general accordance with BRE365 will be required to determine the drainage characteristics.

The site is locally indicated to be at risk from surface water flooding. It is anticipated that surface water flooding may be managed by suitably designed site drainage/soakaway basins.

The site is indicated to be in an area that may be affected by coal mining. However, given the anticipated depth to any worked coal and the anticipated thickness of competent solid geology above, the risk posed at the site is considered to be very low. Further assessment and/or investigation with regards to the risk associated with coal mining is not considered necessary.

It is recommended that an intrusive ground investigation is completed ahead of any development works to determine the geotechnical properties of the underlying ground conditions and to determine the actual contaminative status of the site. The intrusive investigation should include an assessment of hazardous ground gases.

REFERENCES

BGS Map Sheet No. 155 – Coalville, Solid and Drift. 1:50 000 scale

http://www.bgs.ac.uk/GeoIndex/

Environment Agency's Publication 'Land Contamination Risk Management (LCRM)', dated April 2021

CIRIA C552 'Contaminated Land Risk Assessment: A Guide to Good Practise' (2001)

DEFRA R&D Publication CLR 8 "Potential Contaminants for the Assessment of Land" dated March 2002.

www.environment-agency.gov.uk

Department of the Environment Industry Profiles

Consultants Coal Mining Report No. 51003471342001

Envirocheck Report No. 366474854_1_1

GENERAL NOTES

The interpretation made in this report is based on the information obtained during the course of the desk study and ground investigation. It should be appreciated that any desk study information is not necessarily exhaustive and that further information relevant to the site and its proposed usage may be available. There may be conditions present on the site that have not been revealed by the ground investigation which as a result have not been addressed within this report.

The accuracy of any map extracts cannot be guaranteed, and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.

The qualitative assessment of risk presented in this report presents an assessment of potential pollutant linkages between sources, pathways and receptors. A level of risk is attributed to these linkages. However, a low or insignificant risk does not imply that elevated concentrations of various determinants are not present on the site when compared to background or 'greenfield' conditions.

The level of risk attributed is based on a number of factors and the interpretation of this risk may be applied in a different manner for a different end use or environmental setting. The presence of contaminants may be assessed in alternative ways by institutional bodies regardless of whether an apparent risk is present based on the identified pollutant linkages in this assessment.

This report may express an opinion on possible configurations of strata underlying the site between or beyond the exploratory holes or on the possible presence of features based on either visual, verbal or published evidence, this is for guidance only and no liability can be accepted for its accuracy.

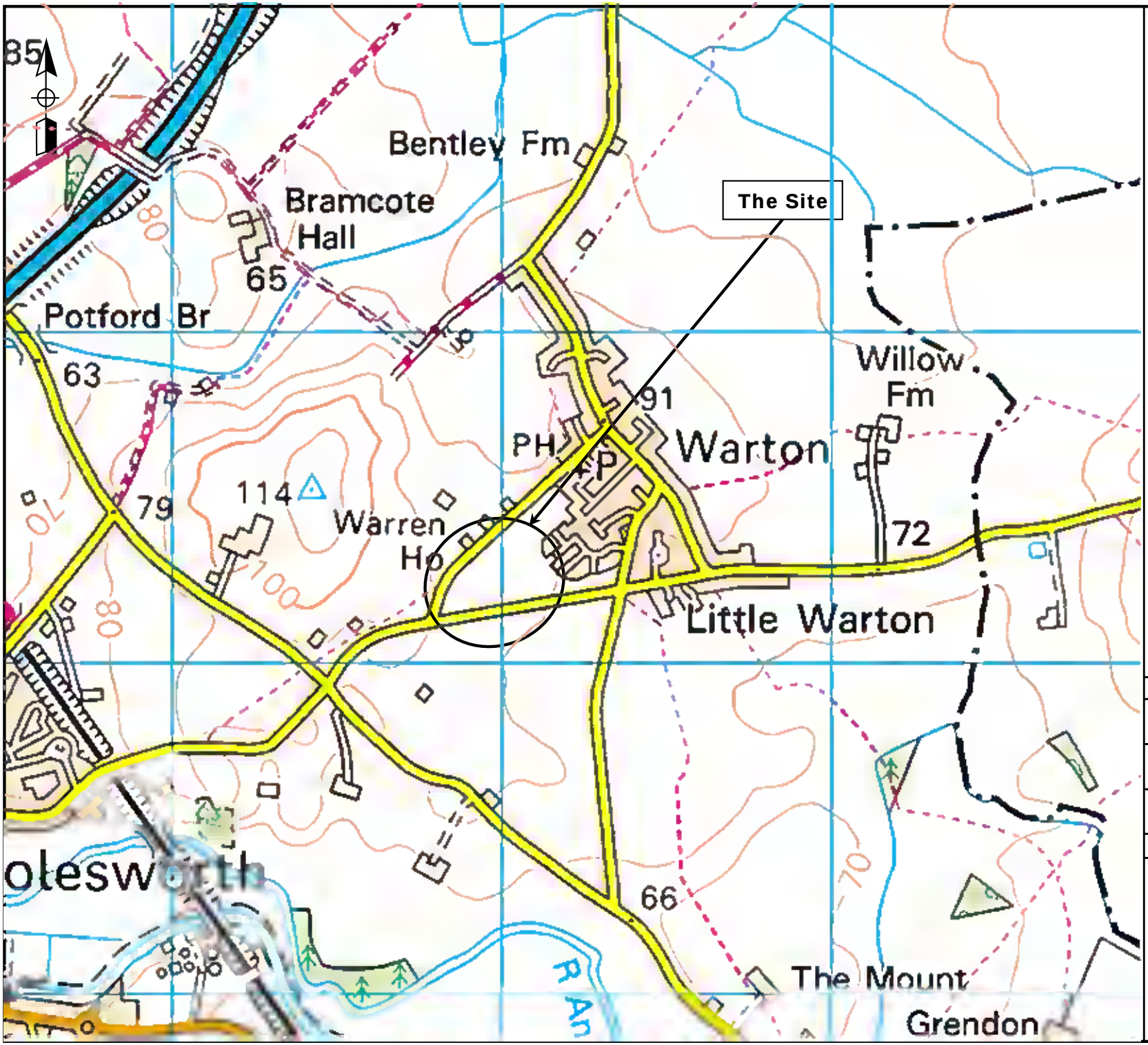
Comments made on ground conditions are based on the observations made at the time of the investigation works. It should be noted that groundwater levels may vary due to seasonal fluctuation or other factors. Observations made with respect to below ground gas concentrations may also vary due to seasonal factors and atmospheric conditions.

This report has been prepared in relation to the proposed development as detailed herein. Should the nature of the development change following the submission of this report a re-assessment of the conditions recorded on the site may be necessary.

This report may not be used in the assessment of the conditions at any site other than the site described herein.

This report has been prepared for the sole use of the client and the client's agents and advisors in relation to the proposed development as detailed herein. The issue of this report to third parties not involved in the proposed development as described herein is not permitted without the prior permission being received in writing by ASL. Reproduction of this report to include all figures, drawings and appendices is prohibited without the prior written consent of ASL.

FIGURES

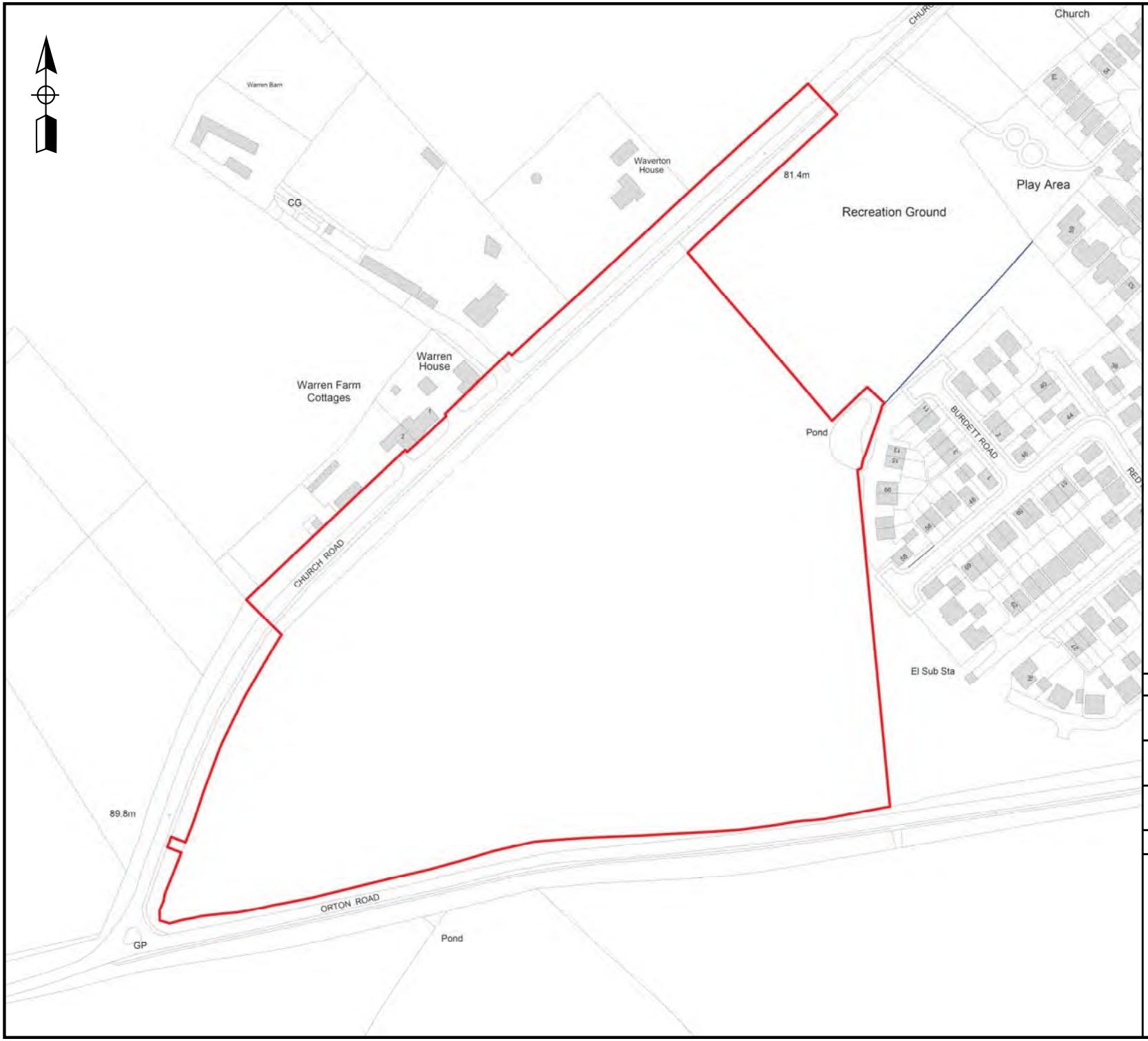


Notes: Not to Scale

Drawing No.	**Figure 1**
Drawing Name	**Site Location Plan**
Project	**Land North of Orton Road, Warton**
Client Name	**Richborough Estates Limited, M E Caton and A N Caton**
Project No.	**294-24-087**

ASL
Holly Farm Business Park
Honiley
Warwickshire
CV8 1NP

T: +44 (0)1926 485 508
E: info@aslenvironmental.co.uk
W: www.aslenvironmental.co.uk



Key

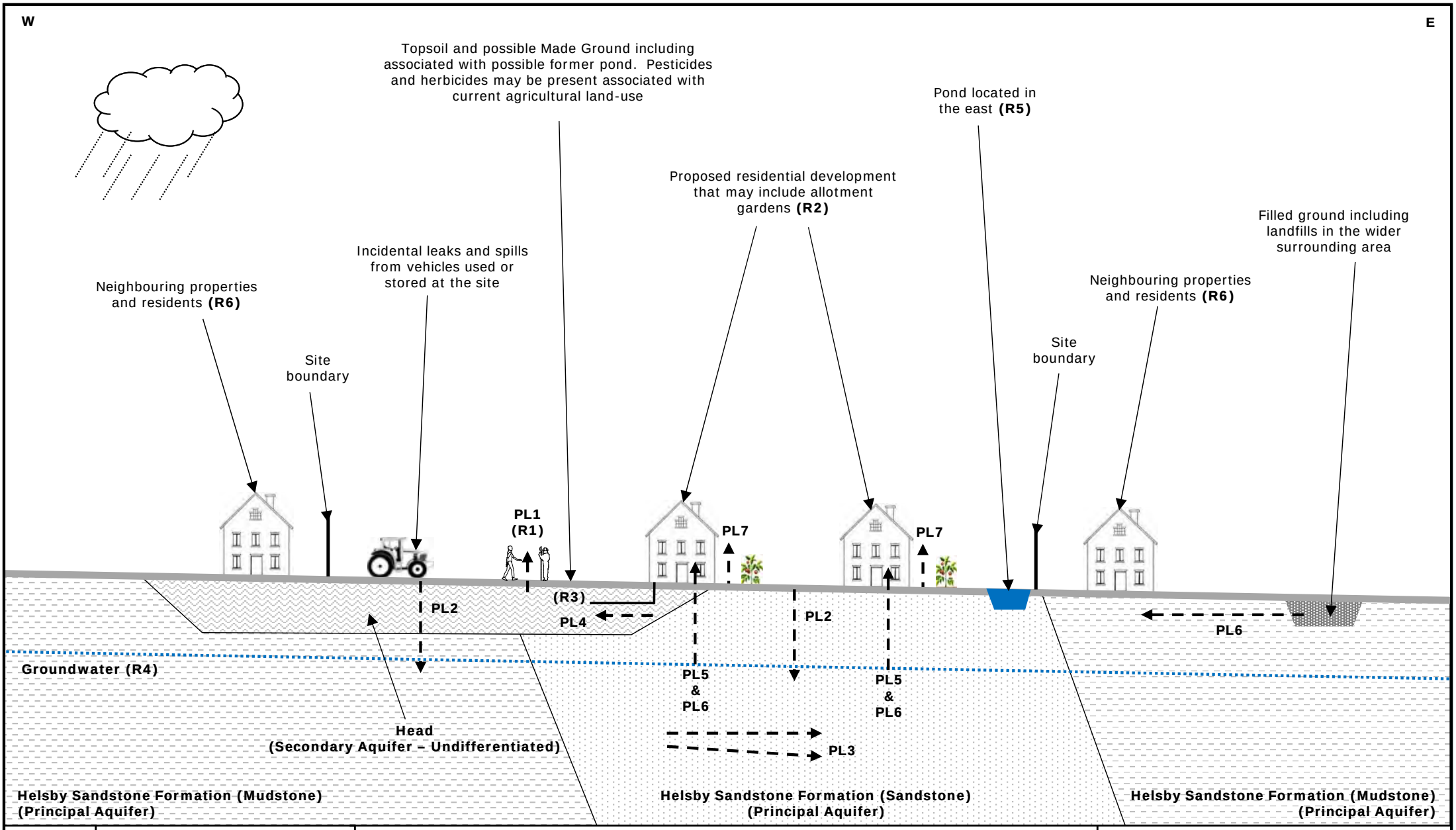
Approximate Site Boundary

Notes: Not to Scale. This drawing should be read in conjunction with the associated ASL report. All dimensions to be checked on site and not scaled on this drawing.

Drawing No.	**Figure 2**
Drawing Name	**Site Layout Plan**
Project	**Land North of Orton Road, Warton**
Client Name	**Richborough Estates Limited, M E Caton and A N Caton**
Project No.	**294-24-087**

ASL
Holly Farm Business Park
Honiley
Warwickshire
CV8 1NP

T: +44 (0)1926 485 508
E: info@aslenvironmental.co.uk
W: www.aslenvironmental.co.uk



Drawing No.	**Figure 3**
Drawing Name	**Conceptual Site Model**
Project Name	**Land North of Orton Road, Warton**
Client Name	**Richborough Estates Limited, M E Caton and A N Caton**
Project No.	**294-24-087**

Summary of Pollutant Linkages (for full details see contamination associated report)

Receptors:
R1 - Construction and maintenance workers;
R2 - Current and future site users;
R3 - Service Lines;
R4 - Groundwater;
R5 - Surface watercourses;
R6 - Neighbouring properties and residents.

Pathways:
PL1 - Direct Physical Contact;
PL2 - Migration from soils to groundwater via leaching;
PL3 - Migration within groundwater;
PL4 - Migration via service lines;
PL5 - Volatilisation of contaminants from soils and groundwater;
PL6 - Migration of hazardous ground gases;
PL7 - Vegetable Uptake.

ASL
Holly Farm Business Park
Honiley
Warwickshire
CV8 1NP

T: +44 (0)1926 485 508
E: info@aslenvironmental.co.uk
W: www.aslenvironmental.co.uk

APPENDIX I

DEVELOPMENT FRAMEWORK PLAN

The scaling of this drawing cannot be assured

Revision		Date	Drn	Ckd
M	Legend and Access Graphic Update	26.03.25	J.W.	T.L.

- Site Boundary
- Proposed Residential Development
- Proposed Open Space and Paths
- Proposed Highway
- Proposed Sustainable Drainage
- Existing Recreation Ground
- Proposed Access/Egress for All Modes
- Proposed Access/Egress for Pedestrians
- Existing Landscape

Richborough

Project
LAND OFF ORTON ROAD, WARTON

Drawing Title
ILLUSTRATIVE FRAMEWORK PLAN

N

Date	Scale	Drawn by	Check by
30.01.25	1:1,000@A1 1:2,000@A3	J.W.	T.L.

Project No	Drawing No	Revision
333101884	RG-M-AI02	M

0 — 50m

Stantec

Stantec UK Limited
The Blade
Abbey Square
Reading
RG1 3BE
T: 0118 9430 000

stantec.com\uk

APPENDIX II

SITE PHOTOGRAPHS

Photo 1: Site Entrance

Photo 2: Access from Red Marl Way

Photo 3: Southern Half of the Eastern boundary

Photo 4: Pond Feature on the Eastern Boundary

Photo 5: Northern Half of Eastern boundary

Photo 6: Northern Boundary

Photo 7: Southern Half of Northern Boundary

Photo 8: Southern Corner

Photo 9: Southern Boundary

Photo 10: Southern Boundary from Eastern Corner

Photo 11: Crop Coverage of Site

Photo 12: Slope of the Site West to East

APPENDIX III

ENVIRONMENTAL DATABASE SEARCH RESULTS

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
366474854_1_1

Customer Reference:
294-24-087

National Grid Reference:
427980, 303280

Slice:
A

Site Area (Ha):
5.63

Search Buffer (m):
1000

Site Details:

Land off Orton Road
Warton

Client Details:

Mr M Davis
ASL
Holly Farm Business Park
Honiley
Warwickshire
CV8 1NP

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Contents

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.

Report Version v53.0

Envirocheck®
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Summary

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 2			1	14
Prosecutions					
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6	Yes			
Pollution Incidents to Controlled Waters					
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				1 (*3)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 7	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 8			1	3
Water Framework Directive - Catchment	pg 8	Yes			
Water Framework Directive - Groundwater	pg 8	Yes		Yes	
Water Framework Directive - Surface Waters					

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Summary

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	pg 9		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 9	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 9		1	1	1
Potentially Infilled Land (Non-Water)	pg 9			2	
Potentially Infilled Land (Water)	pg 9			1	
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					

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Summary

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 10	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 10	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 16			4	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 17	Yes	n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 17	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 18	Yes	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 19			3	4
Fuel Station Entries					
Points of Interest - Commercial Services	pg 19				3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 19			2	8
Points of Interest - Public Infrastructure	pg 20				3
Points of Interest - Recreational and Environmental	pg 20		1		
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					
Areas of Adopted Green Belt					
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 21	2			
Ramsar Sites					
Sites of Special Scientific Interest	pg 21				1
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	A13SE (NW)	0	1	427980 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	0	1	428100 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	427950 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	427900 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	63	1	427900 303100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	92	1	428200 303450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	96	1	428200 303150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	167	1	428250 303100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	190	1	427980 303650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	191	1	427750 303450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	194	1	427700 303400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	202	1	428100 303000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	202	1	427600 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	211	1	427650 303350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	220	1	428150 303650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	228	1	428350 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	236	1	427900 303650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	238	1	428250 303600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	240	1	428050 303700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	248	1	428100 303700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	256	1	427950 303700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	269	1	428300 303600

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	A12SE (W)	305	1	427500 303282
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	308	1	428300 302950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	322	1	427900 303750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	343	1	427980 303800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	347	1	427850 303750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	363	1	428450 303050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	368	1	427900 303800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	380	1	428250 302850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	434	1	427850 303850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	458	1	427800 303850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	469	1	427700 302700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	475	1	428250 302750
1	**Discharge Consents** Operator: Jack Everton (Investments) Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Barn End Estate, Warton, Near Atherstone, Warwickshire Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/01261/S Permit Version: 1 Effective Date: 24th June 1964 Issued Date: 24th June 1964 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of River Anker **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	489	2	428600 303100
2	**Discharge Consents** Operator: Mr Mark Baines, Mr John Baines, Mrs Diana Baines Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Donative Farm Cottage & Barns Donative Farm, Warton, Tamworth, Staffordshire, B79 0jr Authority: Environment Agency, Midlands Region Catchment Area: Not Supplied Reference: Npswqd008653 Permit Version: 1 Effective Date: 28th July 2009 Issued Date: 28th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwater **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	A12NW (W)	603	2	427224 303334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Mr Nigel Shepherd Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 63 Orton Road, Warton, Tamworth, Staffordshire, B79 0hs Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: Npswqd009571 Permit Version: 1 Effective Date: 1st April 2010 Issued Date: 1st April 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of River Anker **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	A14NE (E)	643	2	428768 303316
4	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Warton - Orton Road Sps 82 Orton Road, Warton, Tamworth, Warwickshire, B79 0hu Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: Tsc3577 Permit Version: 3 Effective Date: 19th September 2016 Issued Date: 19th September 2016 Revocation Date: 30th January 2023 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Ditch Tributary Of River Anker **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	684	2	428806 303181
5	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Little Warton, Sewage Pumping Station, Atherstone, Warwickshire Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/01970/O Permit Version: 1 Effective Date: 8th June 1967 Issued Date: 8th June 1967 Revocation Date: 31st May 2017 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of River Anchor **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	708	2	428800 303000
6	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Warton - Orton Road Sps 82 Orton Road, Warton, Tamworth, Warwickshire, B79 0hu Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: Tsc3577 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 18th September 2016 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary River Anker **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	803	2	428920 303110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Warton - Orton Road Sps 82 Orton Road, Warton, Tamworth, Warwickshire, B79 0hu Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: Tsc3577 Permit Version: 1 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary River Anker **Status:** **Appeal by applicant: Revised by Secretary of State (Section 39)** Positional Accuracy: Located by supplier to within 10m	A14SE (E)	803	2	428920 303110
7	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Not Given Location: Warton PS , Avon Division Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: T/21/00778/T/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 14th June 1961 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge Environment: Freshwater Stream/River Receiving Water: River Anker **Status:** **Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8SW (S)	862	2	427900 302300
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/35958/R Permit Version: 4 Effective Date: 29th January 2018 Issued Date: 29th January 2018 Revocation Date: 5th January 2021 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A18NW (N)	892	2	427690 304280
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/35958/R Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 28th January 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **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	A18NW (N)	892	2	427690 304280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/35958/R Permit Version: 1 Effective Date: 27th September 2004 Issued Date: 27th September 2004 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **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	A18NW (N)	892	2	427690 304280
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/35958/R Permit Version: 2 Effective Date: 31st December 2005 Issued Date: 27th September 2004 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **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	A18NW (N)	892	2	427690 304280
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Warton Sewage Treatment Works Austrey Road, Warton, Tamworth, Staffordshire, B79 0hw Authority: Environment Agency, Midlands Region Catchment Area: Upper Trent Catchment Reference: T/21/35958/R Permit Version: 2 Effective Date: 31st December 2005 Issued Date: 27th September 2004 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Crude Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **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	A18NW (N)	892	2	427690 304280
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/08676/R Permit Version: 1 Effective Date: 1st August 1981 Issued Date: 1st August 1981 Revocation Date: 26th September 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	892	2	427690 304280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Warton Sewage Treatment Works Off Austrey Road, Warton, Tamworth, Warwickshire, B79 0hg Authority: Environment Agency, Midlands Region Catchment Area: Lower Anker Catchment Reference: T/21/35958/R Permit Version: 5 Effective Date: 6th January 2021 Issued Date: 6th January 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramcote Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A18NW (N)	897	2	427688 304285
	Nearest Surface Water Feature	A13NE (NE)	0	-	428106 303368
9	**Water Abstractions** Operator: Mr Jb & Mrs Dc Baines Licence Number: 03/28/21/0038 /1 Permit Version: Not Supplied Location: Donative Farm Authority: Environment Agency, Midlands Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 545 Yearly Rate (m3): 53000 Details: Not Supplied 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	A17SW (NW)	897	2	427155 303845
	Water Abstractions Operator: James Gilmour & Partners Licence Number: Md/028/0021/006 Permit Version: 1 Location: Polesworth (River Anker) Authority: Environment Agency, Midlands 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Polesworth, Staffordshire (River Anker) Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NW (W)	1479	2	426370 303530
	Water Abstractions Operator: James Gilmour & Partners Licence Number: 03/28/21/0051 Permit Version: 2 Location: Polesworth (River Anker) Authority: Environment Agency, Midlands 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Polesworth, Staffordshire (River Anker) Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 15th January 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NW (W)	1479	2	426370 303530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: James Gilmour & Partners Licence Number: 03/28/21/0051 Permit Version: 1 Location: Polesworth (River Anker) Authority: Environment Agency, Midlands 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Polesworth, Staffordshire (River Anker) Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 19th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NW (W)	1479	2	426370 303530
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (NW)	0	3	427980 303282
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (E)	0	3	427996 303283
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (E)	0	3	428000 303282
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (NW)	0	3	427980 303282
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (NW)	0	3	427980 303282
	Extreme Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 2	A14SW (E)	422	4	428544 303264
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2245.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bramcote Brook Catchment Name: Trent Primacy: 1	A17SW (NW)	885	4	427224 303917
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1043.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Anker Catchment Name: Trent Primacy: 1	A7SE (SW)	940	4	427317 302352
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1361.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Anker Catchment Name: Trent Primacy: 1	A3NE (S)	948	4	428047 302237
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Anker from River Sence to River Tame WaterBody ID: GB104028046460 Operational Catchment: Sence Anker and Bourne Rivers and Lakes Management Catchment: Tame Anker and Mease Catchment Name: Tame, Anker & Mease	A13SE (NW)	0	2	427980 303282
	Water Framework Directive - Groundwater Waterbody Name: Tame Anker Mease - PT Sandstone Burton Waterbody ID: GB40401G301200 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40401G301200 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2019	A13SE (NW)	0	2	427980 303282
	Water Framework Directive - Groundwater Waterbody Name: Tame Anker Mease - Secondary Combined Waterbody ID: GB40402G990800 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40402G990800 Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2019	A13NW (NW)	265	2	427687 303492

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Barns End Road, Warton, Warwickshire Name: Orton Farm Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD23529 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 644/2145, NW25, 3700/9020	A14NW (E)	213	2	428354 303409
	Local Authority Landfill Coverage Name: North Warwickshire Borough Council - Has supplied landfill data		0	5	427980 303282
	Local Authority Landfill Coverage Name: Warwickshire County Council - Had landfill data but passed it to the relevant environment agency		0	6	427980 303282
15	**Local Authority Recorded Landfill Sites** Location: Orton Farm Quarry (Ivy Croft Road), Polesworth-Warton Reference: 1159 Authority: North Warwickshire Borough Council, Environmental Health Department **Last Reported Status:** **Unknown** Types of Waste: Soil, Rubble Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14NW (NE)	211	5	428322 303476
16	**Local Authority Recorded Landfill Sites** Location: Linden Lodge, Polesworth-Warton Reference: Not Supplied Authority: North Warwickshire Borough Council, Environmental Health Department **Last Reported Status:** **Unknown** Types of Waste: Soil, Rubble Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A12SE (W)	410	5	427395 303116
17	**Local Authority Recorded Landfill Sites** Location: Adjacent To Waterworks, Polesworth-Warton Reference: Not Supplied Authority: North Warwickshire Borough Council, Environmental Health Department **Last Reported Status:** **Unknown** Types of Waste: Soil, Rubble Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable	A8SE (S)	581	5	427998 302602
18	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14NW (E)	376	-	428503 303346
19	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A12SE (W)	427	-	427383 303081
20	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NW (NE)	447	-	428520 303609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SE (NW)	0	1	427980 303282
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SE (E)	0	1	428004 303287
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (NW)	0	1	427980 303282
	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	A13NE (N)	1	1	428000 303424
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13NW (NW)	118	1	427873 303464
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	197	1	428022 303000
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	238	1	428202 303639

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	253	1	428201 303654
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	275	1	428266 302967
	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	A14SW (SE)	276	1	428305 303000
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18SW (N)	338	1	427946 303784
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18SW (N)	338	1	427946 303784
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	540	1	428050 304000

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	559	1	427243 303173
	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	A12SW (W)	620	1	427182 303155
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A7SE (SW)	627	1	427549 302584
	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	A18NW (N)	637	1	427786 304044
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18NW (N)	730	1	427886 304173
	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: 30 - 45 mg/kg	A12SW (W)	764	1	427042 303086

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	767	1	428071 304226
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	795	1	427008 303146
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12SW (W)	802	1	427000 303153
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	819	1	428005 304278
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	843	1	427316 303936
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18NW (N)	851	1	427743 304258

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	852	1	427969 304309
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	867	1	427019 303543
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	873	1	427925 304325
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	876	1	427002 303525
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	877	1	428064 302253
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12NW (W)	877	1	427000 303520

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 Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	899	1	427847 304338
	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	A15SW (E)	901	1	429000 303000
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A7SW (SW)	902	1	427256 302441
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A3NE (S)	919	1	428156 302285
	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	A17SW (NW)	927	1	427193 303935
	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	A3NE (S)	936	1	428076 302254

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 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	A3NW (S)	964	1	427960 302206
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	984	1	427715 304389
21	**BGS Recorded Mineral Sites** Site Name: Warton Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24451 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Helsby Sandstone Formation (Bromsgrove Sandstone Formation) Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	284	1	428387 303512
22	**BGS Recorded Mineral Sites** Site Name: Little Warton Location: Little Warton, Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24458 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Helsby Sandstone Formation (Bromsgrove Sandstone Formation) Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A14NW (E)	363	1	428490 303352
23	**BGS Recorded Mineral Sites** Site Name: Stiper'S Hill Pit Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24460 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Formation (Polesworth Formation) Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	410	1	427659 302774
24	**BGS Recorded Mineral Sites** Site Name: Tithe Farm Gravel Pit Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24456 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Formation (Polesworth Formation) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SE (W)	431	1	427380 303076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**BGS Recorded Mineral Sites** Site Name: Warton Quarry Location: Warton, Polesworth, Tamworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 9139 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Formation (Polesworth Formation) Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	545	1	427660 303850
26	**BGS Recorded Mineral Sites** Site Name: Kisses Barn Quarry Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24459 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Formation (Polesworth Formation) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8SW (S)	557	1	427742 302603
27	**BGS Recorded Mineral Sites** Site Name: Round Berry Pit Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24450 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Formation (Polesworth Formation) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	563	1	427495 303721
28	**BGS Recorded Mineral Sites** Site Name: Warton Barn Location: Warton, Polesworth, Warwickshire Source: British Geological Survey, National Geoscience Information Service Reference: 24449 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Halesowen Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	821	1	427283 303875
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (NW)	0	7	427980 303282
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	428090 303178
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	2	1	427967 303394
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	164	1	427902 303007
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	199	1	427780 303488
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (SW)	241	1	427571 303093
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	427996 303283
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	250	1	428234 303629
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	427996 303283
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	176	1	427752 302990
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	250	1	428234 303629
	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	A13SE (NW)	0	1	427980 303282
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	427980 303282

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Contemporary Trade Directory Entries** Name: Lda Quarry Maintenance Ltd Location: 15, Windmill Close, Warton, Tamworth, Staffordshire, B79 0JA Classification: Quarries **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	345	-	428472 303436
30	**Contemporary Trade Directory Entries** Name: M & G Ground Services Location: 23, Hill Crest Farm Close, Warton, Tamworth, B79 0JQ Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	438	-	428452 303687
31	**Contemporary Trade Directory Entries** Name: 1 Call Recovery Location: 28, Austrey Road, Warton, Tamworth, Staffordshire, B79 0HW Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	463	-	428290 303849
32	**Contemporary Trade Directory Entries** Name: 01827 Transport Location: 1 Curlew Cl, Warton, Tamworth, Staffordshire, B79 0HL Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	545	-	428274 303952
33	**Contemporary Trade Directory Entries** Name: L J P Formwork Ltd Location: The Old Pump House, Kisses Barn Lane, Warton, Tamworth, Staffordshire, B79 0JS Classification: Concrete Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	569	-	427971 302608
34	**Contemporary Trade Directory Entries** Name: Edwards Bulk Haulage Location: UNIT 6, STIPERS HILL FARM, KISSES BARN LANE, WARTON, B79 0JS Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	585	-	427545 302633
35	**Contemporary Trade Directory Entries** Name: All Makes Motor Services Ltd Location: 71, Austrey Road, Warton, Tamworth, Staffordshire, B79 0HG Classification: Air Conditioning Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	647	-	428145 304098
36	**Points of Interest - Commercial Services** Name: 01827 Transport Location: 1 Curlew Cl, Warton, Tamworth, Staffordshire, B79 0HL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18SE (NE)	545	8	428274 303952
37	**Points of Interest - Commercial Services** Name: Edwards Bulk Haulage Location: Unit 6 Stipers Hill Farm, Kisses Barn Lane, Warton, B79 0JS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (SW)	585	8	427545 302633
38	**Points of Interest - Commercial Services** Name: All Makes Motor Services Ltd Location: 71 Austrey Road, Warton, Tamworth, B79 0HG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	647	8	428145 304098
39	**Points of Interest - Manufacturing and Production** Name: Lda Quarry Maintenance Ltd Location: 15 Windmill Close, Warton, Tamworth, B79 0JA Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14NW (E)	345	8	428472 303436
40	**Points of Interest - Manufacturing and Production** Name: Workings (Dis) Location: B79 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	493	8	427649 303769

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Points of Interest - Manufacturing and Production** Name: Works Location: B79 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	534	8	427857 303962
41	**Points of Interest - Manufacturing and Production** Name: Tanks Location: B79 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	547	8	427916 303993
42	**Points of Interest - Manufacturing and Production** Name: Solar Panels Location: B79 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	585	8	427243 303335
42	**Points of Interest - Manufacturing and Production** Name: J B & D C Baines Location: Donative Farm, Warton, Tamworth, B79 0JR Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12NW (W)	654	8	427179 303360
43	**Points of Interest - Manufacturing and Production** Name: W R Newbold Location: Kisses Barn Farm, Kisses Barn Lane, Warton, Tamworth, B79 0JS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8SW (S)	753	8	427812 302404
43	**Points of Interest - Manufacturing and Production** Name: W R Newbold Location: Kisses Barn Farm, Warton, Tamworth, B79 0JU Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A8SW (S)	753	8	427811 302404
44	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: B79 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	816	8	427310 303894
44	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: B79 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	816	8	427294 303879
45	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: B79 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18SW (N)	532	8	427878 303967
45	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: B79 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	584	8	427854 304013
45	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: B79 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	606	8	427833 304029
46	**Points of Interest - Recreational and Environmental** Name: Play Area Location: B79 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	111	8	428188 303488

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**Nitrate Vulnerable Zones** Name: River Trent (Source To Confluence With Derwent) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (NW)	0	3	427980 303282
48	**Nitrate Vulnerable Zones** Name: Burton Description: Groundwater Source: Environment Agency, Head Office	A13SE (NW)	0	3	427980 303282
49	**Sites of Special Scientific Interest** Name: Birches Barn Meadows Multiple Areas: N Total Area (m2): 108040.21 Source: Natural England Reference: 2000078 Designation Details: Site Of Special Scientific Interest Designation Date: 31st March 1994 Date Type: Notified	A3NE (S)	954	9	428044 302230

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	November 2023	Annually
Lichfield District Council - Pollution Control	October 2017	Annual Rolling Update
North West Leicestershire District Council - Environmental Protection Department	September 2014	Annual Rolling Update
Hinckley And Bosworth Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
North Warwickshire Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Tamworth Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	October 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Midlands Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	October 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Hinckley And Bosworth Borough Council - Environmental Health Department	December 2020	Variable
North Warwickshire Borough Council - Environmental Health Department	December 2020	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
North West Leicestershire District Council - Environmental Health Department	November 2023	Variable
Tamworth Borough Council - Environmental Health Department	September 2014	Variable
Local Authority Pollution Prevention and Controls		
Hinckley And Bosworth Borough Council - Environmental Health Department	December 2020	Annual Rolling Update
North Warwickshire Borough Council - Environmental Health Department	December 2020	Annual Rolling Update
Lichfield District Council - Environmental Health Department	March 2014	Annual Rolling Update
North West Leicestershire District Council - Environmental Health Department	November 2023	Annual Rolling Update
Tamworth Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Hinckley And Bosworth Borough Council - Environmental Health Department	June 2014	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
North West Leicestershire District Council - Environmental Health Department	November 2023	Variable
North Warwickshire Borough Council - Environmental Health Department	September 2014	Variable
Tamworth Borough Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	
Historical Prosecutions		
Environment Agency, Midlands Region	March 2013	Not Applicable
Registered Radioactive Substances		
Environment Agency - Head Office	May 2023	
Environment Agency - Midlands Region	May 2023	
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - Central Area	October 2024	Quarterly
Environment Agency - Midlands Region - East Area	October 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2024	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	October 2024	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	October 2017	
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified

Data Currency

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	October 2024	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
Water Framework Directive - Catchment Environment Agency - Head Office	July 2024	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

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	October 2024	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - Central Area	November 2024	Quarterly
Environment Agency - Midlands Region - East Area	November 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	November 2024	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	November 2024	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - Central Area	October 2024	Quarterly
Environment Agency - Midlands Region - East Area	October 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2024	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	October 2024	Quarterly
Local Authority Landfill Coverage		
Hinckley And Bosworth Borough Council - Environmental Health Department	February 2003	Not Applicable
Leicestershire County Council	February 2003	Not Applicable
Lichfield District Council	February 2003	Not Applicable
North Warwickshire Borough Council - Environmental Health Department	February 2003	Not Applicable
North West Leicestershire District Council - Environmental Health Department	February 2003	Not Applicable
Staffordshire County Council - Waste Management	February 2003	Not Applicable
Tamworth Borough Council - Environmental Health Department	February 2003	Not Applicable
Warwickshire County Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Hinckley And Bosworth Borough Council - Environmental Health Department	October 2018	
Leicestershire County Council	October 2018	
Lichfield District Council	October 2018	
North Warwickshire Borough Council - Environmental Health Department	October 2018	
North West Leicestershire District Council - Environmental Health Department	October 2018	
Staffordshire County Council - Waste Management	October 2018	
Tamworth Borough Council - Environmental Health Department	October 2018	
Warwickshire County Council	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 - Midlands Region - Central Area	March 2006	Not Applicable
Environment Agency - Midlands Region - East Area	March 2006	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2006	Not Applicable
Environment Agency - Midlands Region - Upper Trent Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Central Area	April 2018	
Environment Agency - Midlands Region - East Area	April 2018	
Environment Agency - Midlands Region - Lower Trent Area	April 2018	
Environment Agency - Midlands Region - Upper Trent Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Central Area	June 2015	
Environment Agency - Midlands Region - East Area	June 2015	
Environment Agency - Midlands Region - Lower Trent Area	June 2015	
Environment Agency - Midlands Region - Upper Trent Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2024	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		
Staffordshire County Council	April 2023	Variable
Hinckley And Bosworth Borough Council	February 2016	Variable
Warwickshire County Council	July 2007	Annual Rolling Update
Leicestershire County Council	July 2023	Variable
Lichfield District Council - Planning Department	July 2023	Variable
Tamworth Borough Council	June 2023	Variable
North Warwickshire Borough Council - Planning Administration	May 2023	Variable
North West Leicestershire District Council	May 2023	Variable
Planning Hazardous Substance Consents		
Staffordshire County Council	April 2023	Variable
Hinckley And Bosworth Borough Council	February 2016	Variable
Leicestershire County Council	February 2016	Variable
Lichfield District Council - Planning Department	February 2016	Variable
North West Leicestershire District Council	February 2016	Variable
Tamworth Borough Council	February 2016	Variable
North Warwickshire Borough Council - Planning Administration	January 2016	Variable
Warwickshire County Council	July 2007	Annual Rolling Update

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	March 2024	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	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	September 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	November 2024	Bi-Annually
Areas of Adopted Green Belt		
Hinckley And Bosworth Borough Council	July 2024	Quarterly
Lichfield District Council	July 2024	Quarterly
North Warwickshire Borough Council - Planning Administration	July 2024	Quarterly
North West Leicestershire District Council	July 2024	Quarterly
Tamworth Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt		
Hinckley And Bosworth Borough Council	July 2024	Quarterly
Lichfield District Council	July 2024	Quarterly
North Warwickshire Borough Council - Planning Administration	July 2024	Quarterly
North West Leicestershire District Council	July 2024	Quarterly
Tamworth Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	November 2024	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2023	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	August 2024	Bi-Annually
Marine Nature Reserves		
Natural England	August 2024	Bi-Annually
National Nature Reserves		
Natural England	August 2024	Bi-Annually
National Parks		
Natural England	September 2024	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	November 2024	Bi-Annually
Ramsar Sites		
Natural England	August 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2024	Bi-Annually
Special Areas of Conservation		
Natural England	October 2024	Bi-Annually
Special Protection Areas		
Natural England	November 2024	Bi-Annually

Data Suppliers

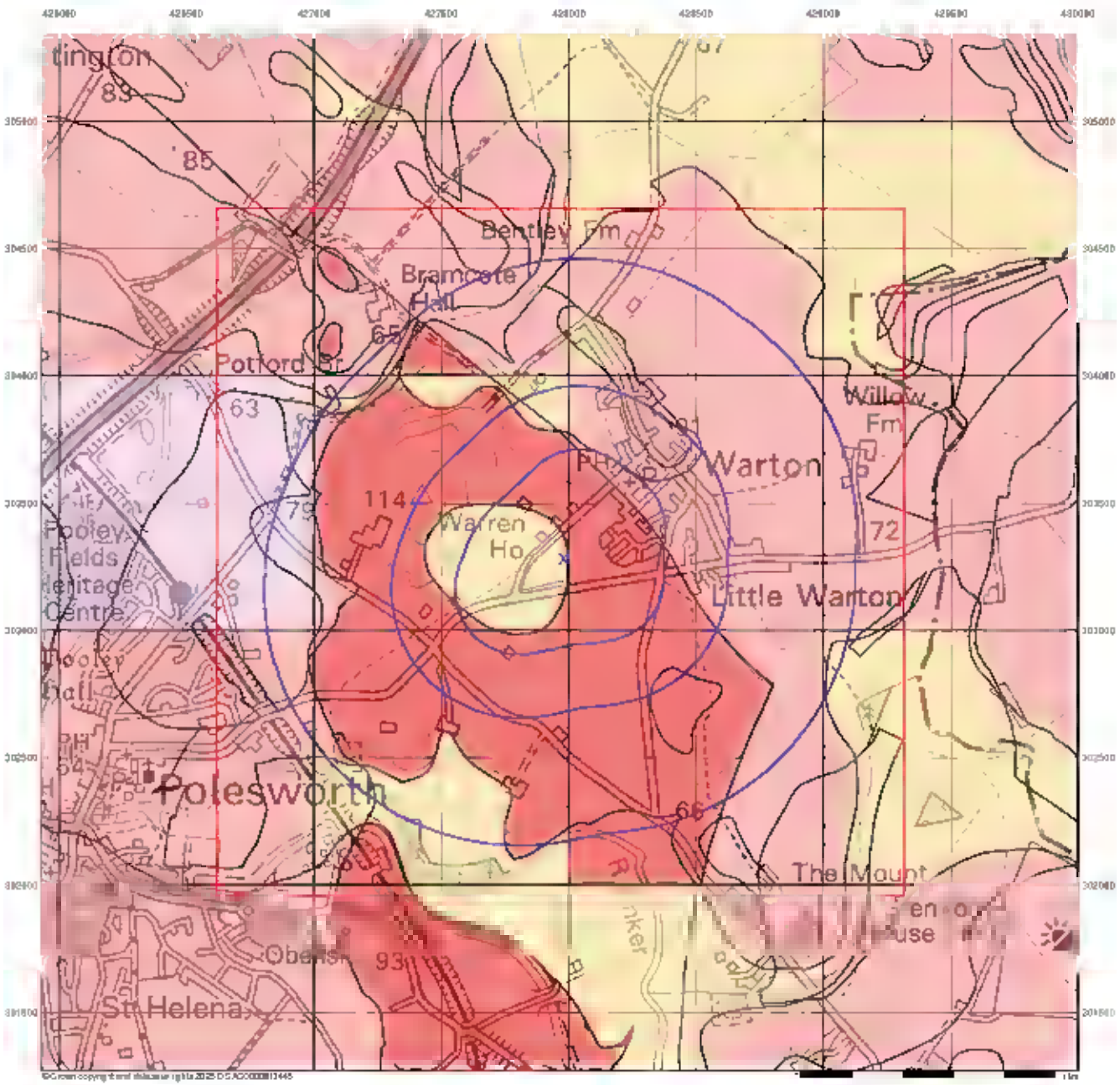
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	**North Warwickshire Borough Council - Environmental Health Department** P O Box 6, Old Bank House, 129 Long Street, Atherstone, North Warwickshire, CV9 1BG	Telephone: 01827 715341 Fax: 01827 719399 Website: www.northwarks.gov.uk
6	**Warwickshire County Council** PO Box 43, Shire Hall, Warwick, Warwickshire, CV34 4SX	Telephone: 01926 410410 Website: www.warwickshire.gov.uk
7	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	**PointX** 5-6 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
-	**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** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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LANDMARK INFORMATION GROUP

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A

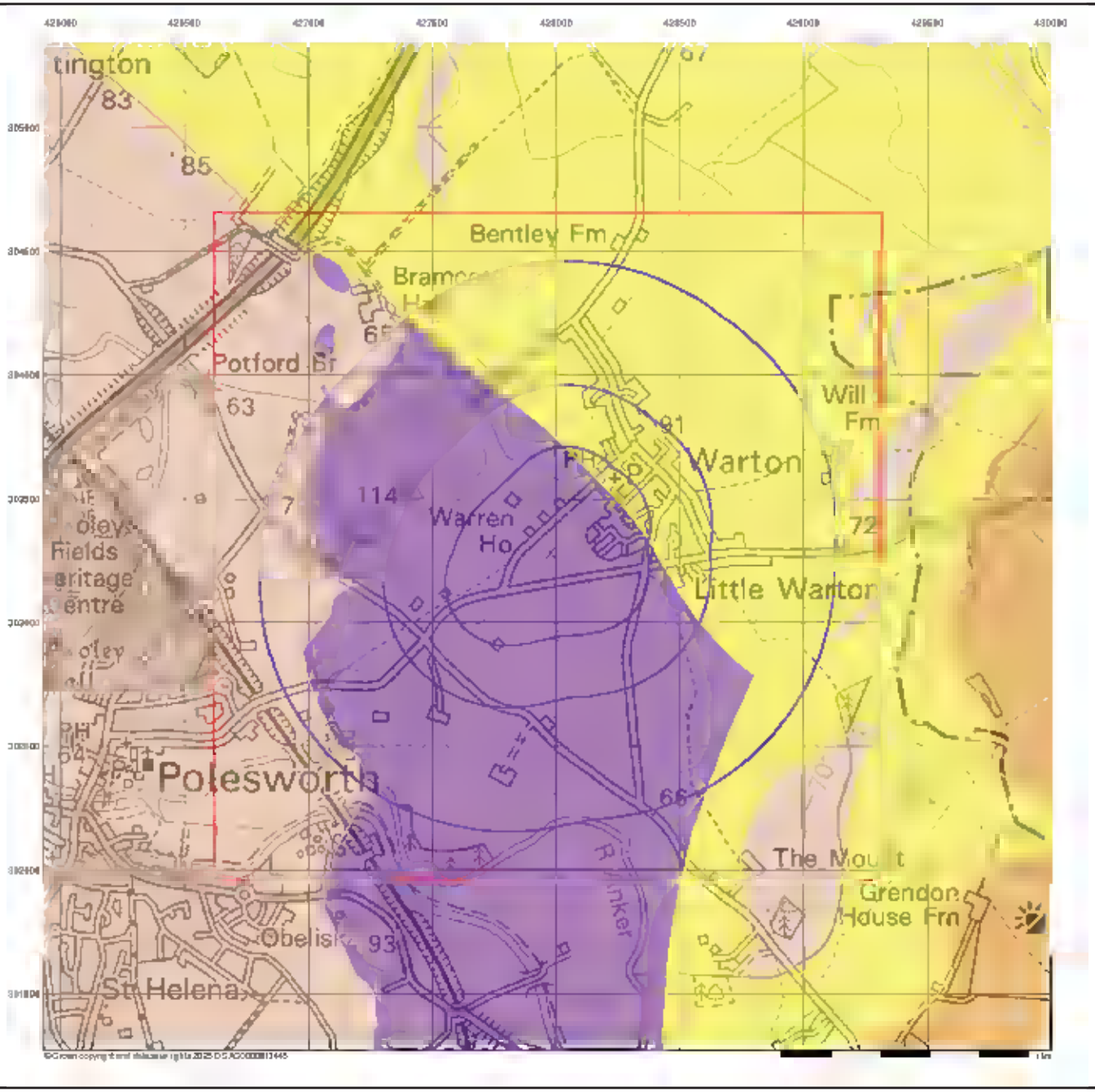
Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP

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)

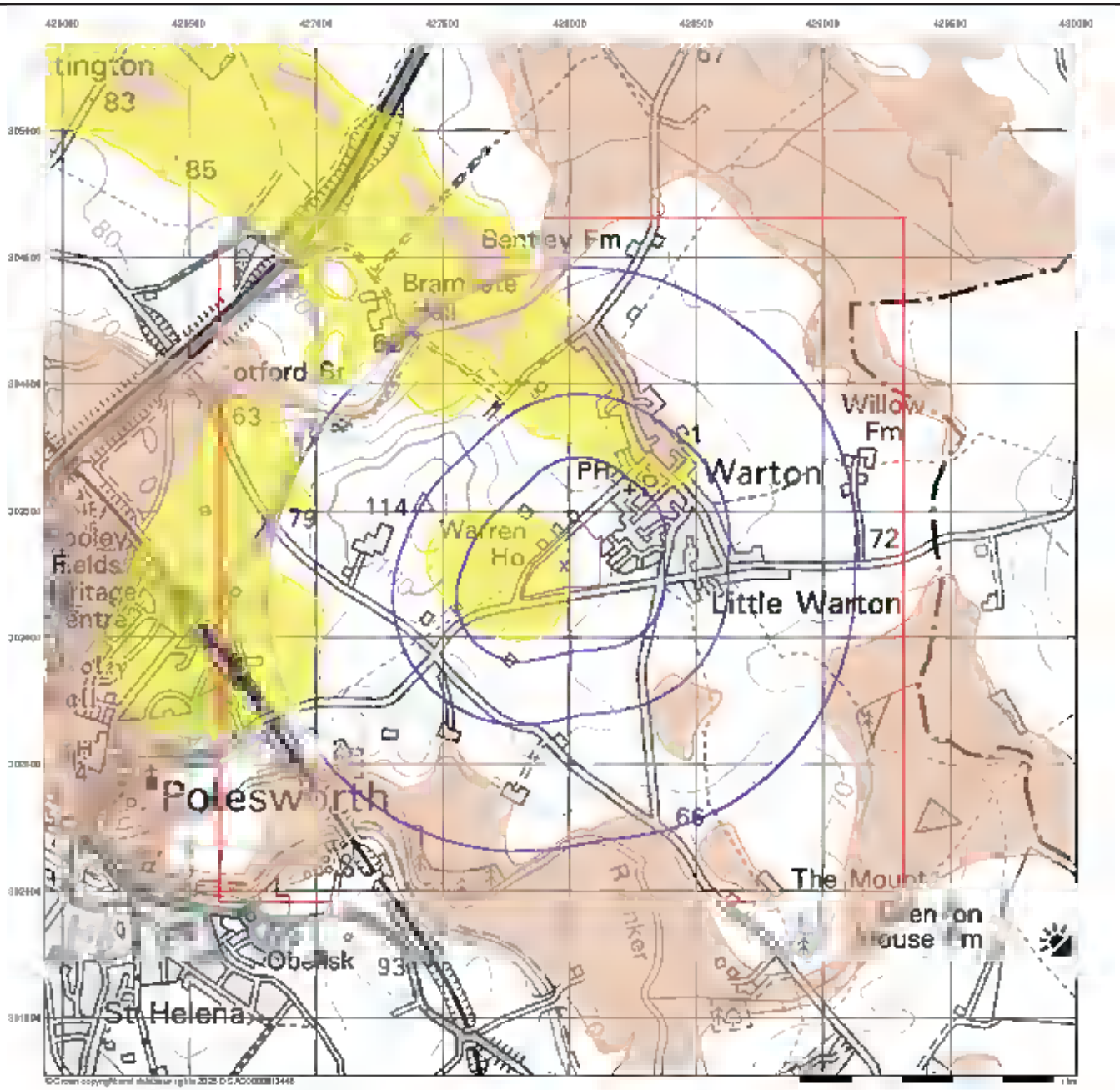
Site Sensitivity Context Map - Slice A

Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton



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LANDMARK INFORMATION GROUP

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

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

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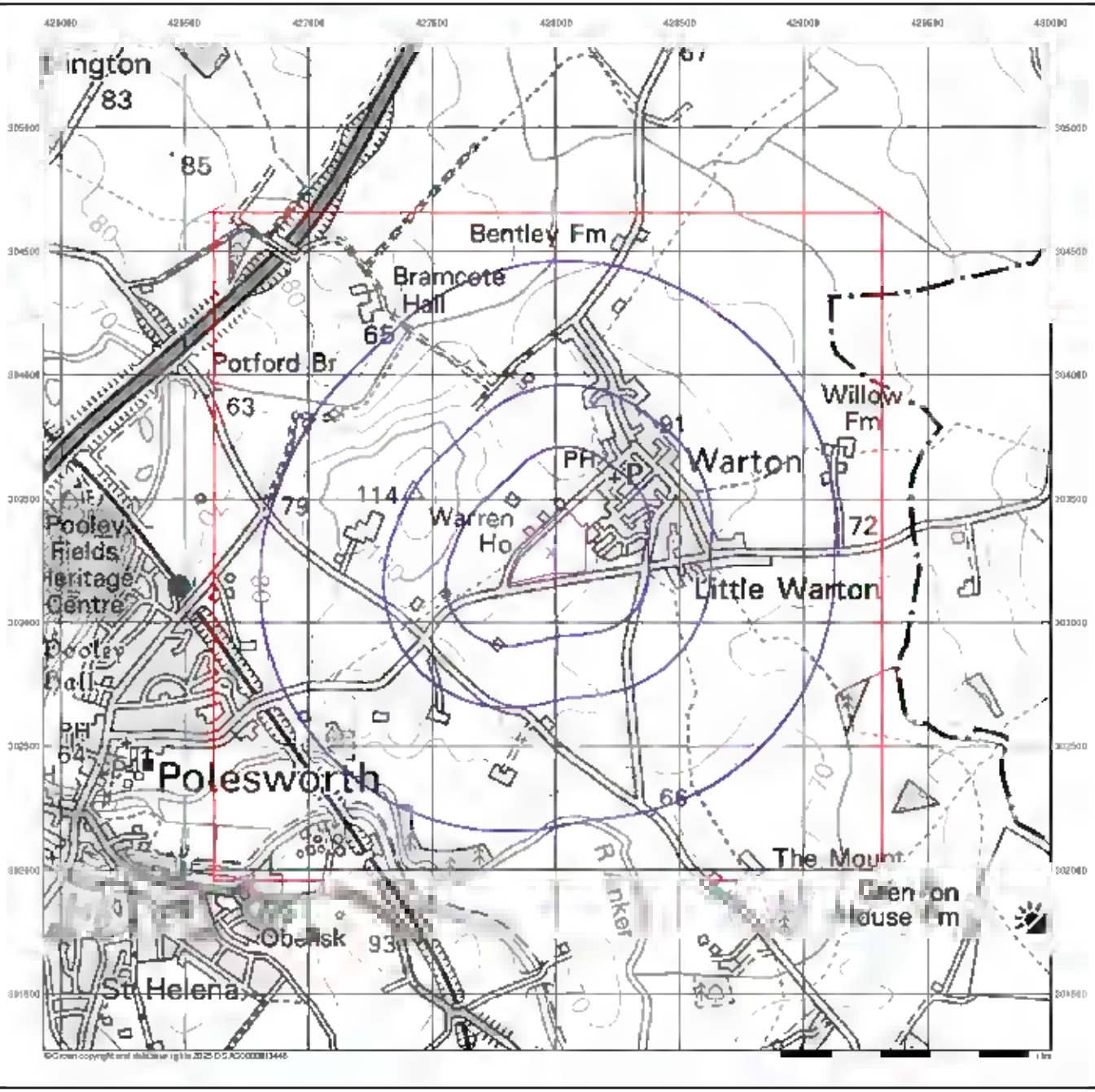

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LANDMARK INFORMATION GROUP

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

Order Details

Order Number:	366474854_1_1
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National Grid Reference:	427980, 303280
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Search Buffer (m):	1000

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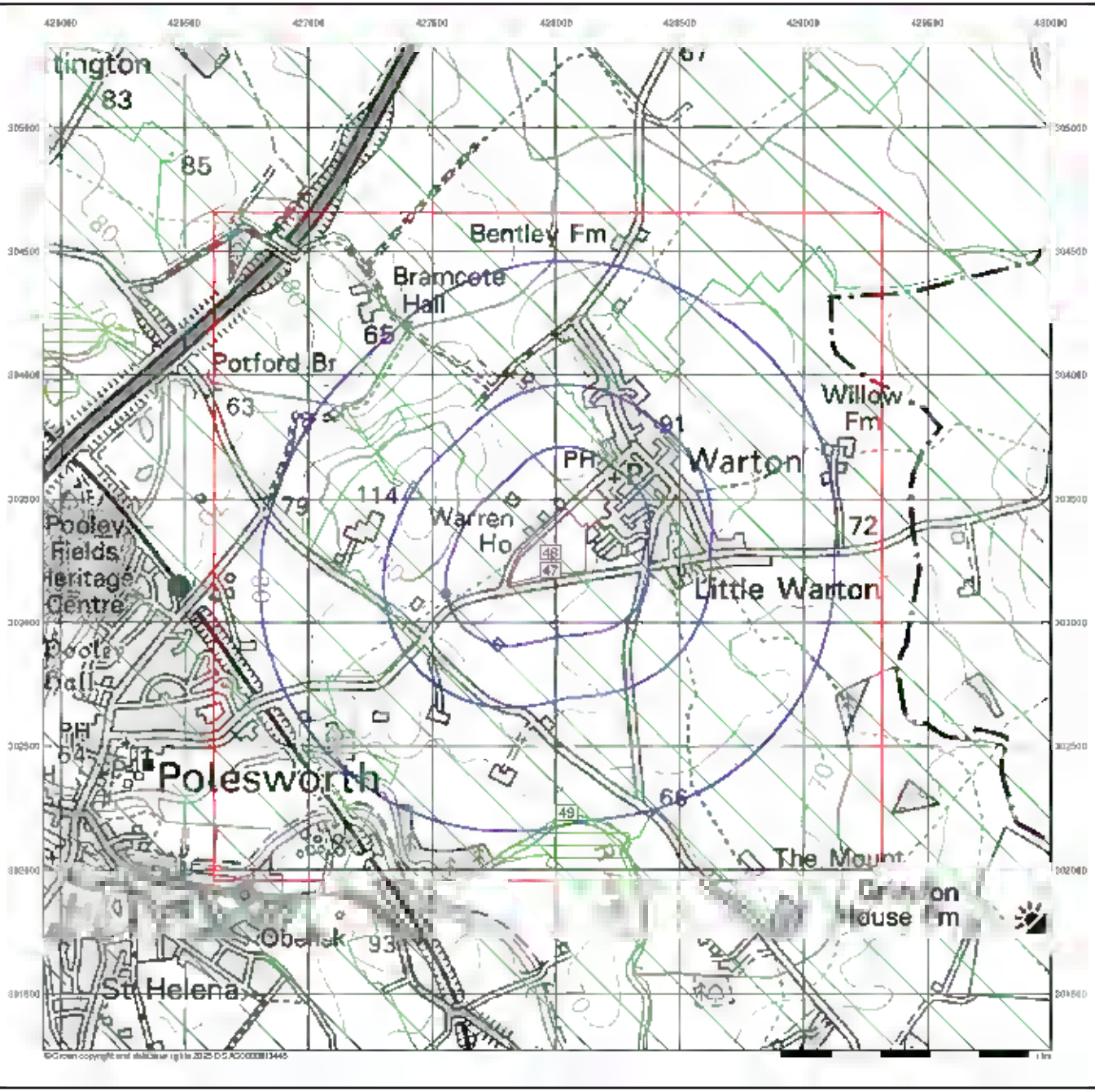

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LANDMARK INFORMATION GROUP

Sensitive Land Uses

General

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

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted 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

Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

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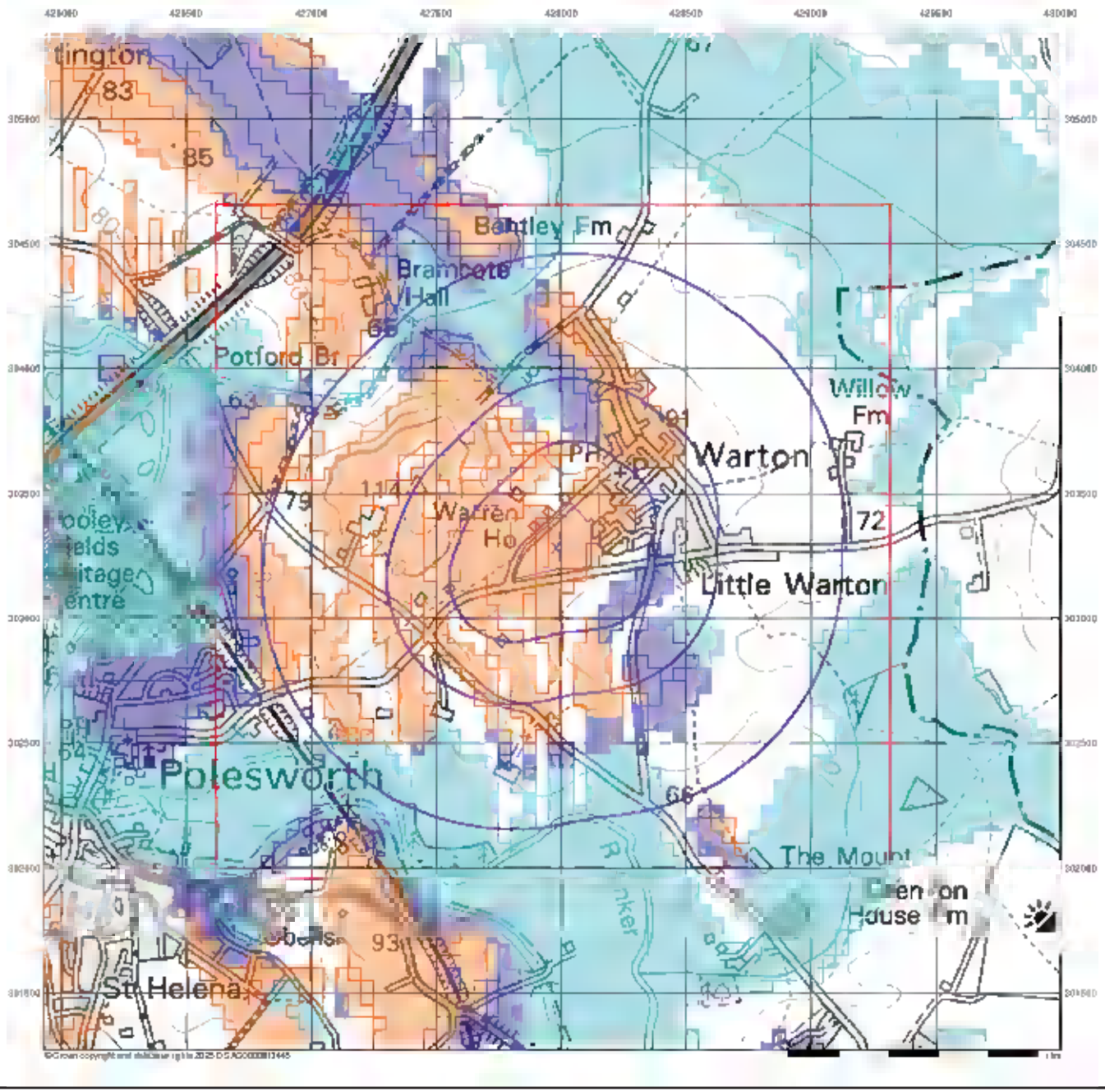

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LANDMARK INFORMATION GROUP

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

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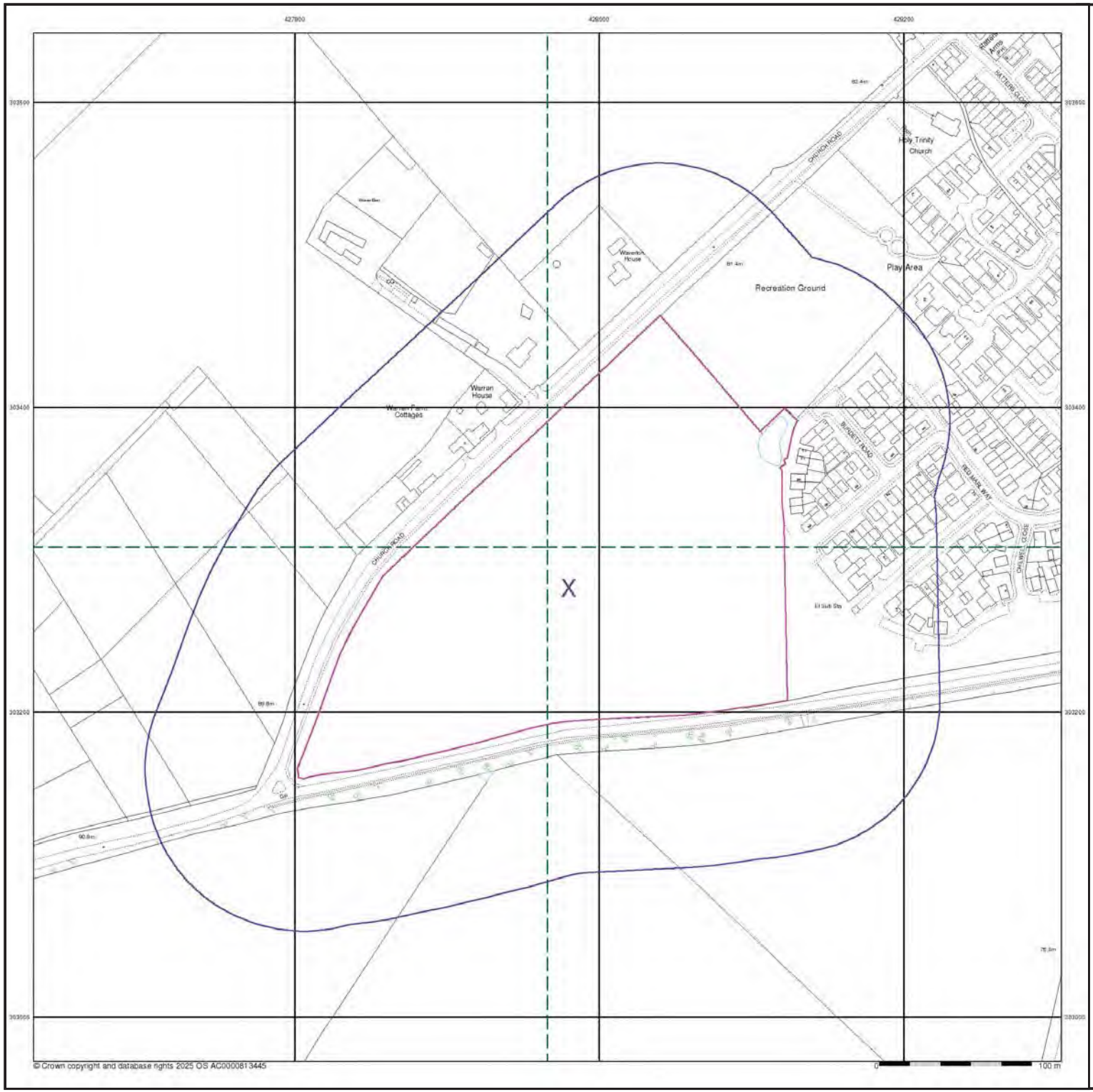
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID
Several or Type of Location | Pylon | Overhead Transmission Line

Agency and Hydrological

Consented Land Register Entry or Notice (Lessee)
Consented 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
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Refuse Tip)
EA Historic Landfill (Region)
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)
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Part Buffered to 250m)
Registered Landfill Site (Part 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

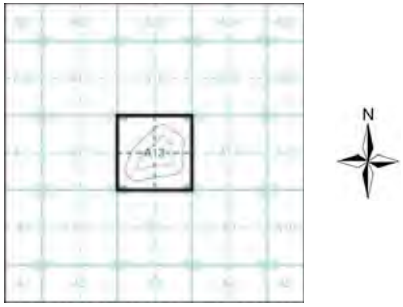
Hazardous Substances

COMAH Site | Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Geological

BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Plot Buffer (m):	100

Site Details

Land off Orton Road, Warton

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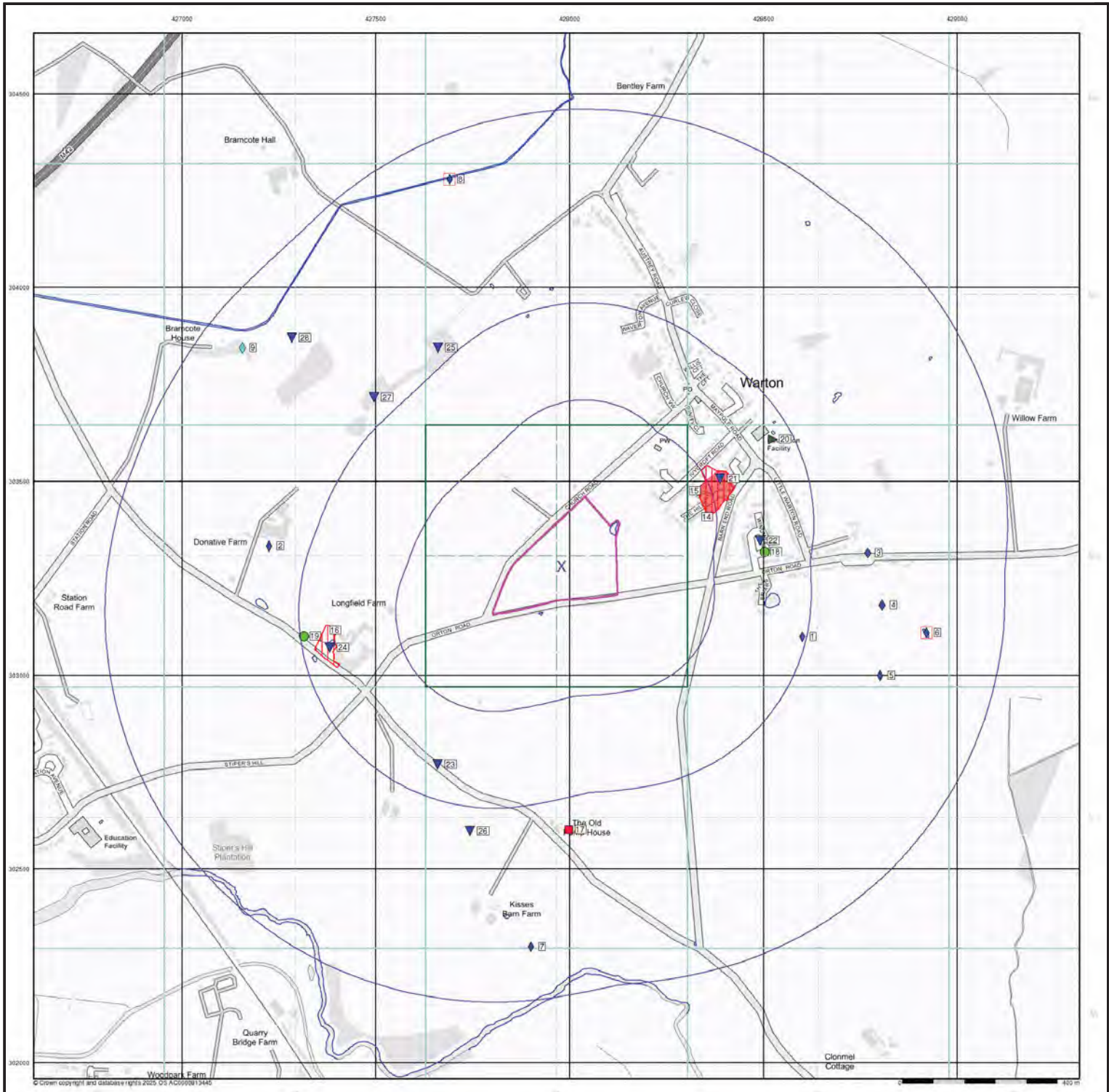

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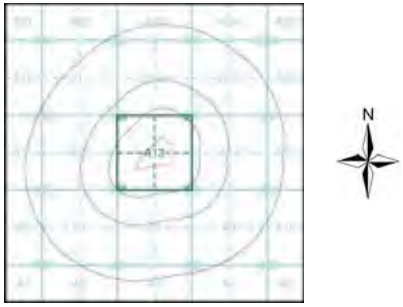
LANDMARK INFORMATION GROUP

Site Sensitivity Map - Slice A



Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

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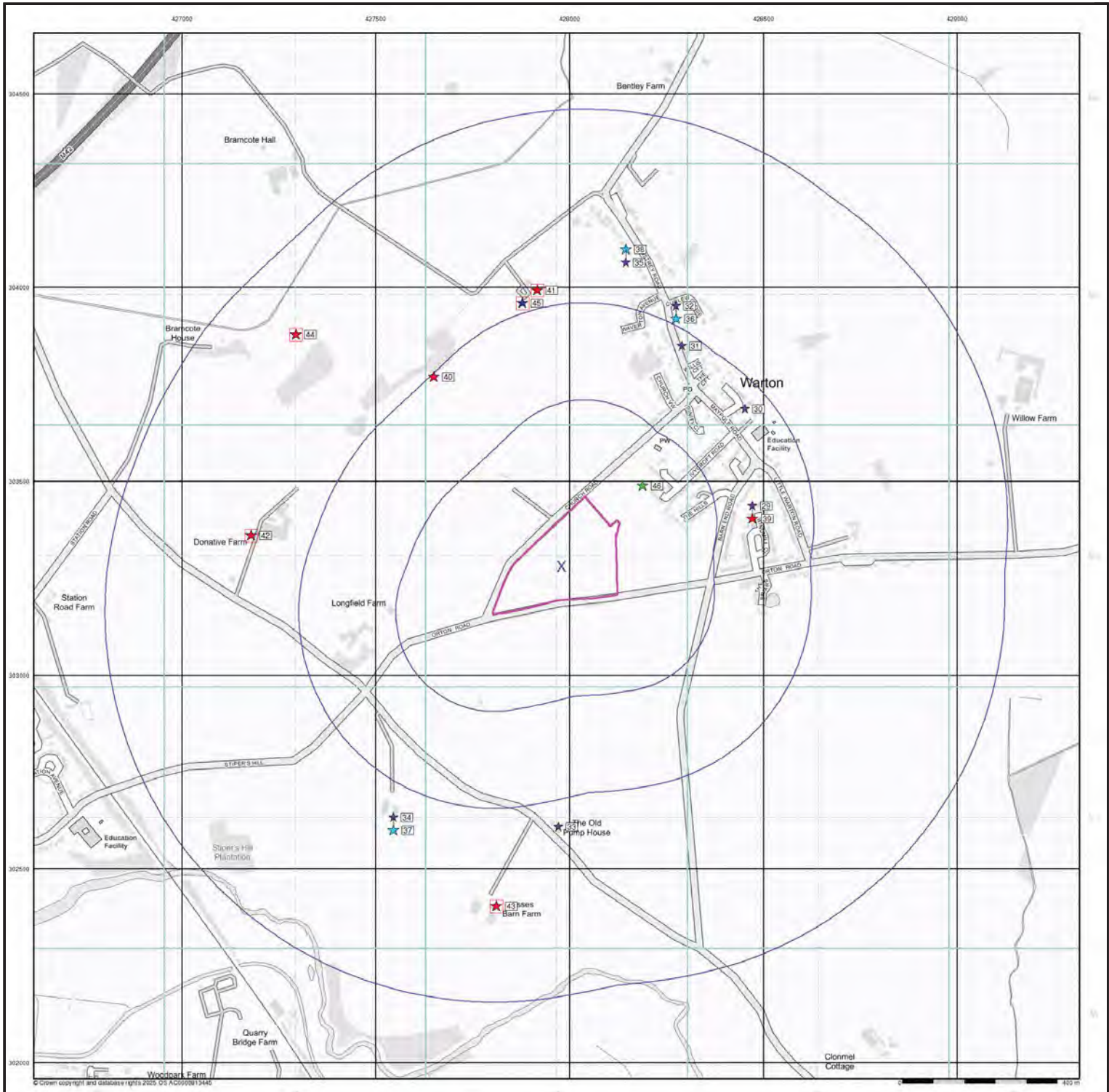
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP

Industrial Land Use Map

General

Supplied Site | Specified Buffer(s) | Mapping Reference Point

Slice | Map ID

Industrial Land Use

Contemporary Trade Directory Entry

Fuel Station Entry

Points of Interest - Commercial Services

Points of Interest - Education and Health

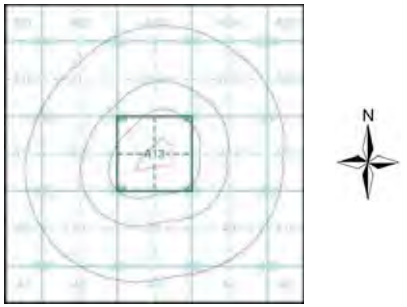
Points of Interest - Manufacturing and Production

Points of Interest - Public Infrastructure

Points of Interest - Recreational and Environmental

Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

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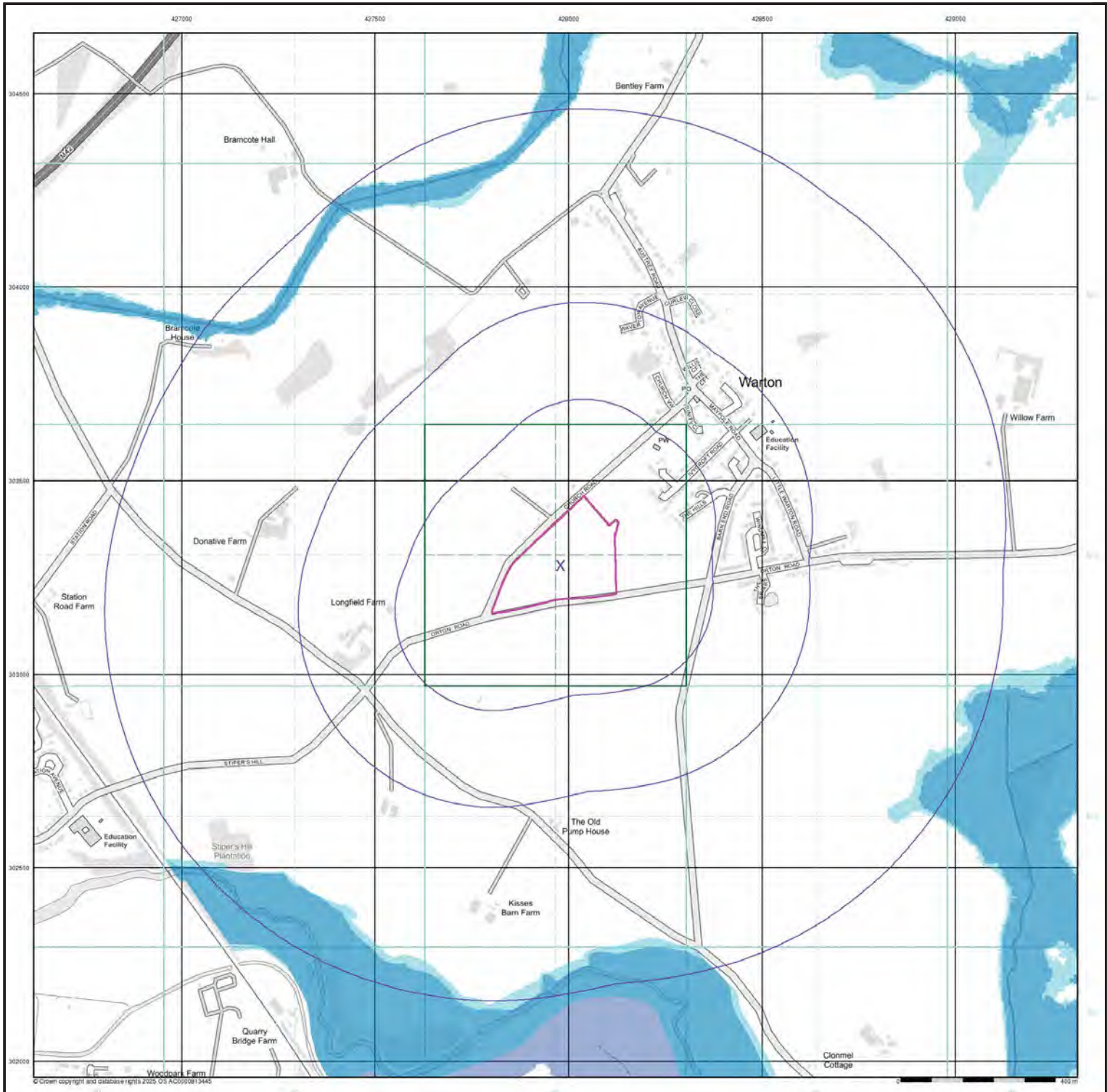

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LANDMARK INFORMATION GROUP

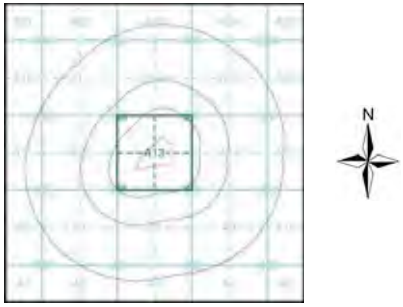
General

- Specified Site
- Specified Element(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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

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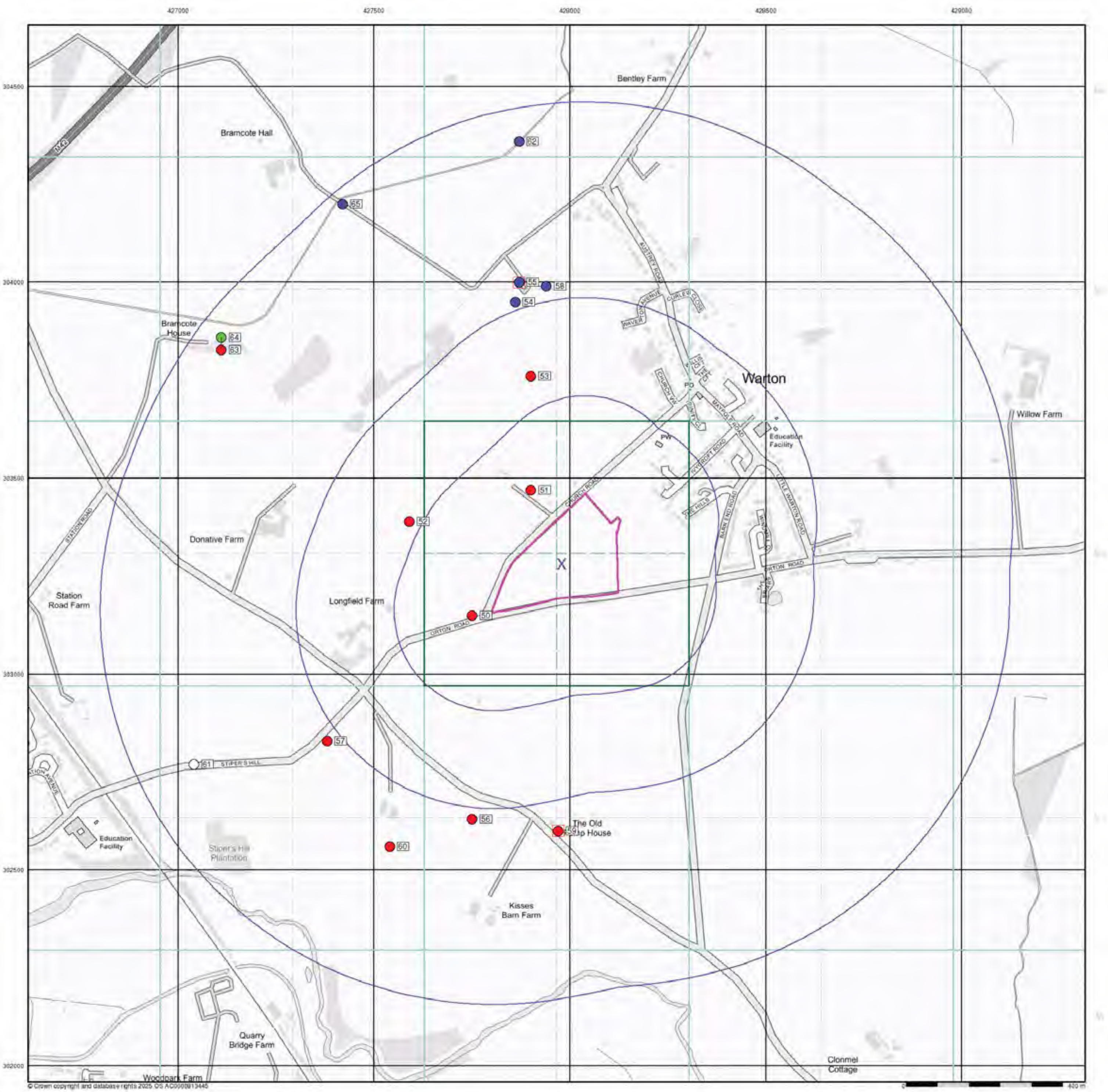
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

LANDMARK INFORMATION GROUP®

General

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

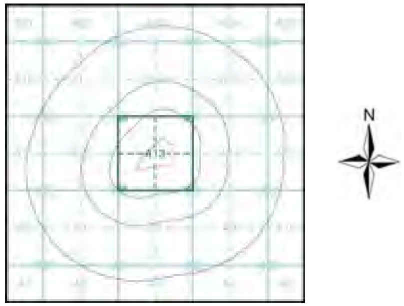
Agency and Hydrological (Boreholes)

- 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

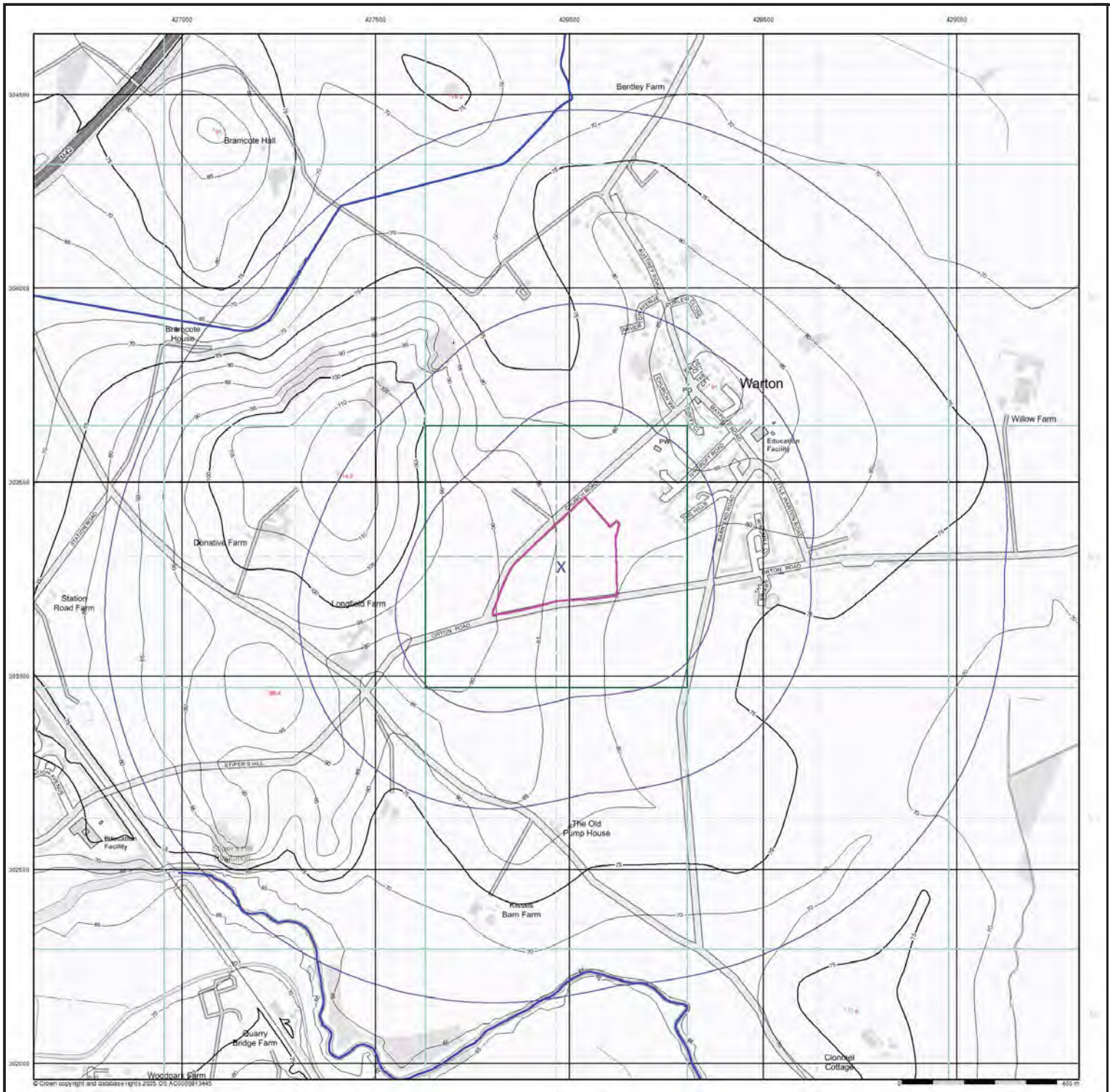


Order Details

Order Number: 366474854_1_1
Customer Ref: 294-24-087
National Grid Reference: 427980, 303280
Slice: A
Site Area (Ha): 5.63
Search Buffer (m): 1000

Site Details

Land off Orton Road, Warton



Envirocheck

LANDMARK INFORMATION GROUP

General

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

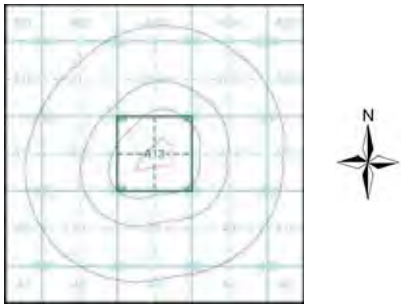
OS Water Network Data

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

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLWS Mean Low Water
- MHWS Mean High Water

OS Water Network Map - Slice A



Order Details

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Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

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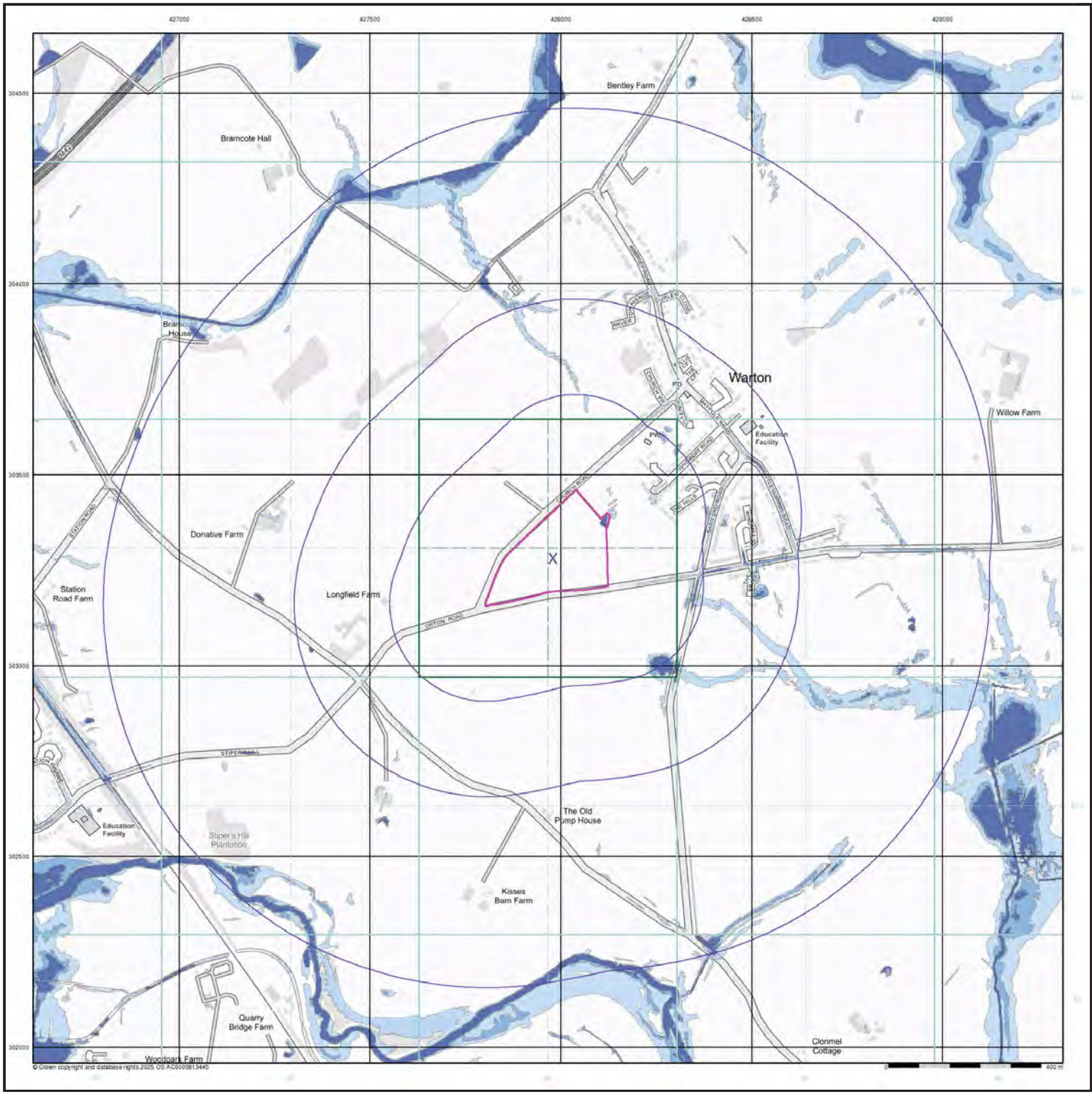
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck

LANDMARK INFORMATION GROUP

General

Specified Site

Specified Element(s)

Easting 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

Preferred to county

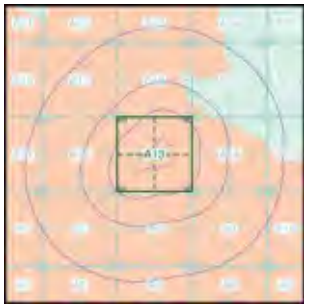
County to town

Town to target

Great to parcels of land

Property

EA/NRW Suitability Map - Slice A



Order Details

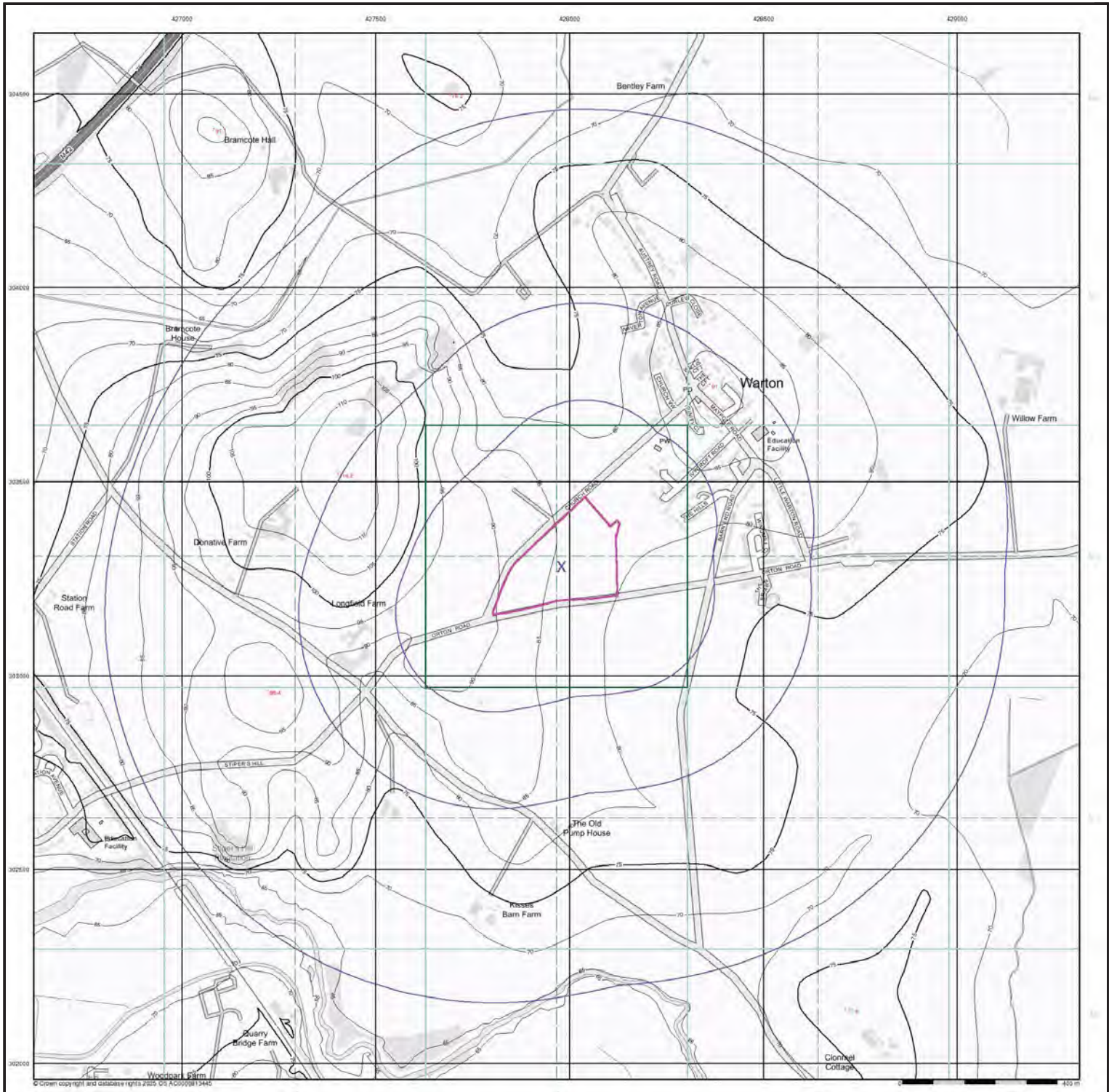
Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck

LANDMARK INFORMATION GROUP

WFD Surface Waters Map

General

Specified Site | Specified Buffer(s) | Starting Reference Point
Slice | Map ID

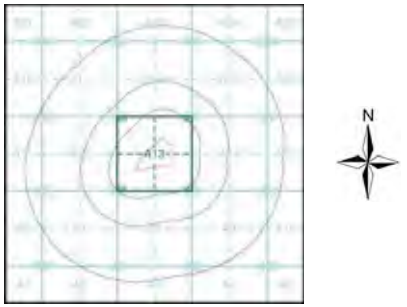
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in metres)

Standard Contour | Mean Low Water
Master Contour | Mean High Water
Spot Height

WFD Surface Waters Map - Slice A



Order Details

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Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
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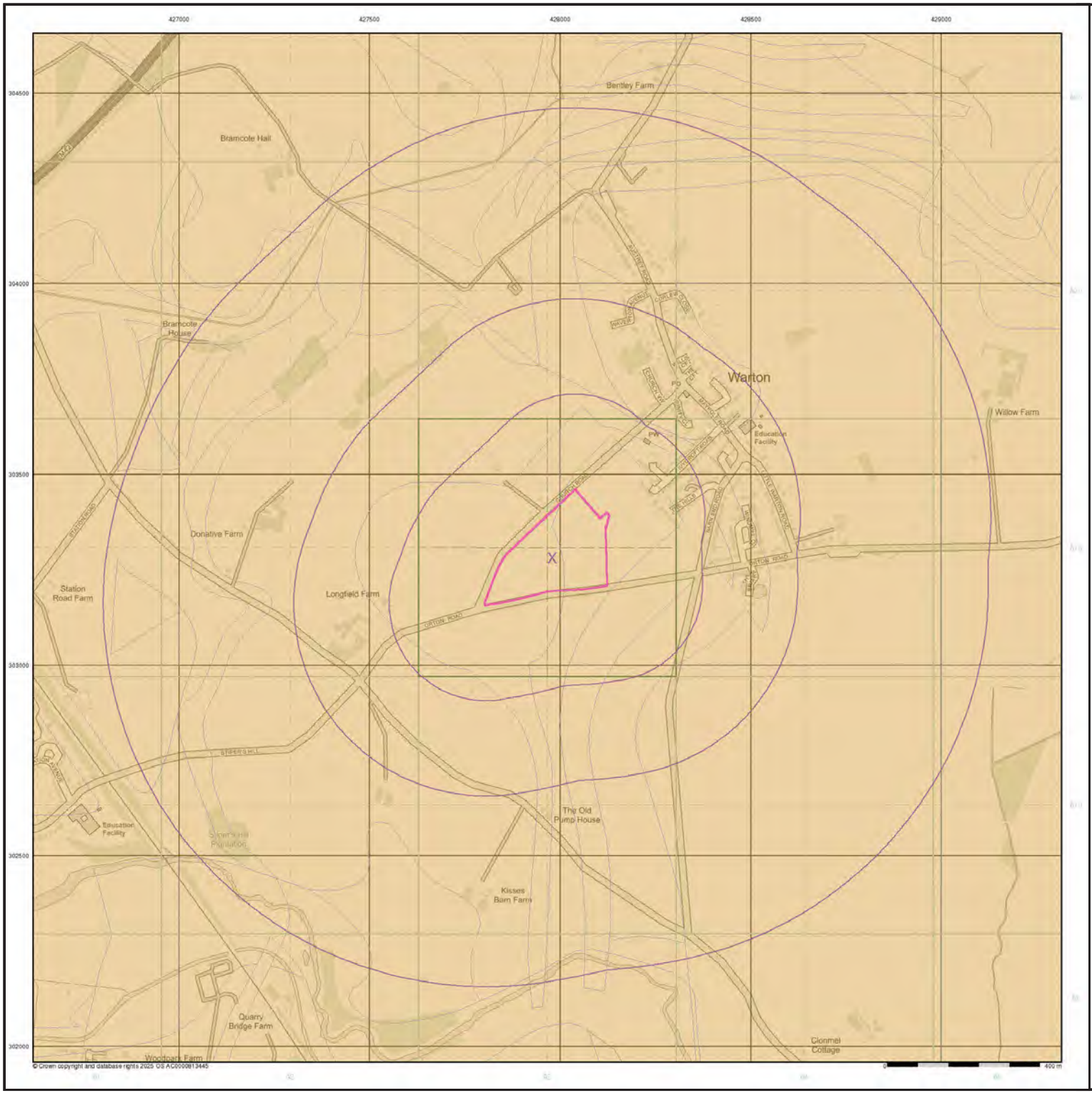


Envirocheck

LANDMARK INFORMATION GROUP

General

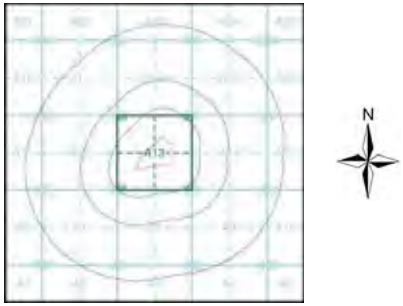
Specified Site Specified Search(es) Clearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



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Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
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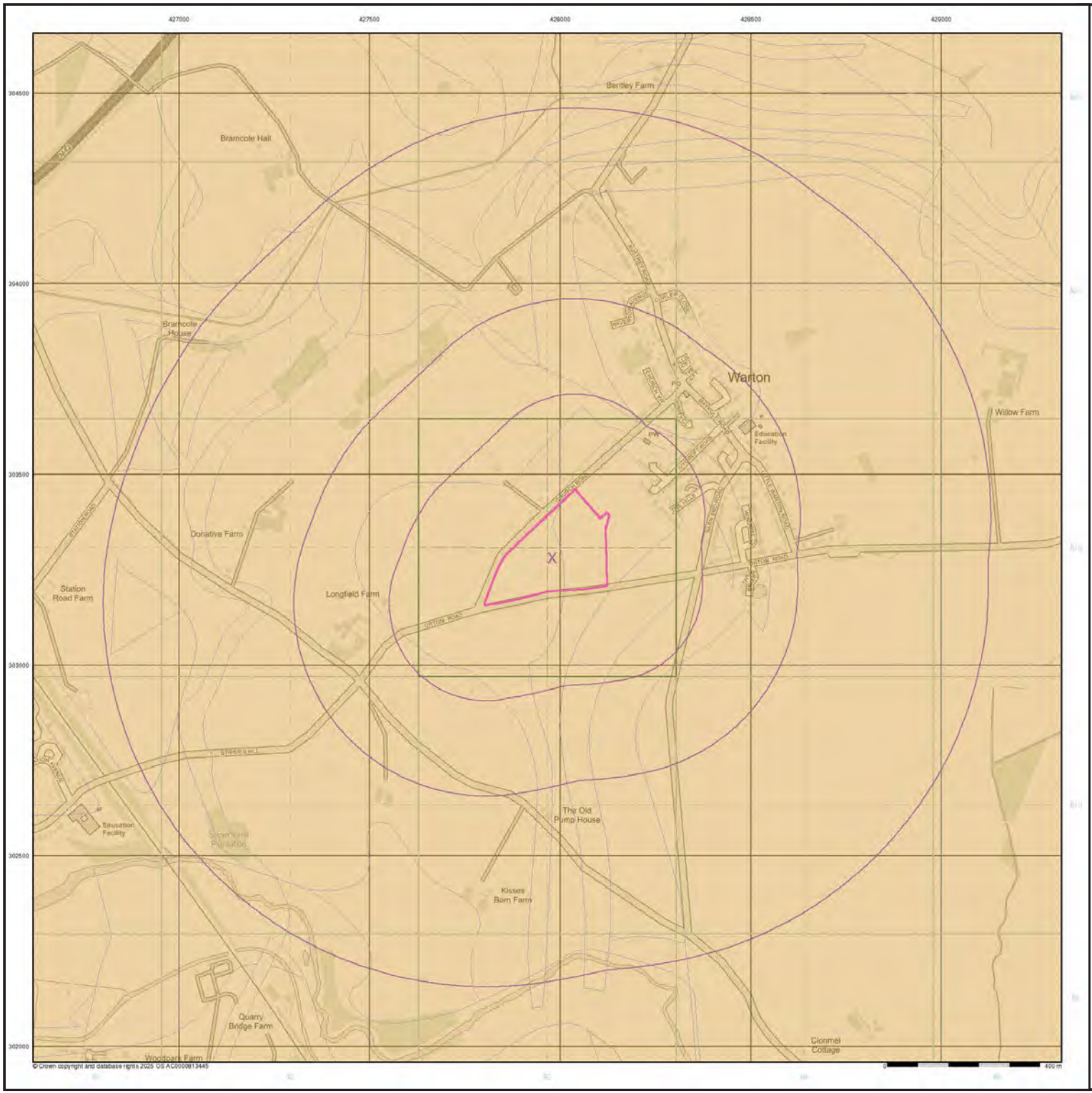


Envirocheck

LANDMARK INFORMATION GROUP

General

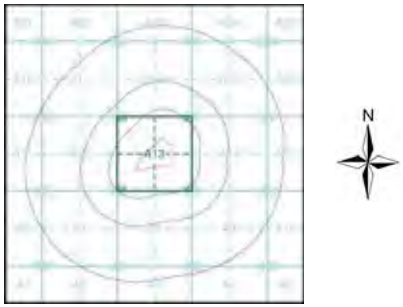
Specified Site Specified Buffer(s) Bearing /Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Chloride soil extract mg/kg

- <1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



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Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
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Land off Orton Road, Warton

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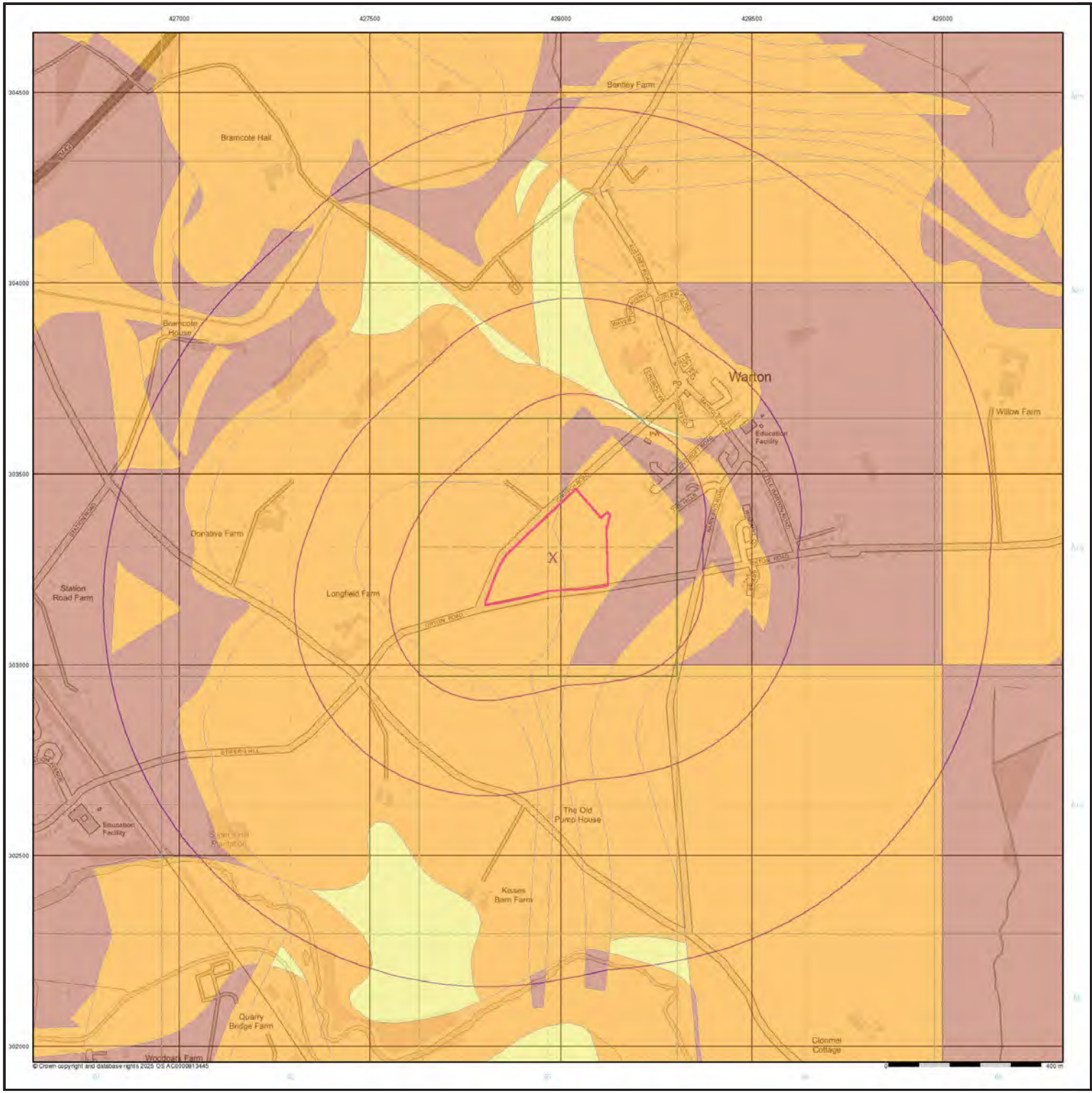

Envirocheck

LANDMARK INFORMATION GROUP

General

Estimated Soil Chemistry Chromium

Chromium Concentration mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A

Order Details

Order Details:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

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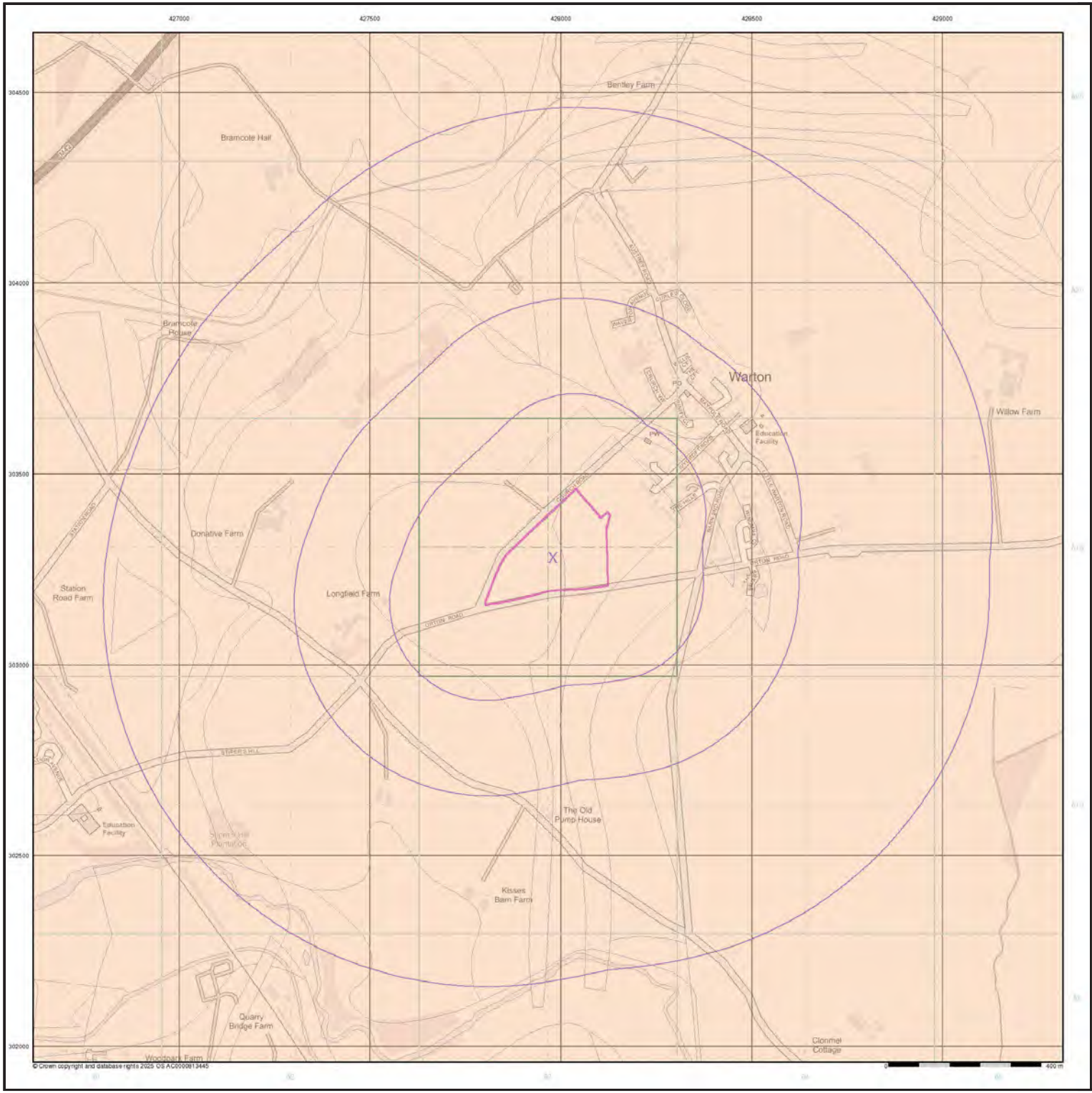
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck

LANDMARK INFORMATION GROUP

General

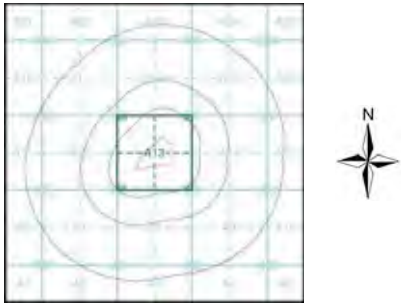
Search Red Site Search Red Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details:	366474854_1_1
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Slice:	A
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Site Details

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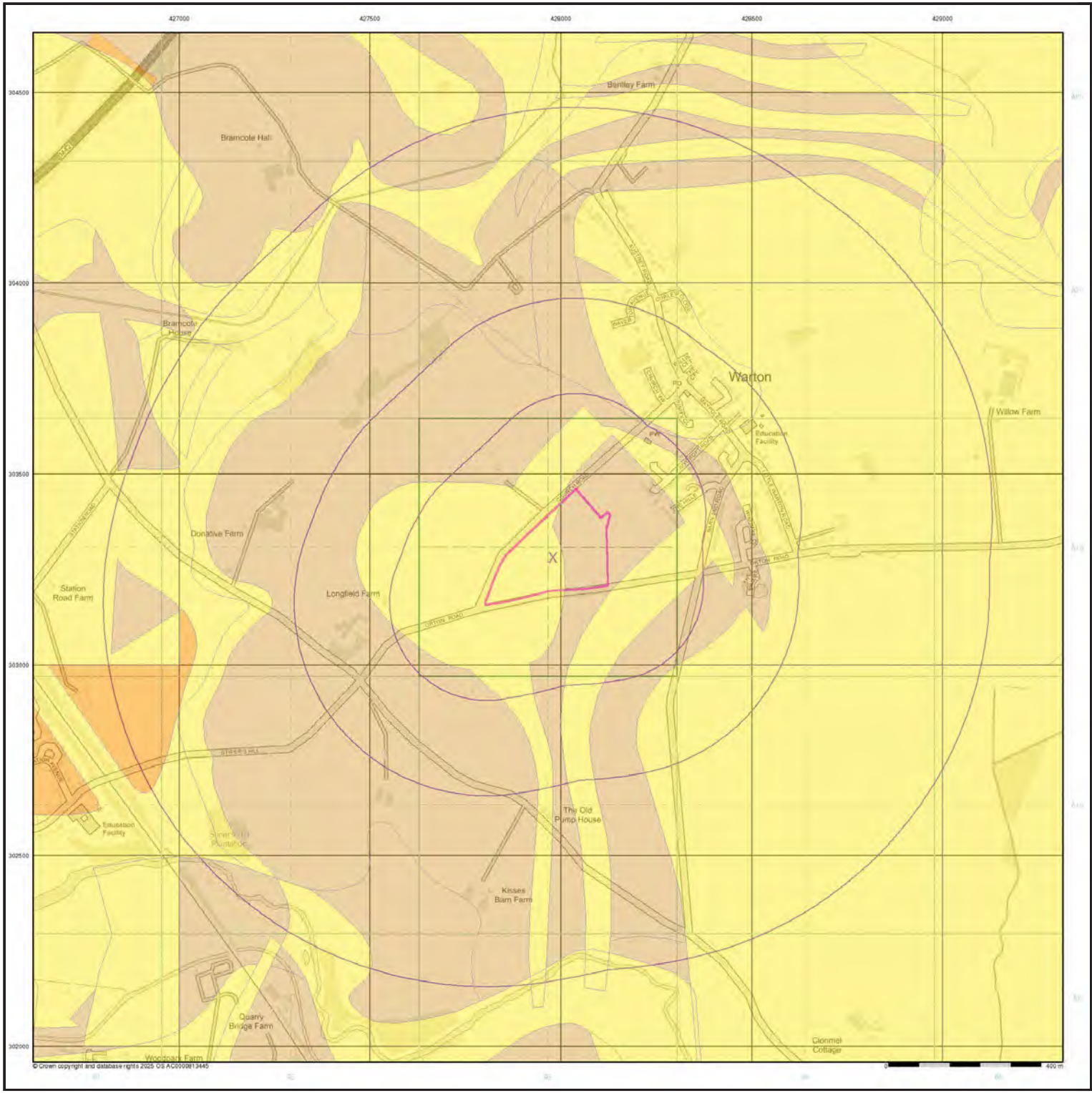
Web: www.envirocheck.co.uk



Envirocheck

LANDMARK INFORMATION GROUP

General

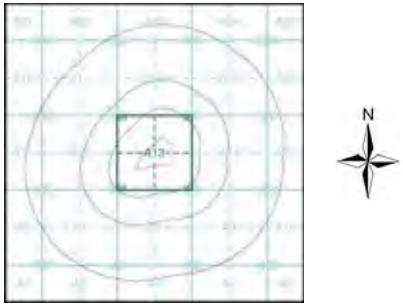
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations (mg/kg)

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



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Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

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Web: www.envirocheck.co.uk

APPENDIX IV

COAL AUTHORITY CONSULTANTS COAL MINING REPORT

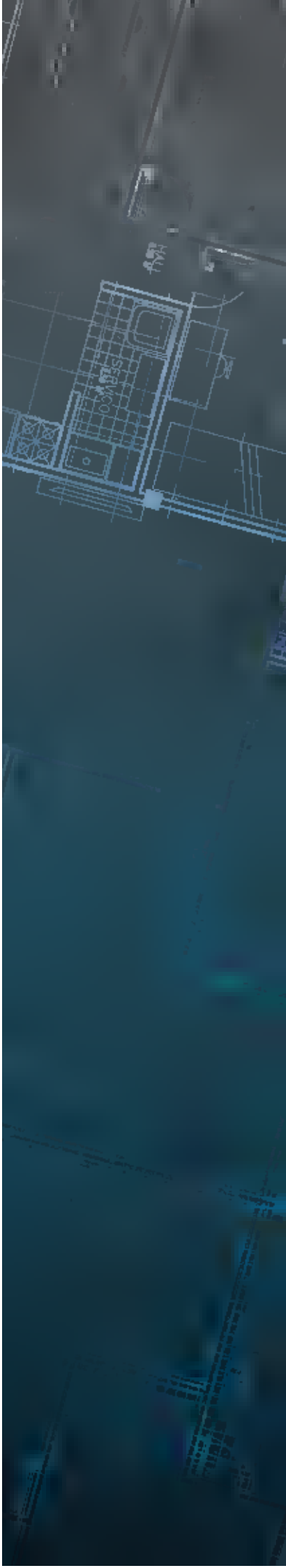
The Coal Authority

Consultants

Coal Mining Report

Land Off Orton Road
Warton
Lancashire

Date of enquiry:	**6 January 2025**
Date enquiry received:	**6 January 2025**
Issue date:	**6 January 2025**
Our reference:	**51003471342001**
Your reference:	**366474854_2**



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Land Off Orton Road
Warton
Lancashire

Approximate position of property

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
NORTH WARWICK	BENCH	Coal	4S2C	209	West	8.7	North	122	1954

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

WMW335		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where a notice to withdraw support was given in 1946.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

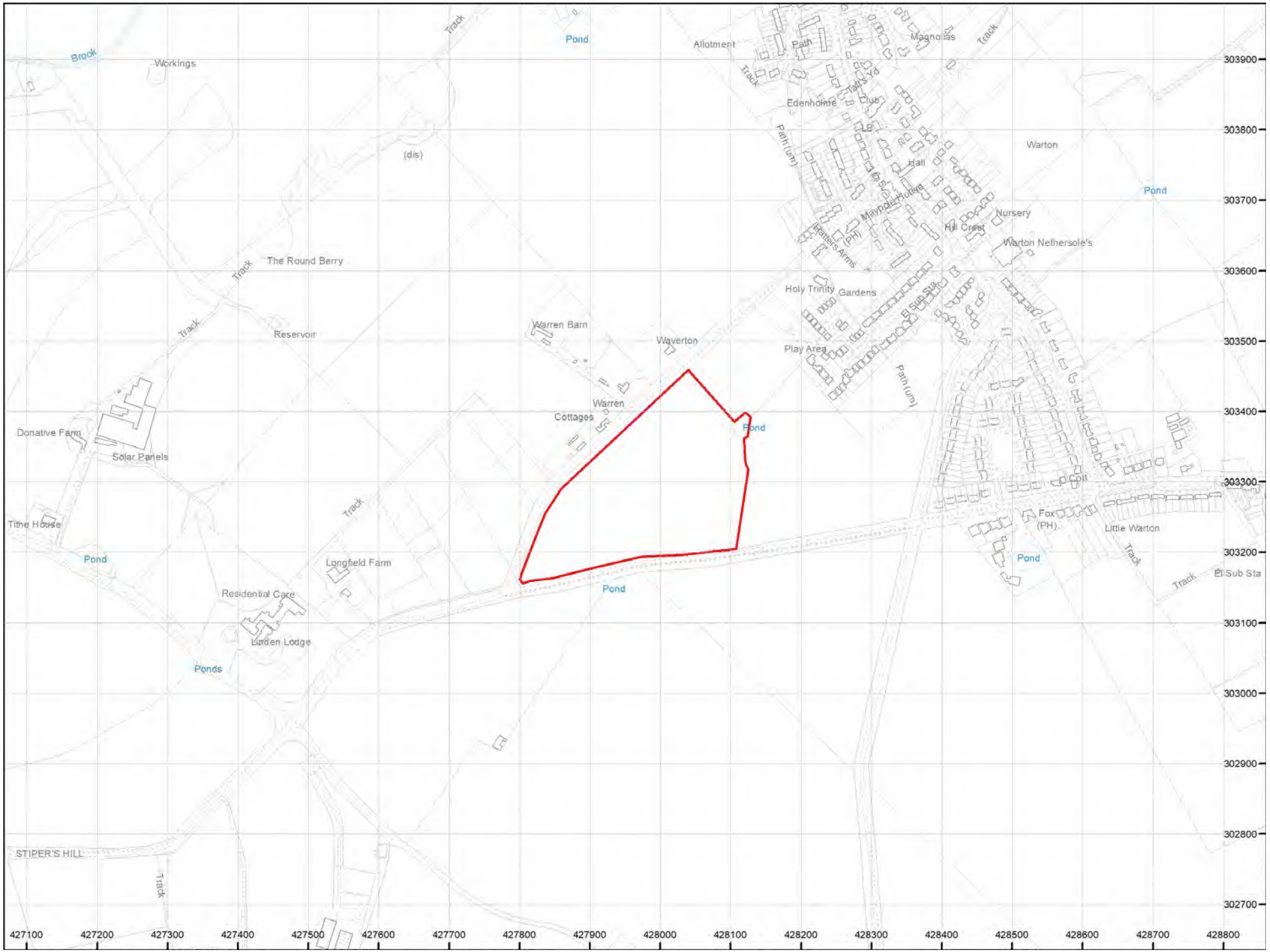
The Coal Authority

Summary of findings

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown



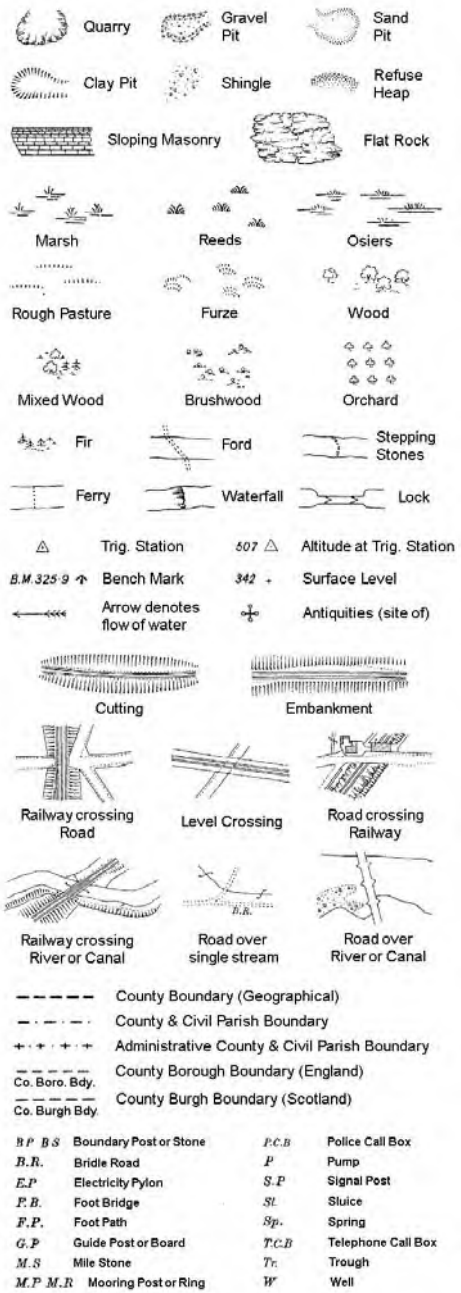
How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX V

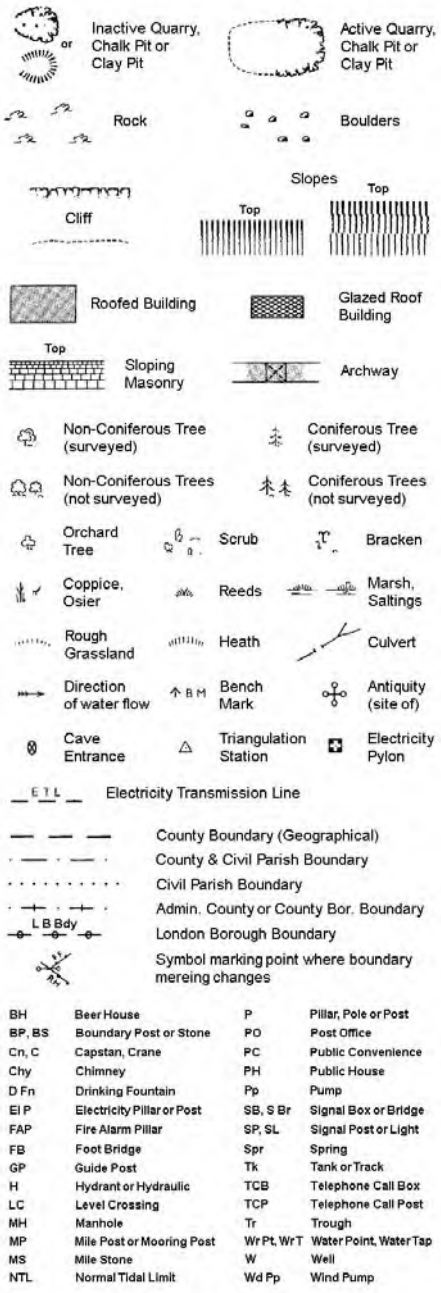
HISTORICAL MAP EXTRACTS

Historical Mapping Legends

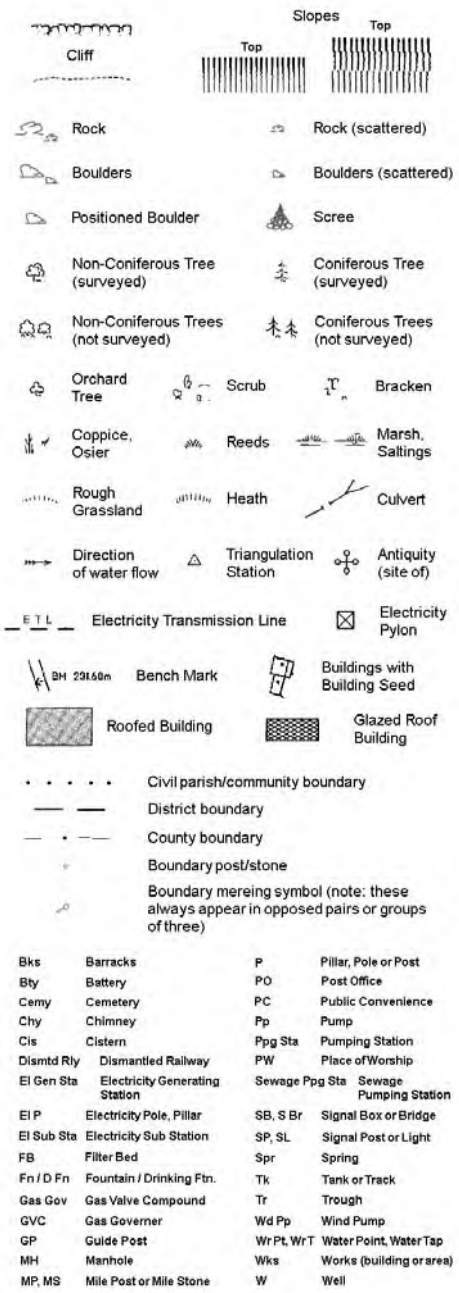
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

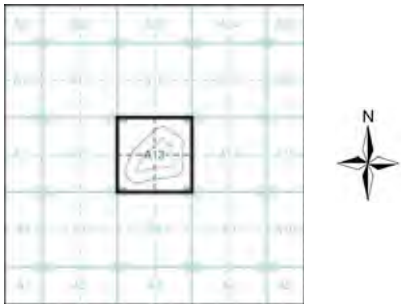


Envirocheck®
LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Warwickshire	1:2,500	1886	2
Warwickshire	1:2,500	1903	3
Leicestershire	1:2,500	1903	4
Leicestershire	1:2,500	1924	5
Warwickshire	1:2,500	1939	6
Ordnance Survey Plan	1:2,500	1956 - 1957	7
Ordnance Survey Plan	1:2,500	1959 - 1972	8
Ordnance Survey Plan	1:2,500	1972	9
Supply of Unpublished Survey Information	1:2,500	1975	10
Additional SIMs	1:2,500	1988	11
Large-Scale National Grid Data	1:2,500	1994	12
Large-Scale National Grid Data	1:2,500	1995	13
Historical Aerial Photography	1:2,500	1999	14

Historical Map - Segment A13



Order Details

Order Number: 366474854_1_1
Customer Ref: 294-24-087
National Grid Reference: 427980, 303280
Slice: A
Site Area (Ha): 5.63
Search Buffer (m): 100

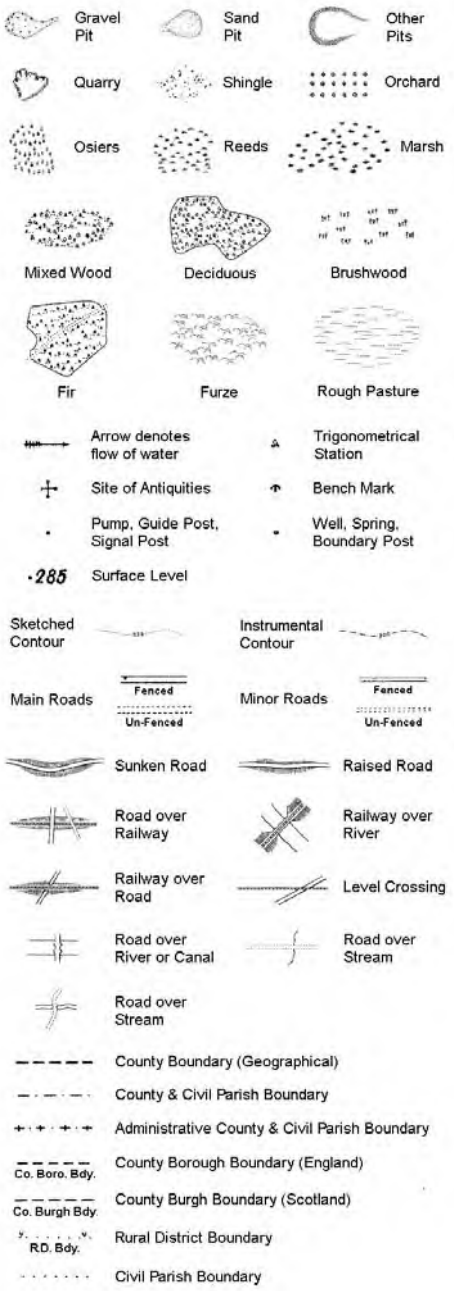
Site Details

Land off Orton Road, Warton

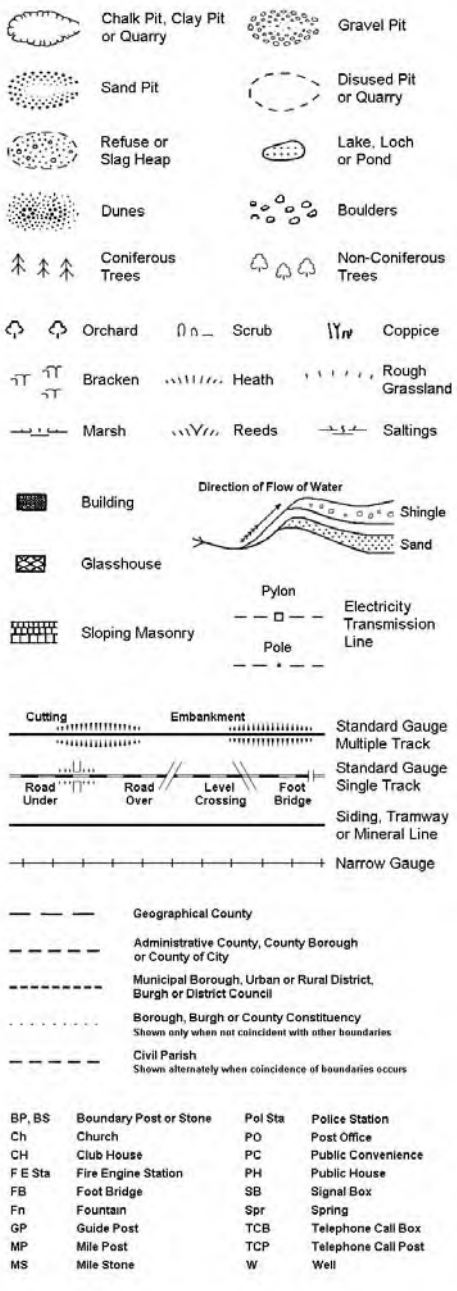
Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

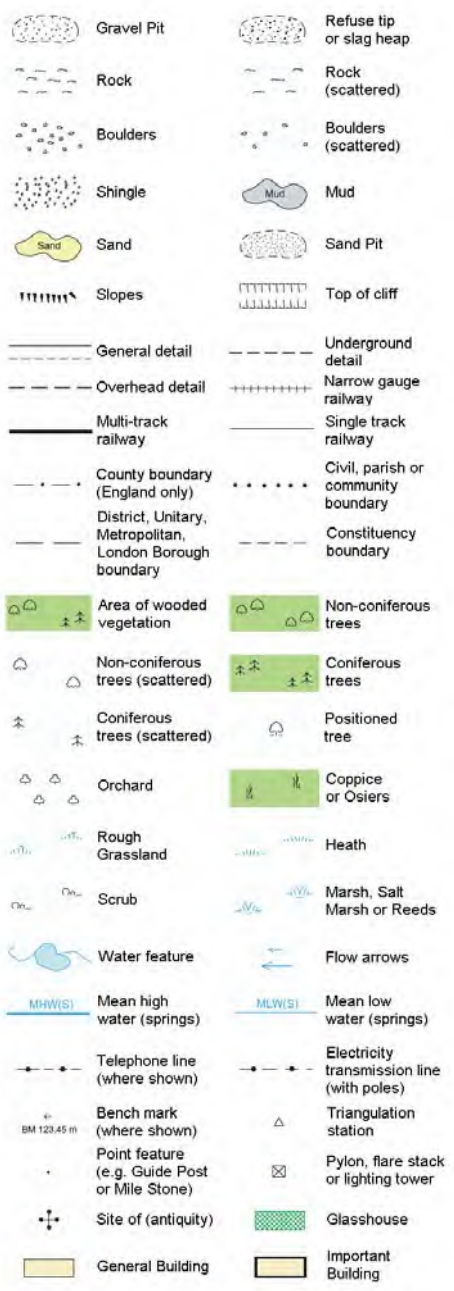
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping



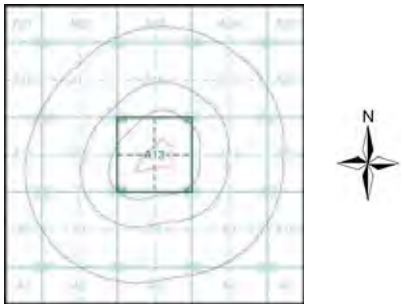
Envirocheck®

LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Warwickshire	1:10,560	1885	2
Leicestershire	1:10,560	1904	3
Leicestershire	1:10,560	1924 - 1925	4
Ordnance Survey Plan	1:10,000	1955	5
Ordnance Survey Plan	1:10,000	1966	6
Ordnance Survey Plan	1:10,000	1976	7
Ordnance Survey Plan	1:10,000	1990	8
10K Raster Mapping	1:10,000	1999	9
10K Raster Mapping	1:10,000	2006	10
VectorMap Local	1:10,000	2024	11

Historical Map - Slice A



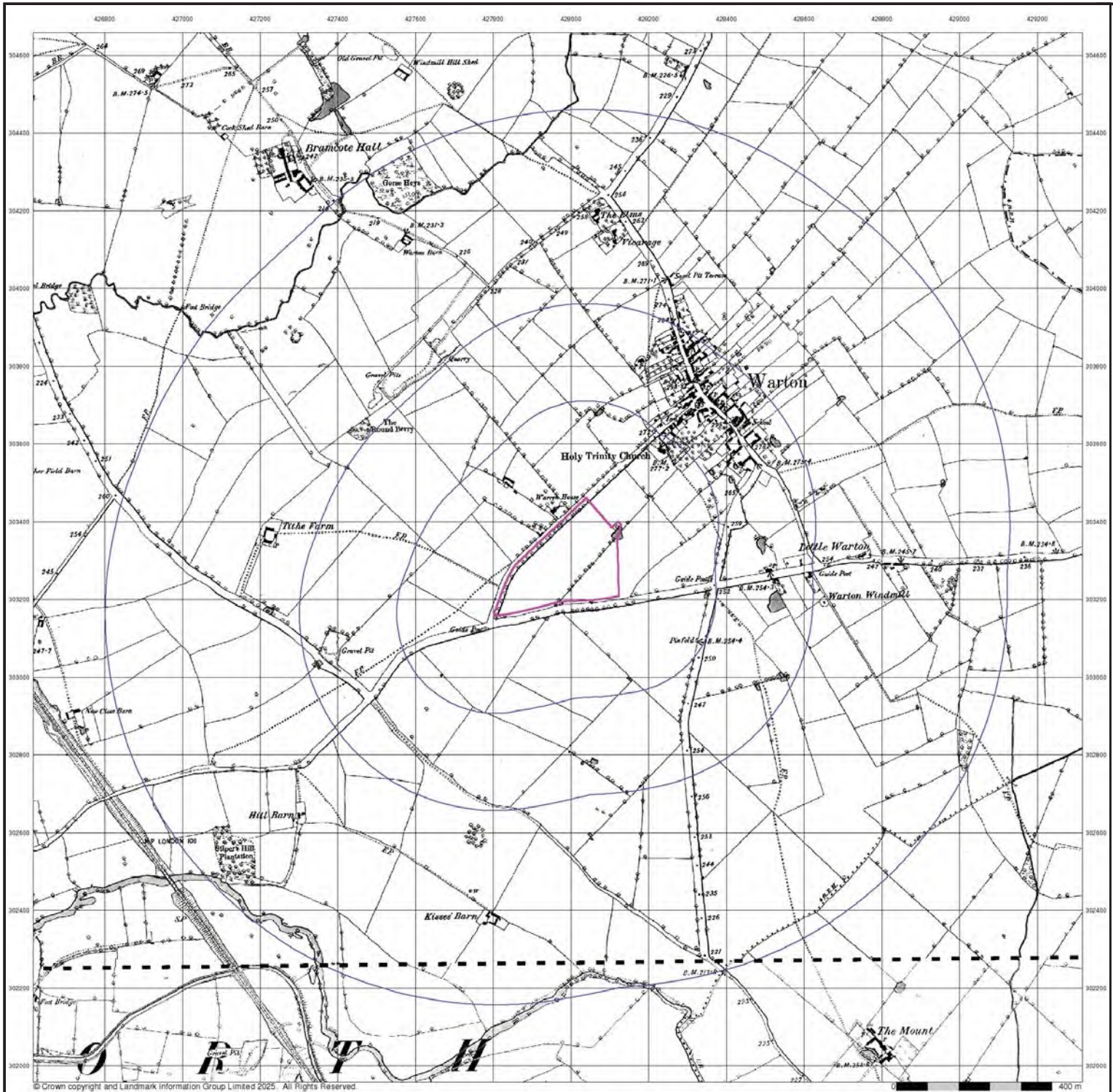
Order Details

Order Number: 366474854_1_1
Customer Ref: 294-24-087
National Grid Reference: 427980, 303280
Slice: A
Site Area (Ha): 5.63
Search Buffer (m): 1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP®

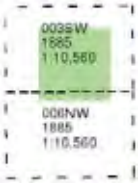
Warwickshire

Published 1885

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
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Site Details

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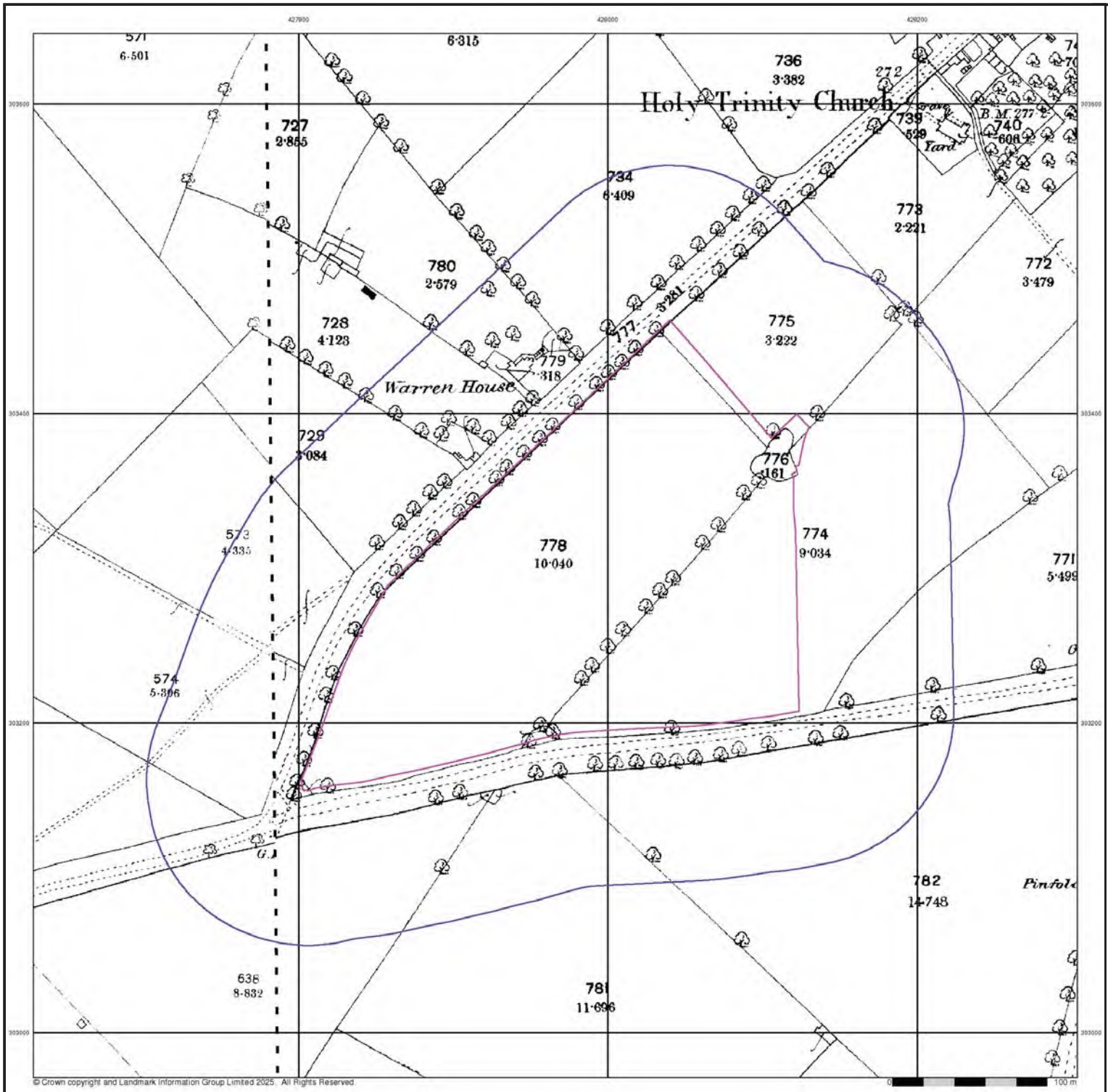

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LANDMARK INFORMATION GROUP

Warwickshire

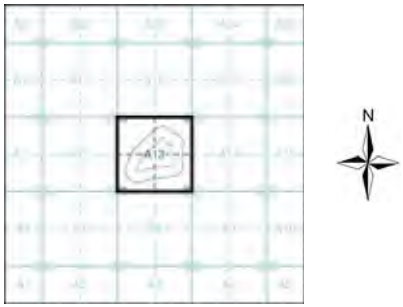
Published 1886

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
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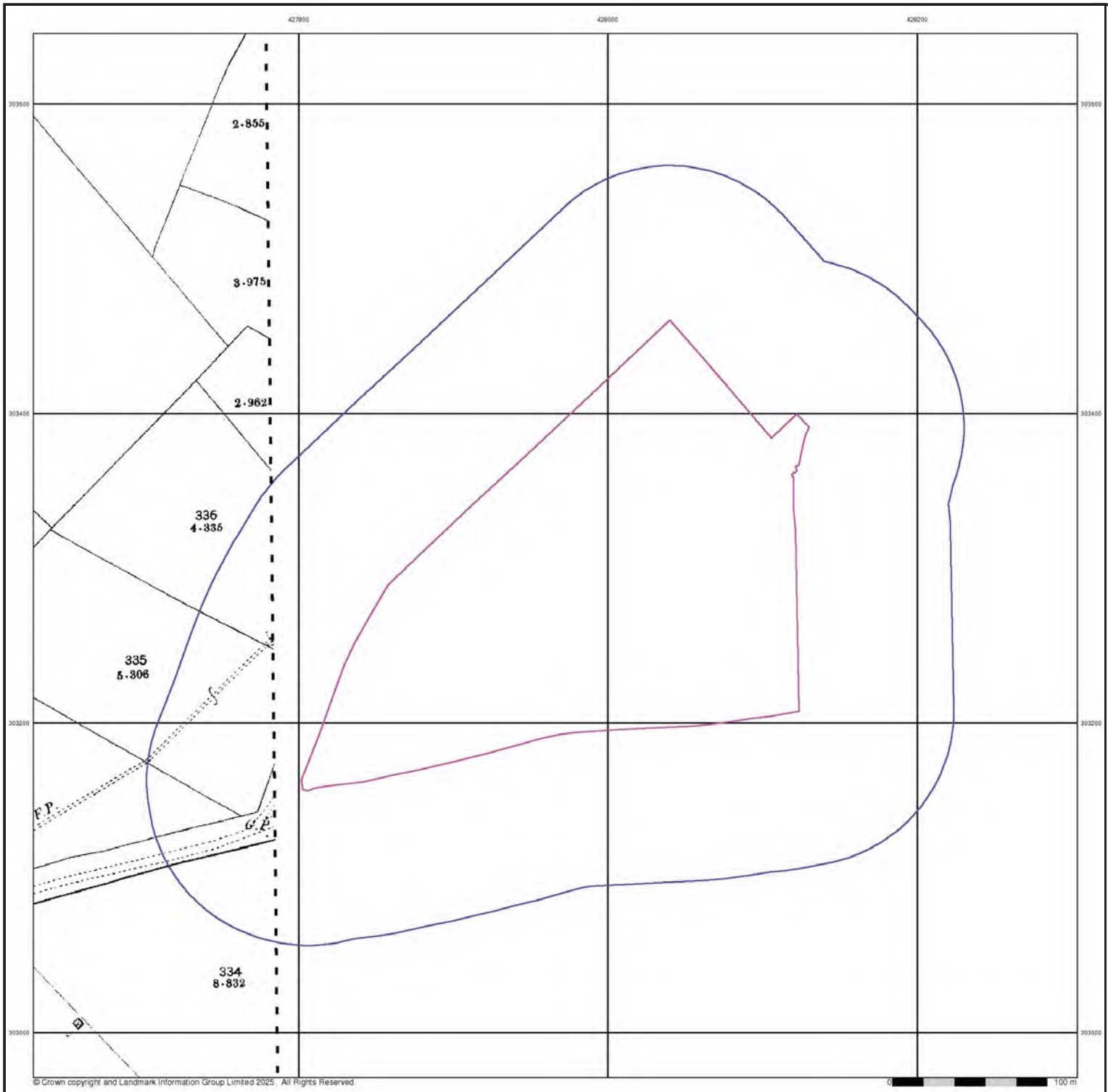

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LANDMARK INFORMATION GROUP

Warwickshire

Published 1903

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.

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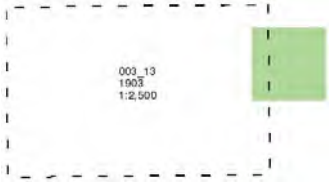
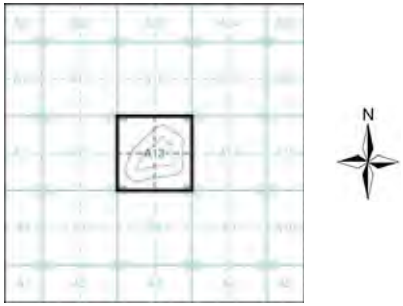


Historical Map - Segment A13



Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
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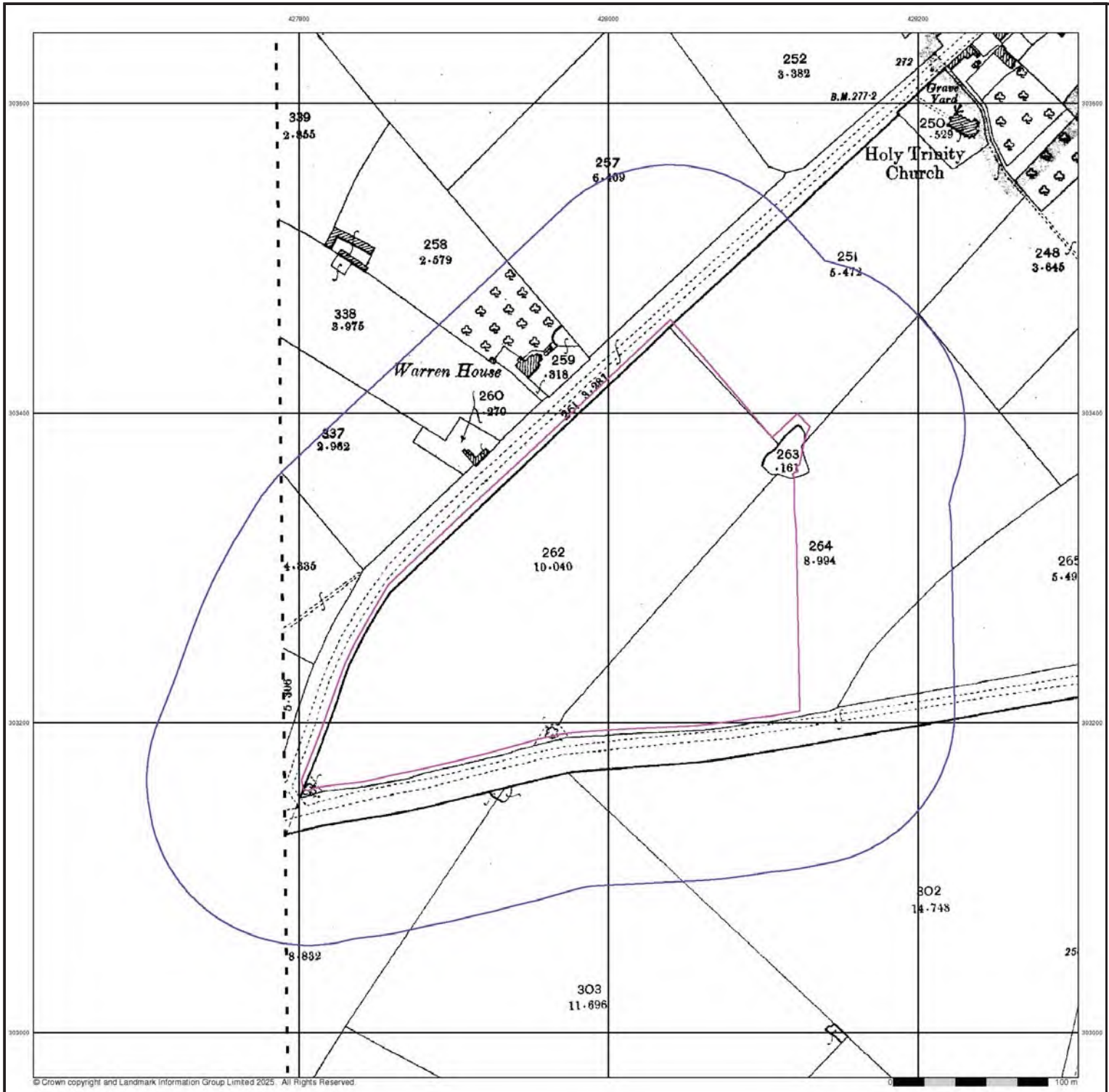

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LANDMARK INFORMATION GROUP®

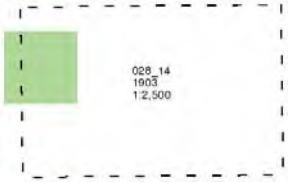
Leicestershire

Published 1903

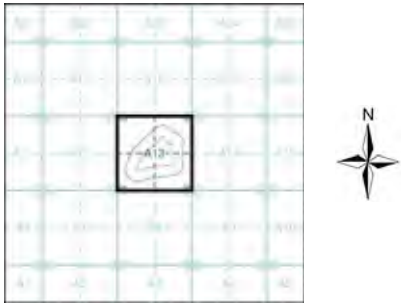
Source map scale - 1:2,500

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
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Site Details

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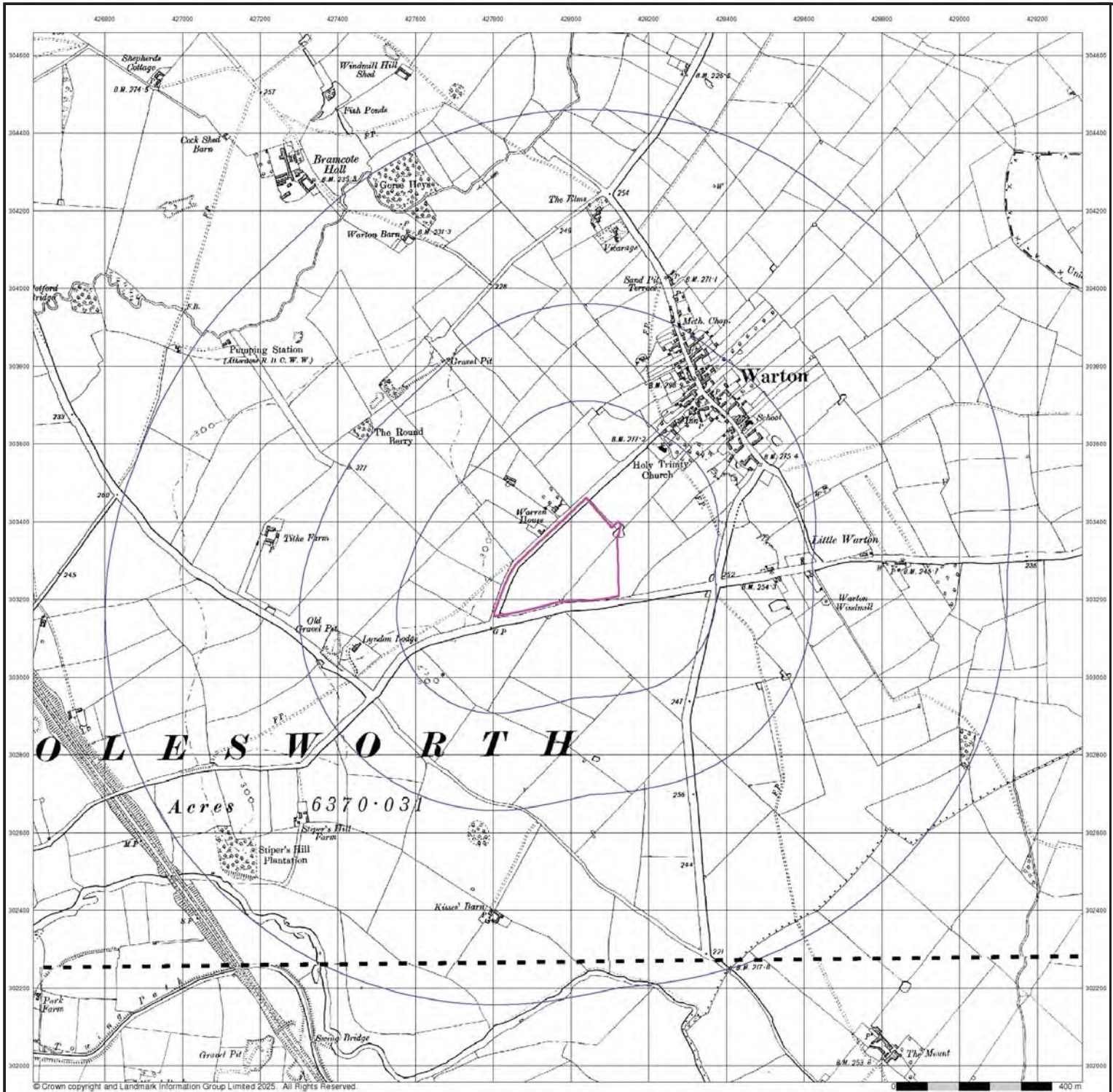

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LANDMARK INFORMATION GROUP

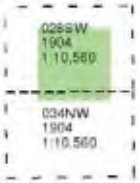
Leicestershire

Published 1904

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

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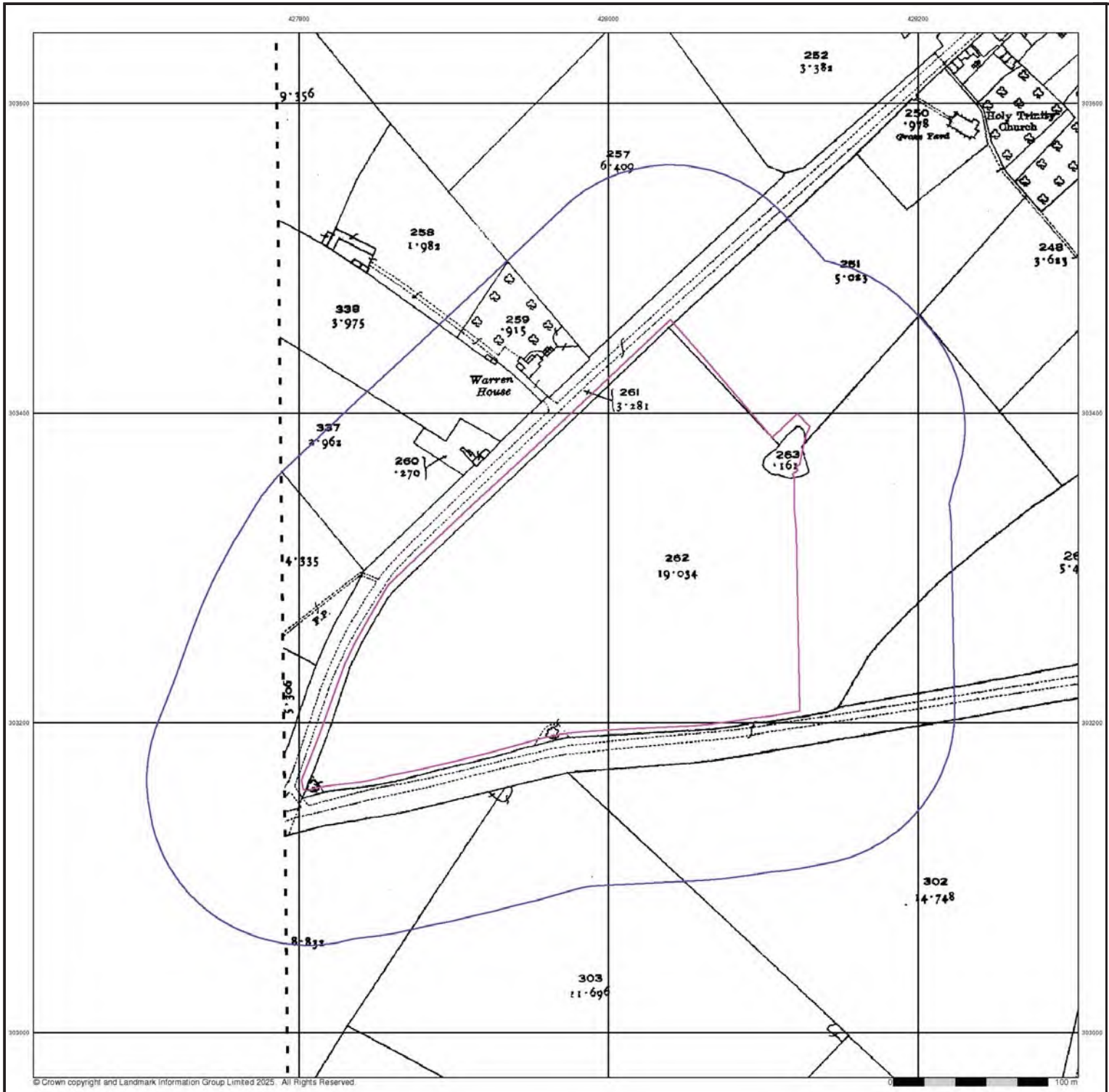

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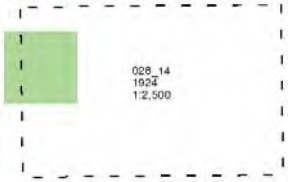
Leicestershire

Published 1924

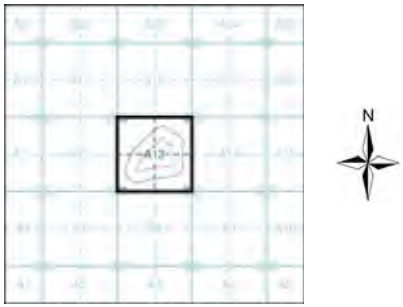
Source map scale - 1:2,500

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:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	100

Site Details

Land off Orton Road, Warton

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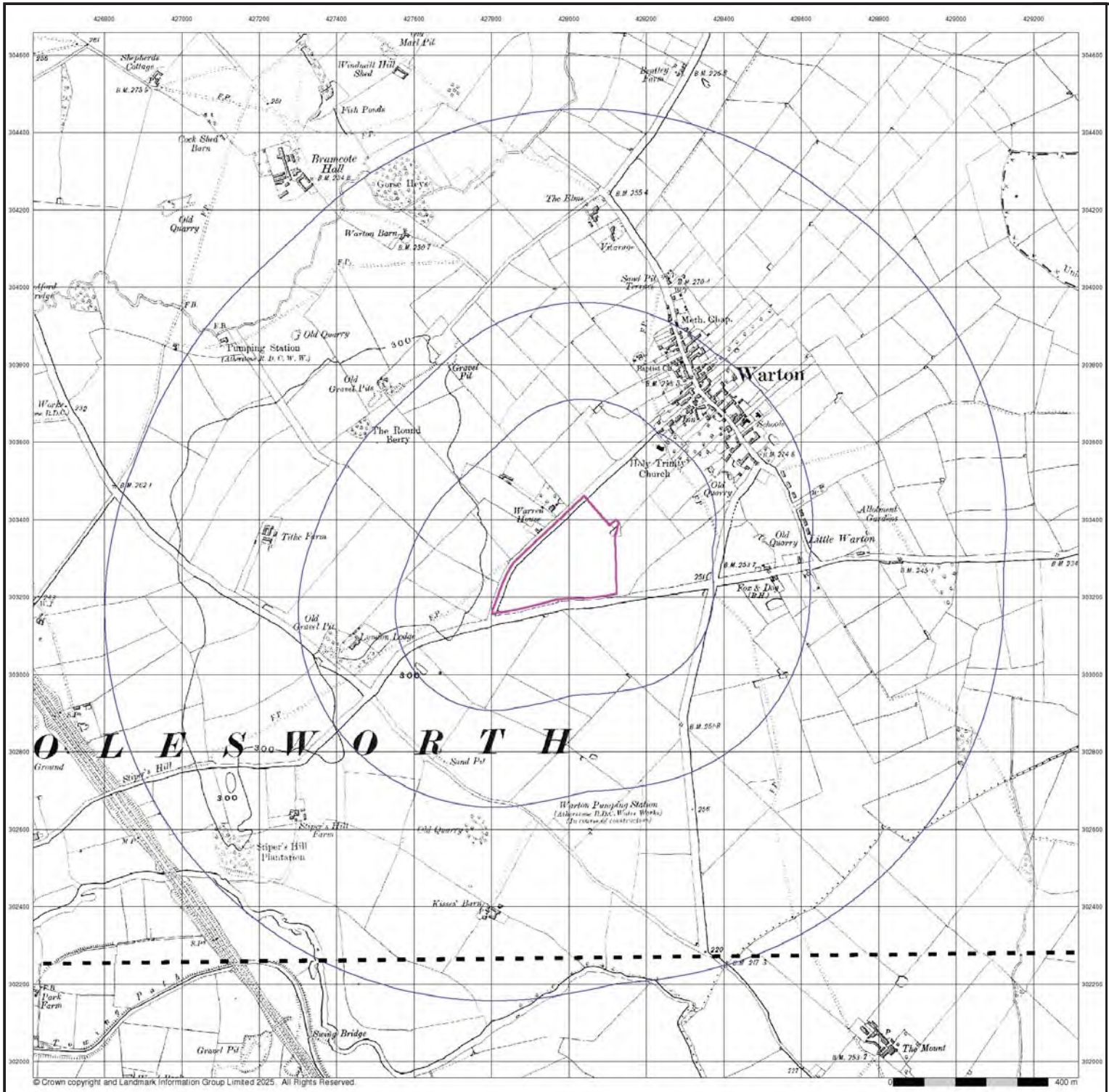

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LANDMARK INFORMATION GROUP

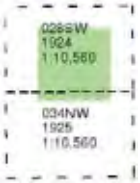
Leicestershire

Published 1924 - 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)



Historical Map - Slice A

Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	1000

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP

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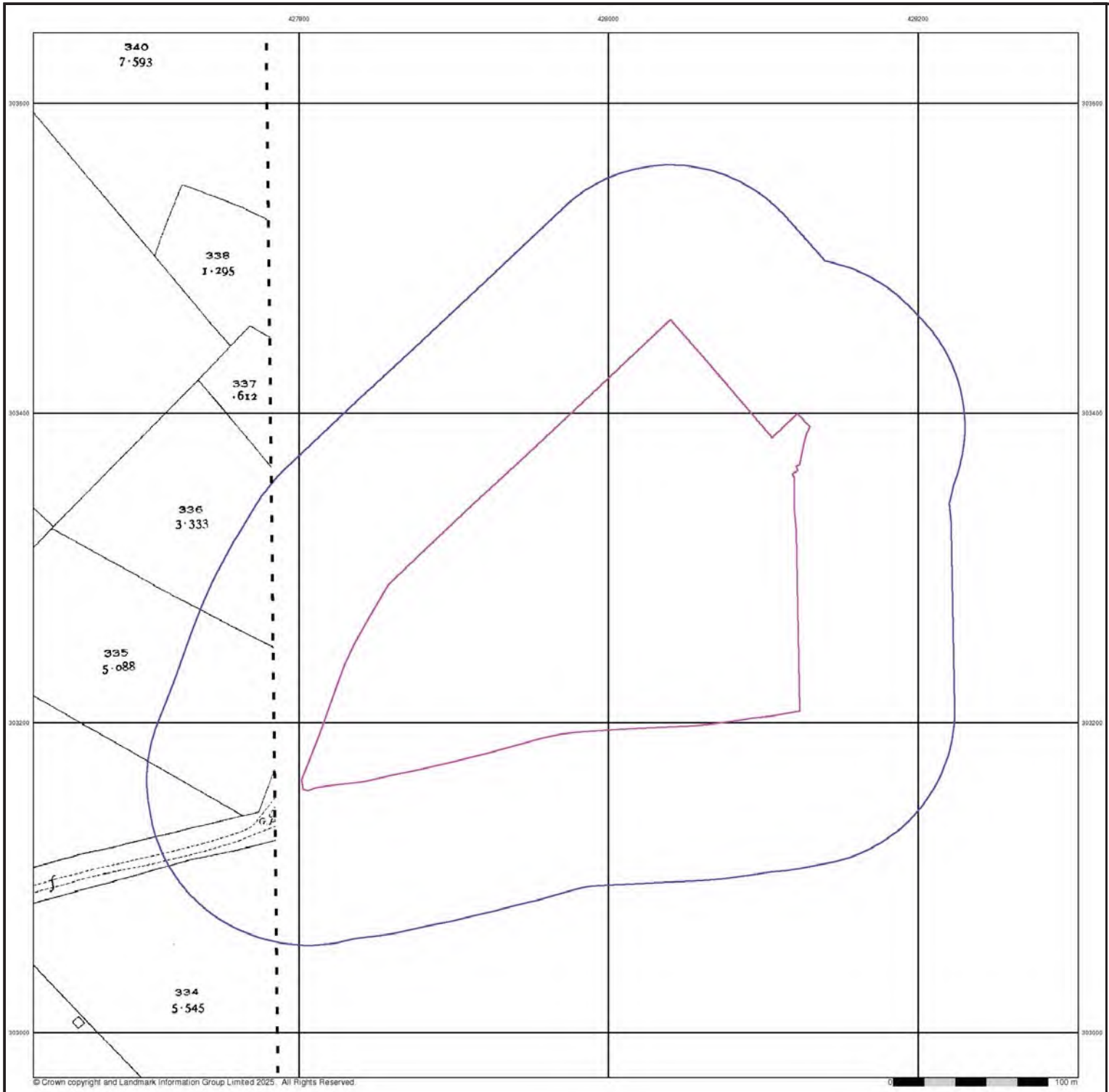
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP

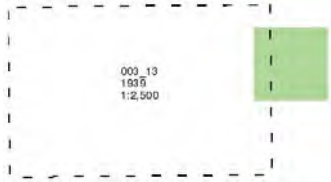
Warwickshire

Published 1939

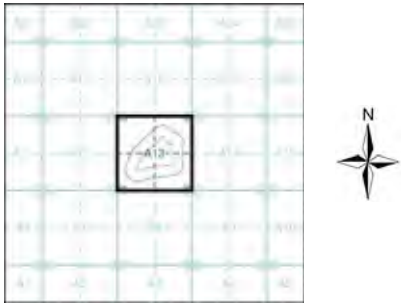
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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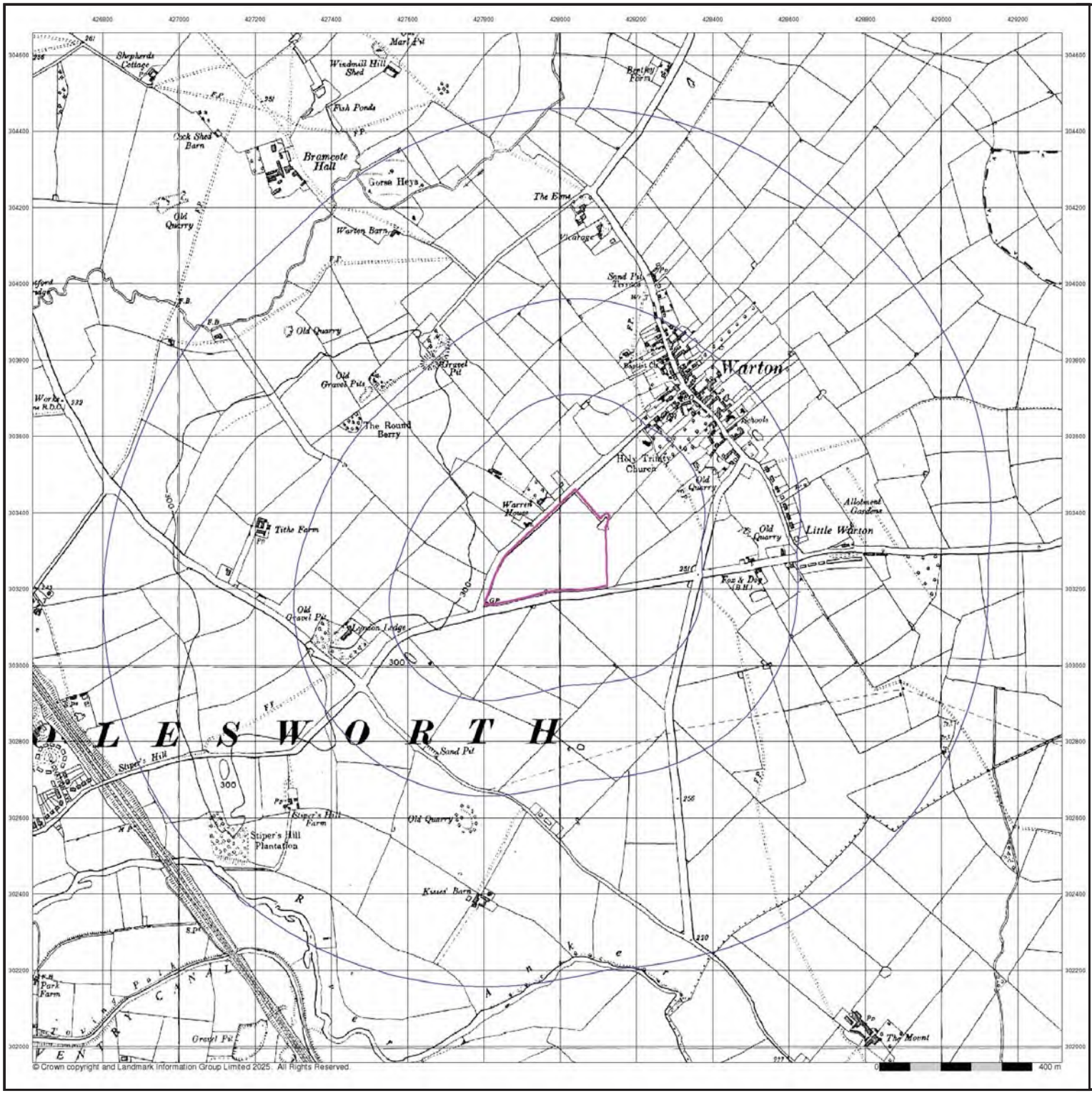

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Ordnance Survey Plan

Published 1955

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)

Historical Map - Slice A

Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
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Site Details

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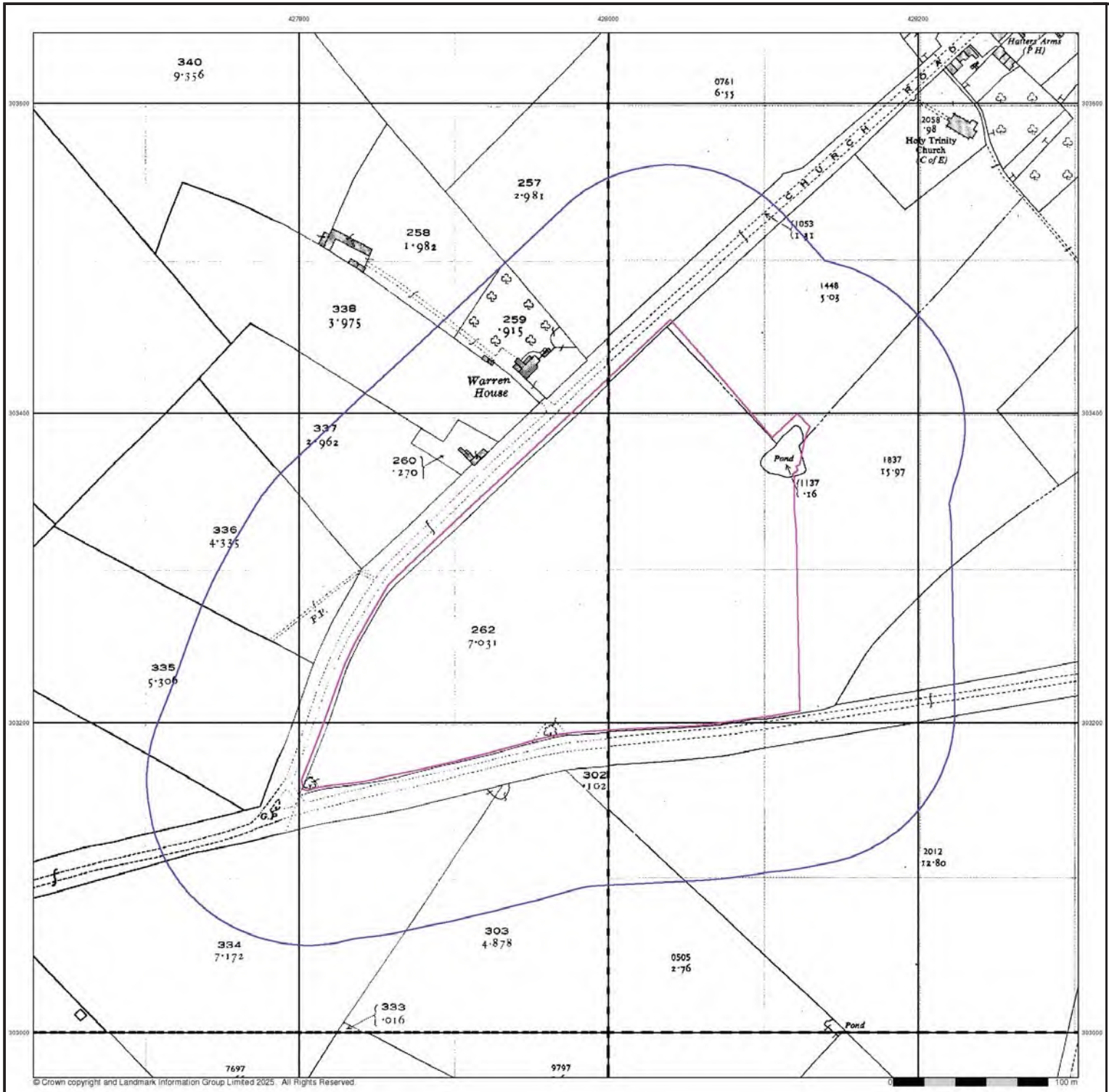

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LANDMARK INFORMATION GROUP

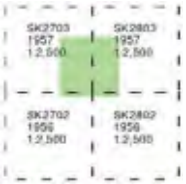
Ordnance Survey Plan

Published 1956 - 1957

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:	366474854_1_1
Customer Ref:	294-24-087
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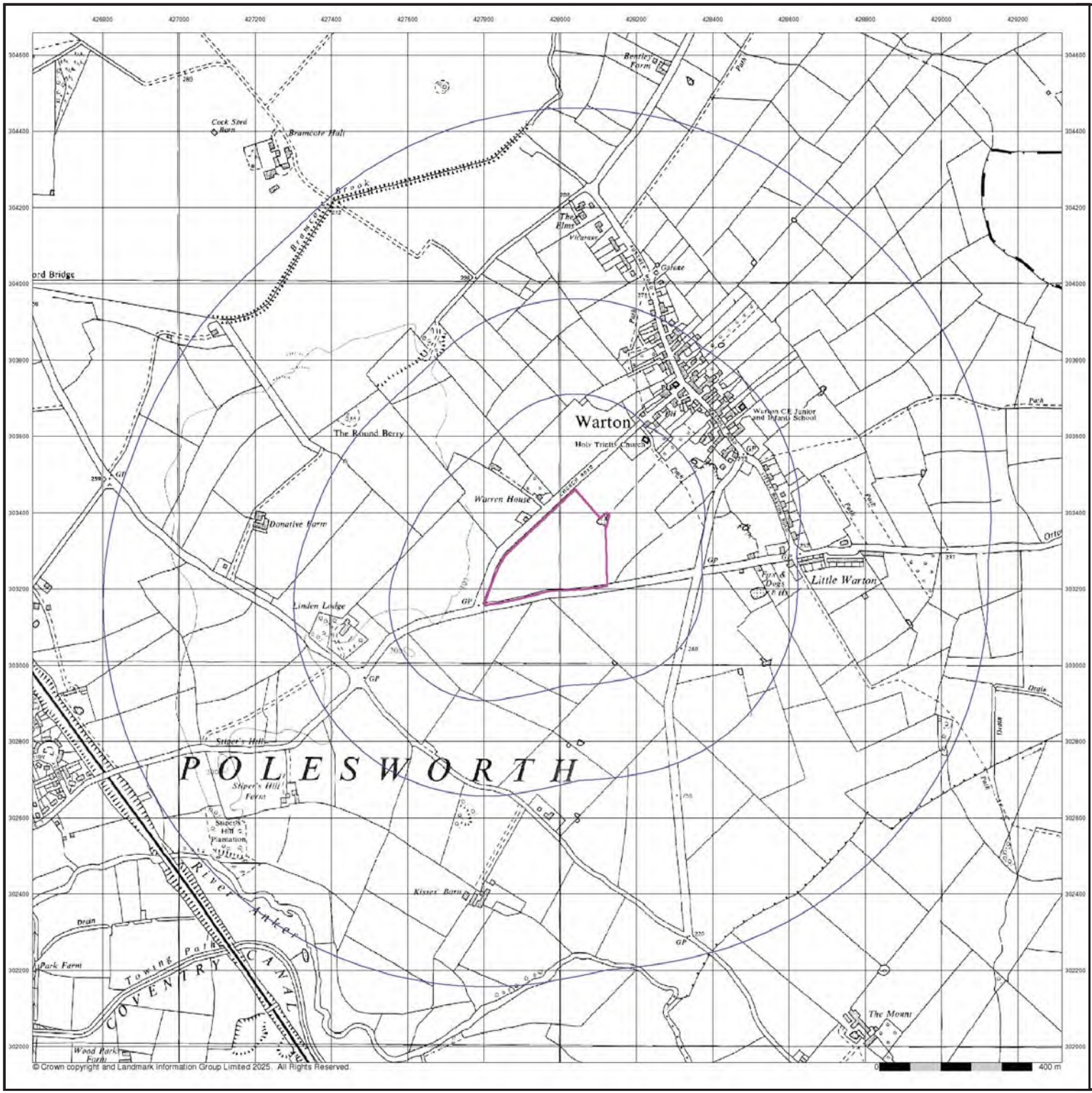

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Ordnance Survey Plan
Published 1966
Source map scale - 1:10,000

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)

Historical Map - Slice A

Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
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Slice:	A
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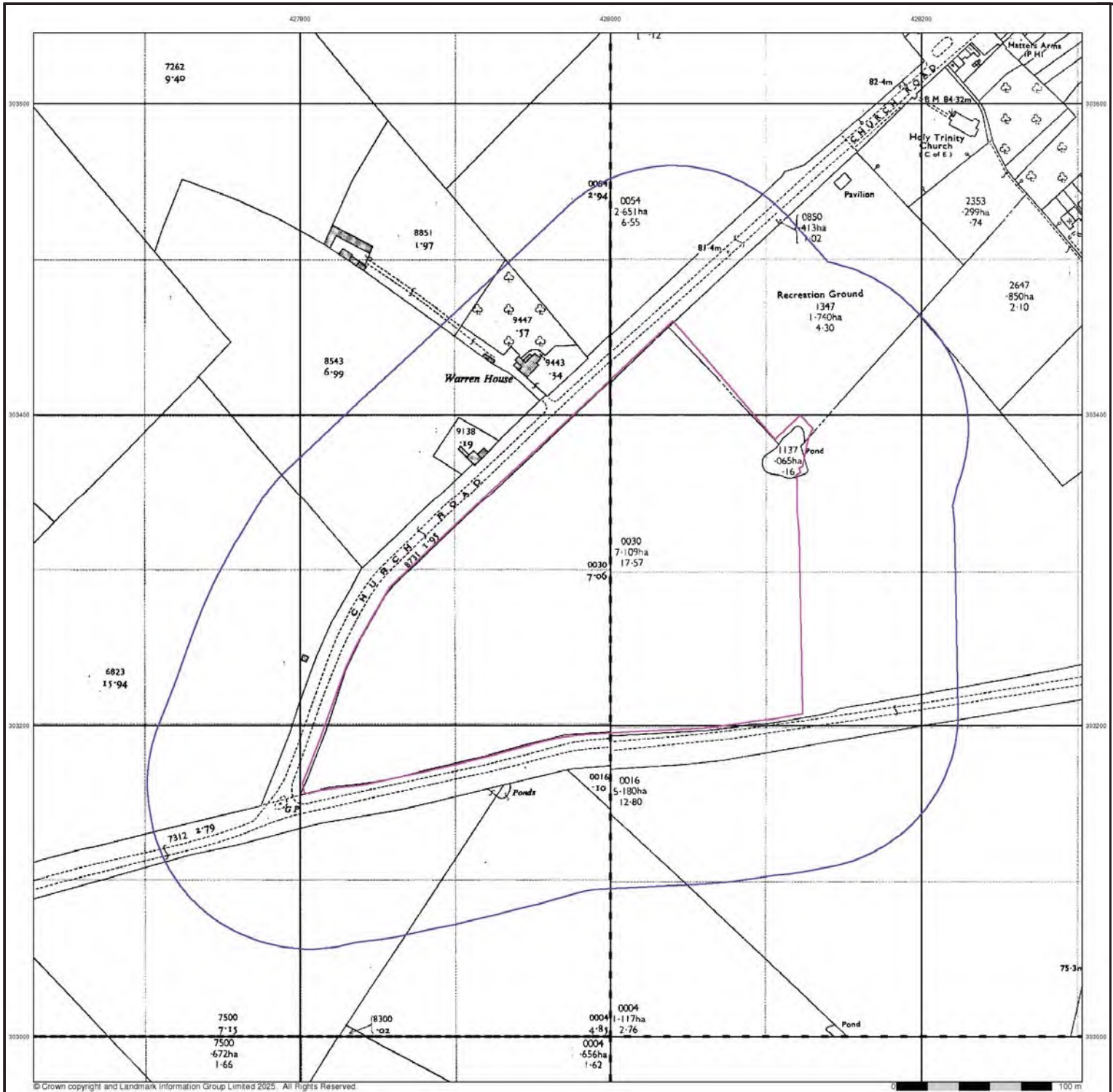

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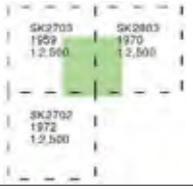
Ordnance Survey Plan

Published 1959 - 1972

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:	366474854_1_1
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Site Details

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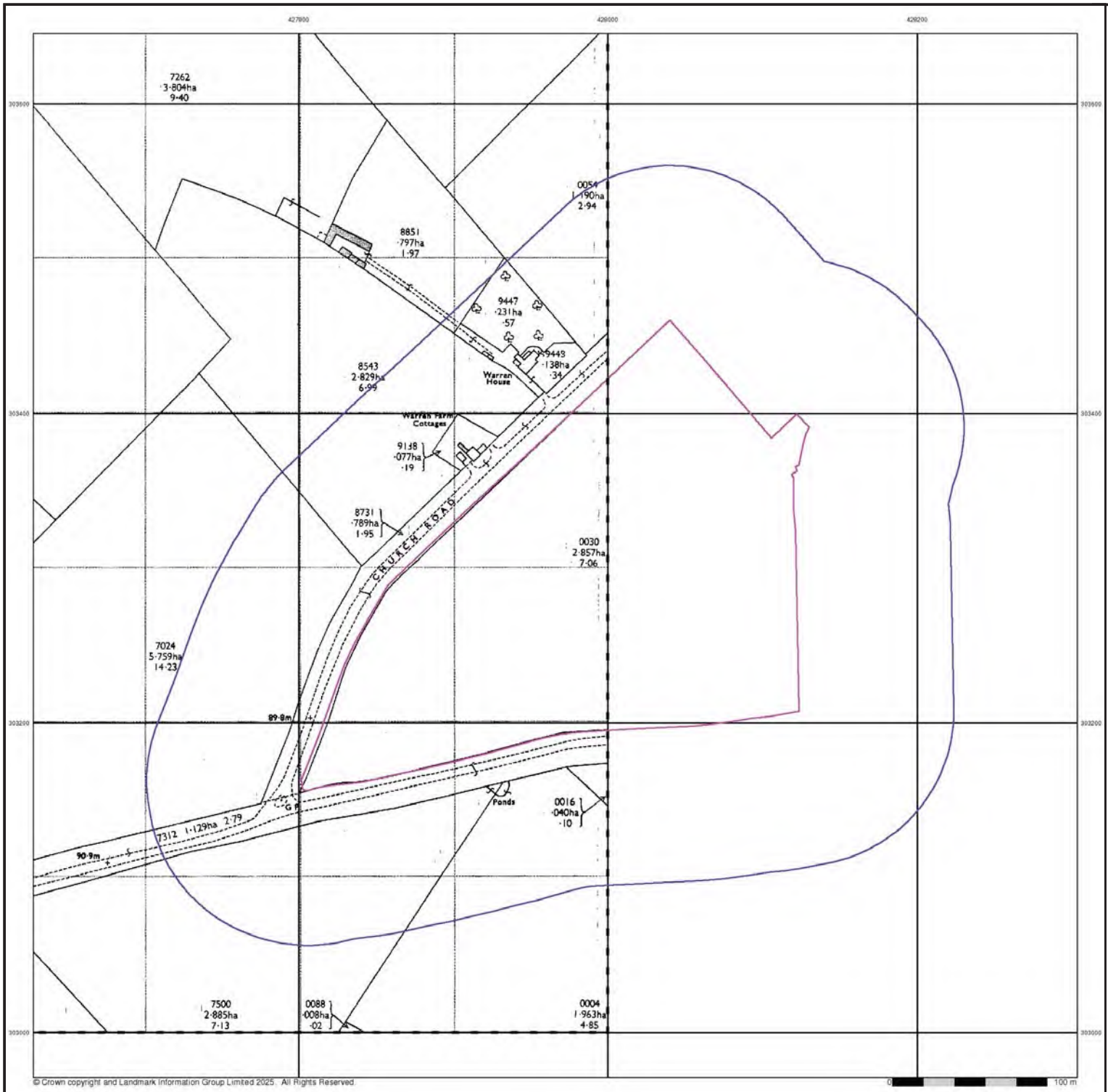

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LANDMARK INFORMATION GROUP

Ordnance Survey Plan
Published 1972
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.

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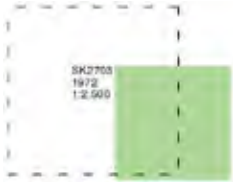
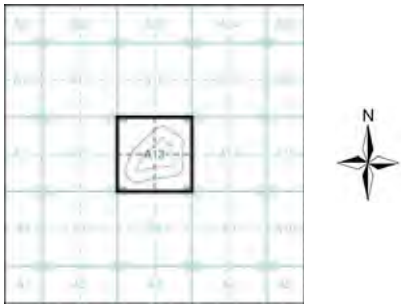


Historical Map - Segment A13



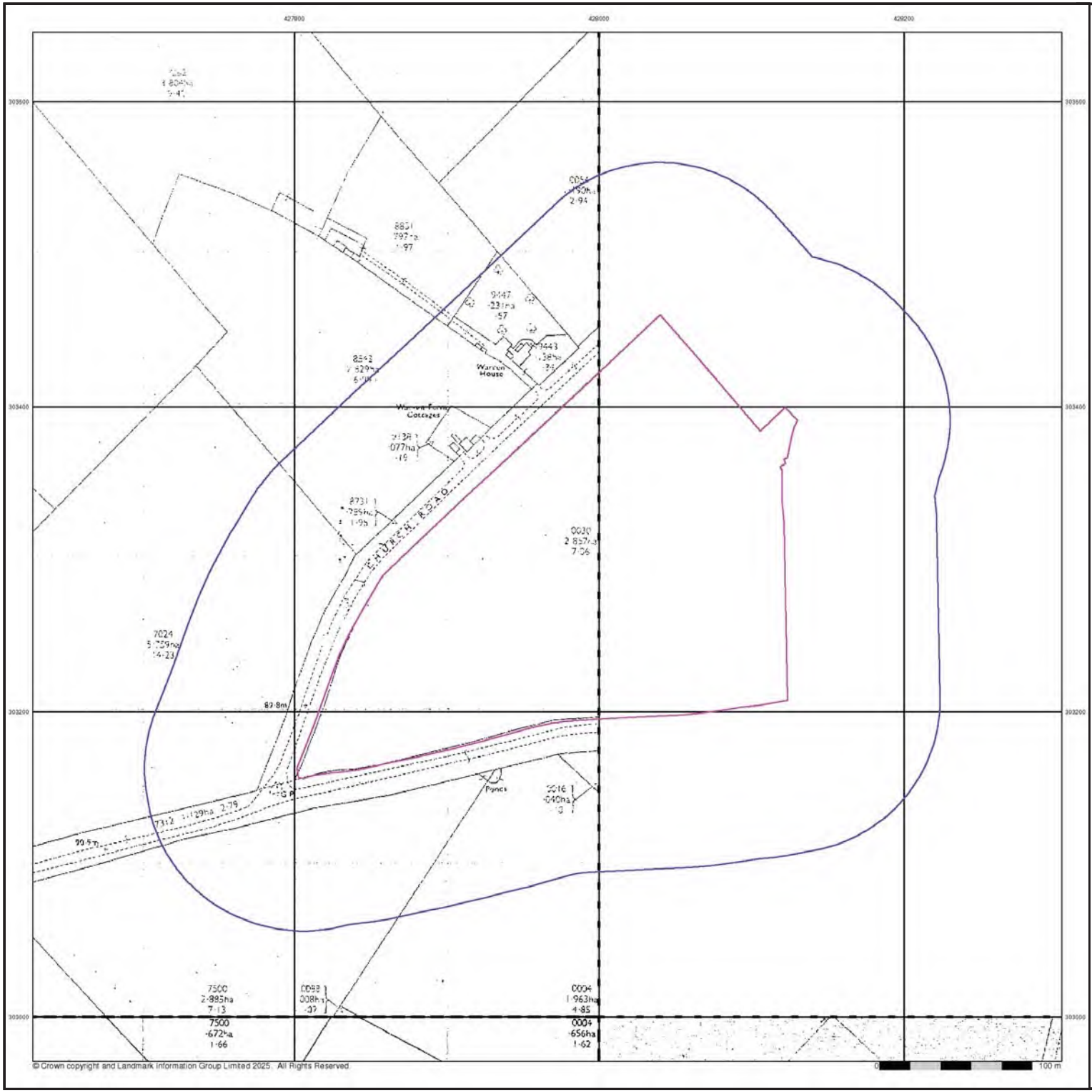
Order Details

Order Number:	366474854_1_1
Customer Ref:	294-24-087
National Grid Reference:	427980, 303280
Slice:	A
Site Area (Ha):	5.63
Search Buffer (m):	100

Site Details

Land off Orton Road, Warton

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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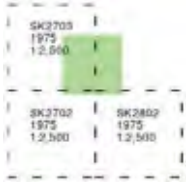
Supply of Unpublished Survey Information

Published 1975

Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

Order Details

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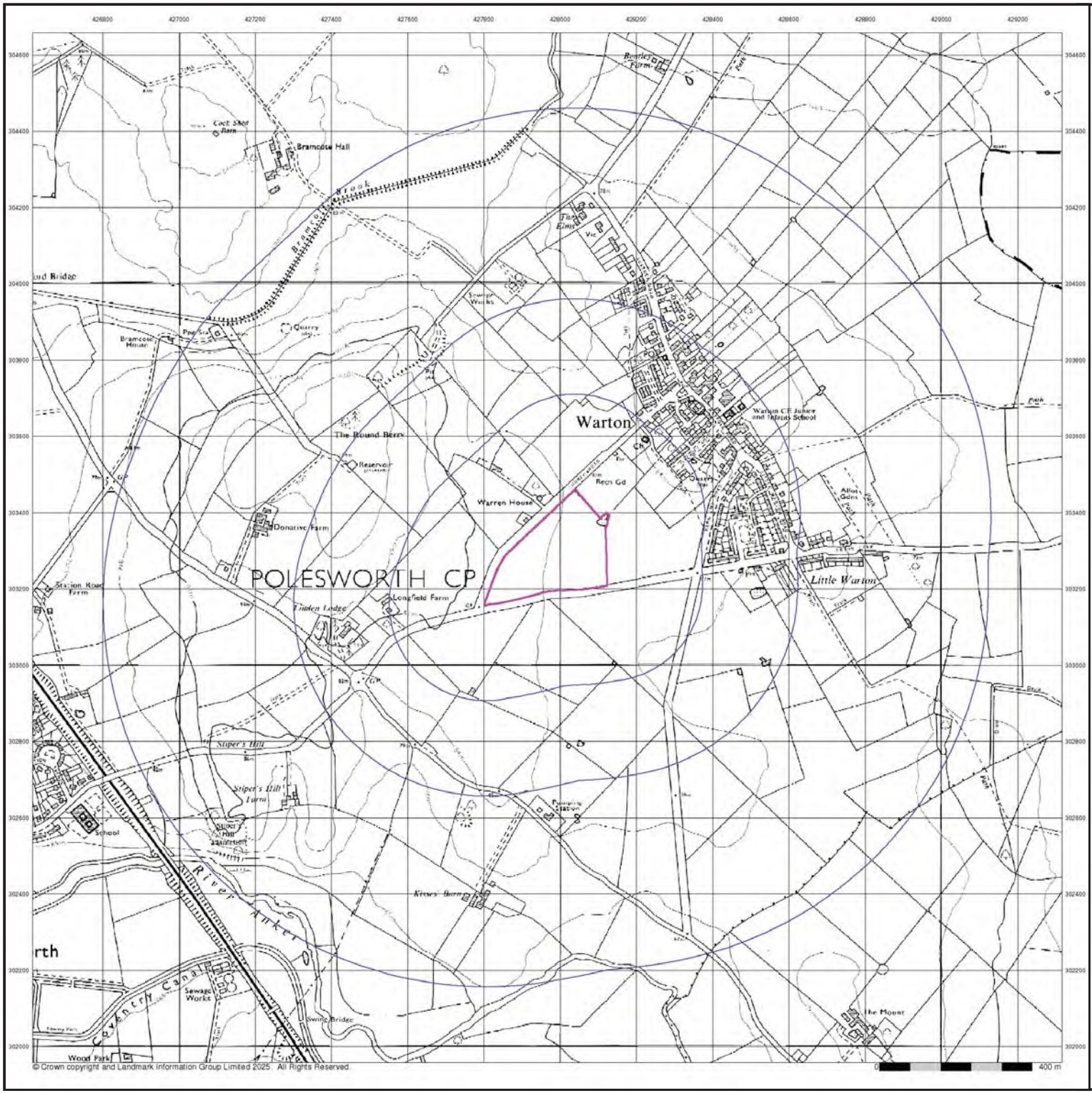

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Ordnance Survey Plan

Published 1976

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)

Historical Map - Slice A

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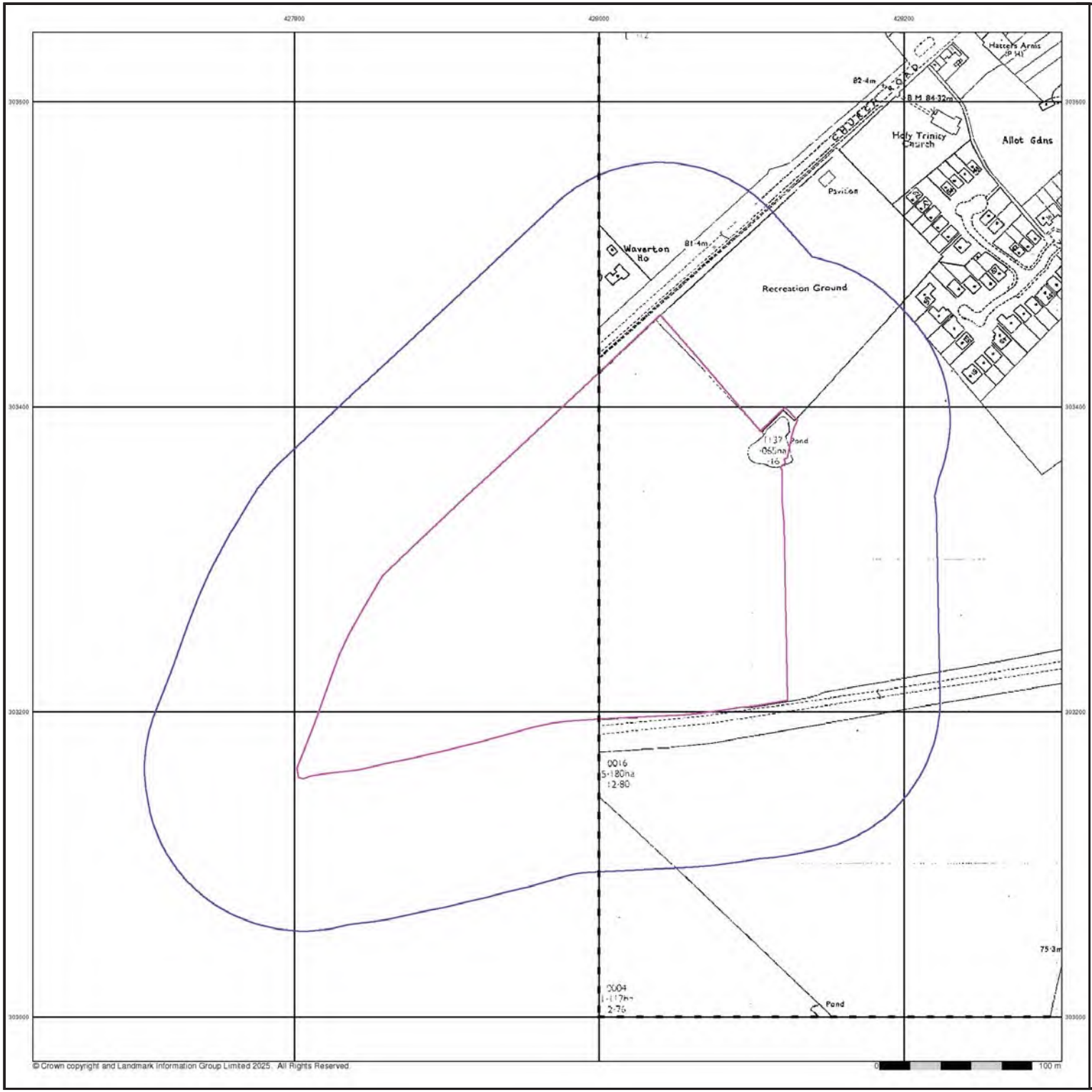

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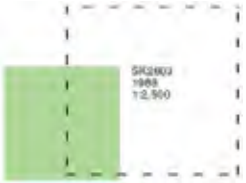
Additional SIMs

Published 1988

Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

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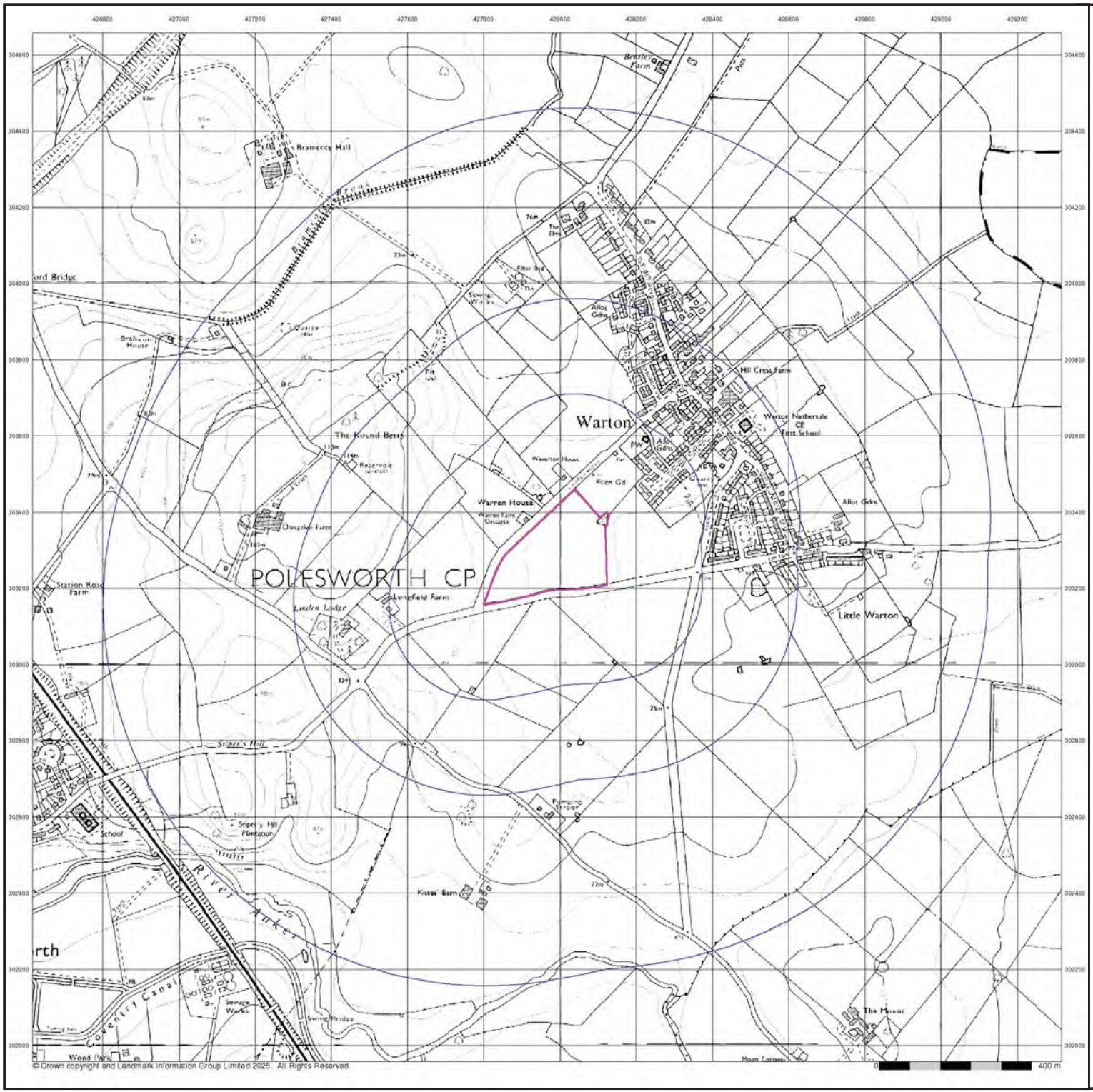

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Ordnance Survey Plan

Published 1990

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.

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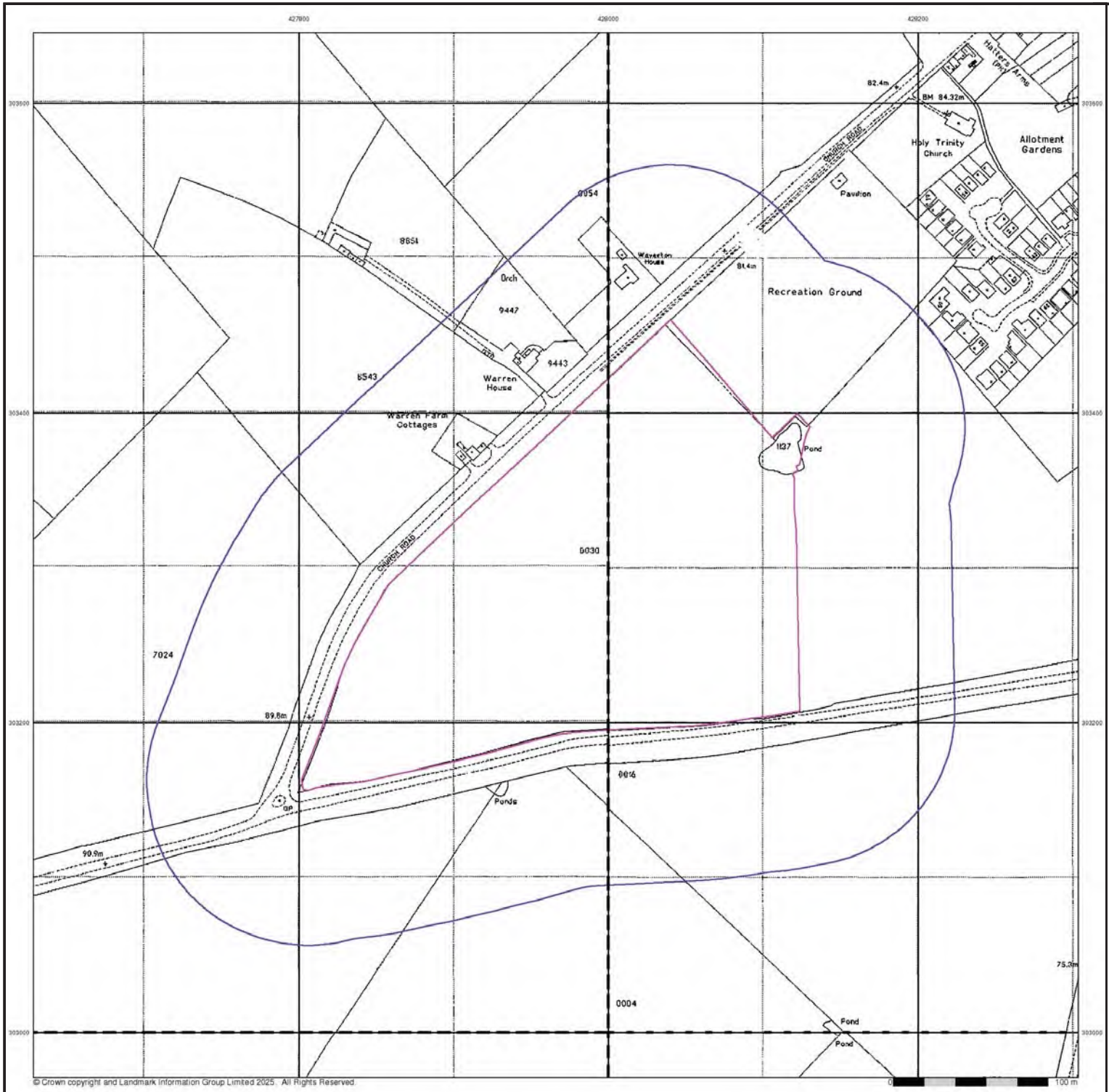

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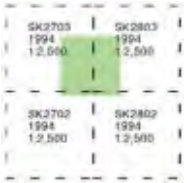
Large-Scale National Grid Data

Published 1994

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

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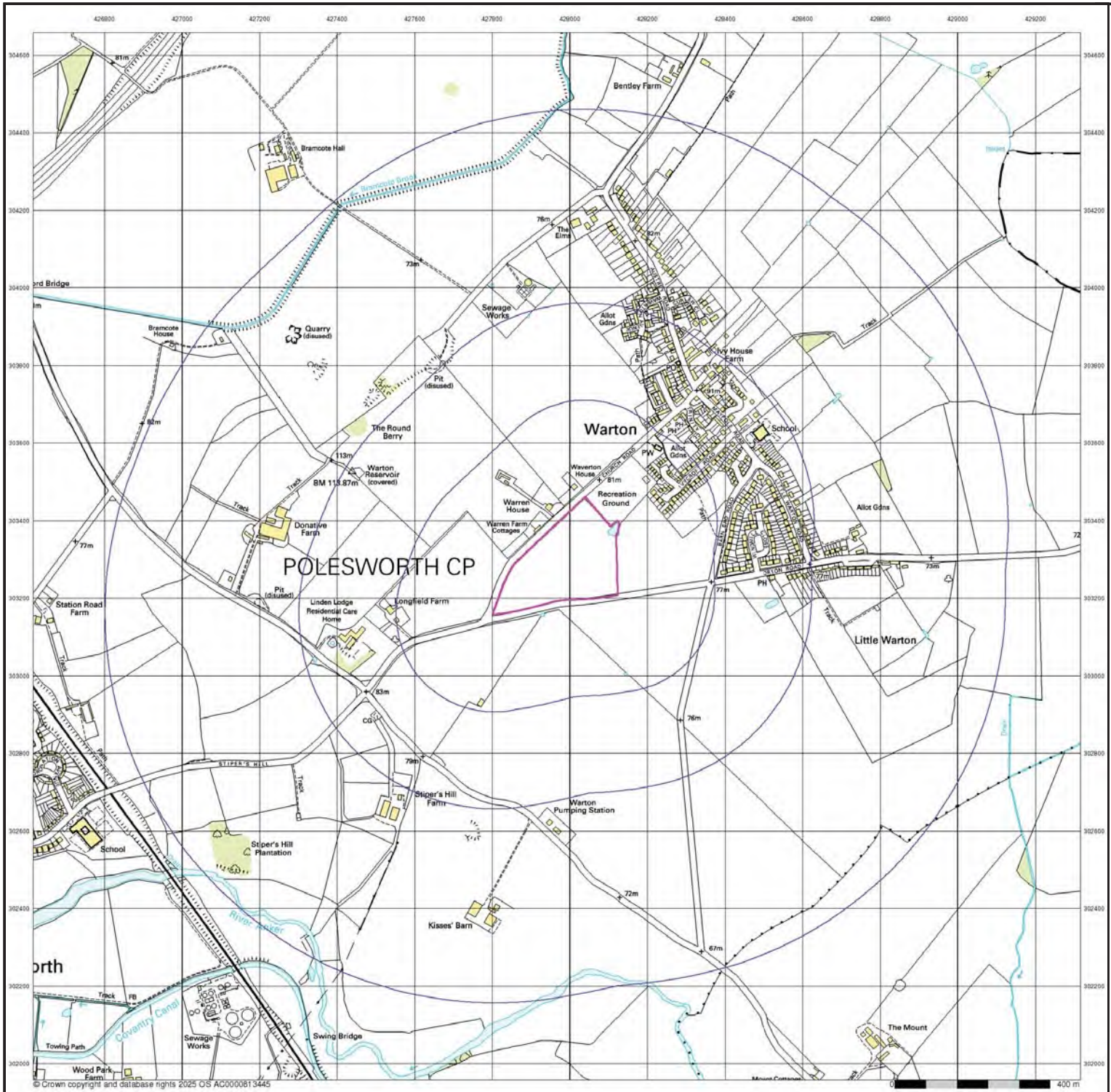

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LANDMARK INFORMATION GROUP

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)

Historical Map - Slice A

Order Details

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Site Details

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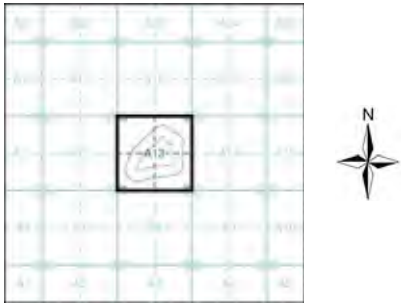
Historical Aerial Photography
Published 1999

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



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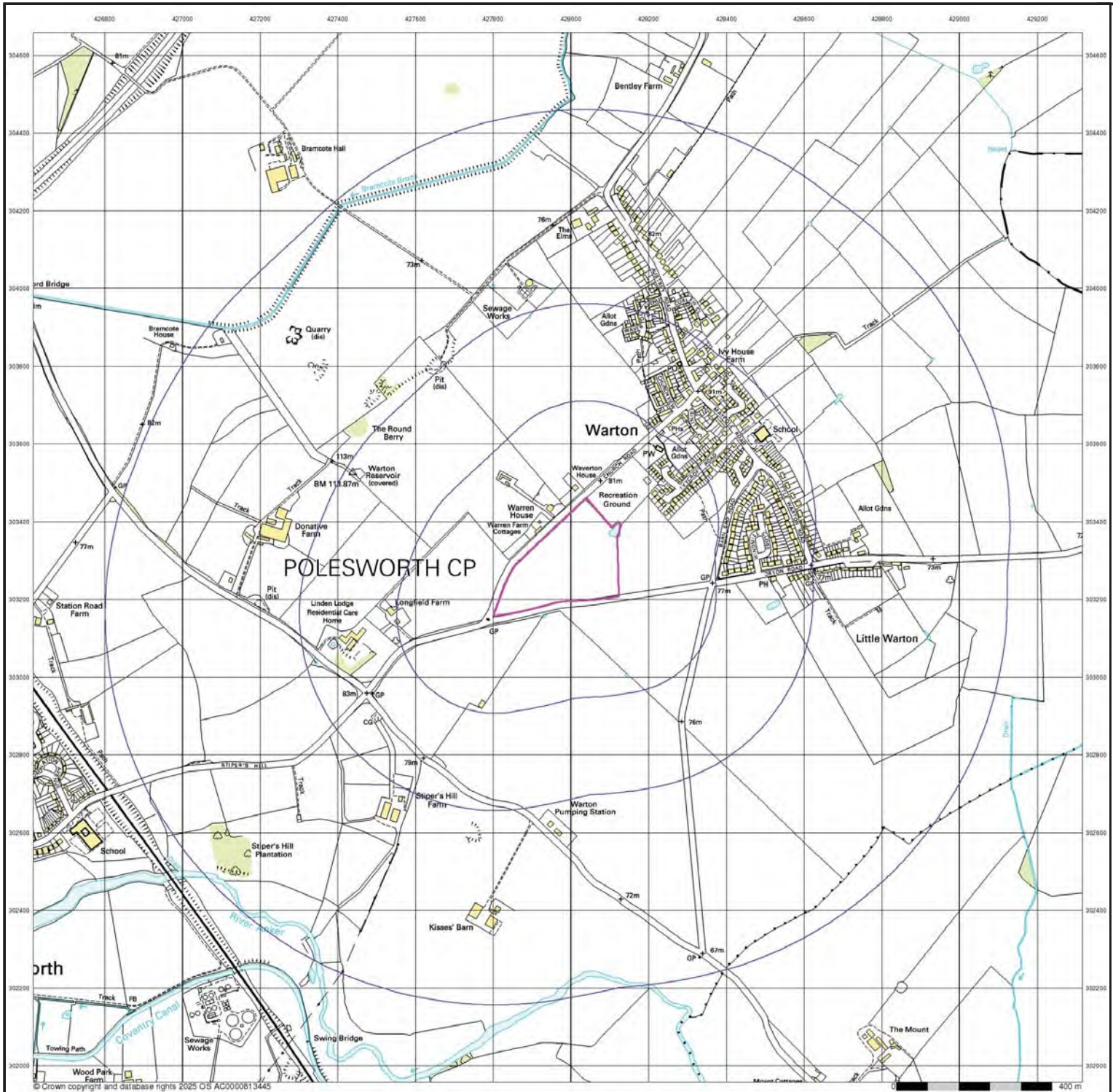

Envirocheck

LANDMARK INFORMATION GROUP

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)

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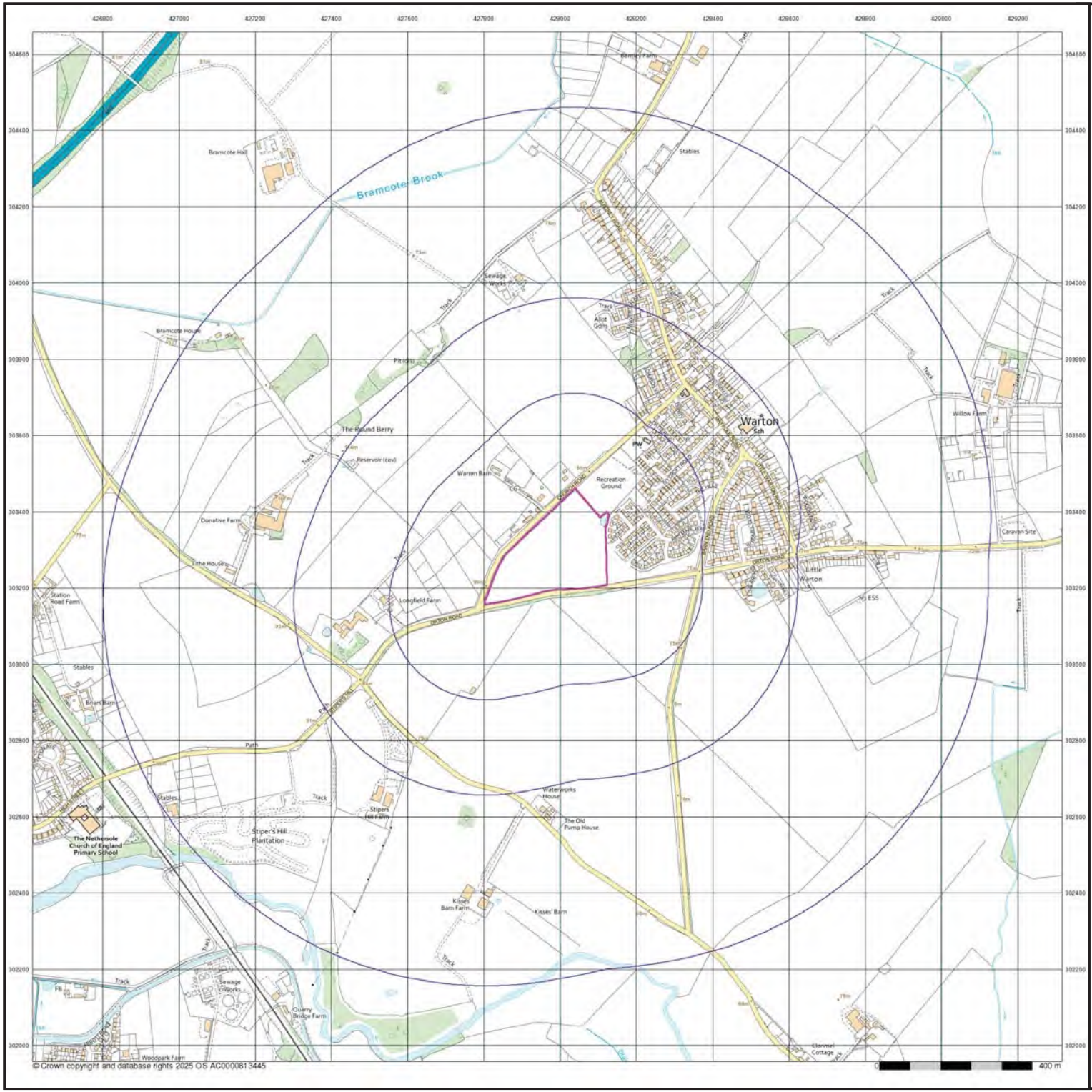

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LANDMARK INFORMATION GROUP

VectorMap Local

Published 2024

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)

Historical Map - Slice A

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