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MANAGEMENT



GROUND INVESTIGATION

LAND ADJACENT TO 31 MOORE ROAD
BARWELL, LEICESTER

Report No: 17005/1
Date: February 2017

Prepared for

MDB STEEL



Innovative Land Development Solutions

PROJECT QUALITY ASSURANCE
INFORMATION SHEET

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BARWELL, LEICESTER

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EXECUTIVE SUMMARY

GROUND INVESTIGATION

LAND ADJACENT TO 31 MOORE ROAD BARWELL, LECESTER

Georisk Management Limited has been commissioned to carry out a ground investigation at the above site which is to be developed for a residential end use.

Phase I	Comments
The Site	The site comprises a plot of land adjacent to 31 Moore Road in Barwell, Leicester and can be located approximately by National Grid Reference 445000, 297460.
Site History	The site comprised undeveloped land from at least 1886 until the late 1950's/early 1960's when two buildings were constructed on site. It is understood that the site was occupied by a public house and later a commercial unit. All buildings were reportedly demolished in 2007.
Geology	The geology beneath the site comprises the Oadby Member (Glacial Till) overlying the Gunthorpe Member of the Sidmouth Mudstone Formation of the Mercia Mudstone Group of Triassic age. The presence of Made Ground should be anticipated associated with former built development at the site.
Coal Mining	The site is not in an area affected by past underground coal mining.
Hydrology	The nearest surface water feature is an unnamed watercourse located approximately 120 m east of the site – there are no rivers or streams within 250 m of the site.
Flood Risk	The site is not mapped in an area likely to be affected by river flooding.
Hydrogeology	The Oadby Member is classified as a ' <i>Secondary Aquifer - Undifferentiated</i> ' whilst the Gunthorpe Member is classified as a ' <i>Secondary – B</i> ' aquifer. The EA has no records of any licensed groundwater abstractions within 500m of the site and it is not in a groundwater Source Protection Zone.
Landfills	The EA has no records of any operational or historic landfills within 250 m of the site.
Radon	Radon protection measures are not required for the proposed development.
Phase II	Comments
Ground Conditions	Made Ground was encountered across the site to depths of between 1.3 and 1.4 m begl. It typically comprises an upper layer of demolition rubble consisting of slightly clayey gravelly sand and gravel with cobbles. The gravel content was noted to comprise predominantly brick, concrete, quartzite with rare coal, ash and wood and possible asbestos cement. Black ashy gravel of coal and clinker was observed within BH1 from 0.5 to 0.7 m begl. The upper layer overlies reworked natural material consisting of soft to firm becoming firm to stiff slightly gravelly to gravelly sandy to very sandy clay varying to loose slightly clayey slightly gravelly sand with gravel content comprising quartzite, flint, chert, coal, sandstone and brick. The Made Ground was not fully penetrated in BH2a to BH2d inclusive and BH4b with concrete and brick obstructions encountered at depths of between 0.5 and 1.0 m begl indicating the probable presence of remnant foundations/slabs or basements/cellars of former buildings. Buried topsoil was encountered in BH1, BH3 and BH4a at depths of 1.3 and 1.5 m begl and extended to depths of between 1.5 and 1.7 m begl. It comprises soft to firm very sandy locally slightly gravelly clay. The Oadby Member was encountered beneath buried topsoil at depths of between 1.5 and 1.7 m begl and was proved to a maximum penetrated depth of 5.0 m begl. This typically consists of stiff grey mottled brown/reddish brown slightly sandy to sandy slightly gravelly to gravelly clay with gravel being predominantly flint, chert, sandstone and rare quartzite, coal, mudstone and chalk.
Contamination	No visual or olfactory evidence of potential significant contamination was recorded during the fieldwork; however, ashy Made Ground was encountered in BH1 from 0.5 to 0.75 m begl and in BH3 from 0.35 to 1.1 m begl. In addition, possible asbestos fragments were encountered at BH4a in near-surface Made Ground.
Groundwater	Groundwater was encountered at depths of between 1.0 and 4.8 m begl in the boreholes during the fieldwork. Standing water levels have been recorded at 0.7 to 0.9 m begl and these probably reflect perched water in the Made Ground rather than the true groundwater table.

Phase II	Comments
Soil-Gas	No methane has been recorded during the monitoring programme and steady state carbon dioxide levels ranged from 0.2 to 0.6 % by volume (v/v). A maximum positive gas flow of 0.1 l/hr has been recorded and the ambient atmospheric pressures ranged from 994 to 1018 mb.
Environmental Assessment	Comments
Soil Contamination	All test results for the contaminants of concern are below the relevant assessment criteria (S4UL/C4SL/SSV). All samples were screened for the presence of asbestos; hard/cement type chrysotile was identified in one sample from BH4a at 0.2 m begl, confirming on-site observations. Subsequent quantification testing yielded a result of 0.256 %.
Risk Evaluation: Human Health	The only area of significant concern with respect to human health identified during the fieldwork and by the chemical testing is the presence of asbestos in the near-surface Made Ground in BH4a. BH4a was put down within the proposed footprint of an apartment block but as asbestos was clearly visible to the Georisk engineer supervising the fieldwork, it is considered that further action is necessary to avoid spreading the asbestos around the site during construction works and to be protective of site workers. It is recommended that the extent of asbestos impact around BH4a is delineated and all impacted soil excavated for off-site disposal. Any Made Ground that is taken off site would need to be taken to a suitably licensed tip under duty of care documentation. The asbestos quantification result (0.256 %) exceeds the hazardous waste threshold; and therefore, any asbestos impacted Made Ground removed from site would be potentially classified as hazardous waste. The removal of the asbestos impacted soil should be validated and verified by an independent engineer, who would prepare a Validation Report on completion of the works. The Validation Report should include the following information: photographic records, results of validation testing to confirm removal of asbestos-impacted materials, plan of the area excavated and waste transfer/carrier notes recording how much material was removed and where it was disposed. It is also recommended that an allowance is made for the provision of 150 to 300 mm of clean imported topsoil in landscaped areas to provide a growing medium for new planting – imported materials will need to be validated to demonstrate suitability for use.
Risk Evaluation: Soil Gas	Gas protection not considered necessary for the proposed development.
Statutory Consultation	The recommendations should be agreed with the Local Authority and NHBC in advance of development works starting on site.
Geotechnical Assessment	Comments
Foundations	This investigation has identified Made Ground to depths of between 1.3 and 1.4 m begl which is underlain by a thin layer of buried topsoil between 0.2 and 0.3 m thick. The Oadby Member (Glacial Till) typically comprising stiff clay was encountered at depths of between 1.5 and 1.7 m begl and proved to a maximum penetrated depth of 5.0 m begl. Buried obstructions, probably remnant foundations or basements/cellars of previous built development were encountered at depths of between 0.5 and 1.0 m begl in boreholes put down in the eastern half of the site. It is recommended that a turnover exercise is undertaken in this area in order to grub out these buried structures - Made Ground should be excavated in panels, allowing unsuitable material and obstructions to be chased out and removed. Following site preparatory work, it is considered that traditional spread footings should be viable extending through the Made Ground penetrating at least 300 mm into undisturbed Oadby Member. For a strip/trench fill foundation at a nominal depth of 1.5 to 2.0 m begl, an allowable bearing pressure of 110 kN/m² is considered appropriate for these materials with total settlements not anticipated to exceed 25 mm. This is based on SPT 'N' values from the in situ testing carried out in BH1, BH3 and BH4. Due consideration needs to be given to the volume change potential of the near-surface soils and presence of trees and hedgerows. Geotechnical testing of the near-surface soil indicates it should be classified as a shrinkable soil of medium volume change potential. There are trees and hedgerows along the site boundaries and any foundations near trees and hedgerows would need to be deepened and heave protection measures adopted in accordance with NHBC Standards Chapter 4.2 'Building Near Trees'.
Floor Slabs	In view of the thickness of Made Ground present, a suspended floor slab ('beam and block' with 250 mm underfloor void) is recommended.

Geotechnical Assessment	Comments
Pavement Design	It is anticipated that following preparatory works, Made Ground will provide the formation material and for preliminary design purposes a long-term equilibrium CBR value of 2 % should be assumed for the Made Ground. Caution would need to be exercised to ensure that any loose areas within the formation are excavated and filled with suitably compacted granular fill. Once road alignments and levels have been finalised, in situ CBR tests should be undertaken to allow detailed design of road formations to be made.
Buried Concrete	A Design Sulphate Class of DS-1 and an ACEC class of AC-1 apply at the site.
Dewatering	Based on the findings of this investigation, groundwater ingress may locally occur at shallow depths; however, any such ingress should be adequately controllable by sump pumping.
Excavations	Conventional mechanical excavation should be achievable to depths of at least 3 m begl; however, hydraulic breaking equipment may be required to grub out remnant foundations/cellars in the eastern half of the site. Shallow excavations should remain stable in the short-term; however, instability may occur in excavations left open for extended periods of time. Support should be provided in any excavations requiring man entry. Care should be taken to limit the exposure of any excavation prepared to receive concrete, which may cause deterioration and a reduction in bearing capacity. Any foundation excavations would need to be inspected by qualified personnel and any soft or loose materials that are encountered should be removed and replaced with compacted granular fill or lean mix concrete.
Soakaways	Given that the site is underlain by significant thicknesses of relatively impermeable Oadby Member (Glacial Till) and relatively shallow groundwater has been encountered, it is considered that the use of soakaways will not be viable and; therefore, an alternative drainage solution should be sought for the proposed development.
Additional Work	Comments
Various	This report should be submitted to all relevant regulators for approval prior to finalising development levels and before any construction work starts on site.

The above summary is intended for reference purposes only and specific details should be obtained by reading the entire report.

FOREWORD

This report has been prepared for the sole internal use and reliance of the Client(s) named on the Project Quality Assurance Information Sheet. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Georisk Management Ltd (Georisk). If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report should be read in its entirety, including all associated drawings and appendices. Georisk cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The findings and opinions conveyed in this report are based on information obtained from a variety of sources as detailed within this report and which Georisk believes is reliable. All reasonable care and skill has been applied in examining the information obtained, nevertheless, Georisk cannot and does not guarantee the authenticity or reliability of the information it has relied upon.

The report represents the findings and opinions of experienced geoenvironmental consultants. Georisk does not provide legal advice and the advice of lawyers may also be required.

Any recommendations made or opinions expressed in the Report are based on the exploratory hole records, an examination of samples and the results of the site and laboratory tests. No liability can be accepted for conditions not revealed by the exploratory holes particularly between positions. Whilst every effort is made to ensure accuracy of data supplied any opinion expressed as to the possible configuration of strata between or below investigation locations is for guidance only and no responsibility is accepted as to its accuracy.

Unless otherwise specifically stated, this report assumes that ground levels will not change significantly from those existing at present and that the proposed development will be of two to three storey construction. If this is not to be the case, some modifications to this report may be required.

The groundwater conditions entered on the borehole records and from any monitoring programme are those observed at the time of the investigation. Groundwater levels are susceptible to seasonal fluctuations and may be higher during wetter periods than those encountered during this investigation.

Where the report refers to the potential presence of invasive plant species, such as Japanese Knotweed, or the presence of possible asbestos containing materials, it should be noted that the observations are for information purposes only and should be verified by a suitably qualified expert.

Georisk reserves the right to amend the conclusions and recommendations made in this report in the light of any further or more detailed information that may become available.

GROUND INVESTIGATION

LAND ADJACENT TO 31 MOORE ROAD BARWELL, LEICESTER

1. INTRODUCTION

- 1.1 Georisk Management Limited (Georisk) has been instructed by MDB Steel to carry out a ground investigation of a plot of land adjacent to 31 Moore Road in Barwell, Leicester. The scope of work is set out in our proposal letter to MDB Steel of 5 January 2017 reference 17005/LO.001/AMG.
- 1.2 The site is to be developed with construction of three-storey apartment blocks together with soft landscaping and hard-surfacing for access roads and parking, as shown on the drawing entitled 'Proposed Residential Units' by Axon Architects included in Appendix A. The principal aims of this investigation are as follows:
- to carry out Phase I hazard identification and assessment (desk study) including determination of an initial conceptual model based on 'source-pathway-target' principles;
 - to determine the prevalent ground and groundwater conditions at the site;
 - to provide an assessment of the concentrations of a range of potential contaminants of concern within the near surface soils, including Phase II evaluation of risk to human health and environmental receptors;
 - to identify any potential geoenvironmental constraints or opportunities associated with the development of the site for a residential end use;
 - to provide general geotechnical design recommendations for the proposed development scheme.
- 1.3 This report presents the factual data obtained from the programme of fieldwork, monitoring and laboratory testing implemented by Georisk, together with an assessment of the contamination status of the near surface soils and general engineering considerations for the proposed development scheme.

2. INFORMATION SOURCES

- 2.1 The information sources used in the production of this report were as follows:
- site walkover to appraise current layout and conditions;
 - review of British Geological Survey (BGS) maps and publications;
 - review of available historical County Series and Ordnance Survey maps;
 - review of information contained within environmental databases maintained by the Environment Agency (EA) and other regulatory bodies provided in a site-specific Envirocheck report by Landmark Information Group dated January 2017;
 - information gained with respect to the ground and groundwater conditions established in the programme of fieldwork and monitoring carried out by Georisk;
 - appraisal of laboratory data resulting from chemical and geotechnical testing scheduled by Georisk;
 - topographic survey of the site by Greenhatch Group Drawing No.26276_T Rev. O, dated February 2017;
 - proposed site layout as shown on Drawing No. 151223-PL02 Rev. E prepared by Axon Architects, dated February 2016.

3. REFERENCE SOURCES

3.1 This report has been prepared with regard to the following sources of reference and guidance, supplemented with experience of similar sites:

- *Investigation of Potentially Contaminated Sites – Code of Practice. British Standards Institute BS10175 (2011);*
- *Code of Practice for Site Investigations. BS5930 (2015);*
- *Human health toxicological assessment of contaminants in soil. Science Report SC050021/SR2 EA (2009);*
- *Updated technical background to the CLEA Model. Science Report SC050021/SR3 EA (2009);*
- *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. SP1010 DEFRA/CL:AIRE (2014);*
- *The LQM/CIEH S4ULs for Human Health Risk Assessment. LQM 2015;*
- *Model Procedures for the Management of Land Contamination. CLR11, DEFRA and EA (2004);*
- *Guidance on Comparing Soil Contamination Data with a Critical Concentration. CIEH and CL:AIRE (2008);*
- *Guidance for the Safe Development of Housing on Land Affected by Contamination. R & D Publication 66, NHBC, Environment Agency and CIEH (2008);*
- *Concrete in Aggressive Ground. BRE Special Digest 1: Part 1 Assessing the aggressive chemical environment. Building Research Establishment (2005);*
- *Code of practice for the characterization and remediation from ground gas in affected developments. BS8485 (2015);*
- *Guidance on Evaluation of Development Proposals on sites where Methane and Carbon Dioxide are Present. NHBC report Edition No. 4 (2007);*
- *Assessing Risks Posed by Hazardous Ground Gases to Buildings. CIRIA Report C669 (2006);*
- *Passive venting of soil gases beneath buildings. DETR/ARUP Environmental PIT Research Report (1997);*
- *Protective measures for housing on gas-contaminated land. BRE/EA Report BR414 (2001);*
- *Site preparation and resistance to moisture. The Building Regulations 2000 Approved Document C (2004 edition);*
- *NHBC Standards (2011).*

4. THE SITE

- 4.1 The site comprises a plot of land adjacent to 31 Moore Road in Barwell, Leicester and can be located approximately by National Grid Reference 445000, 297460.
- 4.2 It covers an area of approximately 0.1 hectares and comprises a vacant plot of land with sparse vegetation. It is understood that the site was previously occupied by a public house in the 1950's which was replaced by a commercial warehouse for a frozen food wholesaler in the late 1960's. All buildings were reportedly demolished in 2007. The site layout is shown on Drawing No. 17005/1 included in Appendix A and in the aerial image overleaf.
- 4.3 Site levels drop by approximately 2 m in the northern part of the site towards the northern site boundary. A drainage ditch is present in the south-east of the site. Small stockpiles of demolition rubble were also observed in the south of the site.
- 4.4 The site is bordered by Moore Road to the south. Existing residential properties border the site to the east and a residential development under construction borders the site to the west. Radford Park is present to the north of the site. Much of the surrounding area comprises residential development.



Aerial image of site and its approximate boundary

4.5 No visual evidence of potential on-site significant contamination was observed during the site visit.

5. SITE HISTORY

5.1 The history of the site and the surrounding area has been assessed by reviewing available historical County Series and Ordnance Survey maps. The maps studied, with the approximate site boundary shown, are included in Appendix B of this report and a summary is presented in Table 1.

Year	Site	Surrounding Area
1886-1888	The site comprises undeveloped land.	Much of the surrounding area comprises agricultural fields. A few small ponds are mapped within 250 m; the nearest being approximately 100 m to the south. 'The Notleys' farm is situated approximately 250 m to the north-east. The village of Barwell is approximately 750 m to the south-west.
1903	No significant changes are mapped.	'Allotment Gardens' are mapped approximately 125 m to the south-west.
1916	No significant changes are mapped.	'Allotment Gardens' are also mapped approximately 200 m to the south-east.
1938	No significant changes are mapped.	The 'Allotment Gardens' are no longer mapped.
1955	No significant changes are mapped.	Moore Road borders the south of the site and residential development is mapped to the south, east and west. The village of Barwell has expanded northwards towards the site.
1964	Two buildings are mapped in the south and east of the site, one of which is indicated to be a 'Public House'.	Residential development has extended further south. 'Issues' are mapped approximately 100 m to the east and the associated watercourse flows in a northerly direction. 'Tennis Courts' and 'Allotment Gardens' are situated approximately 150 m to the north.

Year	Site	Surrounding Area
1969	The building on site is no longer recorded as a 'Public House'.	Residential development in the surrounding area is ongoing. A 'YMCA Club' is situated approximately 50 m to the north-west. The Red Hall Public House is mapped to the immediate west.
1978	No significant changes are mapped.	A primary school and college are now mapped approximately 250 m to the east and 300 m to the north-east respectively.
1985-1987	An unnamed building is mapped in the north-western corner of the site. The building in the southern part of the site is labelled No. 29.	The YMCA Club has been extended. 'Allotment Gardens' are mapped immediately to the north. Extensive residential development is mapped further north and east.
1991	No significant changes are mapped.	A 'Play Area' is situated to the immediate north.
1993-1994	No significant changes are mapped.	No significant changes are mapped.
2000	No significant changes are mapped.	The 'Allotment Gardens' to the north are no longer mapped.
2006	No significant changes are mapped.	No significant changes are mapped.
2016	Buildings are no longer mapped on site.	No significant changes are mapped.

Table 1: Summary of Historical Land Usage

6. GEOENVIRONMENTAL SETTING

6.1 Geology and Mining

Geology

6.1.1 The geology of the site has been appraised from information published by BGS (1:50,000 scale geological map sheet No. 155, Coalville) and is shown to comprise the Oadby Member (Glacial Till). The solid geology recorded beneath the site is the Gunthorpe Member of the Sidmouth Mudstone Formation of the Mercia Mudstone Group of Triassic age consisting of reddish brown mudstone with subordinate greenish-grey siltstone and fine-grained sandstone.

6.1.2 The presence of Made Ground associated with former built development at the site should also be anticipated.

Mining

6.1.3 The 'Interactive Map Viewer' on The Coal Authority website indicates the site lies outside a 'Coal Mining Reporting Area' and; therefore, no further assessment is required in respect of this potential development constraint.

6.2 Hydrology

6.2.1 The nearest surface water feature is an unnamed watercourse located approximately 120 m east of the site and is mapped to flow in a northerly direction – there are no rivers or streams within 250 m of the site.

6.2.2 The EA has no records of any active licensed discharge consents to controlled waters within 500 m of the site.

6.2.3 Based on current information provided by the EA, included in the Envirocheck report, the site is not in an area likely to be at risk from river flooding.

6.3 Hydrogeology

- 6.3.1 The Oadby Member is classified by the EA as a 'Secondary Aquifer - Undifferentiated', which is assigned *'in cases where it has not been possible to attribute either category A or B to a rock type. In most cases this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type'*.
- 6.3.2 The Gunthorpe Member is classified by the EA as a 'Secondary B' aquifer, which is defined as *'predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers'*.
- 6.3.3 The EA records indicate that there are no active groundwater abstractions within 500 m of the site.
- 6.3.4 The site is not within a groundwater Source Protection Zone.

6.4 Waste Management

- 6.4.1 The EA and Local Authority (LA) have no records of any historical or active landfills within 250 m of the site.
- 6.4.2 The LA holds records of four infilled ground features (water) mapped in 1904 to be within 250 m of the site; the nearest being 105 m to the south. No further details are provided.

6.5 Pollution

- 6.5.1 The EA has no records of any pollution incidents to controlled waters within 250 m of the site.

6.6 Radon

- 6.6.1 British Geological Survey data provided in the Envirocheck Report indicates that radon protection measures are not required for construction of new dwellings on the site.

6.7 Supporting Information

- 6.7.1 The Landmark Envirocheck supporting information is included in Appendix G.

7. INITIAL CONCEPTUAL MODEL AND INVESTIGATION STRATEGY

7.1 Environmental Setting

- 7.1.1 Based on the findings of the Phase I Desk Study presented in Sections 4 to 6 of this report, the environmental setting of the site can be summarised as follows:
- the site comprises a plot of land adjacent to 31 Moore Road in Barwell, Leicester and can be located approximately by National Grid Reference 445000, 297460;
 - it covers an area of approximately 0.1 hectares and comprises a cleared plot of land with areas of sparse vegetation;
 - site levels drop by approximately 2 m along the northern boundary. A drainage ditch is present towards the south-east of the site together with small stockpiles of demolition rubble;
 - no visual evidence of potential on-site significant contamination was observed during the site visit;

- the site comprised undeveloped land from at least 1886 until the late 1950's/early 1960's when two buildings were constructed. It is understood that the site was occupied by a public house and later a commercial unit. All buildings were demolished in 2007;
- the surrounding land use is predominantly residential;
- the geology beneath the site comprises the Oadby Member (Glacial Till) overlying the Gunthorpe Member of the Sidmouth Mudstone Formation of the Mercia Mudstone Group of Triassic age. Made Ground should be anticipated associated with former built development at the site;
- the site is not in an area affected by past underground coal mining;
- the Oadby Member is classified as a 'Secondary Aquifer - Undifferentiated';
- the Gunthorpe Member is classified as a 'Secondary – B' aquifer;
- the EA has no records of any licensed groundwater abstractions within 500 m of the site;
- it is not in a groundwater Source Protection Zone;
- the nearest surface water feature is an unnamed watercourse located approximately 120 m east of the site – there are no rivers or streams within 250 m of the site;
- the site is not mapped in an area likely to be affected by river flooding;
- the EA has no records of any operational or historic landfills within 250 m of the site;
- the LA holds records of four infilled ground features (water) within 250 m of the site; all are dated 1904 – no further details are provided;
- radon protection measures are not required for the proposed development.

7.2 Initial Conceptual Model and Preliminary Risk Assessment

General

7.2.1 The initial conceptual model and preliminary risk assessment are based on information derived from the desk study to provide a qualitative assessment of risk posed to human health and environmental receptors from potential on and off-site sources of contamination as defined within Part IIA of the Environmental Protection Act (1990). For a significant risk to exist, it must be established that contamination has the potential to cause harm to susceptible targets. This is known as “pollutant linkage” and requires three criteria to be identified at a significant level:

- the presence of substances that may cause harm (SOURCE);
- the presence of a receptor which may be harmed (TARGET);
- the existence of a plausible pollutant linkage between the source and the target (PATHWAY).

7.2.2 EA R&D66 (2008) includes a risk classification system based on classification of consequence and probability. The table below shows a risk matrix, in which the likelihood or probability of each pollutant linkage being realised is ranked against the severity of the consequences. The result is the risk classification, based upon which risk management actions can be implemented. The individual sources, pathways and receptors identified are assessed against this risk matrix; potential pollutant linkages and associated risks are recorded.

		Severity of Consequence			
		Severe	Medium	Mild	Minor
Probability of pollutant linkage	High Likelihood	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low Likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Table 2: Risk Matrix

- 7.2.3 Definitions of risk terminology are as follows.
- 7.2.4 **Very high risk:** there is a probability that severe harm could arise to a designated receptor from an identified source, or there is evidence that severe harm to a designated receptor is currently occurring.
- 7.2.5 **High risk:** harm is likely to arise to a designated receptor from an identified source.
- 7.2.6 **Moderate risk:** it is possible that harm could arise to a designated receptor from an identified source. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
- 7.2.7 **Low risk:** it is possible that harm could arise to a designated receptor from an identified source, but it is likely that this harm, if realised, would at worst normally be mild.
- 7.2.8 **Very low risk:** there is a low possibility that harm could arise to the receptor. In the event of such harm being realised it is not likely to be severe.
- 7.2.9 Professional judgement and experience has been used to estimate the combination of probability and consequence of the harm posed by the pollutant linkages identified. This allows the risk to be evaluated on a qualitative basis. The risk category is used to prioritise /target the site investigation. Using this matrix and the available screening limits it has been possible to carry out a semi-quantitative risk assessment for the sources, pathways and receptors which have been identified at the site.
- 7.2.10 The initial conceptual model also illustrates the contaminants of concern identified from the contamination assessment, and demonstrates the potential pathways and receptors which are considered likely to exist at the site. Contamination management options are also included, which indicate the most appropriate methods by which the identified risks can be mitigated.
- 7.2.11 Risk is based on a consideration of both:
- the likelihood of an event (probability); and
 - the severity of the potential consequences.
- 7.2.12 A pollutant linkage must be established before tests for probability and consequence are applied. If there is no pollutant linkage then there is no potential risk and there is no need to apply tests for probability and consequence. The risk assessment needs to include a logical and transparent system to define categories of severity of consequence and probability of occurrence. The initial conceptual model and preliminary risk assessment are discussed below.

Proposed Development

- 7.2.13 The proposed development is to comprise three-storey apartment blocks together with soft landscaping and hard-surfacing for access roads and parking, as shown on the drawing entitled 'Proposed Residential Units' by Axon Architects included in Appendix A.

Potential On-Site Sources of Contamination

7.2.14 Based on information derived from the Phase I Desk Study, the following potential significant on-site sources of contamination have been identified that could affect the proposed development of the site:

- Made Ground associated with past built development at the site;
- hazardous soil-gases derived from any on-site Made Ground.

Potential Off-Site Sources of Contamination

7.2.15 Based on information derived from the Phase I Desk Study, no potential significant off-site sources of contamination have been identified that could affect the proposed development.

Targets/Receptors

7.2.16 The following site-specific targets are considered to be potentially feasible:

- site workers – construction personnel involved in redevelopment works;
- long term site users – apartment occupants;
- plant life – landscaped areas;
- building fabric and foundations;
- controlled waters: 'Secondary A – Undifferentiated' aquifer (Oadby Member);
- controlled waters: 'Secondary B' aquifer (Gunthorpe Member).

Pathways

7.2.17 The potential pathways that are considered relevant to the site are as follows:

- direct contact with and/or incidental ingestion of any contaminated soils or dusts derived from contaminated soil;
- inhalation of dust derived from any contaminated soil;
- direct contact between contaminated soils and building substructures;
- migration of contaminants into controlled water receptors via groundwater beneath the site;
- migration of hazardous soil-gases and vapours via permeable strata or via ducts/drains into confined spaces.

Pollutant Linkages

7.2.18 On the basis of the 'source-pathway-target' information presented above, the following potential pollutant linkages have been identified at the site:

Source	Pathway	Target	Consequence	Probability	Risk
Made Ground	Dermal contact	Site user: apartment occupant	Mild	Low	Low
		Site construction worker	Mild	Unlikely	Very low
	Ingestion	Site user: apartment occupant	Mild	Low	Low
		Site construction worker	Mild	Unlikely	Very low
	Dermal contact with dust derived from contaminated soil	Site user: apartment occupant	Mild	Low	Low
		Site construction worker	Mild	Unlikely	Very low
	Ingestion of dust derived from contaminated soil	Site user: apartment occupant	Mild	Low	Very low
		Site construction worker	Mild	Unlikely	Very low
	Inhalation of dust derived from contaminated soil	Site user: apartment occupant	Mild	Low	Very low
		Site construction worker	Mild	Unlikely	Very low
	Direct contact	Buildings	Minor	Unlikely	Very low
	Direct contact	Water supply pipework	Minor	Unlikely	Very low
	Inhalation of hazardous soil-gases in confined spaces	Site user: apartment occupant	Medium	Unlikely	Low
	Migration of mobile contaminants	Controlled waters	Minor	Unlikely	Very low

Table 3: Pollutant Linkages

7.2.19 Based on the known previous land usage of the site and surrounding area and its geological setting, it is considered that the site represents a **very low** risk to controlled waters. No further assessment of risk to controlled waters is considered necessary unless significant contamination is identified at the site.

7.2.20 Based on the proposed end use of the site, the site is considered to represent a **low** risk to human health, which should be assessed through a programme of chemical testing and risk assessment in accordance with current guidance (CLEA).

Contaminants of Concern

7.2.21 The following potential contaminants are considered appropriate for the assessment of the site:

- selected toxic and phytotoxic metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc);
- speciated polyaromatic hydrocarbons (PAH);
- pH;
- cyanide;
- phenol;
- sulphate;
- asbestos (where Made Ground is present).

7.3 Investigation Strategy

7.3.1 Based on the information presented above, the strategy proposed for the ground investigation is shown in Table 4.

Exploratory Holes	Purpose
All exploratory holes; dynamic percussive boreholes	To determine prevalent ground and groundwater conditions across site, including: · nature and extent of any Made Ground; · nature and extent of any soil contamination; · suitability of the ground for foundations and pavement design.
All boreholes	Undertake in-situ Standard Penetrations Tests (SPT) to determine a geotechnical strength profile.
Selected boreholes	Construction of groundwater and soil-gas monitoring installation to facilitate assessment of risk posed by any hazardous soil-gases and establish standing water levels.

Table 4: Investigation Strategy

8. FIELDWORK AND LABORATORY TESTING

8.1 Fieldwork

8.1.1 The fieldwork was carried out on 16 January 2017 and comprised the following elements:

- 8 No. dynamic sampling boreholes, designated BH1, BH2a to BH2d, BH3 and BH4a – BH4b, put down to a maximum depth of 5.0 m below existing ground level (begl);
- construction of a 50 mm diameter combined soil-gas and groundwater monitoring well in BH3;
- in situ Standard Penetration Tests (SPT) in BH1, BH3 and BH4a.

8.1.2 The fieldwork was supervised by Georisk. All soil description and sample logging was carried out in accordance with BS 5930 (2015) and the exploratory hole records are presented in Appendix C.

8.1.3 The positions of the exploratory holes were set out by Georisk and their approximate locations are shown on the Exploratory Hole Location Plan included as Drawing No. 17005/1 in Appendix A.

8.1.4 Small disturbed samples were recovered from the exploratory holes as necessary to facilitate sample description and for subsequent laboratory testing.

8.1.5 Observations of groundwater encountered during the fieldwork are included on the relevant exploratory hole records included in Appendix C.

8.2 Soil-Gas and Groundwater Monitoring

8.2.1 A combined soil-gas and groundwater monitoring installation was constructed in BH3 as shown on the borehole records included in Appendix C. Monitoring has been carried out on three occasions between 25 January and 22 February 2017. The results of the monitoring are included in Appendix D and the following measurements were taken in sequence:

- atmospheric pressure (mb);
- relative pressure (mb);
- flow monitoring (l/hr);
- measurement of CO₂, CH₄ and O₂ gas concentrations (% by volume; % v/v);
- groundwater level (m begl).

8.2 Chemical Testing

- 8.2.1 A programme of chemical testing was scheduled by Georisk on selected soil samples retrieved from the exploratory holes. The testing was carried out at an independent UKAS accredited laboratory for the contaminants of concern as indicated in Section 7. The chemical test results are presented in Appendix E.

8.3 Geotechnical Testing

- 8.3.1 Routine geotechnical testing comprising moisture content and Atterberg Limits was carried out on selected samples. The testing was carried out in accordance with BS1377 (1990) at an independent UKAS accredited laboratory and the results are presented in Appendix F.

9. GROUND AND GROUNDWATER CONDITIONS

9.1 General

- 9.1.1 Full details of the ground conditions encountered by Georisk are presented on the exploratory hole records included in Appendix C; however, a summary is presented below.

9.2 Made Ground

- 9.2.1 Made Ground was encountered across the site to depths of between 1.3 and 1.4 m begl. It typically comprises an upper layer of demolition rubble consisting of slightly clayey gravelly sand and gravel with cobbles. The gravel content was noted to comprise predominantly brick, concrete, quartzite with rare coal, ash and wood and possible asbestos cement. Black ashy gravel of coal and clinker was observed within BH1 from 0.5 to 0.7 m begl.
- 9.2.2 The upper layer overlies reworked natural material consisting of soft to firm becoming firm to stiff slightly gravelly to gravelly sandy to very sandy clay varying to loose slightly clayey slightly gravelly sand with gravel content comprising quartzite, flint, chert, coal, sandstone and brick.
- 9.2.3 The Made Ground was not fully penetrated in BH2a to BH2d inclusive and BH4b with concrete and brick obstructions encountered at depths of between 0.5 and 1.0 m begl indicating the probable presence of remnant foundations/slabs or basements/cellars of former buildings.
- 9.2.4 The results of 3 No. Standard Penetration Tests (SPT) carried out in Made Ground at a depth of 1.0 m begl returned 'N' values of 8 and 9, which are indicative of firm clay and loose sand.

9.3 Buried Topsoil

- 9.3.1 Buried topsoil was encountered in BH1, BH3 and BH4a at depths of 1.3 and 1.5 m begl and extended to depths of between 1.5 and 1.7 m begl. It comprises soft to firm very sandy locally slightly gravelly clay.

9.4 Oadby Member

- 9.4.1 The Oadby Member was encountered beneath buried topsoil at depths of between 1.5 and 1.7 m begl and was proved to a maximum penetrated depth of 5.0 m begl.
- 9.4.2 This typically consists of stiff grey mottled brown/reddish brown slightly sandy to sandy slightly gravelly to gravelly clay with gravel being predominantly flint, chert, sandstone and rare quartzite, coal, mudstone and chalk.
- 9.4.3 The results of 10 No. SPTs carried out in the Oadby Member at depths of between 2.0 and 5.0 m begl returned 'N' values between 9 and 38, which are summarised in Table 5.

Depth (m begl)	Minimum SPT 'N' value	Maximum SPT 'N' value	Material Description
2.0	9	14	Stiff CLAY
3.0	20	38	Stiff CLAY
4.0	24	32	Stiff CLAY
5.0	24	-	Stiff CLAY

Table 5: Summary of SPT Results in the Oadby Member

- 9.4.4 Three samples of Oadby Member were scheduled for Atterberg Limit determinations and natural moisture content tests. The test results are included in Appendix F and shown on Drawing No. 17005/2 in Appendix A together with a summarisation in Table 6.

Test	Minimum (%)	Maximum
Liquid Limit	41	55
Plastic Limit	18	20
Plasticity Index	22	35
Modified Plasticity Index	22	35
Moisture Content	19	26
Plasticity	Medium	High
Volume Change Potential	Medium	-

Table 6: Summary of Atterberg Limit Tests on the Oadby Member

9.5 Evidence of Potential Contamination

- 9.5.1 No visual or olfactory evidence of potential significant contamination was recorded during the fieldwork; however, ashy Made Ground was encountered in BH1 from 0.5 to 0.75 m begl and in BH3 from 0.35 to 1.1 m begl. In addition, possible asbestos fragments were encountered at BH4a in near-surface Made Ground.

9.6 Groundwater

- 9.6.1 Groundwater was encountered at depths of between 1.0 and 4.8 m begl in the boreholes during the fieldwork.
- 9.6.2 A groundwater monitoring standpipe was installed in BH3 and has been monitored on three occasions between 25 January and 22 February 2017. Standing water levels have been recorded at 0.7 to 0.9 m begl throughout the monitoring period and these probably reflect perched water in the Made Ground rather than the true groundwater table.

9.7 Soil-Gas

- 9.7.1 The results of the soil-gas monitoring programme are presented in Appendix D and discussed in Section 11 of this report.

9.8 Development of Conceptual Model

- 9.8.1 Based on the ground and groundwater conditions revealed by the geoenvironmental investigation carried out and detailed above, the preliminary conceptual model described in Section 7 is considered to be representative of the actual site conditions in relation to the proposed development.

10. HUMAN HEALTH RISK ASSESSMENT

10.1 General

- 10.1.1 The UK approach to the assessment of contaminated land is based upon the principles of risk assessment, which is founded on the use of “*source-pathway-target*” principles in order to establish the potential presence of “*pollutant linkage*”. The main legislative driver for dealing with historical land affected by contamination is Part 2A of the Environmental Protection Act 1990. Under Part 2A, land is considered to be contaminated if it is determined that there is a ‘*Significant Possibility of Significant Harm*’ (SPOSH) to human health.
- 10.1.2 Georisk adopts a tiered approach to risk assessment in accordance with current UK guidance and good practice. The initial step of this process, known as Tier 1, is the comparison of site-derived data with relevant guideline levels.
- 10.1.3 Should the adopted criteria be exceeded then two courses of action are available. The first is to break the pollutant linkage by undertaking remedial works such as removing or treating the contaminated soil. Alternatively a more detailed risk assessment can be carried out to determine whether a contamination risk actually exists.
- 10.1.4 The UK approach to the assessment of human health risk from contaminated land is set out in the CLEA (Contaminated Land Exposure Assessment) framework, which was first published in 2002 by the Department for Environment, Food and Rural Affairs (DEFRA) and the EA. The original guidance was withdrawn and revised guidance issued in 2009, which is set out in the following documents published by the EA:
- *Human health toxicological assessment of contaminants in soil*. Science Report SC050021/SR2;
 - *Updated technical background to the CLEA Model*. Science Report SC050021/SR3.
- 10.1.5 The CLEA model uses generic assumptions about the fate and transport of chemicals in the environment and a generic conceptual model for site conditions together with human behaviour to estimate long term human exposure to soil contaminants.
- 10.1.6 Soil Guideline Values (SGV) were derived using the CLEA Model by comparing estimated exposure with ‘Health Criteria Values’ (HCV) that represent a tolerable risk to health from chronic exposure. SGVs are scientifically based ‘generic assessment criteria’ that can be used to simplify the assessment of risk to human health from chronic exposure to contaminants in soil. SGVs are a screening tool for the ‘generic quantitative risk assessment’ of land contamination.

- 10.1.7 Since revised SGVs were developed in 2009, revised Part 2A statutory guidance was then published in 2012. The revised Part 2A statutory guidance introduces a four category system for classifying land under Part 2A for cases of SPOSH to human health. Category 4 applies to land where the level of risk posed is acceptably low. DEFRA appointed CL:AIRE to develop 'Category 4 Screening Levels' (C4SL), which would provide a simple test for deciding when land is suitable for use and definitely not contaminated. In March 2014, C4SLs were published for a limited number of contaminants.
- 10.1.8 Further to this, Suitable for Use Levels (S4UL) published by the Chartered Institute of Environmental Health (CIEH) and Land Quality Management (LQM) were issued in January 2015. These provide a comprehensive update of previous GAC published by CIEH. The S4UL are derived from the CLEA software produced by the EA and are based upon the concept of either 'tolerable' risk (where the relevant health criteria value is a tolerable daily intake), or 'minimal' risk (where the health criteria is an index dose).
- 10.1.9 The following hierarchy has been adopted by Georisk for determining which assessment criteria to be followed:
- Suitable 4 Use Levels (S4UL) developed by LQM/CIEH (2015);
 - Category 4 Screening Levels (C4SL);
 - CLEA SGV;
 - Soil Screening Values developed by Atkins AtRisk.

10.2 Human Health Risk Assessment Design

Proposed Development

- 10.2.1 The proposed development is to comprise three-storey apartments together with soft landscaping and hard-surfacing for access roads and parking, as shown on the drawing entitled 'Proposed Residential Units' by Axon Architects included in Appendix A.

Assessment Criteria

- 10.2.2 The assessment criteria used for the screening of contaminants is summarised in Table 7.

Contaminant Group	Determinands	Assessment Criteria Selected
ORGANIC CONTAMINANTS		
Non-halogenated hydrocarbons	Phenol	LQM/CIEH S4UL
Polyaromatic Hydrocarbons (PAH)	USEPA 16 priority compounds	LQM/CIEH S4UL
INORGANIC CONTAMINANTS		
Metals	Lead	C4SL
	Arsenic, Cadmium, Chromium, Copper, Mercury, Nickel, Selenium, Zinc	LQM/CIEH S4UL
Non-metals	Cyanide	Atkins AtRisk Soil Screening Value (SSV)

Table 7: Human Health Risk Assessment Criteria

- 10.2.3 It should be noted that there is no S4UL for lead and that the SGV for lead has been withdrawn. As such, the only available authoritative published criteria for lead is the DEFRA C4SL. The C4SL for lead is considerably more conservative than the former SGV and is therefore considered appropriate for use.

End Use

- 10.2.4 In view of the proposed development, a 'residential without homegrown produce' with 1 % organic matter content end use conceptual model is considered appropriate for the site.

Statistical Analysis

- 10.2.5 In view of the small size of the site, it is considered appropriate to assess contaminant levels by comparing test results with the relevant C4SL/S4UL/SSV rather than carrying out statistical analysis.

Contaminants of Concern

- 10.2.6 The potential contaminants of concern are detailed in Section 7 and these contaminants have subsequently been targeted for chemical analysis.

10.3 Generic Quantitative Human Health Risk Assessment

- 10.3.1 The results of the chemical testing from the site can be summarised in Table 8.

Contaminant of Concern	Measured Concentration		Critical Concentration (S4UL/C4SL/SSV)	Number of Results that Exceed (S4UL/C4SL/SSV)
	Min	Max		
Arsenic	6.3	7.3	40	0 (3)
Cadmium	< 0.2	-	85	0 (3)
Chromium	8.3	18	910	0 (3)
Copper	22	28	7100	0 (3)
Cyanide	< 1	-	34	0 (3)
Lead	7.3	25	310	0 (3)
Mercury	< 0.3	-	56	0 (3)
Nickel	13	18	180	0 (3)
Phenol	< 1.0	-	440	0 (3)
Selenium	< 1.0	-	430	0 (3)
Zinc	47	68	40000	0 (3)
PAH Compounds				
Acenaphthene	< 0.1	-	3000	0 (3)
Acenaphthylene	< 0.1	-	2900	0 (3)
Anthracene	< 0.1	-	31000	0 (3)
Benzo(a)anthracene	< 0.1	-	11	0 (3)
Benzo(a)pyrene	< 0.1	-	3.2	0 (3)
Benzo(b)fluoranthene	< 0.1	-	3.9	0 (3)
Benzo(ghi)perylene	< 0.05	-	360	0 (3)
Benzo(k)fluoranthene	< 0.1	-	110	0 (3)
Chrysene	< 0.05	-	30	0 (3)
Dibenz(ah)anthracene	< 0.1	-	0.31	0 (3)
Fluoranthene	< 0.1	-	1500	0 (3)
Fluorene	< 0.1	-	2800	0 (3)
Indeno(123-cd)pyrene	< 0.1	-	45	0 (3)
Naphthalene	< 0.05	-	2.3	0 (3)
Phenanthrene	< 0.1	-	1300	0 (3)
Pyrene	< 0.1	-	3700	0 (3)
Assumption of 1 % soil organic matter. Concentrations expressed in mg/kg.				

Table 8: Summary of Chemical Test Results

- 10.3.2 All test results for the contaminants of concern are below the relevant assessment criteria (S4UL/C4SL/SSV).

- 10.3.3 Concentrations of phytotoxic metals are present at levels below those considered to present a risk to plant growth (refer to BS3882:2015 for details).
- 10.3.4 All samples were screened for the presence of asbestos; hard/cement type chrysotile was identified in one sample from BH4a at 0.2 m begl, confirming on-site observations. Subsequent quantification testing yielded a result of 0.256 %.

10.4 Remedial Action Plan – Human Health

- 10.4.1 As reported above, the only area of significant concern with respect to human health identified during the fieldwork and by the chemical testing is the presence of asbestos in the near-surface Made Ground in BH4a.
- 10.4.2 BH4a was put down within the proposed footprint of an apartment block but as asbestos was clearly visible to the Georisk engineer supervising the fieldwork, it is considered that further action is necessary to avoid spreading the asbestos around the site during construction works and to be protective of site workers.
- 10.4.3 It is recommended that the extent of asbestos impact around BH4a is delineated and all impacted soil excavated for off-site disposal. Any Made Ground that is taken off site would need to be taken to a suitably licensed tip under duty of care documentation. The asbestos quantification result (0.256 %) exceeds the hazardous waste threshold; and therefore, any asbestos impacted Made Ground removed from site would be potentially classified as hazardous waste.
- 10.4.4 The removal of the asbestos impacted soil should be validated and verified by an independent engineer, who would prepare a Validation Report on completion of the works. The Validation Report should include the following information: photographic records, results of validation testing to confirm removal of asbestos-impacted materials, plan of the area excavated and waste transfer/carrier notes recording how much material was removed and where it was disposed.
- 10.4.5 It is also recommended that an allowance is made for the provision of 150 to 300 mm of clean imported topsoil in landscaped areas to provide a growing medium for new planting (see Section 10.5 below).
- 10.4.6 During redevelopment of the site, construction workers are likely to be in direct contact with the near surface soils and appropriate Health and Safety measures will need to be implemented based on the findings of this investigation - vigilance should be maintained during all site works for the possible presence of asbestos and all health and safety procedures should reflect this.
- 10.4.7 If during construction works areas of previously unidentified potentially contaminated soil are encountered, we would recommend consultation with Georisk to ensure that our recommendations continue to apply. Any potentially contaminated soils would need to be left in situ pending further assessment.
- 10.4.8 The chemical test data should be submitted to all relevant utility providers and recommendations made by the utility companies in respect of buried services should be adhered to during the works.
- 10.4.9 This report should be submitted to all relevant regulators for approval prior to finalising development levels and before any construction work starts on site.

10.5 Topsoil Validation

- 10.5.1 All topsoil imported onto site for use in the landscaped areas will need to undergo validation testing. The schedule for this testing would need to be agreed with the Local Authority in advance and would be dependent on the source of the imported materials. The testing regime and site acceptance criteria in Table 9 are based on soil from a 'greenfield' source: however, if a recycled product was to be used further tests, such as asbestos, may be required:

Determinand	Maximum Allowable Concentration (mg/kg)
Arsenic	40
Asbestos	Not present
Cadmium	85
Chromium	910
Copper	7100
Cyanide	34
Lead	310
Mercury	56
Nickel	180
Polyaromatic Hydrocarbon Compounds	LQM/CIEH S4ULs for PAH compounds
Phenol	440
Selenium	430
Total Petroleum Hydrocarbons	LQM/CIEH S4ULs for aliphatic/aromatic carbon ranges
Zinc	40000

Table 9: Chemical Criteria for Clean Cover

- 10.5.2 In addition, any topsoil materials should be free from large stones and deleterious materials based on the guidance presented in BS 3882:2015.
- 10.5.3 The testing outlined above should be carried out at an independent UKAS accredited laboratory and certification results made available in advance of any topsoil being imported onto site to confirm that they are suitable for use. All materials imported onto site will also need to be sampled and tested after placement to validate the pre-importation test results – this information will also need to be provided to the Local Authority and, if required, NHBC.

11. SOIL-GAS RISK ASSESSMENT

11.1 Risk Assessment Protocol

- 11.1.1 Current best practice for the assessment of soil-gas risk to non-low rise housing developments is given in CIRIA Report C665 'Assessing Risks Posed by Hazardous Ground Gases to Buildings' (2007) and BS8485 (2015) 'Code of practice for the characterization and remediation from ground gas in affected developments'.
- 11.1.2 C665 sets out a semi-quantitative procedure to estimate gas risk, which was proposed by Wilson & Card (1999) and is a development of a procedure given in CIRIA 149 (1995). This method also uses both gas concentrations and borehole flow rates to define a Characteristic Situation for a site based on the limiting gas volume flow for methane and carbon dioxide. For a given Characteristic Situation, a set of remedial measures can be applied to the development.

11.2 Monitoring Results

11.2.1 The gas well constructed in BH3 has been monitored on three occasions between 25 January and 22 February 2017. The results of the soil-gas monitoring are summarised in Table 10 (in terms of maximum gas concentrations for methane and steady-state concentrations for carbon dioxide).

Well	Methane Concentrations (% v/v)	Carbon Dioxide Concentrations (% v/v)	Positive Flow Rates (l/hr)	Methane Gas Screening Value (GSV) (l/hr)	Carbon Dioxide Gas Screening Value (GSV) (l/hr)
BH3	0.0	0.2 – 0.6	0.1	n/a	0.0006

Table 10: Summary of Soil-Gas Monitoring Results

11.2.2 No methane has been recorded during the monitoring programme.

11.2.3 Steady state carbon dioxide levels range from 0.2 to 0.6 % by volume (v/v).

11.2.4 A maximum positive gas flow of 0.1 l/hr has been recorded and the ambient atmospheric pressures ranged from 994 to 1018 mb.

11.3 Assessment and Protection Strategy Recommendations

11.3.1 For a 'Characteristic Situation 1', the typical maximum concentrations for methane (1%) and carbon dioxide (5%) have not been exceeded.

11.3.2 A maximum GSV of 0.0006 l/hr has been calculated, which equates to Characteristic Situation 1 for which the GSV should be below <0.07 l/hr.

11.3.3 A Characteristic Situation 1 classification is indicative of very low risk conditions that would not require gas protection to buildings.

11.3.4 Radon protection is not required for the proposed type of development at the site.

11.3.5 These recommendations should be agreed with the Local Authority and NHBC in advance of development works starting on site.

12. ENGINEERING CONSIDERATIONS

12.1 Foundation Design

- 12.1.1 The proposed development is to comprise three-storey apartment blocks together with soft landscaping and hard-surfacing for access roads and parking, as shown on the drawing entitled 'Proposed Residential Units' by Axon Architects in Appendix A.
- 12.1.2 This investigation has identified Made Ground to depths of between 1.3 and 1.4 m begl which is underlain by a thin layer of buried topsoil between 0.2 and 0.3 m thick. The Oadby Member (Glacial Till) typically comprising stiff clay was encountered at depths of between 1.5 and 1.7 m begl and proved to a maximum penetrated depth of 5.0 m begl.
- 12.1.3 Buried obstructions, probably remnant foundations or basements/cellars of previous built development were encountered at depths of between 0.5 and 1.0 m begl in boreholes put down in the eastern half of the site. It is recommended that a turnover exercise is undertaken in this area in order to grub out these buried structures - Made Ground should be excavated in panels, allowing unsuitable material and obstructions to be chased out and removed.
- 12.1.4 Following site preparatory work, it is considered that traditional spread footings should be viable extending through the Made Ground penetrating at least 300 mm into undisturbed Oadby Member.
- 12.1.5 For a strip/trench fill foundation at a nominal depth of 1.5 to 2.0 m begl, an allowable bearing pressure of 110 kN/m² is considered appropriate for these materials with total settlements not anticipated to exceed 25 mm. This is based on SPT 'N' values from the in situ testing carried out in BH1, BH3 and BH4.
- 12.1.6 Due consideration needs to be given to the volume change potential of the near-surface soils and presence of trees and hedgerows. Geotechnical testing of the near-surface soil indicates it should be classified as a shrinkable soil of medium volume change potential. There are trees and hedgerows along the site boundaries and any foundations near trees and hedgerows would need to be deepened and heave protection measures adopted in accordance with NHBC Standards Chapter 4.2 '*Building Near Trees*'.

12.2 Floor Slabs

- 12.2.1 In view of the thickness of Made Ground present, a suspended floor slab ('beam and block' with 250 mm underfloor void) is recommended.

12.3 Buried Concrete Requirements

- 12.3.1 For the near-surface soils, water soluble sulphate testing results (expressed as SO₄ in a 2:1 water:soil extract) were 0.019 to 0.14 g/l with pH values of 6.8 to 8.6. Following the guidance given in the BRE Special Digest 1 (2005) and assuming '*mobile*' groundwater conditions for '*brownfield*' locations, the Aggressive Chemical Environment for Concrete (ACEC) classification has been determined. These results indicate a Design Sulphate Class of DS-1 and an ACEC class of AC-1 apply at the site.

12.4 Road/Pavement Design

- 12.4.1 It is anticipated that following preparatory works, Made Ground will provide the formation material and for preliminary design purposes a long-term equilibrium CBR value of 2 % should be assumed for the Made Ground.
- 12.4.2 Caution would need to be exercised to ensure that any loose areas within the formation are excavated and filled with suitably compacted granular fill. Once road alignments and levels have been finalised, in situ CBR tests should be undertaken to allow detailed design of road formations to be made.

12.5 Excavations

- 12.5.1 Conventional mechanical excavation should be achievable to depths of at least 3 m begl; however, hydraulic breaking equipment may be required to grub out remnant foundations/cellars in the eastern half of the site.
- 12.5.2 Shallow excavations should remain stable in the short-term; however, instability may occur in excavations left open for extended periods of time. Support should be provided in any excavations requiring man entry.
- 12.5.3 Care should be taken to limit the exposure of any excavation prepared to receive concrete, which may cause deterioration and a reduction in bearing capacity. Any foundation excavations would need to be inspected by qualified personnel and any soft or loose materials that are encountered should be removed and replaced with compacted granular fill or lean mix concrete.
- 12.5.4 Based on the findings of this investigation, groundwater ingress may locally occur at shallow depths; however, any such ingress should be adequately controllable by sump pumping.

12.6 Soakaways

- 12.6.1 Given that the site is underlain by significant thicknesses of relatively impermeable Oadby Member (Glacial Till) and relatively shallow groundwater has been encountered, it is considered that the use of soakaways will not be viable and; therefore, an alternative drainage solution should be sought for the proposed development.

**APPENDIX A
DRAWINGS**

Drawing No.	Drawing Title
151223-PL02 Rev. E	'Proposed Residential Units' by Axon Architects dated February 2016
17005/1	Exploratory Hole Location Plan
17005/2	Plasticity Chart – Oadby Member

Notes

This drawing is the copyright of georisk management ltd and no part of it may be reproduced, copied or used without express written permission.
This drawing is to be read in conjunction with all development drawings, and designers risk assessments.
This drawing must not be scaled. Work to figured dimensions only.

KEY



Dynamic Percussive
Sampling Borehole



Site Boundary

MDB STEEL

georisk
MANAGEMENT

Samuel Peart, Senior Technical Services, 1st Floor, 666 187
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Contract

LAND ADJACENT TO
31 MOORE ROAD
BARWELL, LEICESTER

Drawing Title

EXPLORATORY HOLE
LOCATION PLAN

Drawing Status

FINAL

Drawn By

MY

Date

13/02/17

Checked/Approved

AMG

Date

13/02/17

Scale

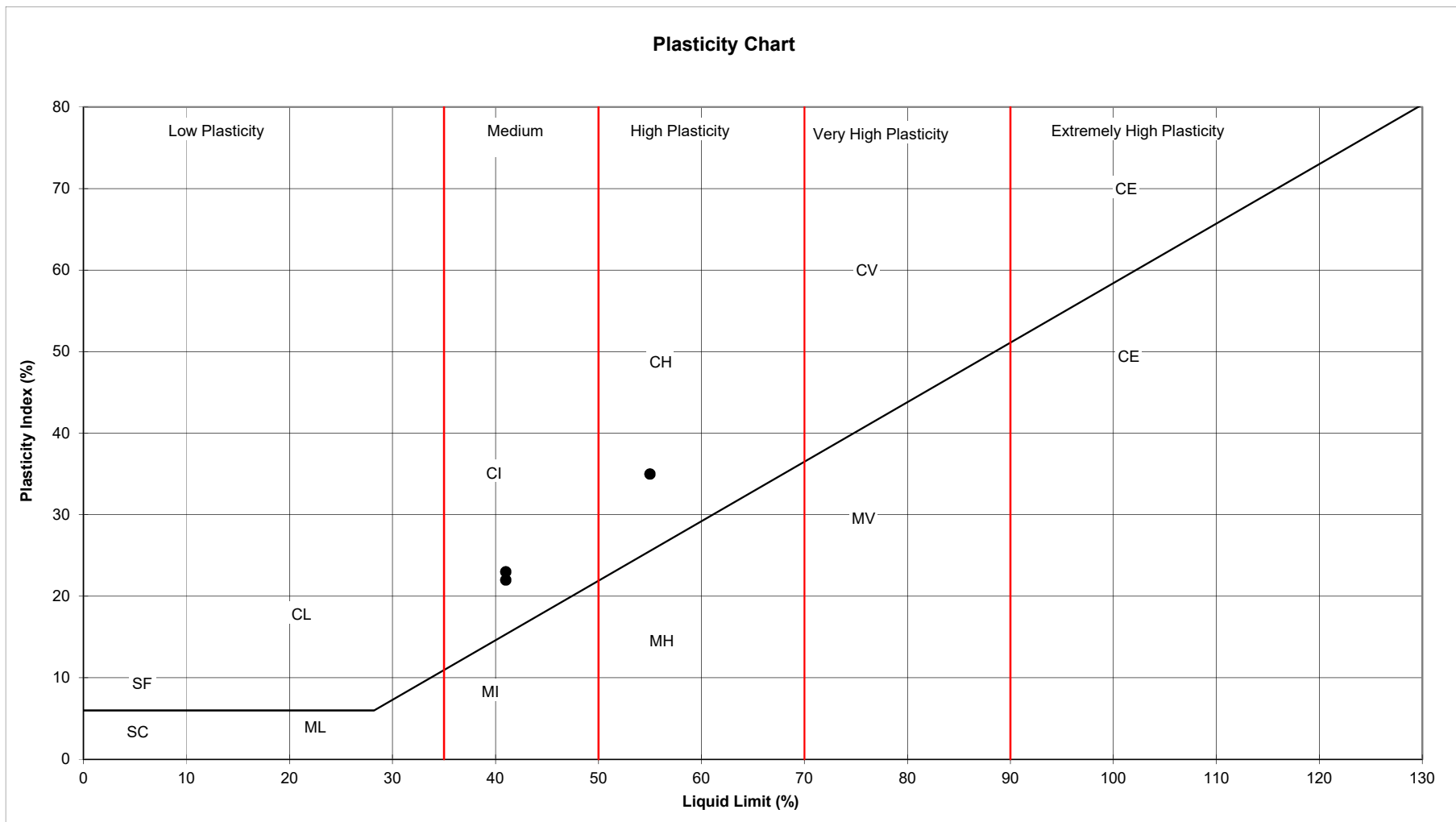
NTS

Drawing Number

17005/1

GRID
NORTH





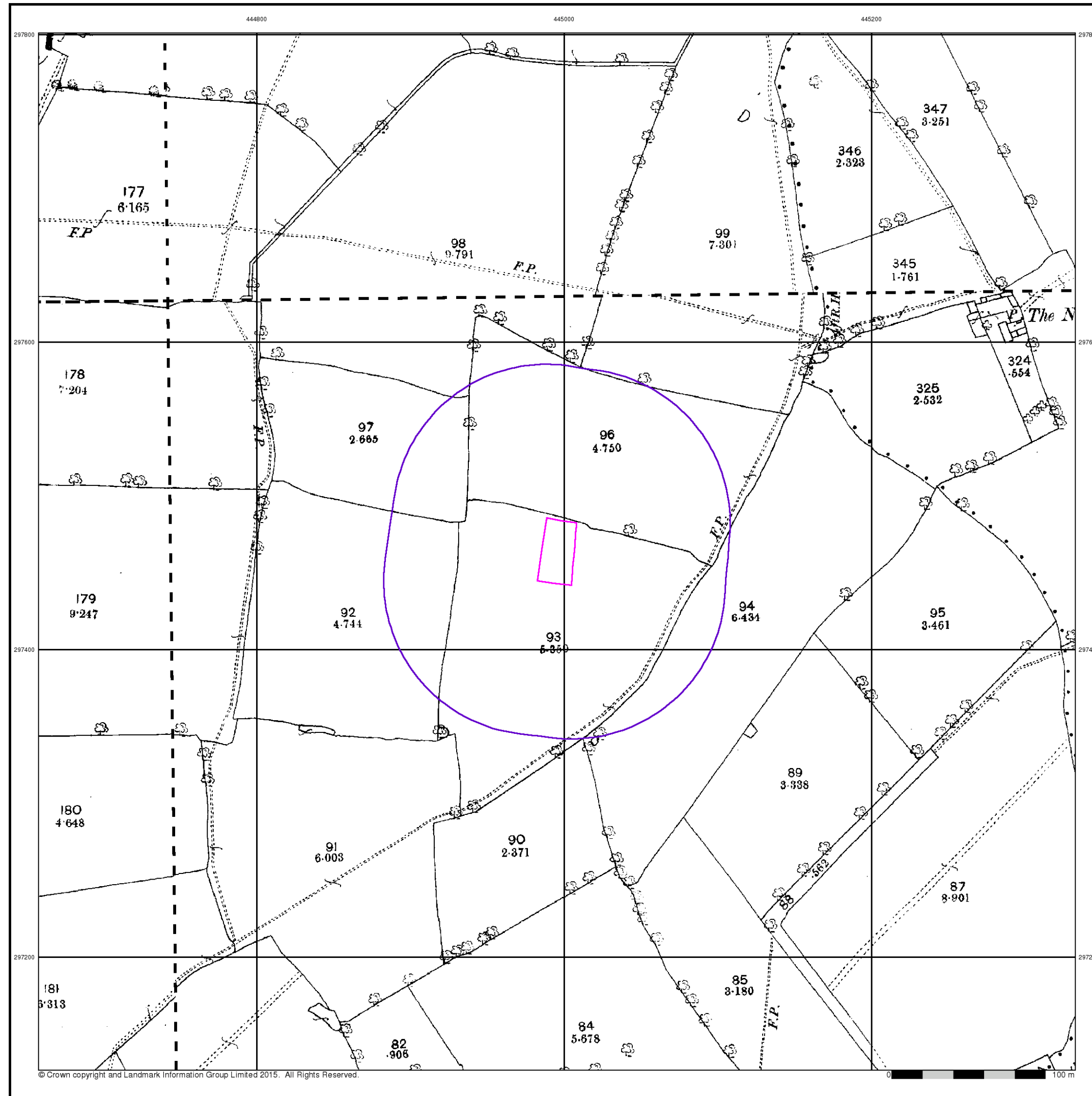
APPENDIX B
HISTORICAL MAP EXTRACTS

Historical Mapping Legends

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







Leicestershire

Published 1886 - 1888

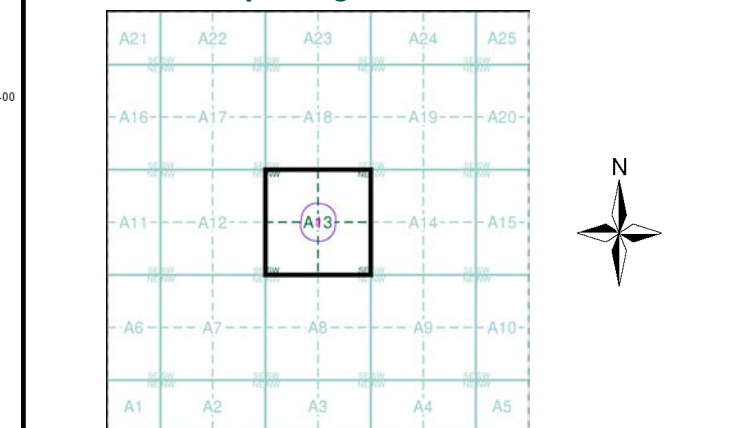
Source map scale - 1:2,500

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)

035_12 1886 1:2,500	036_09 1888 1:2,500
035_16 1888 1:2,500	036_13 1888 1:2,500

Historical Map - Segment A13

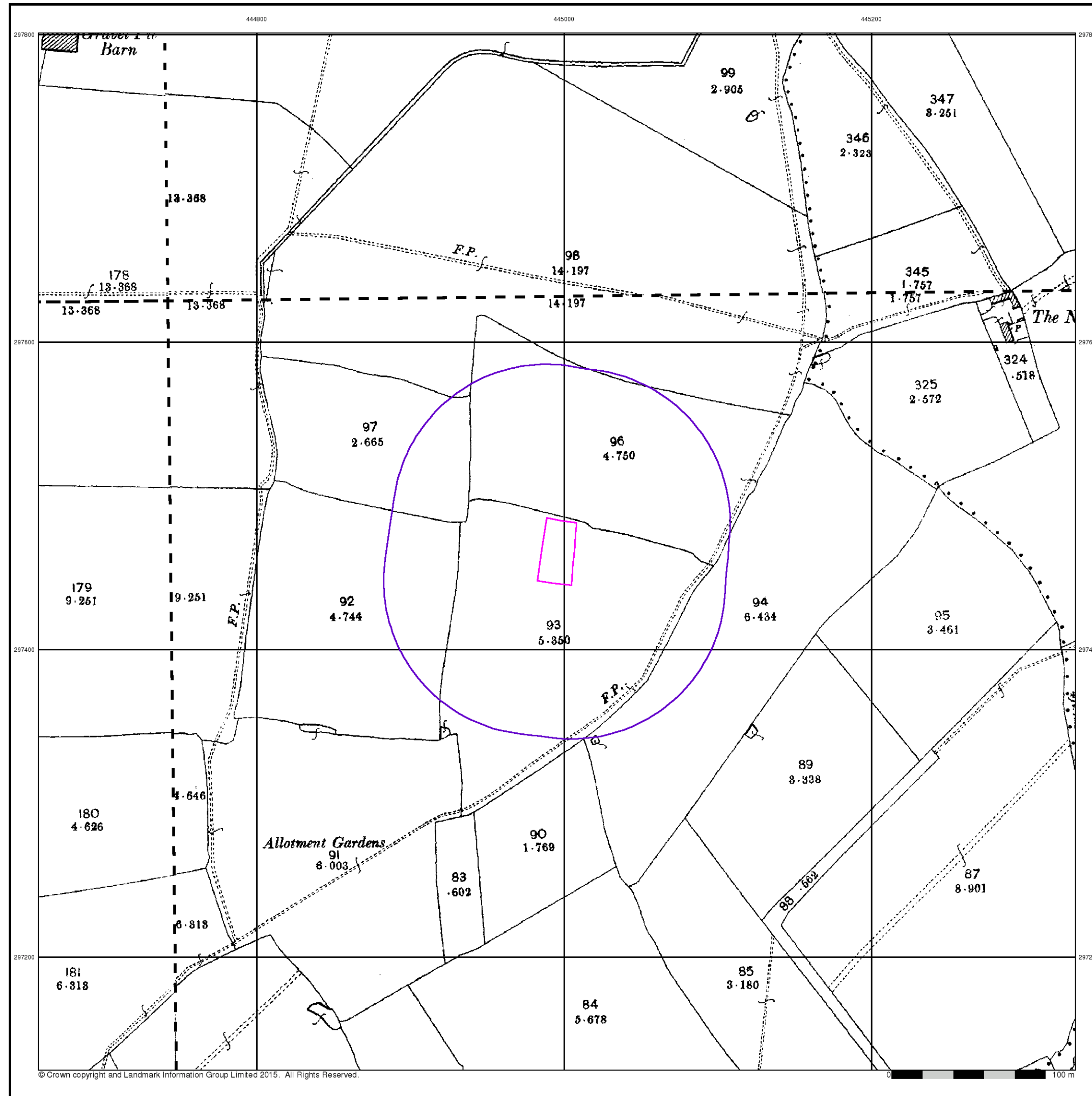


Order Details

Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



Leicestershire

Published 1903

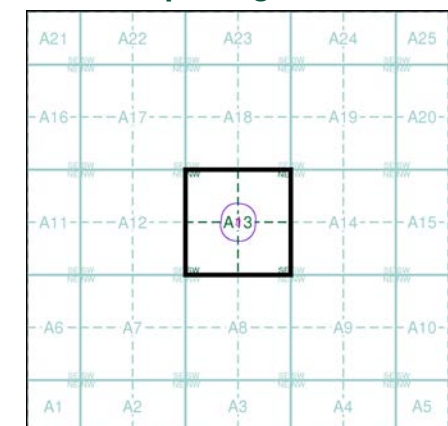
Source map scale - 1:2,500

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)

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035_16 1903 1:2,500	036_13 1903 1:2,500

Historical Map - Segment A13

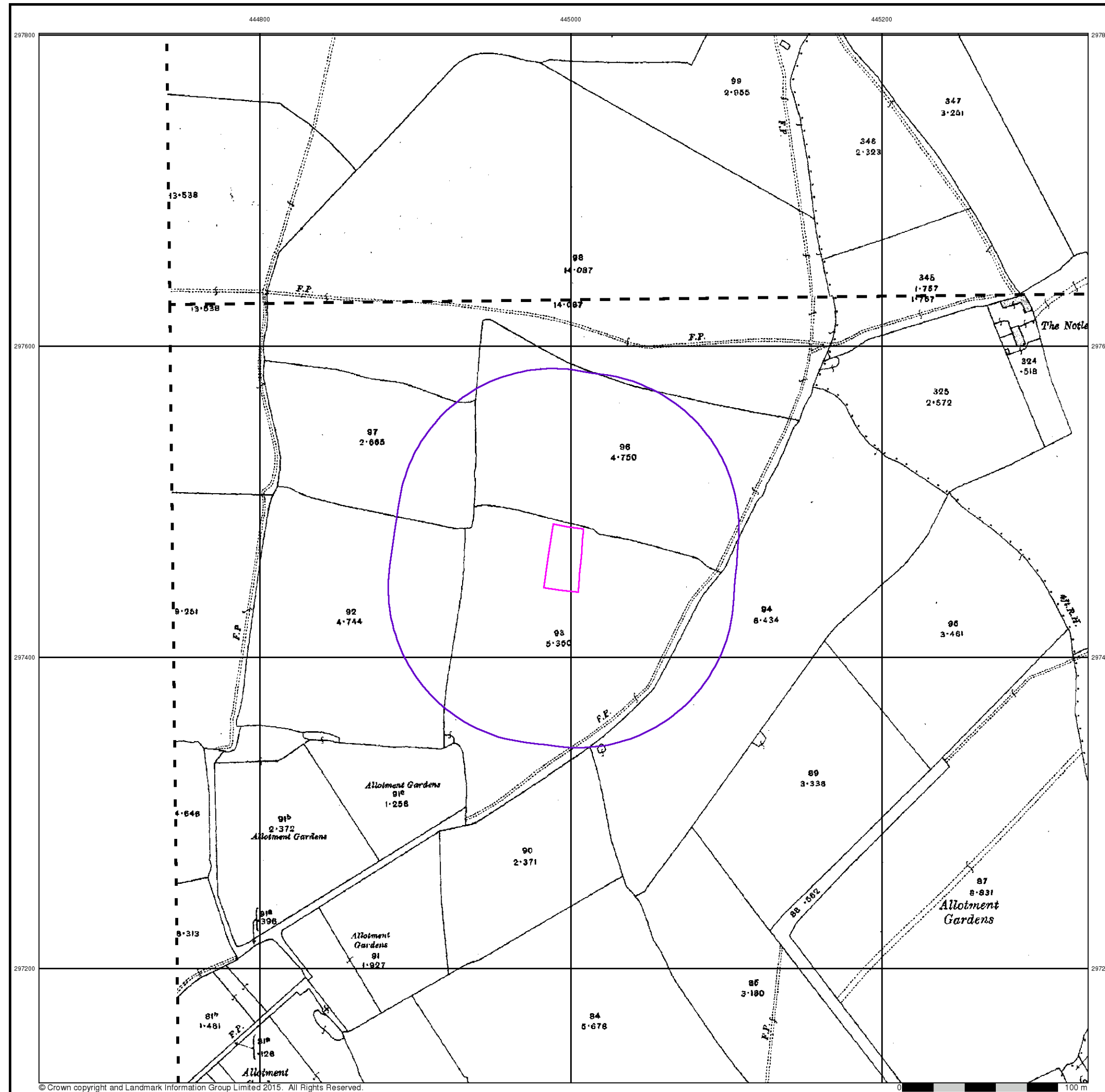


Order Details

Order Number: 110376286_1_1
 Customer Ref: 17005
 National Grid Reference: 445000, 297460
 Slice: A
 Site Area (Ha): 0.09
 Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



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Leicestershire

Published 1916

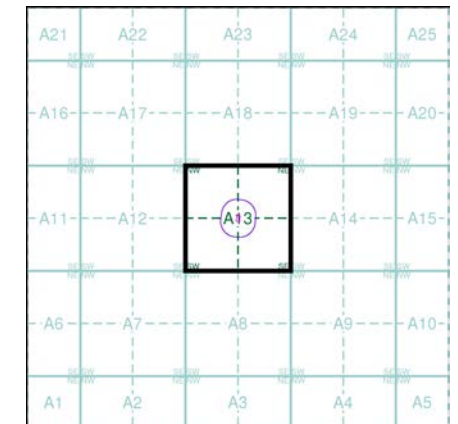
Source map scale - 1:2,500

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)

036_09	1916	1:2,500
036_13	1916	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

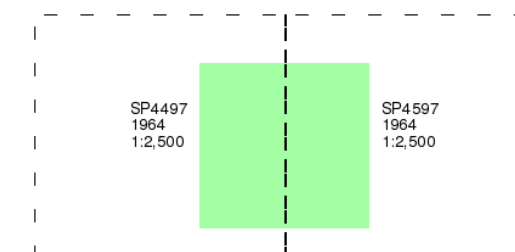
Ordnance Survey Plan

Published 1964

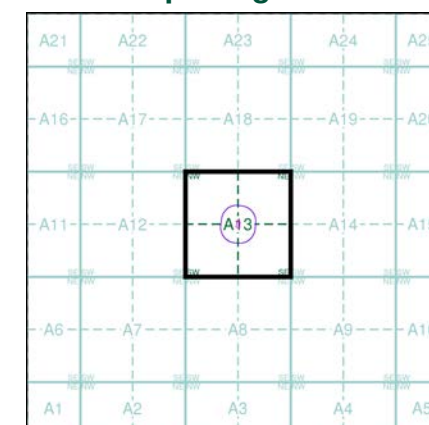
Source map scale - 1:2,500

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

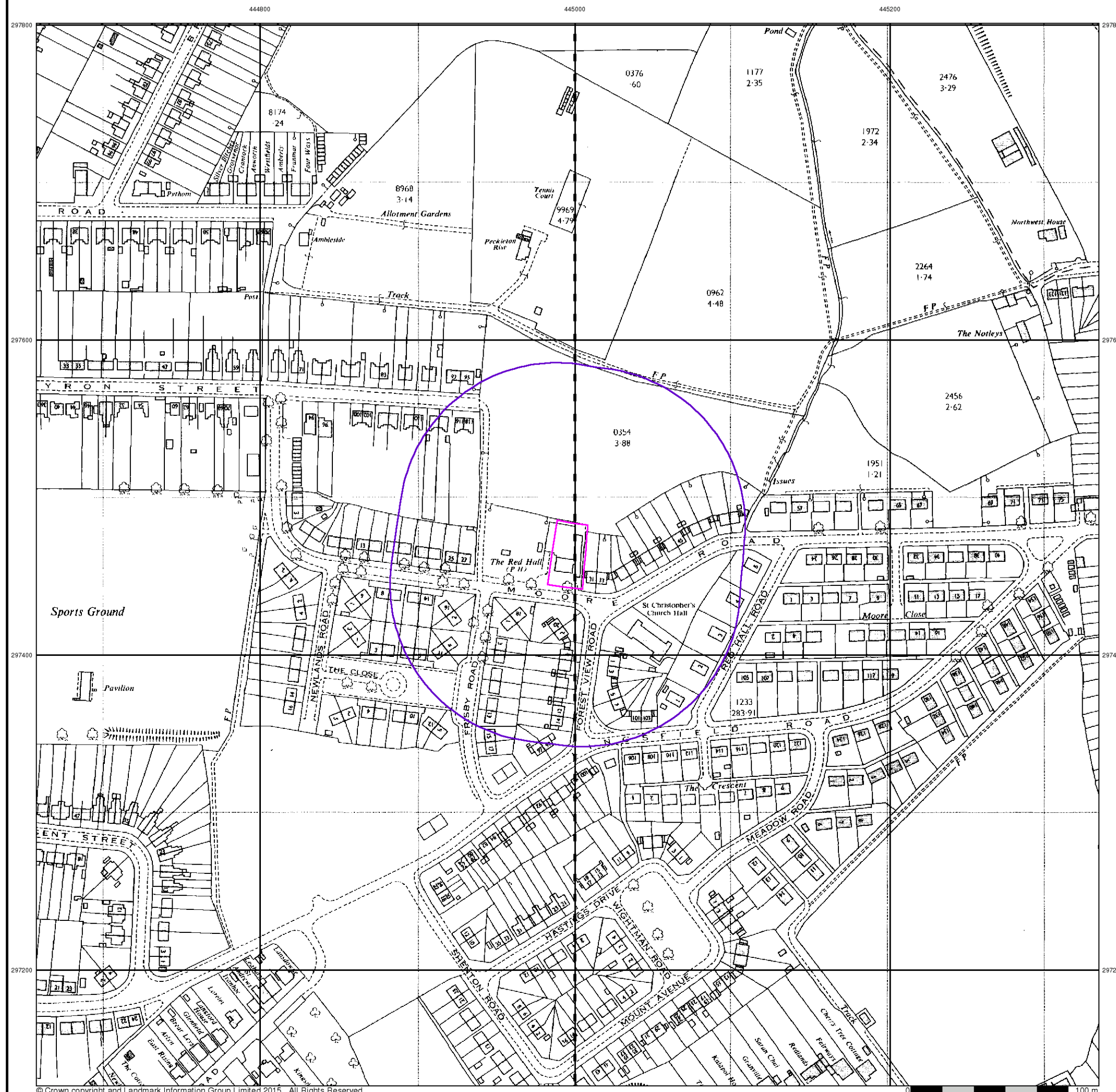


Order Details

Order Number: 110376286_1_1
 Customer Ref: 17005
 National Grid Reference: 445000, 297460
 Slice: A
 Site Area (Ha): 0.09
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Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



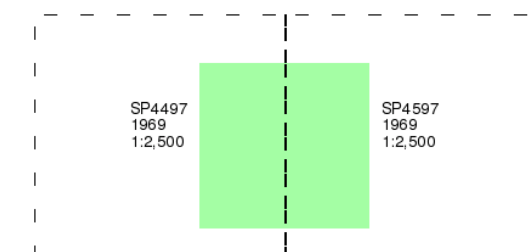
Ordnance Survey Plan

Published 1969

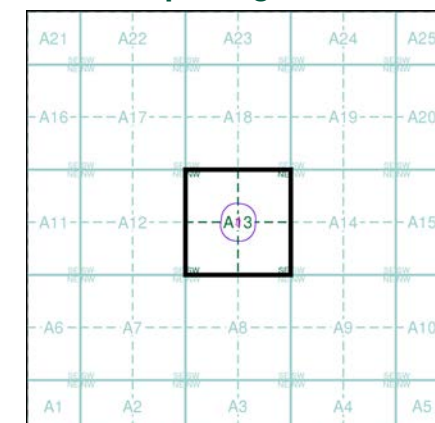
Source map scale - 1:2,500

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

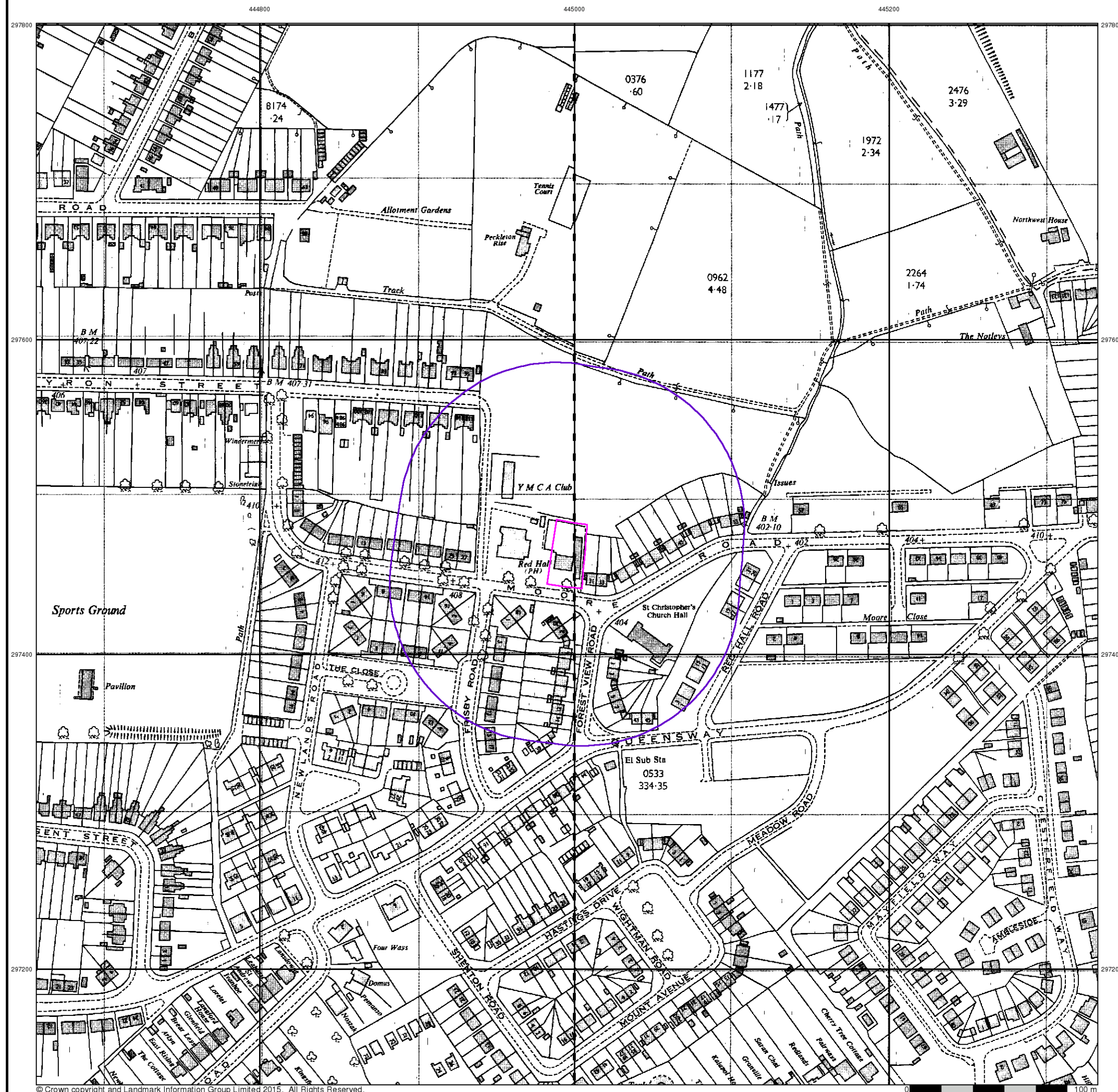


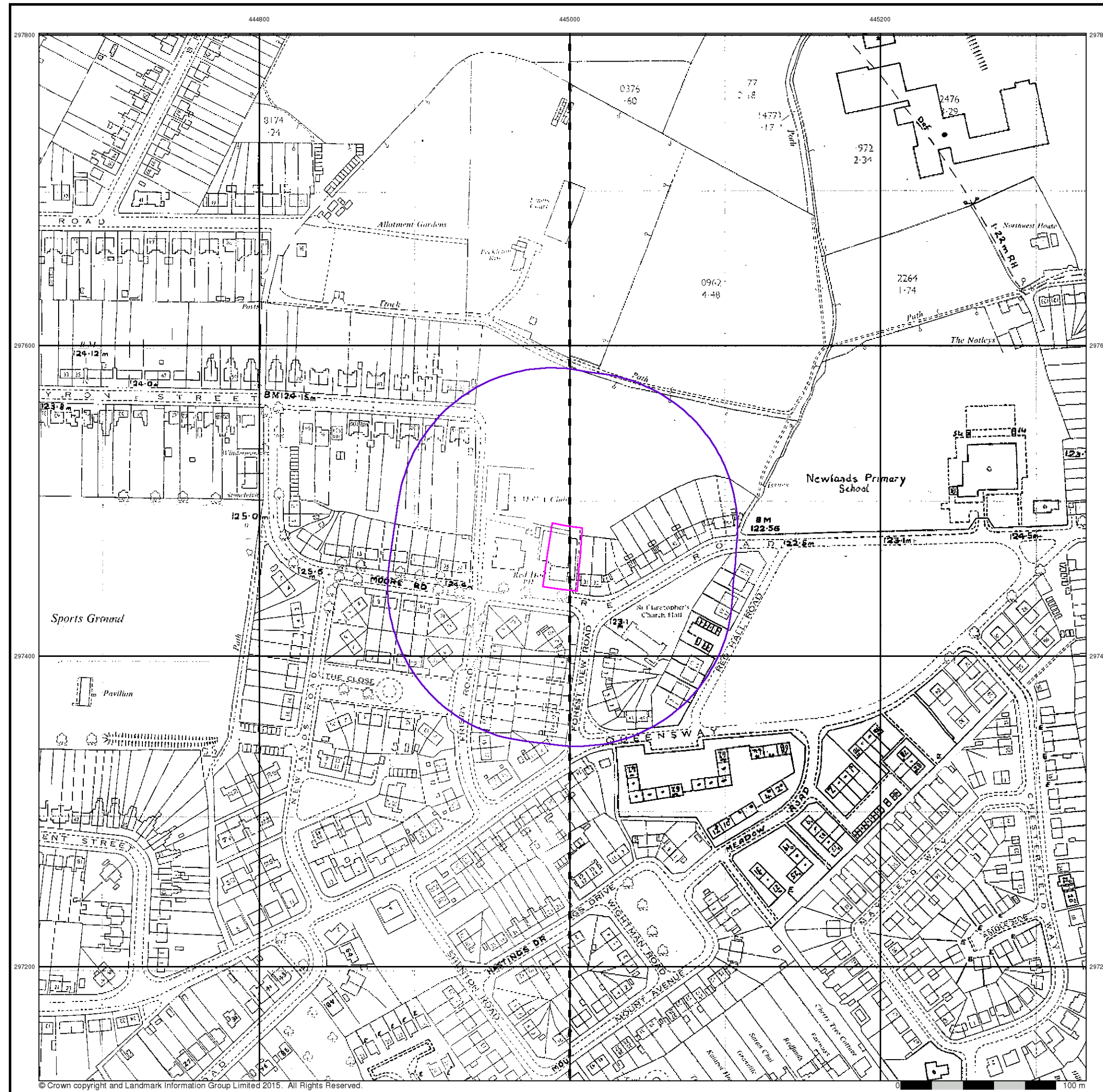
Order Details

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Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

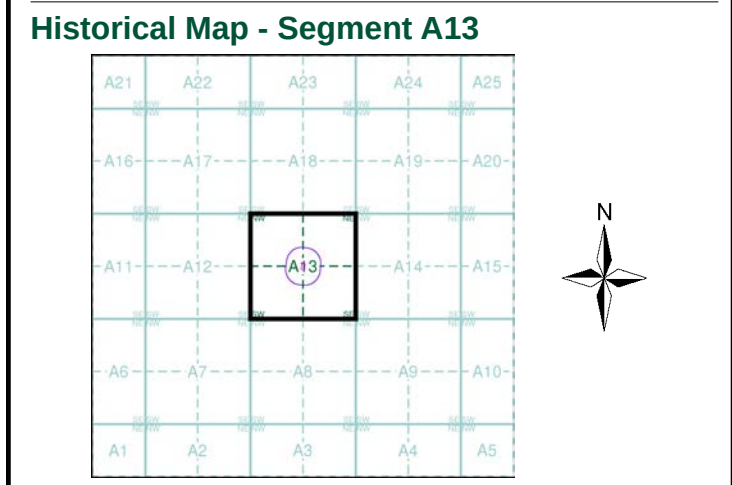
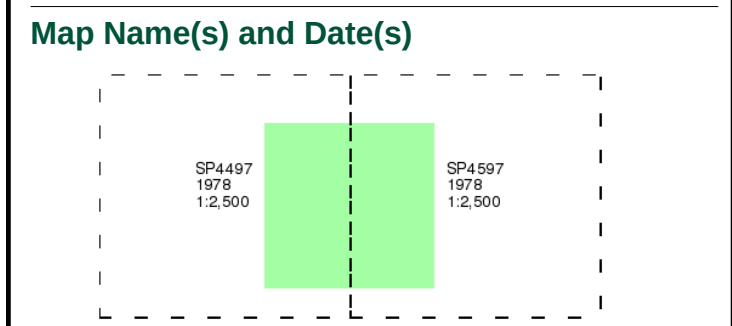




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Additional SIMs
Published 1978
Source map scale - 1:2,500

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.

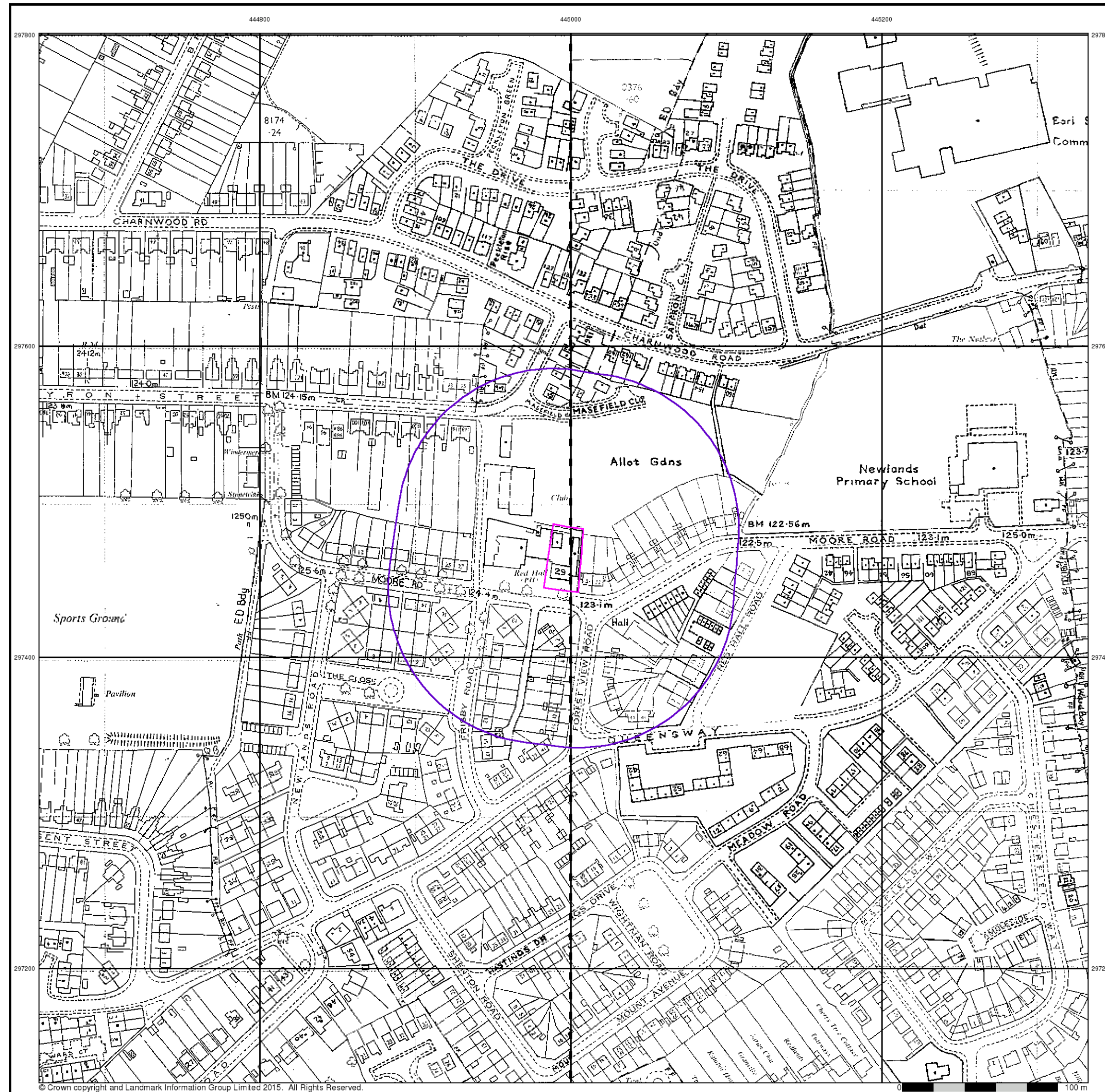


Order Details

Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



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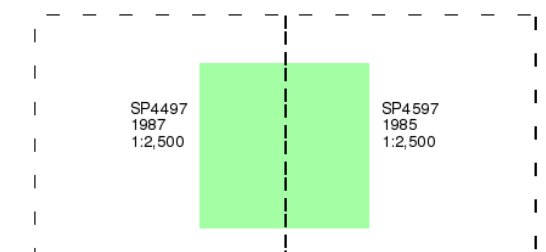
Additional SIMs

Published 1985 - 1987

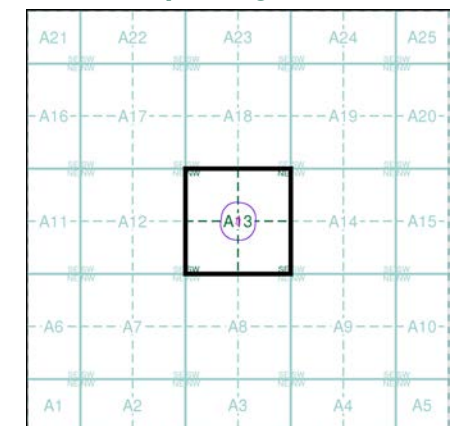
Source map scale - 1:2,500

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

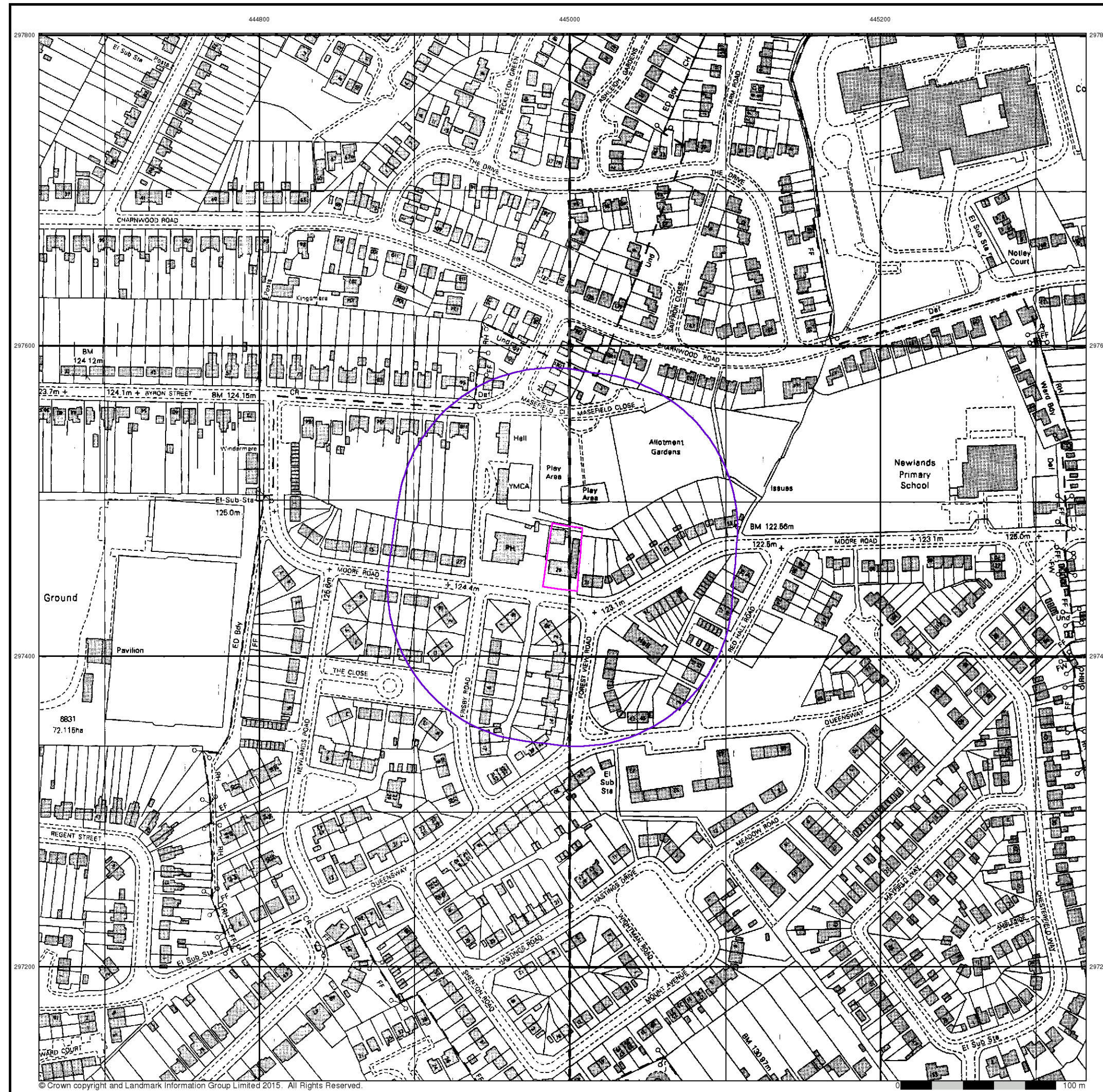


Order Details

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Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



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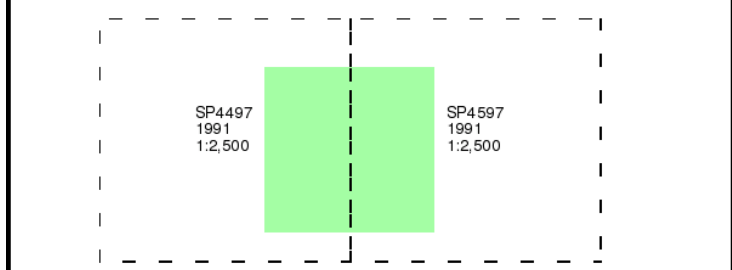
Ordnance Survey Plan

Published 1991

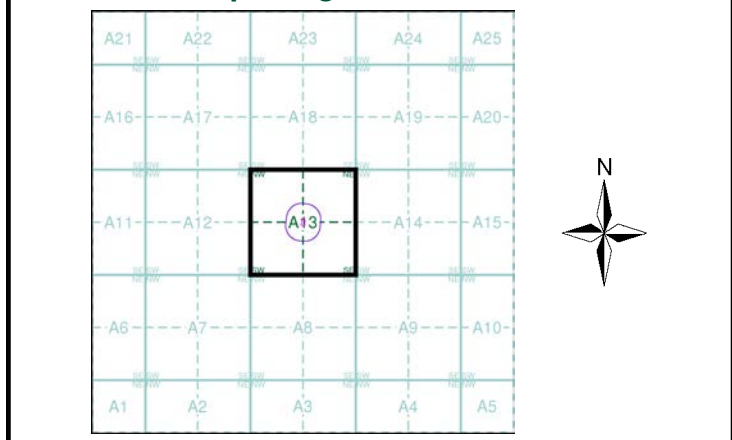
Source map scale - 1:2,500

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: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

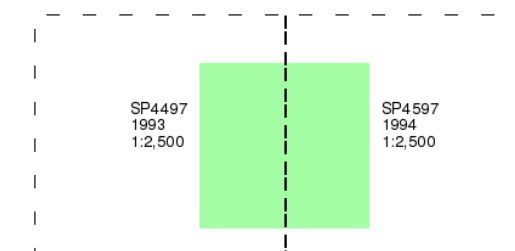
Large-Scale National Grid Data

Published 1993 - 1994

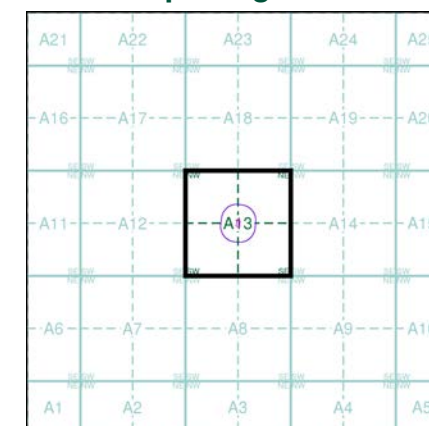
Source map scale - 1:2,500

'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

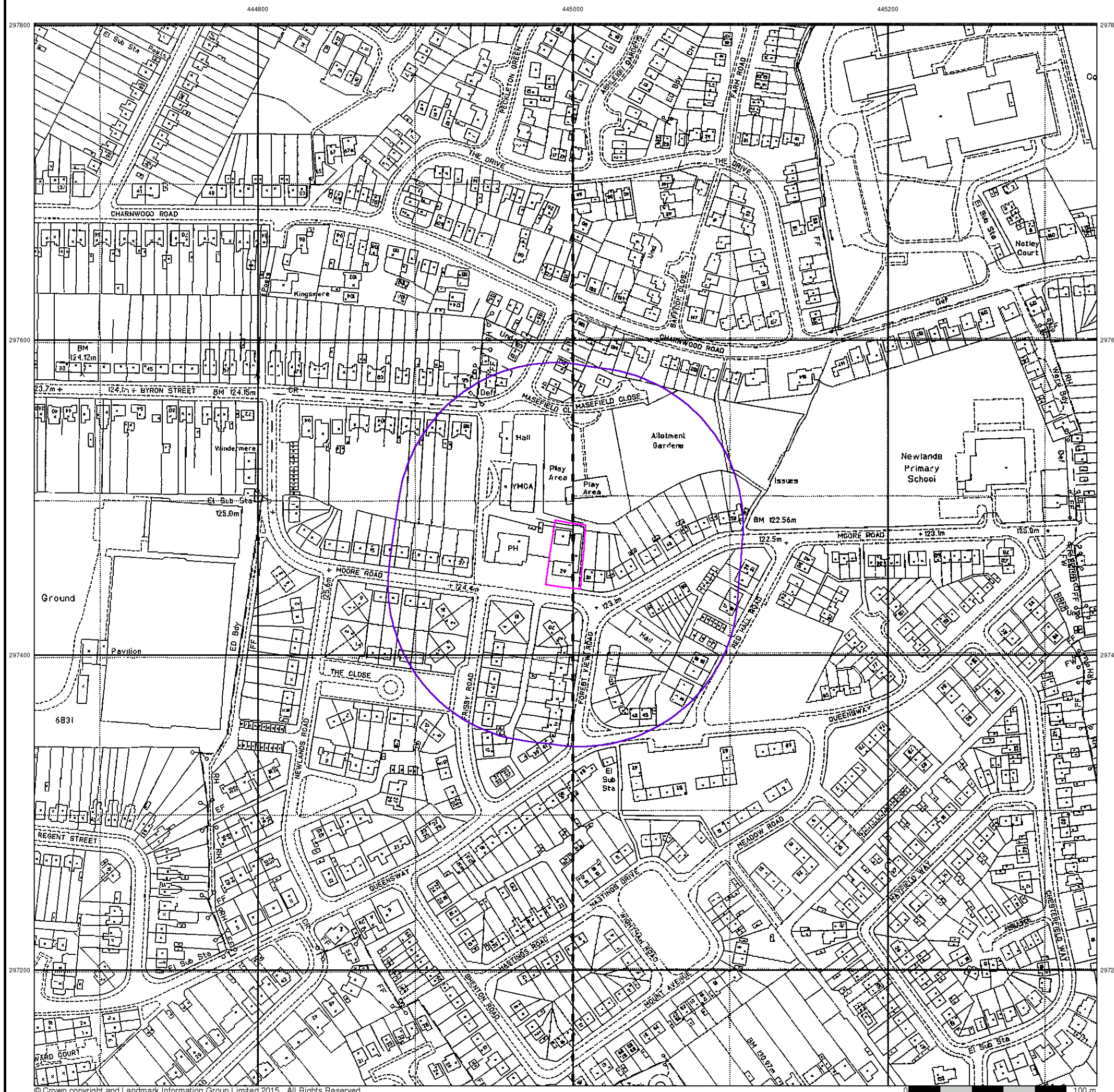


Order Details

Order Number: 110376286_1_1
 Customer Ref: 17005
 National Grid Reference: 445000, 297460
 Slice: A
 Site Area (Ha): 0.09
 Search Buffer (m): 100

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

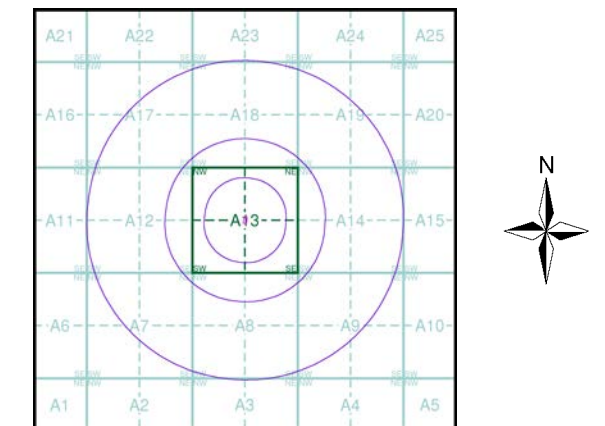
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Leicestershire	1:10,560	1887	2
Leicestershire	1:10,560	1904	3
Leicestershire	1:10,560	1919 - 1931	4
Leicestershire	1:10,560	1938	5
Historical Aerial Photography	1:10,560	1950	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1967 - 1968	8
Ordnance Survey Plan	1:10,000	1980	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2016	12

Historical Map - Slice A

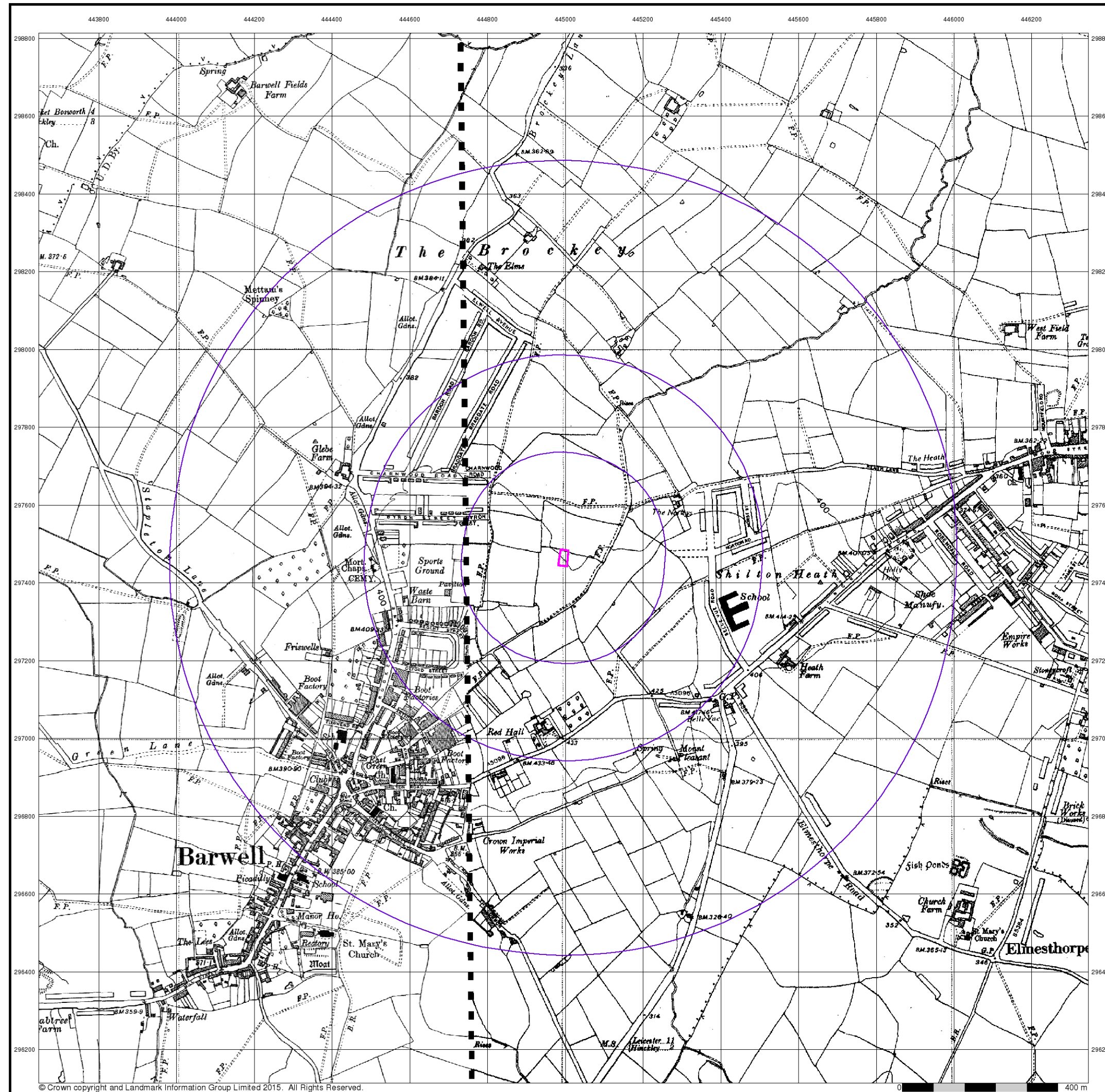


Order Details

Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 1000

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF



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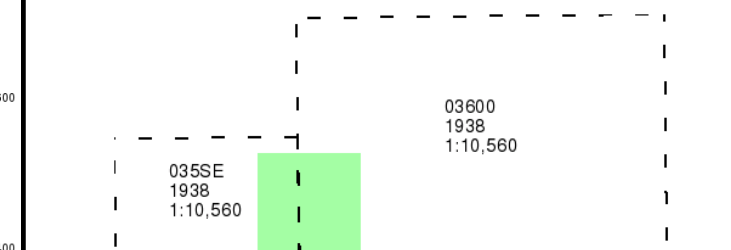
Leicestershire

Published 1938

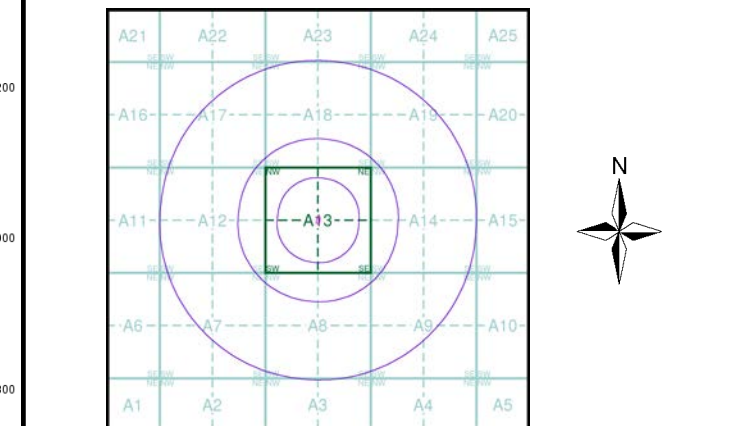
Source map scale - 1:10,560

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

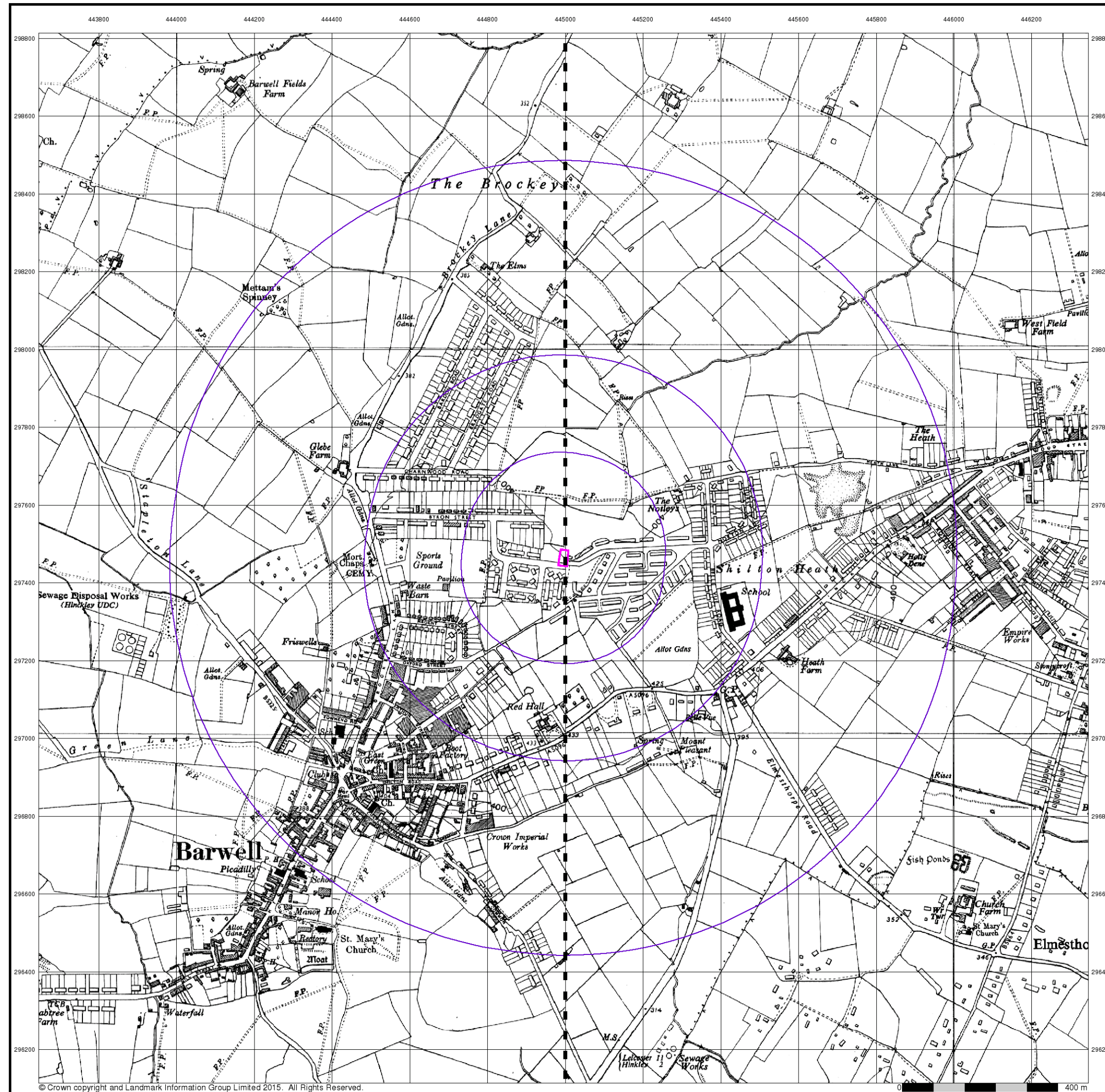
Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 1000

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

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Fax: 0844 844 9951
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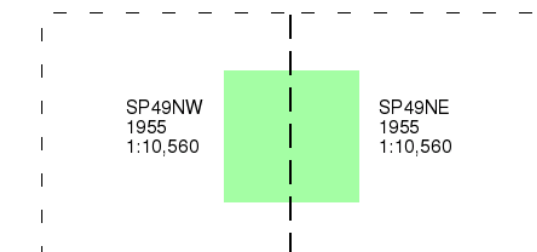
Ordnance Survey Plan

Published 1955

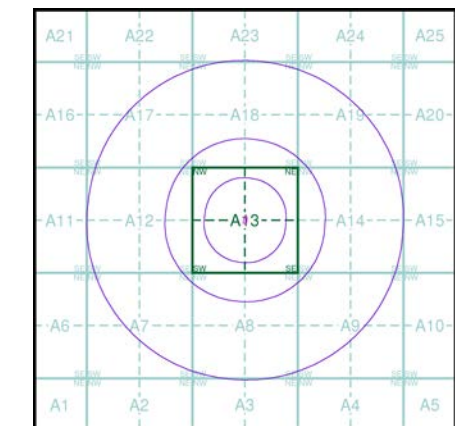
Source map scale - 1:10,000

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: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 1000

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

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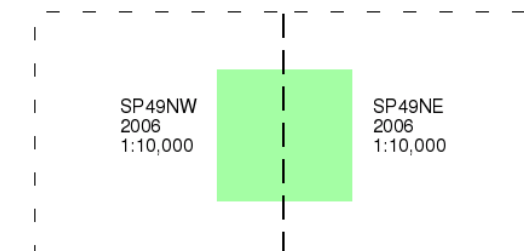
10k Raster Mapping

Published 2006

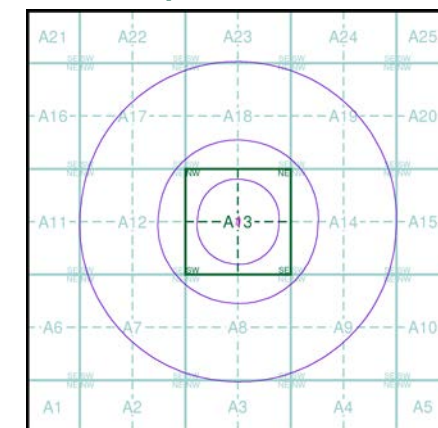
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 110376286_1_1
Customer Ref: 17005
National Grid Reference: 445000, 297460
Slice: A
Site Area (Ha): 0.09
Search Buffer (m): 1000

Site Details

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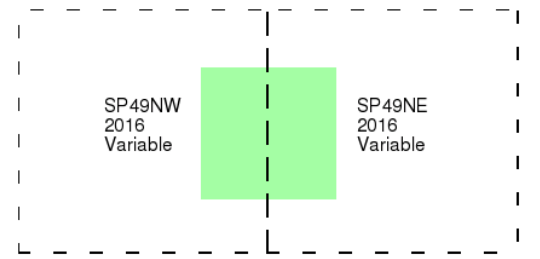
VectorMap Local

Published 2016

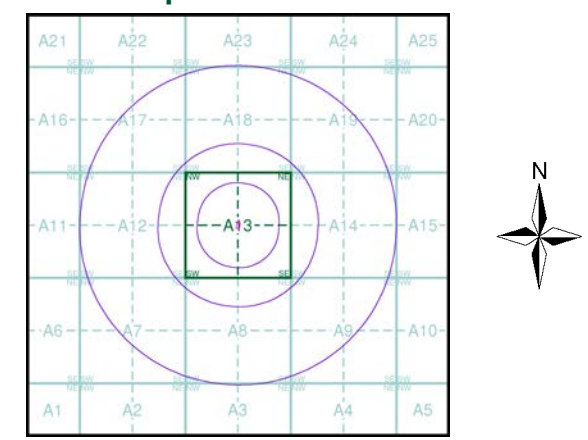
Source map scale - 1:10,000

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



Order Details

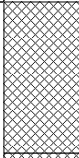
Order Number:	110376286_1_1
Customer Ref:	17005
National Grid Reference:	445000, 297460
Slice:	A
Site Area (Ha):	0.09
Search Buffer (m):	1000

Site Details

Land adjacent to 31 Moore Road, Barwell, LEICESTER, LE9 8AF

APPENDIX C
EXPLORATORY HOLE RECORDS

Project Name Moore Road, Barwell	Project No. 17005	Co-ords: -	Hole Type WLS
Equipment: Dynamic Percussive Sampling Rig		Level: -	Scale 1:25
Client: MDB Steel		Dates: 16-01-2017	Logged By ERW

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.60	D1		0.50			MADE GROUND: Brown and grey slightly clayey gravelly sand. Gravel is brick, concrete, quartzite and coal. Rare wood.	
					0.75			MADE GROUND: Black slightly sandy gravel of coal, ash and clinker.	
		1.00	CPT	N=8 (1,1/2,2,2,2)	1.00			MADE GROUND: Soft to firm brown and grey slightly gravelly very sandy clay. Gravel is quartzite. Rare coal.	1
					1.40			MADE GROUND: Firm orange brown mottled grey sandy gravelly clay. Gravel is flint and chert.	
					1.70			Soft to firm grey very sandy slightly gravelly CLAY. Gravel is quartzite. Organic odour.	
		1.85	D2					(BURIED TOPSOIL)	
		2.00	CPT	N=10 (2,2/2,2,3,3)				Stiff brown mottled grey slightly sandy gravelly CLAY. Gravel is flint, chert, quartzite and sandstone.	2
								(OADBY TILL MEMBER)	
		2.60	D3						
		3.00	CPT	N=25 (3,5/5,6,7,7)	2.90			Stiff reddish brown sandy gravelly CLAY. Gravel is quartzite, coal and sandstone. Rare chert.	3
								(OADBY TILL MEMBER)	
		4.00	CPT	N=25 (3,5/5,6,7,7)					4
					4.30			Stiff grey slightly sandy gravelly CLAY. Gravel is chert, flint and sandstone.	
					4.65			Stiff reddish brown slightly gravelly sandy locally very sandy CLAY. Gravel is chert and sandstone.	
								(OADBY TILL MEMBER)	
		5.00	CPT Type	N=24 (3,5/5,5,6,8) Results	5.00			End of Borehole at 5.00 m	

Remarks: Groundwater encountered at 4.8 m begl during drilling.

Borehole backfilled with arisings upon completion.









Project Name

Moore Road, Barwell

Project No.

17005

Co-ords: -

Hole Type

WLS

Equipment: Dynamic Percussive Sampling Rig

Level: -

Scale

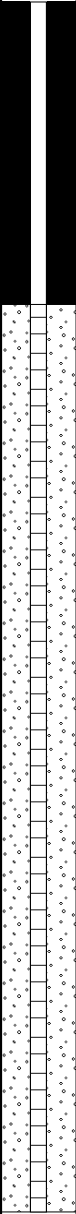
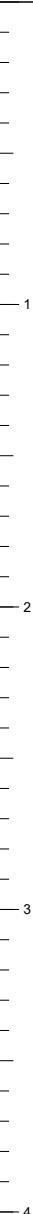
1:25

Client: MDB Steel

Dates: 16-01-2017

Logged By

ERW

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	D1		0.15			MADE GROUND: Black cobble of basalt.	
					0.35			MADE GROUND: Brown and grey sandy gravel and cobbles of brick, concrete, coal and quartzite.	
								MADE GROUND: Firm brown and grey slightly gravelly locally gravelly sandy clay. Gravel is quartzite, coal and brick. Rare ash and clinker.	
		1.00	CPT	N=9 (2,2/2,2,2,3)	1.10			MADE GROUND: Firm grey and brown slightly gravelly sandy clay. Gravel is quartzite, brick and coal. Organic odour.	
					1.40			Soft to firm grey very sandy CLAY. Organic odour.	
					1.60			(BURIED TOPSOIL) Stiff grey mottled reddish brown slightly gravelly sandy locally very sandy CLAY. Gravel is quartzite.	
		2.00	CPT	N=14 (2,2/3,3,4,4)	2.00			(OADBY TILL MEMBER) Stiff grey mottled brown slightly sandy gravelly CLAY. Gravel is chert, flint and sandstone.	
								(OADBY TILL MEMBER)	
					2.75			Stiff reddish brown slightly sandy gravelly CLAY. Gravel is chert, flint, chalk and sandstone.	
		2.90	D3	N=38 (4,6/7,10,10,11)				(OADBY TILL MEMBER)	
		3.00	CPT						
					3.50			Stiff reddish brown slightly gravelly sandy CLAY. Gravel is mudstone, sandstone and chert.	
								(OADBY TILL MEMBER)	
		4.00	CPT	N=32 (4,4/6,7,9,10)	4.00			End of Borehole at 4.00 m	
			Type	Results					

Remarks: Groundwater encountered at 1.0 m begl during drilling.
Gas and groundwater monitoring point installed upon completion.

Project Name

Moore Road, Barwell

Project No.

17005

Co-ords: -

Hole Type

WLS

Equipment: Dynamic Percussive Sampling Rig

Level: -

Scale

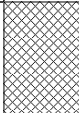
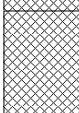
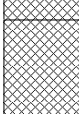
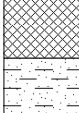
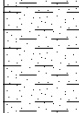
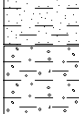
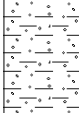
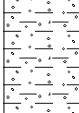
1:25

Client: MDB Steel

Dates: 16-01-2017

Logged By

ERW

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	D1		0.40			MADE GROUND: Brown slightly clayey sandy gravel and cobbles of brick and concrete. Rare ash and clinker. Possible asbestos fragments.	
					0.80			MADE GROUND: Firm to stiff brown mottled grey slightly gravelly sandy locally very sandy clay. Gravel is quartzite and sandstone.	
		1.00	CPT	N=8 (2,2/2,2,2,2)	1.30			MADE GROUND: Loose brown mottled grey slightly gravelly slightly clayey sand. Gravel is quartzite and sandstone.	1
					1.50			Soft to firm grey slightly gravelly sandy CLAY. Gravel is quartzite. Organic odour.	
		1.90	D2		2.00			(BURIED TOPSOIL) Stiff grey mottled brown sandy slightly gravelly CLAY. Gravel is quartzite.	
		2.00	CPT	N=9 (2,2/2,2,2,3)				(OADBY TILL MEMBER)	2
								Stiff grey mottled brown slightly sandy gravelly CLAY. Gravel is chert, flint and sandstone.	
								(OADBY TILL MEMBER)	
		3.00	D3	N=20 (3,3/4,5,5,6)					3
		3.00	CPT						
		4.00	CPT	N=24 (3,4/4,6,7,7)	4.00			End of Borehole at 4.00 m	4
			Type	Results					

Remarks: Groundwater encountered at 2.0 m begl during drilling.

Borehole backfilled with arisings upon completion.





APPENDIX D
SOIL-GAS AND GROUNDWATER MONITORING RESULTS

Soil-Gas and Groundwater Monitoring Results

Monitoring Visit No. 1		Date 25/01/17		Barometric Pressure (mb) - 1010						
Weather Conditions:		Sunny, 3.0°C.								
Surface Ground Conditions:		Damp								
Ambient Concentration (% Volume):					CH ₄ : 0.0		CO ₂ : 0.0		O ₂ : 21.2	
Monitoring Point		Gas Concentration							Gas Flow	
		Highest			Steady			(Lowest) O ₂	Gas Flow Rate	Differential Pressure
		CH ₄		CO ₂	CH ₄		CO ₂			
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂	O ₂		
	(m) bgl	% lel	% v/v	(%)	% lel	% v/v	(%)	(%)	litre/hr	Pa
BH3	0.90	0.0	0.0	0.2	0.0	0.0	0.2	20.5	0.1	-0.12

Monitoring Visit No.		2		Date	08/02/17			Barometric Pressure (mb) -		1018						
Weather Conditions:				Overcast 5°C.												
Surface Ground Conditions:				Wet												
Ambient Concentration (% Volume):					CH ₄ :		0.0		CO ₂ :		0.0		O ₂ :		21.1	
Monitoring Point		Gas Concentration									Gas Flow					
		Highest				Steady			(Lowest)	Gas Flow Rate	Differential Pressure					
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂	O ₂								
	(m) bgl	% lel	% v/v	(%)	% lel	% v/v	(%)	(%)	litre/hr	Pa						
BH3	0.71	0.0	0.0	0.5	0.0	0.0	0.4	19.0	0.1	-0.14						

Monitoring Visit No.		3		Date		22/02/17		Barometric Pressure (mb) -		994							
Weather Conditions:				Dry, overcast, windy, 10°C													
Surface Ground Conditions:				Damp													
Ambient Concentration (% Volume):						CH ₄ :		0.0		CO ₂ :		0.0		O ₂ :		21.1	
Monitoring Point		Gas Concentration										Gas Flow					
		Highest				Steady				(Lowest) O ₂	Gas Flow Rate	Differential Pressure					
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂										
	(m) bgl	% lel	% v/v	(%)	% lel	% v/v	(%)	(%)	litre/hr	Pa							
BH3	0.72	0.0	0.0	0.6	0.0	0.0	0.6	20.8	0.0	-0.16							

Equipment Used: Geotechnical Instruments (GI) and Solinst	Notes
GI - GA2000 Gas Concentration/Atmospheric Pressure GI - GA2000 Borehole Gas Flow Rate/Borehole Pressure Solinst combined dip meter and interface meter - Groundwater Level (GWL)	(m) bgl - metres below ground level

	Job Title:	Job No:
	Client:	Table Number:
	Moore Road, Barwell	17005
	MDB Steel	1

APPENDIX E
CHEMICAL TEST RESULTS

**Emily Webb**

Georisk Management Limited
Summit Point
Summit Crescent
Smethwick
Birmingham
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f: 01215531112
e: emily.webb@georisk-uk.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 17-37664

Replaces Analytical Report Number : 17-37664, issue no. 1

Project / Site name:	Moore Road, Barwell	Samples received on:	19/01/2017
Your job number:	17005	Samples instructed on:	19/01/2017
Your order number:	17005	Analysis completed by:	07/02/2017
Report Issue Number:	2	Report issued on:	07/02/2017
Samples Analysed:	5 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Dr Irma Doyle
Senior Account Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 17-37664

Project / Site name: Moore Road, Barwell

Your Order No: 17005

Lab Sample Number				687835	687836	687837	687838	687839
Sample Reference				BH1	BH3	BH4a	BH1	BH3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.60	0.40	0.20	2.60	1.50
Date Sampled				16/01/2017	16/01/2017	16/01/2017	16/01/2017	16/01/2017
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	3.6	13	9.5	16	13
Total mass of sample received	kg	0.001	NONE	0.89	1.3	1.2	0.56	0.69

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Chrysotile	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	0.256	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	0.256	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.0	8.6	7.9	6.8
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.050	0.050	0.14	0.019	0.057

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
----------------------------	-------	---	--------	-------	-------	-------	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.9	7.3	6.3	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	1.4	1.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8.3	17	18	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	22	28	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.3	12	25	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	18	18	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	53	68	-	-



Analytical Report Number: 17-37664
Project / Site name: Moore Road, Barwell
Your Order No: 17005

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
687837	BH4a	0.20	129	Hard/Cement Type Material	Chrysotile	0.256	0.256

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Analytical Report Number : 17-37664

Project / Site name: Moore Road, Barwell

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
687835	BH1	None Supplied	0.60	Black gravelly loam.
687836	BH3	None Supplied	0.40	Brown loam and clay with gravel.
687837	BH4a	None Supplied	0.20	Brown loam and clay with gravel.
687838	BH1	None Supplied	2.60	Brown clay and sand.
687839	BH3	None Supplied	1.50	Brown clay and sand.

Analytical Report Number : 17-37664

Project / Site name: Moore Road, Barwell

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in ouse method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX F
GEOTECHNICAL TEST RESULTS

Liquid and Plastic Limits and Plasticity Indices

Report No: DAM0065551/048/M1 **Report Date:** 24 January 2017

Client: GEORISK MANAGEMENT
Address: SUIT F3 SUMMIT POINT
SUMMIT CRESCENT IND ESTATE
SMETHWICK
WEST MIDLANDS
B66 1BT
Client Contact: Emily Webb
Site: 17005 - Moore Road, Barwell

Our Contract Ref: 51030101
Tested By: ESG Daventry

Date Sampled: Not given
Date Received: 19 Jan 2017
Date Tested: 23 Jan 2017

Material Supplier: Client
Material Source: Site
Method of preparation: BS1377-1:1990 7.4.3

Sample Type: BULK BAG
Sampling Certificate: Not Received
Samples Submitted by: ESG Daventry Laboratory
Sampled by: Client

Results:

Sample Reference	Client's Ref	Location	Description	Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Passing on 425 µm
45307046	1	BH1 1.85	Brown grey sandy CLAY	26	55	20	35	100
45307047	2	BH3 3.60	Brown sandy CLAY with occasional Gravel	21	41	18	23	97
45307048	3	BH4A 3.00	Brown sandy CLAY	19	41	19	22	100

As Received, Coarse particles removed by hand prior to test
*** Washed over 425µm BS Test Sieve**

Certified that the Liquid and Plastic Limits and Plasticity Indices were determined in accordance with BS1377-2: 1990
Clauses 4.4, 5.0 and 5.4 respectively
Certified that the Moisture Content was determined in accordance with BS1377-2: 1990: 3.2
Method of Preparation: BS 1377-1:1990 7.4.3 & BS1377-2:1990 4.2.3/4.2.4

Signed:



Maria Carr - Section Manager

for and on behalf of Environmental Scientifics Group Limited

APPENDIX G
ENVIROCHECK SUPPORTING INFORMATION

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

110376286_1_1

Customer Reference:

17005

National Grid Reference:

445000, 297460

Slice:

A

Site Area (Ha):

0.09

Search Buffer (m):

1000

Site Details:

Land adjacent to 31 Moore Road
Barwell
LEICESTER
LE9 8AF

Client Details:

Mr M Gill
Georisk Management Limited
Summit Point
Summit Crescent Industrial Estate
Smethwick
Birmingham
B66 1BT

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	7
Hazardous Substances	-
Geological	10
Industrial Land Use	14
Sensitive Land Use	34
Data Currency	35
Data Suppliers	41
Useful Contacts	42

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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2			1	3
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				1 (*6)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 5	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
Detailed River Network Lines	pg 5		Yes	Yes	n/a
Detailed River Network Offline Drainage					n/a

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 7			2	3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 8	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 8			2	3
Potentially Infilled Land (Non-Water)	pg 8				2
Potentially Infilled Land (Water)	pg 8		4	4	3
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 10	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 10	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 13		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	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 14		2	13	120
Fuel Station Entries	pg 25			1	1
Points of Interest - Commercial Services	pg 25			7	33
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 29			1	45
Points of Interest - Public Infrastructure	pg 33			2	2
Points of Interest - Recreational and Environmental	pg 33		1	2	2
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
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 34	1	1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	103	2	445050 297350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	142	2	445150 297463
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	158	2	445150 297550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	193	2	444996 297250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	204	2	445200 297550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	269	2	445250 297600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	290	2	445200 297700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	315	2	445000 297800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	321	2	445050 297800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	337	2	445300 297650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	379	2	445100 297850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	415	2	445200 297850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	428	2	445100 297900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	438	2	445200 297050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	441	2	445150 297900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	489	2	445150 297950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	492	2	444500 297350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	492	2	444996 296950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Mr Roy Findlay Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: An Stp Serving Naivasha New Barn Farm, Kirkby Road, Barwell, Leicestershire, Le9 8ft Authority: Environment Agency, Midlands Region Catchment Area: Upper Soar Catchment To Confluence With Sence Reference: T/50/46252/S Permit Version: 1 Effective Date: 7th April 2006 Issued Date: 7th April 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Thurlaston Bk 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)	872	3	444880 298350
2	Discharge Consents Operator: Severn Trent Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Stapleton Lane Sws, Barwell, Leicestershire Authority: Environment Agency, Midlands Region Catchment Area: River Sence Catchment Reference: T/20/03755/O Permit Version: 1 Effective Date: 27th October 1979 Issued Date: 27th October 1979 Revocation Date: 27th March 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Sibson Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A12SW (W)	994	3	444000 297300
3	Local Authority Pollution Prevention and Controls Name: Cwp Coatings Ltd Location: Units 8-9 Kingfield Road, Barwell, . Authority: Hinckley And Bosworth Borough Council, Environmental Health Department Permit Reference: Epa23 Dated: 22nd December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Not Supplied Positional Accuracy: Manually positioned to the address or location	A8NW (SW)	486	4	444681 297064
4	Local Authority Pollution Prevention and Controls Name: Djs Automotive Ltd Location: The Garage, Rossendale Road, Earl Shilton, Leicester, LE9 7LX Authority: Hinckley And Bosworth Borough Council, Environmental Health Department Permit Reference: EPR-12 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A14NE (E)	944	4	445951 297508
	Nearest Surface Water Feature	A13NE (E)	120	-	445124 297511
5	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Other Location: 22 Maple Way, EARL SHILTON Authority: Environment Agency, Midlands Region Pollutant: Oils - Waste Oil Note: No Adverse Effects; Engine Oil To Drain Incident Date: 2nd April 1997 Incident Reference: 2802266 Catchment Area: Trent Catchment : Upper Soar To Confluence With Sence Receiving Water: Watercourse Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A14SW (SE)	464	3	445400 297200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Fire Water Location: Melton Street, EARL SHILTON Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Urban Runoff Note: Other Affected; 3 Jets In Use At Builders Yard Incident Date: 16th July 1998 Incident Reference: 2804810 Catchment Area: Trent Catchment : Upper Soar To Confluence With Sence Receiving Water: Watercourse Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A14SE (E)	710	3	445700 297300
7	Pollution Incidents to Controlled Waters Property Type: Road (Road Traffic Accident) Location: The Barracks, BARWELL Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: None Affected; Diesel Spilt To Drains 10 Days Ago Incident Date: 1st October 1998 Incident Reference: 2704847 Catchment Area: Trent Catchment : River Sence Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	906	3	444300 296850
8	Pollution Incidents to Controlled Waters Property Type: Construction Location: 35 The Common, Barwell, LEICESTER, Leicestershire, LE9 Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Unknown Watercourse; Ditch & Pool Contaminated - Smell Of Diesel; Fish Killed; Incident Date: 22nd September 1999 Incident Reference: 2706242 Catchment Area: Trent Catchment : Upper Anker To Confluence With Sence Receiving Water: Pond/Lake Cause of Incident: Poor Operational Practice Incident Severity: Category 2 - Significant Incident Positional Accuracy: Approximate location provided by supplier	A8SW (S)	948	3	444900 296500
9	Water Abstractions Operator: Mr S Jackson Licence Number: 03/28/50/0095 Permit Version: 100 Location: Marune Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Marune Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	919	3	445900 297700
	Water Abstractions Operator: Mr W A Bowley Licence Number: 03/28/50/0092 Permit Version: 100 Location: Westfield Farm - Spring Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westfield Farm Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	1343	3	446200 298100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr C T Pickering Licence Number: 03/28/50/0033 Permit Version: 100 Location: Barwell Fields Farm - Well (1) Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barwell Fields Farm Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SW (NW)	1435	3	444150 298650
	Water Abstractions Operator: Hinckley United Football Club Limited Licence Number: 03/28/50/0140 Permit Version: 2 Location: Hinckley Utd Fc-Borehole Authority: Environment Agency, Midlands Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hinckley Utd Fc - Borehole Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1543	3	444950 295900
	Water Abstractions Operator: Hinckley United Football Club Limited Licence Number: 03/28/50/0140 Permit Version: 1 Location: Hinckley Utd Fc-Borehole Authority: Environment Agency, Midlands Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hinckley Utd Fc - Borehole Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 24th January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1543	3	444950 295900
	Water Abstractions Operator: Mr C T Pickering Licence Number: 03/28/50/0033 Permit Version: 100 Location: Barwell Fields Farm - Well (2) Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barwell Fields Farm Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SW (NW)	1554	3	444100 298760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr R E Sercombe Licence Number: 03/28/50/0042 Permit Version: 100 Location: Hill Top Farm Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hill Top Farm Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1931	3	446800 298200
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A13SE (NW)	0	3	444996 297463
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (NW)	0	2	444996 297463
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (E)	0	2	445000 297463
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (E)	0	2	445000 297463
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (NW)	0	2	444996 297463
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
10	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (E)	120	3	445124 297511
11	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (NE)	379	3	445157 297830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (NE)	379	3	445157 297830
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Historical Landfill Sites Licence Holder: Not Supplied Location: Land North of Heath Lane, Earl Shinton, Leicestershire Name: Earl Shilton College Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD28328 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 41	A13NE (NE)	358	3	445321 297655
14	Historical Landfill Sites Licence Holder: Not Supplied Location: Bardon Road, Barwell, Leicestershire Name: Barwell Landfill Site B Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD23269 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2400/1244 BGS Ref: Not Supplied Other Ref: 270, GDO 222	A13NW (NW)	447	3	444670 297799
15	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Heath Lane, East Shilton, Leicestershire Name: Off Heath Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD28334 First Input Date: 31st December 1965 Last Input Date: 31st December 1975 Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2400/1236 BGS Ref: Not Supplied Other Ref: GDO 42	A14NW (E)	611	3	445600 297633
16	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Heath Lane South, Earl Shilton, Leicestershire Name: Off Heath Lane South Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD28337 First Input Date: 31st December 1958 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2400/1237 BGS Ref: Not Supplied Other Ref: GDO 43	A14NW (E)	665	3	445669 297546
17	Historical Landfill Sites Licence Holder: Leicestershire County Council Location: Barwell Tip, Stapleton Lane, Hinkley, Leicestershire Name: Barwell Landfill Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD23270 First Input Date: 31st December 1950 Last Input Date: 31st December 1970 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2400/1209 BGS Ref: 1196 Other Ref: GDO 40, 0016	A12SW (W)	954	3	444035 297333

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Leicestershire County Council - Has supplied landfill data		0	5	444996 297463
	Local Authority Landfill Coverage Name: Hinckley And Bosworth Borough Council - Has no landfill data to supply		0	4	444996 297463
	Local Authority Landfill Coverage Name: Blaby District Council - Has no landfill data to supply		952	6	445561 296670
18	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 41 Authority: Leicestershire County Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A13NE (NE)	356	5	445316 297660
19	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: Not Supplied Authority: Leicestershire County Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Unknown Boundary Quality: Not Applicable	A17SE (NW)	472	5	444655 297819
20	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 42 Authority: Leicestershire County Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A14NW (E)	607	5	445595 297636
21	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 43 Authority: Leicestershire County Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A14NW (E)	664	5	445669 297546
22	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 40 Authority: Leicestershire County Council Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A12SW (W)	954	5	444034 297344
23	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1980	A14NW (E)	632	-	445613 297667
24	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1980	A14NE (E)	688	-	445694 297522
25	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A13SE (S)	105	-	445019 297339

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A13SW (SW)	121	-	444918 297343
27	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A13SE (SE)	149	-	445117 297346
28	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A13SW (SW)	178	-	444834 297346
29	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A13NE (NE)	286	-	445119 297746
30	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (SW)	311	-	444850 297164
31	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	339	-	444905 297115
32	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A14SW (SE)	485	-	445415 297185
33	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1904	A14SW (SE)	630	-	445577 297180
34	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9NW (SE)	689	-	445486 296949
35	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A17NE (NW)	816	-	444564 298182

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	2	444996 297463
	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 (NW)	0	2	444996 297463
	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 (E)	0	2	445000 297463
	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	A13SE (SE)	155	2	445074 297304
	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 (NE)	211	2	445162 297626
	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 (SE)	282	2	445155 297204
	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	A13NW (N)	315	2	444995 297800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	370	2	445194 297802
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	372	2	445000 297857
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A8NE (S)	482	2	445000 296960
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 20 - 40 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A12SE (W)	511	2	444489 297317
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (E)	518	2	445520 297557
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	632	2	444392 297222

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 20 - 40 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A17SE (NW)	647	2	444427 297805
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	686	2	445600 297101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 20 - 40 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A12NW (W)	759	2	444235 297572
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NE (NW)	807	2	444560 298169
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	921	2	445710 298078
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	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 (E)	0	2	445000 297463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	445000 297463
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	211	2	445151 297637
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	445000 297463
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	445000 297463
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	445000 297463
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	211	2	445151 297637
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	444996 297463
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	445000 297463
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	134	2	445073 297327
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	164	2	445000 297279
	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	2	444996 297463
	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 (E)	0	2	445000 297463
	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	2	444996 297463
	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 (E)	0	2	445000 297463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Contemporary Trade Directory Entries Name: Radio 66 Location: 14, Frisby Road, Barwell, Leicester, Leicestershire, LE9 8AB Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	134	-	444919 297327
37	Contemporary Trade Directory Entries Name: A B Refrigeration & Air Conditioning Ltd Location: 133, Charnwood Road, Barwell, Leicester, LE9 8FU Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	155	-	445008 297640
38	Contemporary Trade Directory Entries Name: Creasebusters Location: 143, Shilton Road, Barwell, Leicester, LE9 8BQ Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	338	-	445121 297125
39	Contemporary Trade Directory Entries Name: N F P Trucks Ltd Location: 52, Charnwood Road, Barwell, Leicester, LE9 8FJ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	356	-	444683 297668
40	Contemporary Trade Directory Entries Name: David Curtis Location: 153, Shilton Road, Barwell, Leicester, LE9 8BQ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	384	-	445232 297133
41	Contemporary Trade Directory Entries Name: Aluminium Systems Ltd Location: 100, Kirkby Road, Barwell, Leicester, LE9 8FQ Classification: Aluminium Fabricators Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	422	-	444567 297372
42	Contemporary Trade Directory Entries Name: Calgas Ltd Location: 30, Greenhill Drive, Barwell, Leicester, LE9 8BW Classification: Gas Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	429	-	444794 297060
43	Contemporary Trade Directory Entries Name: R B A Motor Engineers Location: 142, Heath Lane, Earl Shilton, Leicester, LE9 7PD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	442	-	445403 297680
44	Contemporary Trade Directory Entries Name: Cedar Motors Ltd Location: 163, Shilton Road, Barwell, Leicester, LE9 8BQ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	450	-	445316 297118
45	Contemporary Trade Directory Entries Name: Stainless Cleaning Service Location: 88, Kirkby Road, Barwell, Leicester, LE9 8FQ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	451	-	444572 297261
46	Contemporary Trade Directory Entries Name: G T Precision Engineering Location: Unit 6 Kingsfield Rd, Barwell, Leicester, Leicestershire, LE9 8GR Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	452	-	444713 297082
47	Contemporary Trade Directory Entries Name: Ace Haul Location: 9, Kingsfield Road, Barwell, Leicester, LE9 8GR Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	466	-	444688 297084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Contemporary Trade Directory Entries Name: J R S Dyers Location: Unit 8, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Dyers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	482	-	444708 297049
47	Contemporary Trade Directory Entries Name: Dcm Ltd Location: Unit 4, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Sales@Tee-Jay Ltd Location: Unit 1, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Grantcraft Ltd Location: Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Knitwear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Miltum Precision Engineers Location: Unit 6, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Rex Caunt Location: Unit 6, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Motor Cycle & Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: G T Precision Engineering Location: Kingsfield Road, Barwell, Leicester, LE9 8GR Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Whytek Heating Services Ltd Location: Unit 5, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Heating Services - Industrial and Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
47	Contemporary Trade Directory Entries Name: Ultrabox Location: Unit 14, Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Classification: Paper & Cardboard Products & Packaging - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	506	-	444683 297037
48	Contemporary Trade Directory Entries Name: C & S Transport Location: 140, Kirkby Road, Barwell, Leicester, Leicestershire, LE9 8FS Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	478	-	444516 297556
48	Contemporary Trade Directory Entries Name: Gleam Clean Location: 140, Kirkby Road, Barwell, Leicester, LE9 8FS Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	478	-	444516 297556
49	Contemporary Trade Directory Entries Name: K & N International Ltd Location: Kingsfield House, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Garden & Patio Furniture Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	504	-	444631 297085

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Contemporary Trade Directory Entries Name: Atk International Trading Ltd Location: Kingsfield House, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	504	-	444631 297085
49	Contemporary Trade Directory Entries Name: Maurice D Spencer & Co Location: Unit 2a, Kingsfield Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Printing Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	507	-	444625 297086
49	Contemporary Trade Directory Entries Name: Craig Arnolds Ltd Location: Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	542	-	444593 297068
49	Contemporary Trade Directory Entries Name: Colmore Car Care Location: Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	542	-	444593 297068
50	Contemporary Trade Directory Entries Name: Linrose (Schoolwear) Location: The Konfidence Works, Arthur St, Barwell, Leicester, Leicestershire, LE9 8GZ Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	560	-	444614 297024
50	Contemporary Trade Directory Entries Name: R S L Plastics Ltd Location: Unit 6, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Machine Shops Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	561	-	444593 297041
50	Contemporary Trade Directory Entries Name: Pro Packaging Ltd Location: Unit 5, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: J M Cooper Knitwear Location: Unit B, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Knitwear Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Barwell Body Works Location: Unit 1, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: A & M Bolton Location: Unit C, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Footwear Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Oak Lea Textiles Ltd Location: Unit 8, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Vogue Beds Location: Unit 3, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Homefurnishings - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	Contemporary Trade Directory Entries Name: G S Nylons Location: Unit 6, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Hosiery Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Alpha Seating Ltd Location: Unit 10, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Seating Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Action Leisurewear Location: Unit 6, The Konfidence Works, Arthur Street, Barwell, Leicester, Leicestershire, LE9 8GZ Classification: T-Shirts Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	587	-	444591 297009
50	Contemporary Trade Directory Entries Name: Clem'S Garden Products Location: Unit 1, Arthur Street, Barwell, Leicester, Leicestershire, LE9 8GZ Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	592	-	444552 297039
50	Contemporary Trade Directory Entries Name: T J Textiles Location: Unit 1, The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Classification: Lingerie & Hosiery Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	592	-	444594 296999
50	Contemporary Trade Directory Entries Name: Bigdog Drum Stuff Location: Unit 1, The Konfidence Works, Arthur Street, Barwell, Leicester, Leicestershire, LE9 8GZ Classification: Musical Instrument - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	592	-	444594 296999
51	Contemporary Trade Directory Entries Name: Bob Gale Location: 92, Shilton Road, Barwell, Leicester, LE9 8BN Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	564	-	444820 296906
52	Contemporary Trade Directory Entries Name: Leicester Steam Specialists Ltd Location: The Pines, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	583	-	444976 296860
53	Contemporary Trade Directory Entries Name: Print Solutions (Midlands) Ltd Location: Elwell Av, Barwell, Leicester, Leicestershire, LE9 8FH Classification: Printing Engineering Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	583	-	444861 298054
54	Contemporary Trade Directory Entries Name: Ray Cole Doors Ltd Location: 1, George Street, Barwell, Leicester, LE9 8GN Classification: Door Manufacturers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	593	-	444628 296970
54	Contemporary Trade Directory Entries Name: Sharnford Autocrash Location: 8-10, George Street, Barwell, Leicester, LE9 8GN Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	610	-	444637 296942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Contemporary Trade Directory Entries Name: Mitchell Roofing Specialist Of Hinckley Location: 200, Kirkby Road, Barwell, Leicester, LE9 8FS Classification: Fascias and Soffits Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	600	-	444607 297949
56	Contemporary Trade Directory Entries Name: Ams Motorcycle Services Location: 3 George St, Barwell, Leicester, Leicestershire, LE9 8GN Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	608	-	444620 296957
56	Contemporary Trade Directory Entries Name: Factory Direct Fireplaces Location: 4, George Street, Barwell, LEICESTER, LE9 8GN Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	633	-	444619 296927
56	Contemporary Trade Directory Entries Name: S J Textiles Location: George Street, Barwell, Leicester, LE9 8GN Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	634	-	444596 296943
56	Contemporary Trade Directory Entries Name: Central Productions Location: 2, George Street, Barwell, Leicester, LE9 8GN Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	638	-	444608 296928
56	Contemporary Trade Directory Entries Name: New Guard Coatings Ltd Location: 2, George Street, Barwell, Leicester, Leicestershire, LE9 8GN Classification: Painting & Decorating Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	638	-	444608 296928
56	Contemporary Trade Directory Entries Name: Moccasins Unique Ltd Location: 6A King St, Barwell, Leicester, Leicestershire, LE9 8GQ Classification: Footwear - Manufacturers and Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	648	-	444585 296934
56	Contemporary Trade Directory Entries Name: Chelle Location: Barton Buildings, King St, Barwell, Leicester, Leicestershire, LE9 8GQ Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	648	-	444585 296934
56	Contemporary Trade Directory Entries Name: Rem Remedial Location: King St, Barwell, Leicester, Leicestershire, LE9 8GQ Classification: Footwear Manufacturers & Wholesale Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	650	-	444586 296930
56	Contemporary Trade Directory Entries Name: Custom Footwear Ltd Location: Unit 1, Barton Buildings, King Street, Barwell, Leicester, LE9 8GQ Classification: Footwear Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	674	-	444569 296913
57	Contemporary Trade Directory Entries Name: Finishing Touches Location: 4, Glyn Close, Barwell, Leicester, LE9 8GL Classification: Spraying - Paint & Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	616	-	444438 297160
58	Contemporary Trade Directory Entries Name: Local Sales Ltd Location: 115, Hinckley Road, Earl Shilton, LEICESTER, LE9 7LJ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	618	-	445588 297239

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	Contemporary Trade Directory Entries Name: David Mangham Haulage Location: 27, Cumberland Way, Barwell, Leicester, LE9 8HX Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	673	-	444310 297442
60	Contemporary Trade Directory Entries Name: Autotune Uk Tvr Location: Unit 2, Hazel Way, Barwell, Leicester, Leicestershire, LE9 8GP Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	675	-	444329 297276
60	Contemporary Trade Directory Entries Name: The Truck Colour Co Location: Hazel Way, Barwell, Leicester, Leicestershire, LE9 8GP Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	677	-	444328 297273
61	Contemporary Trade Directory Entries Name: The Wipe Shop Location: 1, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	677	-	444815 296790
62	Contemporary Trade Directory Entries Name: R Faulks Location: 46, Shilton Road, Barwell, Leicester, LE9 8HA Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	690	-	444614 296861
62	Contemporary Trade Directory Entries Name: Delta Pumps Ltd Location: 2a, Queen Street, Barwell, Leicester, LE9 8EA Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	692	-	444641 296843
62	Contemporary Trade Directory Entries Name: Amber Joinery Location: A, 2, Queen Street, Barwell, Leicester, Leicestershire, LE9 8EA Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	692	-	444641 296843
62	Contemporary Trade Directory Entries Name: E I S Location: 14, Queen Street, Barwell, Leicester, LE9 8EA Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	727	-	444628 296810
63	Contemporary Trade Directory Entries Name: Astral Location: 25, Elmesthorpe Lane, Earl Shilton, Leicester, LE9 7PT Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	709	-	445550 296990
64	Contemporary Trade Directory Entries Name: Print Solutions (Midlands) Ltd Location: 142, Hinckley Road, Earl Shilton, LEICESTER, LE9 7LD Classification: Printing Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	712	-	445717 297424
65	Contemporary Trade Directory Entries Name: Chaloss Location: Hazel Way, Barwell, Leicester, LE9 8GP Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	716	-	444313 297190
65	Contemporary Trade Directory Entries Name: Midland Commercial Services Ltd Location: Hazel Way, Barwell, Leicester, LE9 8GP Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	716	-	444313 297190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	Contemporary Trade Directory Entries Name: M & F Paint Finishers Location: Hazel Way, Barwell, Leicester, LE9 8GP Classification: Spraying - Paint & Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	716	-	444313 297190
66	Contemporary Trade Directory Entries Name: K C Scaffolding Location: 35, Balmoral Road, Earl Shilton, Leicester, LE9 7HB Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	717	-	445680 297202
66	Contemporary Trade Directory Entries Name: Domestic Goddess Location: 35, Balmoral Road, Earl Shilton, Leicester, LE9 7HB Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	717	-	445680 297202
67	Contemporary Trade Directory Entries Name: Djs Refrigeration Location: Unit 4a, Dawsons La, Barwell, Leicester, Leicestershire, LE9 8BE Classification: Refrigeration Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	719	-	444786 296754
67	Contemporary Trade Directory Entries Name: Protechted Within The Enterprise Centre Location: Dawsons Lane, Barwell, Leicester, Leicestershire, LE9 8BE Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	722	-	444817 296742
67	Contemporary Trade Directory Entries Name: Protechted Screen Cloth Location: Dawsons La, Barwell, Leicester, Leicestershire, LE9 8BE Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	722	-	444817 296742
67	Contemporary Trade Directory Entries Name: S & J Precision Engineering Location: Unit 2, Dawson Lane Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	742	-	444806 296724
67	Contemporary Trade Directory Entries Name: Elmleigh Electrical Systems Ltd Location: H L P House, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	765	-	444765 296712
68	Contemporary Trade Directory Entries Name: B C H Relays Ltd Location: 30-44, Shilton Road, Barwell, Leicester, LE9 8HA Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	725	-	444583 296840
69	Contemporary Trade Directory Entries Name: Southside Autos Location: Townend Road, Barwell, Leicester, LE9 8HG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	729	-	444388 297025
70	Contemporary Trade Directory Entries Name: Asap Location: 3, Ormond Close, Barwell, Leicester, LE9 8LX Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	730	-	444253 297459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	Contemporary Trade Directory Entries Name: Commercial Cleaning Services Location: 3, Hazel Way, Barwell, Leicester, LE9 8GP Classification: Steam Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	733	-	444279 297240
72	Contemporary Trade Directory Entries Name: Connexions Plastics Ltd Location: Unit 11, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	743	-	444864 296712
72	Contemporary Trade Directory Entries Name: Acrylics R Us Location: Unit 4, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Polythene & Plastic Sheetting Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Acrylics R Us Location: Unit 4, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Acrylics R Us Location: Unit 4, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Deason Joinery Ltd Location: Unit 3, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Accurate Grinding Ltd Location: Unit 15/A, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Frog Island Hosiery Ltd Location: Unit 3, Dawsons Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Lingerie & Hosiery Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: Almac Quality Metal Spinning Location: Unit 18, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Metal Spinners Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	751	-	444863 296703
72	Contemporary Trade Directory Entries Name: J B S Commercial Fleet Services Ltd Location: Unit 10, Dawsons Lane Enterprise Centre, Barwell, Leicester, Leicestershire, LE9 8BE Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (S)	753	-	444862 296702
72	Contemporary Trade Directory Entries Name: Chelle Leisurewear Location: Unit 18, The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	768	-	444878 296684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	Contemporary Trade Directory Entries Name: Mawchem Location: 7, Doctors Fields, Earl Shilton, Leicester, LE9 7HN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	744	-	445741 297331
74	Contemporary Trade Directory Entries Name: Chaloss Co Ltd Location: Chaloss Co Ltd, Hazel Way, Barwell, LE9 8GP Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (SW)	745	-	444309 297127
74	Contemporary Trade Directory Entries Name: Ident Machines Ltd Location: Stapleton Lane, Barwell, Leicester, LE9 8HE Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	748	-	444316 297107
74	Contemporary Trade Directory Entries Name: Diesel Power Services Barwell Ltd Location: Stapleton Lane, Barwell, Leicester, LE9 8HE Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	748	-	444316 297107
74	Contemporary Trade Directory Entries Name: Ident Machines Location: Stapleton Lane, Barwell, Leicester, Leicestershire, LE9 8HE Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	748	-	444316 297107
74	Contemporary Trade Directory Entries Name: Ident Machines Ltd Location: Stapleton Lane, Barwell, Leicester, LE9 8HE Classification: Printing Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	748	-	444316 297107
74	Contemporary Trade Directory Entries Name: Verdon Sawmills Location: 32, Stapleton Lane, Barwell, Leicester, LE9 8HE Classification: Sawmills & Wood Shavings Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	771	-	444316 297058
75	Contemporary Trade Directory Entries Name: Poole Engineering Ltd Location: Unit 11, Dawsons Lane, Barwell, Leicester, Leicestershire, LE9 8BE Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (SW)	749	-	444692 296755
75	Contemporary Trade Directory Entries Name: Haines Wiping Products Location: The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	749	-	444692 296755
75	Contemporary Trade Directory Entries Name: Three Nations Ltd Location: Unit 4/A, The Enterprise Centre, Dawsons Lane, Barwell, LEICESTER, LE9 8BE Classification: Refrigeration Equipment - Commercial Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (SW)	749	-	444692 296755
76	Contemporary Trade Directory Entries Name: Top Range Motors Location: Stapleton Lane, Barwell, Leicester, LE9 8HD Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	753	-	444421 296945

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	Contemporary Trade Directory Entries Name: Mercia Wipers Location: 4, Edinburgh Road, Earl Shilton, LEICESTER, LE9 7HP Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (SE)	794	-	445735 297131
78	Contemporary Trade Directory Entries Name: Direct Supplies Location: 7, Stafford Street, Barwell, LEICESTER, LE9 8HF Classification: Builders' Tools & Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	805	-	444315 296994
78	Contemporary Trade Directory Entries Name: George Danby & Son Ltd Location: Bank Terrace, Barwell, LEICESTER, LE9 8GG Classification: Foam Products - Rubber & Plastics Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	832	-	444305 296963
78	Contemporary Trade Directory Entries Name: Woodcraft Joinery Ltd Location: 19, Bank Terrace, Barwell, LEICESTER, LE9 8GG Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	858	-	444309 296914
79	Contemporary Trade Directory Entries Name: Pex Plc Location: 104, Hinckley Road, Earl Shilton, Leicester, LE9 7LD Classification: Lingerie Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	819	-	445821 297578
80	Contemporary Trade Directory Entries Name: J Moore Location: 10a, Chapel Street, Barwell, Leicester, LE9 8DD Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	822	-	444455 296814
80	Contemporary Trade Directory Entries Name: Pet Food Etc Location: 5, High Street, Barwell, Leicester, LE9 8DQ Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	850	-	444409 296818
81	Contemporary Trade Directory Entries Name: Dixon Of The Common Location: The Common, Barwell, Leicester, LE9 8BR Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	444668 296665
81	Contemporary Trade Directory Entries Name: Diamond Solutions Location: Unit 2, The Common, Barwell, Leicester, LE9 8BR Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Allied Automotive Location: Unit 4, The Common, Barwell, Leicester, LE9 8BR Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: The Smiths Location: Unit 2, The Common, Barwell, Leicester, LE9 8BR Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Pro Paint Finishers Location: Unit 4, The Common, Barwell, Leicester, LE9 8BR Classification: Car Painters & Sprayers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Contemporary Trade Directory Entries Name: G M B Autos Location: Unit 8, 4-6, The Common, Barwell, Leicester, Leicestershire, LE9 8BR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Global Cars Location: Unit 2, The Common, Barwell, LEICESTER, LE9 8BR Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Global Cars Location: Unit 2, The Common, Barwell, Leicester, Leicestershire, LE9 8BR Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Van Sales Location: Unit 4, The Common, Barwell, Leicester, LE9 8BR Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
81	Contemporary Trade Directory Entries Name: Van Hunter Location: Unit 4, The Common, Barwell, Leicester, LE9 8BR Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SW)	844	-	444660 296665
82	Contemporary Trade Directory Entries Name: Centreline Car Sales Ltd Location: The Common, Barwell, Leicester, Leicestershire, LE9 8BR Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	852	-	444756 296624
83	Contemporary Trade Directory Entries Name: Phoenix Trading Location: High St, Barwell, Leicester, Leicestershire, LE9 8DQ Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	880	-	444380 296804
84	Contemporary Trade Directory Entries Name: Hitachi Tool Engineering Europe GmbH Location: High St, Barwell, Leicester, Leicestershire, LE9 8DQ Classification: Cutting Tools & Machinery Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	914	-	444362 296774
84	Contemporary Trade Directory Entries Name: Coventry & Eastmercia Co-Operative Ltd Location: High Street, Barwell, Leicester, LE9 8DQ Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	941	-	444358 296742
84	Contemporary Trade Directory Entries Name: Gascare Services Location: 49, High Street, Barwell, LEICESTER, LE9 8DS Classification: Gas Appliances - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	959	-	444346 296728
84	Contemporary Trade Directory Entries Name: Gascare Services (Barwell) Ltd Location: 49, High Street, Barwell, Leicester, LE9 8DS Classification: Gas Appliances - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	959	-	444346 296728
85	Contemporary Trade Directory Entries Name: D G Kitto Location: 29, Jersey Way, Barwell, Leicester, LE9 8HR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	922	-	444288 296840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	Contemporary Trade Directory Entries Name: Vanhunter Ltd Location: The Common, Barwell, Leicester, Leicestershire, LE9 8BR Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	924	-	444810 296537
87	Contemporary Trade Directory Entries Name: Q C S 2000 Ltd Location: Warwick Court, Rossendale Road, Earl Shilton, Leicester, Leicestershire, LE9 7LY Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NE (E)	932	-	445939 297517
87	Contemporary Trade Directory Entries Name: D J S Automotive Location: The Garage, Rossendale Road, Earl Shilton, Leicester, LE9 7LX Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	944	-	445951 297508
88	Contemporary Trade Directory Entries Name: Elite Printing Location: The Common, Barwell, Leicester, Leicestershire, LE9 8BS Classification: Printers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	959	-	444872 296492
89	Contemporary Trade Directory Entries Name: Bradgate Products Ltd Location: The Barracks, Barwell, Leicester, LE9 8EF Classification: Cosmetic Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	991	-	444278 296748
90	Contemporary Trade Directory Entries Name: Howkins & Johnson Plumbing & Heating Services Location: 16, Adcote Close, Barwell, Leicester, Leicestershire, LE9 8DT Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	996	-	444477 296587
91	Contemporary Trade Directory Entries Name: Custom Moulding Location: Unit F, Warwick Buildings, New Street, Earl Shilton, Leicester, Leicestershire, LE9 7FS Classification: Glass Fibre Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	1000	-	446007 297532
92	Fuel Station Entries Name: Cedar Motors Location: 163, Shilton Road, Barwell, Leicester, LE9 8BQ Brand: UNBRANDED Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	435	-	445296 297120
93	Fuel Station Entries Name: Top Range Motors Location: Stapleton Lane, Barwell, Leicester, LE9 8HD Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A7NE (SW)	753	-	444421 296945
94	Points of Interest - Commercial Services Name: N F P Trucks Ltd Location: 52 Charnwood Road, Barwell, Leicester, LE9 8FJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (NW)	355	7	444683 297664
95	Points of Interest - Commercial Services Name: R B A Motor Engineers Location: 142 Heath Lane, Earl Shilton, Leicester, LE9 7PD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	442	7	445403 297680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Points of Interest - Commercial Services Name: Rba Motor Engineers Location: 142 Heath Lane, Earl Shilton, Leicester, LE9 7PD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	442	7	445403 297680
96	Points of Interest - Commercial Services Name: Ace Haul Location: 9 Kingsfield Road, Barwell, Leicester, LE9 8GR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (SW)	466	7	444688 297084
96	Points of Interest - Commercial Services Name: Pro-trim Location: Unit 15 Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	506	7	444683 297037
96	Points of Interest - Commercial Services Name: I R Fabrications Ltd Location: Kings Court, Kingsfield Road, Barwell, Leicester, LE9 8NZ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A8NW (SW)	506	7	444683 297037
97	Points of Interest - Commercial Services Name: Driving Services Location: 132 Kirkby Road, Barwell, Leicester, LE9 8FN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (W)	470	7	444521 297532
97	Points of Interest - Commercial Services Name: C & S Transport Location: 140 Kirkby Road, Barwell, Leicester, LE9 8FS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (W)	478	7	444516 297556
97	Points of Interest - Commercial Services Name: C & S Transport Location: 140 Kirkby Road, Barwell, Leicester, LE9 8FS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (W)	478	7	444516 297556
98	Points of Interest - Commercial Services Name: J & C Motorcycle Services Location: Unit C The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	542	7	444593 297068
98	Points of Interest - Commercial Services Name: Getaway Van Conversions Location: Unit 7 The Konfidence Works, Arthur Street, Barwell, Leicester, LE9 8GZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	587	7	444591 297009
98	Points of Interest - Commercial Services Name: Barwell Body Work Location: Unit 1, Arthur Street, Barwell, Leicester, LE9 8GZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	587	7	444591 297009
98	Points of Interest - Commercial Services Name: Barwell Body Works Location: Unit 1, Arthur Street, Barwell, Leicester, LE9 8GZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	608	7	444539 297030
98	Points of Interest - Commercial Services Name: Sharnford Autocrash Location: 8-10 George Street, Barwell, Leicester, LE9 8GN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	610	7	444637 296942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Points of Interest - Commercial Services Name: A M S Motorcycle Services Location: 3 George Street, Barwell, Leicester, LE9 8GN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	636	7	444621 296922
100	Points of Interest - Commercial Services Name: David Mangham Haulage Location: 27 Cumberland Way, Barwell, Leicester, LE9 8HX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	673	7	444310 297442
101	Points of Interest - Commercial Services Name: Climate Change Vehicle Air Conditioning Location: 17 Balmoral Road, Earl Shilton, Leicester, LE9 7HB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	685	7	445622 297146
102	Points of Interest - Commercial Services Name: T C C Leicester Ltd Location: 9 Hazel Way, Barwell, Leicester, LE9 8GP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	704	7	444304 297259
102	Points of Interest - Commercial Services Name: Midland Commercial Services Ltd Location: Hazel Way, Barwell, Leicester, LE9 8GP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	716	7	444313 297190
102	Points of Interest - Commercial Services Name: Diesel Power Services Ltd Location: Stapleton Lane, Barwell, Leicester, LE9 8HE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	748	7	444316 297107
102	Points of Interest - Commercial Services Name: Diesel Power Services Barwell Ltd Location: Stapleton Lane, Barwell, Leicester, LE9 8HE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	803	7	444231 297162
102	Points of Interest - Commercial Services Name: Autotune UK TVR Location: Unit 2, Hazel Way, Barwell, Leicester, LE9 8GP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	803	7	444231 297162
103	Points of Interest - Commercial Services Name: B T Motors Location: Unit 1, Dawsons Lane, Barwell, Leicester, LE9 8BE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	735	7	444799 296733
104	Points of Interest - Commercial Services Name: B T Motor Services Location: Unit 1 The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	749	7	444692 296755
104	Points of Interest - Commercial Services Name: Glendale Auto Services Location: Dawsons Lane, Barwell, Leicester, LE9 8BE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	749	7	444692 296755
105	Points of Interest - Commercial Services Name: Glendale Auto Services Location: , 1a Dawsons La, Barwell, Leicester, Leicestershire, LE9 8BE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	765	7	444682 296742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	Points of Interest - Commercial Services Name: Dixon of the Common Location: The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
105	Points of Interest - Commercial Services Name: Allied Automotive Ltd Location: Unit 4, The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
105	Points of Interest - Commercial Services Name: G M B Autos Location: Unit 8 4-6, The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
105	Points of Interest - Commercial Services Name: G M B Autos Location: Unit 6, The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
105	Points of Interest - Commercial Services Name: Dixon of the Common Location: Unit 6, The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
105	Points of Interest - Commercial Services Name: Allied Automotive Location: Unit 5, The Common, Barwell, Leicester, LE9 8BR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (SW)	844	7	444660 296665
106	Points of Interest - Commercial Services Name: Whittle Haulage Ltd Location: 27 Coronation Road, Earl Shilton, Leicester, LE9 7HL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (SE)	806	7	445755 297149
107	Points of Interest - Commercial Services Name: J & C Motorcycle Location: 23 The Common, Barwell, Leicester, LE9 8BS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	835	7	444768 296638
108	Points of Interest - Commercial Services Name: Nolan Transport Location: 6 High Street, Barwell, Leicester, LE9 8DQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	851	7	444386 296839
109	Points of Interest - Commercial Services Name: Dms Motors Location: Heath Lane South, Earl Shilton, Leicester, LE9 7PG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	892	7	445891 297605
109	Points of Interest - Commercial Services Name: D M S Motors Location: Heath Lane South, Earl Shilton, Leicester, LE9 7PG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	892	7	445891 297605
110	Points of Interest - Commercial Services Name: D J S Automotive Ltd Location: The Garage, Rossendale Road, Earl Shilton, Leicester, LE9 7LX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	944	7	445951 297508

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Points of Interest - Commercial Services Name: D J S Automotive Location: The Garage, Rossendale Road, Earl Shilton, Leicester, LE9 7LX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	944	7	445951 297508
111	Points of Interest - Commercial Services Name: Tyre Medics Location: 73 The Common, Barwell, Leicester, LE9 8BS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	977	7	444912 296470
112	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	321	7	445040 297123
113	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	504	7	444567 297161
113	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7NE (SW)	519	7	444600 297094
113	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	532	7	444593 297083
114	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	513	7	444636 297067
114	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7NE (SW)	518	7	444639 297057
114	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	554	7	444669 296989
114	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	579	7	444587 297023
114	Points of Interest - Manufacturing and Production Name: Works Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	584	7	444589 297014
115	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	606	7	444614 296964

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	607	7	444613 296964
115	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	664	7	444573 296922
115	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	705	7	444590 296860
116	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	703	7	444780 296772
116	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	703	7	444874 296751
116	Points of Interest - Manufacturing and Production Name: Dawsons Lane Enterprise Centre Ltd Location: Dawsons La, Barwell, Leicester, Leicestershire, LE9 8BE Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A8SW (S)	714	7	444850 296744
116	Points of Interest - Manufacturing and Production Name: Dawsons Lane Enterprise Centre Ltd Location: Dawsons Lane, Barwell, Leicester, Leicestershire, LE9 8BE Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A8SW (S)	714	7	444850 296744
116	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A8SW (S)	723	7	444815 296742
116	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	725	7	444821 296738
116	Points of Interest - Manufacturing and Production Name: Works Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	756	7	444796 296713
116	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	757	7	444907 296692
117	Points of Interest - Manufacturing and Production Name: Works Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	732	7	444298 297187

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	735	7	444295 297187
117	Points of Interest - Manufacturing and Production Name: Works Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	789	7	444243 297172
117	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	790	7	444242 297172
117	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	862	7	444165 297173
118	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	742	7	444697 296760
118	Points of Interest - Manufacturing and Production Name: Works Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	743	7	444694 296760
118	Points of Interest - Manufacturing and Production Name: Granite Transformations Location: The Enterprise Centre, Dawsons Lane, Barwell, Leicester, LE9 8BE Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A8SW (SW)	749	7	444692 296755
118	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A8SW (S)	757	7	444765 296720
118	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	762	7	444764 296715
119	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	760	7	444310 297091
119	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7NW (SW)	764	7	444308 297087
120	Points of Interest - Manufacturing and Production Name: T H & E J Ward Location: The Bungalow Brockey Farm, Kirkby Road, Barwell, Leicester, LE9 8FT Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18NW (N)	821	7	444906 298302

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	831	7	445834 297565
122	Points of Interest - Manufacturing and Production Name: B A Foster Location: Carrs Hill, Barwell, Leicester, LE9 8BD Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8SE (S)	911	7	445296 296580
123	Points of Interest - Manufacturing and Production Name: J P Naylor Co Ltd Location: Portland House, Stapleton Lane, Barwell, Leicester, LE9 8HE Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A12SW (W)	921	7	444082 297251
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	929	7	444067 297288
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	929	7	444076 297246
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	930	7	444077 297233
123	Points of Interest - Manufacturing and Production Name: Tanks Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	941	7	444054 297295
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	955	7	444049 297245
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	966	7	444029 297292
123	Points of Interest - Manufacturing and Production Name: Tank Location: LE9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	999	7	444001 297261
124	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	976	7	445980 297393
125	Points of Interest - Manufacturing and Production Name: Factory Location: LE9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NE (E)	992	7	445997 297549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	Points of Interest - Public Infrastructure Name: Omega Coach Travel Location: 27 Byron Street, Barwell, Leicester, LE9 8FE Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A13NW (W)	340	7	444665 297589
127	Points of Interest - Public Infrastructure Name: Cedar Motors Location: 163 Shilton Road, Barwell, Leicester, LE9 8BQ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (SE)	435	7	445296 297120
128	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	538	7	444446 297417
128	Points of Interest - Public Infrastructure Name: Cemetery Location: LE9 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	538	7	444446 297418
129	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	23	7	445013 297505
130	Points of Interest - Recreational and Environmental Name: Playground Location: Farm Road, LE9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	472	7	445299 297854
131	Points of Interest - Recreational and Environmental Name: Playground Location: Kirkby Road, LE9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12SE (W)	481	7	444507 297376
132	Points of Interest - Recreational and Environmental Name: Playground Location: Coronation Road, LE9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9NE (SE)	869	7	445800 297093
132	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	871	7	445798 297083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (NW)	0	9	444996 297463
134	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SW (W)	133	9	444850 297450

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Rugby Borough Council - Environmental Health Department Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department	December 2014 December 2015 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Midlands Region	October 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Midlands Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Midlands Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Midlands Region	October 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department Rugby Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department Rugby Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department Rugby Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Midlands Region	July 2015	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Midlands Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	October 2016 October 2016 October 2016 October 2016	Quarterly Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Midlands Region	October 2016	Quarterly
Water Industry Act Referrals Environment Agency - Midlands Region	October 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2016	Quarterly
Flood Defences Environment Agency - Head Office	November 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	September 2014	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	January 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Midlands Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	August 2016 August 2016 August 2016 August 2016	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Midlands Region - Central Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	October 2016 October 2016 October 2016 October 2016	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department Leicestershire County Council Rugby Borough Council - Environmental Health Department Warwickshire County Council	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blaby District Council - Environmental Health Department Hinckley And Bosworth Borough Council - Environmental Health Department Leicestershire County Council Rugby Borough Council - Environmental Health Department Warwickshire County Council	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Midlands Region - Lower Severn Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Blaby District Council - Planning Department Hinckley And Bosworth Borough Council Leicestershire County Council Warwickshire County Council Rugby Borough Council	February 2016 February 2016 February 2016 July 2007 May 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Blaby District Council - Planning Department Hinckley And Bosworth Borough Council Leicestershire County Council Warwickshire County Council Rugby Borough Council	February 2016 February 2016 February 2016 July 2007 May 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	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	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	September 2016	Quarterly
Points of Interest - Education and Health PointX	September 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2016	Quarterly
Points of Interest - Public Infrastructure PointX	September 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt Rugby Borough Council	November 2016	As notified
Areas of Unadopted Green Belt Rugby Borough Council	November 2016	As notified
Areas of Outstanding Natural Beauty Natural England	January 2017	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	January 2017	Bi-Annually
Marine Nature Reserves Natural England	January 2017	Bi-Annually
National Nature Reserves Natural England	January 2017	Bi-Annually
National Parks Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	January 2017	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	January 2017	Bi-Annually
Special Protection Areas Natural England	January 2017	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Hinckley And Bosworth Borough Council - Environmental Health Department First Floor, Florence House, St Marys Road, Hinckley, Leicestershire, LE10 1EQ	Telephone: 01455 238141 Fax: 01455 890228 Website: www.hinckley-bosworth.gov.uk
5	Leicestershire County Council County Hall, Glenfield, Leicestershire, LE3 8RH	Website: www.leics.gov.uk
6	Blaby District Council - Environmental Health Department Council Offices, Desford Road, Narborough, Leicester, Leicestershire, LE9 5EP	Telephone: 0116 2750555 Fax: 0116 275368 Website: www.blaby.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
10	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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