The Sizewell C Project

6.4 Volume 3 Northern Park and Ride

Chapter 11 Geology and Land Quality
Appendices 11A - 11C

Revision: 1.0

Applicable Regulation: Regulation 5(2)(a)

PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

NORTHERN PARK AND RIDE - APPENDIX 11A DARSHAM PARK AND RIDE PHASE 1 DESK STUDY REPORT

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Appendix 11A: Phase 1 Desk Study Report

Please Note: The red line boundary used in the figures within the appendices was amended after these documents were finalised, and therefore does not reflect the boundaries in respect of which development consent has been sought in this application. However, these changes do not integrally change the conclusions and recommendations of this report.

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Member of the SNC-Lavalin Group

Sizewell C: Northern Park & Ride Site, Darsham

Phase 1 Desk Study Report

EDF Energy

January 2020

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Document history

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
Rev 1.0	Draft for Client review	ERB	DD	CW		March 2015
Rev 1.1	Update following client review	ERB	DD	CW	CW	June 2015
Rev 1.2	Update following client review	SJW	DD			July 2016
Rev 2.0	Updated following change in red line boundary	AA	MG	JA	JA	May 2018
Rev 3.0	Updated Draft	AA	EJG	JA	JA	July 2019
Rev 4.0	Final	AA	EJG	JA	JA	January 2020

Client signoff

Client	EDF Energy
Project	Sizewell C: Northern Park & Ride Site, Darsham
Job number	5166065/7.5/001/001/00/B
Client signature / date	

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Glossary of Abbreviations and Technical Terms

Abbreviation / Term	Description
BGS	British Geological Survey
COMAH	Control of Major Accident Hazards
CSM	Conceptual Site Model
DCO	Development Consent Order
EDF	EDF Energy
EIA	Environmental Impact Assessment
GAC	Generic Assessment Criteria
IPPC	Integrated Pollution Prevention and Control
MAGIC	Multi Agency Geographic Information for the Countryside
m bgl	Metres below ground level
NGR	National Grid Reference
NIHHS	Notification of Installations Handling Hazardous Substances
NPPF	National Planning Policy Framework
PCSM	Preliminary Conceptual Site Model
PINS	The Planning Inspectorate
RIGS	Regionally Important Geological Sites
SPZ	Source Protection Zone
SSAC	Site Specific Assessment Criteria
SSSI	Site of Special Scientific Interest
SZC	Sizewell C Development
UXO	Unexploded Ordnance

1. Introduction

1.1. General

Atkins has been commissioned by EDF Energy (EDF) to carry out a desk-based review of available information for the proposed new nuclear power station at Sizewell, Suffolk (referred to as Sizewell C). It is intended to submit a Development Consent Order (DCO) application to the Secretary of State, which will be supported by various documents including an Environmental Impact Assessment (EIA). The development proposals are for two main elements:

- **The Main Development Site:** including reactor buildings, turbine halls, cooling water infrastructure, interim waste / fuel storage, operational service centre and offices, electricity transmission equipment and various associated highways infrastructure.
- **Associated Development sites:** including two Park and Ride schemes, a freight management facility and improvements to rail / highways infrastructure.

This report is concerned with the proposed northern park and ride scheme for Sizewell C construction workers, which will be located approximately 1.2km to the north west of the centre of Darsham (referred to herein as the site). The location of the site is shown in Figure 1 included in Appendix A.

1.2. Purpose and Structure of Report

The purpose of this report is to collate and assess, where possible, the findings of the environmental desk study relevant to the proposed development and to identify key gaps in data should there be any. The key focus of the report is to identify potential contamination risks associated with the proposed development through preparation of a factual summary of the available information and where necessary, to assess the completeness and relevance of this information to identify requirements for further investigation. The information within this report will also form the baseline conditions for use in preparation of the Environmental Statement. An outline of the report content is provided below.

- Section 2 provides a description of the site location, including details of the proposed development and boundary as well as relevant off-site features;
- Section 3 sets out the desk study information obtained to establish the environmental setting of the site;
- Section 4 provides a Preliminary Conceptual Site Model (PCSM) developed through the identification and assessment of risk presented by potential pollutant linkages; and
- Section 5 summarises the extent of information available for the site, as well as identifying data gaps.

1.3. Limitations

The Envirocheck report [1] reviewed for the desk study was obtained in 2012 for the original redline boundary which has since been amended. However, the report includes the site and the surrounding area with a buffer of up to 1km and therefore covers the new redline boundary. The information for the site has also been updated with current information obtained from publicly available sources including British Geological Survey (BGS) mapping [2], the Environment Agency website, where available [3], Defra's MAGIC website [4], Zetica's website [5] and Suffolk Biological Records Centre [6].

The conclusions and recommendations of this report are based on the project description and redline boundary (Appendix A) provided to Atkins (Appendix A) at the time of writing the draft report (July 2019).

The findings and opinions conveyed via this report are based on information obtained from a variety of sources as detailed within this report. Nevertheless, Atkins cannot and does not guarantee the authenticity or reliability of the third party information. No attempt has been made to verify independently any data collected by others.

2. Site Location and Description

2.1. Proposed Development and Boundary

The proposed development at Darsham comprises a Park and Ride Scheme. Figure 1 included in Appendix A shows the site location, redline boundary.

The Park and Ride will include car parking areas with approximately 1,000 spaces; a bus terminus, parking and shelters; perimeter security fencing and lighting; a welfare building including toilets, drivers' rest room and security and administration offices; on-site soil storage which will be used for the reinstatement of the site once construction of Sizewell C is completed; and external areas including roadways, landscaping and sustainable drainage.

2.2. Site Location

The site is located 1.2km north west of Darsham Village in Suffolk, approximately 8.5km north west of the Main Development Site. The National Grid Reference (NGR) for the approximate centre of the site is TM 40715 70289.

The site comprises a roughly triangular area of agricultural land adjacent to and west of Main Road (A12) with a small extension to the north-east of Willow Marsh Lane to accommodate a new junction onto the A12.

Access can be gained from the north-eastern corner of the site, adjacent to White House Farm. The majority of the site is bounded by roads to the north and south-east (Willow Marsh Lane and the A12 respectively), while the western boundary is formed by the railway line. A petrol station is located immediately south of the site.

2.3. Site Visit

A site visit was carried out by two Atkins Environmental Consultants during March 2019 to gain further information on the site setting, to consider the context of the proposed development, and to confirm the current desk study mapping and aerial photographs. Additionally, it was an opportunity to identify potential visual or olfactory contamination present at the site at the time of the visit. The observations from the site visit are summarised below and photographs are provided in Appendix E.

2.3.1. Land Use

The site was noted to comprise large open fields and farmed agricultural land.

2.3.2. Site Boundaries

The site is bound to the north-west by Willow Marsh Lane and the north-eastern boundary of the site is formed by properties situated along Main Road (the A12).

The eastern boundary of the site comprises the A12 and residential properties including White House Farm and Moate Hall. The south-eastern boundary of the site comprises the A12 and Darsham Service Station (petrol station, cafe and shop). Darsham Railway Station is located adjacent to the south of the site.

The south-western and north-western boundaries of the site are formed by the East Suffolk line. Willow Marsh Cottage is located adjacent to the north-western corner of the site. An area of woodland (Little Nursery Wood) forms the central area of the western boundary of the site.

2.3.3. Surrounding Area

Agricultural fields are located to the west, north and east, with some residential properties to the south and east.

2.3.4. Ground Cover and Topography

The ground cover is agricultural land, which had been ploughed at the time of the visit. The site is generally flat with a gentle slope towards the western boundary.

2.3.5. Surface Water

A pond is present in the eastern section of the site adjacent to Moate Hall, surrounded by trees. Drainage ditches were present along the northern boundary of the site along Willow Marsh Lane.

2.3.6. Services

Overhead cables (telecoms) are present in the south of the site (in a south-east to north-west orientation), along the eastern site boundary and along part of the northern boundary towards the east (in a west to east orientation).

2.3.7. Visual / Olfactory Evidence of Contamination

No visual or olfactory evidence of contamination was noted during the visit completed in March 2019.

2.3.8. Potential Hazards and / or Constraints

The site visit identified several features which may have the potential to place a constraint on construction and / or operational phases of the proposed development:

- Fences and drainage ditches could be potentially hazardous and restrict access of plant required for ground investigation and / or construction.
- Overhead cables (telecoms) may restrict access of plant required for ground investigation and / or construction.
- The woods identified adjacent to the east of the site may provide ecological habitats and could restrict areas accessed and working times for ground investigation and / or construction.
- Access to the site may be restricted due to landowner agreements and the current use of the agricultural fields, additional biosecurity measures may be required

3. Environmental Setting

3.1. General

An Envirocheck report [1] was obtained in 2012 and has been used to provide information relating to the site and surrounding areas and is presented in Appendix B. Further information has also been obtained from publicly available sources of information including BGS geological mapping and historical borehole records [2], the Environment Agency website, where available [3], Defra's MAGIC online mapping [4], the Zetica online unexploded ordnance (UXO) risk maps [5], and Suffolk Biological Records Centre website [6].

3.2. Site History

A review of the historical and current land use of the site and surrounding area (within 500m of the site) has been undertaken to identify the nature and location of potentially contaminative activities that may have taken place on or adjacent to the site.

Historical maps between 1884 and 1995 at a 1:2,500 scale and between 1884 and 2012 at a 1:10,000 scale are presented within the Envirocheck report [1], included in Appendix B. Information obtained during the site visit in 2019 was used to determine whether there had been any significant changes between 2012 and present day. Key aspects of the site history are summarised in Table 3.1.

Table 3.1 Summary of site history

Date (Scale)	On-site	Surrounding area
1884 (1:2,500) 1884 / 1885 (1:10,560)	The majority of the site is shown as enclosed fields bound to the north-west and south-west by the East Suffolk Line and in the south-east, north-east and north by unnamed roads in the current positions of Main Road and Willow Marsh Lane respectively. The extension to the site is shown as part of an agricultural field bound by the roads identified above and fields.	The surrounding area comprises predominantly agricultural land and associated farm properties including White House Farm adjacent to the east of the site. Darsham Station (rail) is shown immediately south of the site. 'Little Nursery' Wood is shown adjacent to the central western site boundary. A small 'moat' and a pond are shown adjacent to the eastern site boundary.
1904 (1:2,500) / 1905 (1:10,560)	No significant changes.	No significant changes.
1950 / 1951 (1:10,560)		
1957 / 1958 (1:10,000)		
1976 (1:2,500)	No significant changes.	The area to the immediate south of the site has undergone some development and two granaries are now labelled. A garage (Darsham Service Station) is shown adjacent to the south-east of the site. 'Little Nursery' Wood is now shown to have expanded westwards towards the railway.
1982 (1:10,000)	No significant changes.	Main Road is now labelled as the A12 (T).
1995 (1:2,500)		
2012 (1:10,000)	No significant changes.	Two granaries are shown; one of the granaries immediately south of the site is now labelled as 'Station Works' whilst the other one is no longer labelled.

Date (Scale)	On-site	Surrounding area
Present day	No significant changes.	No significant changes.

The site has remained largely undeveloped for the period covered by the available historical maps.

The surrounding area has also remained predominantly agricultural since 1884 (the earliest available map), with the exception of Darsham Station immediately south of the site and the railway (East Suffolk Line) adjacent to the north-west and south-west of the site. Darsham Service Station including a garage(has also been located adjacent to the south-east of the site from at least 1976, and White House Farm has been present adjacent to the east of the site since the earliest recorded maps (1884). These activities may cause a potential contamination risk to the site.

3.3. Superficial and Bedrock Geology

The geological sequence in the area has been determined from BGS website [2].

3.3.1. Made Ground / Artificial Deposits

Made Ground is not shown to be present on the BGS online mapping [2], however the area adjacent to the East Suffolk Line the areas of the site associated with the existing roads (A12 (Main Road) and Willow Marsh Lane) have the potential to include Made Ground relating to their construction.

3.3.2. Superficial Deposits

Available BGS records indicate that the site is largely underlain by superficial diamicton (boulder clay) deposits of the Lowestoft Formation, which comprise an extensive sheet of chalky till as well as outwash sands and gravels, silts and clays.

A thin strip of land adjacent to the western site boundary is shown to comprise Head (windblown) deposits, comprising clay, silt, sand and gravel deposits.

3.3.3. Bedrock and Structural Features

According to the BGS website, bedrock geology beneath the site comprises sand of the Crag Group, described as 'shallow-water marine and estuarine sands, gravels, silts and clays'. Beneath the Crag Group is the London Clay Formation and the Chalk Group. There are no BGS borehole or trial pit logs available on or within 500m of the site.

There are no significant structural features located on or within 500m of the site.

3.3.4. Local Geological Sites

According to mapping on the Suffolk Biological Records Centre website [6] the site is not located within a Local Geological Site formerly known as Regionally Important Geological or Geomorphological Sites (RIGS).

3.4. Mineral Extraction and Ground Stability

3.4.1. Mining and Natural Cavities

The Envirocheck report [1] indicates that the site is in an area unlikely to be affected by coal mining, and there is no hazard relating to the non-coal mining areas of Great Britain. Given the regional geology, it is unlikely that there will be any coal-bearing strata beneath the site or within the vicinity.

3.4.2. Historical Extractive Activities

The Envirocheck report [1] indicates no historical extractive activities on or within 500m of the site. Furthermore, the Suffolk County Council Minerals Local Plan [7] was reviewed which indicates there are no planned areas of mineral extraction within 500m of the site and the site is not within a Mineral Safeguarding Area.

3.4.3. Ground Stability

The ground stability conditions found at the site, according to the Envirocheck report [1], are listed in Table 3.2.

Table 3.2 Ground stability conditions

Condition	Potential
Collapsible ground stability hazards	Very low
Compressible ground stability hazards	No hazard
Ground dissolution stability hazards	No hazard
Landslide ground stability hazards	Very low
Running sand ground stability hazards	Very low
Shrinking or swelling clay ground stability hazards	Low

3.5. Radon

The Envirocheck report [1] and BRE Radon Guidance [8] states that the site is in a lower probability radon area, as less than 1% of homes are above the action level. Therefore, no radon protective measures are necessary in the construction of new buildings on site (e.g. welfare building).

It should be noted that it is not a requirement to test new non-domestic buildings for radon gas. However, under the Health and Safety at Work Act, the employer has a duty to ensure that the risk to employees from radon is kept within acceptable levels.

3.6. Hydrogeology

According to the MAGIC website [4]. the Head Deposits and Lowestoft Formation (diamicton) superficial deposits underlying the site are classified as a Secondary (Undifferentiated) Aquifer[1].

The Crag Group bedrock underlying the site is classed as a Principal Aquifer[2]. The site does not lie within or adjacent to a groundwater Source Protection Zone (SPZ)[3].

3.6.1. Groundwater Abstractions

The Envirocheck report [1] indicates there have previously been a number of licensed groundwater abstractions within 500m of the site in the sand and gravel, chalk and Crag Group for a variety of uses including agricultural (general) purposes. The closest abstraction point is a well located adjacent to the south-east of the site. The well was used by Yoxford and Darsham farmers for industrial processes. These have now all been revoked.

3.6.2. Groundwater Discharge Consents

The Envirocheck report indicates there are two licensed discharge consents to groundwater within 500m of the site, however it is not clear whether these are currently active. The two discharges have been summarised in Table 3.3.

[1] A Secondary (Undifferentiated) aquifer is designated in cases where it has not been possible to attribute either category Secondary A or Secondary B to a rock type.
[2] Principal Aquifers are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.
[3] Source Protection Zones show the risk of contamination from activities that might cause pollution in the area. The closer the activity, the greater the risk.

Table 3.3 Summary of licensed groundwater discharge consents

Operator	Distance / direction from site	Property type	Discharge type	Dates
A. F. Wilson	13m north	Domestic property (single)	Sewage – final treated effluent	1984 - unknown
D. J. Trower	19m north-east	Domestic property (single)	Sewage – final treated effluent	1985 - unknown

3.7. Hydrology

The Envirocheck report [1] indicates that there is a pond within the eastern section of the site adjacent to Moate Hall. Several other pond features are shown on available online mapping in the grounds of Moate Hall (approximately 40m from the site), Darsham Cottage (approximately 60m from the site) and a larger pond adjacent to the unnamed road to Darsham Old Hall to the south of the A12 which is approximately 340m from the site.

An unnamed watercourse originates in the east of Martins Farm, approximately 275m to the north-west of the site. The watercourse crosses the East Suffolk line to the south of Willow Marsh Lane crossing and flows southwards along the western boundary of the site. The channel crosses back beneath the East Suffolk line to the south of Little Nursery Wood and flows to the west of Darsham railway station and joins the Minsmere River approximately 1.2km south east of the site.

3.7.1. Surface Water Abstractions

The Envirocheck report [1] indicates there are no water abstractions relating to surface water within 500m of the site. In 2016, the Environment Agency website [3] listed the closest surface water abstraction point as being approximately 2.7km south of the site, from the Minsmere River. However, this information is no longer publicly available.

3.7.2. Surface Water Discharge Consents

The Envirocheck report lists five discharge consents to surface waters within 500m of the site. These are summarised in Table 3.4.

Table 3.4 Summary of licensed surface water discharge consents

Operator	Distance / direction from site	Property / discharge type	Receiving water	Dates
Anglian Water Services	470m north-east	Sewerage network discharges (pumping station)	Unknown tributary (of Minsmere River)	1989 – 2010
Anglian Water Services	476m north-east	Sewerage network (pumping station, storm overflow)	Tributary of Minsmere River	2010 – unknown
Dr W. Fishwick	478m south-east	Sewage disposal works (from single domestic property)	Tributary of Minsmere River	2007 – unknown

3.8. Flood Risk

The Environment Agency flood risk map contained within the Envirocheck report [1], and the Environment Agency website [3] indicate that the site is located in Flood Zone 1 and has a low risk of flooding from rivers or the sea.

The majority of the site is also indicated to be at very low risk of flooding from surface water. However, a potential surface water flow route is indicated along the western site boundary. This flow route runs

from north to south and connects to the unnamed watercourse located immediately west of Darsham railway station, before discharging to the Minsmere River to the south.

An area of high surface water flood risk is located at the northern end of the site. It is suggested that the lower topography adjacent to the A12 to the west leads to pooling of surface water during peak flow events.

Smaller isolated areas of low to high surface water flood risk are also located within the site. Analysis of topographic data shows these are a mixture of topographically low points, ridges and furrows associated with existing agricultural land drainage and management. .

3.9. Pollution Incidents to Controlled Waters

The Envirocheck report [1] states that there have been two Category Two (significant) pollution incidents to surface water within 500m of the site. However, these were both dated more than 20 years previously and therefore have not been considered further.

3.10. Substantiated Pollution Incident Register

The Envirocheck report [1] states that there are no substantiated pollution incident register entries within 500m of the site.

3.11. Waste Management Sites

The Envirocheck report [1] confirms that there are none of the following within 500m of the site:

- Historic landfill sites;
- Authorised landfill sites;
- Waste transfer sites;
- Control of Major Accident Hazards Sites (COMAH);
- Explosive Sites;
- Notification of Installations Handling Hazardous Substances (NIHHS);
- Planning Hazardous Substance Consents; or
- Planning Hazardous Substance Enforcements.

3.12. Registered Radioactive Substances

According to the Envirocheck report [1] there are no registered radioactive substances within 500m of the site.

3.13. Fuel Stations

Darsham Service Station is located adjacent to the south-eastern boundary of the site. There are no other fuel stations within 500m of the site according to the Envirocheck report [1] and the Yell website [9].

3.14. Contemporary Trade Directories

The Envirocheck report [1] indicates there is one contemporary trade directory within 500m of the site that has the potential to use contaminants of concern. This is the garage and petrol station adjacent to the south-east of the site, as listed above.

3.15. Sensitive Land Uses

The Envirocheck report and Multi Agency Geographic Information for the Countryside (MAGIC) website [4] were reviewed for the following sensitive statutory and non-statutory designations:

- Areas of Outstanding Natural Beauty (AONB);
- Areas of Special Protection (AoSP) and Special Protection Areas (SPA);
- Country Parks;
- Historic Gardens and Designated Landscapes;
- Local and National Nature Reserves (LNR / NNR);
- National Parks;
- Ramsar Sites;
- Sites of Special Scientific Interest (SSSI);
- Special Areas of Conservation (SAC);
- Sites of Community Interest (SCI); and,
- World Heritage Site.

Sillett's Wood Ancient Woodland County Wildlife Site (CWS) is indicated to be present approximately 300m north-west of the site. The Envirocheck report [1] indicates that the site lies within a surface and groundwater water Nitrate Vulnerable Zone (NVZ)[4]. There are two Grade II listed buildings (Oak Hall and Hill Farmhouse) located approximately 60m and 430m to the north-east of the site.

3.16. Other Relevant Information

3.16.1. Unexploded Ordnance (UXO)

A Zetica UXO map was obtained to assess the risk of encountering UXO at the site. The map indicates that the site is located within an area with a low risk of encountering UXO, and is included as Appendix C.

3.16.2. Land Ownership / Access

The site area does not have any public rights of way, and the land parallel to the railway is assumed to be owned by Network Rail. Access is possible to the various areas of the site with the majority of the land owned by one private landowner.

[4] Nitrate Vulnerable Zone (NVZ) is designated where land drains and contributes to the nitrate found in 'polluted' waters. Polluted waters include:

- Surface or ground waters that contain at least 50mg per litre (mg/l) nitrate
- Surface or ground waters that are likely to contain at least 50mg/l nitrate if no action is taken
- Waters which are eutrophic, or are likely to become eutrophic if no action is taken

A water is eutrophic if it contains levels of nitrogen compounds that cause excessive plant growth resulting in 'an undesirable disturbance to the balance of organisms present in the water and to the quality of the water'.

4. Preliminary Conceptual Site Model (PCSM)

4.1. Approach to PCSM

The PCSM has been developed based on the site description provided in Section 2.1.

Land contamination is assessed through the identification of risk presented by potential contaminant linkages (PCLs), i.e. Source – Pathway – Receptor relationships, and the development of a Conceptual Site Model (CSM). Guidance provided by the Environment Agency in CLR11[5] [10] and the Guiding Principles for Land Contamination (GPLC) documents [11] provide the technical framework for the development of such CSMs and the application of risk assessment (qualitative or quantitative) to consider whether potential pollutant linkages are significant and require appropriate management or mitigation.

The National Policy Statement (NPS) for Energy Infrastructure, accompanied by the NPS for Nuclear Power Generation, does not make specific requirement for Land Quality assessment beyond the requirement to consider the risks posed by land contamination and need for an EIA. Section 4.10 of the NPS EN-01 confirms that issues related to land quality may be subject to separate regulation, and therefore the National Planning Policy Framework (NPPF) [12] has been consulted regarding the need for additional environmental assessment.

The NPPF [12] states that "to prevent unacceptable risks from pollution and land instability, planning policies and decisions should ensure that new development is appropriate for its location. The effects (including cumulative effects) of pollution on health, the natural environment or general amenity, and the potential sensitivity of an area or proposed development to adverse effects from pollution, should be taken into account. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner."

The basis of CLR11 and GPLC1 is the development of the Conceptual Site Model (CSM) which is the representation of the source-pathway-receptor (pollutant) linkages on which the assessment of risk can be based.

The basic approach to the human health and controlled water risk assessment reported here follows the principles given in CLR11 and GPLC1, i.e. application of the following assessment hierarchy:

- Tier 1 risk screening by establishment of potential pollutant linkages, i.e. the preliminary conceptual site model (PCSM).
- Tier 2 generic quantitative assessment using Generic Assessment Criteria (GACs) that represent 'minimal' or 'tolerable' risk.
- Tier 3 quantitative risk assessment using Site Specific Assessment Criteria (SSACs) that represent 'unacceptable risk', or where generic assessment criteria are not available or they are not applicable to the CSM.

At this stage, the following Preliminary Conceptual Site Model (PCSM) has been developed using the proposed scheme details and desk study information summarised in the preceding sections of this report, i.e. a Tier 1 assessment.

4.2. Risk Estimation

Through consideration of the potential consequence and likelihood of exposure occurring, a potential risk rating for each PCL has been assigned and is presented in Table 4.5. The purpose of this assessment is to focus upon the potential risks present based on the proposed development, with no mitigation measures. The definitions of estimated risk are taken from CIRIA report C552 [13] and have been summarised in Table 4.1 below.

[5] It is noted that CLR11 is due to be withdrawn in December 2019 and replaced by updated online guidance: Environment agency (June 2019) Land contamination: Risk Management (LCRM).

Table 4.1 Definitions of estimate risk

Risk Level	Definition
Very High Risk	There is a high probability that severe harm could arise to a designated receptor or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not already undertaken) is required and remedial works may be necessary in the short term and are likely over the long term.
Medium Risk	It is possible that harm could arise to a designated receptor. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long term.
Low Risk	It is possible that harm could arise to a designated receptor, but it is likely that this harm, if realised, would be mild. Further investigation is not necessarily required, however should be considered to confirm that there is no unanticipated contamination present.
Very Low Risk	The possibility of harm to the designated receptor is either not plausible or, if the possibility of harm is plausible, risk is considered to be very unlikely with attenuation along the exposure pathway. Further investigation is not necessarily required, however may be considered to confirm that there is no unanticipated contamination present.

The risk is evaluated through the probability matrix presented in Table 4.2. The definitions of probability and consequence are given in Appendix D.

Table 4.2 Estimation of the level of risk by comparison of consequence and probability

Probability (Likelihood)	Consequence: Severe	Medium	Mild	Minor
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

4.3. Preliminary Conceptual Site Model (PCSM)

Based upon the historical and present land uses identified in the Envirocheck report [1], historical mapping and other desk study sources, a PCSM has been produced, identifying potential sources of contamination, migration or exposure pathways and receptors for the site. A worst-case scenario has been adopted in the preparation of this PCSM, i.e. all likely potential sources, exposure or migration pathways and sensitive receptors have been assumed to be present.

The following sections are described in terms of the potential source – pathway – receptor PCLs, which are defined by interpretation of the information contained within this desk study and the details of the proposed development, correct at the time of writing (July 2019).

4.3.1. Potential Contaminants

The potential sources of contamination and associated groups of potential contaminants of concern have been identified from the desk-based review of information, and are outlined in Table 4.3 below. The list of activities and contaminants of concern in the table below should not be considered exhaustive and provides a guide to the likely range of contaminants which may be present at or around the site.

Table 4.3 Summary of potential on-site and off-site sources of contamination

	Activity / Feature	Potential Contaminants
On-site	Made Ground associated with the construction of the A12 and Willow Marsh Lane.	A range of inorganic and organic contaminants including polycyclic aromatic hydrocarbons (PAHs), coal tars, asbestos and ground gases.. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates.
	Farmland within site boundary. Potential for unmapped farmers tips.	Contamination risk from herbicides, pesticides, silage, effluent, and fuel/engine oils. Risk of inorganic and organic contamination including metals and hydrocarbons, polychlorinated biphenyls (PCBs), asbestos, etc.
Off-site	Darsham Service Station adjacent to the south-eastern boundary.	Inorganic and organic contaminants including petroleum, petrol additives, diesel, oils / lubricants.
	Darsham Station adjacent to southern boundary and the East Suffolk Line (railway) adjacent to the north-western and south-western boundary.	A range of inorganic and organic contaminants including hydrocarbons, PAHs, PCBs, metals; and ash and fill used in the construction of the railway including the potential for asbestos.
	Granaries located adjacent to the south-eastern boundary of the site	Risk of inorganic and organic contamination including metals and hydrocarbons, asbestos, etc.
	White House Farm adjacent to the eastern boundary.	Contamination risk from herbicides, pesticides, silage, effluent, and fuel/engine oils. Risk of inorganic and organic contamination including metals and hydrocarbons, polychlorinated biphenyls (PCBs), asbestos, etc.

4.3.2. Potential Receptors

This section details potential receptors which are relevant to the current site use and may be relevant to the construction and operation of the site. Following the removal of the park and ride and reinstatement of the site, receptors will revert back to the current site use. Potential receptors are outlined in Table 4.4.

Table 4.4 Summary of potential receptors

Receptor Groups	Current site use	Proposed Park & Ride Use
Human health (on-site)	Farmers and workers on agricultural land	Construction / maintenance workers
	Users of Willow Marsh Lane	Users of the new park and ride site
Human health (off-site)	Residents in adjacent properties / users of and workers in adjacent commercial premises / commuters	Residents in adjacent properties / users of and workers in adjacent commercial premises / commuters
	Pedestrians accessing surrounding roads	Pedestrians accessing surrounding roads
	Farmers and workers on agricultural land	Farmers and workers on agricultural land
Controlled water	Groundwater in Principal bedrock aquifer and Secondary Undifferentiated Superficial aquifer	Groundwater in Principal bedrock aquifer and Secondary Undifferentiated Superficial aquifer

Receptor Groups	Current site use	Proposed Park & Ride Use
	Pond within the east of the site adjacent to Moate Hall and unnamed watercourse along west of site (retained during construction and operation).	Pond within the east of the site adjacent to Moate Hall (retained during construction and operation).
	Drain and ponds within 500m of the site	Drain, surface watercourses and ponds within 500m of the site
Property	Existing on-site and off-site services and structures (including listed buildings)	Existing on-site and off-site services and structures (including listed buildings)
	-	Proposed on-site services and structures
	Crops and livestock (on- and off-site)	Crops and livestock (off-site)
Ecological	Sillet's Ancient Woodland CWS (off-site)	Sillet's Ancient Woodland CWS (off-site)

4.3.3. Potential Migration / Exposure Pathways

This section details the potential migration or exposure pathways between the sources of contamination and receptors identified above. For a pollutant linkage to exist between the contaminant sources identified and the potential receptors, a pathway must exist.

Potential Human Exposure Pathways:

Potential exposure pathways to the identified on-site human receptors include:

- Dermal contact with and ingestion of contaminants in soils, soil-derived dusts and water; and
- Inhalation of soil derived dust, fibres and gas/vapours.

The potential exposure pathways to the identified off-site human receptors include:

- Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off site; and
- Inhalation of soil derived dust, fibres and gas/vapours which may have migrated off site.

Potential Controlled Waters Exposure Pathways:

- Leaching of contaminants in soil to groundwater in underlying aquifer;
- Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifer;
- Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow; and
- Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.

Potential Property Exposure Pathways:

- Direct contact of contaminants in soil and/or groundwater with buried services;
- Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata; and
- Migration of contaminated waters/dust/fibres and subsequent uptake by crops or ingestion/inhalation/dermal contact by livestock.

Potential Ecological Exposure Pathways:

- Migration of contaminated waters/dust/fibres and subsequent uptake by flora or ingestion/ inhalation/dermal contact by fauna.

4.3.4. PCSM and Underpinning Assessment Assumptions

Table 4.5 presents the key information included in the PCSM prepared for the site in its current undeveloped state (baseline), and also for future scenarios (construction and operation). A post-operation (removal and reinstatement) scenario is considered to be the same as the baseline as the site will be returned to its original land use. The assessment has been undertaken using the following assumptions:

- The site has been developed as described in Section 2.1; and
- Construction has been carried out in accordance with appropriate Health and Safety and environmental protection requirements.

Table 4.5 Preliminary Conceptual Site Model

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
ON-SITE: Made Ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. *A range of inorganic and organic contaminants including the potential for asbestos. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates.* Farmland within site boundary. Potential for unmapped farmers tips: *Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.*	**Human health:** On-site	Farmers and workers on agricultural land	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas/vapours.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--
		Construction / maintenance workers		Receptor not present	--	--	Unlikely[6]	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Users of Willow Marsh Lane		Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Users of the new park and ride		Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
	Human health: Off-site	Residents in adjacent properties / users of adjacent commercial premises / commuters	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil, soil-derived dust, fibres and gas/vapour which may have migrated off-site.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Pedestrians accessing surrounding roads		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Farmers and workers on agricultural land		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Controlled Waters	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Pond and unnamed watercourse on-site	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	**Very low risk**	Low likelihood	Mild	**Low Risk**	Unlikely	Mild	**Very low risk**
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	**Very low risk**	Low likelihood	Mild	**Low Risk**	Unlikely	Mild	**Very low risk**
		Drain and ponds within 500m of the site	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	**Very low risk**	Unlikely	Minor	**Very low risk**	Unlikely	Minor	**Very low risk**
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Unlikely	Minor	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Minor	**Very low risk**
	Property / services	Existing on-site and off-site services and structures (including listed buildings)	Direct contact of contaminants in soil and/or groundwater with buried services.	Unlikely	Minor	**Very low risk**	Unlikely	Minor	**Very low risk**	Unlikely	Minor	**Very low risk**
			Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
			Direct contact of contaminants in soil and/or groundwater with buried services.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Minor	**Very low risk**

[6] It has been assumed that all construction workers will adhere to site working practices, including use of appropriate PPE

Source	Receptor		Contaminant exposure / migration pathway	Baseline			Construction			Operation		
				Probability	Consequence	Risk Category	Probability	Consequence	Risk Category	Probability	Consequence	Risk Category
		Proposed on-site services and structures	Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Crops and livestock (on-site)	Migration of contaminated waters/dust/fibres and subsequent uptake by crops or ingestion/inhalation/dermal contact by livestock.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--
		Crops and livestock (off-site)		Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
	Ecological Receptor	Sillett's Wood Ancient CWS Woodland (off site)	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Unlikely	Mild	**Very low risk**	Low likelihood	Mild	**Low Risk**	Unlikely	Mild	**Very low risk**
OFF-SITE: Darsham service station adjacent to the south east *Potential contaminants include petroleum, petrol additives, diesel, oils / lubricants.* Darsham Station, adjacent to southern boundary and the railway line adjacent to the north-western and south-western boundary. *A range of organic contaminants including hydrocarbons, PCBs, PAHs, solvents and creosote; metals; and ash, fill and possibly asbestos used in the construction of the railway.* Granaries located adjacent to the south-eastern boundary of the site *Inorganic and organic contamination including metals and hydrocarbons, asbestos, etc.* White House Farm adjacent to the eastern boundary *Fuels, oils and pesticides associated with various farming practices.*	**Human health:** On-site	Farmers and workers on agricultural land	Dermal contact with and/or ingestion of contaminants in windblown soil-derived dusts and water that may have migrated onto site. Inhalation of contaminants in soil, soil-derived dust, fibres and vapours which may have migrated onto site.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--
		Construction / maintenance workers		Receptor not present	--	--	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Users of Willow Marsh Lane		Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Users of the new park and ride		Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
	Controlled waters	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**	Unlikely	Medium	**Low Risk**
		Pond and unnamed watercourse on-site	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	**Very low risk**	Low likelihood	Mild	**Low Risk**	Unlikely	Mild	**Very low risk**
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	**Very low risk**	Low likelihood	Mild	**Low Risk**	Unlikely	Mild	**Very low risk**
	Property / services	Existing on-site services and structures (including listed buildings)	Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**	Unlikely	Mild	**Very low risk**
		Future on-site services and structures	Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present	--	--	Receptor not present	--	--	Unlikely	Mild	**Very low risk**
		Crops and livestock (on-site)	Migration of contaminated waters/dust/fibres and subsequent uptake by crops or ingestion/inhalation/dermal contact by livestock.	Unlikely	Mild	**Very low risk**	Receptor not present	--	--	Receptor not present	--	--

5. Summary and Conclusions

5.1. Data Gaps

A limitation to the identification and assessment of PCLs in this report is the absence of intrusive ground investigation data. This would give specific, localised information regarding the conditions of the underlying ground and would enable a more accurate identification of risk to human health and controlled waters.

5.2. Conclusions

The site area is currently open fields that appear to be used for agricultural purposes. There was no visual or olfactory evidence of contamination noted on the site during the site visit. On site sources are considered to be limited and comprise the Made Ground from the existing roads and the potential for unidentified farmers tips. Off-site sources of potential contamination were identified including Darsham Service Station, Darsham Railway Station, the East Suffolk Line railway, granaries and White House Farm.

Risks to human health without mitigation measures are considered to be very low, based on the findings of the desk study. Risks to controlled waters (groundwater and pond on site) and ecological receptors during construction were considered to be low. The Principal Aquifer beneath the site raised the overall risk rating for groundwater but was considered to have a medium consequence if affected by contamination due to the absence of a SPZ. Risks to property (buildings, crops, and livestock) and services were generally assessed as being very low, given the unlikely and mild consequence of these receptors being affected.

It has been assumed that during construction site workers will wear appropriate PPE and employ standard site management and mitigation procedures in order to protect receptors from exposure to / mobilisation of contaminants. On the basis of the risk classifications for the various receptors, the following recommendations for further investigation are considered appropriate:

Table 5.1 Recommendations

Receptor		Highest risk classification	Recommended actions / further assessment
Human health (on-site)	Farmers and workers on agricultural land	Very low risk	Specific intrusive investigation is not likely to be required for contamination purposes. However, the low potential for contamination should be confirmed through limited sampling and chemical analysis as part of a geotechnical ground investigation.
	Construction / maintenance workers	Very low risk	
	Users of Willow Marsh Lane	Very low risk	
	Users of the new park and ride site	Very low risk	
Human health (off-site)	Residents in adjacent properties / users of adjacent commercial premises	Very low risk	
	Pedestrians accessing surrounding roads	Very low risk	
	Farmers and workers on agricultural land	Very low risk	

Receptor		Highest risk classification	Recommended actions / further assessment
Controlled Waters	Groundwater in Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer	Low risk	Given the sensitivity of the receptors, it would be appropriate to ensure that the proposed works will not adversely affect groundwater through mobilisation of contamination or creation of preferential migration pathways. Subject to details of proposed construction works, this could be through limited intrusive ground investigation and chemical analysis to establish whether there is a source of contamination present.
	Pond and unnamed watercourse on-site	Low risk	
	Drain and ponds within 500m of the site	Very low risk	
Property	Existing on-site and off-site services (including listed buildings)	Very low risk	Specific intrusive investigation is not likely to be required for contamination purposes. However, the low potential for contamination should be confirmed through limited sampling and chemical analysis as part of a geotechnical ground investigation.
	Future on-site services and structures	Very low risk	
	Crops and livestock (on-site and off-site)	Very low risk	
Ecological	Sillett's Wood Ancient Woodland CWS (off site)	Low risk	

6. References

[1] Landmark Group, “Envirocheck Report 40176294_1_1,” 2012.

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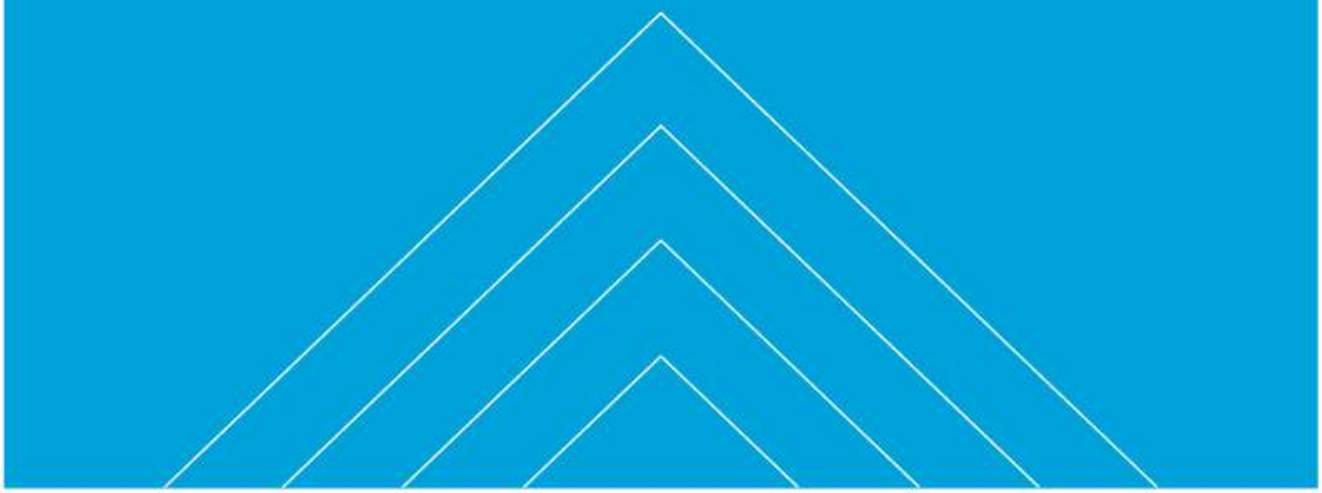
Appendices



Appendix A. Drawings and Figures

Please Note: The Desk Study Report completed in July 2019 is based on the red line boundary available at that date. Final red line boundaries have been issued in January 2020, however, these changes do not integrally change the conclusions and recommendations of this report.

Sizewell C Project
Darsham Park and Ride

Legend

Red Line Boundary

Drawing Title:
Phase 1 Desk Study
Red Line Boundary

Client:

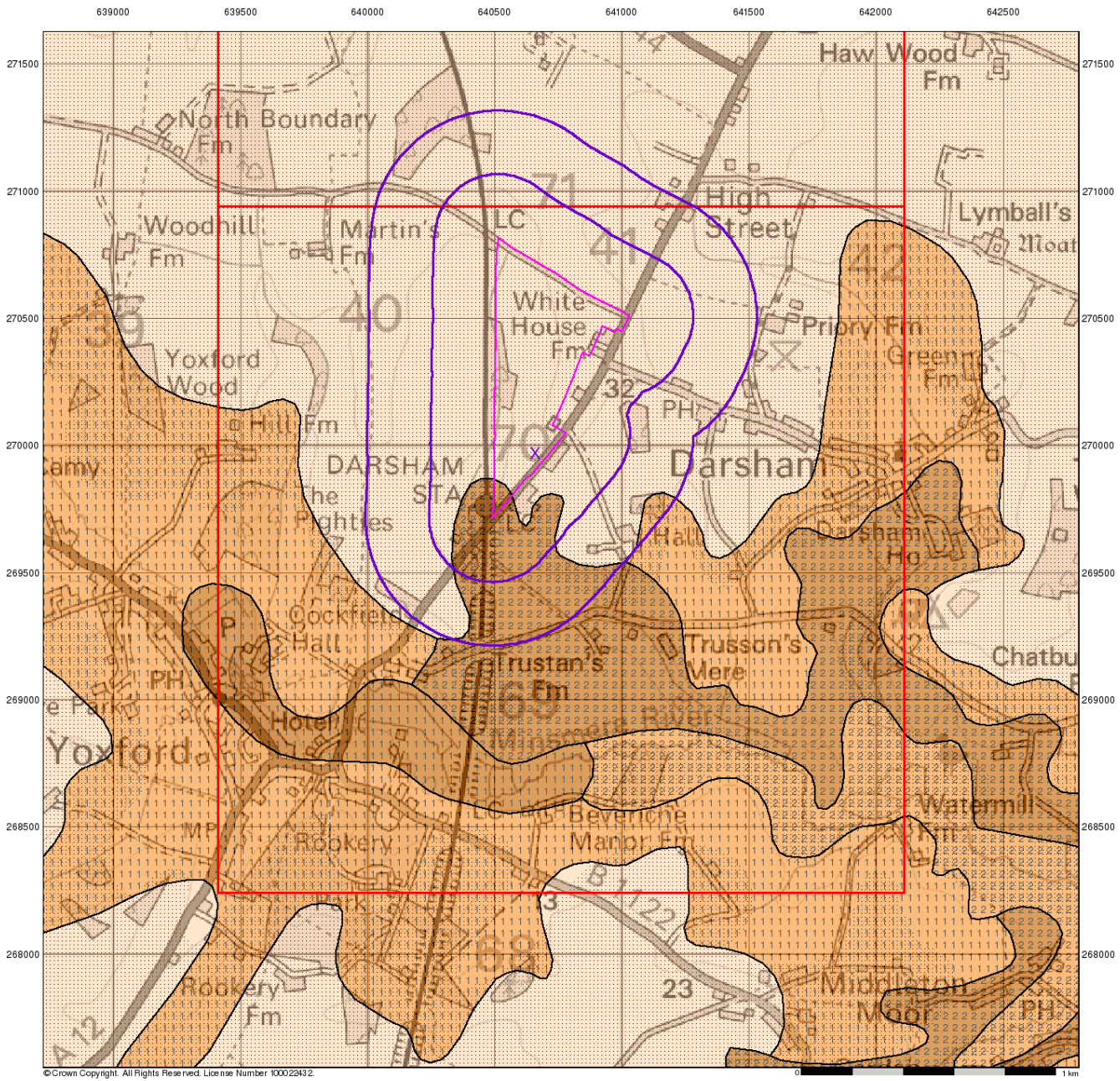
EDF ENERGY

ATKINS

Status:	Purpose of issue:	Rev:	Model File Identifier:	
S1	For Information	0		
Reference: Figure 1		Drawn: SRH 22/08/2018	Checked: JA 22/08/2018	Authorised: JA 22/08/2018

The Axis, 10 Holliday Street, Birmingham, B11TF
www.atkinsglobal.com

Appendix B. Envirocheck Report



Groundwater Vulnerability

General

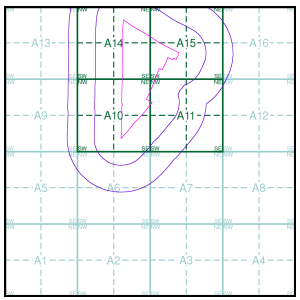
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



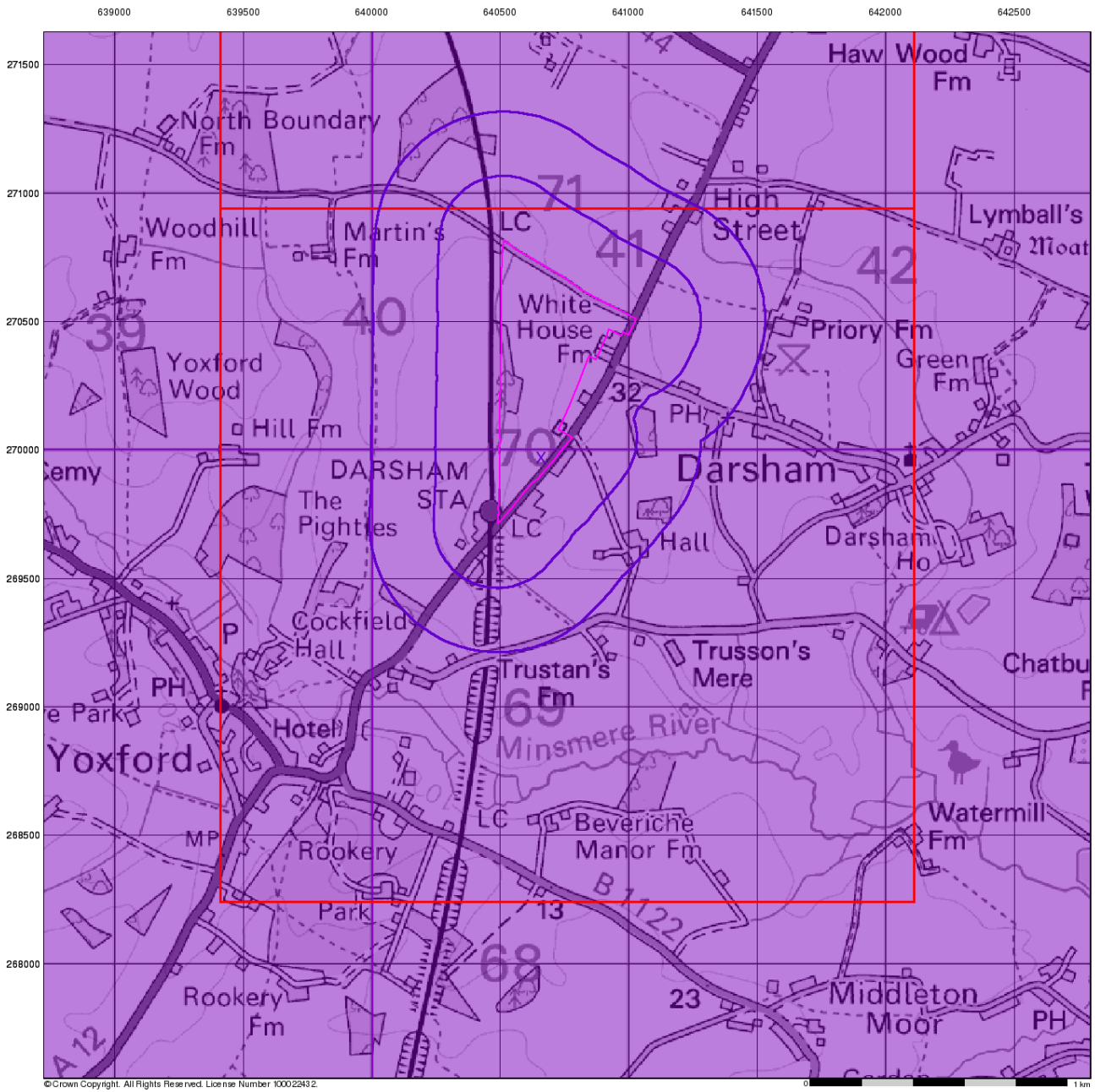
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



Bedrock Aquifer Designation

General

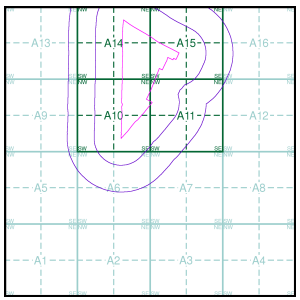
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



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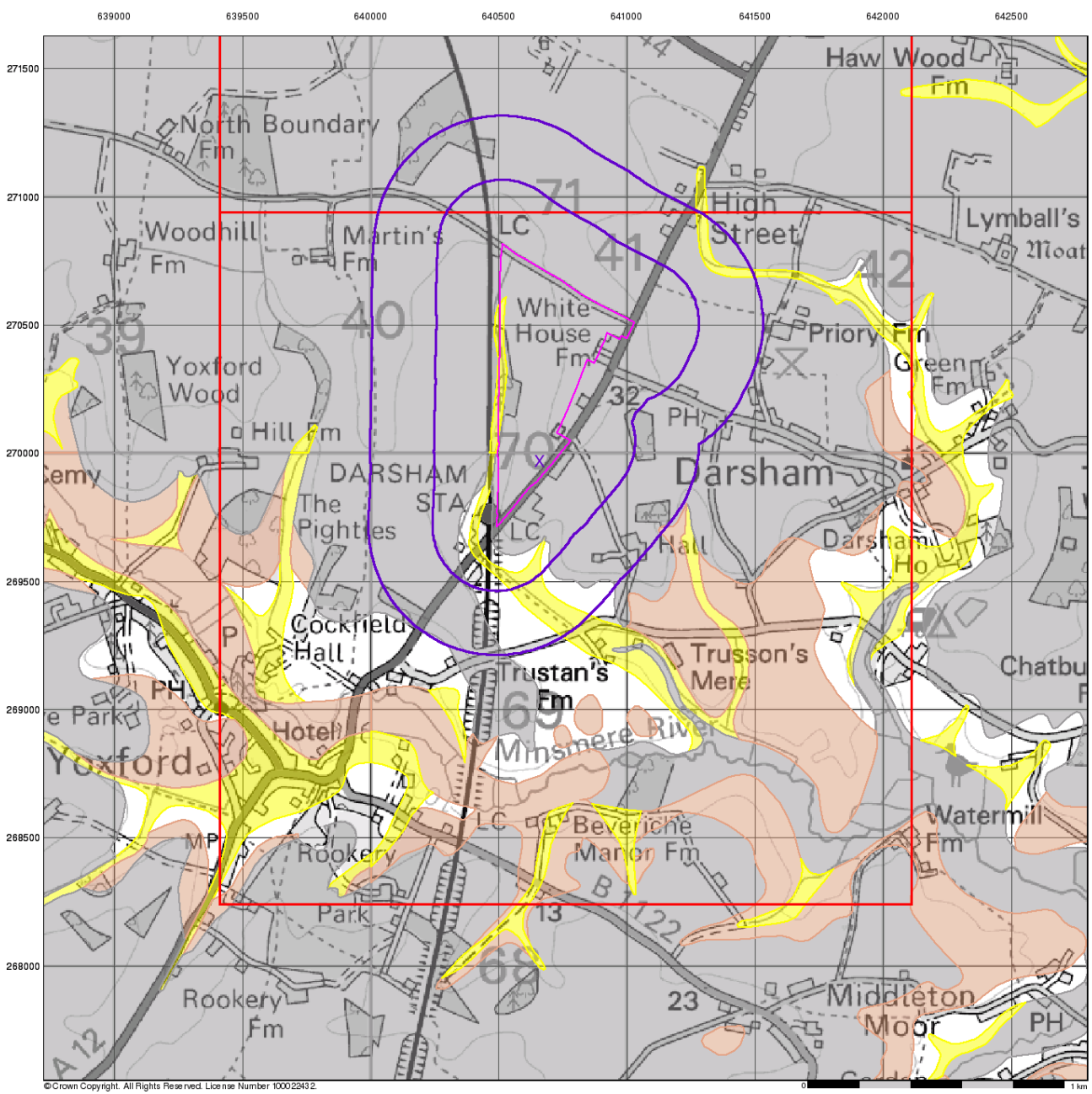


Superficial Aquifer Designation

General

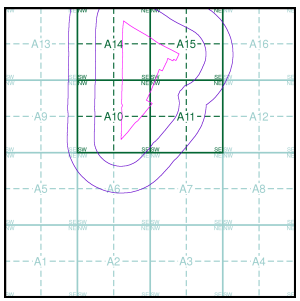
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



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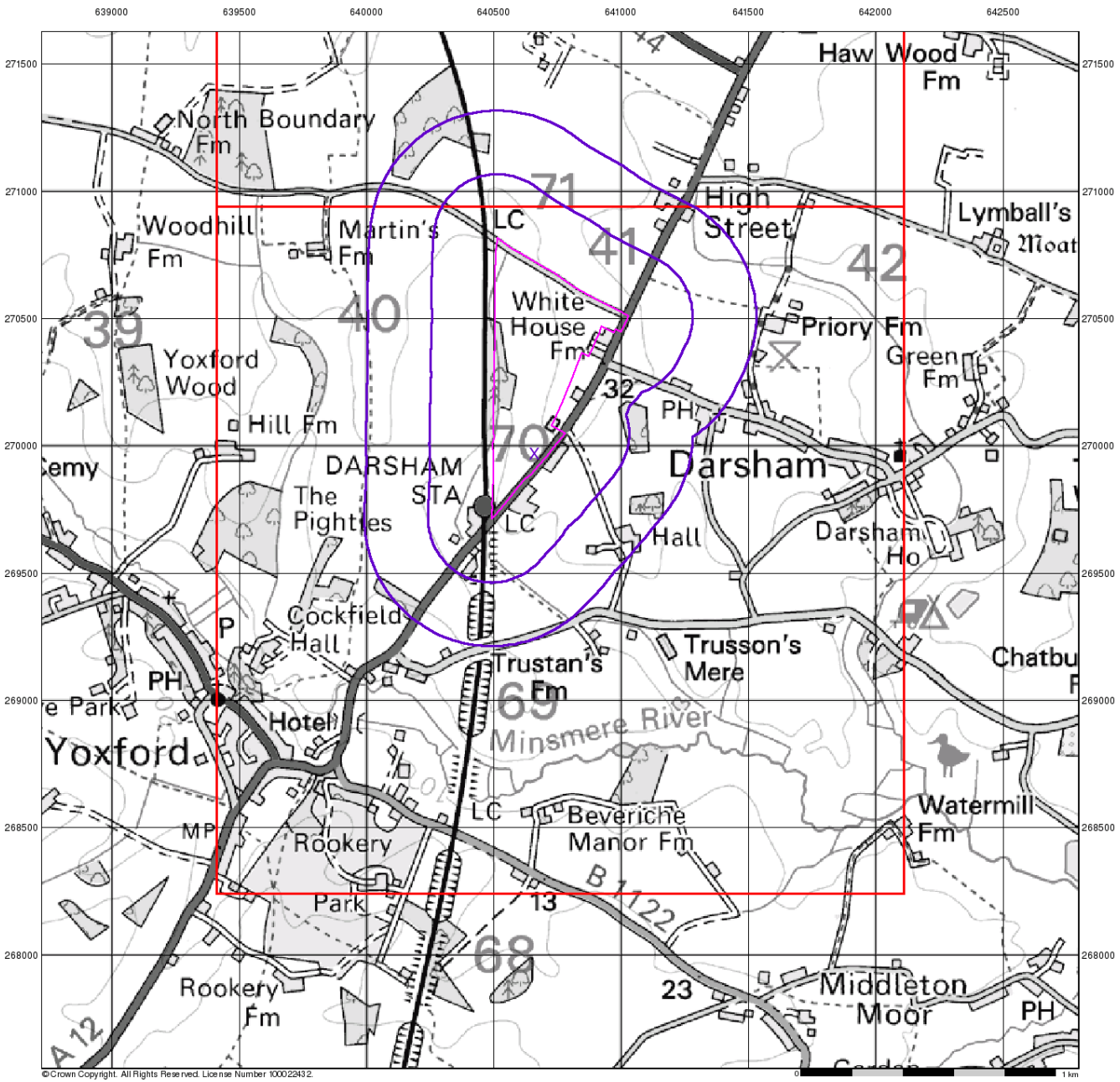


Source Protection Zones

General

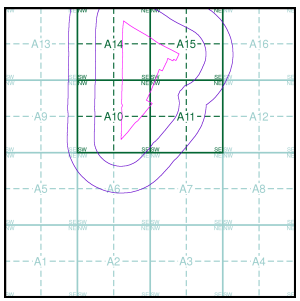
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



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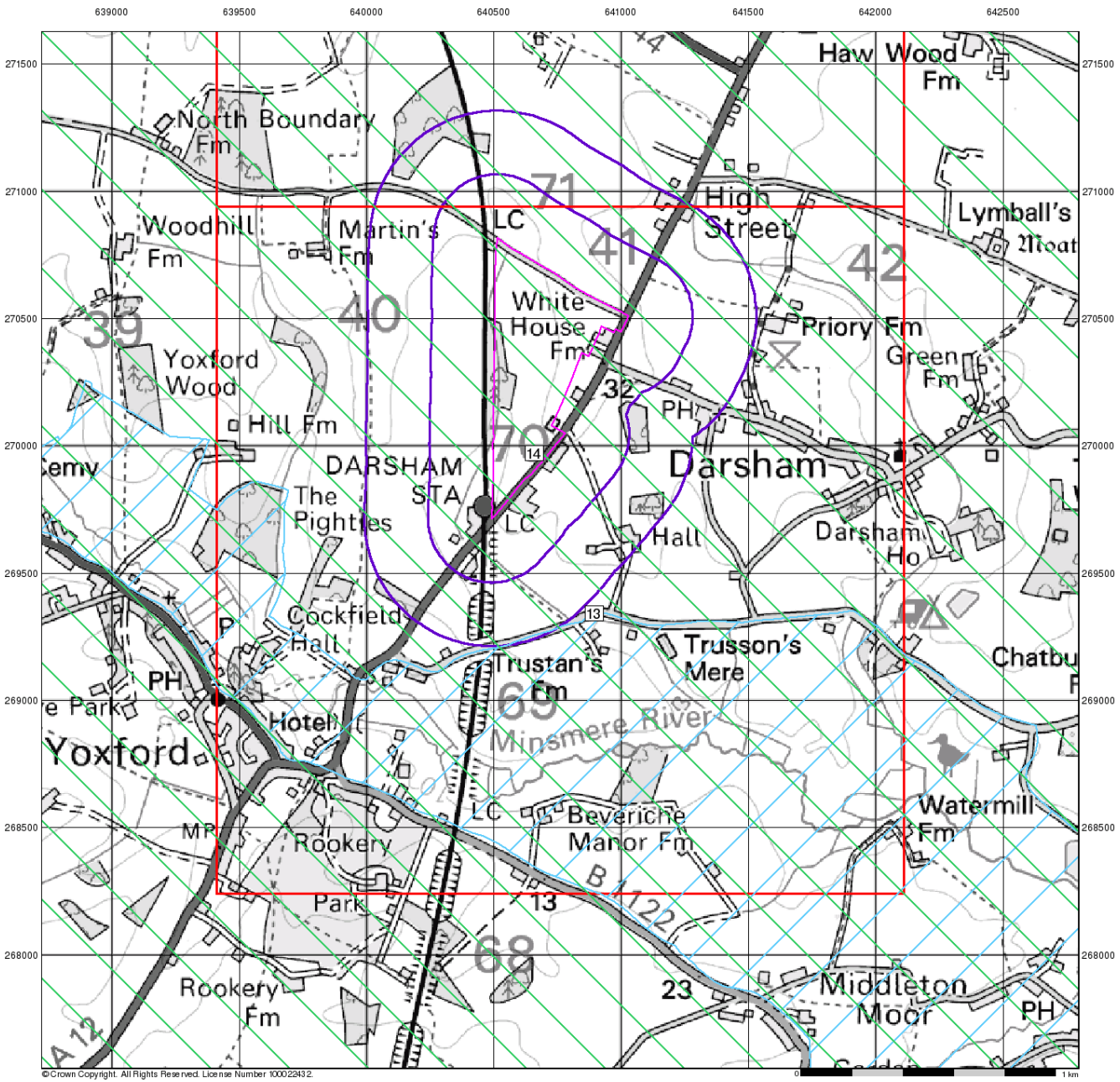


amec

Sensitive Land Uses

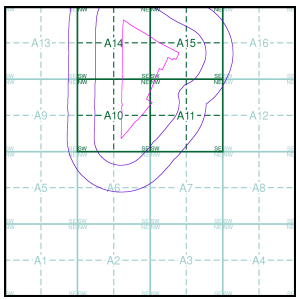
General

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

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



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Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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Landmark Information Group
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Datasheet

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40176294_1_1

Customer Reference:
32623

National Grid Reference:
640660, 269970

Slice:
A

Site Area (Ha):
27.98

Search Buffer (m):
500

Site Details:

PRN1 Darsham Station
Darsham
Suffolk

Client Details:

Miss D Shankar
AMEC Environment & Infrastructure UK Ltd
Unit 1, Long Barn
Village Road
Nercwys
Mold
Flintshire
CH7 4EW

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency 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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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1		2	5
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	
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 2	Yes		
Pollution Incidents to Controlled Waters	pg 2		2	
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 3		2	1 (*6)
Water Industry Act Referrals				
Groundwater Vulnerability	pg 5	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
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				
Geological				
BGS 1:625,000 Solid Geology	pg 8	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 8	Yes	Yes	Yes
BGS Recorded Mineral Sites				
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 10	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 11	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
Industrial Land Use				
Contemporary Trade Directory Entries	pg 12		3	(*1)
Fuel Station Entries	pg 12		1	

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas	pg 13			1
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 13	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Arthur Francis Wilson Property Type: Domestic Property (Single) Location: Willow Marsh Cottage Willow Marsh Lane, Darsham, Suffolk, Ip17 3qg Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Pr4nf1034x Permit Version: 1 Effective Date: 12th June 1984 Issued Date: 12th June 1984 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Trib Minsmere River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14NE (N)	13	1	640500 270800
2	**Discharge Consents** Operator: David John Trower Property Type: Domestic Property (Single) Location: Moat Hall Main Road, Darsham, Suffolk, Ip17 3pp Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Pr4nf264 Permit Version: 1 Effective Date: 3rd October 1985 Issued Date: 3rd October 1985 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Trib River Yox **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A10NE (NE)	19	1	640755 270084
3	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Darsham Ps Green Gables Ps, High Street, Darsham, Saxmundham, Suffolk, Ip17 3qq Authority: Environment Agency, Anglian Region Catchment Area: Minsmere River (Leiston) Reference: Aw4nf1829 Permit Version: 1 Effective Date: 21st February 1989 Issued Date: 21st February 1989 Revocation Date: 2nd December 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unknown Trib. **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A15NE (NE)	470	1	641290 270900
3	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: High Street, Darsham Authority: Environment Agency, Anglian Region Catchment Area: Minsmere River (Leiston) Reference: Asenf2379 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Trib Minsmere River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A15NE (NE)	476	1	641300 270900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: High Street, Darsham Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Asenf2379 Permit Version: 1 Effective Date: 2nd January 1990 Issued Date: 2nd January 1990 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Trib Minsmere River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A15NE (NE)	476	1	641300 270900
4	**Discharge Consents** Operator: Dr William George Fishwick Property Type: Sewage Disposal Works - Other Location: Old Hall Barn Westleton Road, Darsham, Saxmundham, Suffolk, Ip17 3pb Authority: Environment Agency, Anglian Region Catchment Area: River Ore / River Alde / River Fromus Reference: Prenf21013 Permit Version: 1 Effective Date: 10th December 2007 Issued Date: 10th December 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of The River Yox **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	A7NW (SE)	478	1	641013 269580
4	**Discharge Consents** Operator: M B Padfield Property Type: Domestic Property (Single) Location: Old Hall Farm Darsham, Saxmundham, Suffolk, Ip17 3pr Authority: Environment Agency, Anglian Region Catchment Area: Minsmere River (Leiston) Reference: Pr4nf1073x Permit Version: 1 Effective Date: 19th September 1984 Issued Date: 19th September 1984 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Minsmere River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A11SW (SE)	478	1	641027 269597
5	**Local Authority Pollution Prevention and Controls** Name: Smith & Wesby (Sax) Ltd Location: Main A12, Darsham, SAXMUNDHAM, Suffolk, IP17 3PW Authority: Suffolk Coastal District Council, Environmental Health Department Permit Reference: EPA62 Dated: 24th March 2003 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A10SE (SW)	9	2	640594 269821
	Nearest Surface Water Feature	A10NE (N)	0	-	640700 270087
6	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Ipswich District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: River Wang Incident Date: 6th August 1993 Incident Reference: 1748 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SE (N)	6	1	640500 270500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Pumping Station Location: Ipswich District Authority: Environment Agency, Anglian Region Pollutant: Crude Sewage Note: Tributary Of River Yox Incident Date: 25th August 1994 Incident Reference: 2115 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A11NW (E)	225	1	641001 270001
8	**Water Abstractions** Operator: Yoxford & Darsham Farmers Licence Number: 7/35/03/*g/042 Permit Version: Not Supplied Location: Well Near Darsham Rail Station, DARSHAM Authority: Environment Agency, Anglian Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 0 Yearly Rate (m3): 2000 Details: E chalk; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (S)	42	1	640590 269760
9	**Water Abstractions** Operator: Adnams & Co Ltd Licence Number: 7/35/03/*g/041 Permit Version: Not Supplied Location: Well At Stradbroke Arms, DARSHAM Authority: Environment Agency, Anglian Region Abstraction: Private Water Undertaking Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1 Yearly Rate (m3): 5000 Details: Glacial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (SW)	152	1	640390 269600
10	**Water Abstractions** Operator: Mr A W Hadingham Licence Number: 7/35/03/*g/013 Permit Version: Not Supplied Location: Well At Hall Farm, DARSHAM Authority: Environment Agency, Anglian Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 3 Yearly Rate (m3): 9100 Details: Crag; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (SE)	461	1	641050 269650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: L J Whiting Licence Number: 7/35/03/*g/016 Permit Version: Not Supplied Location: Well At Martins Farm, YOXFORD Authority: Environment Agency, Anglian Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 0 Yearly Rate (m3): 1300 Details: E chalk; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	780	1	639730 270800
	Water Abstractions Operator: The Trustees Of Trusson'S Mere Licence Number: 7/35/03/*G/0076 Permit Version: 101 Location: Well At Darsham Authority: Environment Agency, Anglian 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th March 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	805	1	641200 269300
	Water Abstractions Operator: D J Prutton Licence Number: 7/35/03/*G/0076 Permit Version: 100 Location: Well At Darsham Authority: Environment Agency, Anglian 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: Crag; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	805	1	641200 269300
	Water Abstractions Operator: R & W Thickitt Licence Number: 7/35/03/*S/0050 Permit Version: 102 Location: Minsmere R At Trustans Fm,Dars Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Trustans Farm, Darsham, Suffolk Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 8th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (S)	966	1	640340 268760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Trustees Of Trusson'S Mere Licence Number: 7/35/03/*S/0050 Permit Version: 101 Location: Minsmere R At Trustans Fm,Dars Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 5th March 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (S)	966	1	640340 268760
	Water Abstractions Operator: D J Prutton Licence Number: 7/35/03/*S/0050 Permit Version: 100 Location: Minsmere R At Trustans Fm,Dars Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 1st April 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2NW (S)	966	1	640340 268760
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 33 East Suffolk Scale: 1:100,000	A10NE (W)	0	1	640659 269970
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H2) - Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 33 East Suffolk Scale: 1:100,000	A10SE (S)	0	1	640698 269803
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 33 East Suffolk Scale: 1:100,000	A10NE (W)	0	1	640659 269970
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	A10NE (W)	0	3	640659 269970
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	A10NE (N)	0	3	640659 270001
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A10NE (W)	0	3	640659 269970
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A10NE (N)	0	3	640659 270001
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A10NE (W)	0	3	640489 270001
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Suffolk County Council - Has supplied landfill data		0	7	640659 269970
	Local Authority Landfill Coverage Name: Suffolk Coastal District Council - Had landfill data but passed it to the relevant environment agency		0	2	640659 269970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Norwich Crag, Red Crag and Chillesford Clay	A10NE (W)	0	3	640659 269970
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (E)	0	4	641000 270000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (N)	0	4	640659 270000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (W)	0	4	640659 269970
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10NE (W)	0	4	640487 270000
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10NE (W)	10	4	640486 269986
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10SE (SW)	19	4	640469 269864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (W)	34	4	640463 269998
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10SE (SW)	53	4	640445 269877
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10SE (S)	177	4	640678 269656
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (E)	225	4	641000 269970
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A15NE (NE)	353	4	641304 270730
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NE (NE)	395	4	641360 270733

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A11SE (SE)	484	4	641126 269705
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	A6NW (SW)	490	4	640249 269288
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (W)	492	4	640000 269970
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (W)	497	4	640000 270000
	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	A10NE (N)	0	3	640659 270001
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	0	3	640659 270001
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970
	Potential for Ground Dissolution Stability Hazards No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	0	3	640659 270001
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	0	3	640659 270001
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	16	3	640471 269865
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	50	3	640447 269878
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	177	3	640680 269657
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	0	3	640659 270001
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640489 270001
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	8	3	640488 269985
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	16	3	640471 269865
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	31	3	640465 269998
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	50	3	640447 269878
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	177	3	640680 269657
	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	A10NE (N)	0	3	640659 270001
	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	A10NE (W)	0	3	640659 269970
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	0	3	640659 270001
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	640659 269970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Contemporary Trade Directory Entries** Name: A E Kerridge & Sons Ltd Location: Station Garage, Main Road, Darsham, Saxmundham, Suffolk, IP17 3PW Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10SE (S)	33	-	640611 269803
11	**Contemporary Trade Directory Entries** Name: Darsham Tyre Exhaust Centre Location: Station Garage, Main Road, Darsham, Saxmundham, Suffolk, IP17 3PW Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (S)	33	-	640611 269803
11	**Contemporary Trade Directory Entries** Name: Darsham Location: Darsham Service Station,Main Rd, Darsham, Saxmundham, Suffolk, IP17 3PW Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A10SE (S)	33	-	640610 269802
	Contemporary Trade Directory Entries Name: Arthur J Davey Location: Coal Yard, Thurtells Corner, Yoxford, Saxmundham, Suffolk, IP17 3LB Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	679	-	640106 269155
12	**Fuel Station Entries** Name: Darsham Service Station Location: Darsham Service Station, Main Road, Darsham, Saxmundham, Suffolk, IP17 3PW Brand: Jet Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A10SE (S)	31	-	640609 269805

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Environmentally Sensitive Areas** Name: Suffolk River Valleys Multiple Areas: Y Total Area (m2): 18431673.02 Source: Natural England	A7NW (S)	489	5	640894 269342
14	**Nitrate Vulnerable Zones** Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A10NE (W)	0	6	640659 269970

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Suffolk Coastal District Council - Environmental Health Department	September 2011	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	April 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	June 2012	Quarterly
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	April 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Local Authority Pollution Prevention and Controls Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	June 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	June 2012	Monthly
Registered Radioactive Substances Environment Agency - Anglian Region	April 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Water Abstractions Environment Agency - Anglian Region	April 2012	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	April 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	April 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	May 2012	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	May 2012	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	May 2012	Quarterly
Flood Defences		
Environment Agency - Head Office	May 2012	Quarterly
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	January 2012	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Local Authority Landfill Coverage		
Suffolk Coastal District Council - Environmental Health Department	May 2000	Not Applicable
Suffolk County Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Suffolk Coastal District Council - Environmental Health Department	May 2000	Not Applicable
Suffolk County Council	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites		
Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Suffolk Coastal District Council	December 2011	Annual Rolling Update
Suffolk County Council - Environment and Transport	February 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
Suffolk Coastal District Council	December 2011	Annual Rolling Update
Suffolk County Council - Environment and Transport	February 2006	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	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	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	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	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	February 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	February 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	February 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	February 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2012	Bi-Annually
Special Areas of Conservation Natural England	February 2012	Bi-Annually
Special Protection Areas Natural England	February 2012	Bi-Annually

Data Suppliers

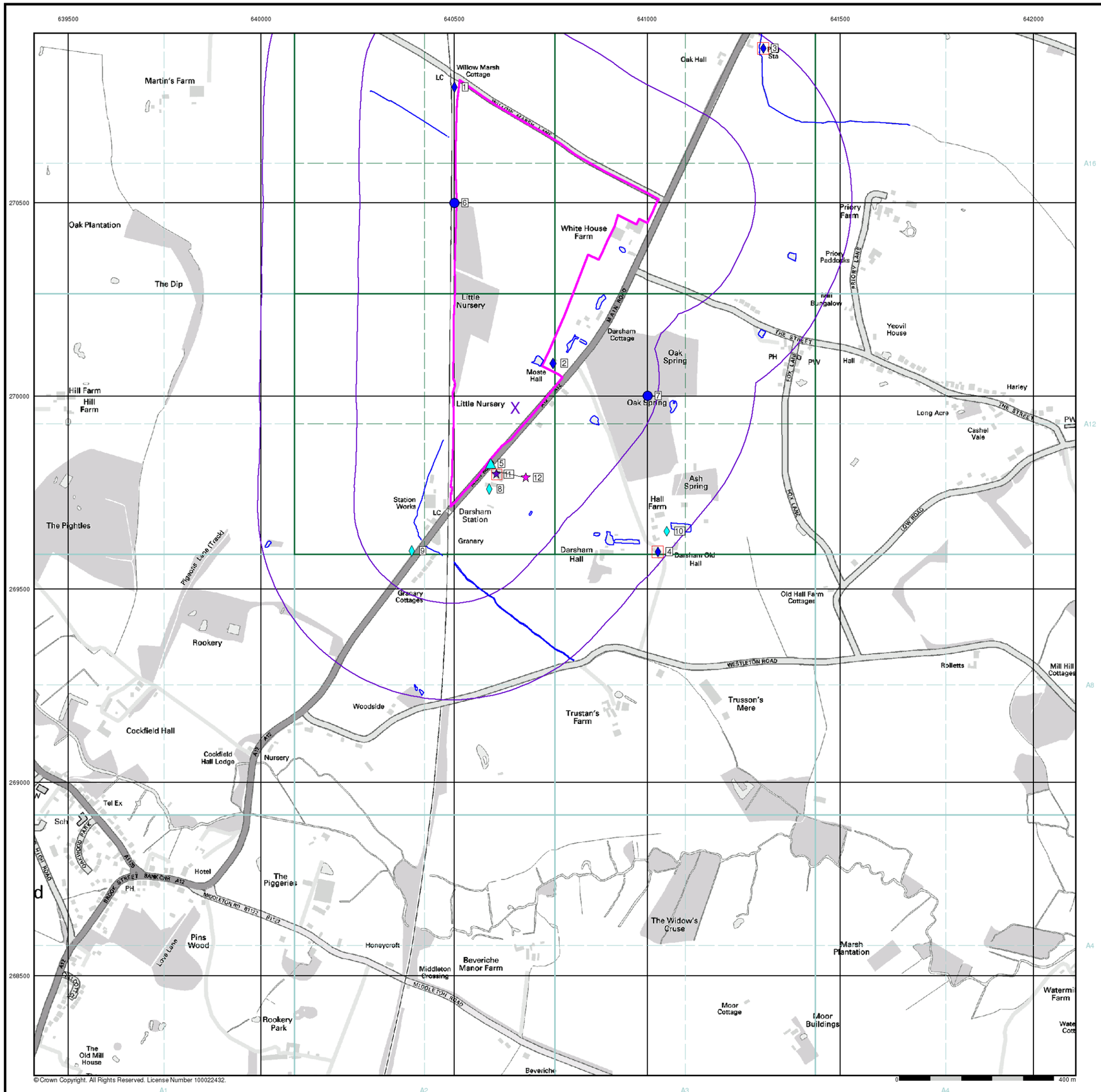
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Suffolk Coastal District Council - Environmental Health Department** Council Offices, Melton Hill, Woodbridge, Suffolk, IP12 1AU	Telephone: 01394 383789 extn 2238 Fax: 01394 385100 Website: www.suffolkcoastal.gov.uk
3	**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
4	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
5	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	**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
7	**Suffolk County Council** St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ	Telephone: 01473 583000 Fax: 01473 230240 Website: www.suffolkcc.gov.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



amec

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

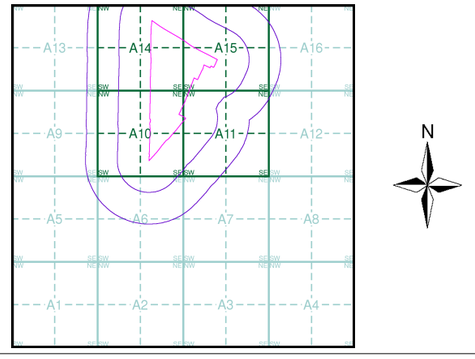
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

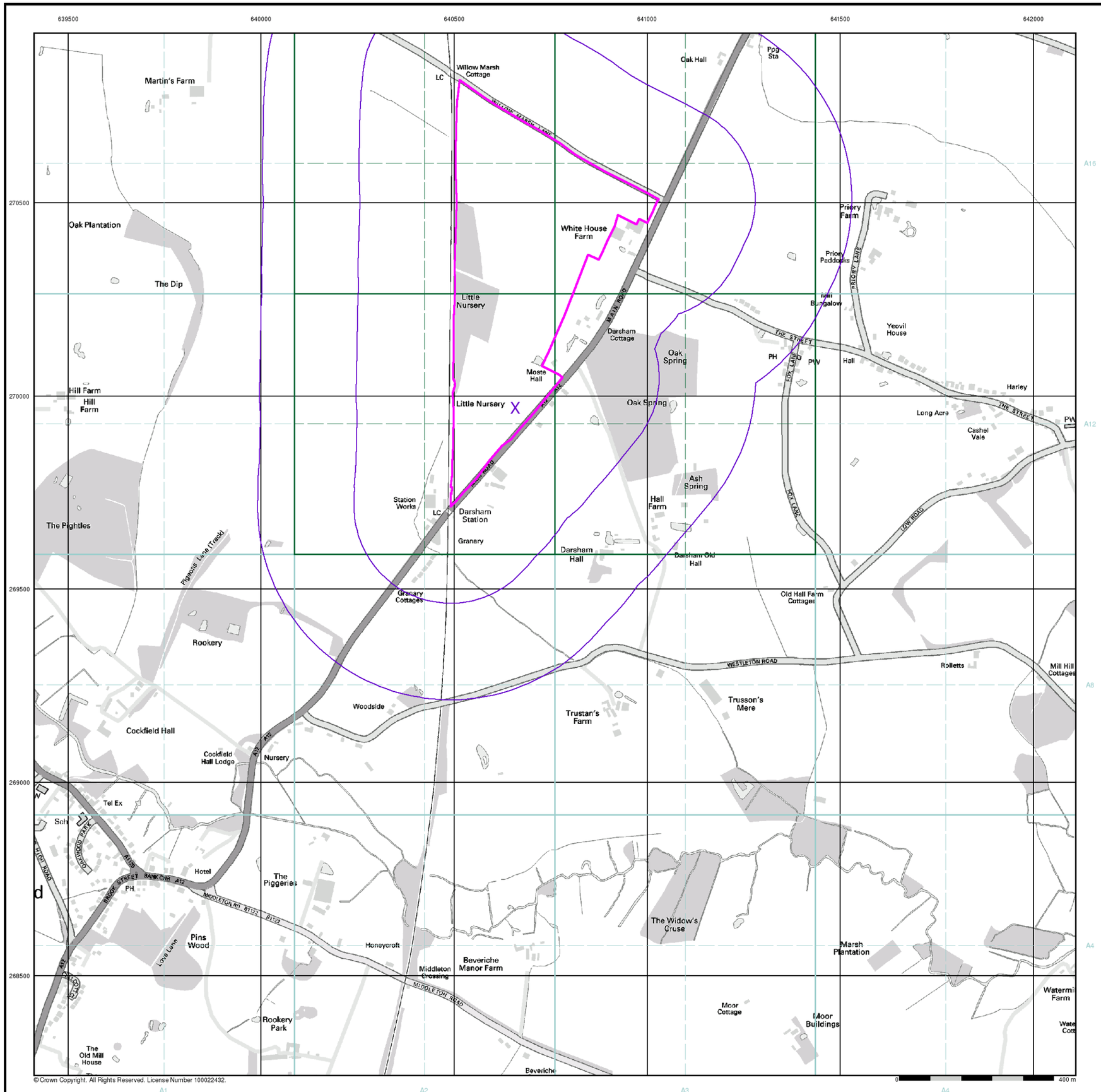
Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

Landmark® Information Group

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



amec

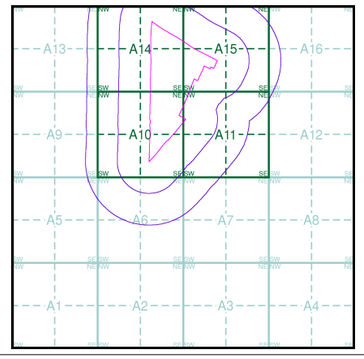
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



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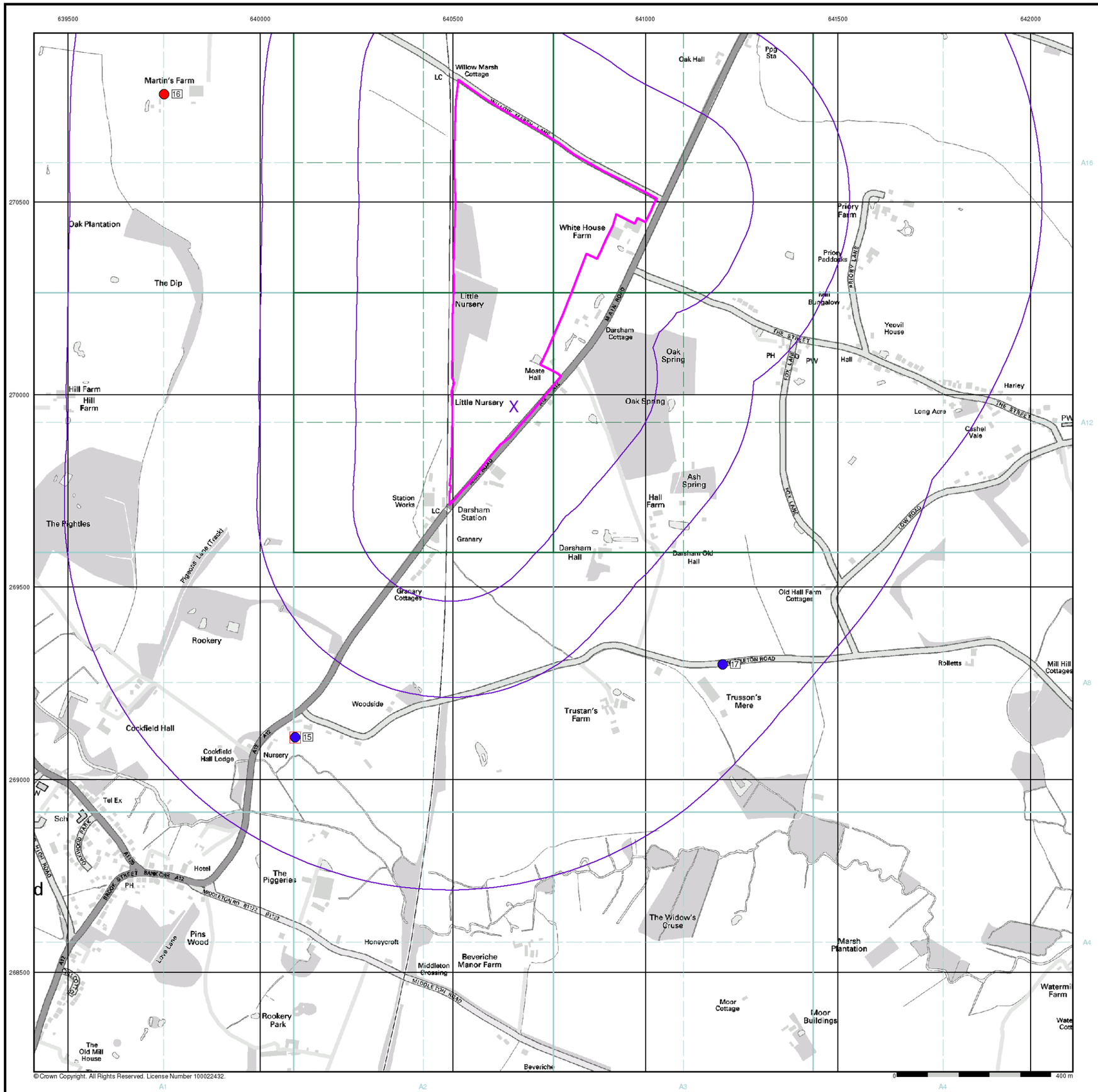


General

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

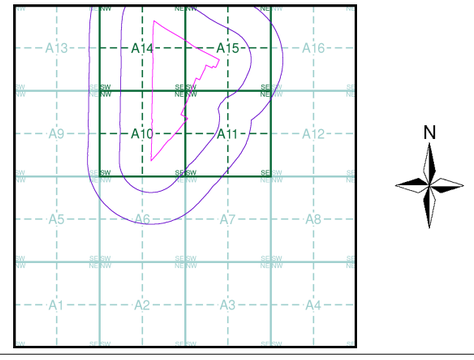
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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Landmark Information Group
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Web: www.envirocheck.co.uk

General

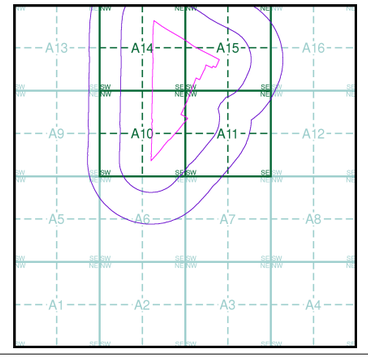
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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General

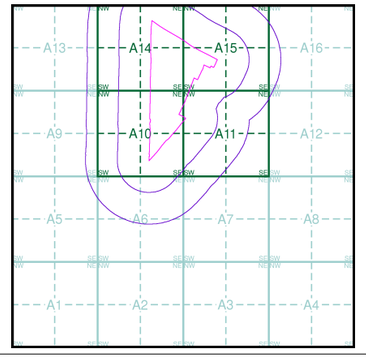
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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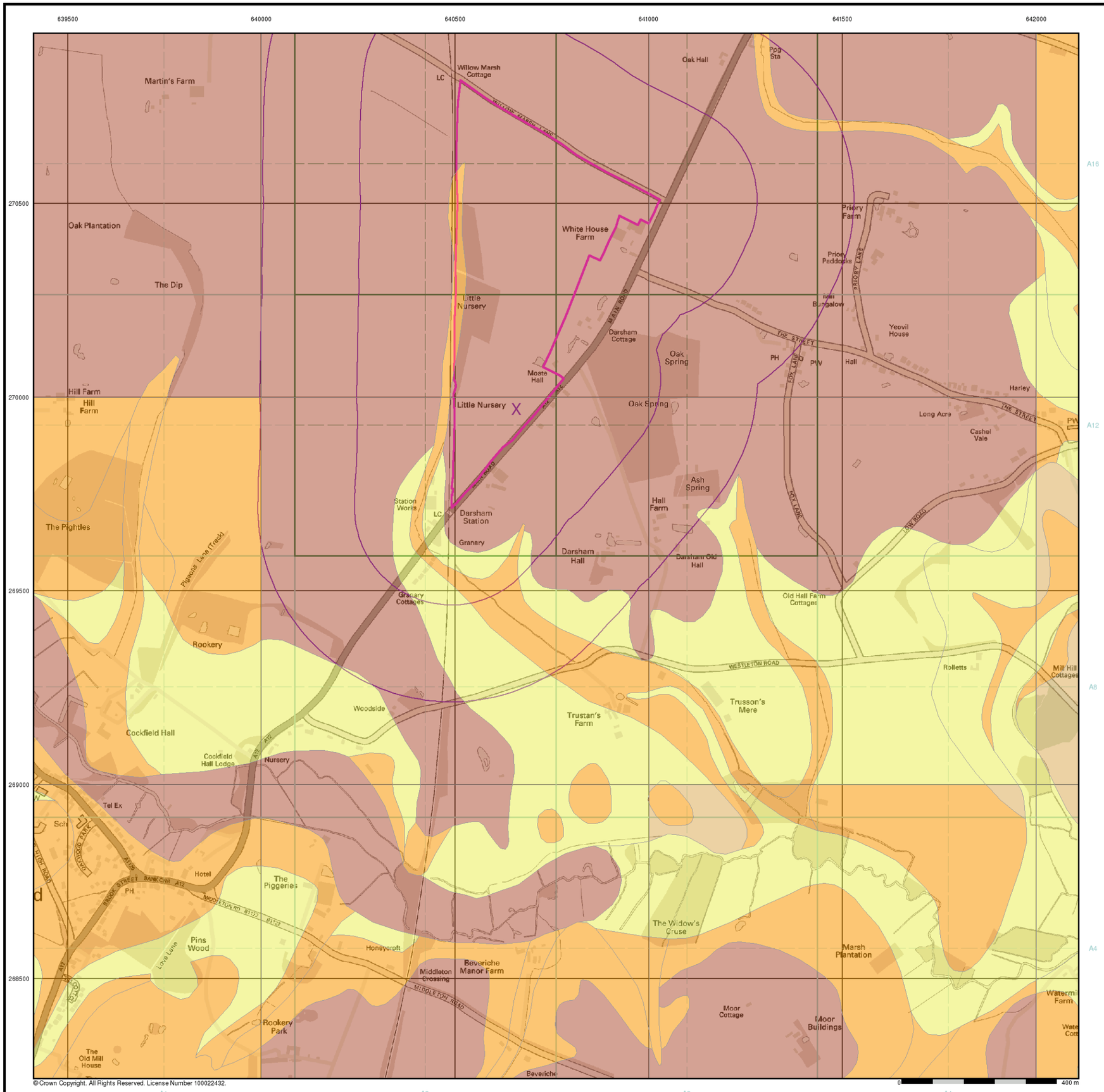


General

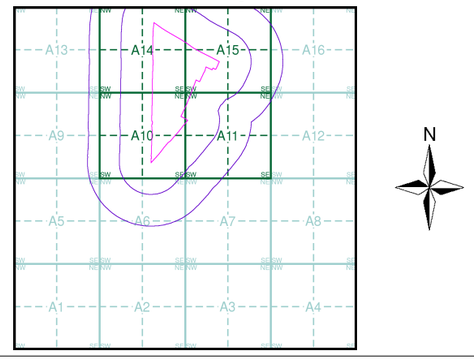
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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Web: www.envirocheck.co.uk

General

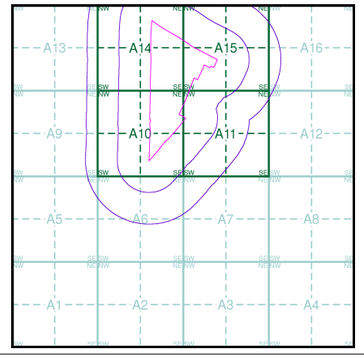
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

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Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
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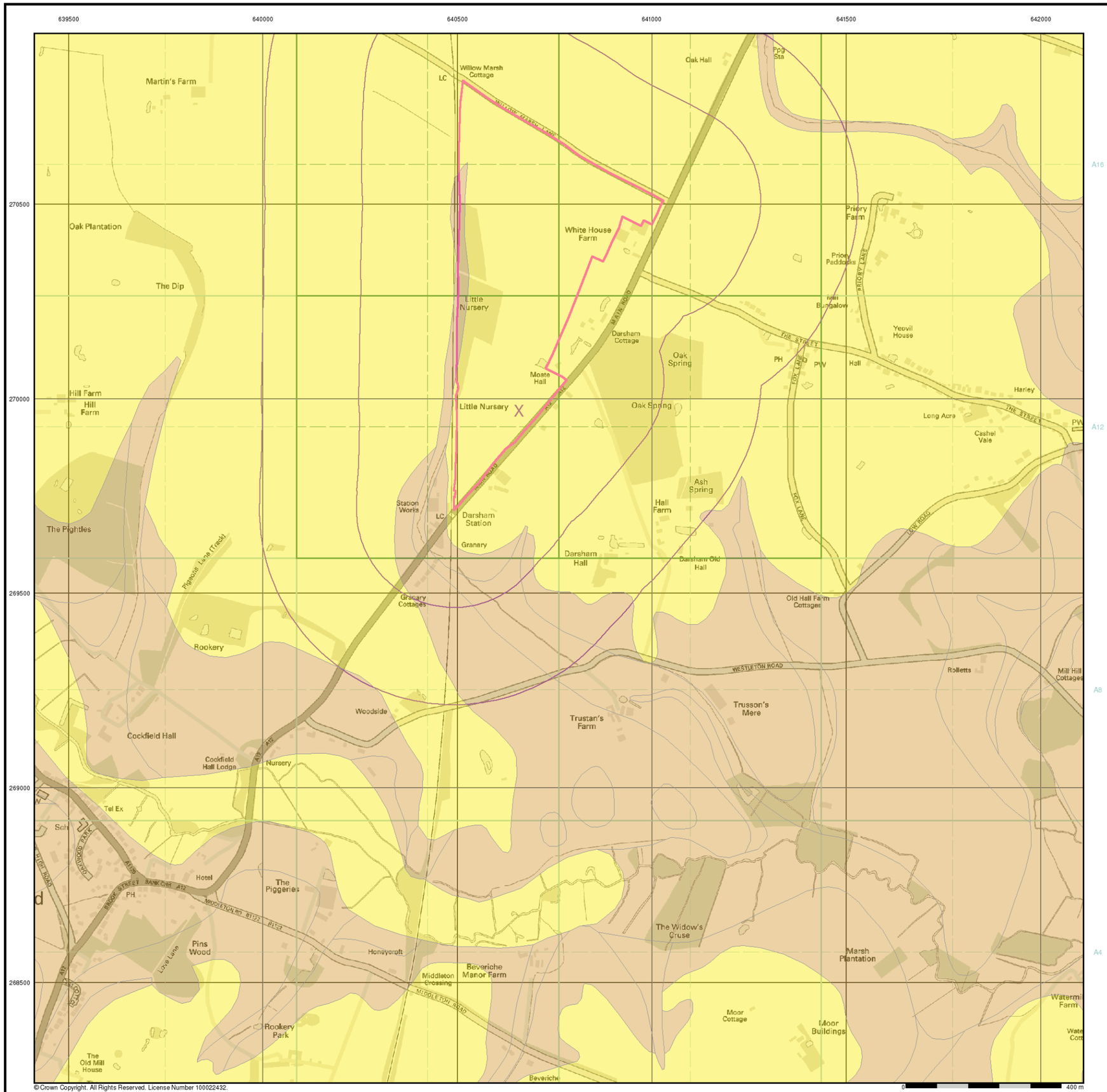


General

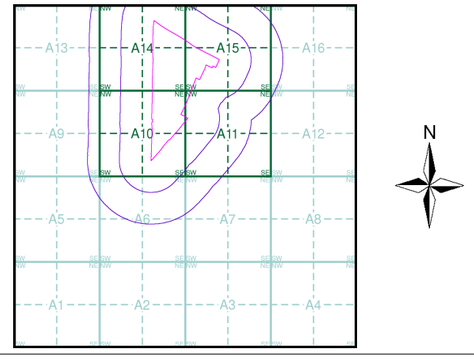
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



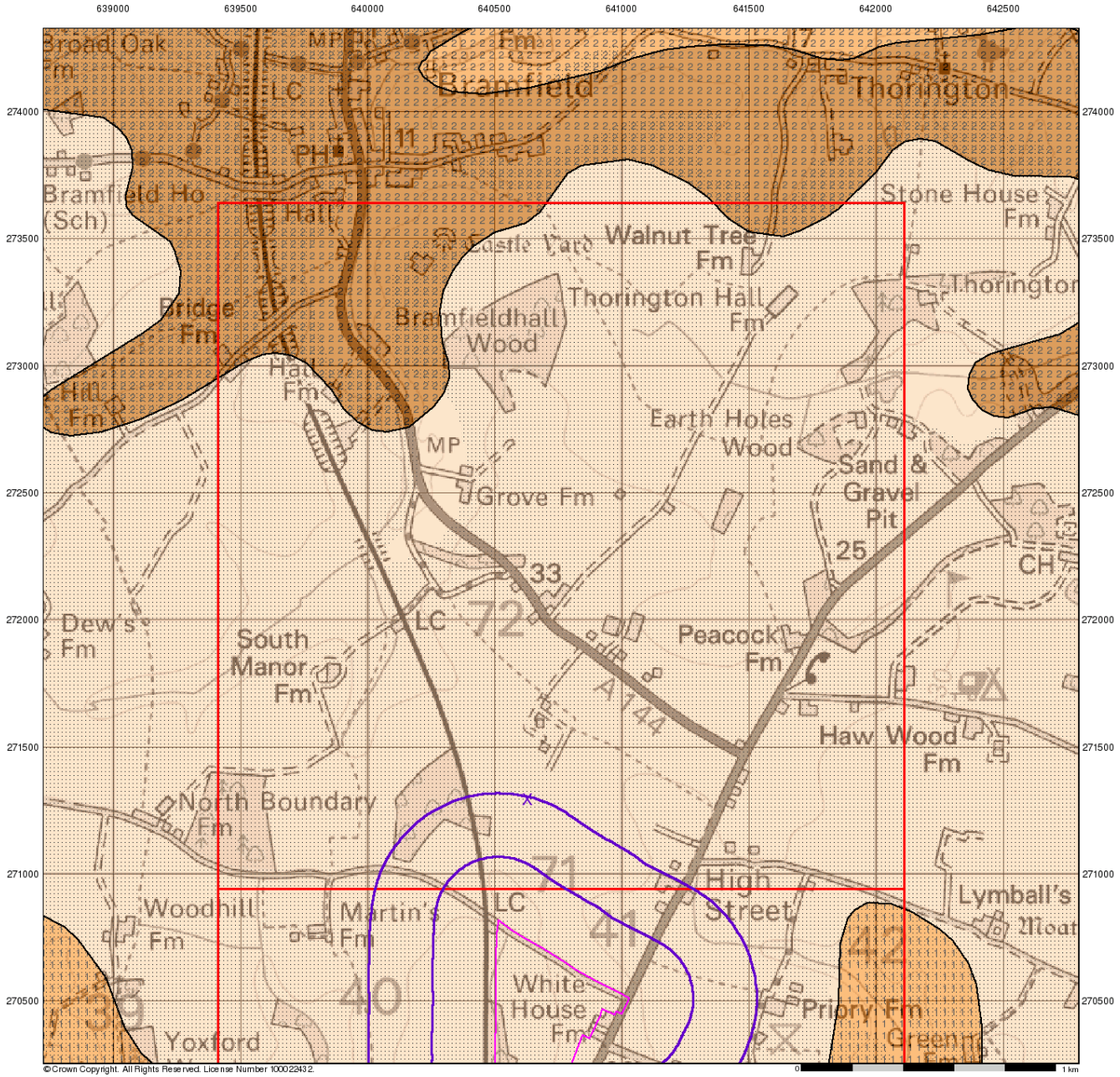
Order Details

Order Details:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



amec

Groundwater Vulnerability

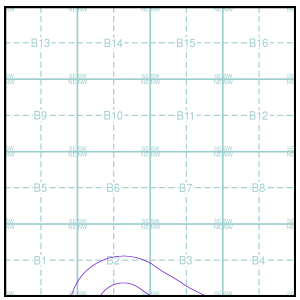
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice B



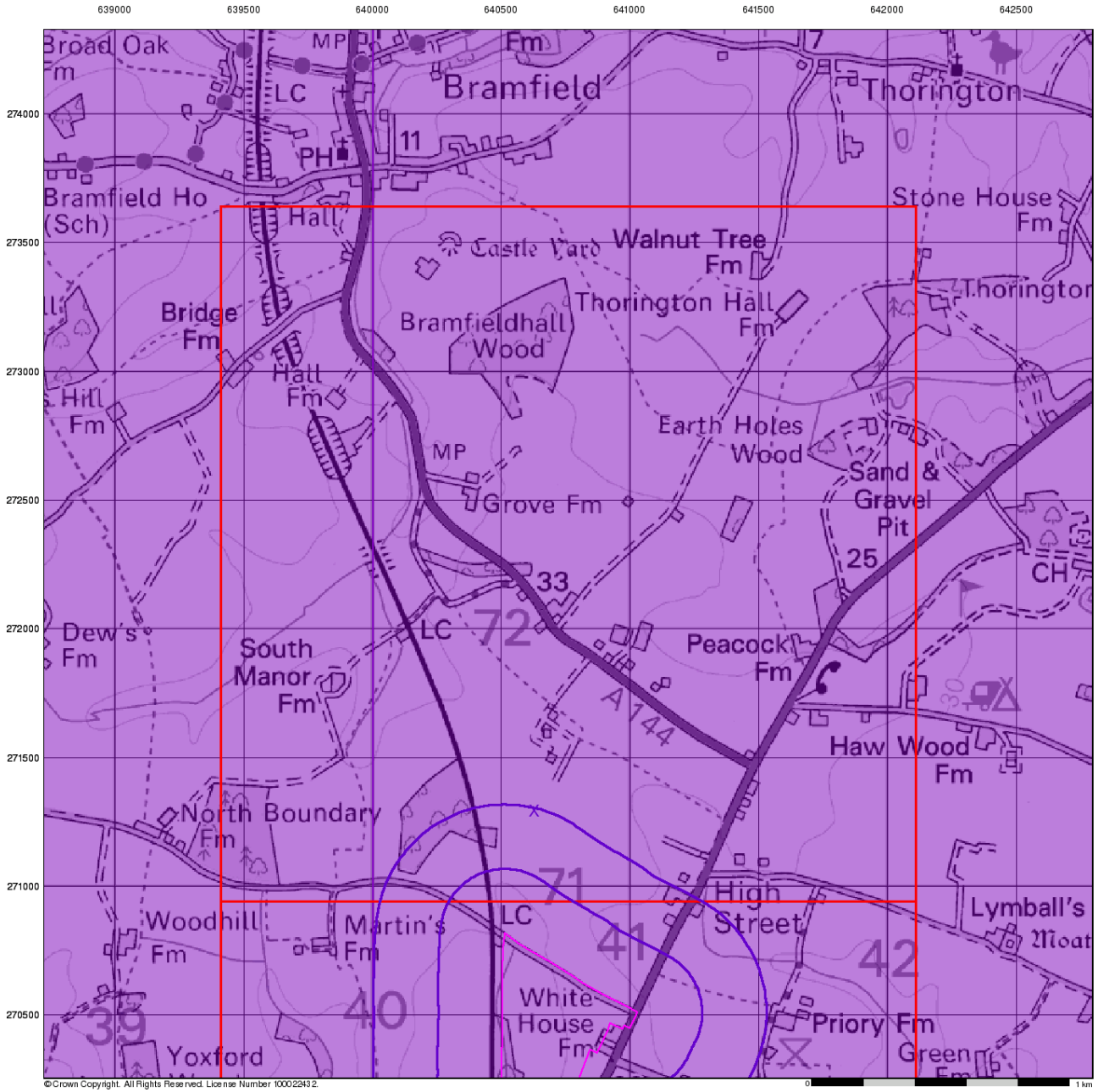
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



Bedrock Aquifer Designation

General

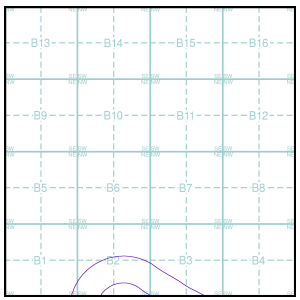
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice B



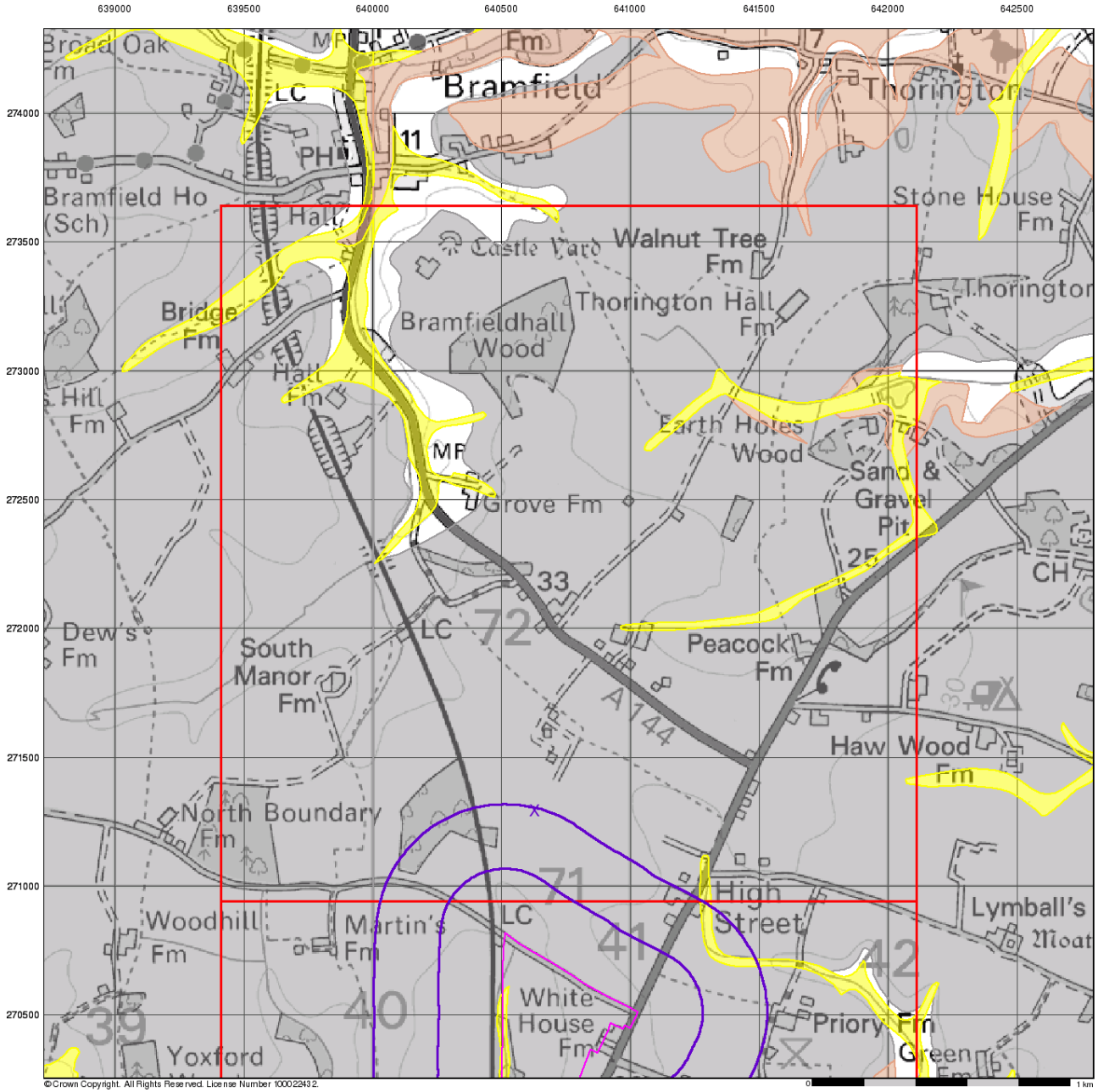
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



amec

Superficial Aquifer Designation

General

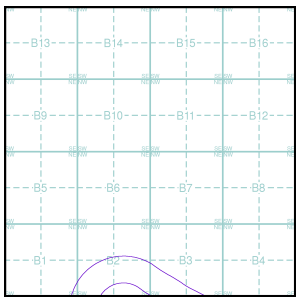
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice B

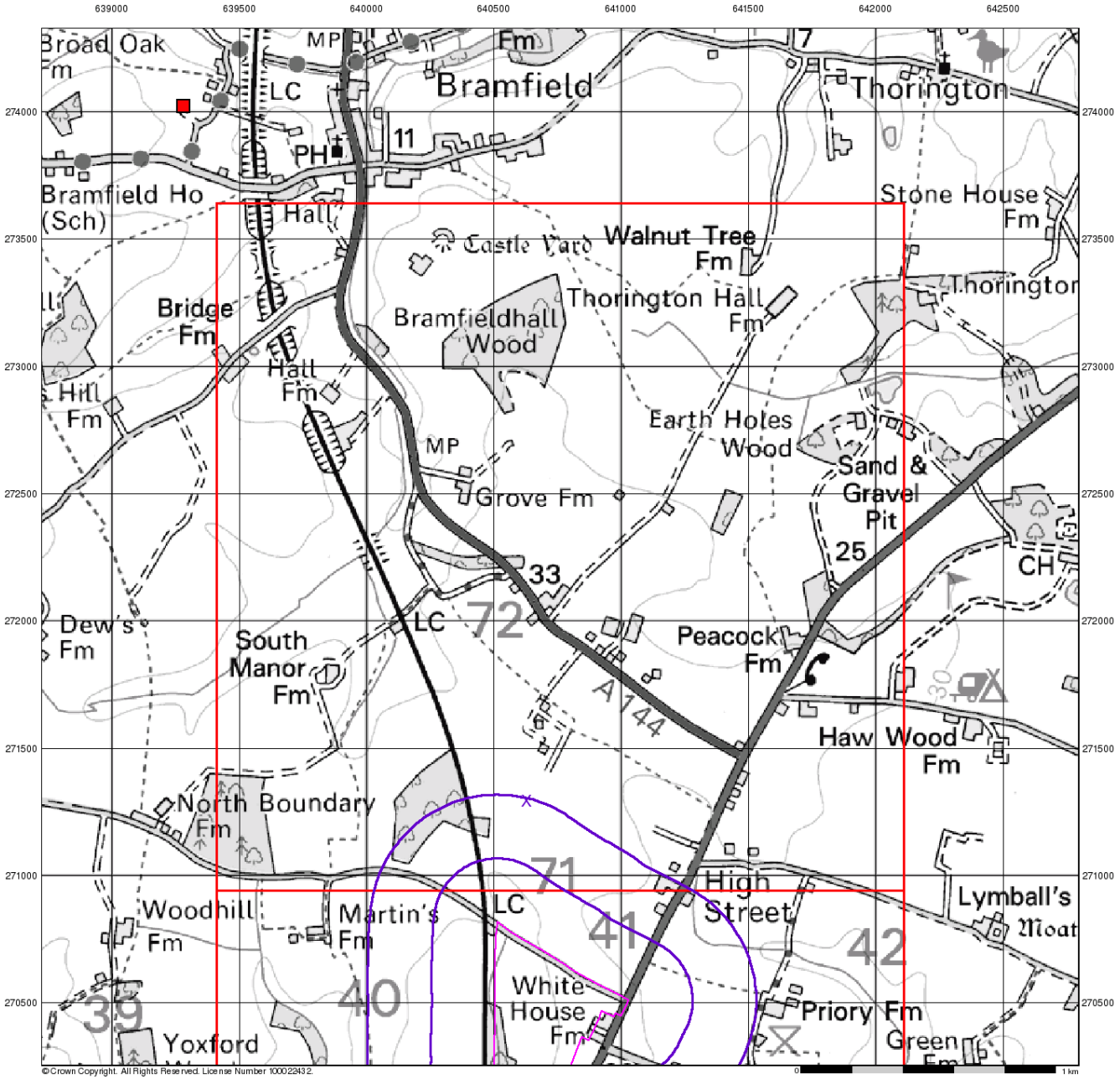


Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk



Source Protection Zones

General

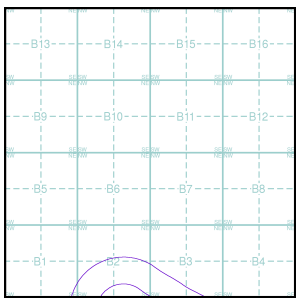
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice B



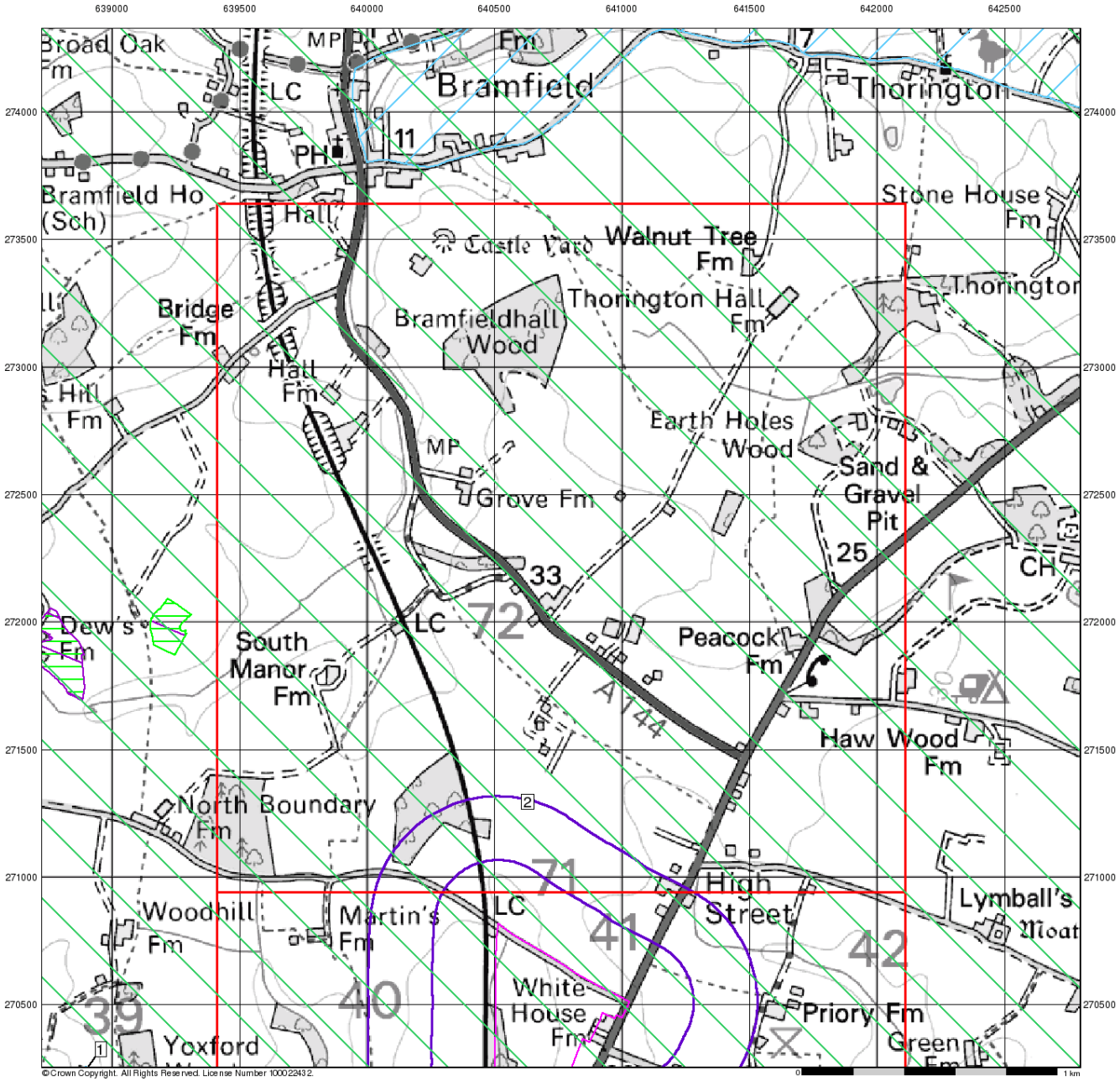
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



Sensitive Land Uses

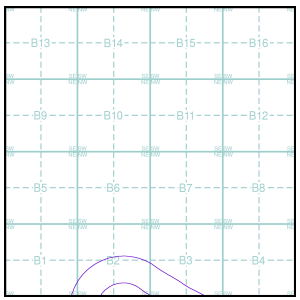
General

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

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice B



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
40176294_1_1

Customer Reference:
32623

National Grid Reference:
640630, 271290

Slice:
B

Site Area (Ha):
27.98

Search Buffer (m):
500

Site Details:

PRN1 Darsham Station
Darsham
Suffolk

Client Details:

Miss D Shankar
AMEC Environment & Infrastructure UK Ltd
Unit 1, Long Barn
Village Road
Nercwys
Mold
Flintshire
CH7 4EW

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency 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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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents				
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1			Yes
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 1	Yes	n/a	n/a
Superficial Aquifer Designations	pg 1	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
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				
Geological				
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 3	Yes	Yes	Yes
BGS Recorded Mineral Sites				
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 4	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
Industrial Land Use				
Contemporary Trade Directory Entries				
Fuel Station Entries				

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas	pg 5			1
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 5	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	B2SE (SW)	310	-	640481 271147
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 33 East Suffolk Scale: 1:100,000	B2NE (S)	0	1	640630 271294
	Drift Deposits Drift Deposit: Low permeability drift deposits occuring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 33 East Suffolk Scale: 1:100,000	B2NE (S)	0	1	640630 271294
	Bedrock Aquifer Designations Aquifer Desination: Principal Aquifer	B2NE (S)	0	2	640630 271294
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	B2NE (S)	0	2	640630 271294
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(S)	0	2	640528 270609
	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				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Suffolk County Council - Has supplied landfill data		0	6	640630 271294
	Local Authority Landfill Coverage Name: Suffolk Coastal District Council - Had landfill data but passed it to the relevant environment agency		0	7	640630 271294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Norwich Crag, Red Crag and Chillesford Clay	B2NE (S)	0	2	640630 271294
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SW (SE)	0	3	641000 271000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B2SE (S)	0	3	640630 271000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B2NE (S)	183	3	640630 271294
	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: <150 mg/kg Nickel Concentration: <15 mg/kg	B3SE (SE)	353	3	641270 271000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SE (SE)	395	3	641305 271000
	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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3NW (E)	414	3	641000 271294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B1SE (SW)	497	3	640000 271000
	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	B2NE (S)	0	2	640630 271294
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B2NE (S)	0	2	640630 271294
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B2NE (S)	0	2	640630 271294
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B2NE (S)	0	2	640630 271294
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B2NE (S)	0	2	640630 271294
	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	B2NE (S)	0	2	640630 271294
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B2NE (S)	0	2	640630 271294

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Environmentally Sensitive Areas** Name: Suffolk River Valleys Multiple Areas: Y Total Area (m2): 18431673.02 Source: Natural England	(SW)	489	4	639692 269824
2	**Nitrate Vulnerable Zones** Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	B2NE (S)	0	5	640630 271294

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Suffolk Coastal District Council - Environmental Health Department	September 2011	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	April 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	June 2012	Quarterly
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	April 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Local Authority Pollution Prevention and Controls Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Suffolk Coastal District Council - Environmental Health Department	December 2011	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	June 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	June 2012	Monthly
Registered Radioactive Substances Environment Agency - Anglian Region	April 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Water Abstractions Environment Agency - Anglian Region	April 2012	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	April 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	April 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	May 2012	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	May 2012	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	May 2012	Quarterly
Flood Defences		
Environment Agency - Head Office	May 2012	Quarterly
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	January 2012	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Eastern Area	April 2012	Quarterly
Local Authority Landfill Coverage		
Suffolk Coastal District Council - Environmental Health Department	May 2000	Not Applicable
Suffolk County Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Suffolk Coastal District Council - Environmental Health Department	May 2000	Not Applicable
Suffolk County Council	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites		
Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Suffolk Coastal District Council	December 2011	Annual Rolling Update
Suffolk County Council - Environment and Transport	February 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
Suffolk Coastal District Council	December 2011	Annual Rolling Update
Suffolk County Council - Environment and Transport	February 2006	Annual Rolling Update

Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	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	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	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	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	February 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	February 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	February 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	February 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2012	Bi-Annually
Special Areas of Conservation Natural England	February 2012	Bi-Annually
Special Protection Areas Natural England	February 2012	Bi-Annually

Data Suppliers

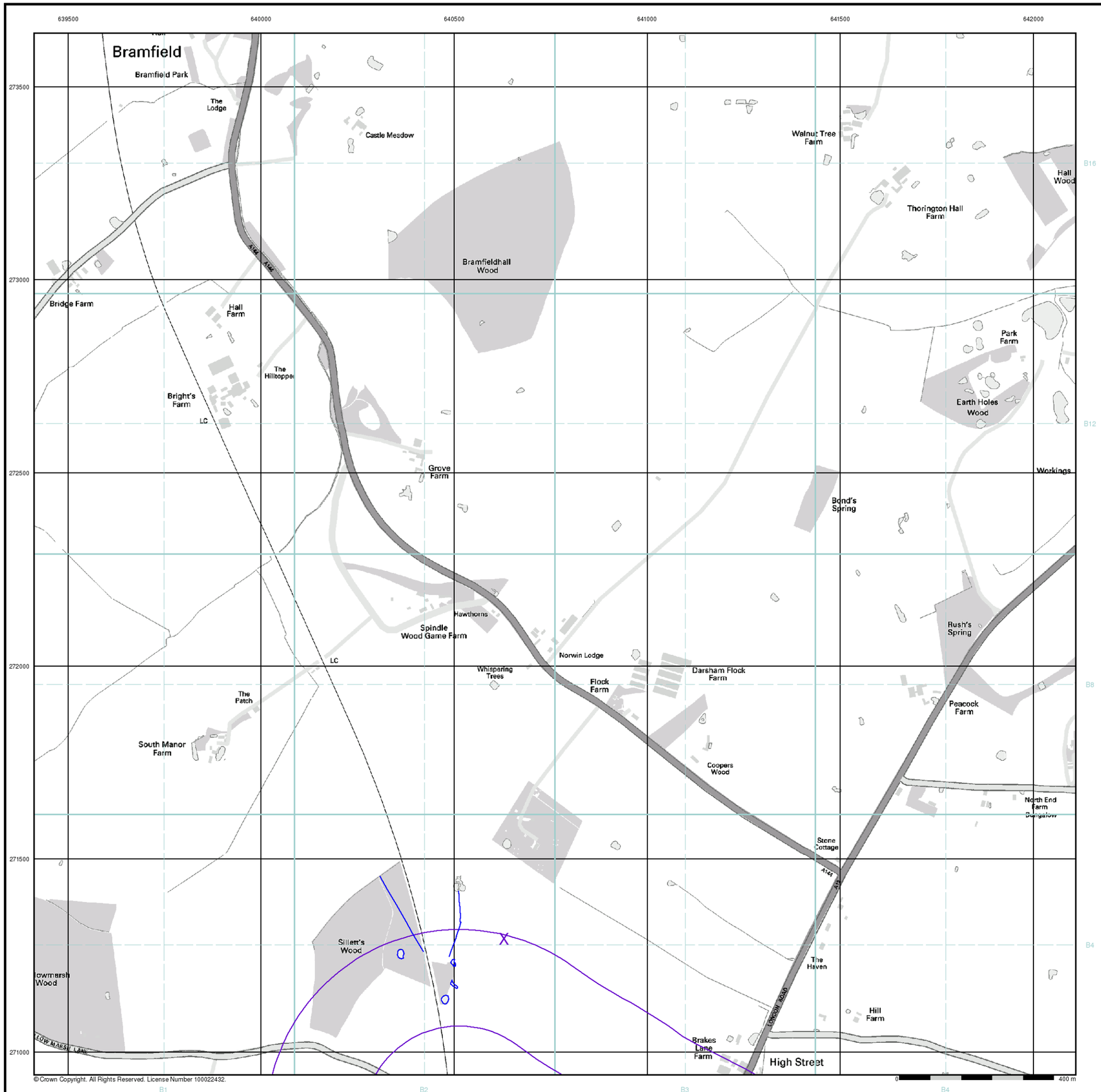
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
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	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
4	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
5	**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
6	**Suffolk County Council** St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ	Telephone: 01473 583000 Fax: 01473 230240 Website: www.suffolkcc.gov.uk
7	**Suffolk Coastal District Council - Environmental Health Department** Council Offices, Melton Hill, Woodbridge, Suffolk, IP12 1AU	Telephone: 01394 383789 extn 2238 Fax: 01394 385100 Website: www.suffolkcoastal.gov.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

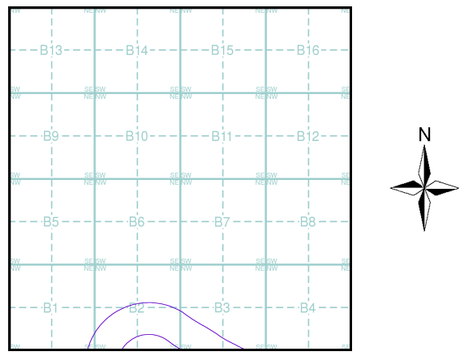
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

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

Site Sensitivity Map - Slice B



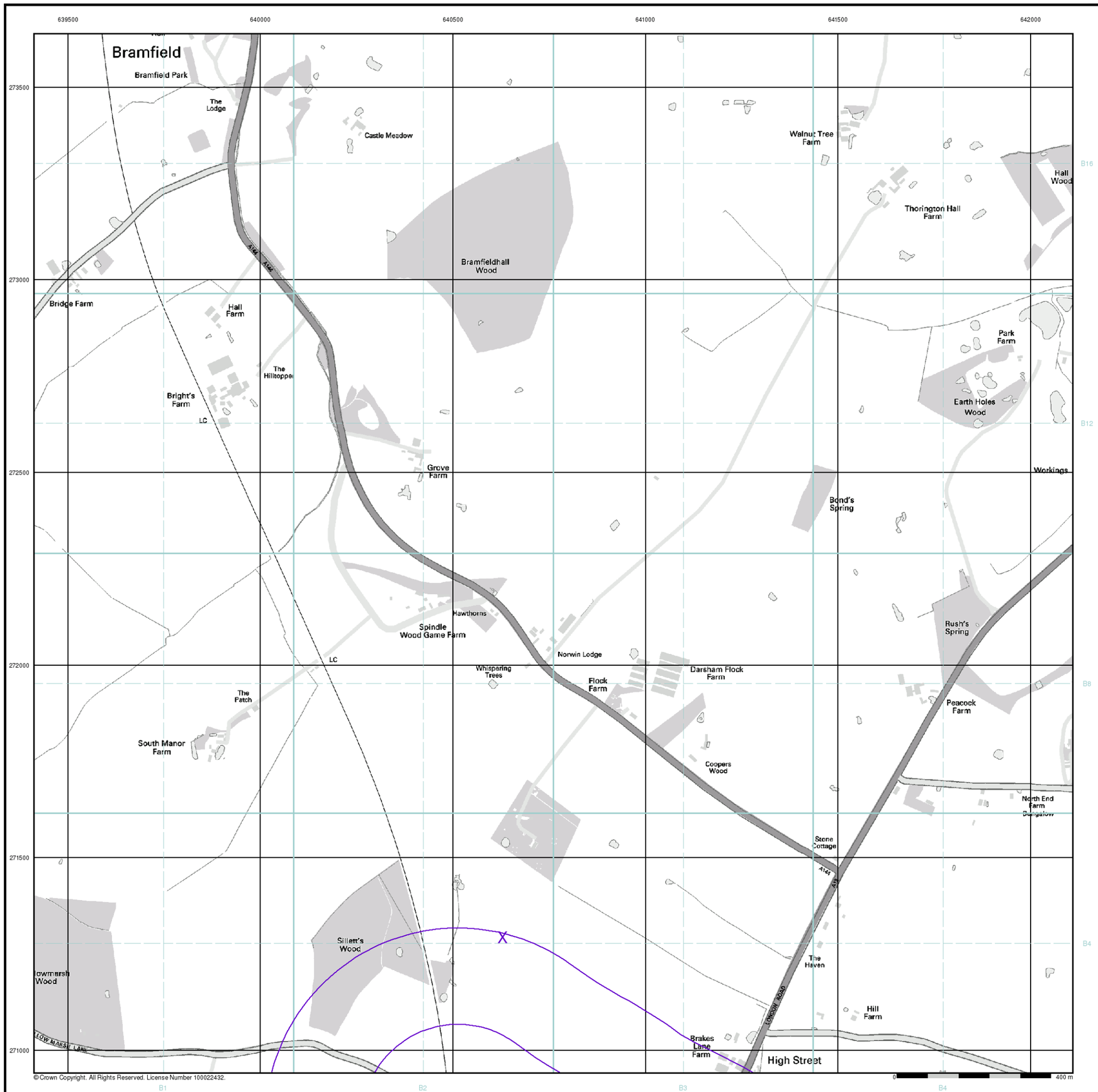
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



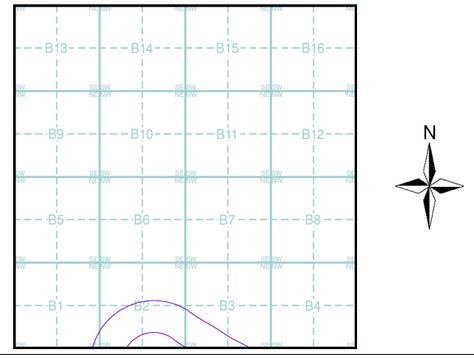
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice B



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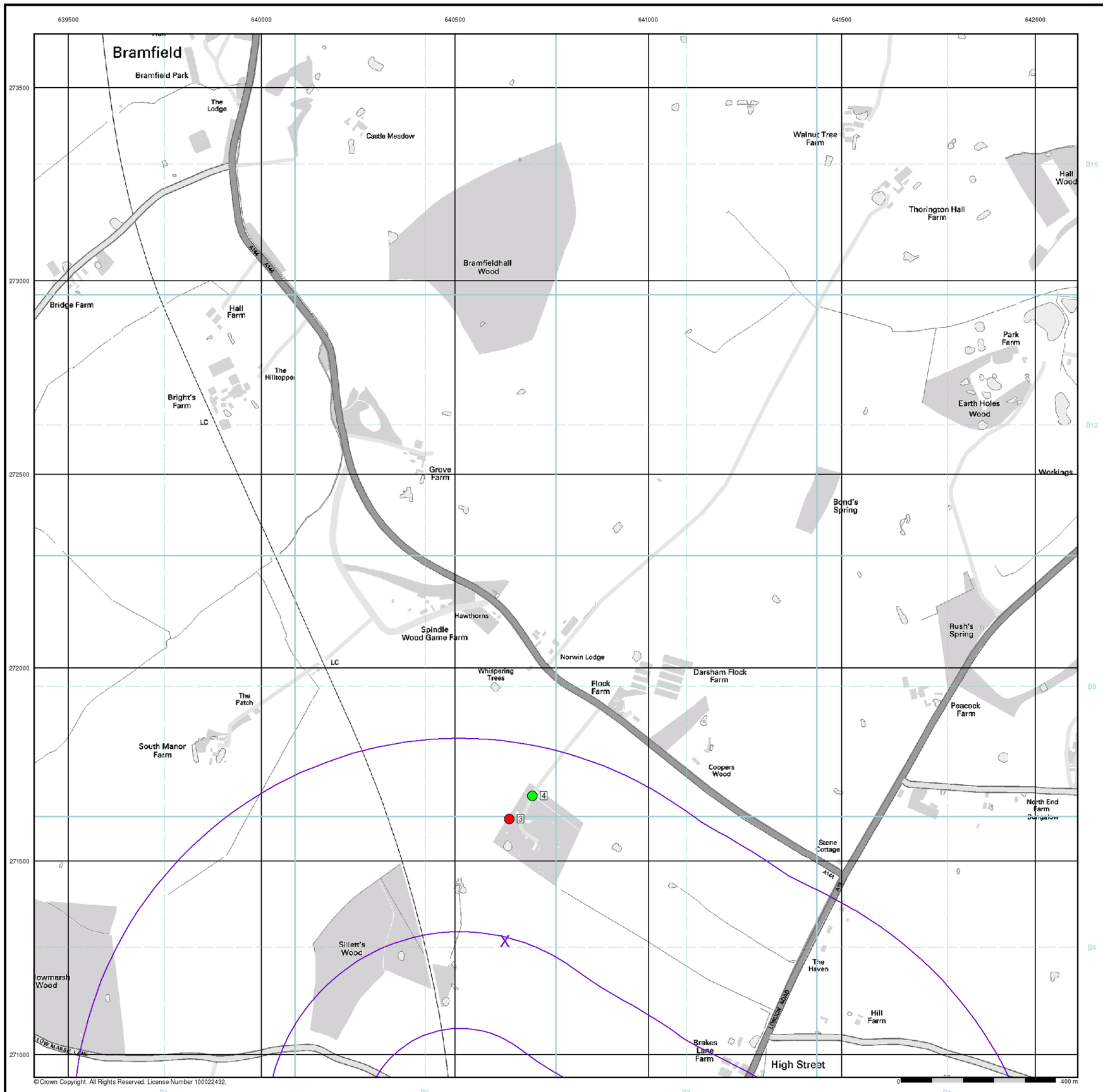


General

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

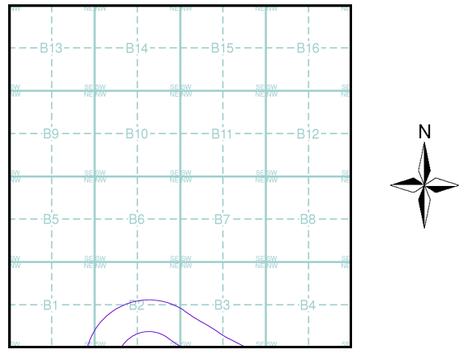
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice B



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Site Area (Ha):	27.98
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General

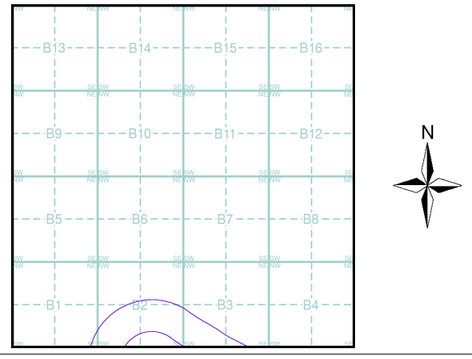
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice B



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General

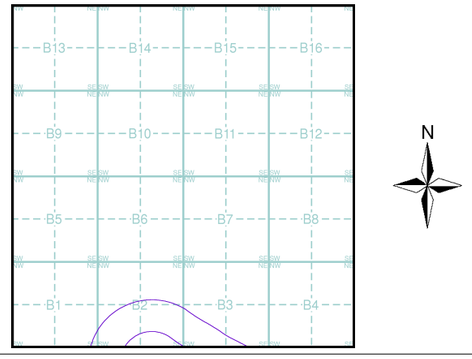
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

	< 1.8
	1.8 - 2.2
	2.2 - 3.0
	> 3.0

Estimated Soil Chemistry Cadmium - Slice B



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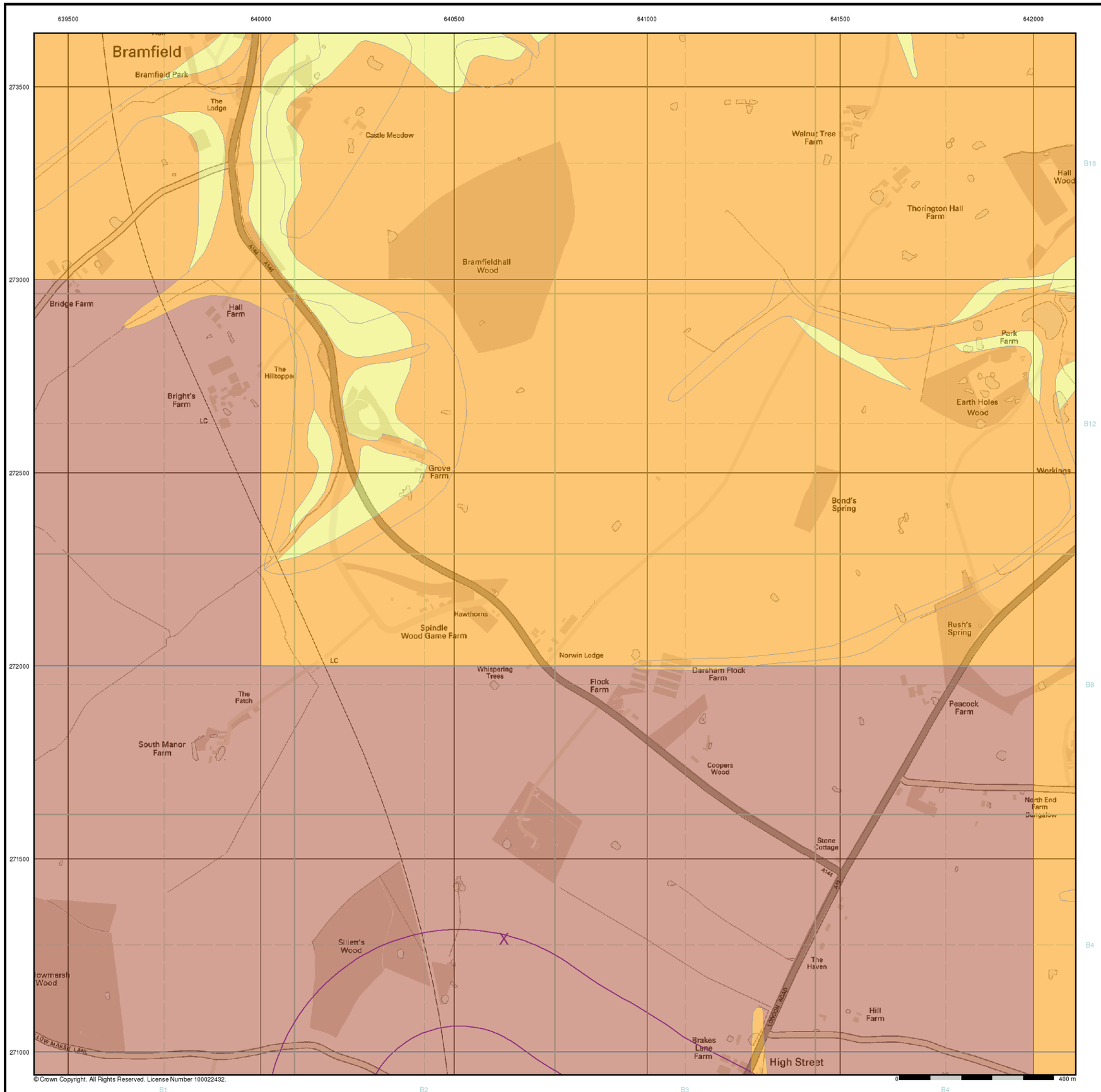


amec

General

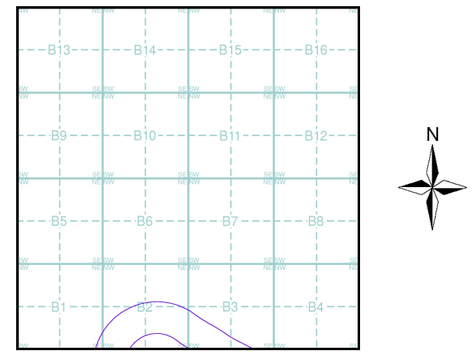
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice B



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General

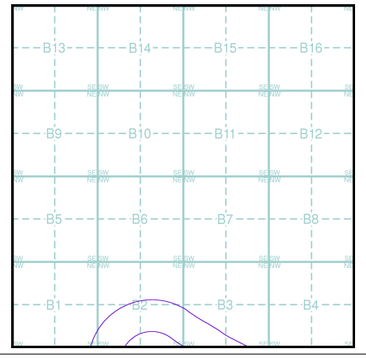
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice B



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General

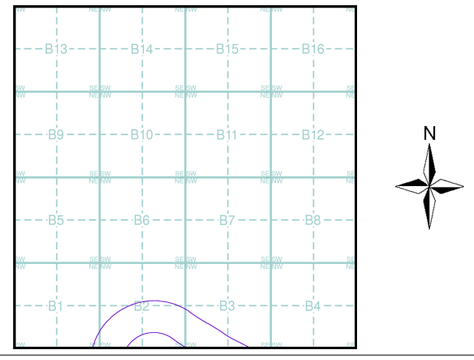
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice B



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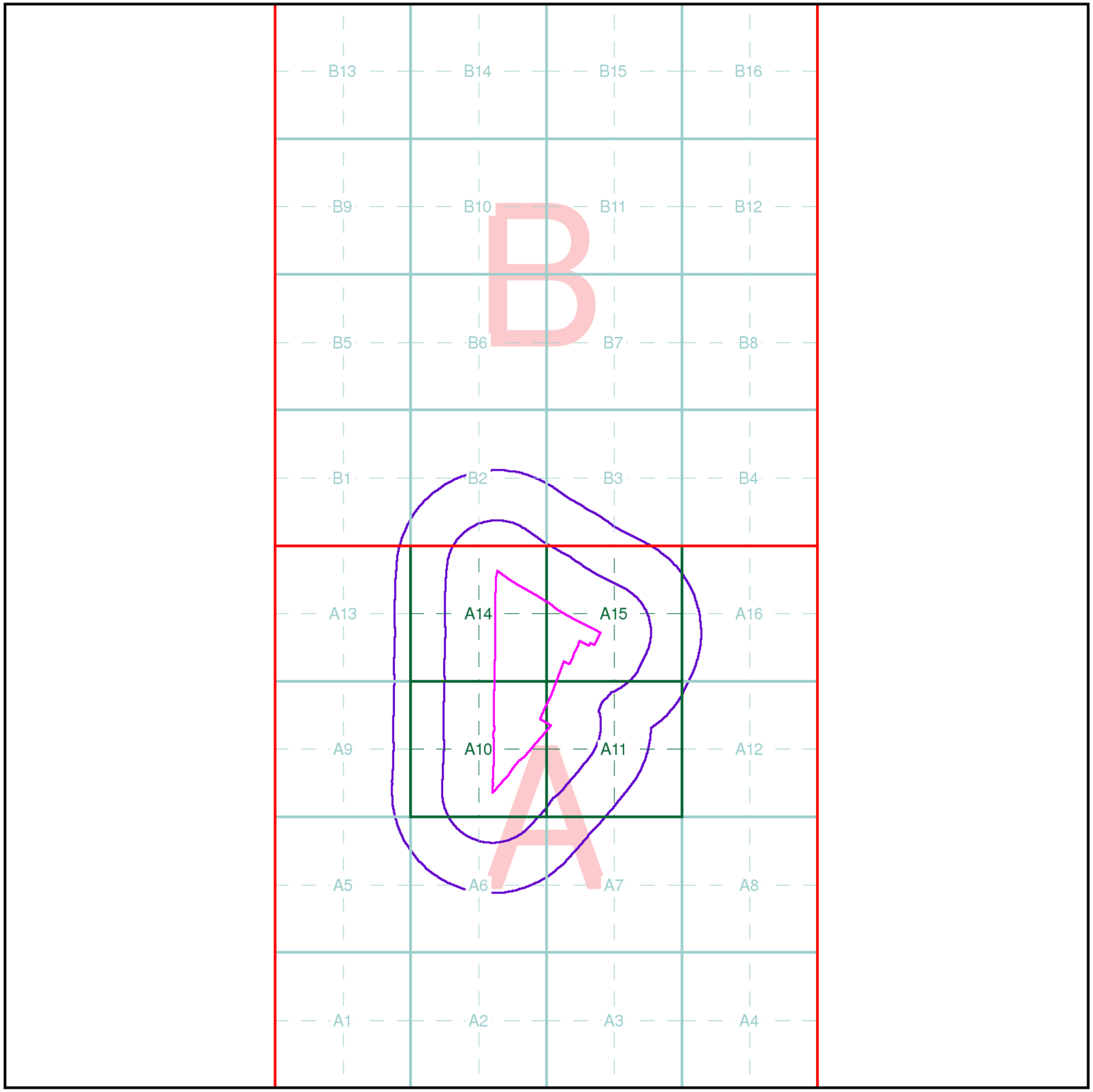

Index Map

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

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

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

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

A selection of organisations who provide data within this report:

Ordnance Survey Licensed Partner

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Miss D Shankar, AMEC Environment & Infrastructure UK Ltd, Unit 1, Long Barn, Village Road, Nercwys, Mold, Flintshire, CH7 4EW

Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 270330
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/430

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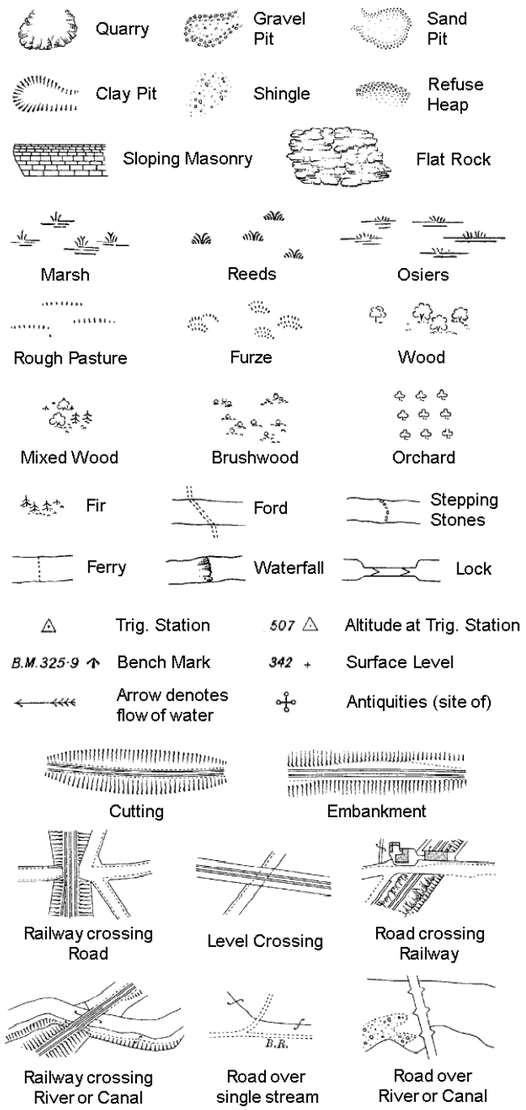
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

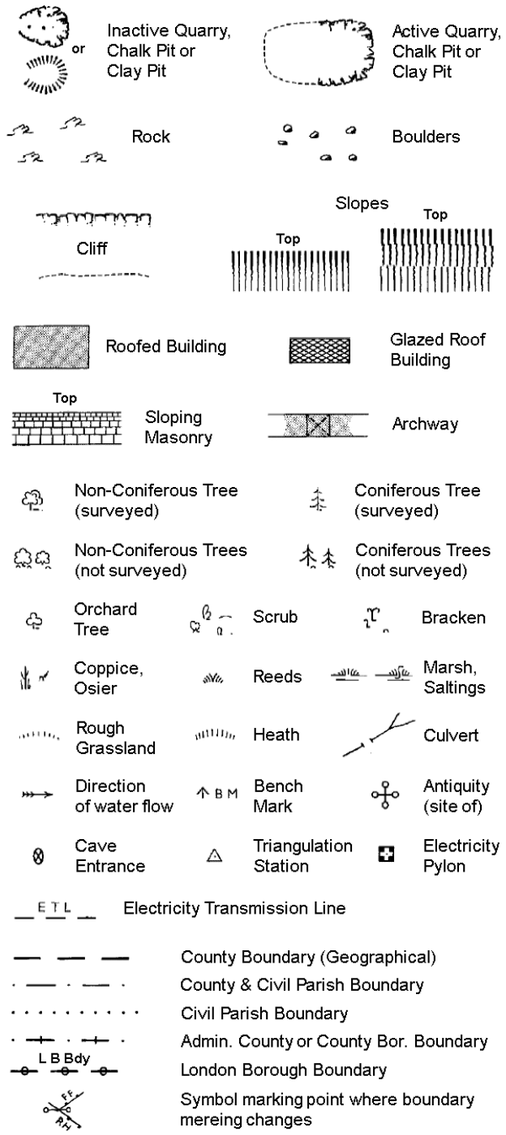
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

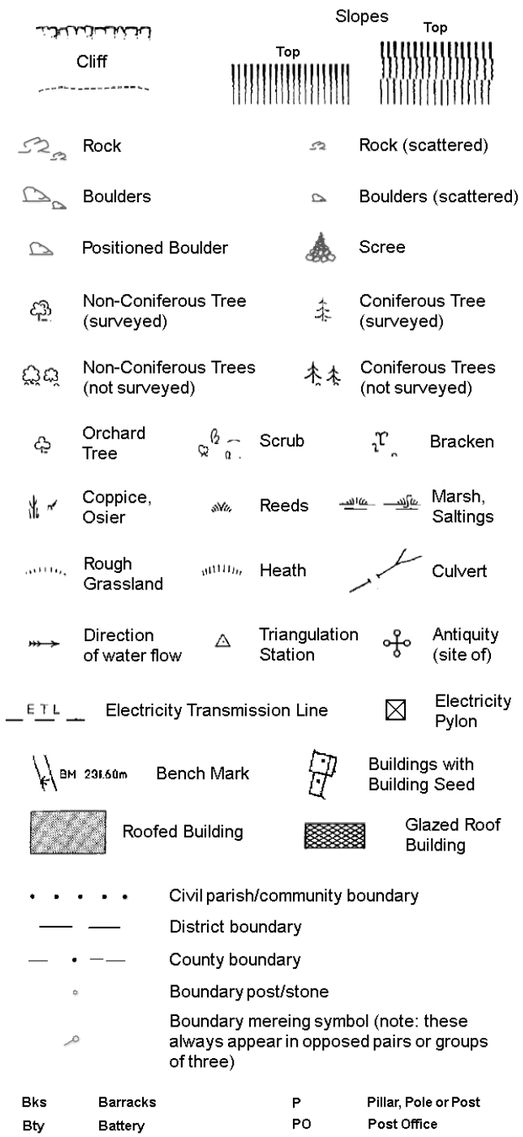
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

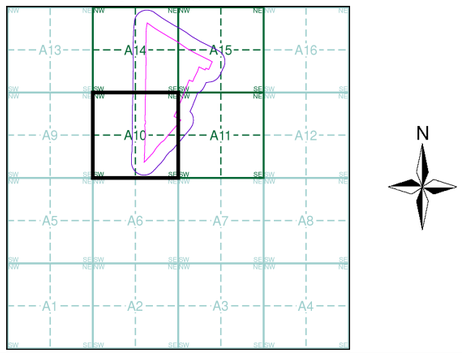
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:2,500	1884	2
Suffolk	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1995	5

Historical Map - Segment A10



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

PRN1 Darsham Station, Darsham, Suffolk

Landmark® Information Group

Tel: 0844 844 9952
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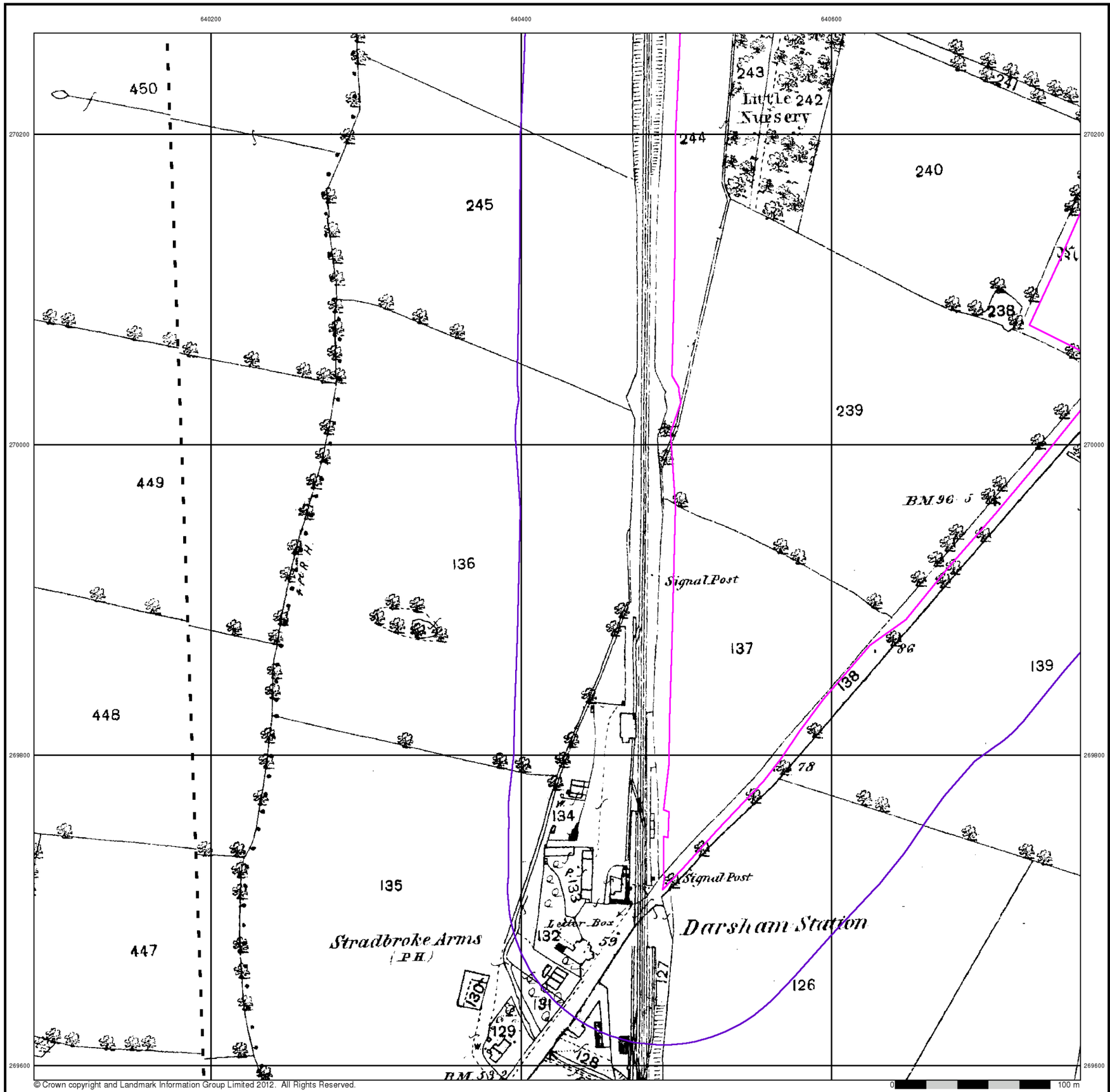

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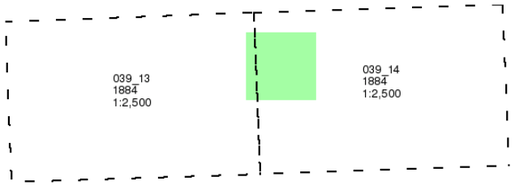
Suffolk

Published 1884

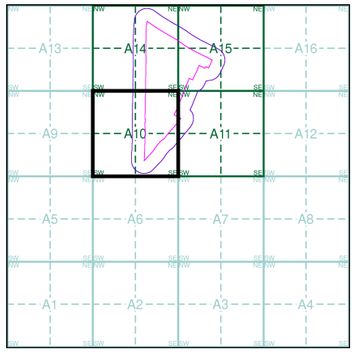
Source map scale - 1:2,500

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 A10



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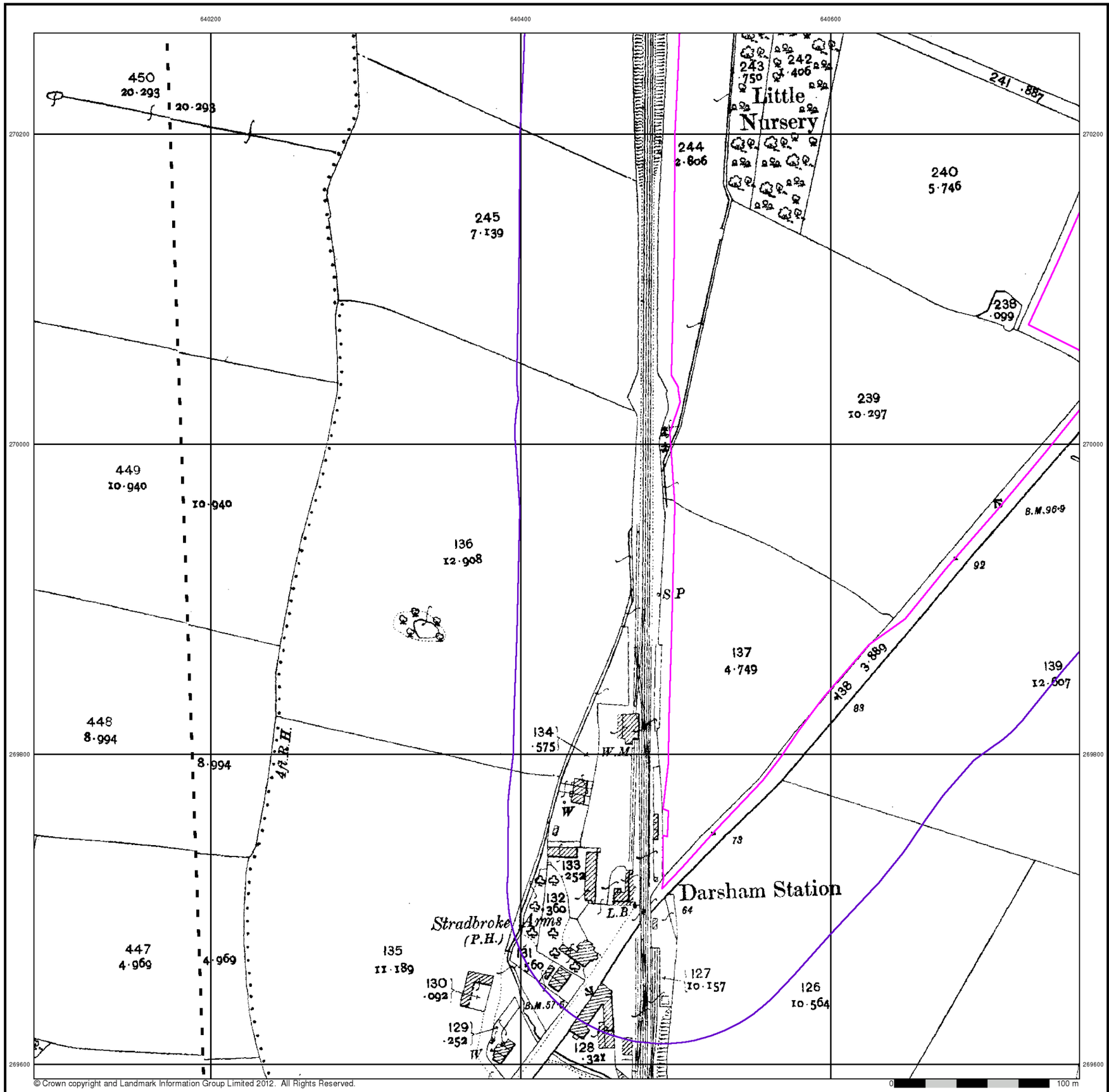

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Suffolk

Published 1904

Source map scale - 1:2,500

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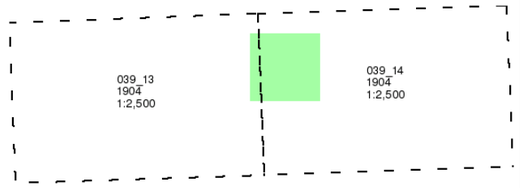
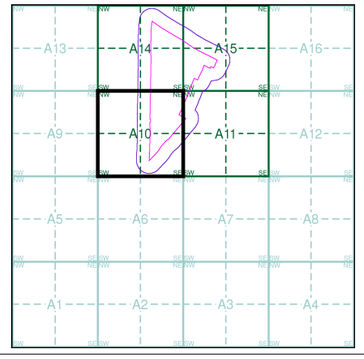


Historical Map - Segment A10



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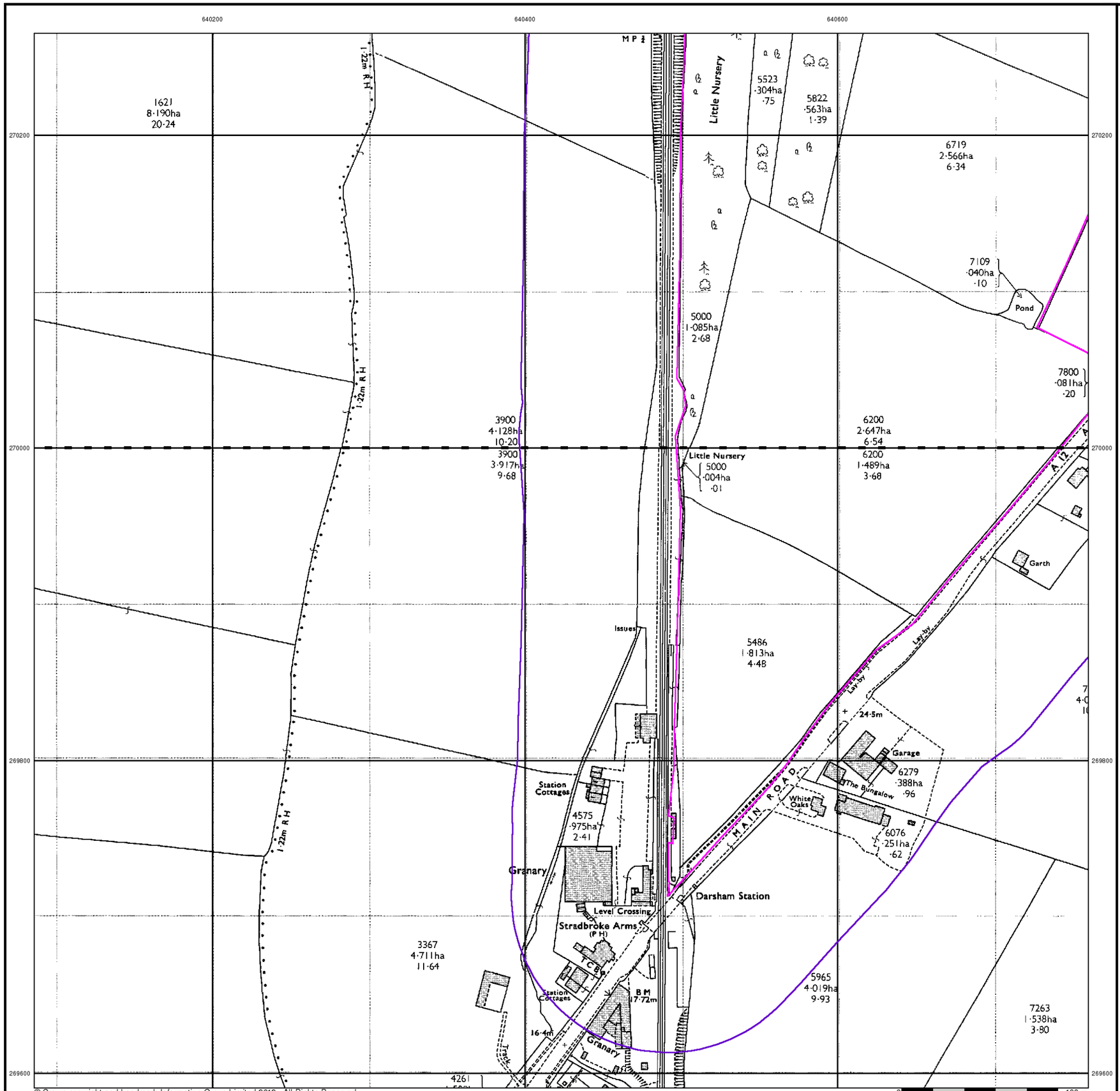

amec

Ordnance Survey Plan

Published 1976

Source map scale - 1:2,500

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

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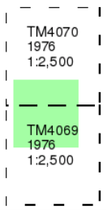
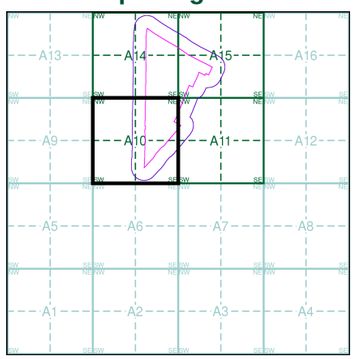


Historical Map - Segment A10



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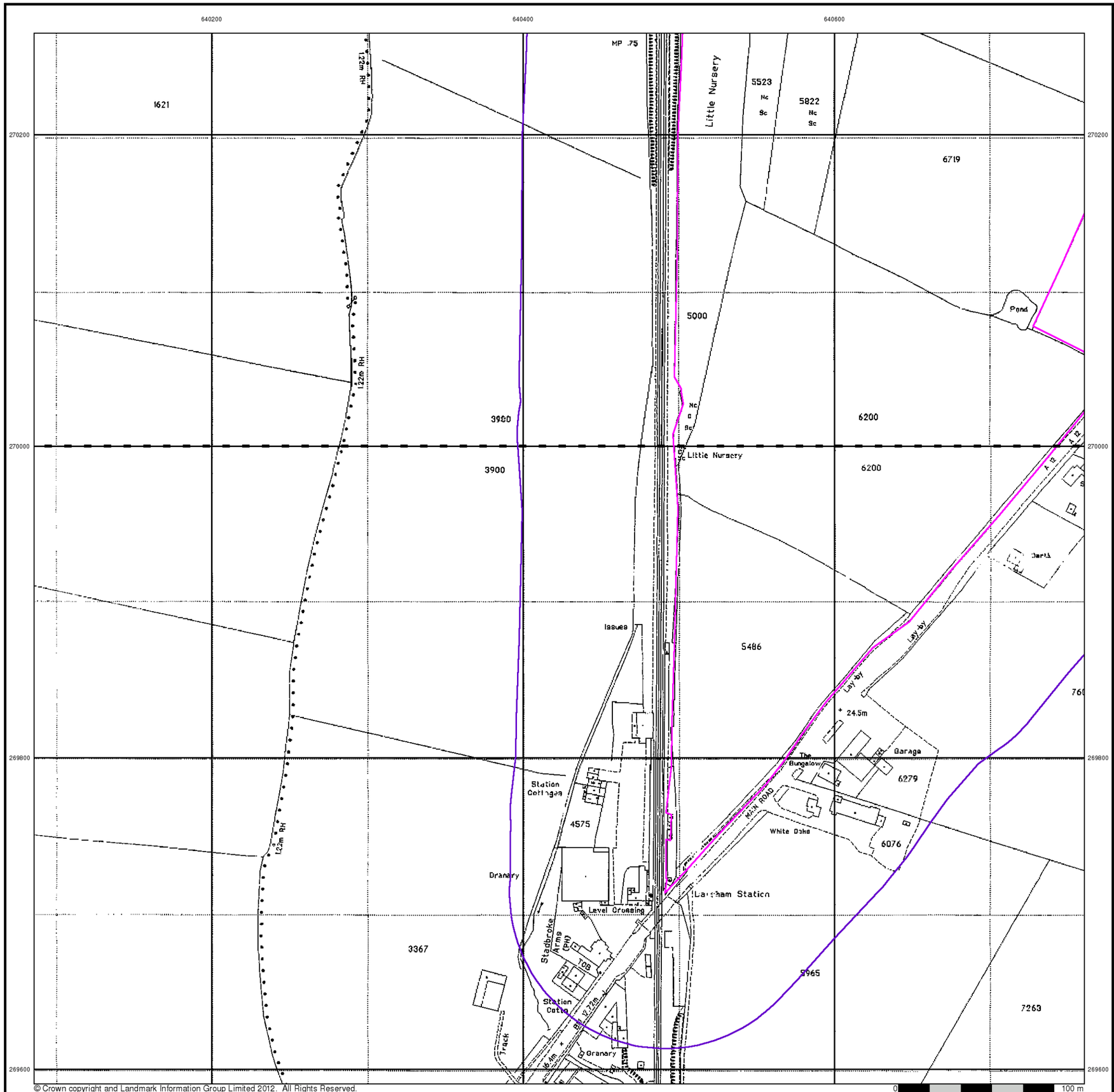


amec

Large-Scale National Grid Data

Published 1995

Source map scale - 1:2,500

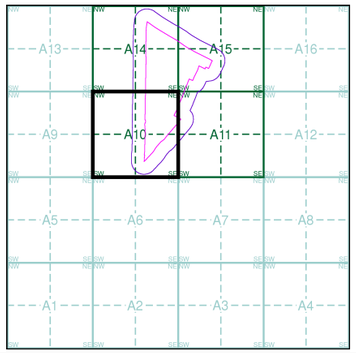
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

TM4070
1995
1:2,500

TM4069
1995
1:2,500

Historical Map - Segment A10



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

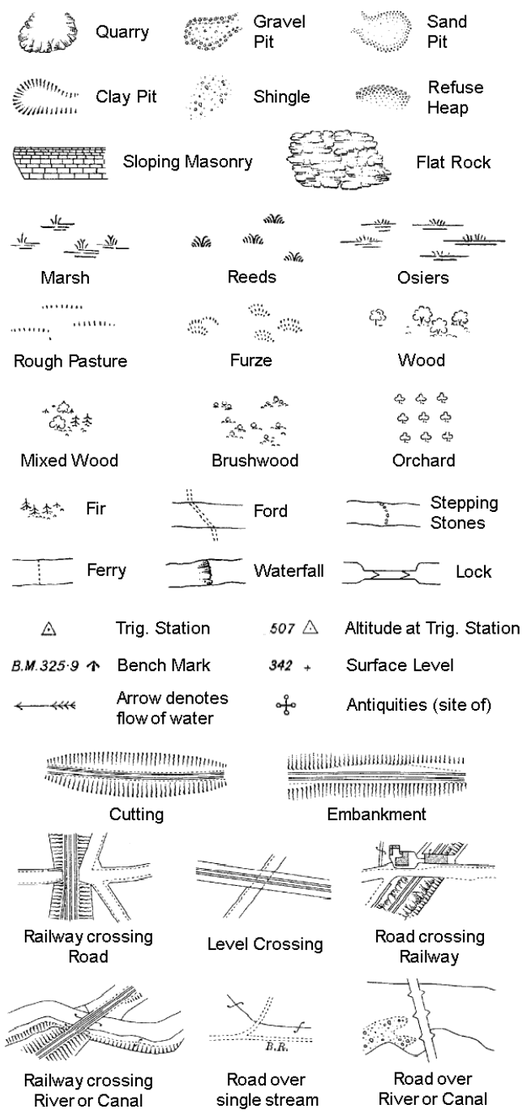
PRN1 Darsham Station, Darsham, Suffolk

Landmark Information Group

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

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

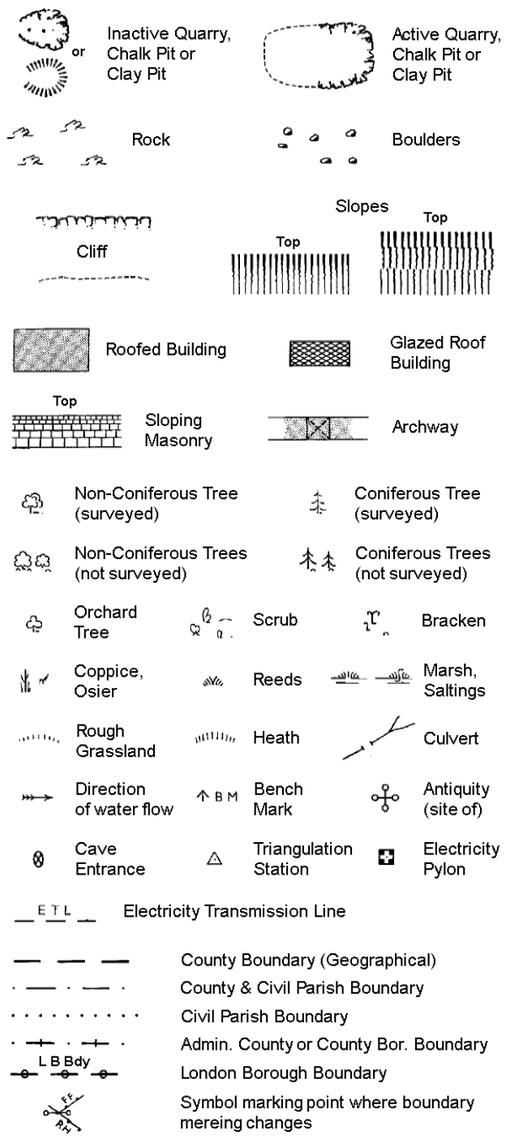
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

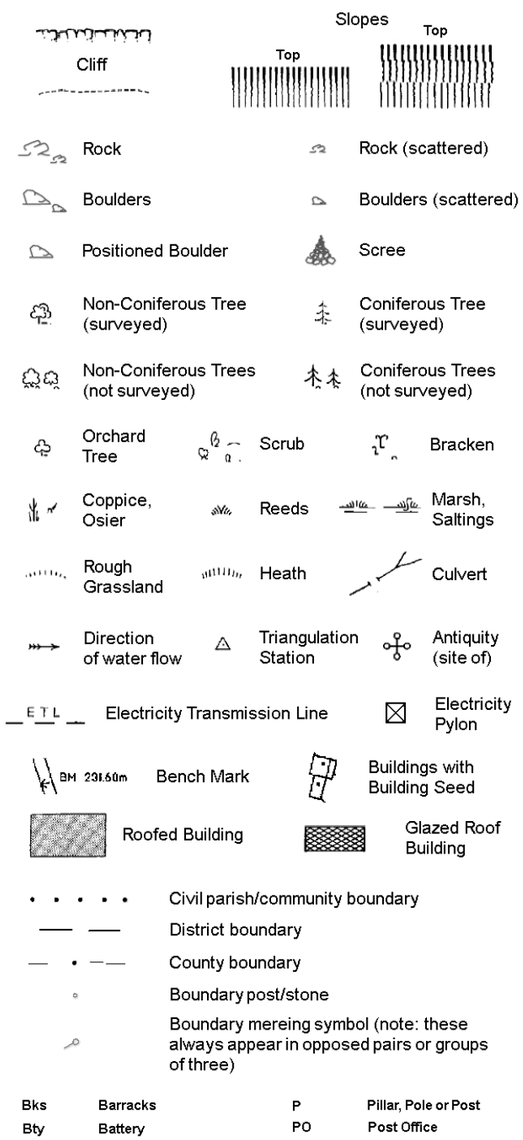
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

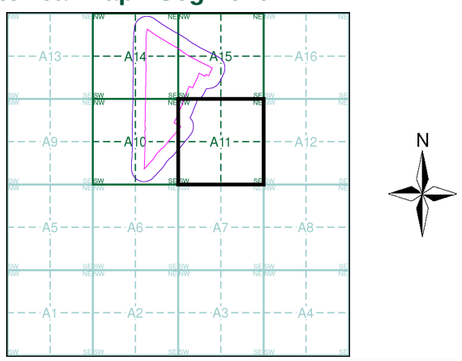
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:2,500	1884	2
Suffolk	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1995	5

Historical Map - Segment A11



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

PRN1 Darsham Station, Darsham, Suffolk

Landmark® Information Group

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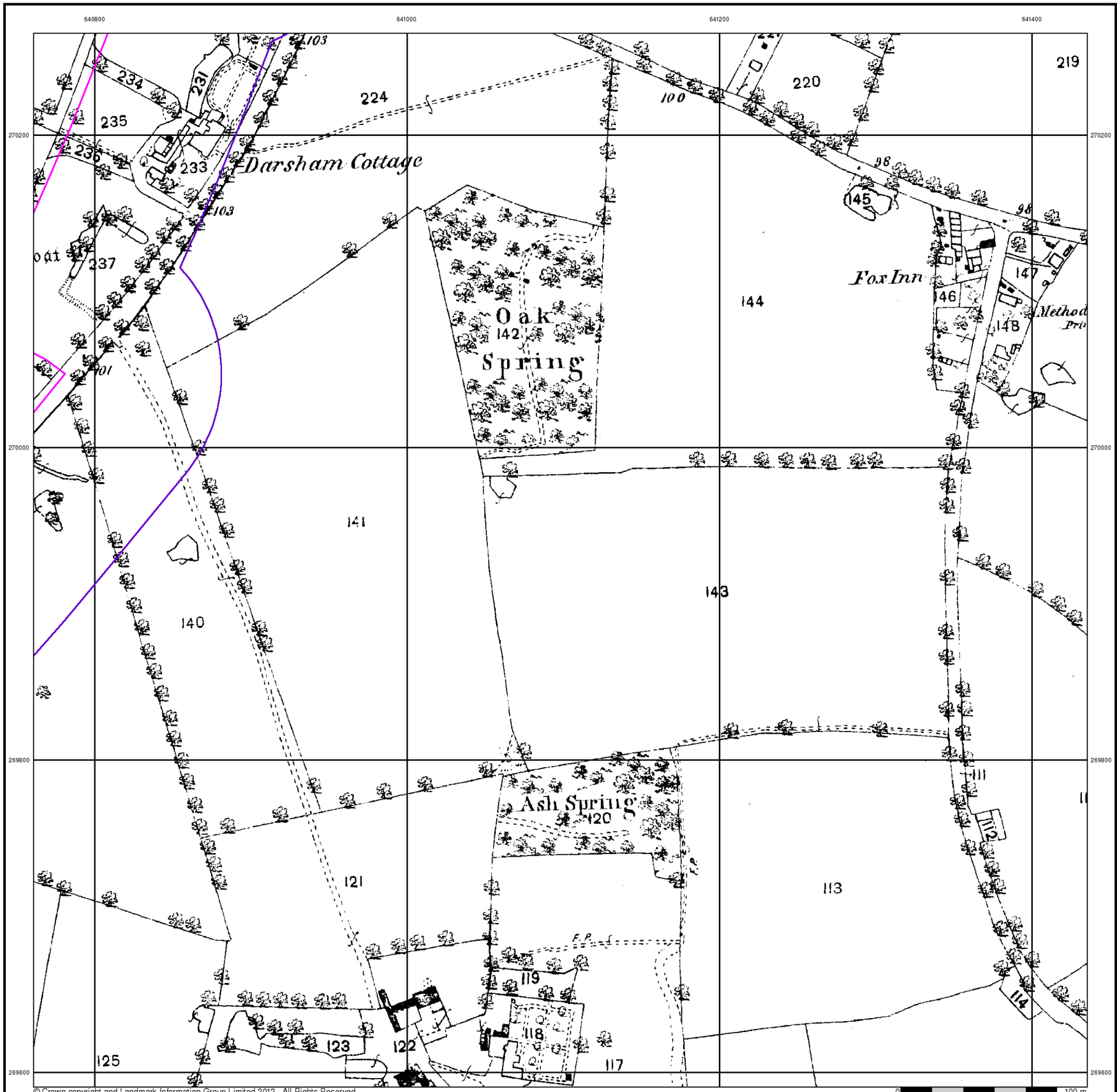


amec

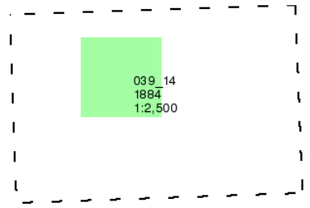
Suffolk

Published 1884

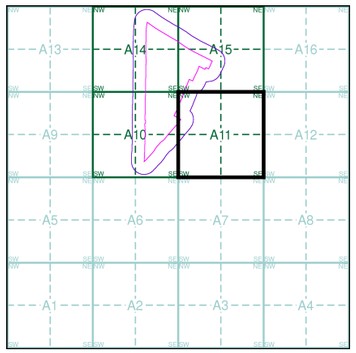
Source map scale - 1:2,500

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 A11



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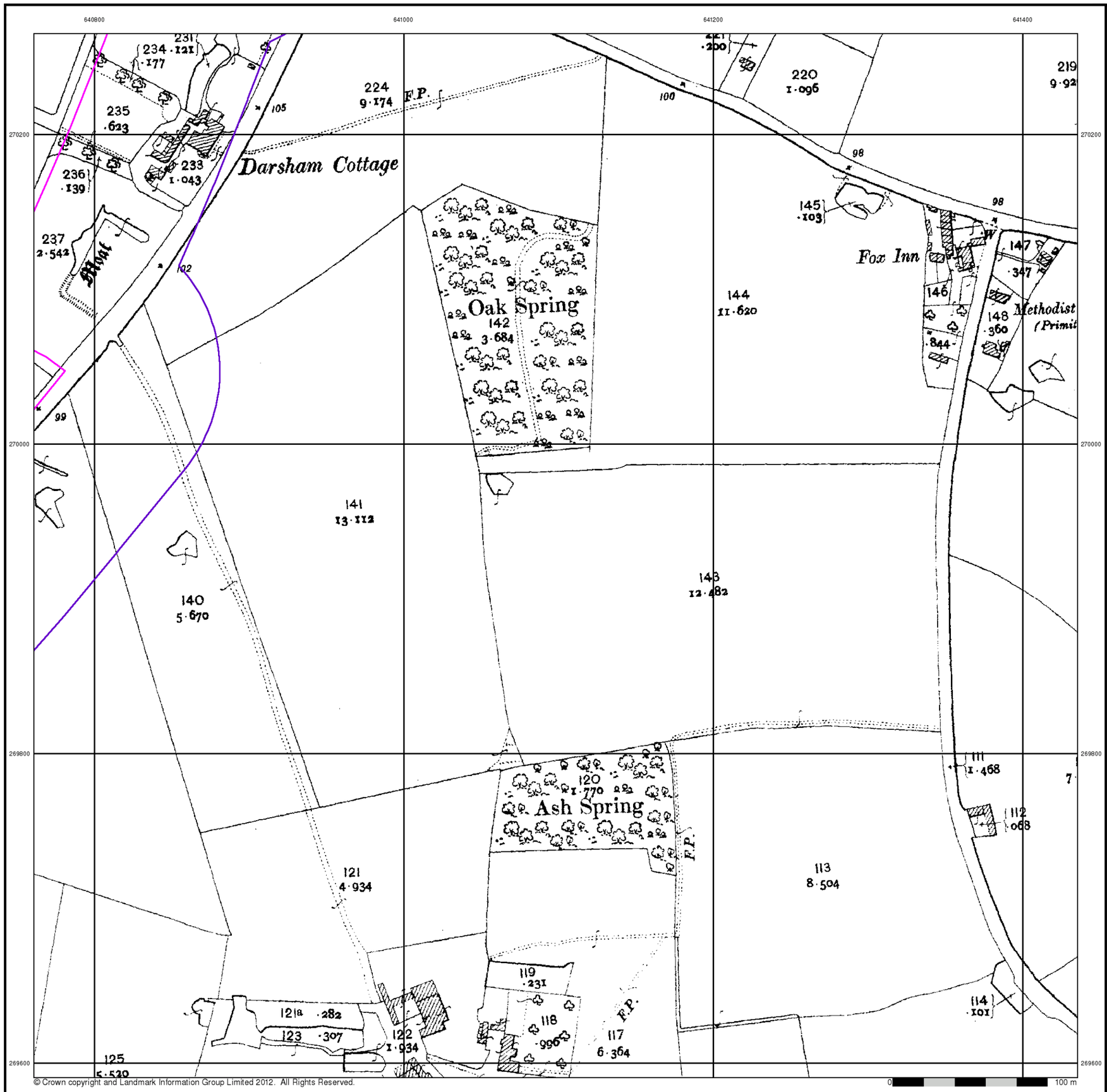

amec

Suffolk

Published 1904

Source map scale - 1:2,500

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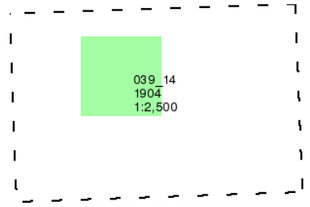
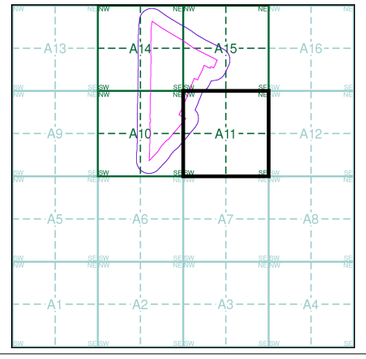


Historical Map - Segment A11



Order Details

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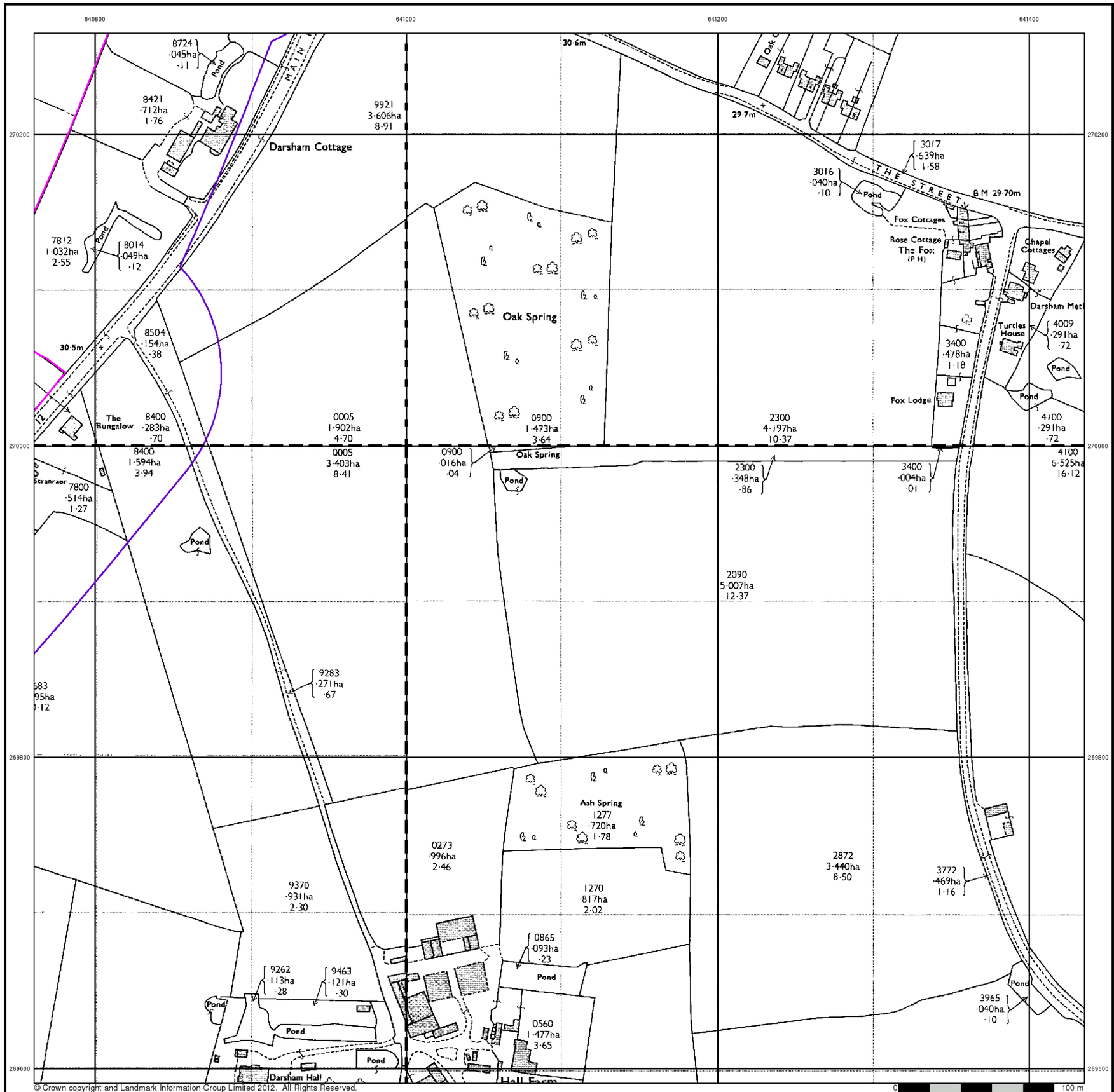


amec

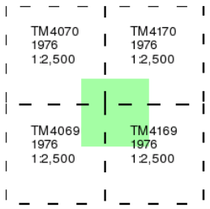
Ordnance Survey Plan

Published 1976

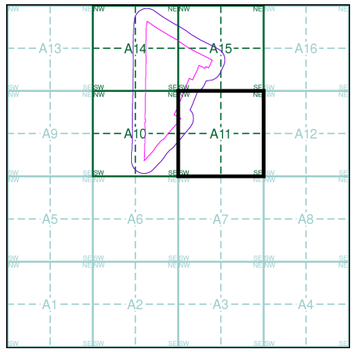
Source map scale - 1:2,500

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 A11



Order Details

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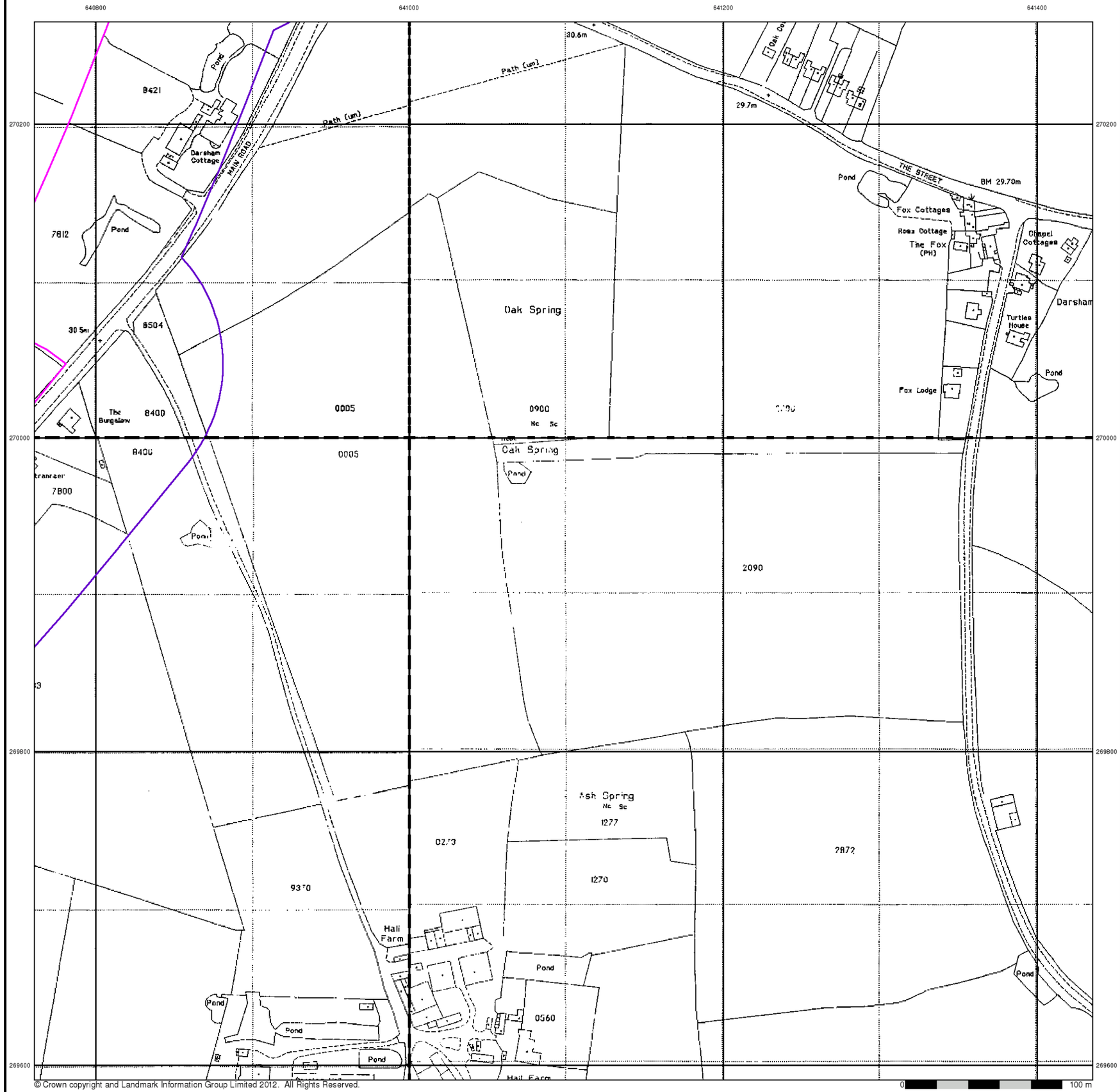


amec

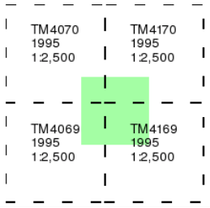
Large-Scale National Grid Data

Published 1995

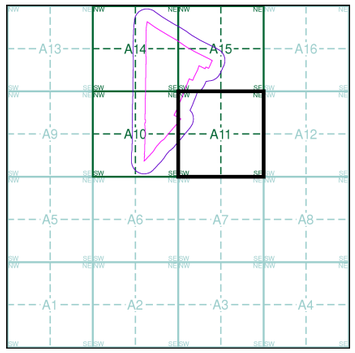
Source map scale - 1:2,500

'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 A11



Order Details

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National Grid Reference:	640660, 269970
Slice:	A
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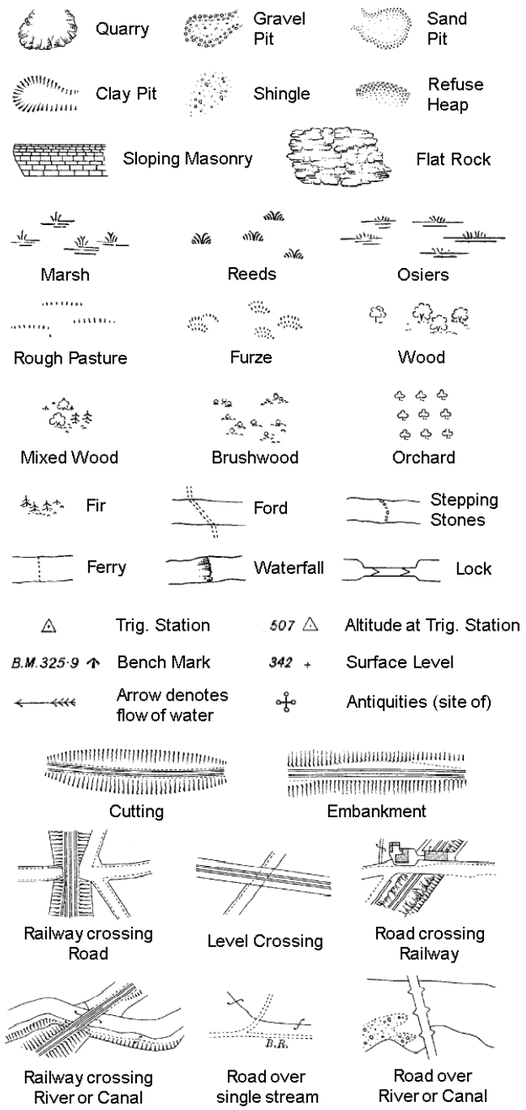
Historical Mapping Legends

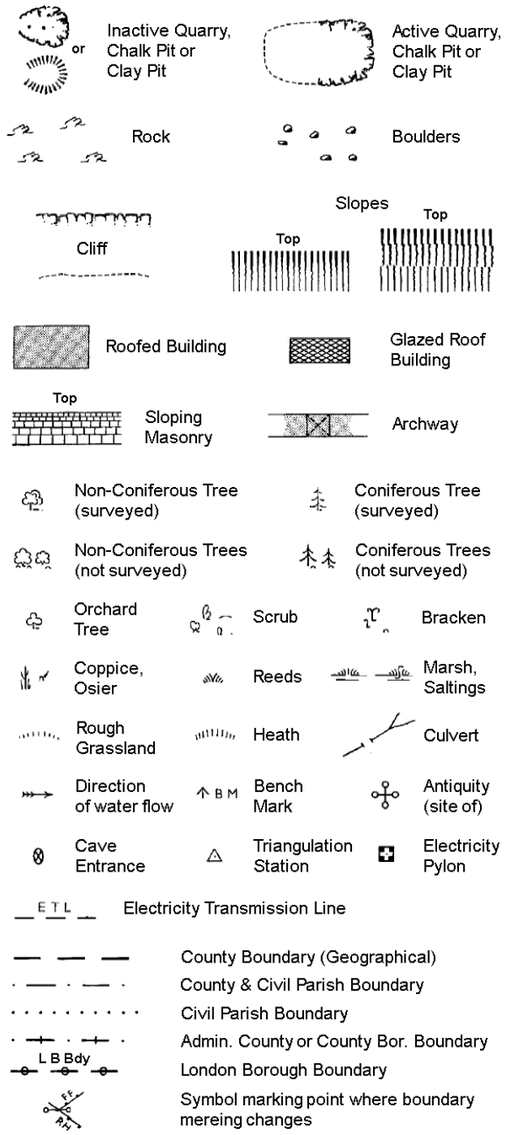
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
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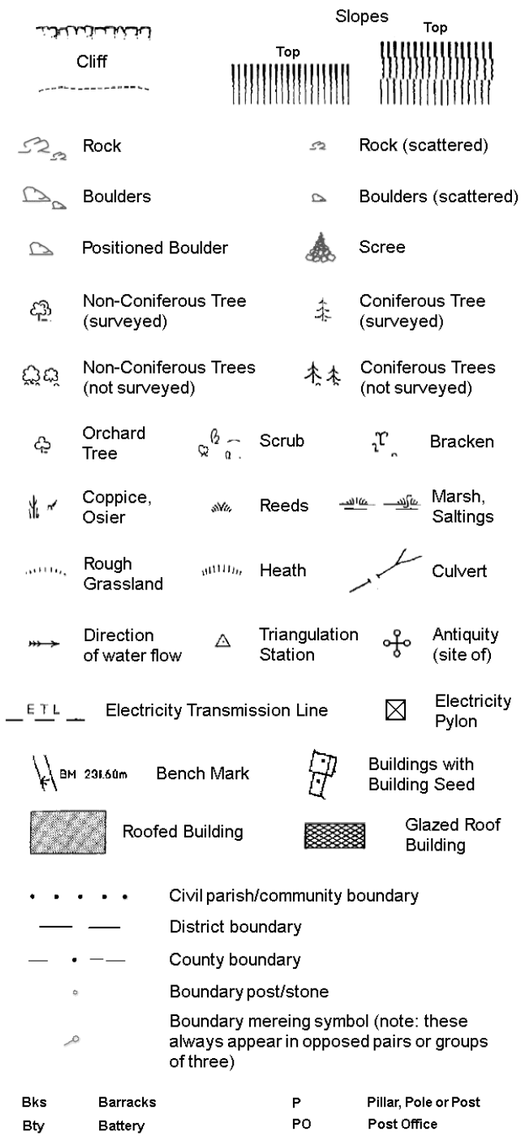
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

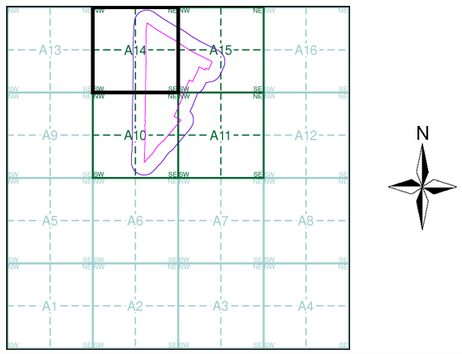
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:2,500	1884	2
Suffolk	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1995	5

Historical Map - Segment A14



Order Details

Order Number:	40176294_1_1
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National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

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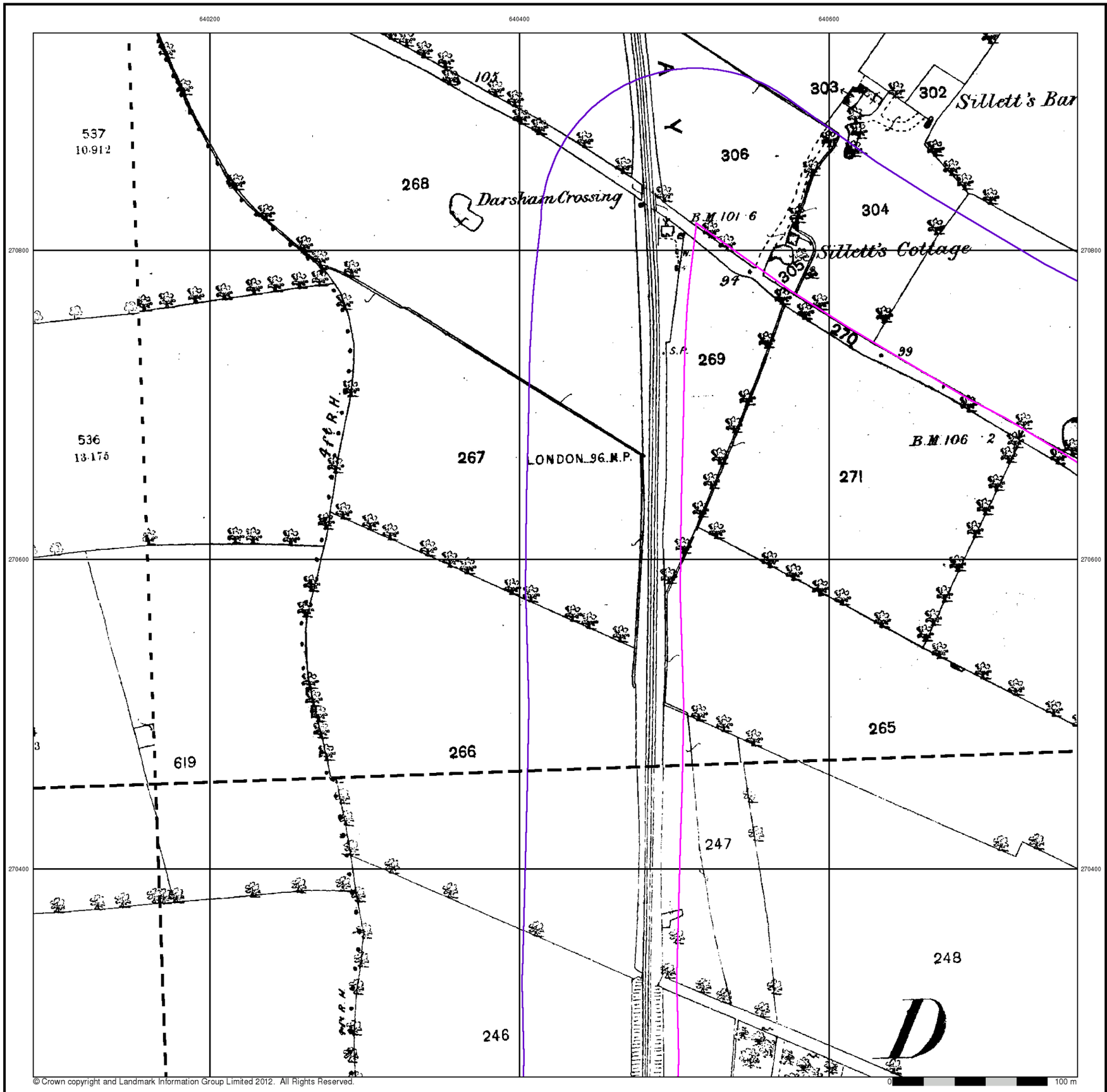

Suffolk

Published 1884

Source map scale - 1:2,500

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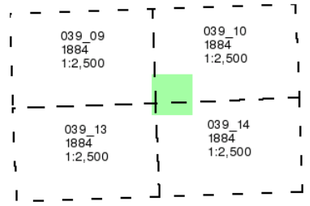
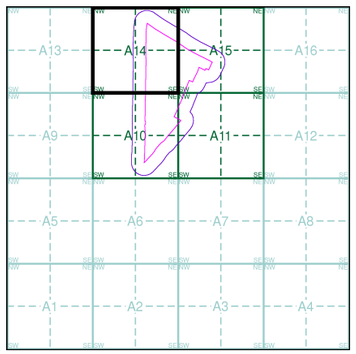
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

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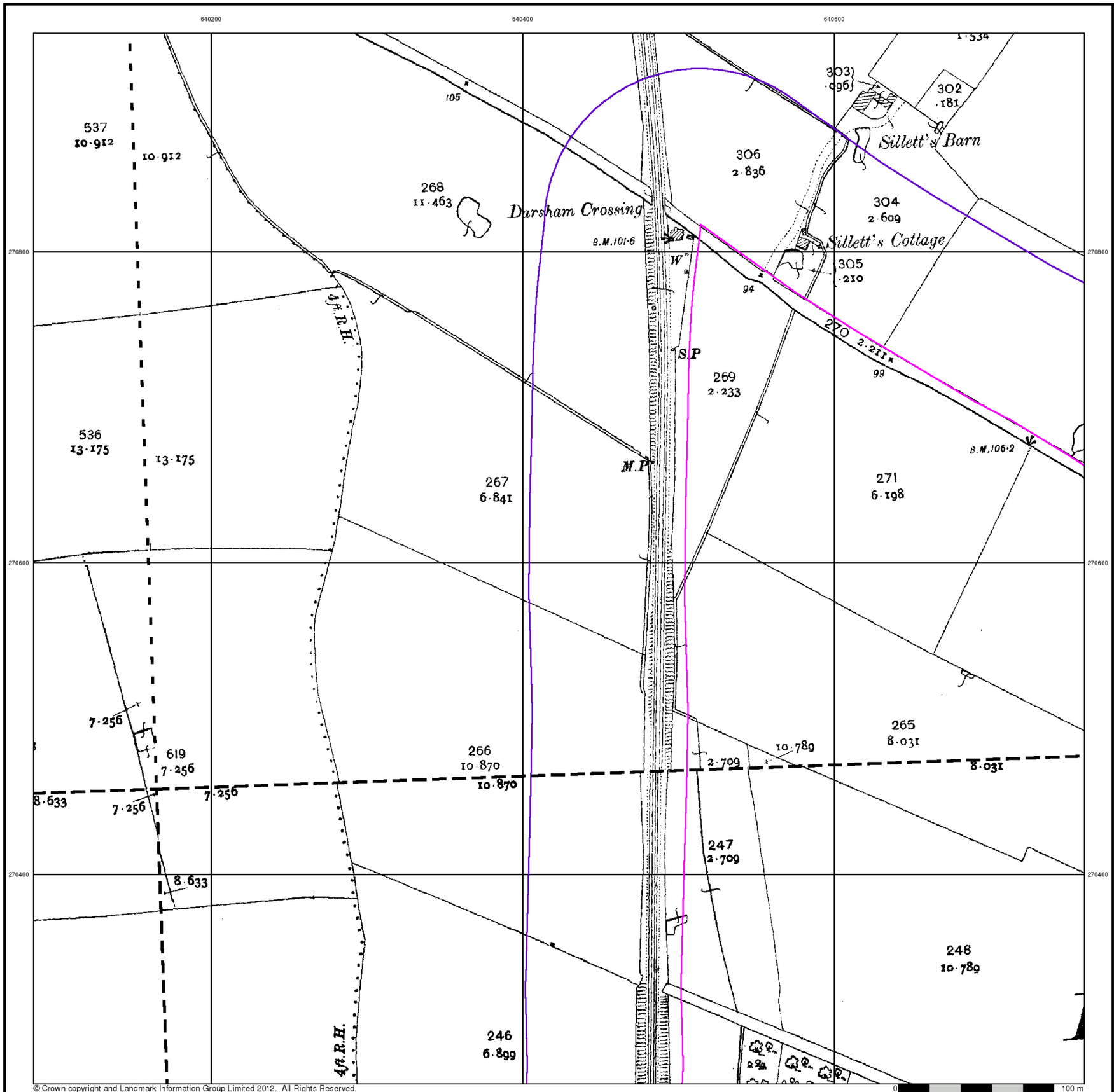

Suffolk

Published 1904

Source map scale - 1:2,500

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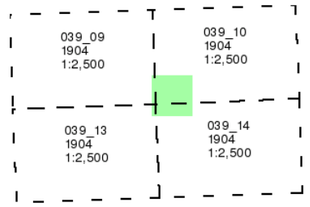
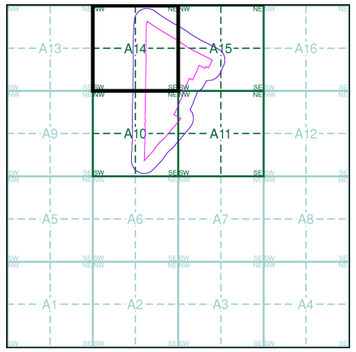
Map Name(s) and Date(s)



Historical Map - Segment A14



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amec

Ordnance Survey Plan

Published 1976

Source map scale - 1:2,500

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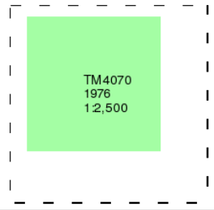
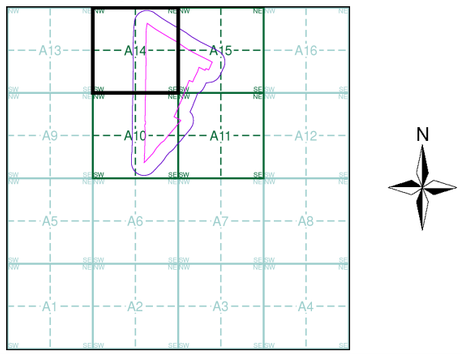


Historical Map - Segment A14



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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

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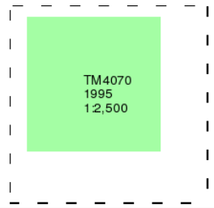
Large-Scale National Grid Data

Published 1995

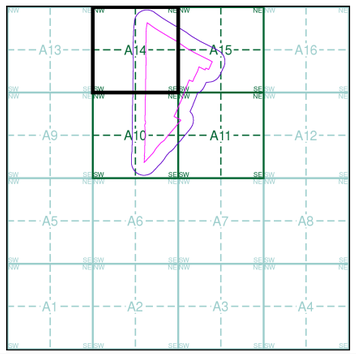
Source map scale - 1:2,500

'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 A14



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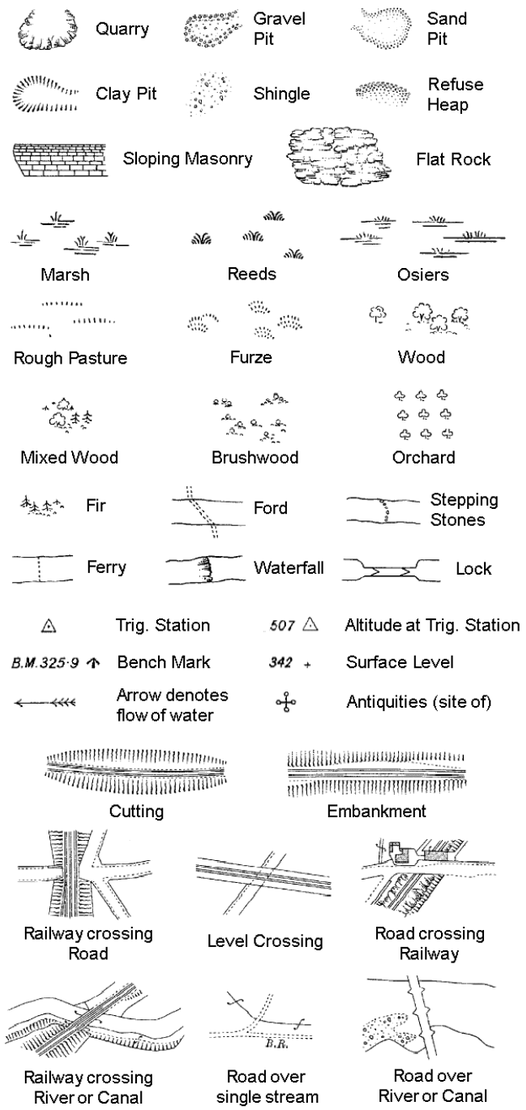
Historical Mapping Legends

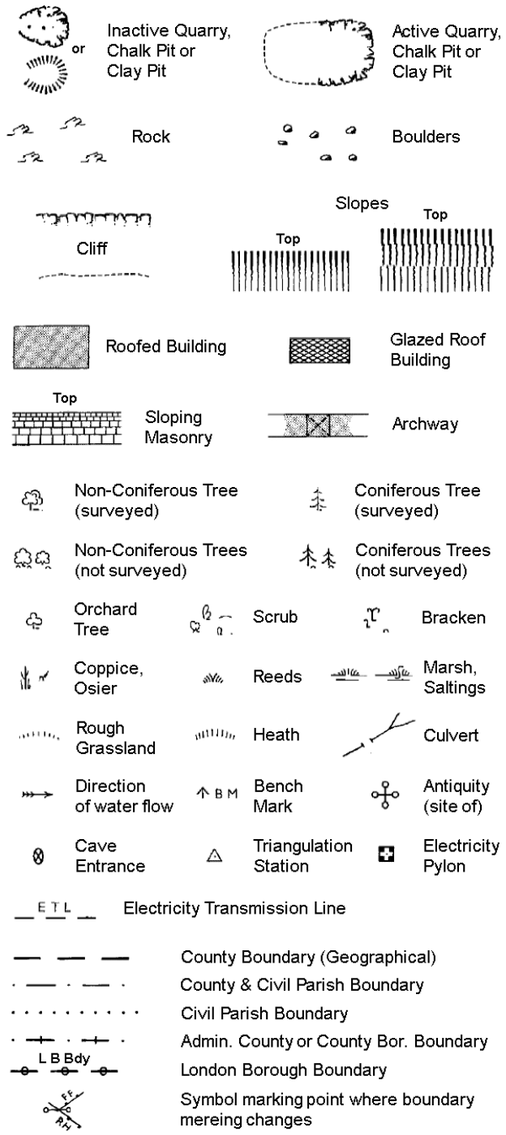
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

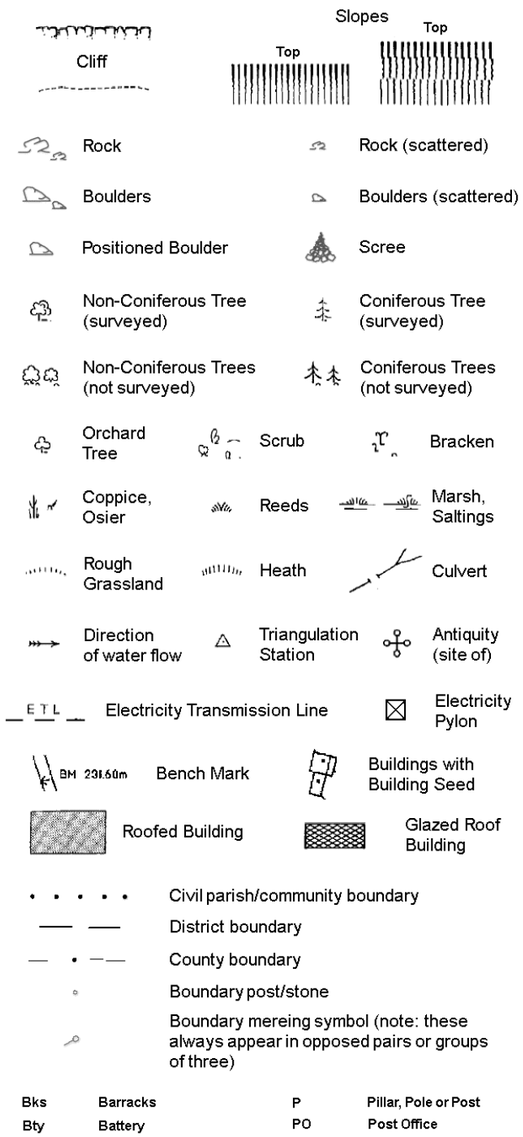
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

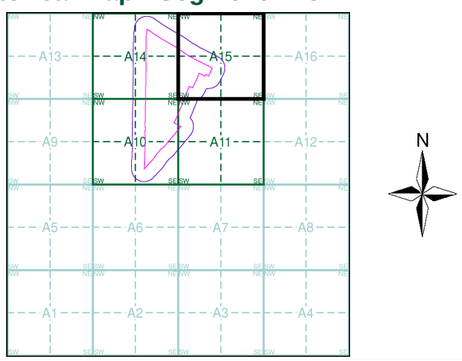
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:2,500	1884	2
Suffolk	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1995	5

Historical Map - Segment A15



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

PRN1 Darsham Station, Darsham, Suffolk

Landmark® Information Group
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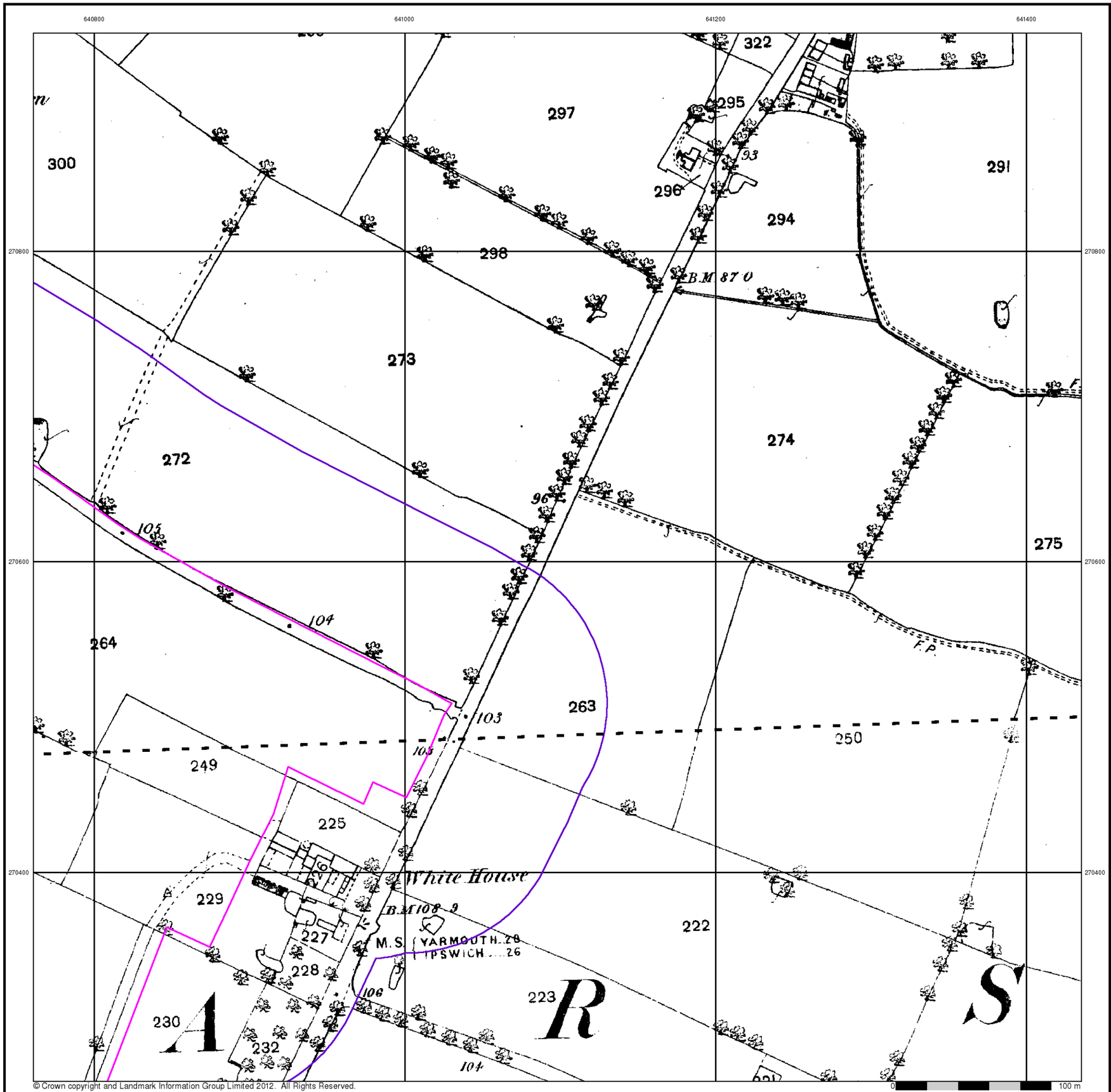
Web: www.envirocheck.co.uk



amec

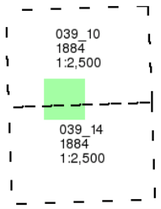
Suffolk

Published 1884

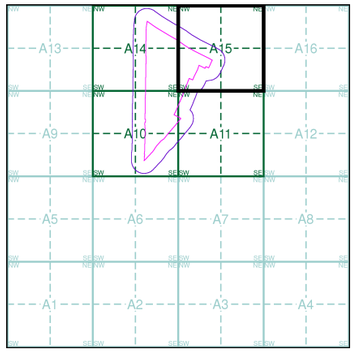
Source map scale - 1:2,500

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 A15



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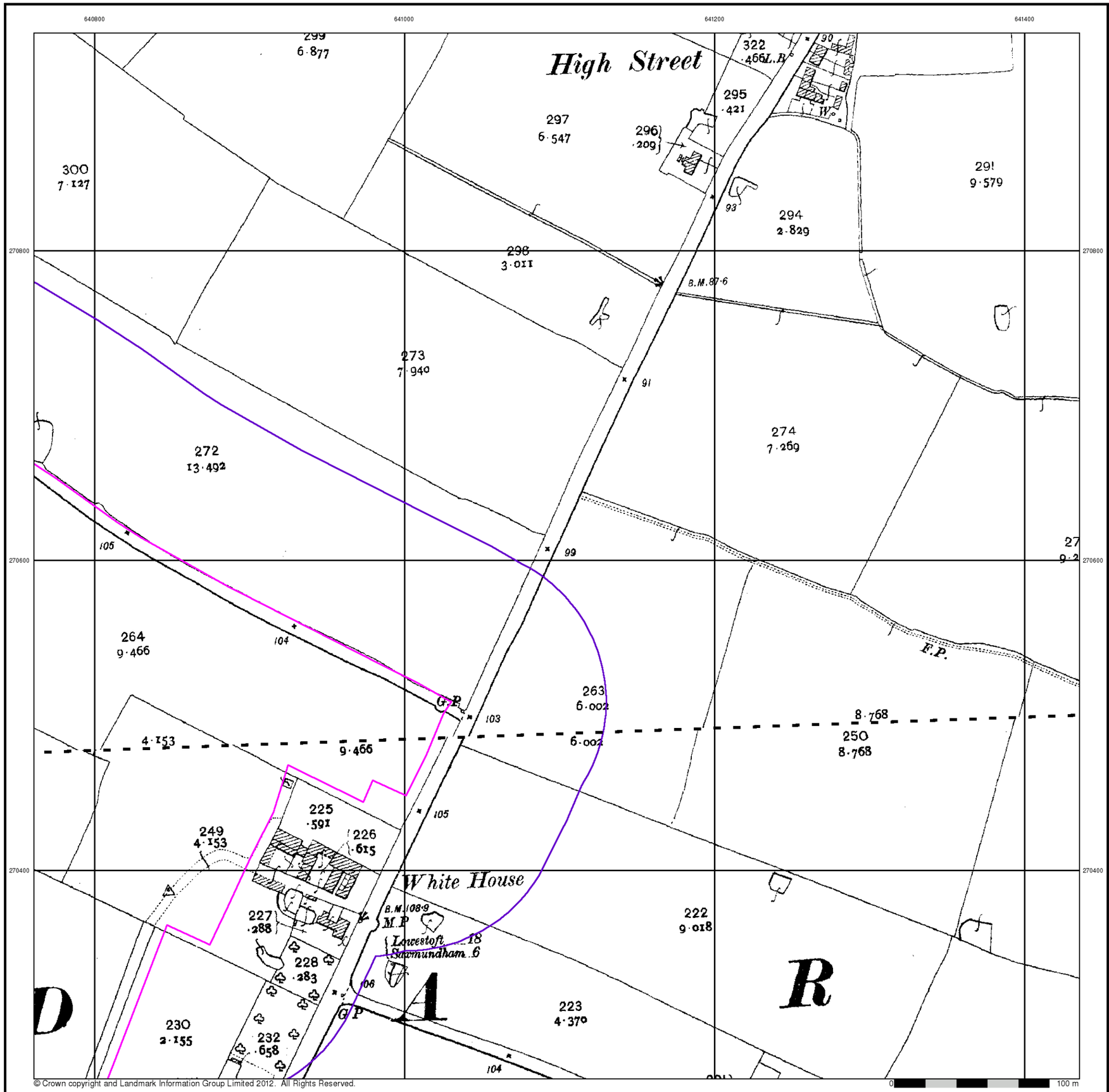

Suffolk

Published 1904

Source map scale - 1:2,500

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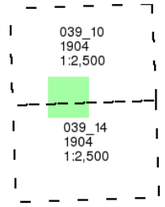
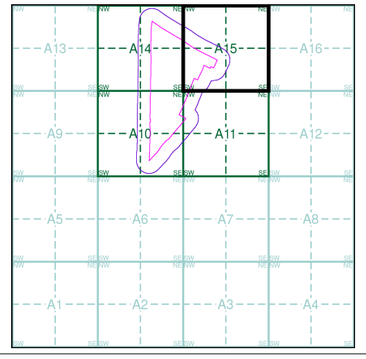
Map Name(s) and Date(s)



Historical Map - Segment A15



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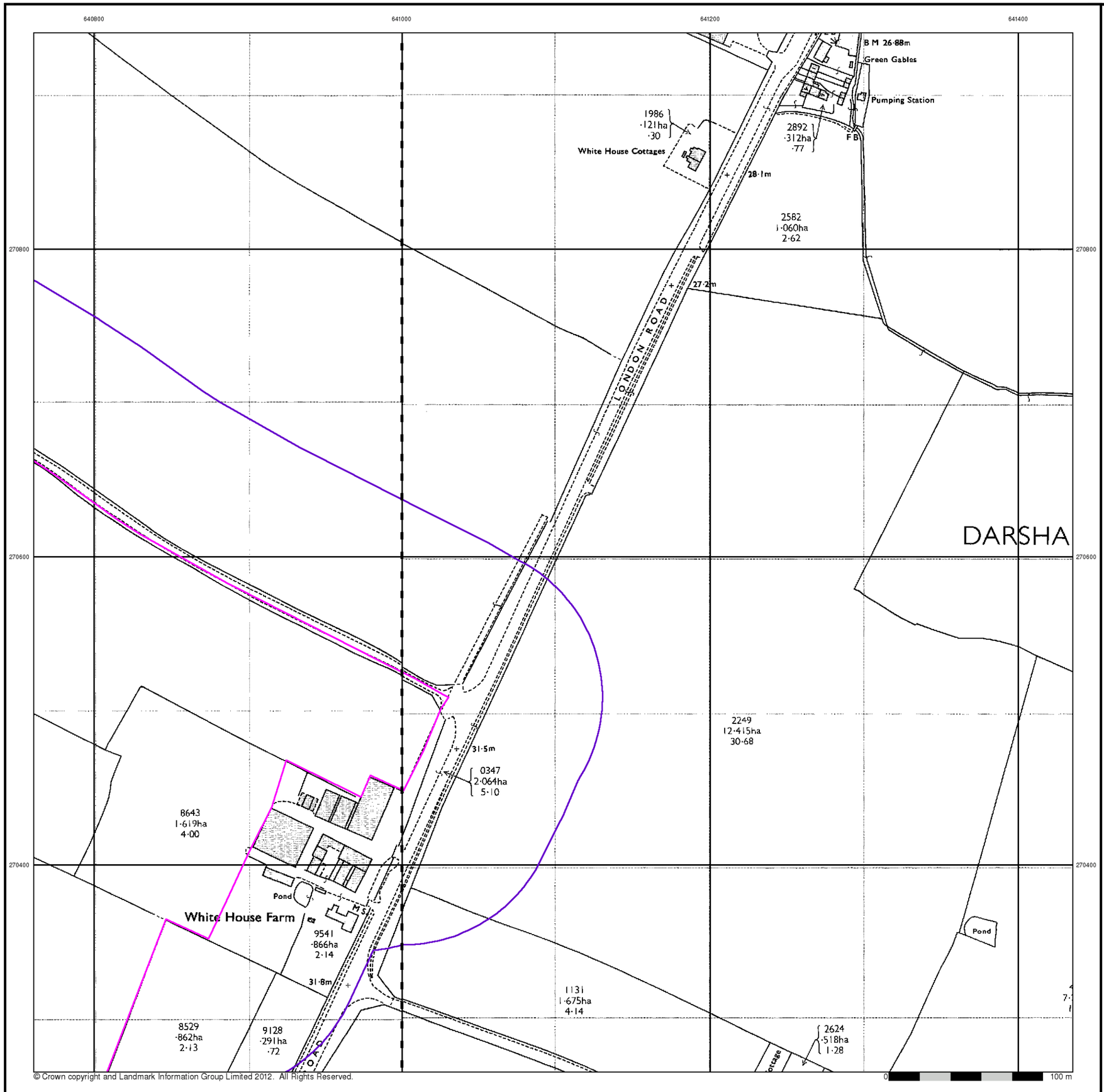


amec

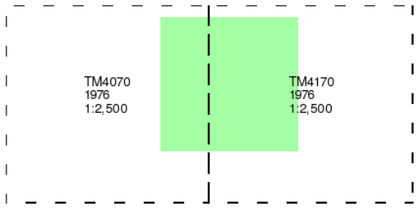
Ordnance Survey Plan

Published 1976

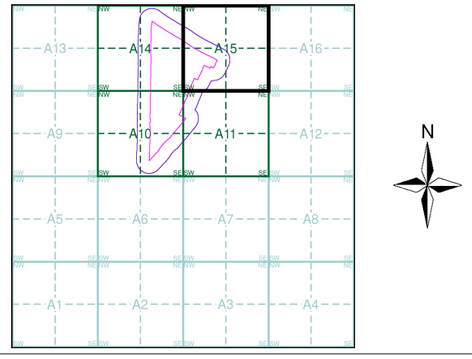
Source map scale - 1:2,500

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 A15



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	100

Site Details

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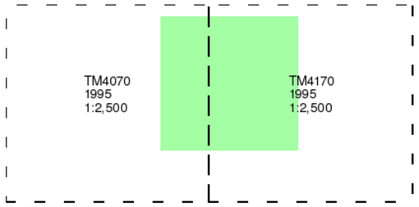
Large-Scale National Grid Data

Published 1995

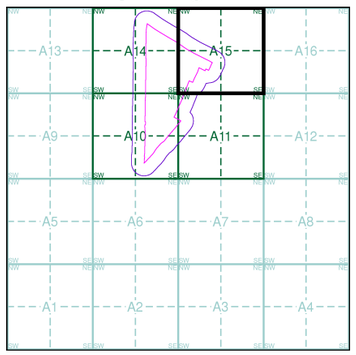
Source map scale - 1:2,500

'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 A15



Order Details

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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

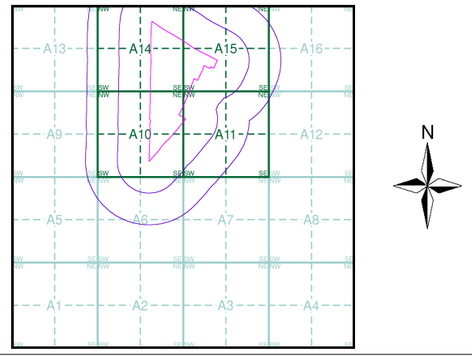
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m 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

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:10,560	1884 - 1885	2
Suffolk	1:10,560	1905	3
Suffolk	1:10,560	1928	4
Suffolk	1:10,560	1950 - 1951	5
Ordnance Survey Plan	1:10,000	1957 - 1958	6
Ordnance Survey Plan	1:10,000	1957	7
Ordnance Survey Plan	1:10,000	1979	8
Ordnance Survey Plan	1:10,000	1982 - 1984	9
Ordnance Survey Plan	1:10,000	1991	10
10K Raster Mapping	1:10,000	2012	11

Historical Map - Slice A



Order Details

Order Number: 40176294_1_1
Customer Ref: 32623
National Grid Reference: 640660, 269970
Slice: A
Site Area (Ha): 27.98
Search Buffer (m): 500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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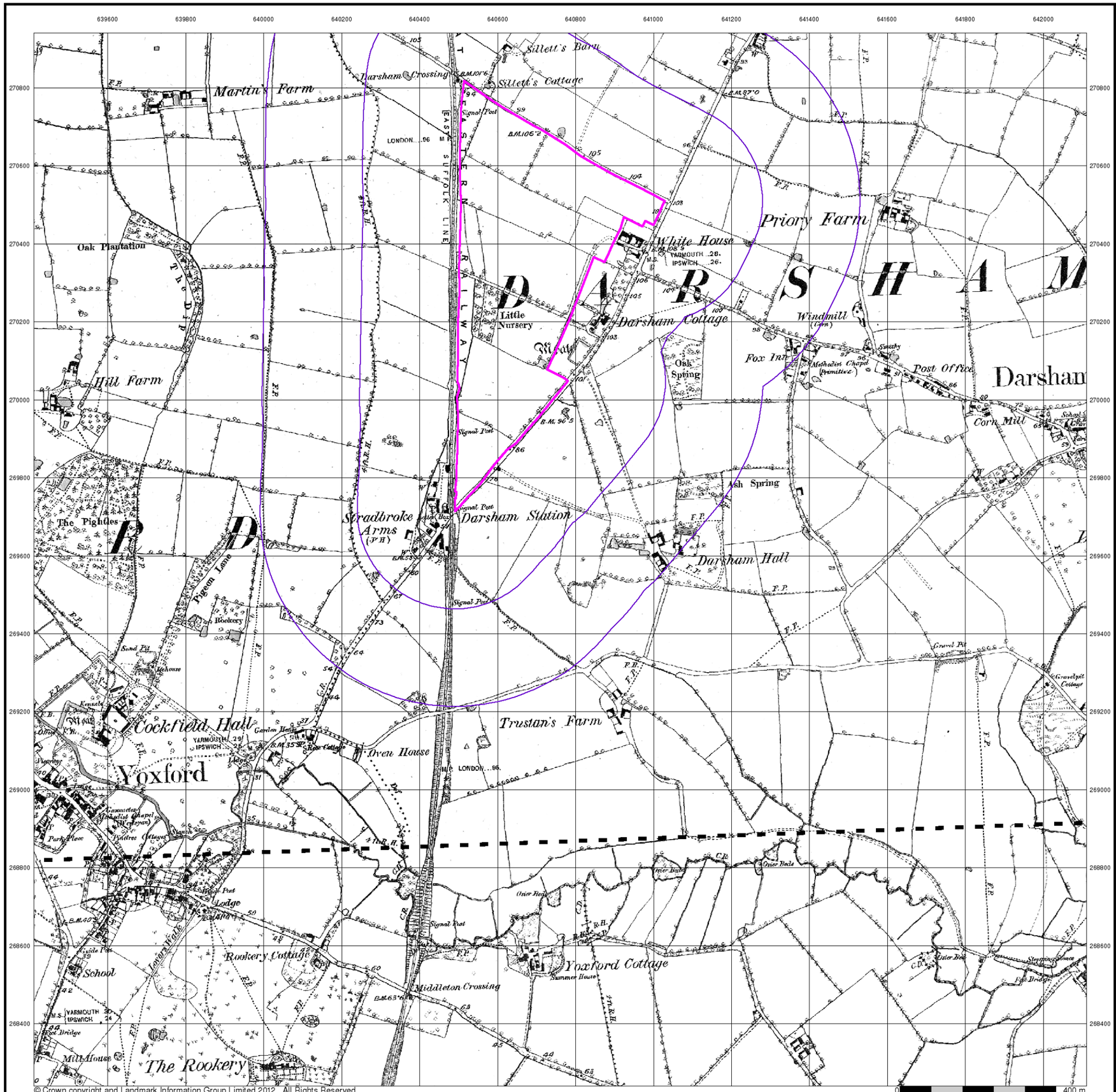


amec

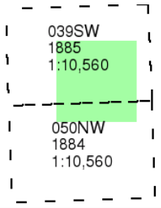
Suffolk

Published 1884 - 1885

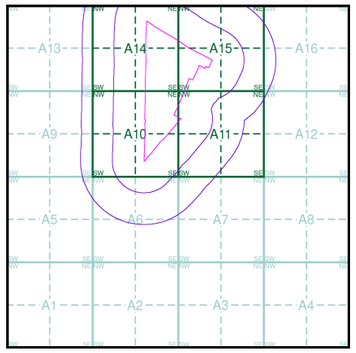
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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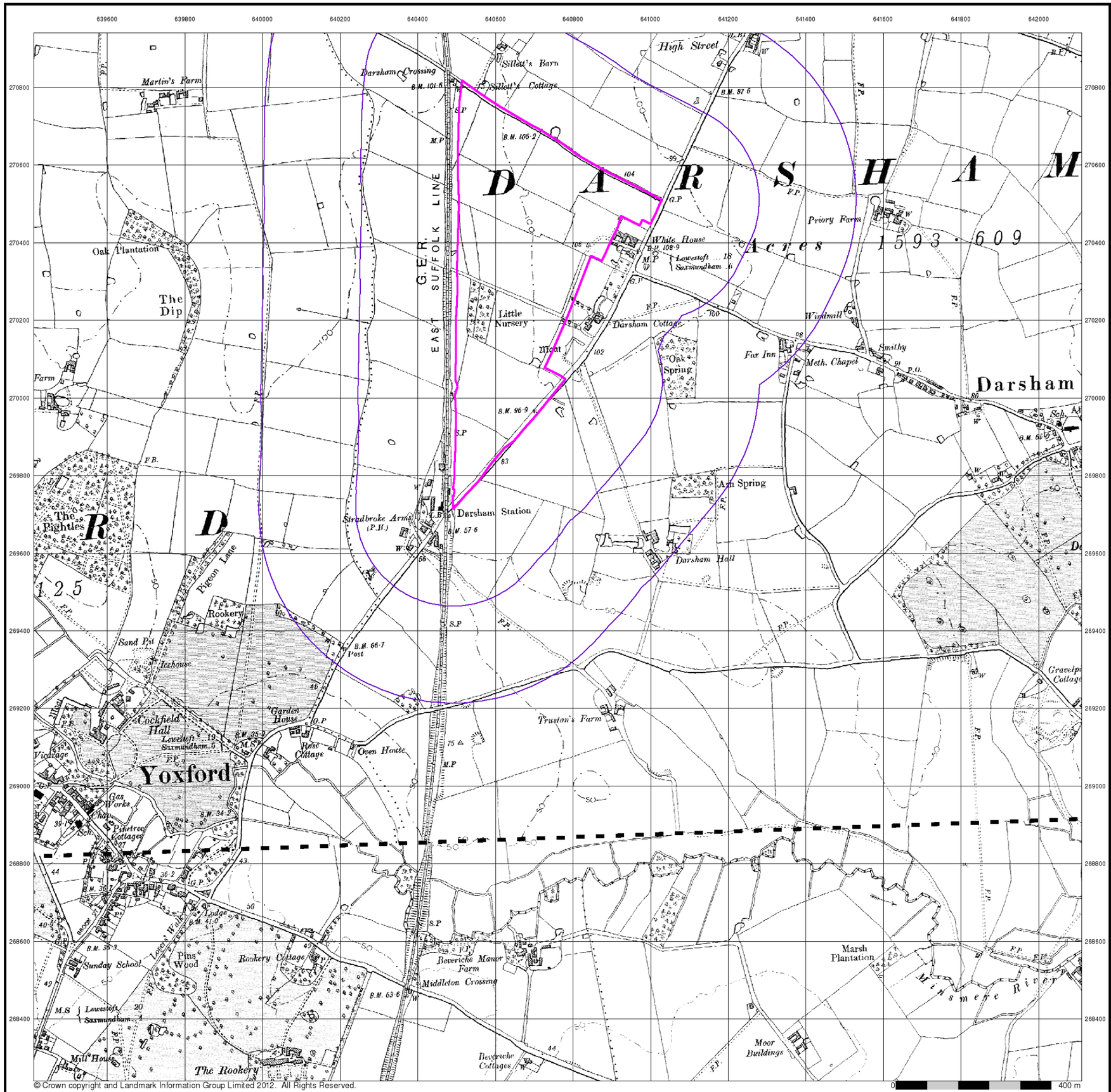

Suffolk

Published 1905

Source map scale - 1:10,560

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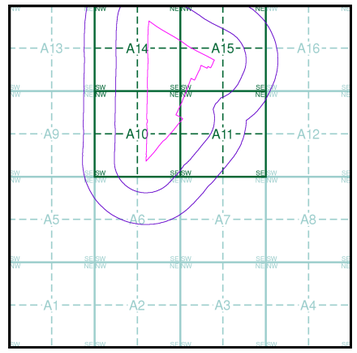
Map Name(s) and Date(s)

039SW
1905
1:10,560

050NW
1905
1:10,560

Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
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Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

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Suffolk

Published 1928

Source map scale - 1:10,560

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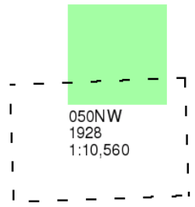
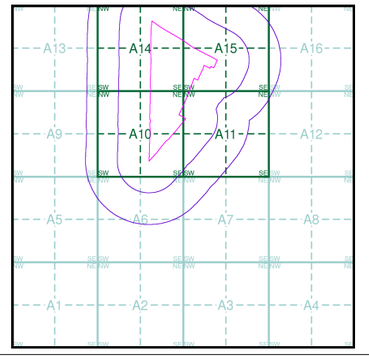
Map Name(s) and Date(s)



Historical Map - Slice A



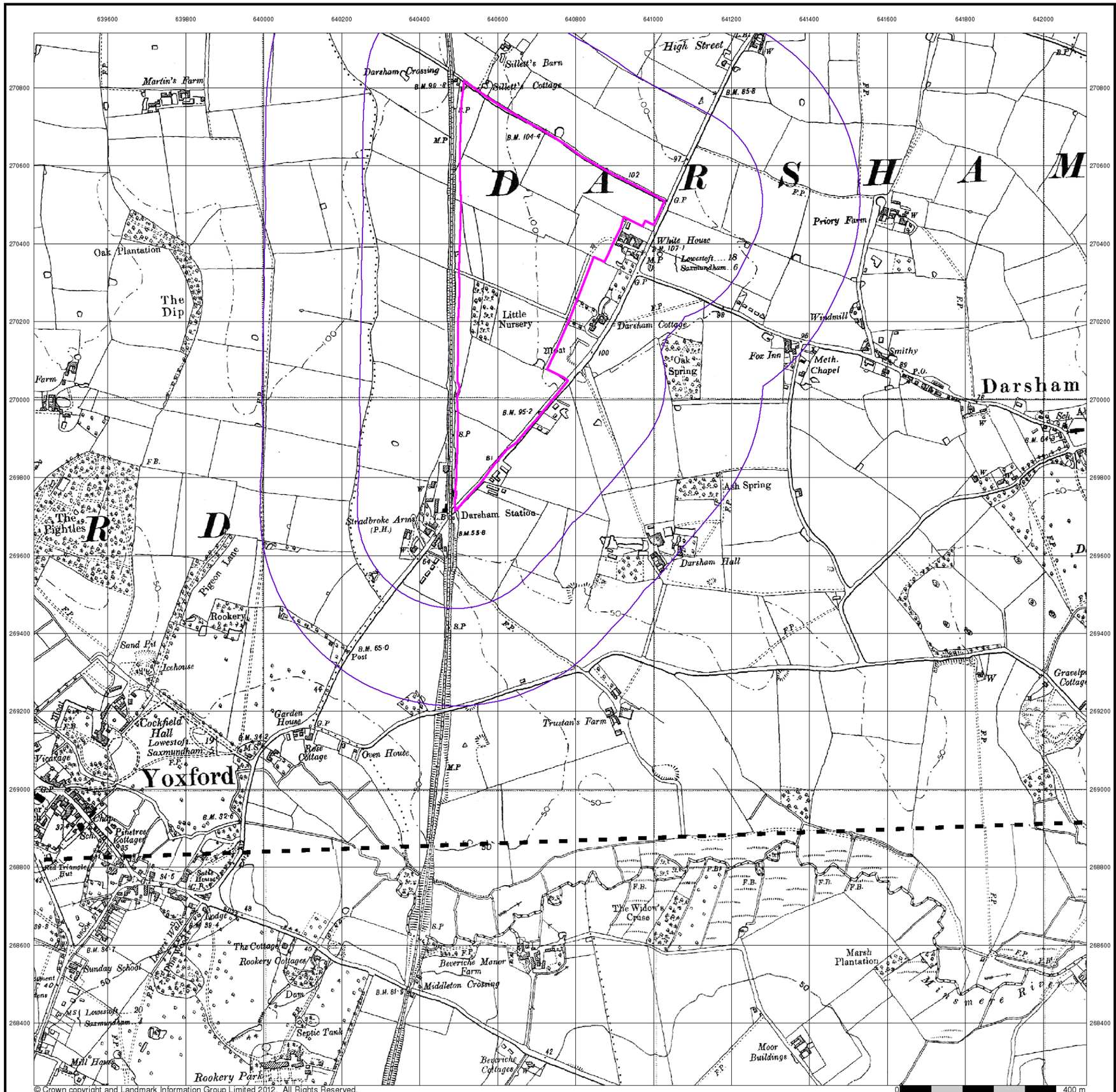
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



amec

Suffolk

Published 1950 - 1951

Source map scale - 1:10,560

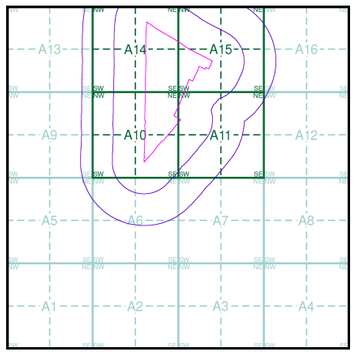
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

039SW
1951
1:10,560

050NW
1950
1:10,560

Historical Map - Slice A



Order Details

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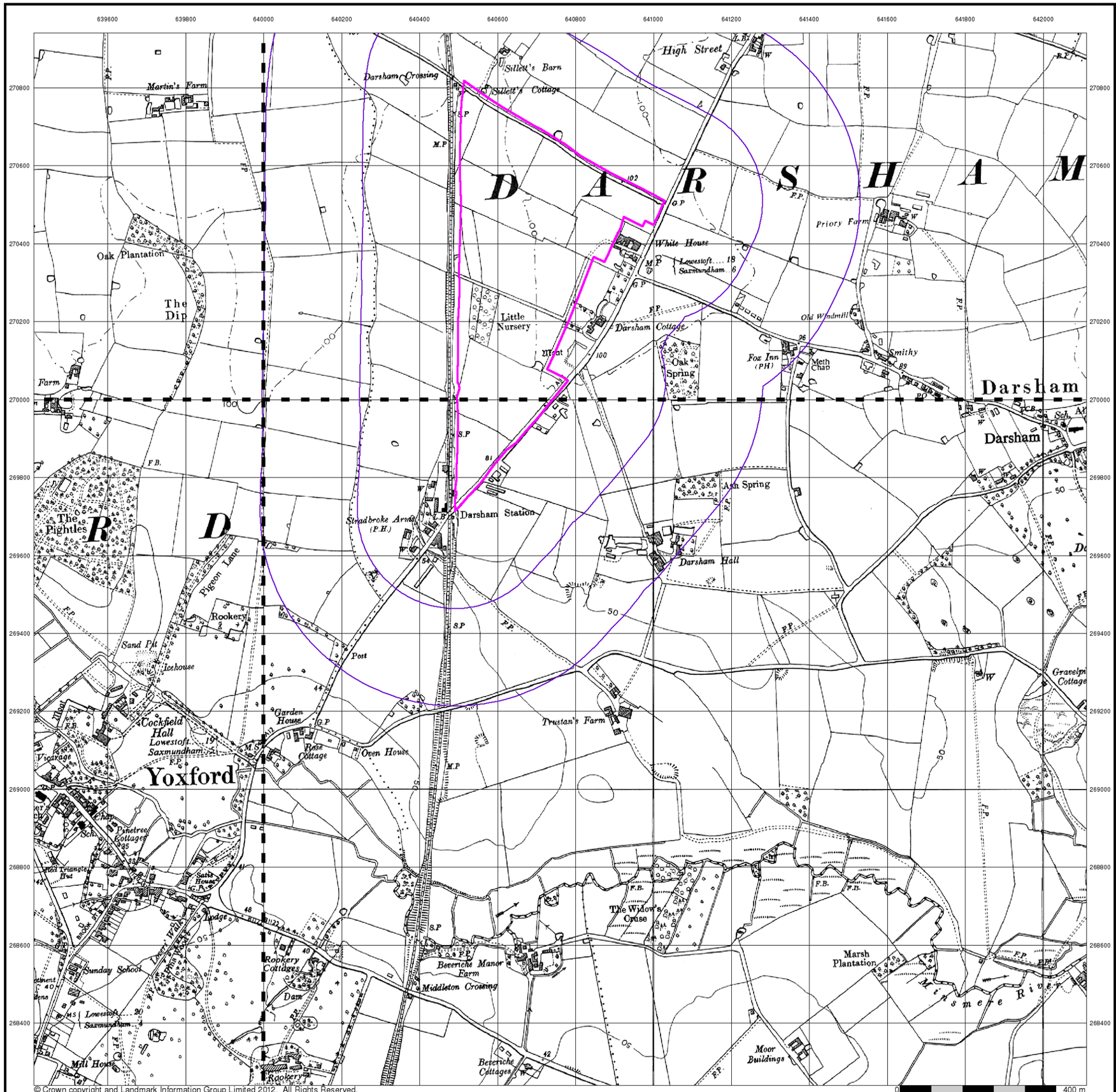

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Ordnance Survey Plan

Published 1957 - 1958

Source map scale - 1:10,000

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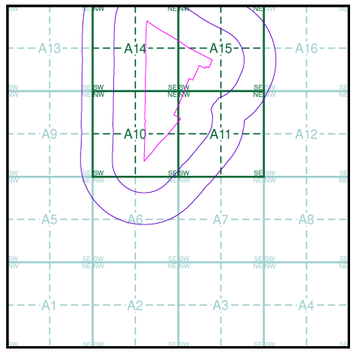
Map Name(s) and Date(s)

TM37SE 1957 1:10,560	TM47SW 1958 1:10,560
TM36NE 1957 1:10,560	TM46NW 1957 1:10,560

Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
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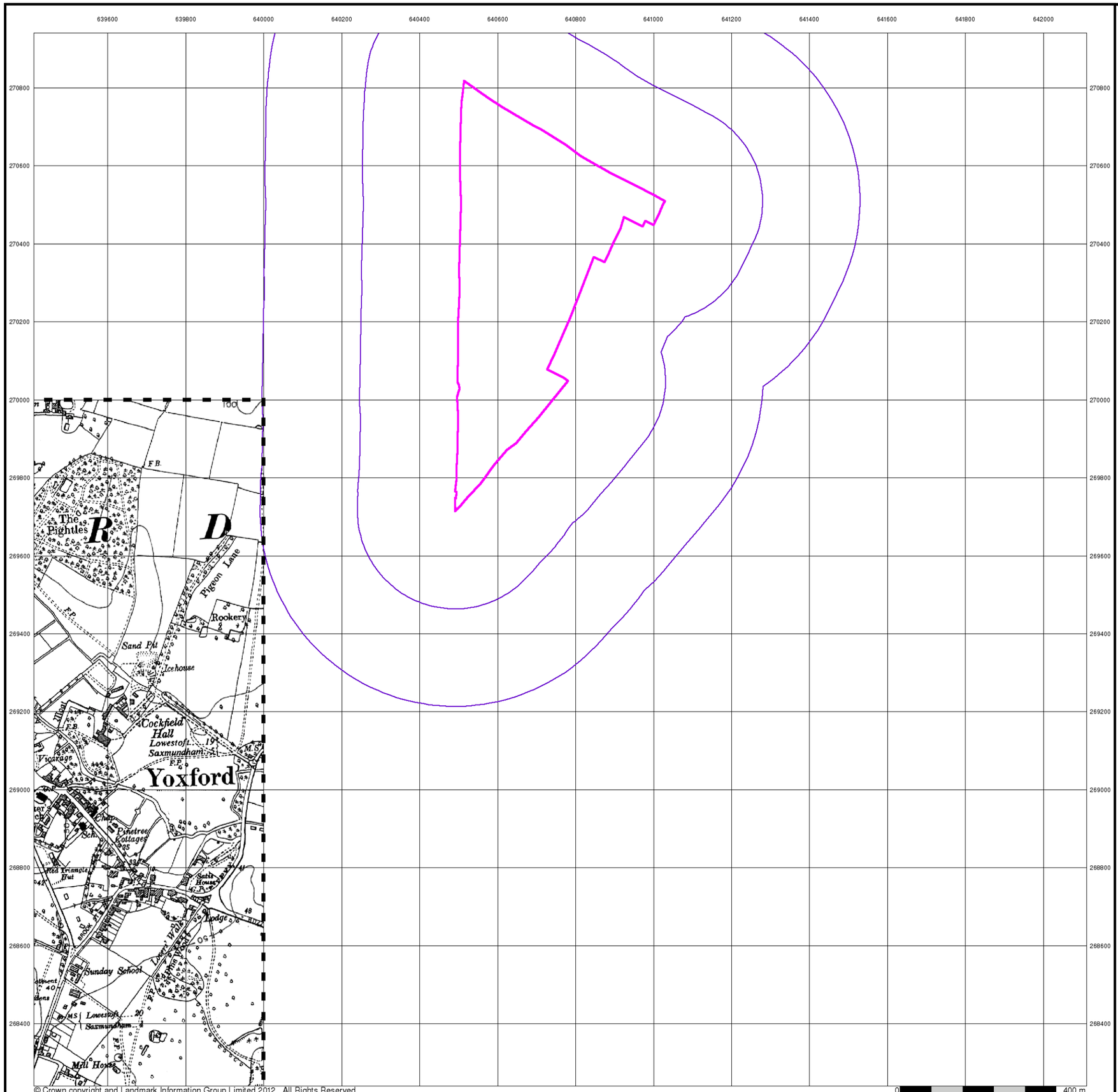

amec

Ordnance Survey Plan

Published 1957

Source map scale - 1:10,000

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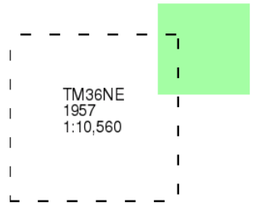
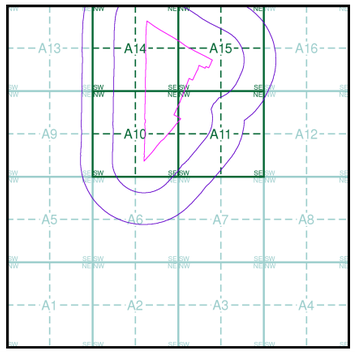


Historical Map - Slice A



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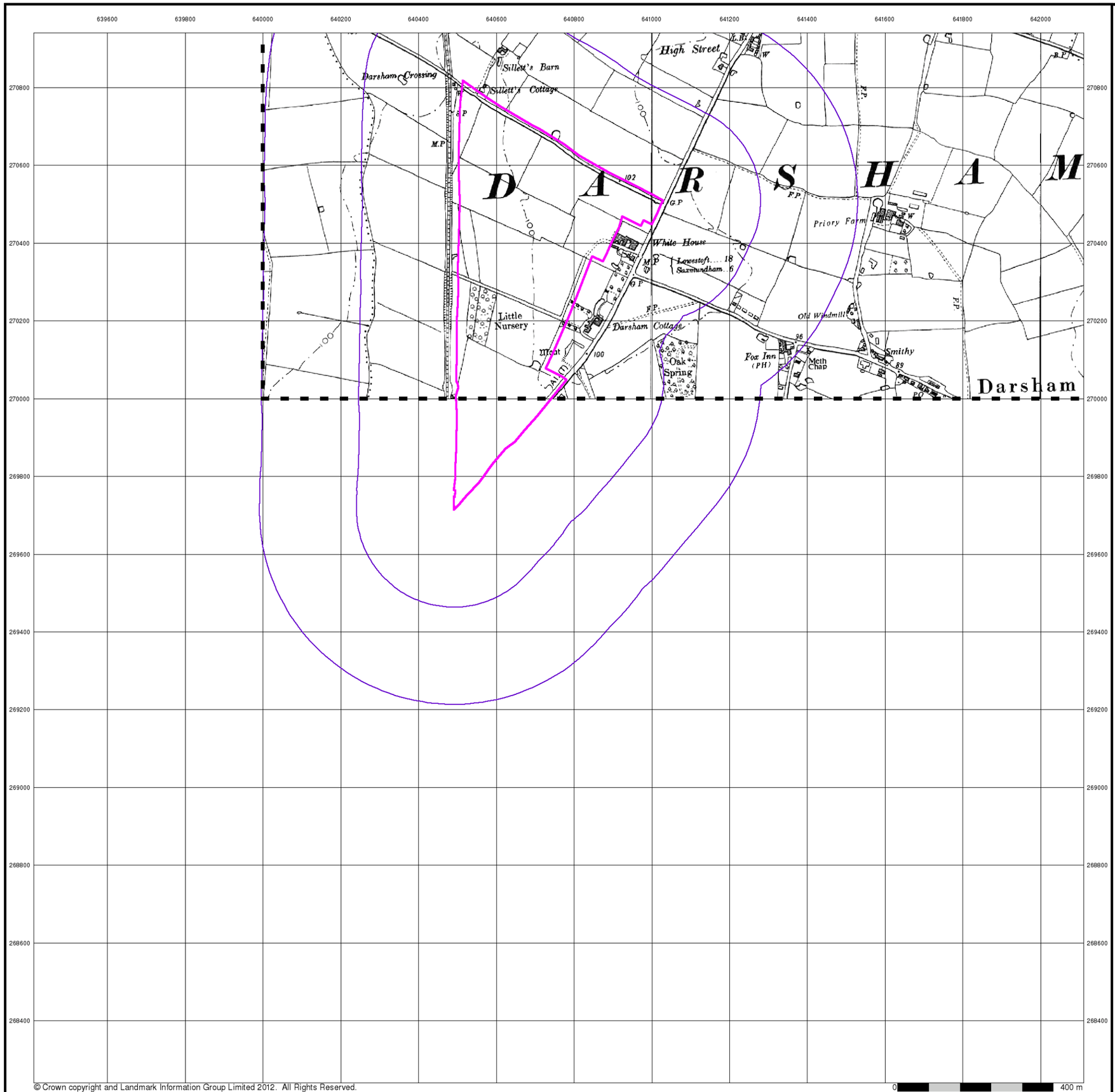

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Ordnance Survey Plan

Published 1979

Source map scale - 1:10,000

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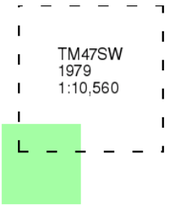
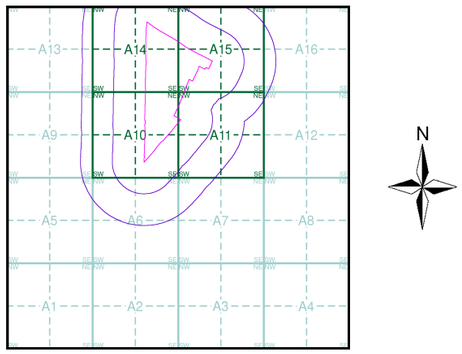
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

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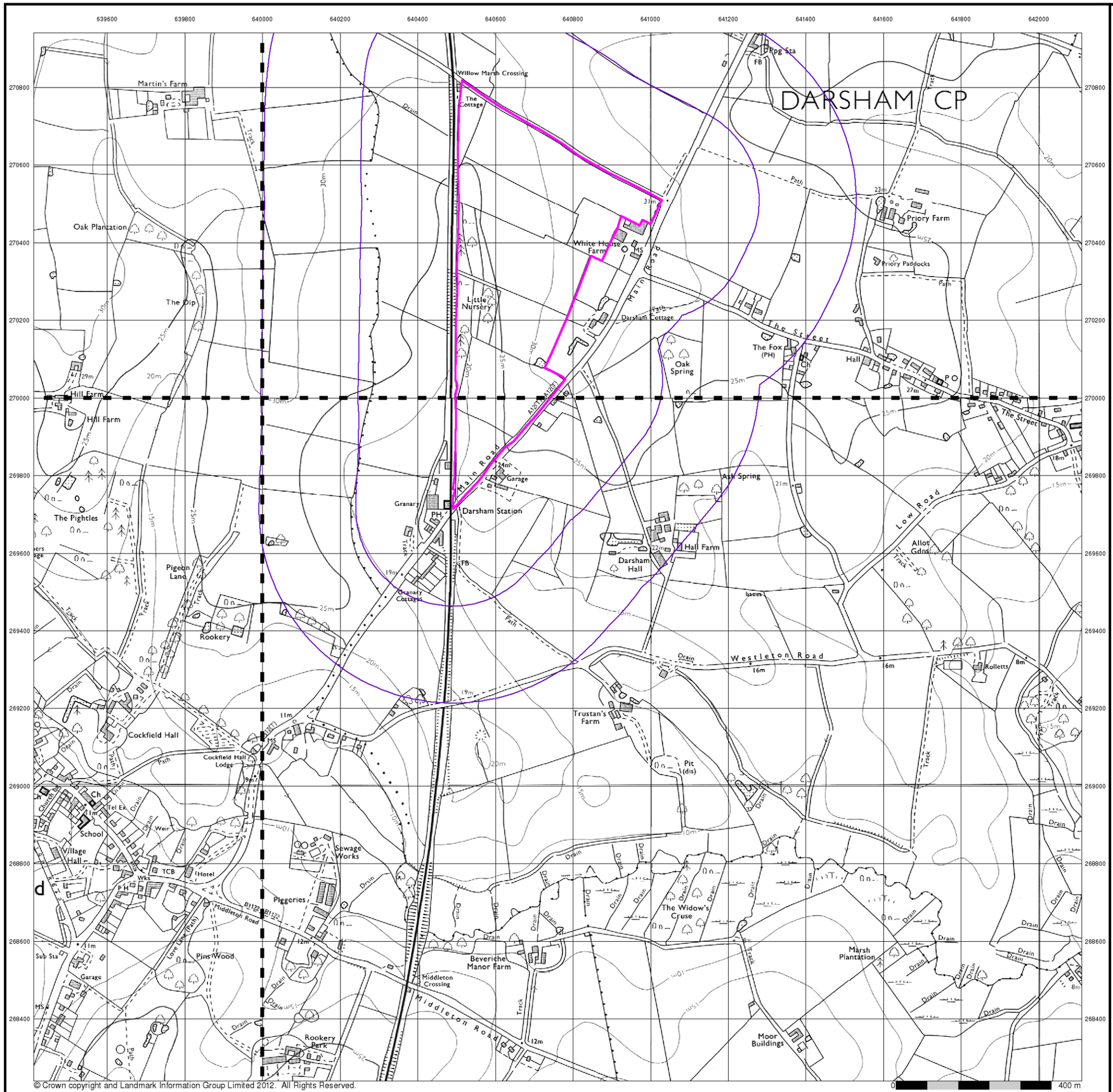

amec

Ordnance Survey Plan

Published 1982 - 1984

Source map scale - 1:10,000

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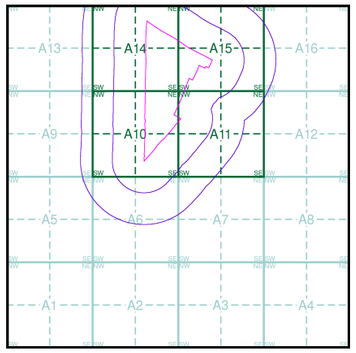
Map Name(s) and Date(s)

TM37SE 1982 1:10,000	TM47SW 1982 1:10,000
TM36NE 1984 1:10,000	TM46NW 1982 1:10,000

Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
Site Area (Ha):	27.98
Search Buffer (m):	500

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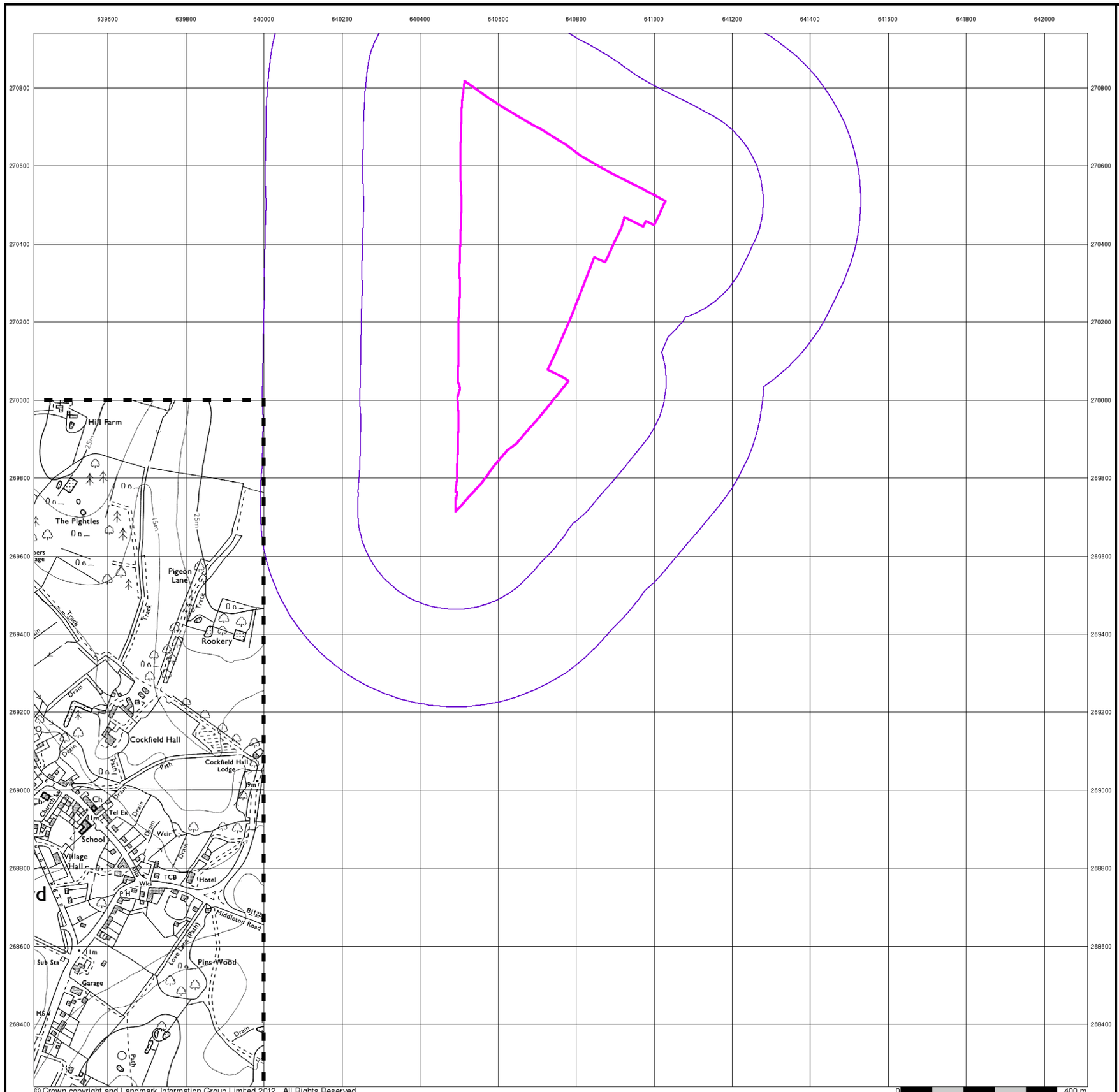

Ordnance Survey Plan

Published 1991

Source map scale - 1:10,000

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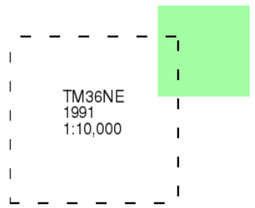
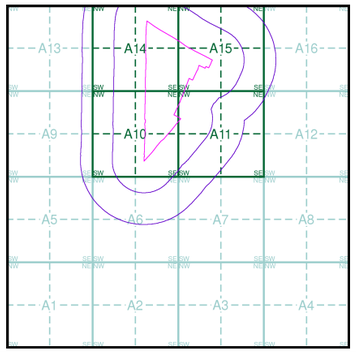
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
Slice:	A
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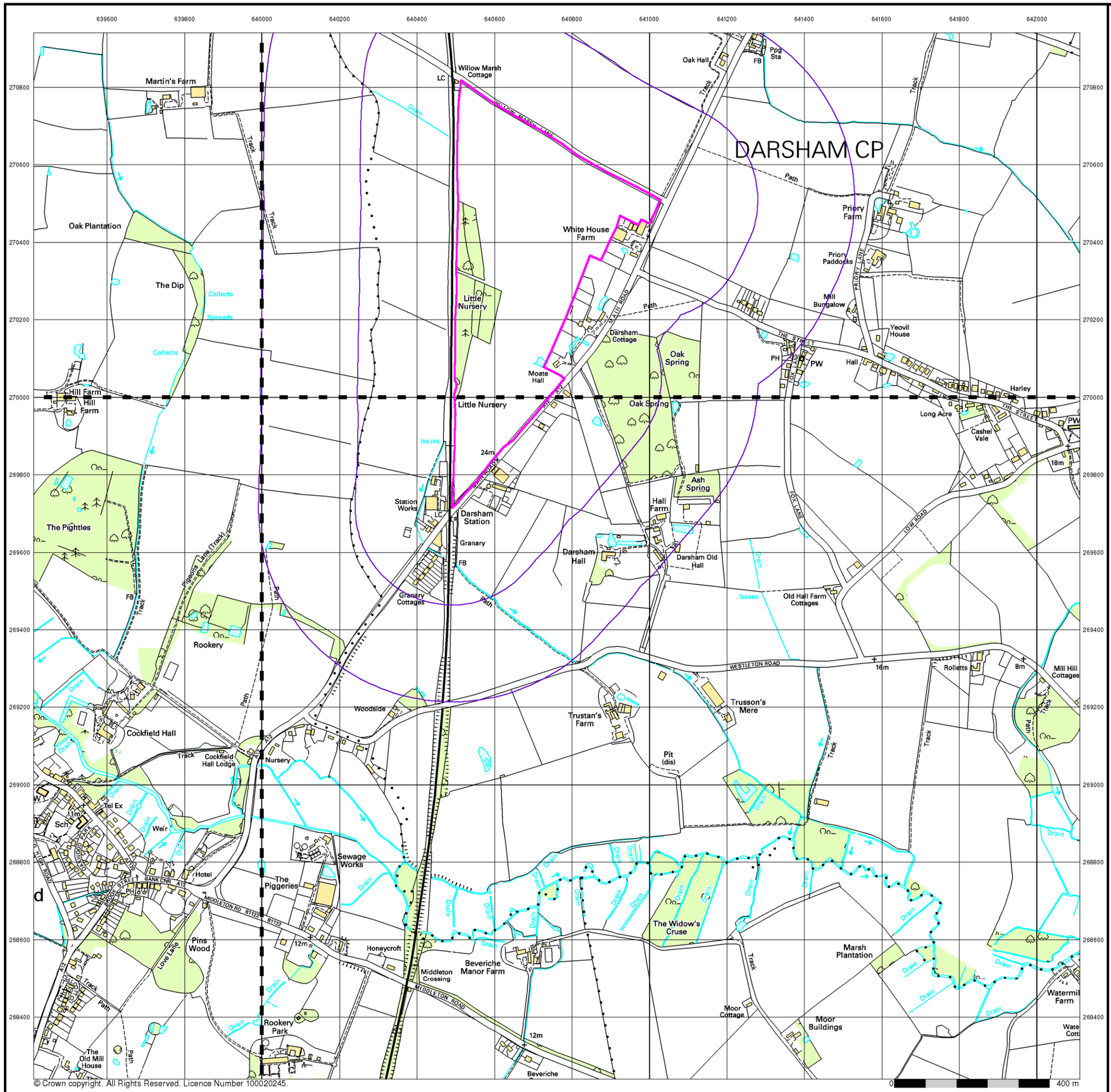


amec

10k Raster Mapping

Published 2012

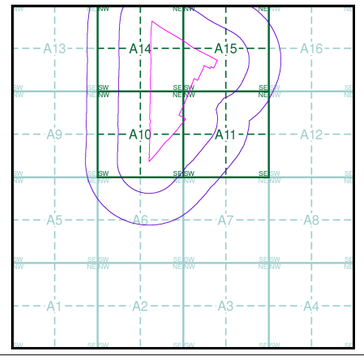
Source map scale - 1:10,000

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)

TM37SE 2012 1:10,000	TM47SW 2012 1:10,000
TM36NE 2012 1:10,000	TM46NW 2012 1:10,000

Historical Map - Slice A



Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640660, 269970
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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

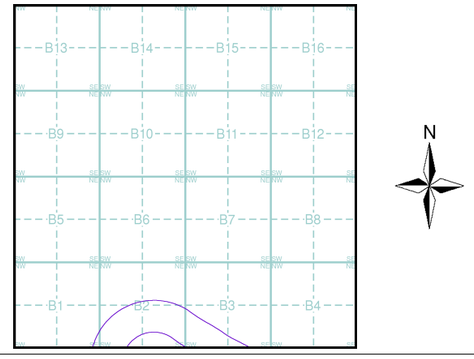
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m 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

amec

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:10,560	1885 - 1886	2
Suffolk	1:10,560	1905	3
Suffolk	1:10,560	1951	4
Ordnance Survey Plan	1:10,000	1957 - 1958	5
Ordnance Survey Plan	1:10,000	1979	6
Ordnance Survey Plan	1:10,000	1982	7
10K Raster Mapping	1:10,000	2012	8

Historical Map - Slice B



Order Details

Order Number: 40176294_1_1
Customer Ref: 32623
National Grid Reference: 640630, 271290
Slice: B
Site Area (Ha): 27.98
Search Buffer (m): 500

Site Details

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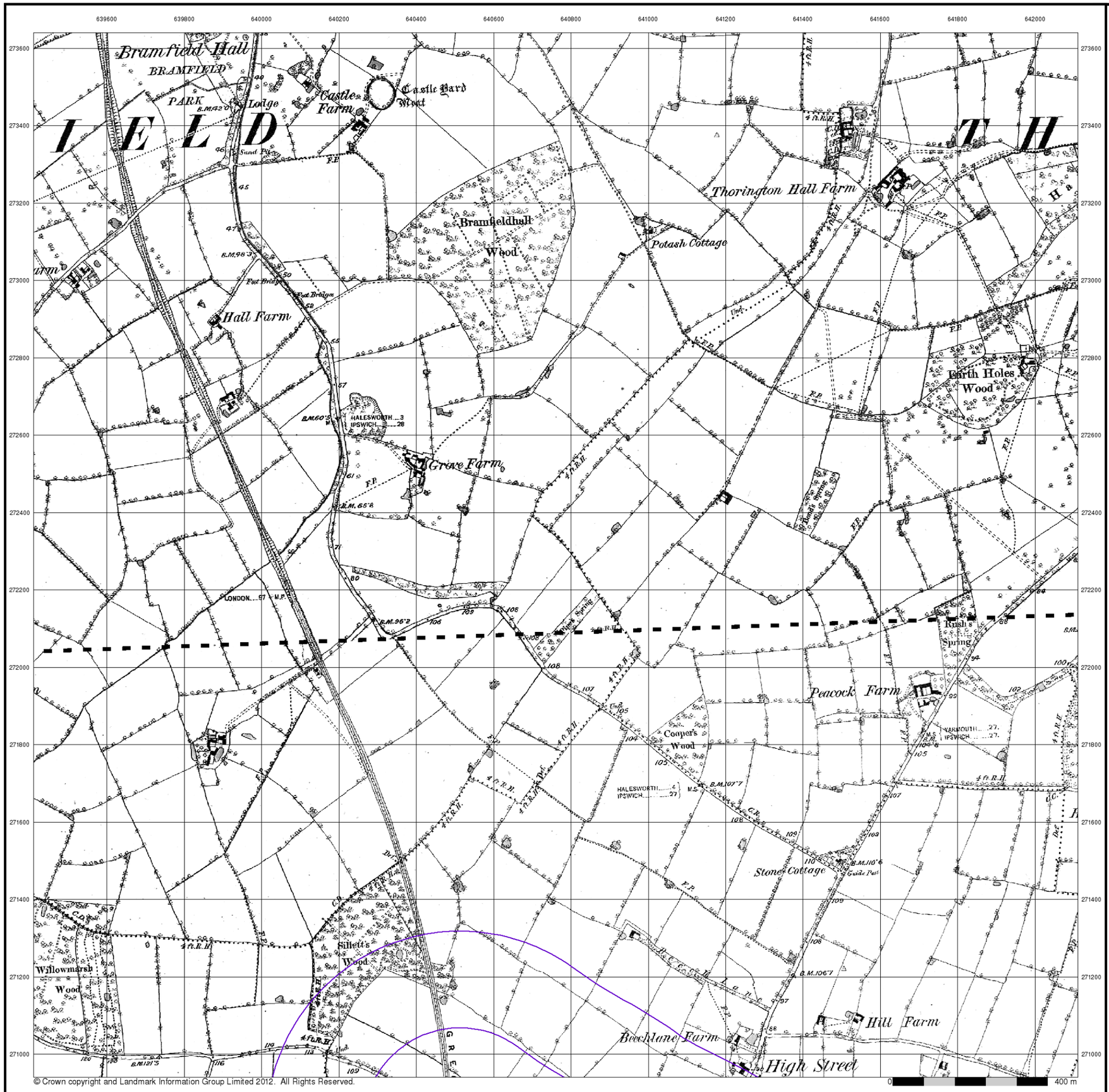

amec

Suffolk

Published 1885 - 1886

Source map scale - 1:10,560

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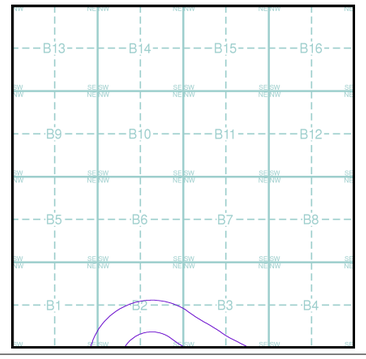
Map Name(s) and Date(s)

039NW
1886
1:10,560

039SW
1885
1:10,560

Historical Map - Slice B



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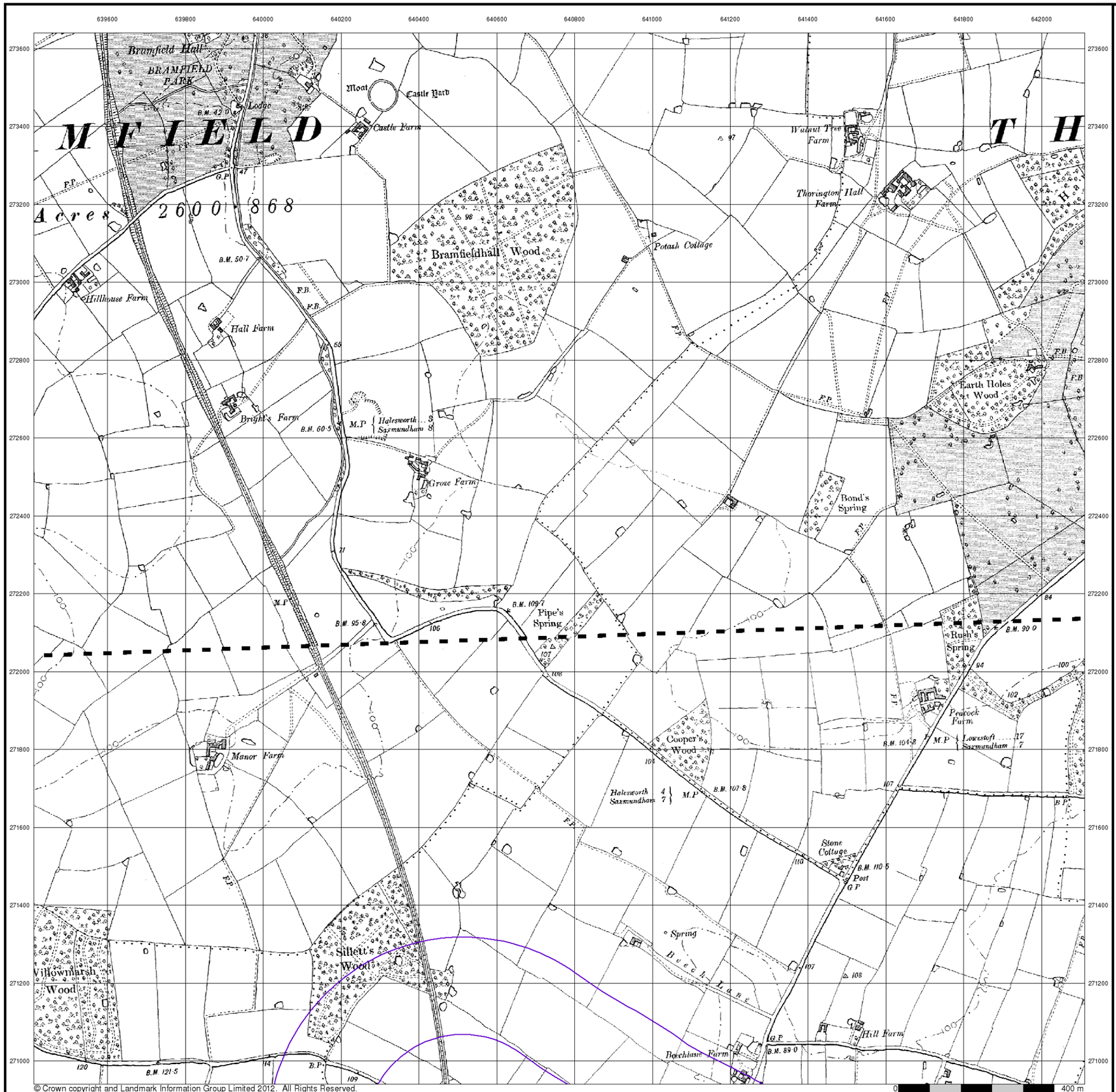

Suffolk

Published 1905

Source map scale - 1:10,560

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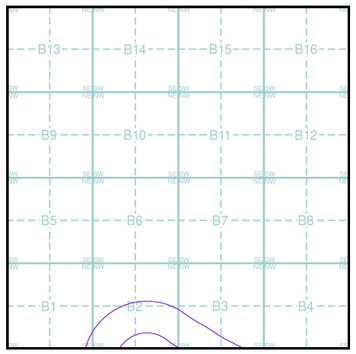
Map Name(s) and Date(s)

039NW
1905
1:10,560

039SW
1905
1:10,560

Historical Map - Slice B



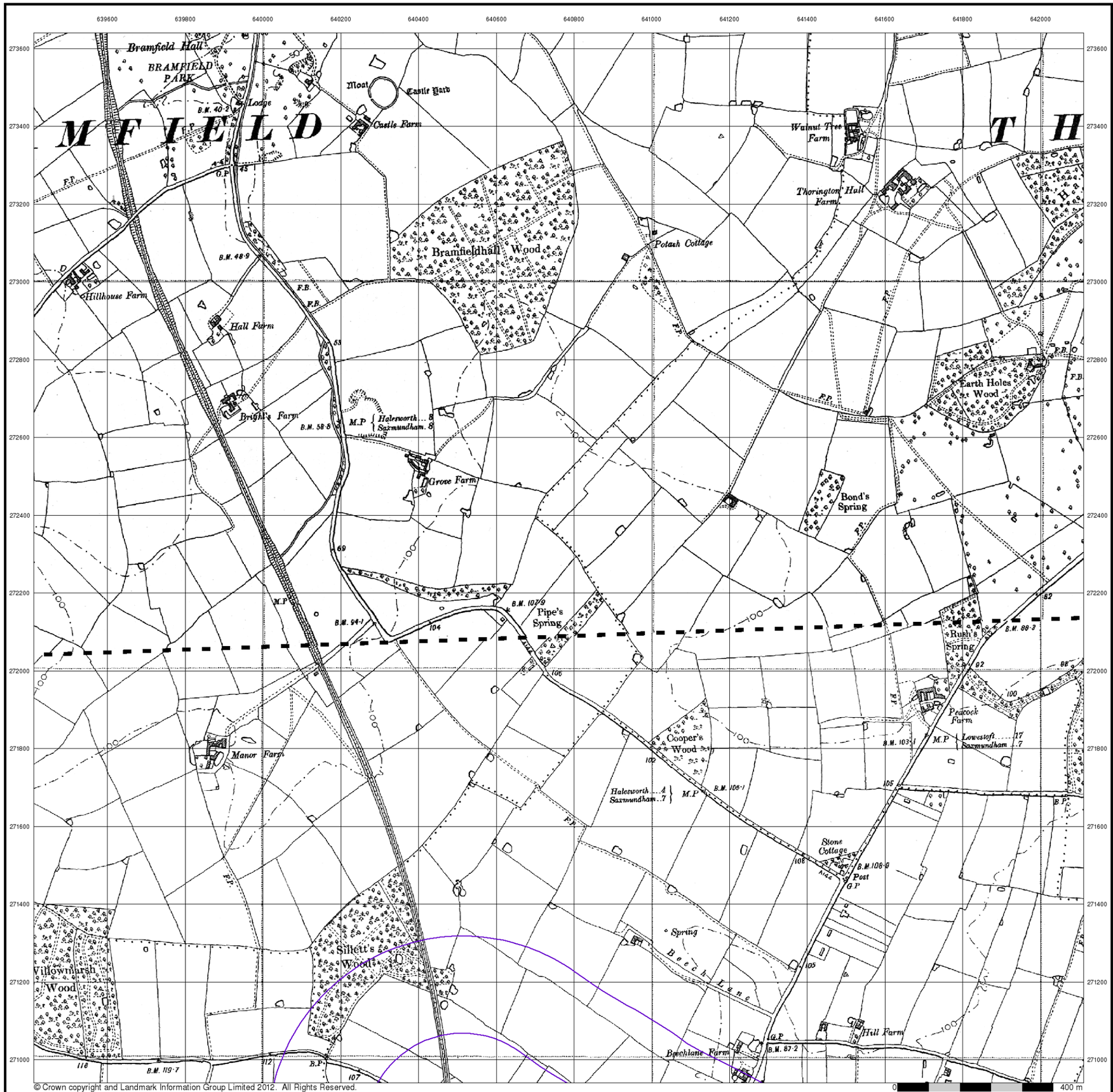
Order Details

Order Number:	40176294_1_1
Customer Ref:	32623
National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
Search Buffer (m):	500

Site Details

PRN1 Darsham Station, Darsham, Suffolk

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



Suffolk

Published 1951

Source map scale - 1:10,560

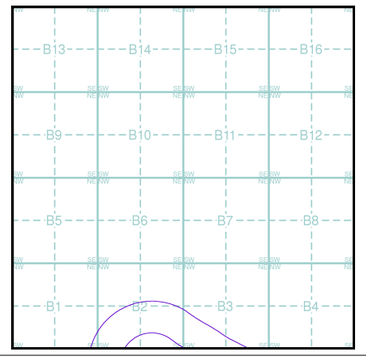
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

039NW
1951
1:10,560

039SW
1951
1:10,560

Historical Map - Slice B



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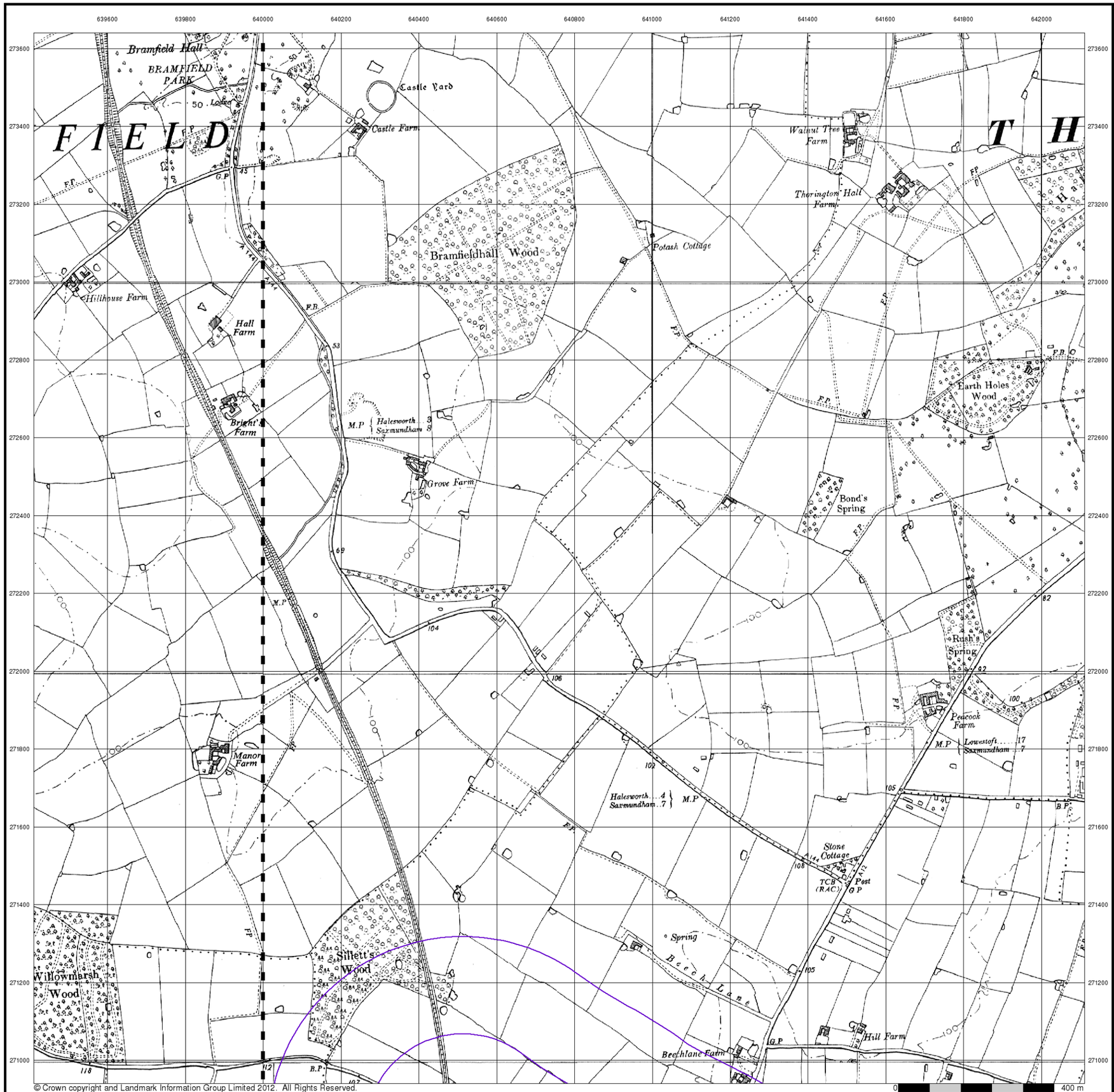


amec

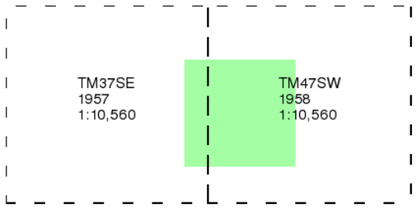
Ordnance Survey Plan

Published 1957 - 1958

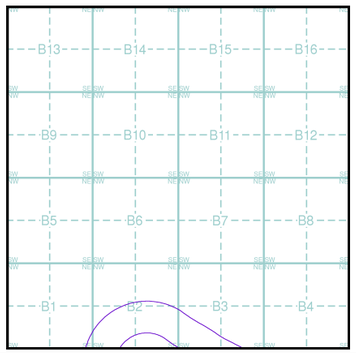
Source map scale - 1:10,000

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 B



Order Details

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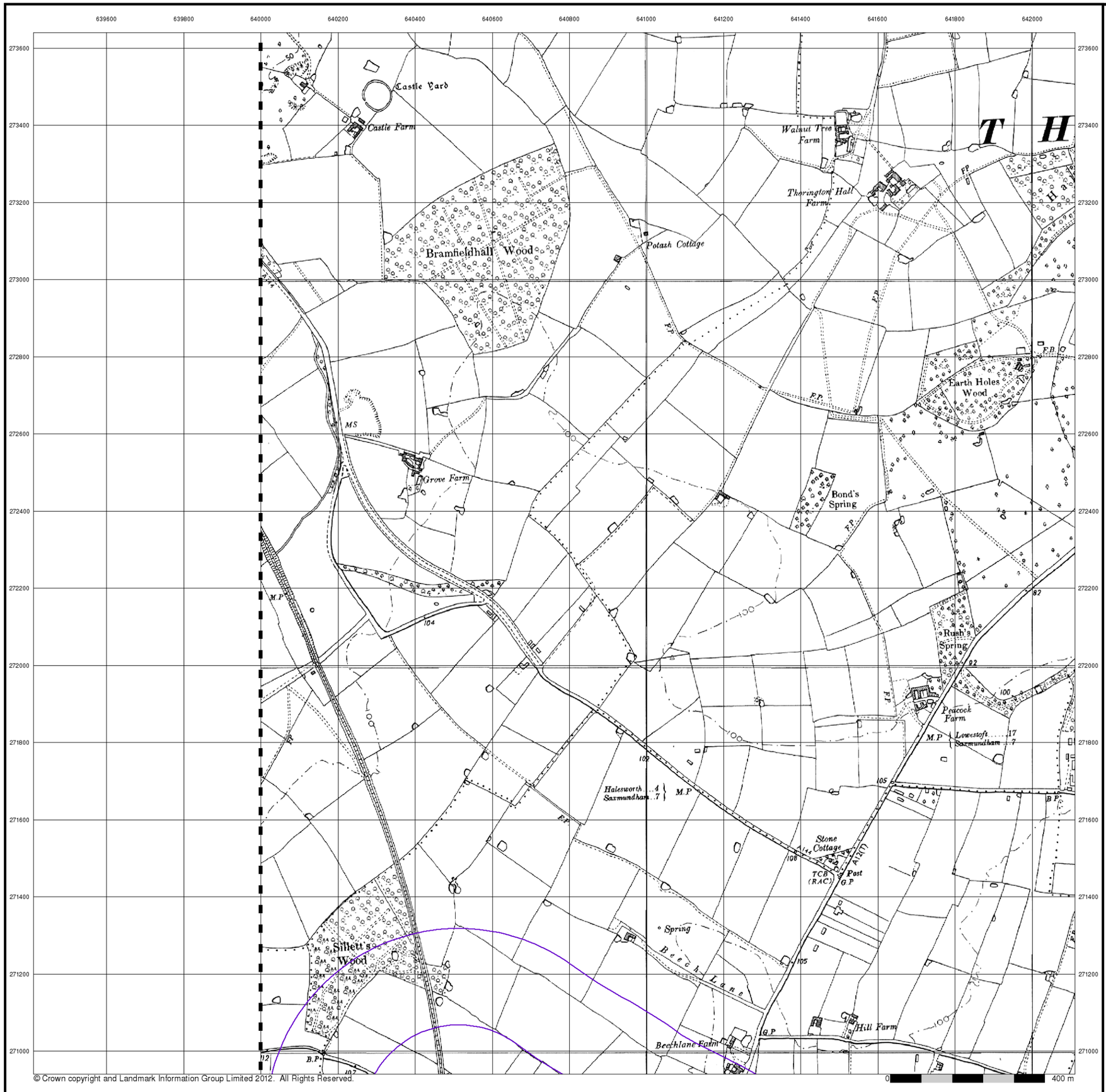


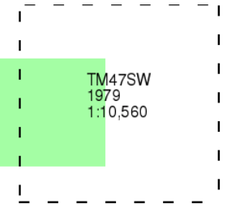
Ordnance Survey Plan

Published 1979

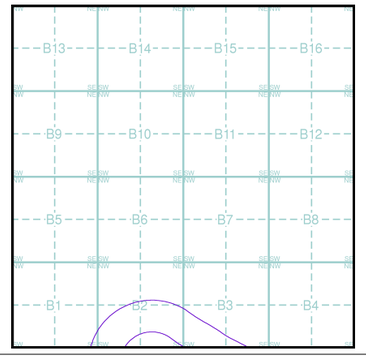
Source map scale - 1:10,000

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 B



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Slice:	B
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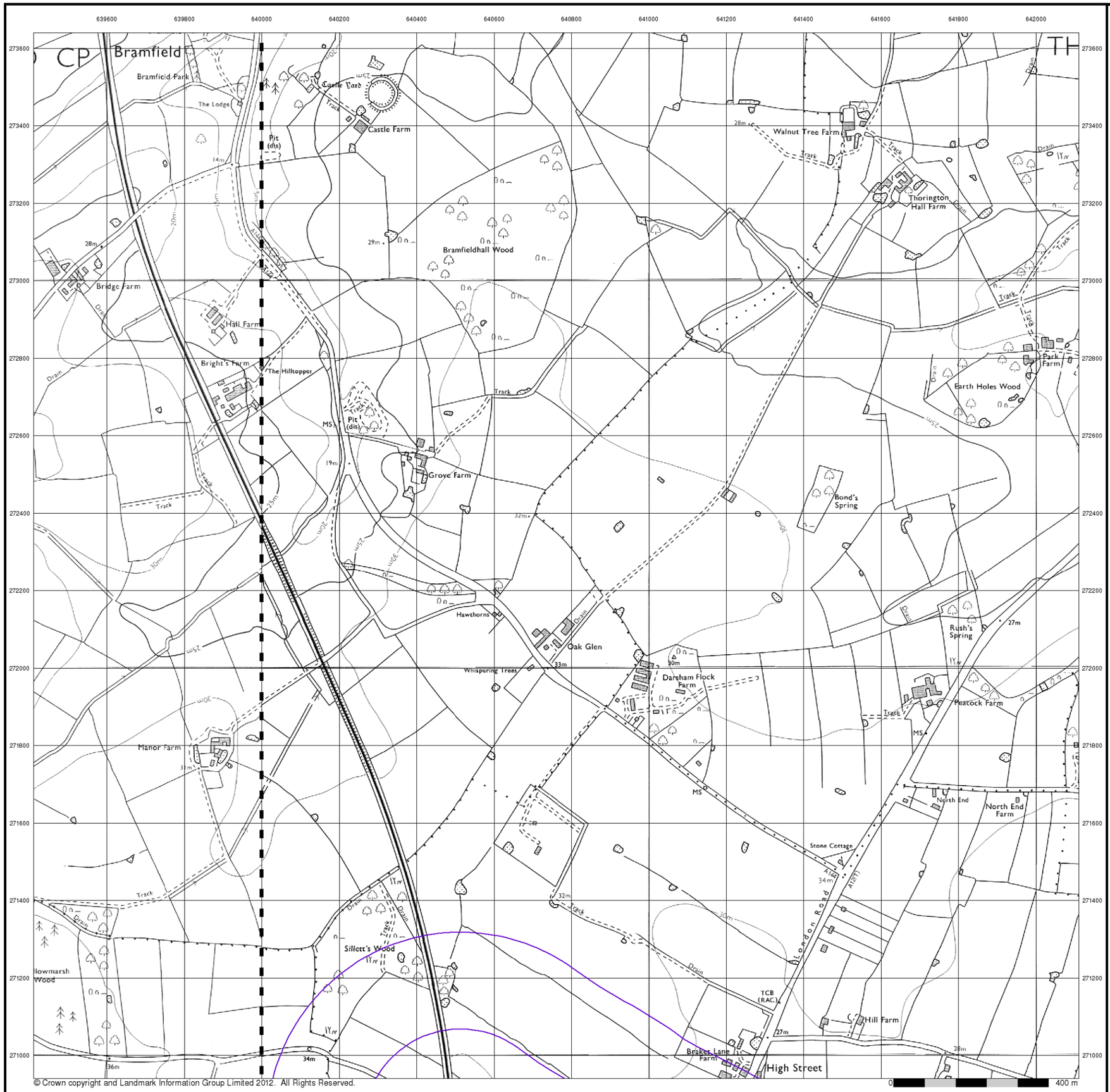


amec

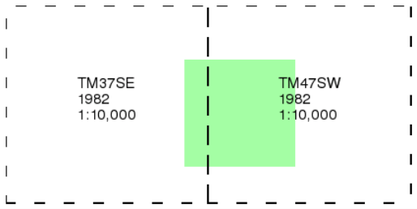
Ordnance Survey Plan

Published 1982

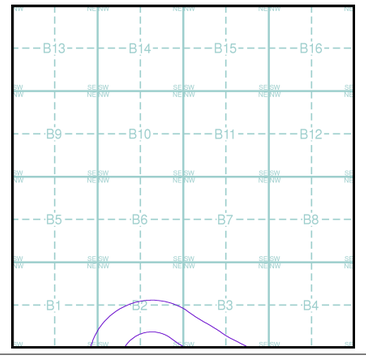
Source map scale - 1:10,000

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 B



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National Grid Reference:	640630, 271290
Slice:	B
Site Area (Ha):	27.98
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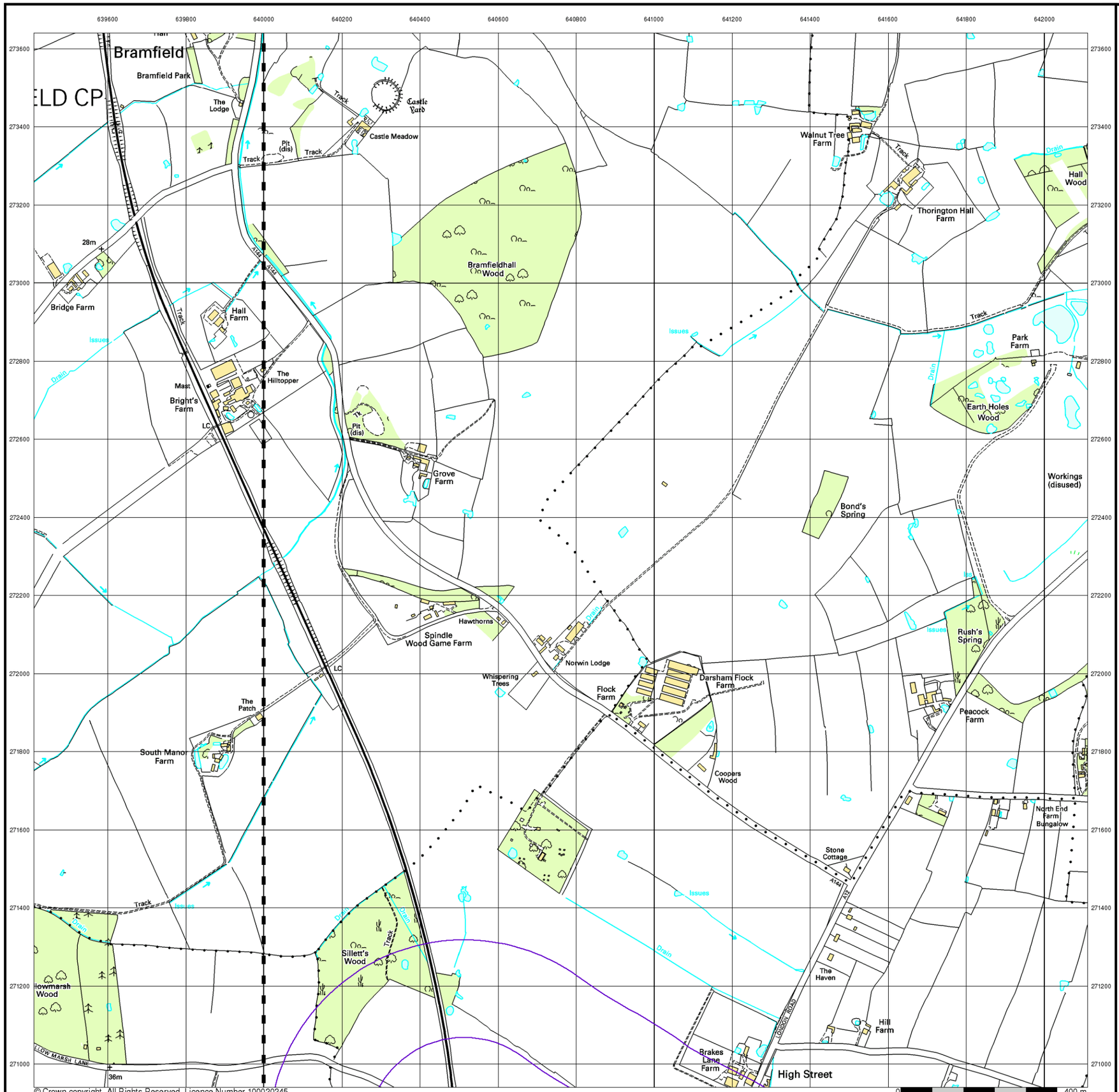


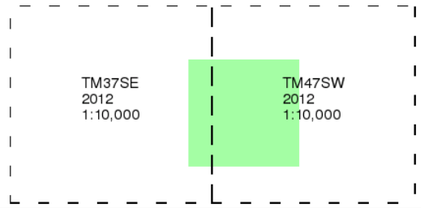
10k Raster Mapping

Published 2012

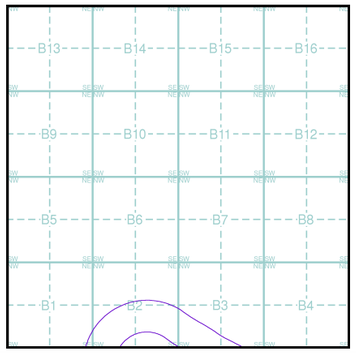
Source map scale - 1:10,000

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 B



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Appendix C. Zetica UXO Map

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Map Centre: 640505,269830

LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary | **industry** | **UXO find**
transport | **dock** | **Luftwaffe targets**
utilities | **other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Appendix D. Definitions of Probability and Consequence

Table D.1 - Risk estimation - classification of probability

Classification	Definition of the probability of harm / pollution occurring
High Likelihood	The contaminant linkage exists and it is very likely to result in harm / pollution in the short term, and/or will almost inevitably result in harm / pollution in the long term, and/or there is current evidence of harm/pollution. Likelihood is defined as more likely than not and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Likely	The source, pathway and receptor exist for the contaminant linkage and it is probable that harm / pollution will occur. Circumstances are such that harm / pollution is not inevitable, but possible in the short term and likely over the long term. Likelihood is defined as reasonably possible and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Low Likelihood	The source, pathway and receptor exist and it is possible that harm / pollution could occur. Circumstances are such that harm/pollution is by no means certain in the long term and less likely in the short term.
Unlikely	The source, pathway and receptor exist for the contaminant linkage but it is improbable that harm / pollution will occur even in the long term.

Table D.2 - Risk estimation - classification of consequence

Classification	Definition of consequence
Human Health Receptors – Site end user or other sensitive receptor	
Severe	Acute damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Chronic damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	No appreciable impact on human health based on the potential effects on the critical human receptor. Concentrations of contaminants above generic assessment criteria but below appropriate site specific assessment criteria.
Minor	No appreciable impact on human health based on the effects on the critical human receptor. Concentrations of contaminants below appropriate generic assessment criteria.
Human Health Receptors – Site construction workers	
Severe	Exposure to hazardous substances resulting in a reportable death, major injury, 3-day injury or illness/disease under RIDDOR.
Medium	Exposure to hazardous substances resulting in a dangerous occurrence reportable under RIDDOR. Exposure to hazardous substances resulting in exceedance of a workplace exposure limit.
Mild	Exposure to hazardous substances resulting in limited effects such as headache, dizziness, nausea. Exposures below the workplace exposure limits. Not reportable under RIDDOR.

Classification	Definition of consequence
Minor	Minor exposure to hazardous substance resulting in no appreciable ill health effects.
Controlled Water Receptors	
Severe	Pollution of a Principal Aquifer within a source protection zone or potable supply characterised by a breach of drinking water standards. Pollution of a surface water course characterised by a breach of an Environmental Quality Standard (EQS) at a statutory monitoring location or resulting in a change in General Quality Assessment (GQA) grade of river reach. Discharge of a List I or List II substance to groundwater. Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Medium	Pollution of a Principal Aquifer outside a source protection zone or a Secondary A Aquifer characterised by a breach of drinking water standards. Pollution of an industrial groundwater abstraction or irrigation supply that impairs its function. Substantial pollution but insufficient to result in a change in the GQA grade of river reach Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Mild	Low levels of pollution of a Principal Aquifer outside a source protection zone or an industrial abstraction, or pollution of a Secondary Aquifer. Low levels of pollution insufficient to result in a change in the GQA grade of river reach, pollution of a surface water course without a quality classification.
Minor	No appreciable pollution, or pollution of a low sensitivity receptor such as a non-aquifer or a surface water course without a quality classification
Property Receptors – Buildings, Foundations and Services	
Severe	Catastrophic damage to buildings, such as explosion. Catastrophic failure of foundations and services. Substantial damage to a Scheduled Monument significantly impairing the by reason of which the monument is scheduled. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial damage to buildings and foundations rendering the structures unsafe. Substantial damage to services impairing their function. Significant damage to a Scheduled Monument significantly impairing the reason of which the monument is scheduled. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	Significant damage to buildings and foundations but not resulting in them being unsafe for occupation. Damage to services but not sufficient to impair their function. Damage to a Scheduled Monument but no significant impairment to the reason of which the monument is scheduled.
Minor	Easily repairable damage to buildings, foundations and services.
Property Receptors – Crops and Livestock and Ecological Receptors	
Severe	Substantial loss in the value of crops or domestically-grown produce. Death to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial diminution in yield (over 20% reduction) of crops or domestically-grown produce. Serious disease or other serious physical damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	Harm to crops but not resulting in a substantial loss in value or diminution in yield (less than 20% reduction). Limited harm in terms of disease or other physical

Classification	Definition of consequence
	damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights.
Minor	No appreciable harm, or harm to a low sensitivity receptor.

Appendix E. Site Visit Photographs

Date: 19/03/19	Project: Sizewell C Site Walkover, Northern Park and Ride
Comments	
View of the south of the site, looking south west towards Darsham Station.	

Date: 19/03/19	Project: Sizewell C Site Walkover, Northern Park and Ride
Comments	
View of the south west of the site, looking west towards the East Suffolk Line railway.	

Date: 19/03/19	Project: Sizewell C Site Walkover, Northern Park and Ride
Comments	
View of the west and north west of site towards Little Nursery Woodland.	

Date: 19/03/19	Project: Sizewell C Site Walkover, Northern Park and Ride
Comments	
View of the south east of site, looking north east along the A12.	

Date: 19/03/19	Project: Sizewell C Site Walkover, Northern Park and Ride
Comments	
View of the north west and centre of site, looking south west from Willow Marsh Lane	

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NORTHERN PARK AND RIDE – APPENDIX 11B: CONCEPTUAL SITE MODELS

Contents

Tables

Plates

None provided.

Figures

None provided.

1. Conceptual Site Models

Table 1.1: Construction phase conceptual site model.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
On-site: Made ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Intrusive ground investigation undertaken post planning to inform the detailed design and confirm the ground conditions and contamination status of the site including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely[1]	Mild	Very low risk.
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Users of the new Park and ride.		Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil-derived dust, fibres and gas / vapour which may have migrated off-site.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Pedestrians accessing surrounding roads and footpaths.		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Farmers / workers on agricultural land.		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.

[1] It has been assumed that all construction workers will adhere to site working practices, including use of appropriate PPE.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
contamination including metals and hydrocarbons, Polychlorinated Biphenyls (PCBs), asbestos, etc.		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
	Property/ services.	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Receptor not present.	--	--
		Crops and livestock (off-site).		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Ecological Receptor.	Sillett's Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
Off-site: Darsham service station to the south-east. Darsham railway station, station works and the East Suffolk line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site. Inorganic and organic contaminants including metals,	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Users of the new Park and ride.		Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low Risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Medium	Low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low Risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Medium	Low risk.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, Polycyclic Aromatic Hydrocarbons (PAHs), solvents. pesticides and creosote; ash and fill.		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Property / services.	Existing on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very Low risk.	Receptor not present.	--	--		Receptor not present.	--	--

Table 1.2: Operation phase conceptual site model.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation (Assumed All Mitigation Proposed During Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
On-site: Made ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Unlikely[2]	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Users of the new Park and ride.		Receptor not present.	Mild	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil-derived dust, fibres and gas / vapour which may have migrated off-site.	Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Pedestrians accessing surrounding roads and footpaths.		Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Farmers / workers on agricultural land.		Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.

[2] It has been assumed that all construction workers will adhere to site working practices, including use of appropriate PPE.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation (Assumed All Mitigation Proposed During Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Property / services.	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--
		Crops and livestock (off-site).		Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation (Assumed All Mitigation Proposed During Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
	Ecological Receptor.	Sillett's Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
Off-site: Darsham service station to the south-east. Darsham railway station, station works and the East Suffolk line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site. Inorganic and organic contaminants including metals, petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, PAHs, solvents. pesticides and creosote; ash and fill.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Construction / maintenance workers.		Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Users of the new Park and ride.		Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
	Property / services.	Existing on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation (Assumed All Mitigation Proposed During Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--

Table 1.3: Removal and reinstatement phase conceptual site model.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Removal and Reinstatement with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Removal and Reinstatement with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
On-site: Made ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Intrusive ground investigation undertaken post operation including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely[3]	Mild	Very low risk.
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
		Users of the new Park and ride.		Receptor not present.	Mild	--	Receptor not present.	--	--		Receptor not present.	--	--
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapour which may have migrated off-site.	Unlikely	Mild	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
		Pedestrians accessing surrounding roads and footpaths.		Unlikely	Mild	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
		Farmers / workers on agricultural land.		Unlikely	Mild	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.

[3] It has been assumed that all construction workers will adhere to site working practices, including use of appropriate PPE

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Removal and Reinstatement with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Removal and Reinstatement with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
metals and hydrocarbons, PCBs, asbestos, etc.			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
	Property / services.	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (off-site).		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Ecological	Sillett's Wood	Migration of contaminated	Unlikely	Mild	Very low	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Removal and Reinstatement with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Removal and Reinstatement with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
	Receptor.	Ancient Woodland (off-site).	waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.			risk.							risk.
Off-site: Darsham service station to the south-east. Darsham rail station, station works and the East Suffolk Line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site. Inorganic and organic contaminants including metals, petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, PAHs, solvents. pesticides and creosote; ash and fill.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Users of Willow Marsh Lane.		Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
		Users of the new Park and ride.		Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
	Controlled waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Medium	Low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Medium	Low risk.
		Pond on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Property / services.	Existing on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.

Source	Receptor		Contaminant Exposure / Migration Pathway.	Baseline			Removal and Reinstatement with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Removal and Reinstatement with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very Low risk.	Receptor not present.	--	--		Receptor not present.	--	--

NORTHERN PARK AND RIDE – APPENDIX 11C: IMPACT ASSESSMENT TABLES

Contents

Tables

Plates

None provided.

Figures

None provided.

1. Impact Assessment Tables

Table 1.1: Construction phase impact assessment.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Construction Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effect.
On-site: Made Ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, Polychlorinated Biphenyls (PCBs), asbestos, etc.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[1]	Intrusive ground investigation undertaken post planning to inform the detailed design and confirm the ground conditions and contamination status of the site including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	Negligible[1]
		Construction / maintenance workers.		Receptor not present.	Low risk.	Minor adverse.		Very low risk.	Negligible[2]
		Users of Willow Marsh Lane.		Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Users of the new Park and Ride.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil-derived dust, fibres and gas / vapour which may have migrated off-site.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Pedestrians accessing surrounding roads and footpaths.		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Farmers / workers on agricultural land.		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Very low risk.	Minor beneficial.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible

[1] Removal of this receptor at construction automatically triggers a minor beneficial effect. However, professional judgement has been exercised and this effect has been reduced to negligible.
[2] Introduction of this receptor at construction automatically triggers a minor adverse effect. However, professional judgement has been exercised and this effect has been reduced to negligible.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Construction Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effect.
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
	Property / services	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Crops and livestock (off-site).		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Ecological receptor.	Sillett's Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
Off-site:	Human health:	Farmers / workers on agricultural land.		Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Construction Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effect.
Darsham service station to the south-east. Darsham railway station, station works and the East Suffolk Line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site. Inorganic and organic contaminants including metals, petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, Polycyclic Aromatic Hydrocarbons (PAHs), solvents. pesticides and creosote; ash and fill.	On-site.	Users of Willow Marsh Lane.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Construction / maintenance workers.		Receptor not present.	Low risk.	Minor adverse.		Very low risk.	Negligible[2]
		Users of the new Park and Ride.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Low risk.	Negligible
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Low risk.	Negligible
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Low risk.	Moderate / low risk.	Minor adverse.		Very low risk.	Minor beneficial.
	Property / services	Existing on-site services.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]

Table 1.2: Operational phase impact assessment.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Operation Phase Risk Assessment (with Primary and Tertiary Mitigation Measures, Assuming All Mitigation Proposed During Construction is Undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
On-site: Made Ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]
		Construction / maintenance workers.		Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
		Users of Willow Marsh Lane.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Users of the new Park and Ride.		Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil derived dust, fibres and gas / vapour which may have migrated off-site.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Pedestrians accessing surrounding roads and footpaths.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Farmers / workers on agricultural land.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and/or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible

[3] Removal of this receptor at operation automatically triggers a minor beneficial effect. However, professional judgement has been exercised and this effect has been reduced to negligible.
[4] Introduction of this receptor at operation automatically triggers a minor adverse effect. However, professional judgement has been exercised and this effect has been reduced to negligible.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Operation Phase Risk Assessment (with Primary and Tertiary Mitigation Measures, Assuming All Mitigation Proposed During Construction is Undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
			Discharge of contaminants entrained in groundwater and/or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Property / services	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with existing buried service.	Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]
		Crops and livestock (off-site).		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Ecological receptor.	Sillett's Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
OFF-SITE: Darsham service station to the south-east. Darsham rail station, station works and the East Suffolk line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]
		Construction / maintenance workers.		Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible
		Users of Willow Marsh Lane.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Users of the new Park and Ride.		Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
	Controlled waters.	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Operation Phase Risk Assessment (with Primary and Tertiary Mitigation Measures, Assuming All Mitigation Proposed During Construction is Undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
Inorganic and organic contaminants including metals, petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, PAHs, solvents. pesticides and creosote; ash and fill.			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial	Very low risk.	Minor beneficial.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Property / services	Existing on-site services.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible[4]
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]

Table 1.3: Removal and reinstatement phase impact assessment.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Removal and Reinstatement Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation.	Removal and Reinstatement Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
On-site: Made Ground associated with the construction of the roads including A12 Road and Willow Marsh Lane. Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[1]	Intrusive ground investigation undertaken post operation including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	Negligible[1]
		Construction / maintenance workers.		Receptor not present.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Users of Willow Marsh Lane.		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Users of the new Park and Ride.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area / commuters.	Dermal contact with and ingestion of contaminants in soil-derived dust and water which may have migrated off-site. Inhalation of contaminants in soil derived dust, fibres and gas / vapour which may have migrated off-site	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
		Pedestrians accessing surrounding roads and footpaths.		Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
		Farmers / workers on agricultural land.		Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Very low risk.	Minor beneficial
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Very low risk.	Minor beneficial.
		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Drain and ponds within study area.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Removal and Reinstatement Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation.	Removal and Reinstatement Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
	Property / services	Existing on-site and off-site services and structures including listed buildings.	Direct contact of contaminants in soil and / or groundwater with buried services.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Future on-site services and structures.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Crops and livestock off-site).		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Ecological receptor.	Sillett's Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion/ inhalation/dermal contact by fauna.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
Off-site: Darsham service station to the south-east. Darsham rail station, station works and the East Suffolk line. White House Farm adjacent to the north-eastern boundary. Granaries located adjacent to the south-eastern boundary of the site.	Human health: On-site.	Farmers / workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas / vapours.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Construction / maintenance workers.		Receptor not present.	Low risk.	Minor adverse.		Very low risk.	Negligible[1]
		Users of Willow Marsh Lane.		Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Users of the new Park and Ride.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
	Controlled Waters.	Principal Bedrock aquifer and Secondary Undifferentiated Superficial aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Low risk.	Negligible
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate / low risk.	Minor adverse.		Low risk.	Negligible

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline (Current) Risk Assessment.	Removal and Reinstatement Phase Risk Assessment (with Primary and Tertiary Mitigation Measures).	Classification of Effect.	Secondary Mitigation.	Removal and Reinstatement Phase Risk Assessment (with Primary, Tertiary and Secondary Mitigation Measures).	Residual Effects.
Inorganic and organic contaminants including metals, petroleum, petrol additives, diesel, oils, lubricants, hydrocarbons, PCBs, PAHs, solvents. pesticides and creosote; ash and fill.		Pond and unnamed watercourse on-site.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
			Discharge of contaminants entrained in groundwater and / or Surface Water run-off followed by overland flow and discharge.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Property / services	Existing on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
		Future on-site services and structures.	Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]