

The logo for IGas Energy features two overlapping green triangles of different sizes and orientations. The larger triangle is positioned below and to the right of the smaller one, creating a sense of depth and movement.

**IGas**  
Energy

**IGas Energy Production Limited**

**Glentworth West Drilling and Testing Operation**

**Site Condition Report**



<b>Issue Number:</b>	<b>Details:</b>	<b>Prepared By:</b>	<b>Reviewed By:</b>	<b>Authorised By:</b>
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## **1. PURPOSE AND CONTEXT**

This Site Condition Report forms part of an application to the Environment Agency to authorise the undertaking of specific 'permitted activities' at the proposed Glentworth West Wellsite. With regards to onshore oil and gas operations an activity that produces extractive waste is classified as a 'mining waste operation'.

This Site Condition Report sets out the current condition of the Glentworth West Wellsite prior to the undertaking of the proposed drilling operations by IGas Energy Production Limited (herein referred to as the 'Operator'). It has been provided as a record of the site condition prior to the construction of the Glentworth West Wellsite and will continue to be updated as the operations progress, recording any changes to the environment as a result of the 'permitted activities'. Throughout the life of the wellsite this Site Condition Report shall be considered a live 'operating technique' and must be complied with as it forms part of the environmental permit.

The Glentworth West Wellsite is considered a 'regulated facility' under The Environmental Permitting (England and Wales) Regulations 2016, as amended (EPR2016) [REF.1].



## **2. SCOPE**

This Site Condition Report is applicable to the Glentworth West Wellsite and all operations conducted therein. It is applicable to the 'Operator', its contractors and subcontractors and may be used in support of an application to the Environment Agency for an environmental permit under EPR2016.



### 3. ABBREVIATIONS AND DEFINITIONS

<b>Active Area:</b>	The area of the regulated facility whereby permitted activities are undertaken
<b>BGS:</b>	British Geological Survey
<b>DWSZ:</b>	Drinking Water Safeguard Zone
<b>EPR2016:</b>	The Environmental Permitting (England and Wales) Regulations 2016
<b>GLN12:</b>	Glentworth 12 Well
<b>GLN12z:</b>	Glentworth 12z Sidetrack
<b>Installation Activity:</b>	Has the meaning given within Regulation 2 of EPR2016
<b>HDPE:</b>	High Density Polyethylene
<b>km:</b>	Kilometre
<b>m:</b>	Metre
<b>MAGIC:</b>	Multi Agency Geographic Information for the Countryside
<b>Mining Waste Operation:</b>	Has the meaning given within Regulation 2 of EPR2016
<b>Non-active Area:</b>	The area of the regulated facility whereby permitted activities are not undertaken
<b>Operating Technique:</b>	Documents approved by the regulator to ensure compliance with the issued permit
<b>Operator:</b>	Has the meaning given within Regulation 7 of EPR2016
<b>Permitted Activities:</b>	Any activity or operation defined within Schedule 1 to 29 of EPR2016
<b>Regulated Facility:</b>	Has the meaning given within Regulation 8 of EPR2016
<b>SPZ:</b>	Source Protection Zone
<b>TVDSS:</b>	True Vertical Depth below Sea Level (sub sea)

**Table 1: Abbreviations and Definitions**



## 4. ENVIRONMENTAL PERMIT AND GENERAL DESCRIPTION

The proposed Glentworth West Wellsite has yet to be constructed and does not currently hold an environmental permit. No permitted activities are authorised under EPR2016.

### 4.1 Development Description

The 'Operator' is proposing to construct a new site to be known as the Glentworth West Wellsite. The purpose of the new wellsite is to accommodate future drilling, testing and production operations to further develop the Glentworth oil field. In brief, the site construction will be designed to house a drilling rig, well test spread, storage tanks, production equipment and any other ancillary equipment as necessary.

Site construction works will include the upgrading of the current access track and excavation of topsoil and subsoil and relocating it to the western boundary and stored in respective bunding to act as mitigation against visual impact. An impermeable liner will be installed to mitigate against any spillages or onsite pollution events with a concrete well cellar, well pad and associated drainage also installed. The Glentworth West Wellsite will have security fencing installed around the perimeter. Whilst the construction of the wellsite is not covered under EPR2016, the embedded mitigation such as the impermeable liner forms part of the 'Operators' obligation to protect the environment.

Following site construction, the 'Operator' is proposing to drill a new appraisal borehole with the purpose of investigating the Mexborough Rock reservoir.

The well will then be the subject of an extended period of testing comprising of two phases. In total the testing phase will take place over a period of 12 months within which time produced fluid (a mixture of oil and water) will be flowed to surface and stored in dedicated storage tanks pending collection by road tanker to the Welton Gathering Centre for processing. Small volumes of associated gas will be produced alongside the produced fluids. In the first instance the flowrate will be unstable and suitable mitigation in the form of a shrouded flare will need to be deployed to facilitate efficient combustion across a wide scope of flowrate and pressures. Once the production rates have settled down it is proposed to substitute the shrouded flare for a higher efficiency enclosed flare, designed to operate within a specific flowrate range. The two-phase approach provides the 'Operator' with confidence that the waste gas can be safely managed and disposed of for the 12 month period.

The well may also be the subject of an acid wash to increase near wellbore permeability, cleaning out any blocked channels within the near wellbore area that may have been caused by the initial drilling operation. This activity may be undertaken a number of times throughout the lifetime of the development following well construction.

Following the 12 month well test the well will be the subject of a suspension period in which the 'Operator' will make a decision over the future of the GLN12 well with one of two options being considered.

- The well shall be the subject of an abandonment and decommissioning programme and the site restored.
- The wellsite shall be developed further with the drilling of additional wells (subject to future regulatory consents).

For clarity, well abandonment and decommissioning is being considered as part of this permit application, though timescale for which this activity could be undertaken cannot be confirmed as it is contingent on the outcome of the well testing phase.

### 4.2 Proposed Permitted Activities

To facilitate the proposed development a number of activities will need to be permitted under EPR2016. As no permit currently exists for the Glentworth West Wellsite the following activities are required as outlined in the following subsections.

#### 4.2.1 Mining Waste Operation

Schedule 20 of EPR2016 defines a mining waste operation as being the management of extractive waste, whether or not it involves a waste facility. The drilling of the GLN12 borehole and GLN12z sidetrack is considered a mining waste operation as it results in the production, and therefore management of extractive waste in the form of drilling cuttings, muds and other extractive waste streams. Furthermore, the testing phase will also result in extractive waste in the form of associated natural gas, as will the proposed acid wash which will result in spent acid being produced.





For clarity the volume of gas to be incinerated is anticipated to be significantly below 10 tonnes per day and as such the flaring of natural gas is considered to fall within Schedule 20 of EPR2016 as opposed to a Schedule 1, Section 5.1 Installation.

#### **4.2.2 Installation**

Schedule 1, Part 2 of EPR2016 details a number of activities that are classified as an Industrial Emissions Activity including 'Energy Activities' (Chapter 1). Energy Activities include the storage of crude oil and the specific activity is cited under EPR2016, Schedule 1, Part 2, Chapter 1, Section 1.2, Part A(1) (e)(i).

*'The loading, unloading, handling or storage of, or the physical, chemical or thermal treatment of crude oil.'*

The proposed operation has the potential to involve the handling and storage of crude oil within the site, and as such a permit will need to be in place to permit the loading, unloading, handling or storage of, or the physical, chemical or thermal treatment of crude oil. This activity is considered an 'installation activity'.

#### **4.2.3 Radioactive Substances Activity**

Schedule 23 of EPR2016 provides for the control of Naturally Occurring Radioactive Material (NORM). Schedule 23 defines the production of oil and gas as a NORM industrial activity and therefore any accumulation of radioactive waste, which exceeds concentrations set out in Table 1 of Schedule 23 of EPR2016.

Due to the potential production of oil and gas as part of the well testing phase a standard rules permit is being applied for.

## 5. REGULATED FACILITY

The boundary of the ‘regulated facility’ (Glentworth West Wellsite) has been provided in Appendix 1. The Glentworth West Wellsite has an area of approximately two and a half hectares and is centred on grid reference SK 92000 87900 and located at the following address:

Glentworth West Wellsite  
 Off Northlands Road  
 Glentworth  
 Gainsborough  
 DN21 5DN



Figure 1: Regulated Facility Boundary (Source: Google Earth 18/08/2022)

### 5.1 Environmental Setting

The built-up area of Glentworth lies north of Kexby Road and the village is surrounded by open agricultural land. Glentworth falls within the district of West Lindsey and the county of Lincolnshire. The proposed site is located to the west of the village of Glentworth off Northlands Road with scattered residential properties in the locality.

A desktop study was undertaken to identify any designated sites which may be affected by the proposals. The results of the desktop survey using the Multi-Agency Geographic Information for the Countryside (MAGIC) interactive mapping tool have been provided within Table 2.

Receptors	Search Radius (km)	Name	Distance (km)	Direction from Site	Grid Reference (Edge)
RAMSAR	10	No Receptor Identified	-	-	-
Special Areas of Conservation	10	No Receptor Identified	-	-	-
Special Protection Areas	10	No Receptor Identified	-	-	-
Marine Protection Areas	10	No Receptor Identified	-	-	-
Sites of Special Scientific Interest	2	No Receptor Identified	-	-	-
Scheduled Ancient Monuments	2	Harpwell Hall	1.93	Northeast	SK 93052 89693
National Nature Reserves	2	No Receptor Identified	-	-	-
Local Nature Reserves	2	No Receptor Identified	-	-	-
Local Wildlife Sites	2	No Receptor Identified	-	-	-

Table 2: MAGIC Desktop Study

## 5.2 Geological Setting

A review of the BGS GeoIndex Onshore Mapping indicates that the superficial deposits is Till, Mid Pleistocene with the bedrock being Charmouth Mudstone Formation as depicted in Appendix 2.

The geology underlying the proposed wellsite is relatively well known owed to the fact that a number of historic wells are present in the area. The anticipated geology for the Glentworth West Well is provided in Table 3 based on the results of previous drilling campaigns.

Age	Formation Tops	TVDSS (m)
<b>Quaternary</b>	Drift	
<b>Jurassic</b>	Lower Lias	28
	Hydraulic Lst	-97
<b>Triassic</b>	Lilstock Fm	-108
	Westbury Fm	-115
	Blue Anchor Fm	-121
	Mercia Mudstone	-136
	Glenparva Fm	-142
	Sherwood Sandstone Fm	-386
<b>Permian</b>	Upper Marl	-669
	Anhydrite Marker	-702
	Base Anhydrite Marker	-707
	Upper Magnesian Limestone	-717
	Middle Marl	-746
	Lower Magnesian Limestone	-785
	Lower Marl	-875
	Base Permian Unconformity	-894
<b>Westphalian 'C'</b>	Ravenfield Rock	-924
	Wickersley Rock	-935
	Wickersley Rock Base	-952
	Ackworth Rock	-978
	Ackworth Rock Base	-1009
	Top MB	-1012
	Shafton Coal	-1032
	Top Mexborough Sandstone (Seismic Pick)	-1042
	Base Mexborough Sandstone	-1061
<b>Westphalian 'B'</b>	Sharlston Top Coal	-1088

Table 3: Anticipated Geology

## 5.3 Hydrogeological Setting

A review of the BGS GeoIndex Onshore Mapping indicates that the area is largely a mudstone sequence with limestone and Marlstone Rock forming local aquifers yielding small supplies. Its character is defined as “rocks with essentially no groundwater”

A review of the MAGIC database also confirms that there are no Source Protection Zones (SPZ) or Drinking Water Safeguard Zones (DWSZ) within 2.5 km of the Glentworth West Wellsite. Though SPZs and DWSZs have been identified further afield to the east as depicted in Figure 2.

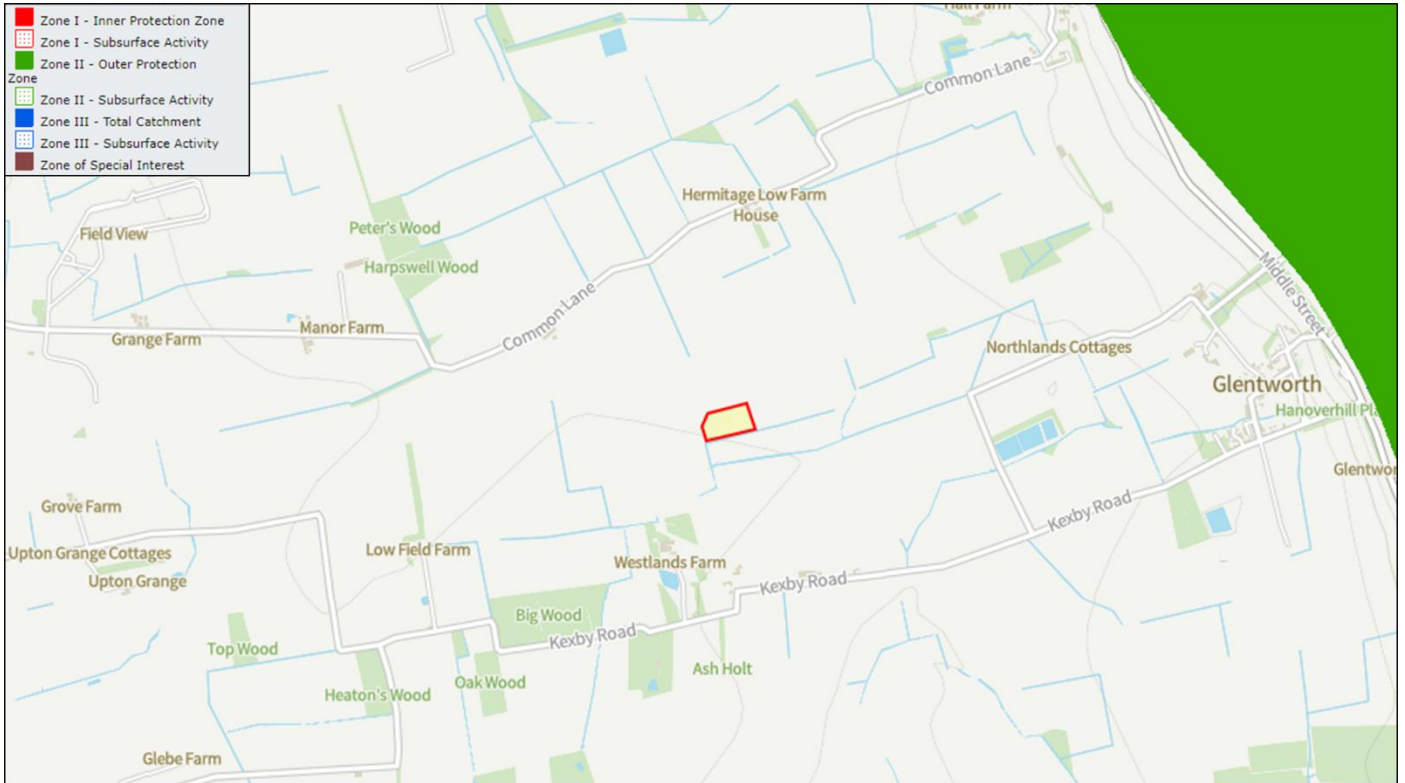


Figure 2: Hydrogeological Features

## 5.4 Hydrological Setting

There are no surface water bodies within the boundary of the proposed ‘regulated facility’ nor are there major streams or rivers located outside the immediate area. There are several small field drains, most notably to the immediate south of the wellsite as well as some additional field drain located between 300 m and 500 m of the wellsite. The field drains, given sufficient flow, are likely to be a contributory of the River Till. Water bodies do exist to the South (Westlands Farm) and to the East (three unnamed water bodies east of Northlands Road as depicted in Figure 3).

The ‘regulated facility’ also located within Flood Zone 1, incurring a low probability of flooding as depicted in Figure 4.

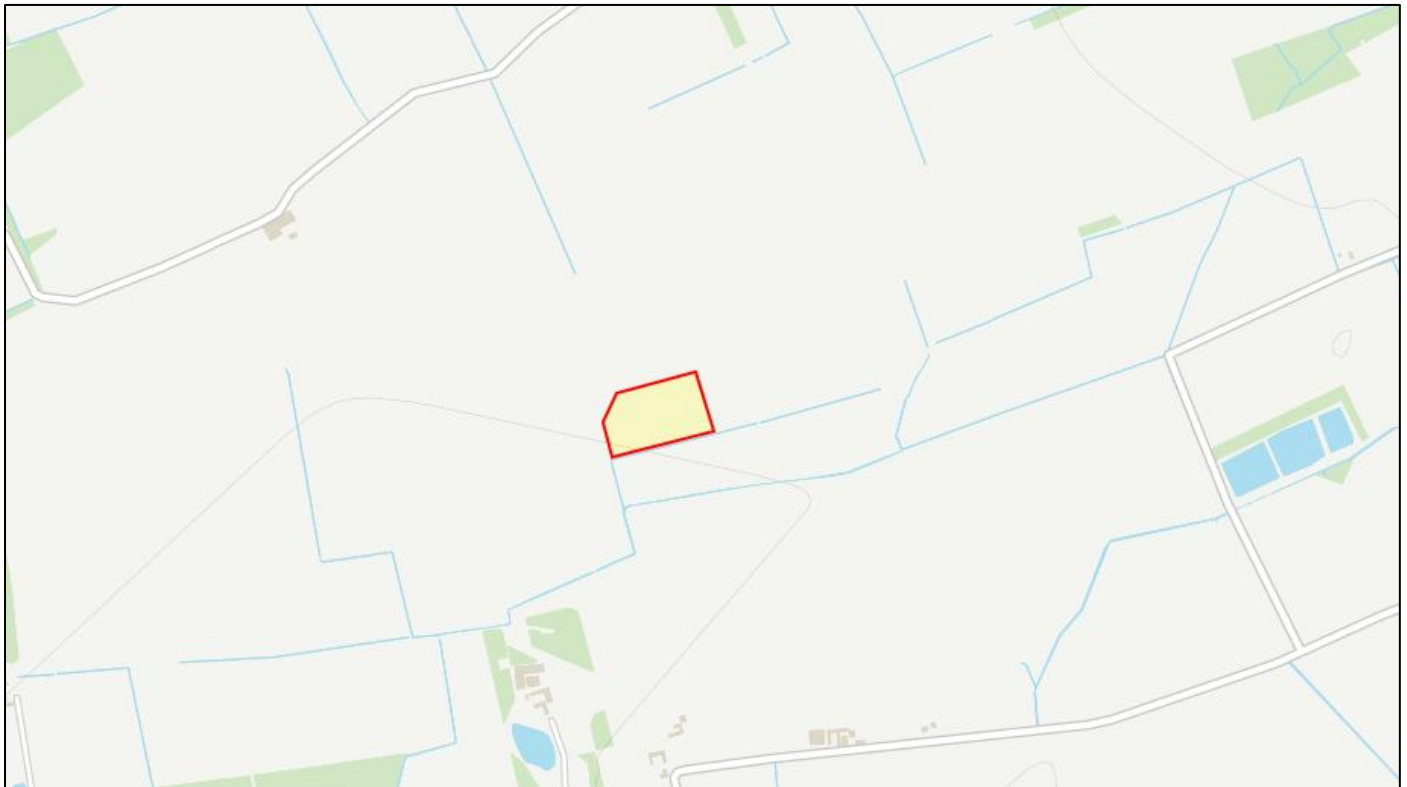


Figure 3: Hydrological Features

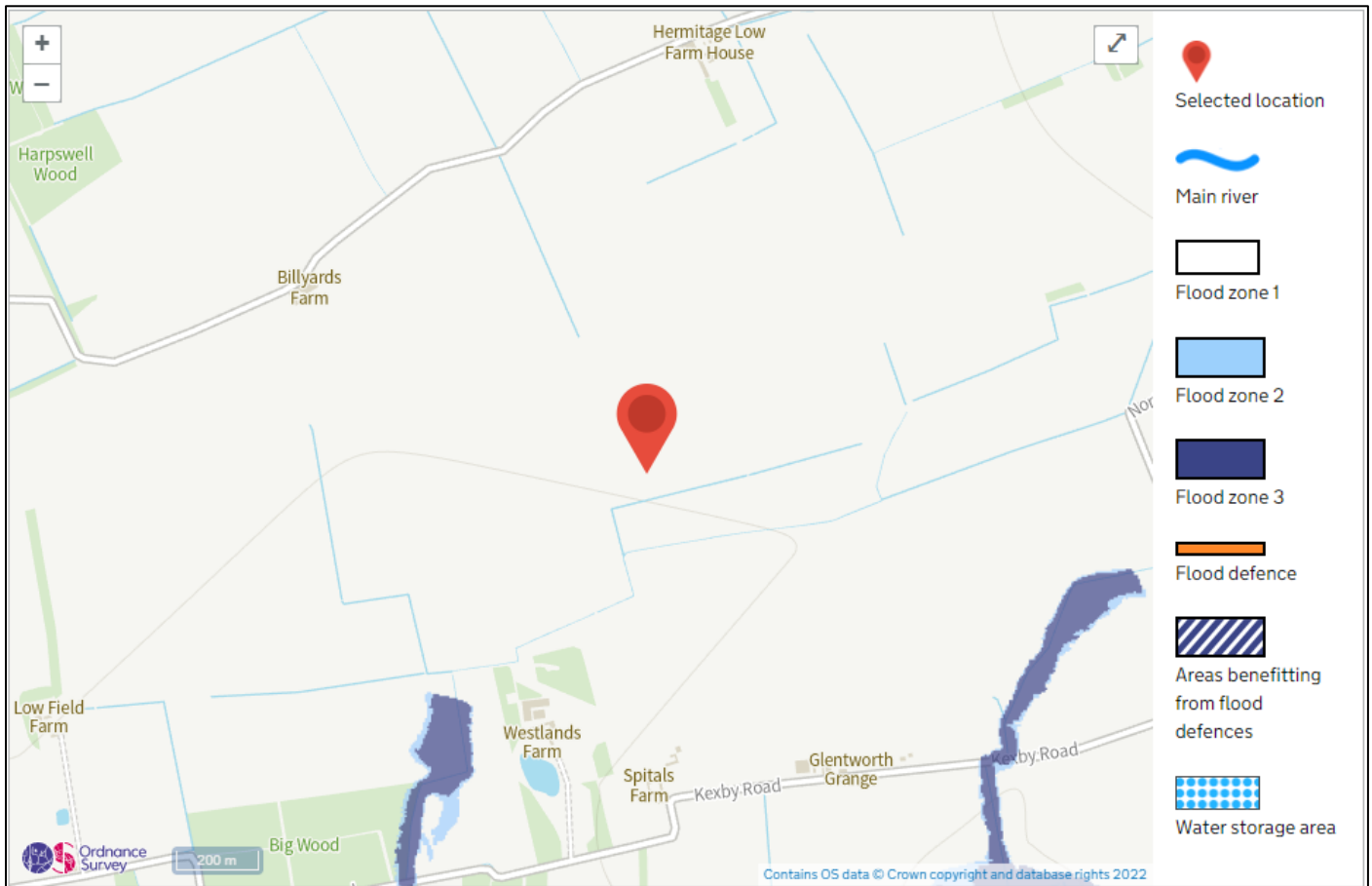


Figure 4: Flood Risk Setting



## **6. POLLUTION HISTORY**

### **6.1 Pollution Incidents Affecting the Land or Controlled Waters**

There are no recorded pollution events to land or controlled waters either on or adjacent to the proposed wellsite. The site location is currently used for arable farming. A Site Sensitivity Report has been provided Appendix 3 and confirms that no recorded pollution events have occurred.

### **6.2 Historical Land Uses and Associated Contaminants**

Historical maps show the site area as arable farmland as far back as 1880s. It is unlikely that the land has been used for anything other than farming. Historical mapping has been provided in Appendix 4.

### **6.3 Visual or Olfactory Evidence of Existing and Historic Contamination**

There is no visual or olfactory evidence to suggest existing or historic contamination at the proposed site location.

### **6.4 Evidence of Damage to Pollution Prevention Measures**

The site is currently undeveloped and as such no pollution prevention measures have been installed.

## **7. SITE CONDITION - GLENTWORTH WEST WELLSITE**

### **7.1 Current Site Condition and Historical Works**

The site is currently used as arable farmland and historical mapping dating back to the 1880s confirms that the land was untouched and likely used for the same purpose. No historical works have been undertaken. Natural hedgerows are present to the south and west of the proposed wellsite with a field drain to the immediate south also. The only nearby infrastructure are electricity lines and transmission towers immediately to the northwest of the wellsite.

### **7.2 Proposed Wellsite Construction**

To facilitate the drilling of the GLN12 appraisal borehole and the well test spread a new site known as the Glentworth West Wellsite is being constructed. Whilst the surface construction activities are not considered 'permitted activities' under EPR2016, it is important to outline how the site has been designed to ensure environmental containment should an onsite pollution event occur.

The wellsite will be constructed by initially removing topsoil and subsoil and relocating it to the western boundary in separate soil bunds. The purpose of creating soil bunds is twofold, it is stored onsite to enable the wellsite remediation phase to utilise the previously excavated soils and whilst stored provides mitigation against visual impact to any nearby receptors. This method prevents the accumulation of waste. If required, the subsoil may be the subject of a 'cut to fill' method which involves the excavation of top soil from the higher areas of the site and relocating it to the lower areas of the site to create a level plateau.

Once the wellsite is level a ditch will be excavated around the perimeter of the 'active area' of the wellsite. The perimeter ditch will form part of the wellsites containment measures ensuring that any rainwater and surface spillages are contained to the wellsite. Following the excavation of the perimeter ditch the 'active area' will be overlaid with a High Density Polyethylene (HDPE) membrane to provide integrity and ensure any surface water and spillages flow to the perimeter ditch for subsequent collection by road tanker. The HDPE will be protected by two layers of non-woven geo-textile matting which will be placed above and below the HDPE membrane to provide protection from the underlying ground and from the site surface, reinforcing the site integrity. The HDPE membrane will be integrity tested during its installation.

Stone aggregate will be used for the surface of both the 'active' and 'non active' area of the wellsite. For clarity the 'non active' area of the wellsite whilst within the 'regulated facility' boundary is to house a car parking area, fire water tanks and potentially offices.

A drilling cellar will be constructed in the centre of the 'active area' of wellsite for housing the wellhead. Typically, well cellars are constructed around the large diameter casings using precast concrete rings encased in a concrete jacket surround or built concrete. The impermeable membrane is incorporated into the cellar construction to maintain environmental integrity of the active area of the wellsite. The exact design of the well cellar has yet to be confirmed. A concrete drilling pad will be constructed at surface, immediately surrounding the drilling cellars. The concrete pad will be sized and constructed to take the ground loading of the drilling rig.





## REFERENCES

1. The Environmental Permitting (England and Wales) Regulations 2016  
Available at: <https://www.legislation.gov.uk/uksi/2016/1154/contents/made>



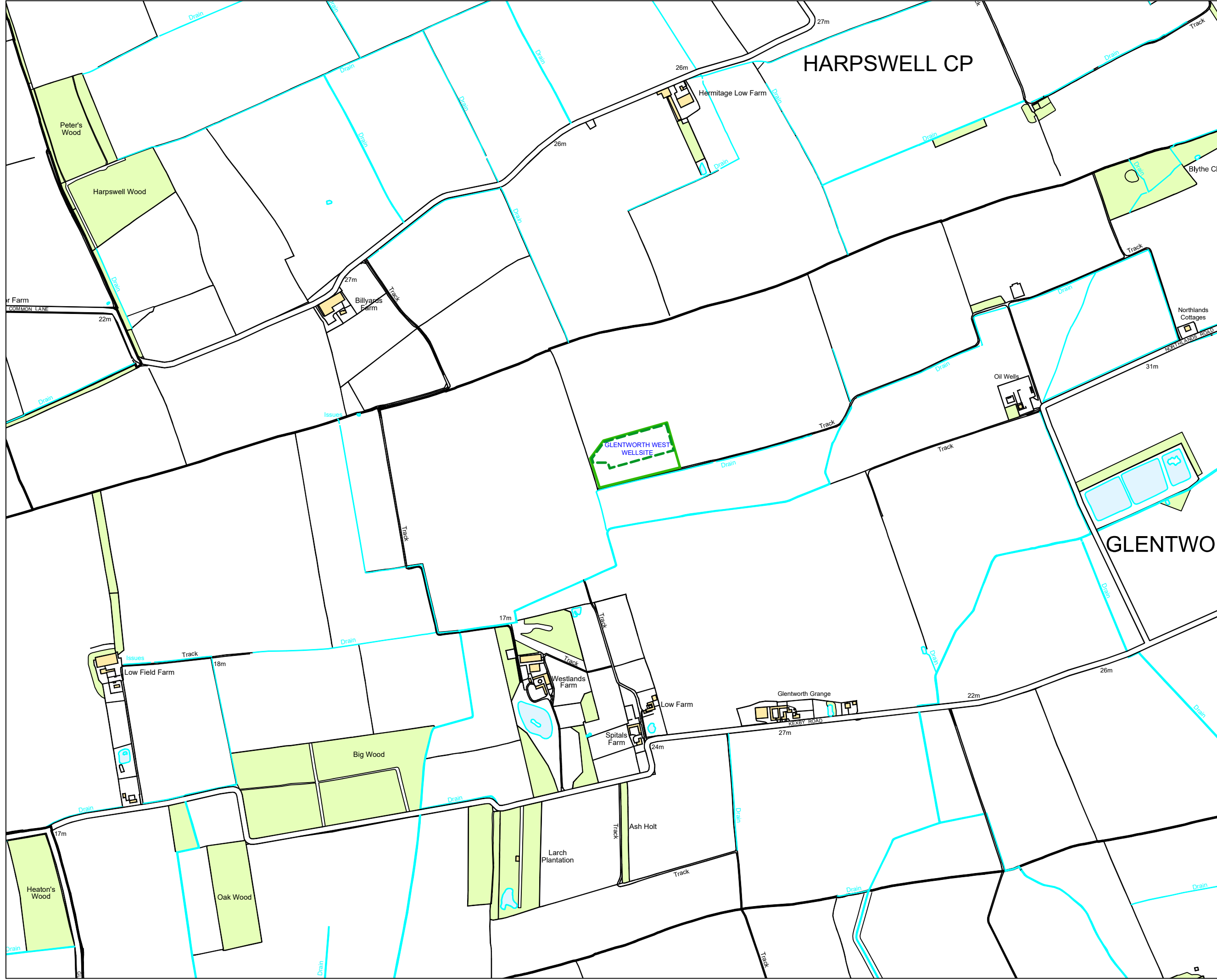
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## **APPENDIX 1 - REGULATED FACILITY BOUNDARY PLAN**



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KEY:  
 PERMIT BOUNDARY (MINING WASTE & NORM)   
 PERMIT BOUNDARY (OIL STORAGE)   
 WATER FEATURE (PONDS, DRAINS)

NOTES:

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PROJECT: DRILLING & TESTING OPERATIONS

TITLE: LOCATION PLAN

CLIENT: IGAS ENERGY PRODUCTION LIMITED

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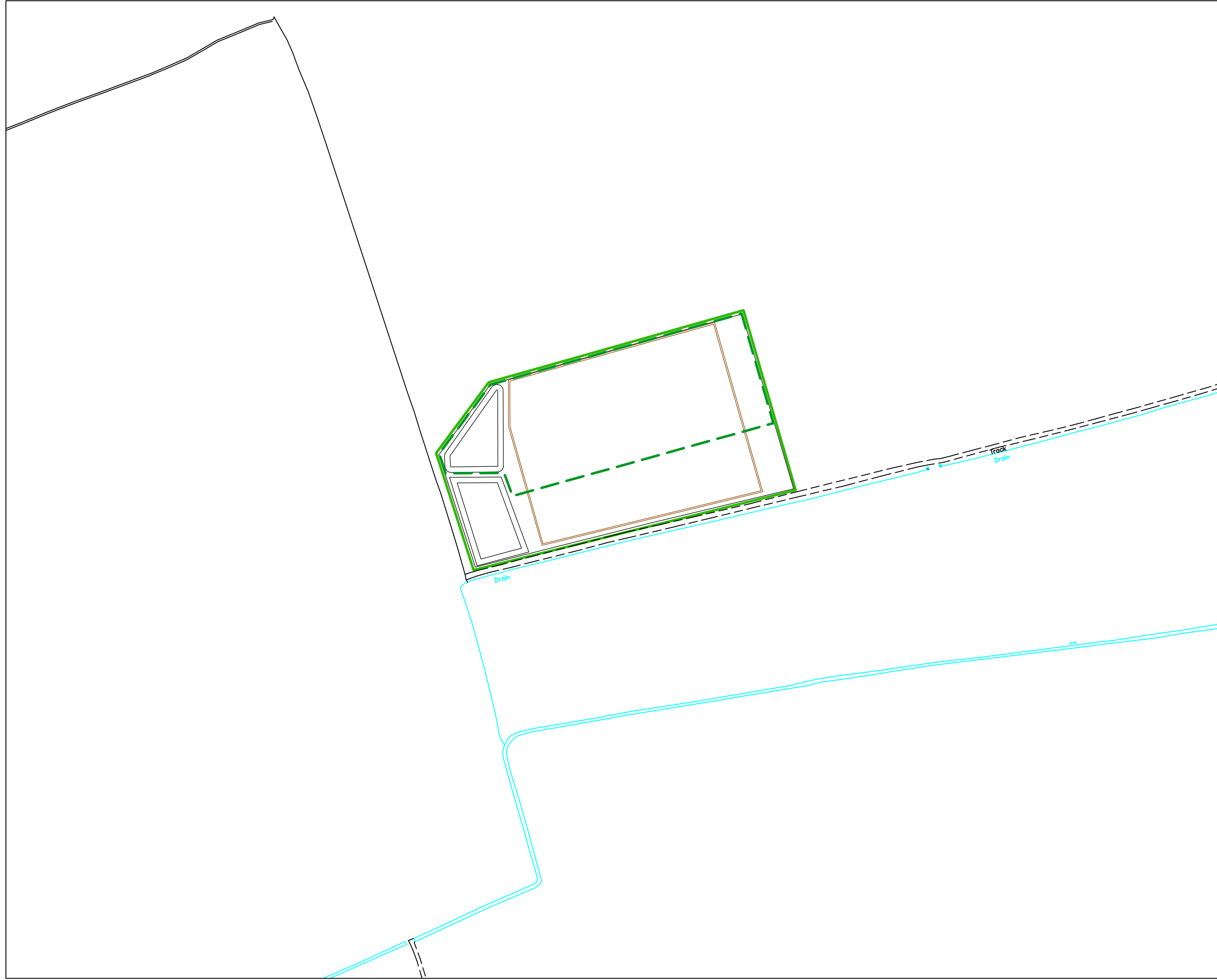
PERMIT BOUNDARY (MINING WASTE & NORM)



PERMIT BOUNDARY (OIL STORAGE)



WATER FEATURE (PONDS, DRAINS)



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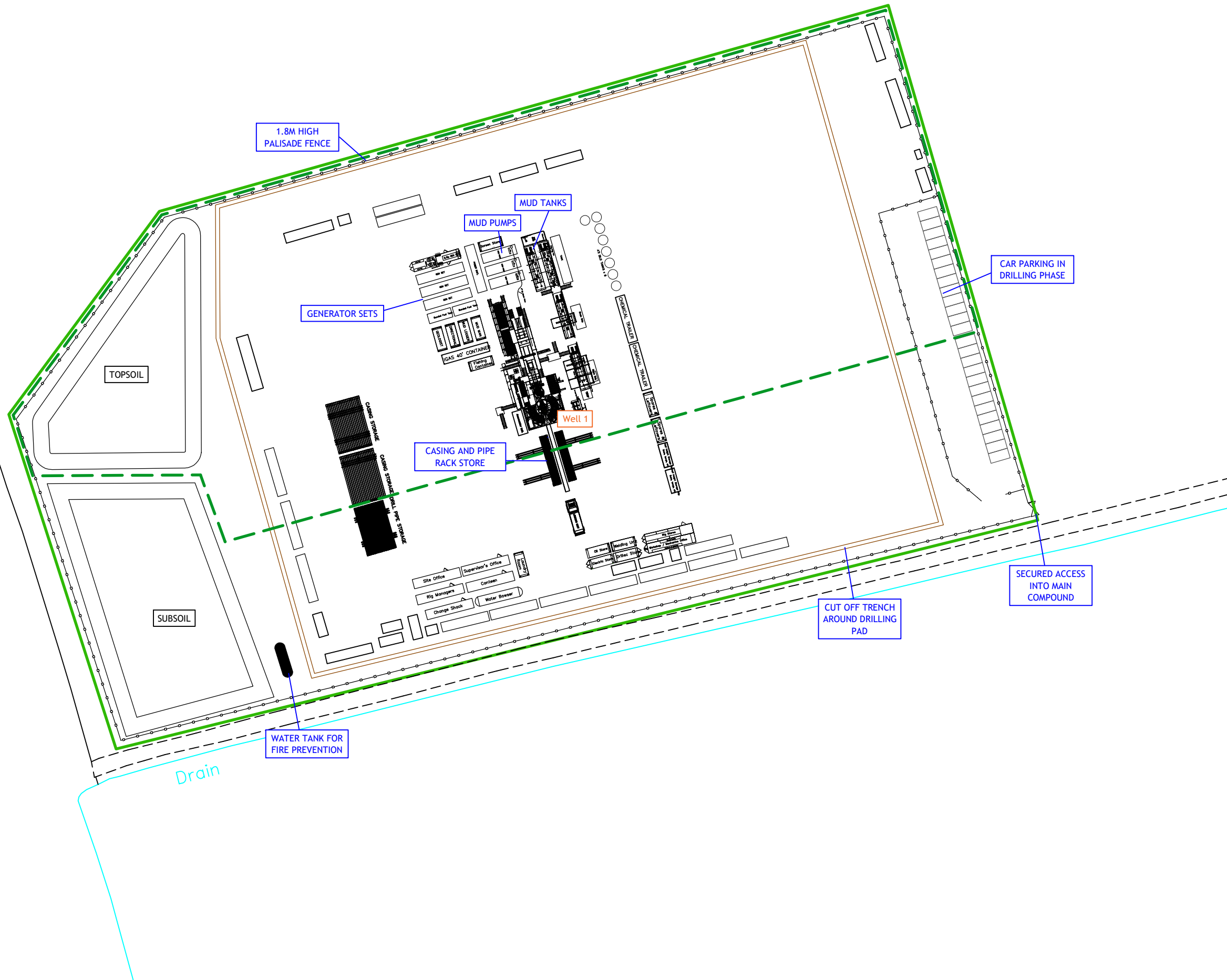
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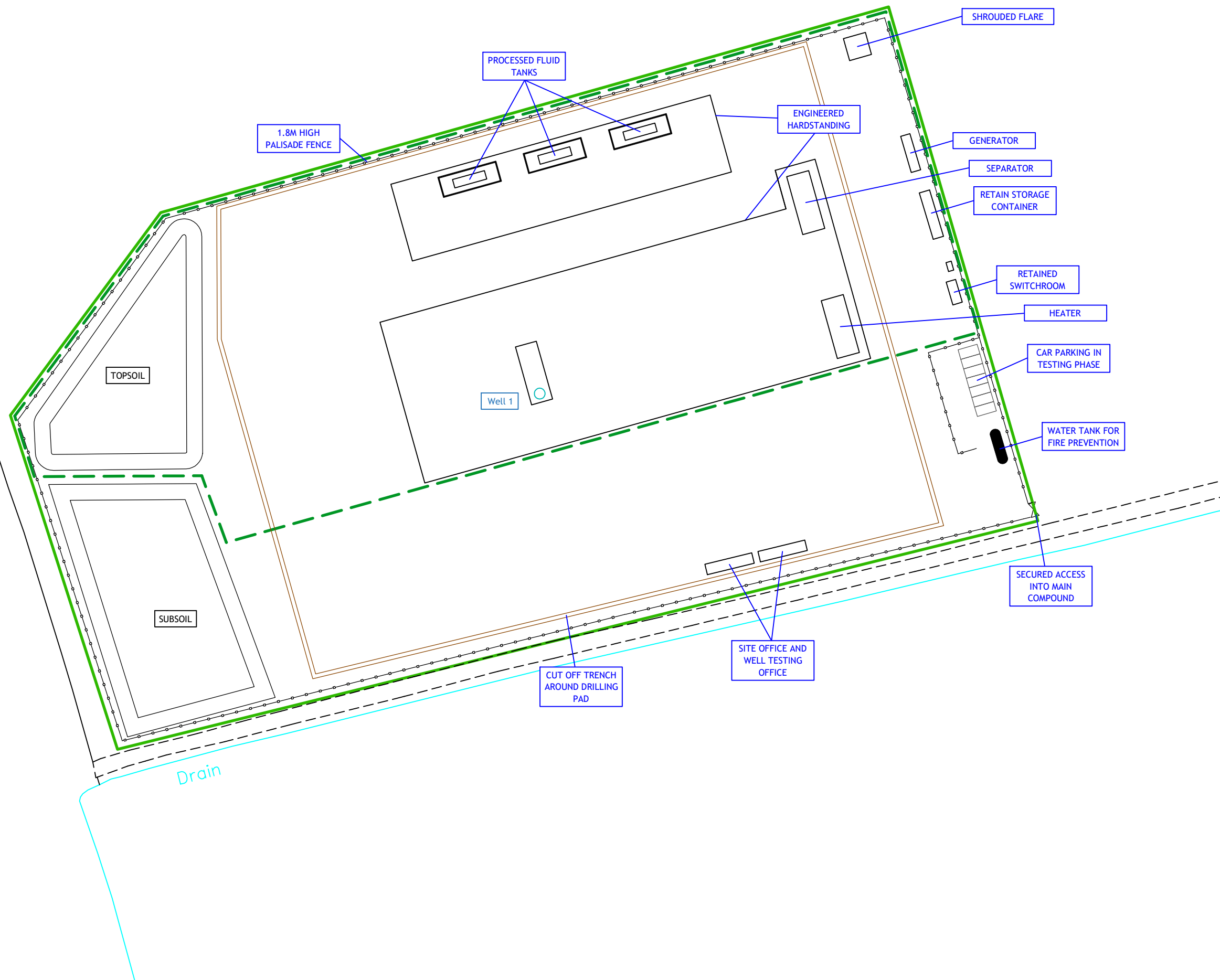
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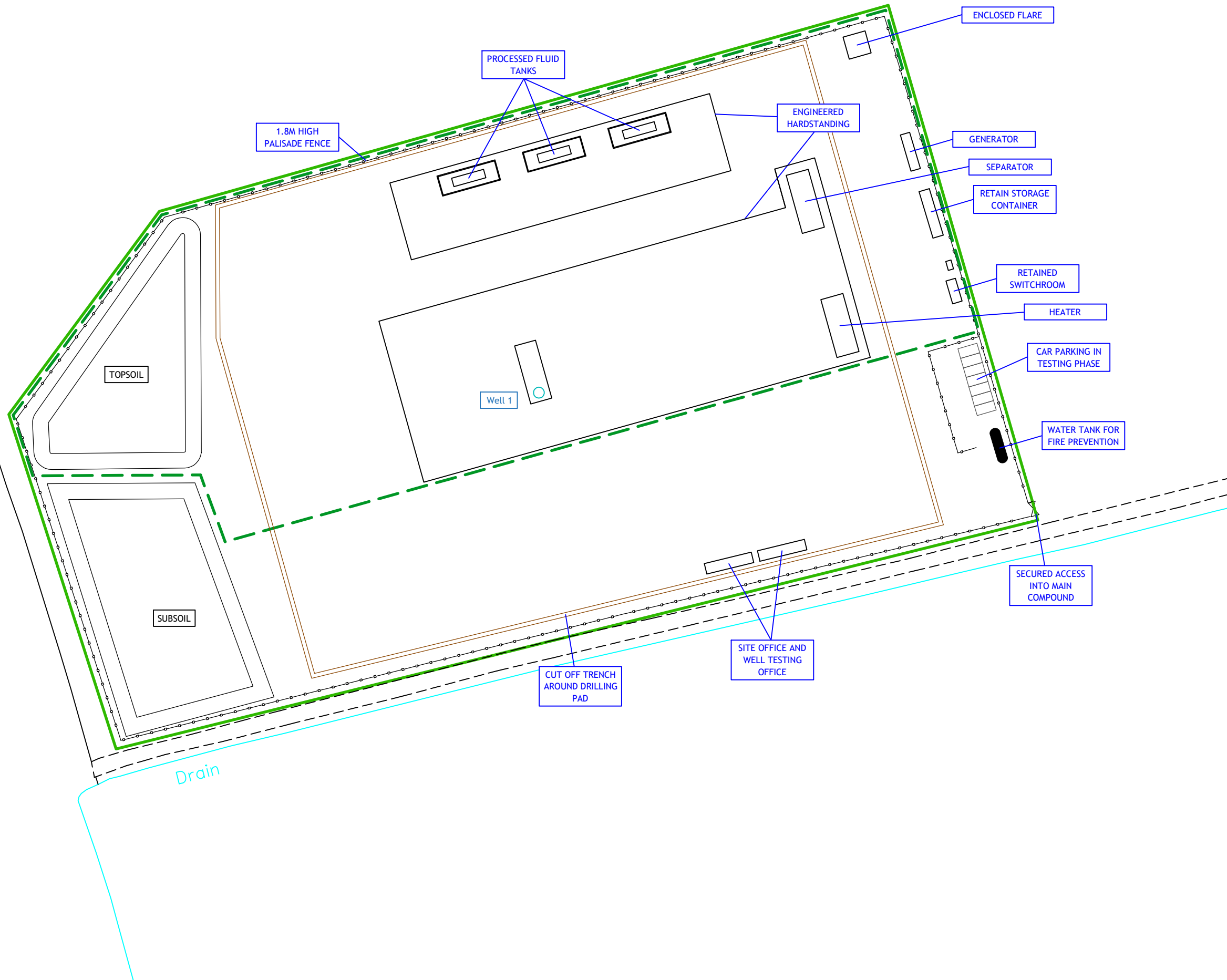
TITLE: SITE LAYOUT PLAN - INITIAL WELL TESTING PHASE

CLIENT: IGAS ENERGY PRODUCTION LIMITED





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PROJECT: DRILLING & TESTING OPERATIONS

TITLE: SITE LAYOUT PLAN - EXTENDED WELL TESTING PHASE

CLIENT: IGAS ENERGY PRODUCTION LIMITED






## **APPENDIX 2 - GEOLOGY REPORT**









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## Geology 1:50,000 Maps Legends

### Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILMP	Till, Mid Pleistocene	Diamicton	Not Supplied - Cromerian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian

### Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LL	Lincolnshire Limestone Formation	Limestone	Not Supplied - Bajocian
	GRF	Grantham Formation	Sandstone, Siltstone and Mudstone	Not Supplied - Aalenian
	WHM	Whitby Mudstone Formation	Mudstone	Not Supplied - Toarcian
	MRB	Marlstone Rock Formation	Ferruginous Limestone and Ferruginous Sandstone	Not Supplied - Pliensbachian
	CHAM	Charmouth Mudstone Formation	Mudstone	Not Supplied - Sinemurian
	SMD	Scunthorpe Mudstone Formation	Mudstone and Limestone, Interbedded	Not Supplied - Rhaetian

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### Geology 1:50,000 Maps

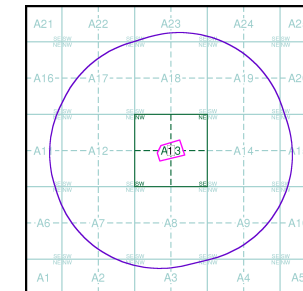
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

### Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	102
Map Name:	Market Rasen
Map Date:	1999
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

### Geology 1:50,000 Maps - Slice A



### Order Details:

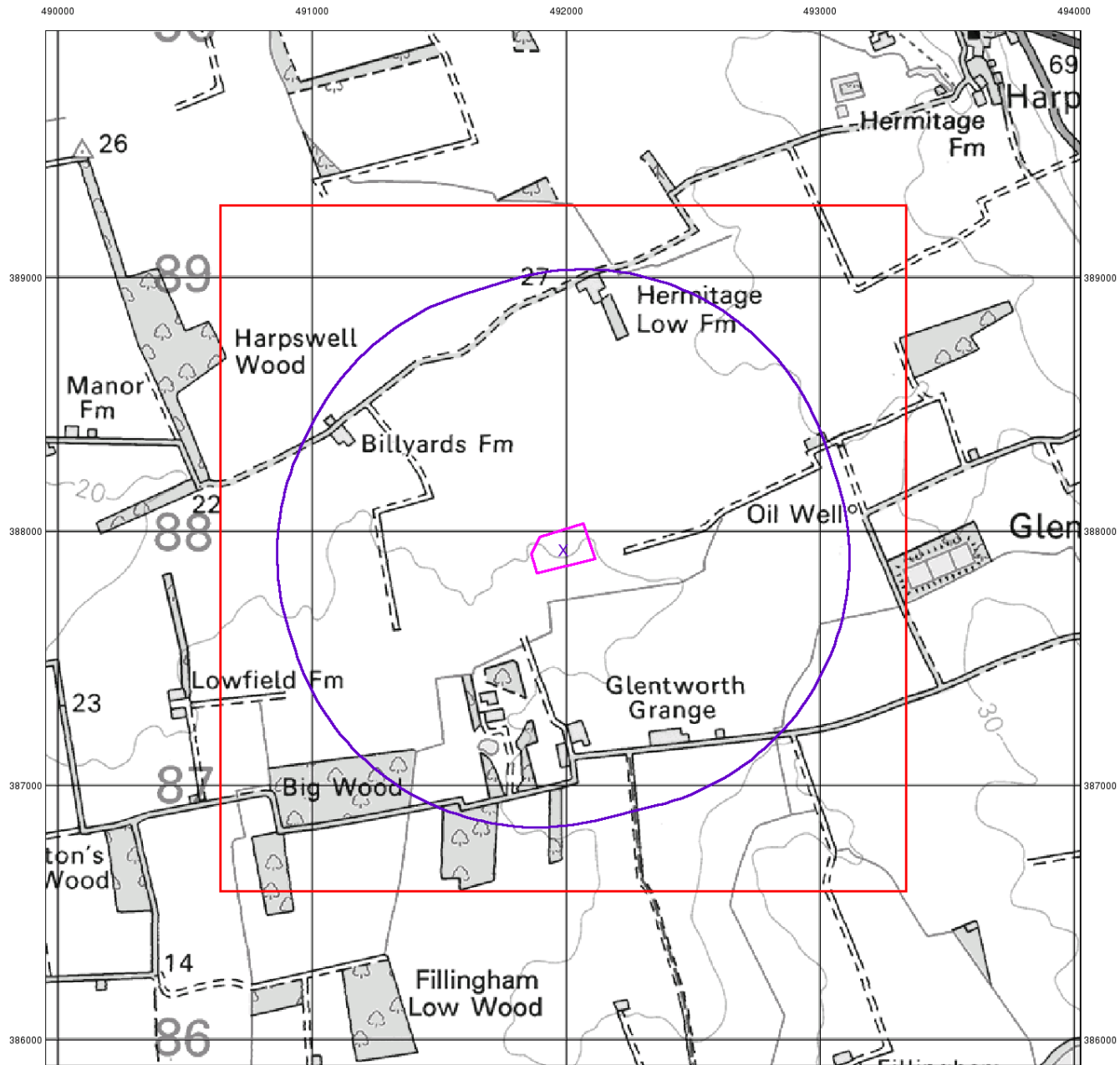
Order Number:	300650352_1_1
Customer Reference:	File 522
National Grid Reference:	491990, 387930
Slice:	A
Site Area (Ha):	3.16
Search Buffer (m):	1000

### Site Details:

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

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## Artificial Ground and Landslip

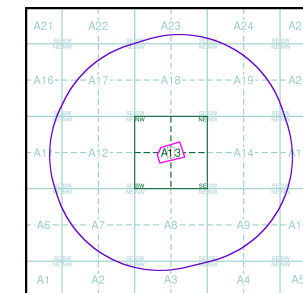
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially unstable material, unpredictable engineering conditions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

Artificial ground includes:

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

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

## Artificial Ground and Landslip Map - Slice A



### Order Details:

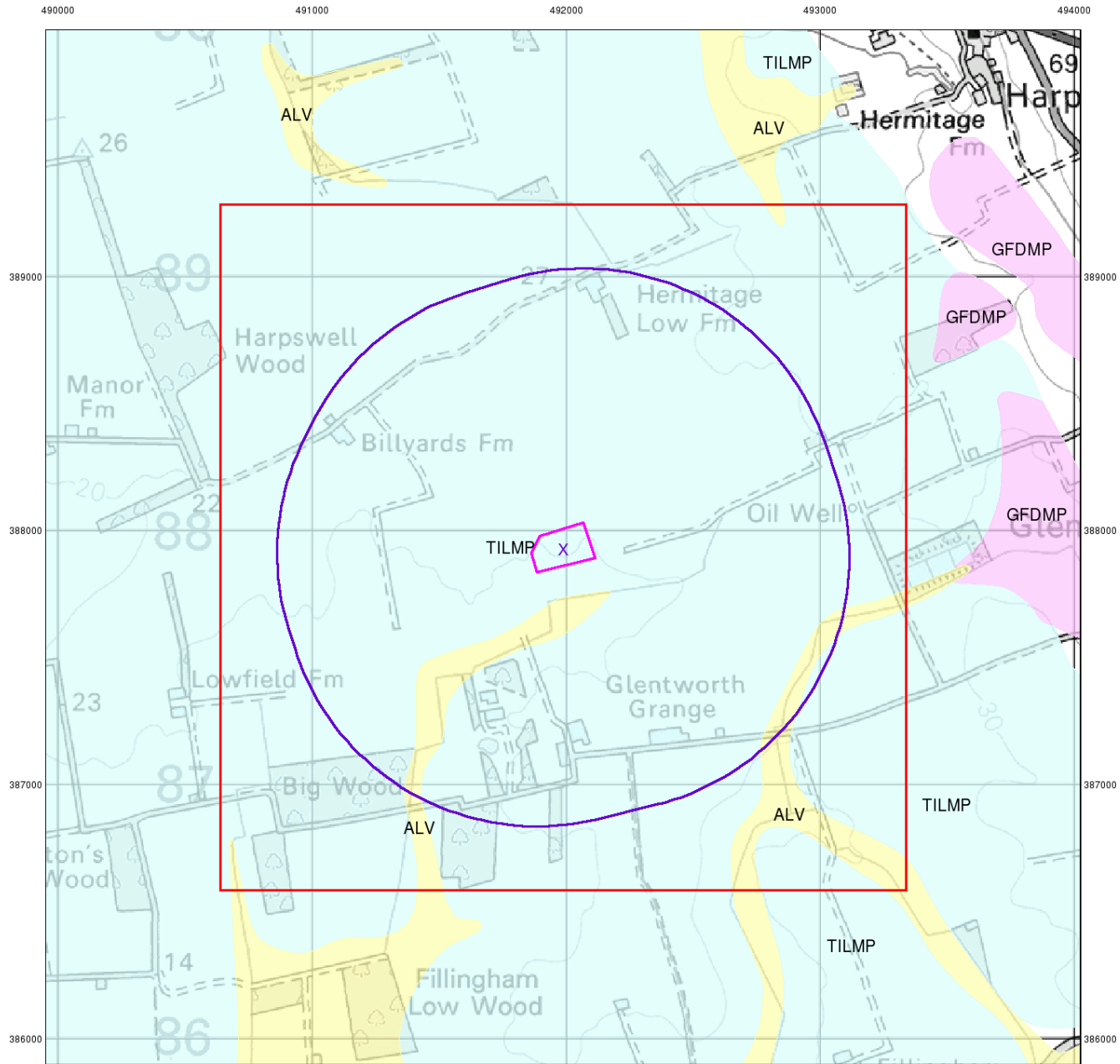
Order Number: 300650352\_1\_1  
 Customer Reference: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
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### Site Details:

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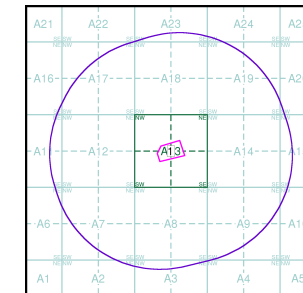
## Superficial Geology

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

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

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

## Superficial Geology Map - Slice A



### Order Details:

Order Number: 300650352\_1\_1  
 Customer Reference: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details:

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## Bedrock and Faults

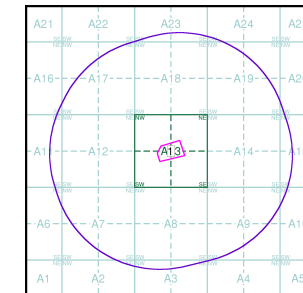
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

## Bedrock and Faults Map - Slice A



## Order Details:

Order Number: 300650352\_1\_1  
 Customer Reference: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

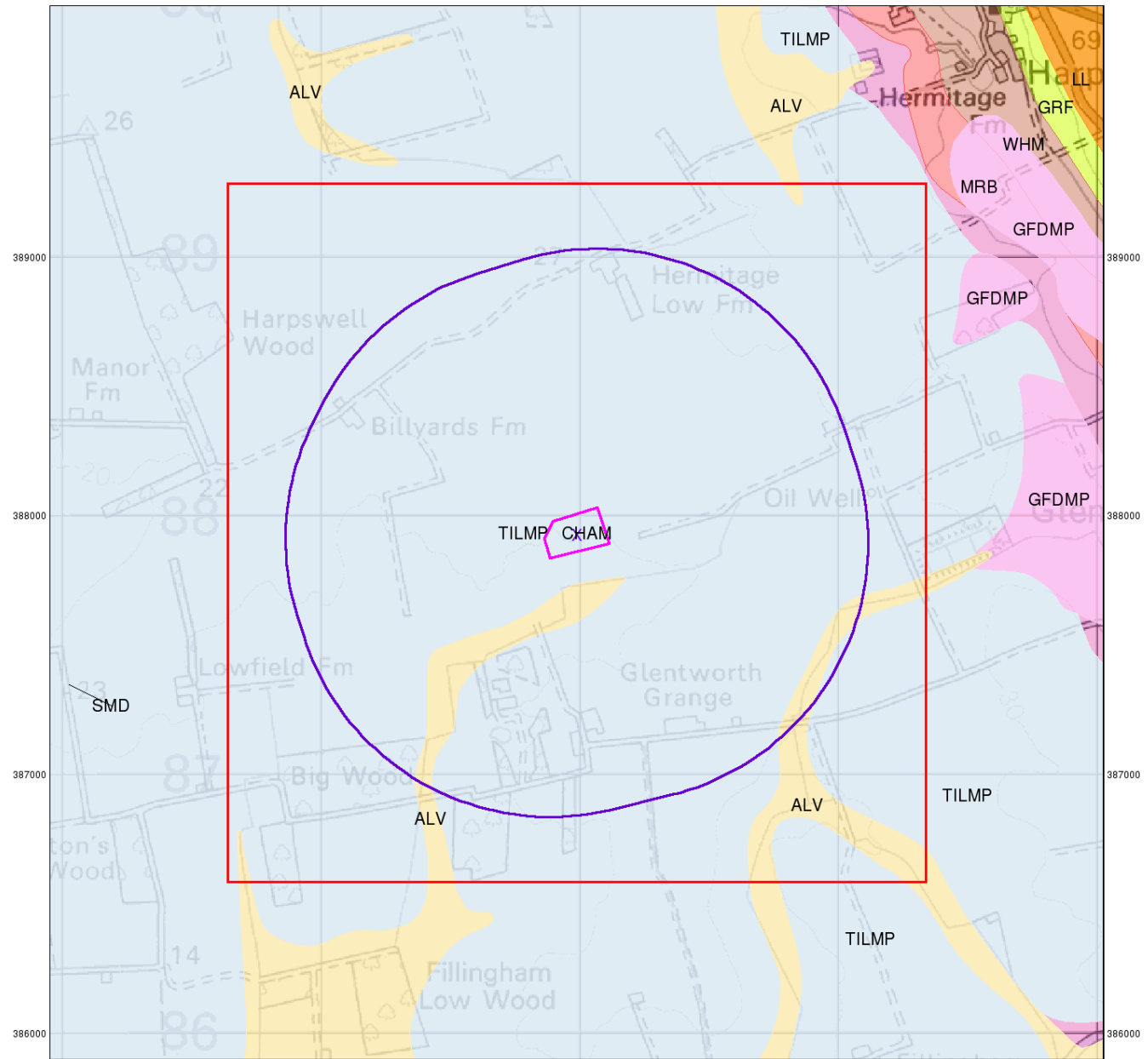
## Site Details:

Glentworth West Well site, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

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490000 491000 492000 493000 494000



389000 388000 387000 386000

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## Combined Surface Geology

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

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

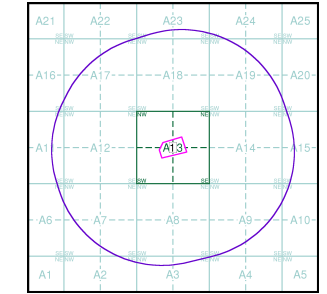
## Additional Information

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

## Contact

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

## Combined Geology Map - Slice A



## Order Details:

Order Number: 300650352\_1\_1  
 Customer Reference: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

## Site Details:

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## **APPENDIX 3 - SITE SENSITIVITY REPORT**



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## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

300650352\_1\_1

**Customer Reference:**

File 522

**National Grid Reference:**

491990, 387930

**Slice:**

A

**Site Area (Ha):**

3.16

**Search Buffer (m):**

1000

#### Site Details:

Glentworth West Wellsite

Off Northlands Road

Glentworth

Gainsborough

Lincolnshire

DN21 5DN

#### Client Details:

Mr J Foster

Zetland Group Ltd

The Innovation Centre

Vienna Court

Kirkleatham Business Park

REDCAR

North Yorkshire

TS10 5SH

#### Prepared For:

IGas Energy Production Limited

Glentworth West Wellsite

Off Northlands Road

Glentworth

Gainsborough

DN21 5DN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	10
Hazardous Substances	-
Geological	11
Industrial Land Use	12
Sensitive Land Use	13
Data Currency	14
Data Suppliers	18
Useful Contacts	19

### Introduction

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

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### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 1				2
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					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 2				(*5)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 4		3	5	40

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 10	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 11	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 11		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 12				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
<b>Sensitive Land Use</b>					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 13	1		1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	0	1	491987 387950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	0	1	491987 387928
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	323	1	492250 387600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	435	1	492300 387500
1	<b>Discharge Consents</b> Operator: The Occupier Property Type: Domestic Property (Multiple) Location: Grange Cottages Kexby Road, Glentworth, Gainsborough, Lincs, Dn21 5dp Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr3nfa1062 Permit Version: 1 Effective Date: 30th May 1963 Issued Date: 30th May 1963 Revocation Date: 5th August 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: Not Supplied <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b> Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	847	2	492600 387200
2	<b>Integrated Pollution Prevention And Control</b> Name: Igas Energy Production Limited Location: Glentworth K Wellsite - Epr/Rp3437yq, Glentworth K Wellsite, Northlands Road, Glentworth,, Gainsborough, Lincolnshire, DN21 5DW Authority: Environment Agency, Anglian Region Permit Reference: KP3205BX Original Permit Ref: Rp3437yq Effective Date: 21st November 2019 <b>Status: Effective</b> Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2A(1)e(i) Activity Description: Gasification, Liquifac And Refining Primary Activity: Y	A15NW (E)	999	2	493090 388100
2	<b>Integrated Pollution Prevention And Control</b> Name: Igas Energy Production Limited Location: Glentworth K Wellsite - Epr/Rp3437yq, Glentworth K Wellsite, Northlands Road, Glentworth,, Gainsborough, Lincolnshire, DN21 5DW Authority: Environment Agency, Anglian Region Permit Reference: EP3835JQ Original Permit Ref: Rp3437yq Effective Date: 27th June 2018 <b>Status: Superseded By Variation</b> Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2 Part A (1) e) (i) 2017 Activity Description: Loading/Storage/Treatment Etc Of Crude Oil Primary Activity: Y	A15NW (E)	999	2	493090 388100
	<b>Nearest Surface Water Feature</b>	A13SE (S)	5	-	492003 387860



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Glentworth &amp; Scottish Farms  Licence Number: 4/30/06/**/018  Permit Version: Not Supplied  Location: GLENTWRTH  Authority: Environment Agency, Anglian Region  Abstraction: Impounding  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 68  Yearly Rate (m3): Not Supplied  Details: Status: Perpetuity  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</p>	A15SE (E)	1386	2	493495 387795
	<p><b>Water Abstractions</b></p> <p>Operator: Glentworth Scottish Farms Ltd  Licence Number: 4/30/06/*S/0018  Permit Version: 100  Location: Un-Named Watercourse-Glentwrth  Authority: Environment Agency, Anglian Region  Abstraction: General Agriculture: Spray Irrigation - Storage  Abstraction Type: Water may be abstracted from a single point  Source: Surface  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 March  Permit Start Date: 1st February 1992  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A15SE (E)	1390	2	493500 387800
	<p><b>Water Abstractions</b></p> <p>Operator: Glentworth &amp; Scottish Farms  Licence Number: 4/30/06/**/018  Permit Version: Not Supplied  Location: GLENTWRTH  Authority: Environment Agency, Anglian Region  Abstraction: Fill Etc Reservoir Transfer  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 68  Yearly Rate (m3): Not Supplied  Details: Status: Perpetuity  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</p>	A15SE (E)	1390	2	493500 387800
	<p><b>Water Abstractions</b></p> <p>Operator: Glentworth &amp; Scottish Farms  Licence Number: 4/30/06/**/018  Permit Version: Not Supplied  Location: GLENTWRTH  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 68  Yearly Rate (m3): Not Supplied  Details: Status: Perpetuity  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</p>	A15SE (E)	1391	2	493500 387795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: Glentworth Scottish Farms Ltd            Licence Number: 4/30/06/*S/0018            Permit Version: 101            Location: Un-Named Watercourse At Glentworth            Authority: Environment Agency, Anglian Region            Abstraction: General Agriculture: Spray Irrigation - Storage            Abstraction Type: Water may be abstracted from a single point            Source: Surface            Daily Rate (m3): Not Supplied            Yearly Rate (m3): Not Supplied            Details: Not Supplied            Authorised Start: 01 January            Authorised End: 31 March            Permit Start Date: 9th July 2004            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A15SE (E)	1557	2	493670 387890
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability            Combined Vulnerability: Medium            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: Low            Bedrock Flow: Poorly Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: 40-70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: Low</p>	A13SE (E)	0	3	491987 387928
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability            Combined Vulnerability: Medium            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: Low            Bedrock Flow: Poorly Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: 40-70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: Low</p>	A13SE (E)	0	3	492000 387928
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability            Combined Vulnerability: Medium            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: Low            Bedrock Flow: Poorly Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: 40-70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: Low</p>	A13NE (N)	0	3	491987 388000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Groundwater Vulnerability Map</b> Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Poorly Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13NE (N)	0	3	492000 388000
	<b>Groundwater Vulnerability - Soluble Rock Risk</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (E)	0	3	491987 387928
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (E)	0	3	491987 387928
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
3	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 763.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (S)	5	4	492003 387860
4	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 660.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (S)	122	4	492018 387738
5	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 200.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SW (S)	127	4	491914 387713
6	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	267	4	491847 387573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 411.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	270	4	491841 387570
8	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 493.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (NW)	292	4	491801 388257
9	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 235.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (E)	428	4	492541 387886
10	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 644.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A14SW (E)	441	4	492552 387853
11	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	533	4	492615 388070
12	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 158.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	535	4	492596 388139
13	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	536	4	492612 388089
14	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	536	4	492613 388086
15	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	539	4	492615 388090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 371.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SE (SW)	552	4	491378 387617
17	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 383.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	558	4	492633 388098
18	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 62.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NE (SW)	572	4	491486 387426
19	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NE (SW)	572	4	491486 387426
20	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NE (SW)	573	4	491486 387424
21	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 598.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NE (SW)	578	4	491487 387417
22	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 615.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NW (N)	612	4	491972 388637
23	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 538.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NE (SW)	620	4	491424 387421
24	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 439.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	691	4	491181 387789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (SW)	710	4	491213 387606
26	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 214.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19SW (NE)	721	4	492606 388509
27	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 345.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8SE (S)	768	4	492261 387138
28	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 442.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17NE (NW)	785	4	491602 388708
29	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17NE (NW)	785	4	491602 388708
30	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 493.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17NE (NW)	792	4	491601 388715
31	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 161.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A19NW (NE)	822	4	492532 388710
32	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 297.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	822	4	492532 388710
33	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 482.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	843	4	491326 388602

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	884	4	492825 387370
35	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 419.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NW (N)	891	4	491809 388885
36	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	894	4	492831 387361
37	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 2	A19NW (NE)	909	4	492457 388853
38	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 2	A19NW (NE)	911	4	492455 388856
39	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 630.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	930	4	492914 387419
40	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 233.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7SE (SW)	939	4	491579 386948
41	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	940	4	492986 388247
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 183.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	945	4	492991 388249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 154.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	952	4	492862 387305
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 2	A19NW (NE)	956	4	492417 388922
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 2	A19NW (NE)	959	4	492415 388925
46	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A23SE (N)	969	4	492102 389000
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	980	4	492808 387203
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 325.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	988	4	492811 387193
49	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A23SE (N)	999	4	492184 389024
50	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A23SE (N)	999	4	492184 389024



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: West Lindsey District Council - Has no landfill data to supply		0	5	491987 387928
	<b>Local Authority Landfill Coverage</b> Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	6	491987 387928

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Lias Group	A13SE (E)	0	1	491987 387928
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	121	1	492022 387744
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	121	1	492022 387744
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	121	1	492022 387744
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	121	1	492022 387744
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	491987 387928

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Abel Chatsworth            Location: Glentworth Grange, Kexby Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DP            Classification: Damp &amp; Dry Rot Control  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	792	-	492453 387178

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	<b>Nitrate Vulnerable Zones</b> Name: Lower Witham Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (E)	0	3	491987 387928
53	<b>Nitrate Vulnerable Zones</b> Name: River Eau From Kirton Lindsey Trib To R Trent Nvz Description: Surface Water Source: Environment Agency, Head Office	A18SW (N)	279	3	491913 388288

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Environment Agency - Head Office West Lindsey District Council - Environmental Health Department	June 2020 September 2017	Annually Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	July 22 July 22	Quarterly Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region	March 2013	
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region	January 2009	
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region	July 2022	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> West Lindsey District Council - Environmental Health Department	November 2014	Variable
<b>Local Authority Pollution Prevention and Controls</b> West Lindsey District Council - Environmental Health Department	November 2014	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> West Lindsey District Council - Environmental Health Department	November 2014	Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	June 2022	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Midlands Region Environment Agency - Anglian Region	December 1999 September 1999	
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Anglian Region	July 2015	
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region	March 2013	
<b>Registered Radioactive Substances</b> Environment Agency - Anglian Region	June 2016	As notified
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	April 2012	
<b>Substantiated Pollution Incident Register</b> Environment Agency - Anglian Region - Northern Area	July 2022	Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	July 2022 July 2022	Quarterly Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region	October 2017	
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Groundwater Vulnerability - Soluble Rock Risk</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2022	Bi-Annually
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	July 2022	Quarterly
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	November 2002	As notified
<b>Historical Landfill Sites</b> Environment Agency - Head Office	April 2022	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Anglian Region	January 2009	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Anglian Region - Northern Area	April 2022	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Northern Area	April 2022	Quarterly
<b>Local Authority Landfill Coverage</b> Lincolnshire County Council West Lindsey District Council - Environmental Health Department	February 2003 February 2003	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Lincolnshire County Council West Lindsey District Council - Environmental Health Department	October 2018 October 2018	
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Northern Area	March 2006	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Northern Area	April 2018	
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Northern Area	June 2015	

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	January 2022	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	August 2001	
<b>Planning Hazardous Substance Enforcements</b> Lincolnshire County Council - Highways and Planning Department West Lindsey District Council	August 2010 February 2016	Variable Variable
<b>Planning Hazardous Substance Consents</b> Lincolnshire County Council - Highways and Planning Department West Lindsey District Council	August 2007 February 2016	Variable Variable
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	As notified
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2022	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	June 1998	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	As notified
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	As notified
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually

<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	July 2022	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	June 2022	Quarterly
<b>Gas Pipelines</b> National Grid	October 2021	Bi-Annually
<b>Underground Electrical Cables</b> National Grid	May 2021	Bi-Annually
<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Ancient Woodland</b> Natural England	February 2021	Bi-Annually
<b>Areas of Adopted Green Belt</b> West Lindsey District Council	July 2022	Quarterly
<b>Areas of Unadopted Green Belt</b> West Lindsey District Council	July 2022	Quarterly
<b>Areas of Outstanding Natural Beauty</b> Natural England	August 2022	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2021	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	January 2021	Bi-Annually
<b>National Parks</b> Natural England	February 2018	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2021	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2021	Bi-Annually



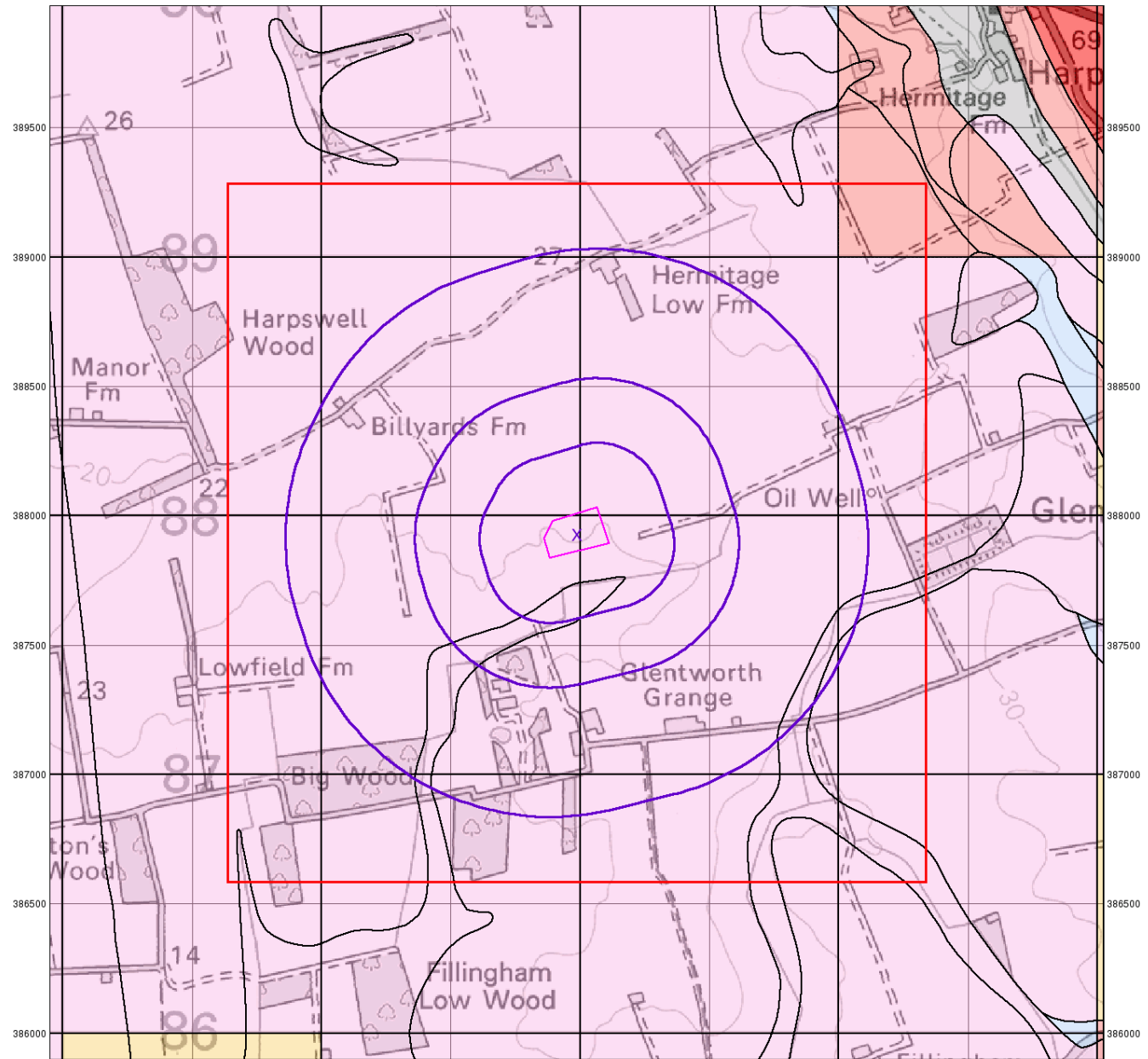
A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	<b>West Lindsey District Council - Environmental Health Department</b> The Guildhall, Caskgate Street, Gainsborough, Lincolnshire, DN21 2DH	Telephone: 01427 676676 Fax: 01427 810623 Website: www.west-lindsey.gov.uk
6	<b>Lincolnshire County Council</b> 4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN	Telephone: 01522 552222 Fax: 01522 552288 Email: PublicRelations@lincolnshire.gov.uk Website: www.lincolnshire.gov.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

490000 490500 491000 491500 492000 492500 493000 493500 494000



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0 1 km

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## Groundwater Vulnerability

### General

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

### Agency and Hydrological

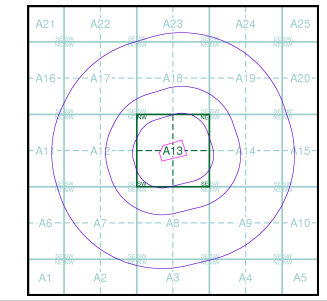
#### Bedrock Aquifers

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

#### Superficial Aquifers

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

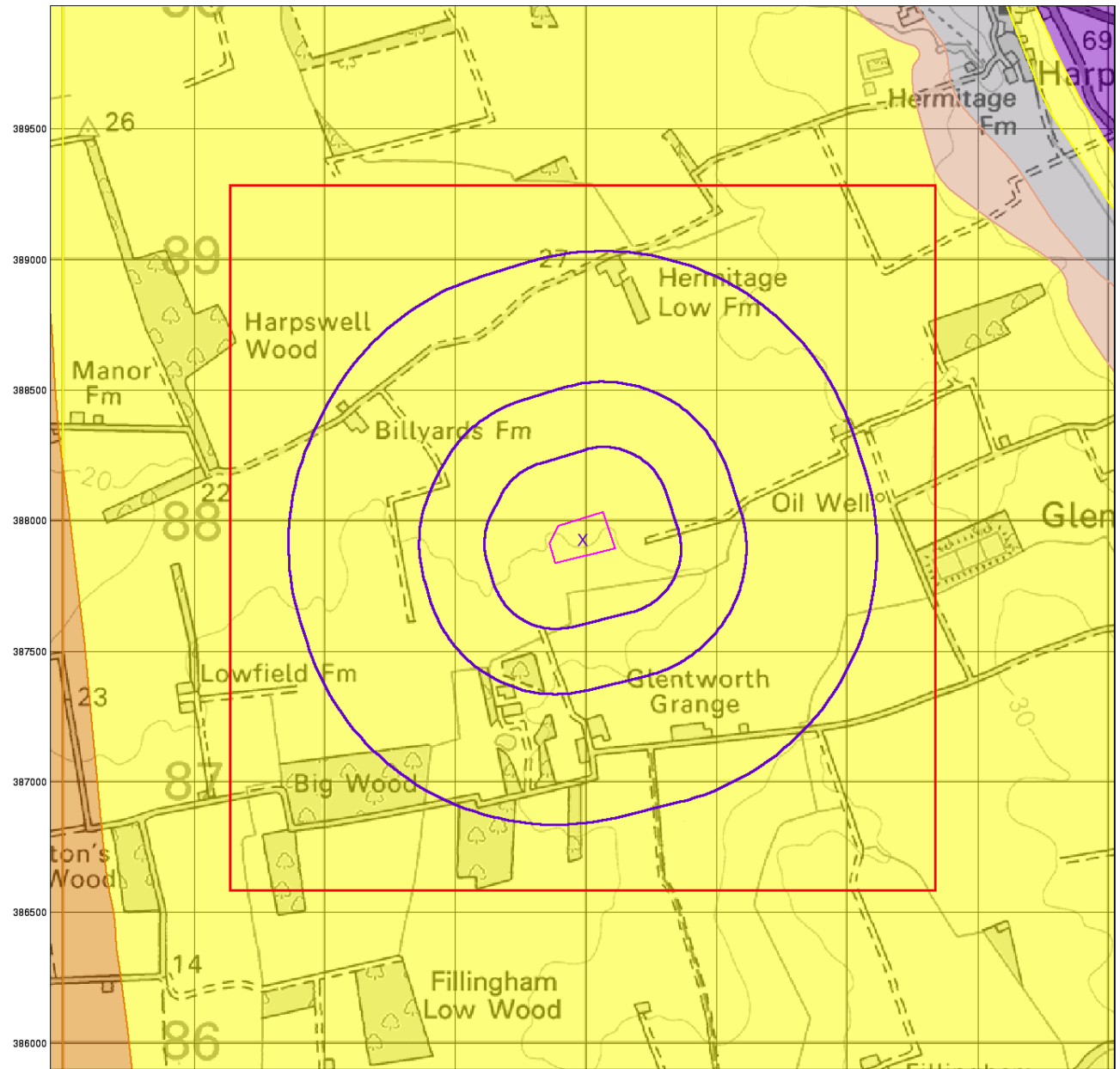
### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

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## Bedrock Aquifer Designation

### General

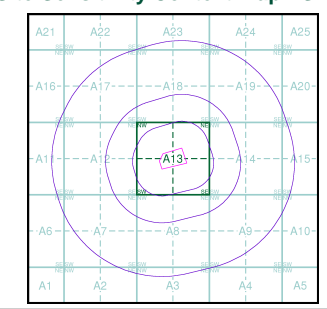
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

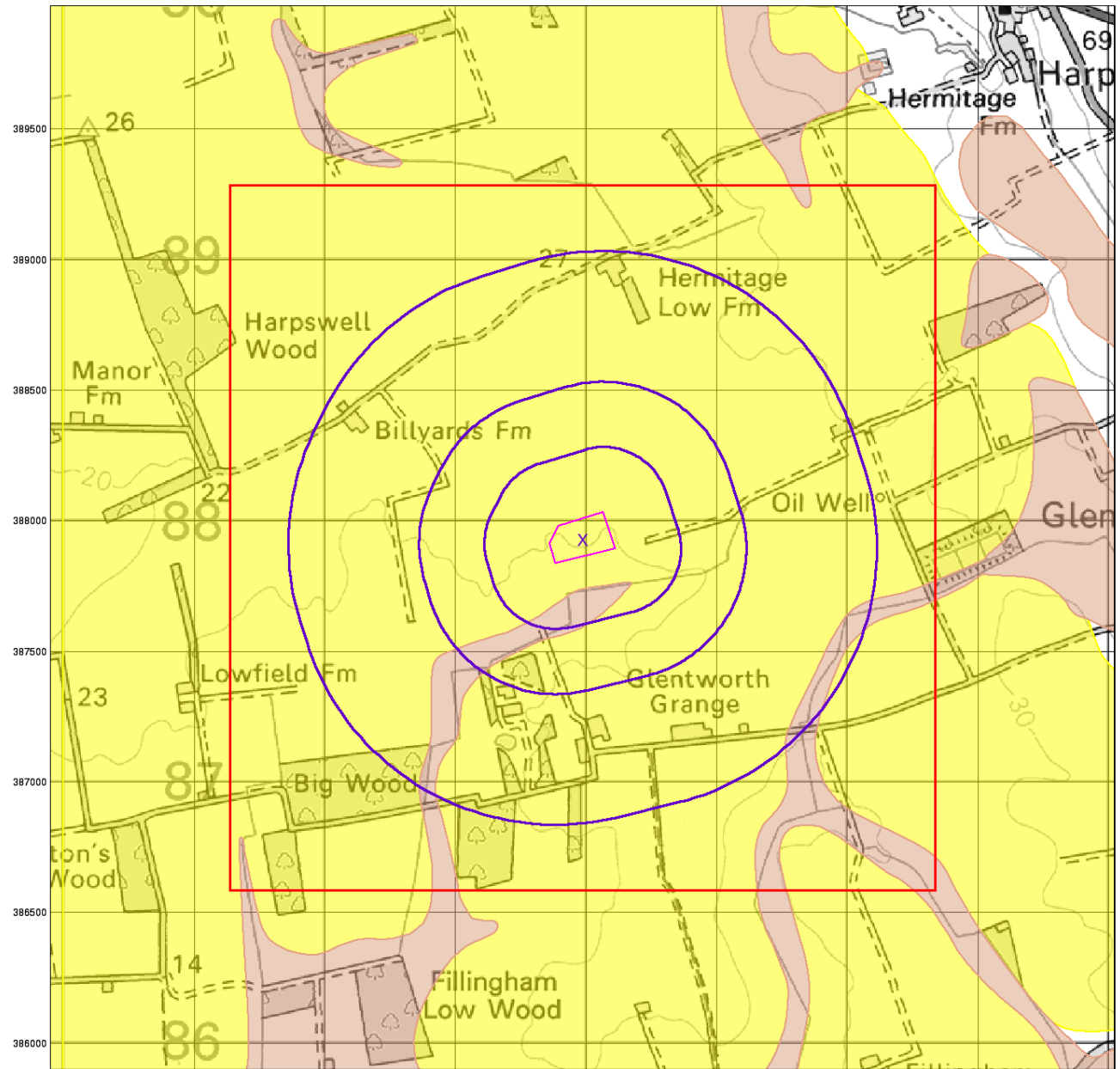
### Site Details

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## Superficial Aquifer Designation

### General

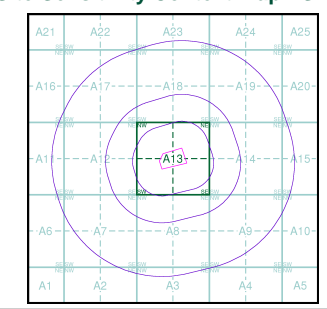
- Specified Site
- Specified Buffer(s)
- Slice
- Bearing Reference Point
- Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

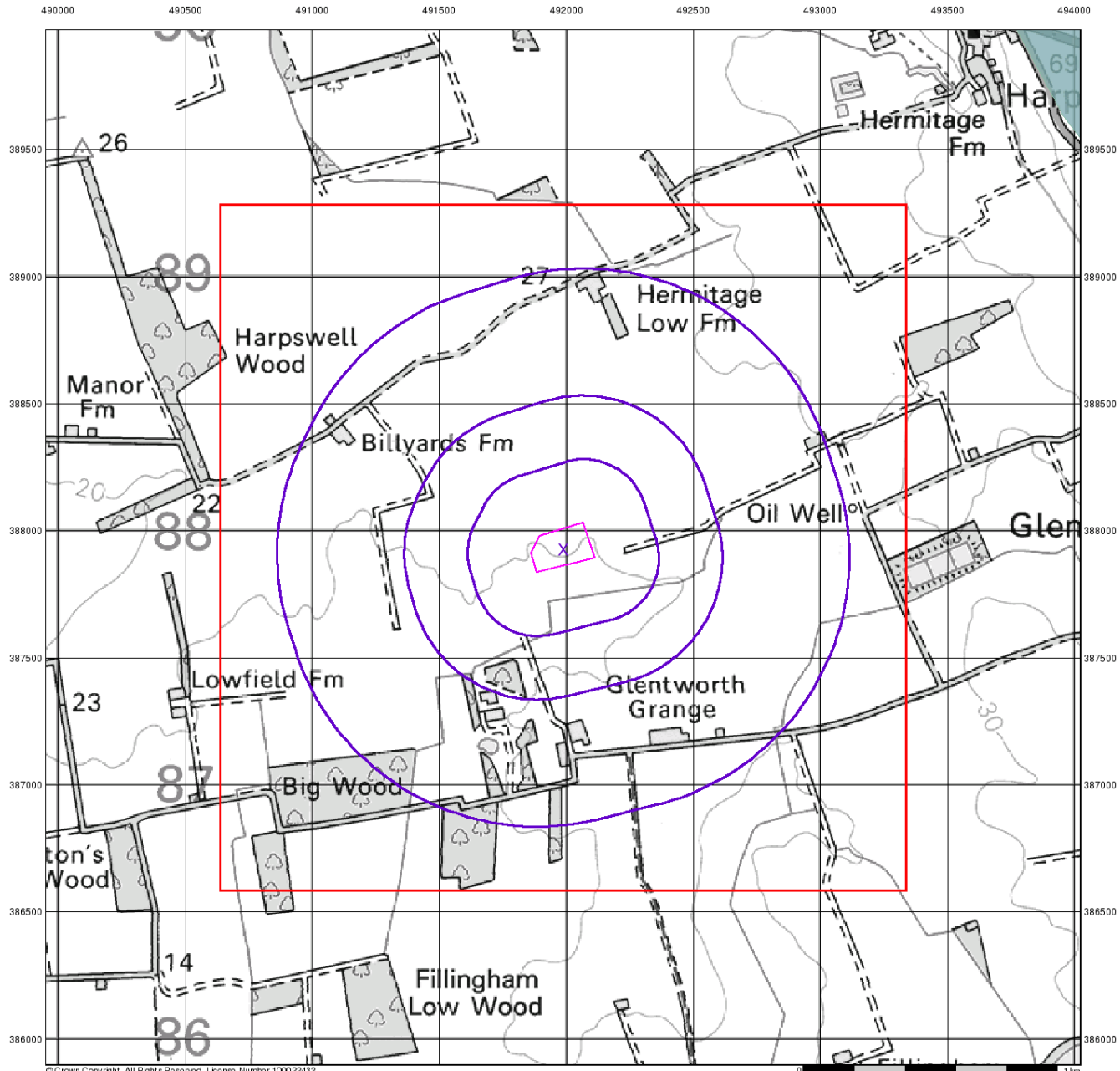
Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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## Source Protection Zones

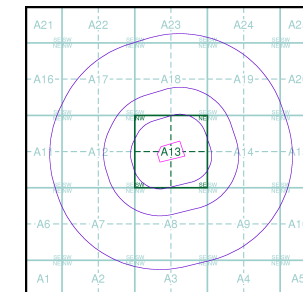
### General

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

### Agency and Hydrological

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

### Site Sensitivity Context Map - Slice A



### Order Details

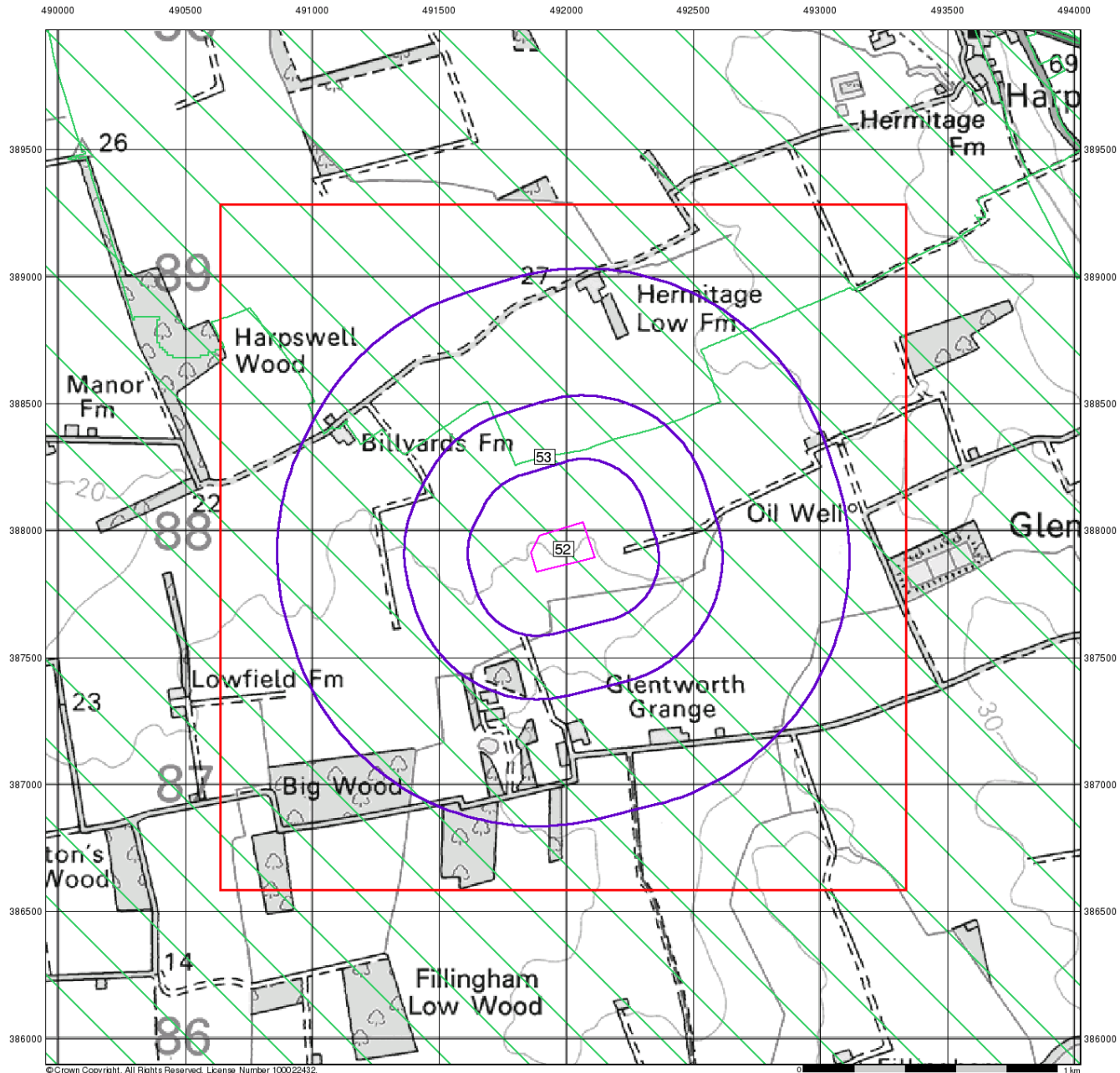
Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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## Sensitive Land Uses

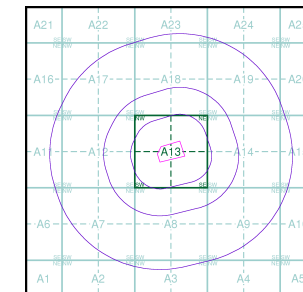
### General

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

### Sensitive Land Uses

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

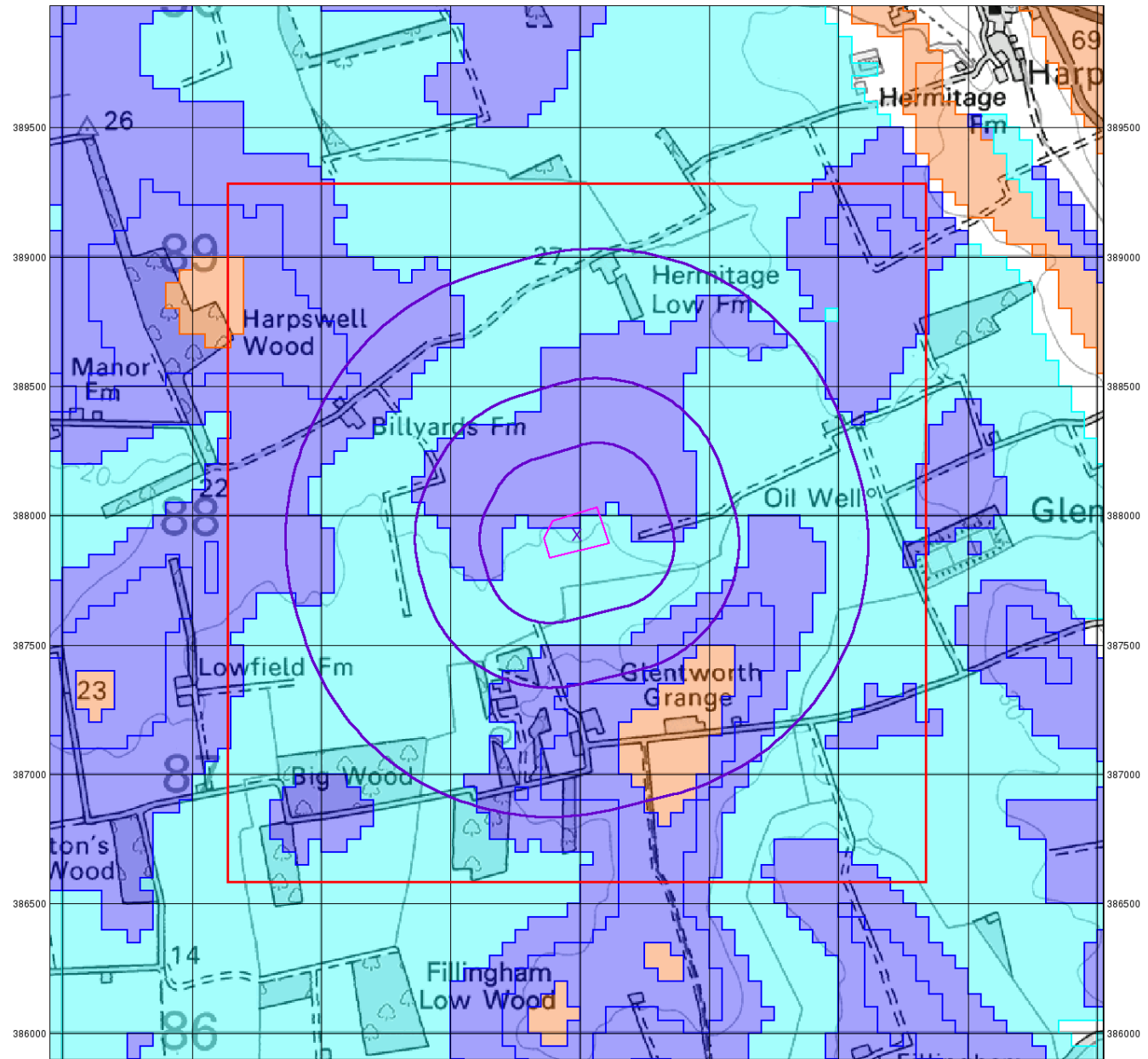
### Site Details

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## BGS Flood GFS Data

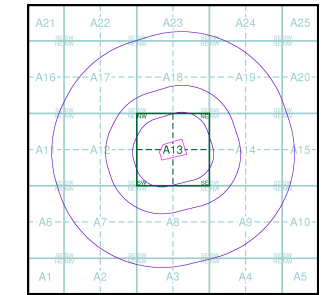
### General

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

### Agency and Hydrological (Flood)

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

## Site Sensitivity Context Map - Slice A



## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

## Site Details

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## 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 Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

## Waste

- 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

## Geological

- BGS Recorded Mineral Site

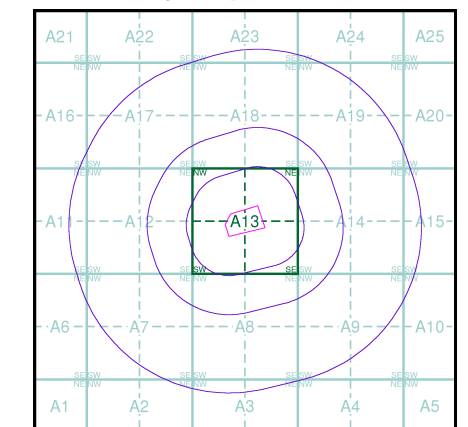
## Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

## Hazardous Substances

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

## Site Sensitivity Map - Slice A

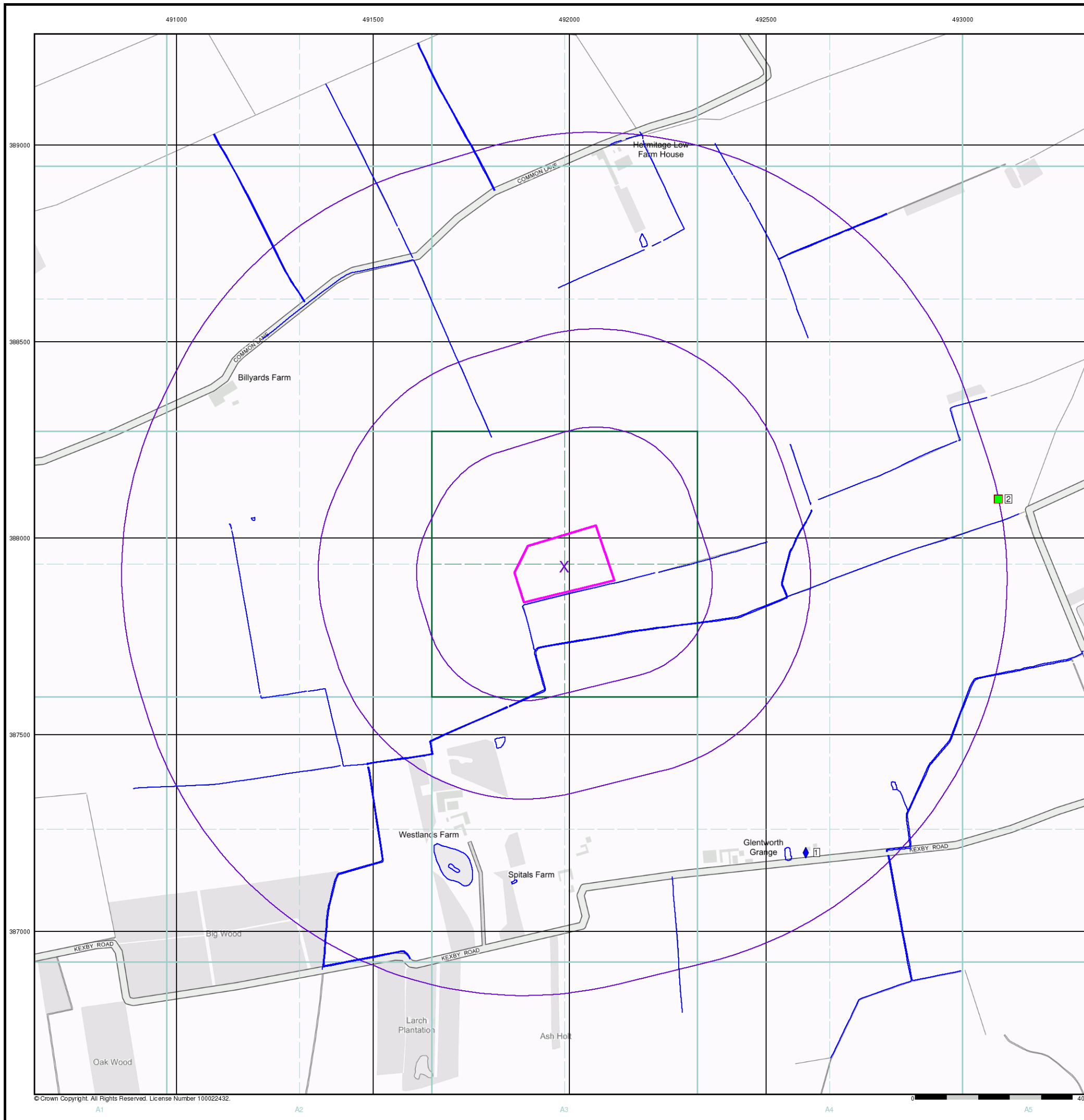


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000






## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN







## Industrial Land Use Map

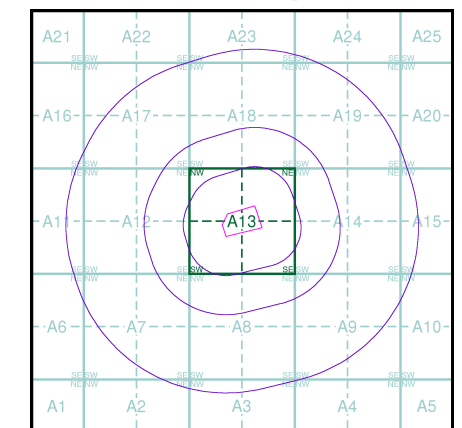
### General

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

### Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry
-  Gas Pipeline
-  Underground Electrical Cables

## Industrial Land Use Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000




### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN








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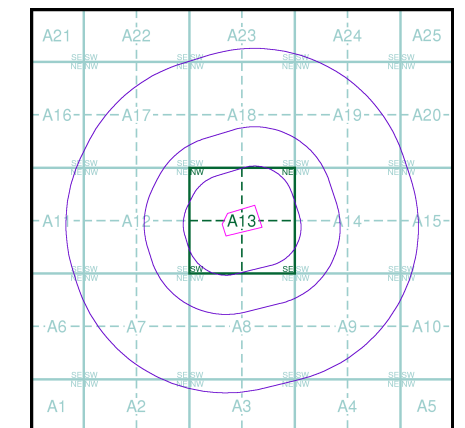
### General

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

### Agency and Hydrological (Flood)

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

### Flood Map - Slice A

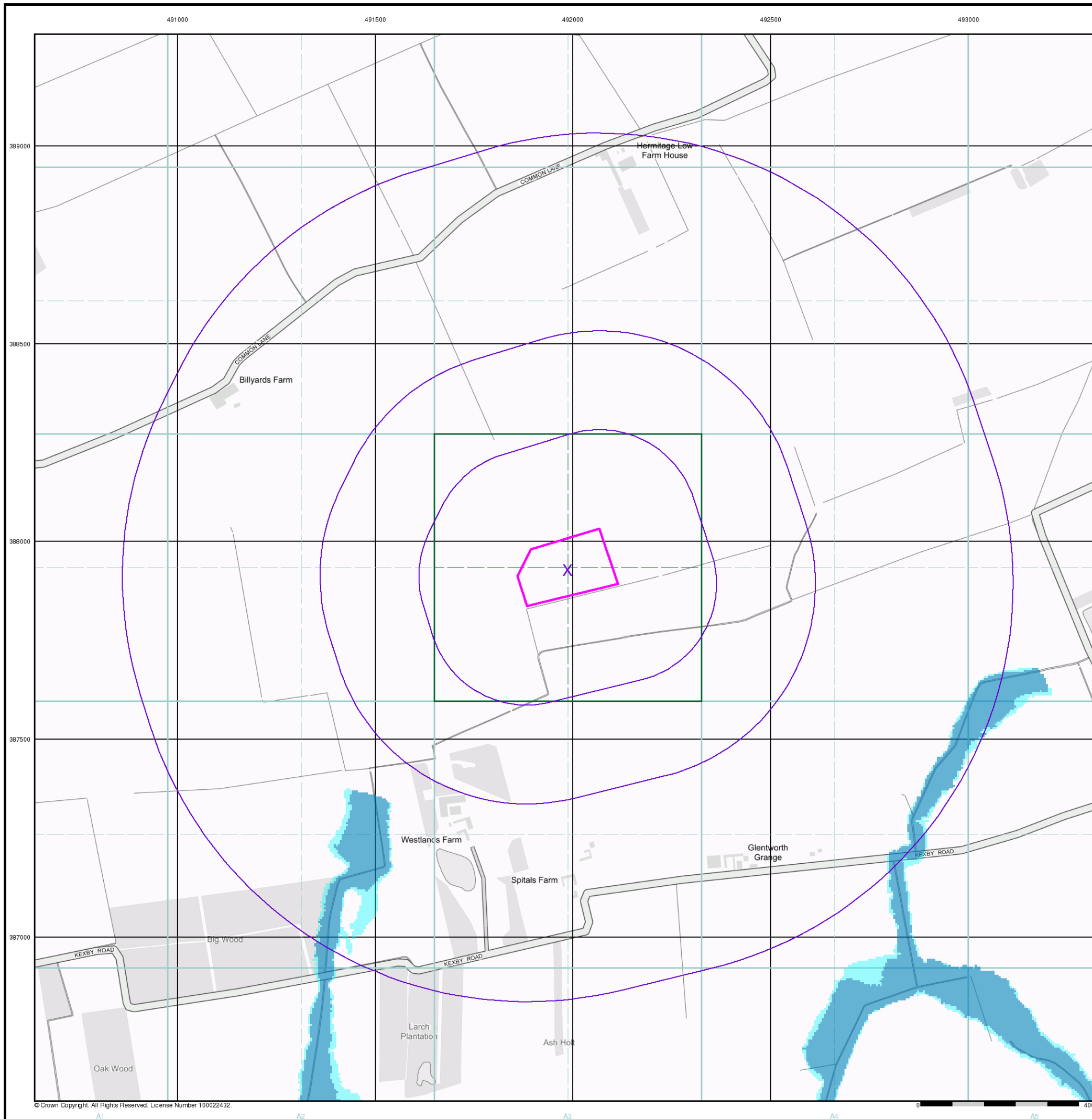


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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### General

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

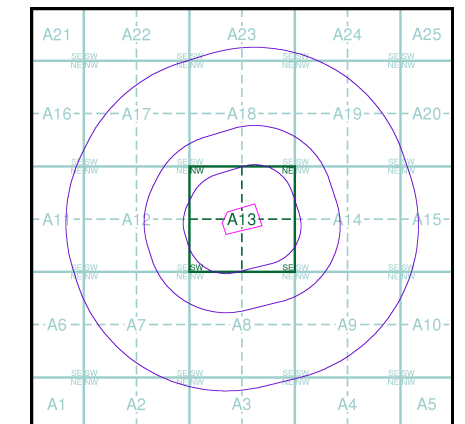
### Agency and Hydrological (Boreholes)

- 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](http://www.envirocheck.co.uk).

### Borehole Map - Slice A

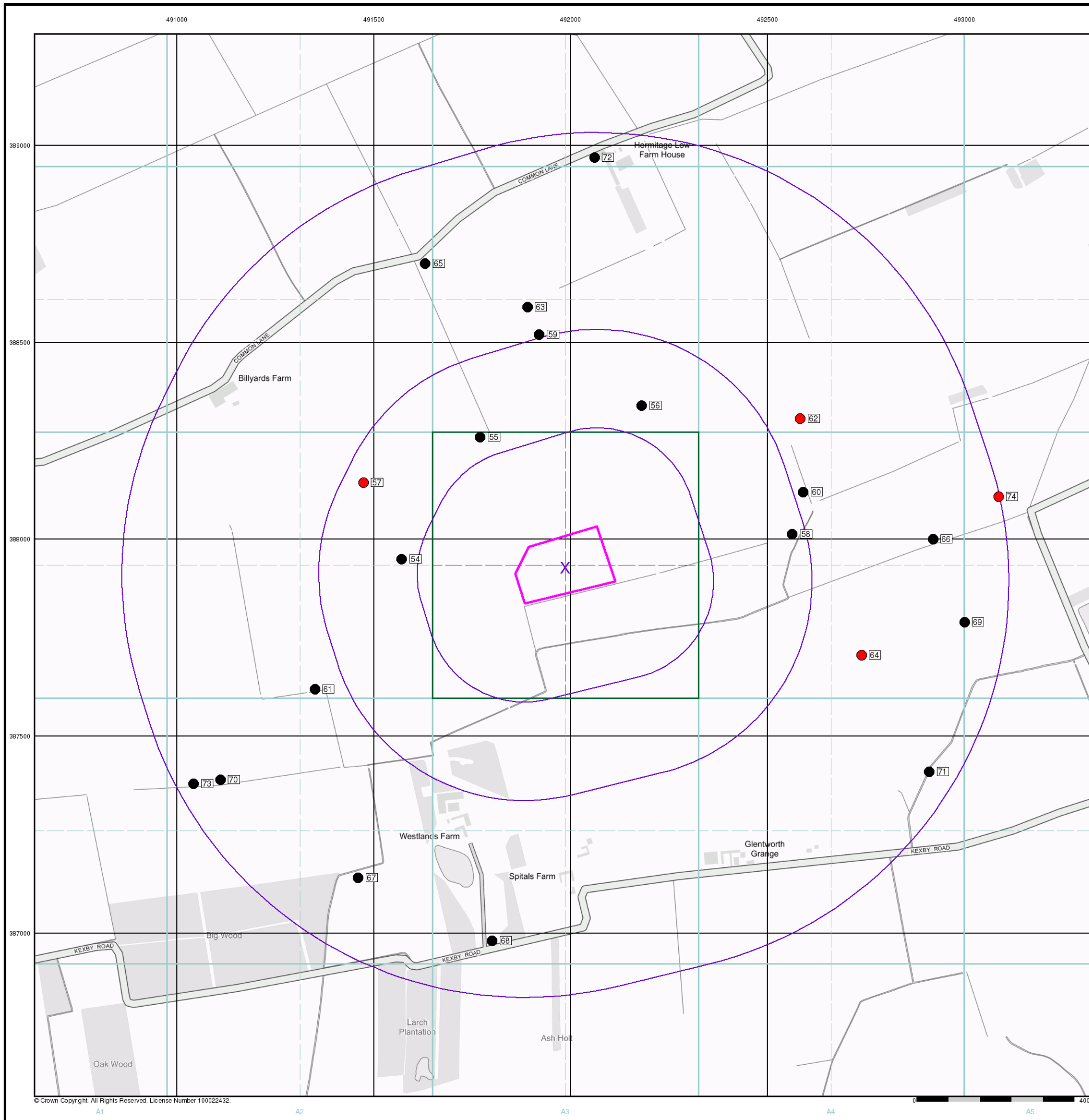


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000




### Site Details

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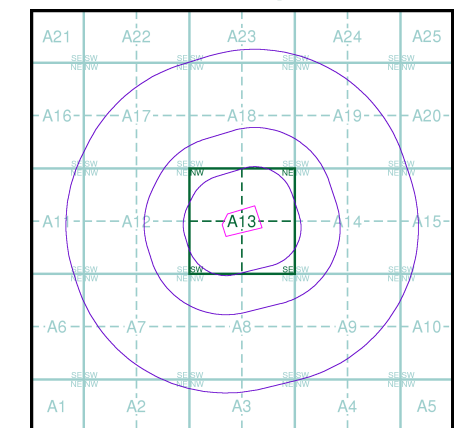
### General

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

### OS Water Network Data

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

### OS Water Network Map - Slice A

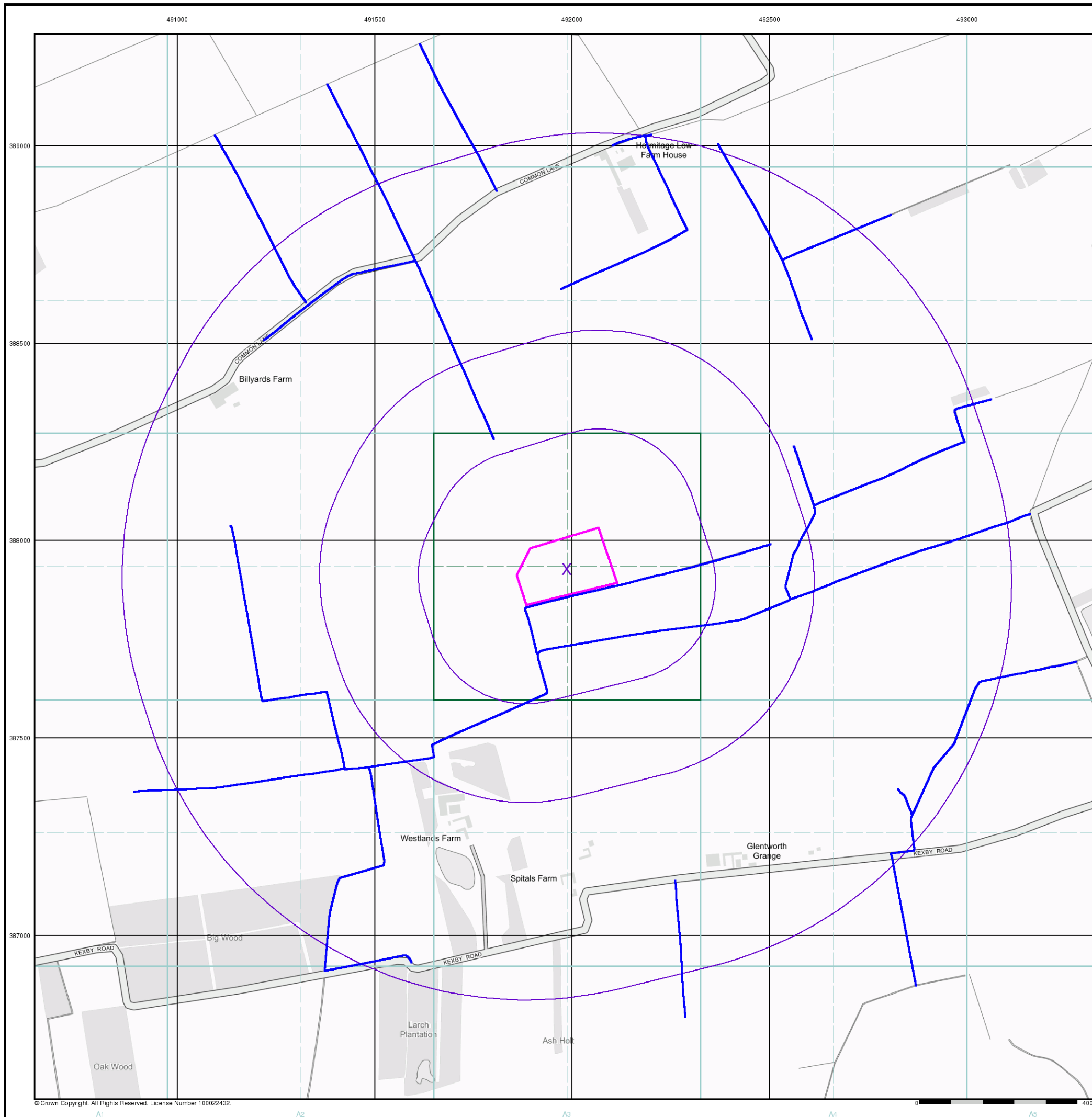


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

300650352\_1\_1

**Customer Reference:**

File 522

**National Grid Reference:**

491990, 387930

**Slice:**

A

**Site Area (Ha):**

3.16

**Search Buffer (m):**

1000

#### Site Details:

Glentworth West Wellsite

Off Northlands Road

Glentworth

Gainsborough

Lincolnshire

DN21 5DN

#### Client Details:

Mr J Foster

Zetland Group Ltd

The Innovation Centre

Vienna Court

Kirkleatham Business Park

REDCAR

North Yorkshire

TS10 5SH

#### Prepared For:

IGas Energy Production Limited

Glentworth West Wellsite

Off Northlands Road

Glentworth

Gainsborough

DN21 5DN

Report Section	Page Number
Summary	-
Ecology	1
Heritage	-
Water & Hydrology	2
Visual and Landscape	-
Data Currency	8
Data Suppliers	10
Useful Contacts	11

### Introduction

The process of an Environmental Impact Assessment is governed by the Town and Country Planning (Environmental Impact Assessment) Regulations 2011. These regulations apply the EU directive "on the assessment of the effects of certain public and private projects on the environment" (usually referred to as the Environmental Impact Assessment Directive) to the planning system in England.

The aim of the Envirocheck Environmental Impact Assessment Report is to provide the necessary site-specific environmental data required to assess the potential environmental effects of a development. Ultimately this assessment is required by the local planning authority in order to decide whether or not to grant planning permission for a project, so as to protect the environment. The regulations set out a procedure for identifying those projects which should be subject to an Environmental Impact Assessment, and for assessing, consulting and coming to a decision on those projects which are likely to have significant environmental effects.

The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

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

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### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
<b>Ecology</b>					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Outstanding Natural Beauty					
Areas of Unadopted Green Belt					
Country Parks					
Environmentally Sensitive Areas					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 1	1		1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
<b>Heritage</b>					
Historic Battlefields					
Listed Buildings					
Scheduled Monuments					
World Heritage Sites					
<b>Water &amp; Hydrology</b>					
Areas Benefiting from Flood Defences				n/a	n/a
BGS Groundwater Flooding Susceptibility	pg 2	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
OS Water Network Lines	pg 2		3	5	40
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Historic Flood Events				n/a	n/a
Source Protection Zones					
<b>Visual and Landscape</b>					
Historic Parks, Gardens and Designed Landscapes					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Nitrate Vulnerable Zones</b> Name: Lower Witham Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (E)	0	1	491987 387928
2	<b>Nitrate Vulnerable Zones</b> Name: River Eau From Kirton Lindsey Trib To R Trent Nvz Description: Surface Water Source: Environment Agency, Head Office	A18SW (N)	279	1	491913 388288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	0	2	491987 387950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	0	2	491987 387928
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (E)	0	1	491987 387928
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (E)	0	1	491987 387928
3	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 763.1 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A13SE (S)	5	3	492003 387860
4	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 660.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A13SE (S)	122	3	492018 387738
5	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 200.9 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A13SW (S)	127	3	491914 387713
6	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A8NW (S)	267	3	491847 387573
7	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 411.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A8NW (S)	270	3	491841 387570
8	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 493.3 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A13NW (NW)	292	3	491801 388257
9	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 235.6 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14SW (E)	428	3	492541 387886

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 644.3 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 2	A14SW (E)	441	3	492552 387853
11	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	533	3	492615 388070
12	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 158.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	535	3	492596 388139
13	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	536	3	492612 388089
14	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	536	3	492613 388086
15	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	539	3	492615 388090
16	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 371.1 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A12SE (SW)	552	3	491378 387617
17	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 383.4 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NW (E)	558	3	492633 388098
18	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 62.5 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7NE (SW)	572	3	491486 387426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7NE (SW)	572	3	491486 387426
20	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7NE (SW)	573	3	491486 387424
21	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 598.2 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7NE (SW)	578	3	491487 387417
22	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 615.1 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A18NW (N)	612	3	491972 388637
23	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 538.3 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7NE (SW)	620	3	491424 387421
24	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 439.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A12SW (W)	691	3	491181 387789
25	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A12SW (SW)	710	3	491213 387606
26	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 214.3 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A19SW (NE)	721	3	492606 388509
27	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 345.7 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A8SE (S)	768	3	492261 387138

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 442.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A17NE (NW)	785	3	491602 388708
29	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A17NE (NW)	785	3	491602 388708
30	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 493.2 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A17NE (NW)	792	3	491601 388715
31	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 161.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Not Supplied Primacy: 2	A19NW (NE)	822	3	492532 388710
32	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 297.4 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A19NW (NE)	822	3	492532 388710
33	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 482.4 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A17SE (NW)	843	3	491326 388602
34	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 10.5 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9NE (SE)	884	3	492825 387370
35	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 419.5 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A18NW (N)	891	3	491809 388885
36	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9NE (SE)	894	3	492831 387361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 2	A19NW (NE)	909	3	492457 388853
38	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.1 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 2	A19NW (NE)	911	3	492455 388856
39	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 630.6 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9NE (SE)	930	3	492914 387419
40	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 233.0 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A7SE (SW)	939	3	491579 386948
41	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NE (E)	940	3	492986 388247
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 183.5 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A14NE (E)	945	3	492991 388249
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 154.5 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9NE (SE)	952	3	492862 387305
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 2	A19NW (NE)	956	3	492417 388922
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 2	A19NW (NE)	959	3	492415 388925









Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A23SE (N)	969	3	492102 389000
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9SE (SE)	980	3	492808 387203
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 325.8 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Witham Primacy: 1	A9SE (SE)	988	3	492811 387193
49	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: Underground Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A23SE (N)	999	3	492184 389024
50	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Watercourse Name: Not Supplied Permanent: True Catchment Name: Trent Primacy: 1	A23SE (N)	999	3	492184 389024
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Historic Flood Events</b> None				

Ecology	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	February 2021	Bi-Annually
<b>Areas of Outstanding Natural Beauty</b> Natural England	August 2022	Bi-Annually
<b>Country Parks</b> Natural England	October 2017	Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Local Nature Reserves</b> Natural England	February 2021	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	January 2021	Bi-Annually
<b>National Parks</b> Natural England	February 2018	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2021	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2021	Bi-Annually



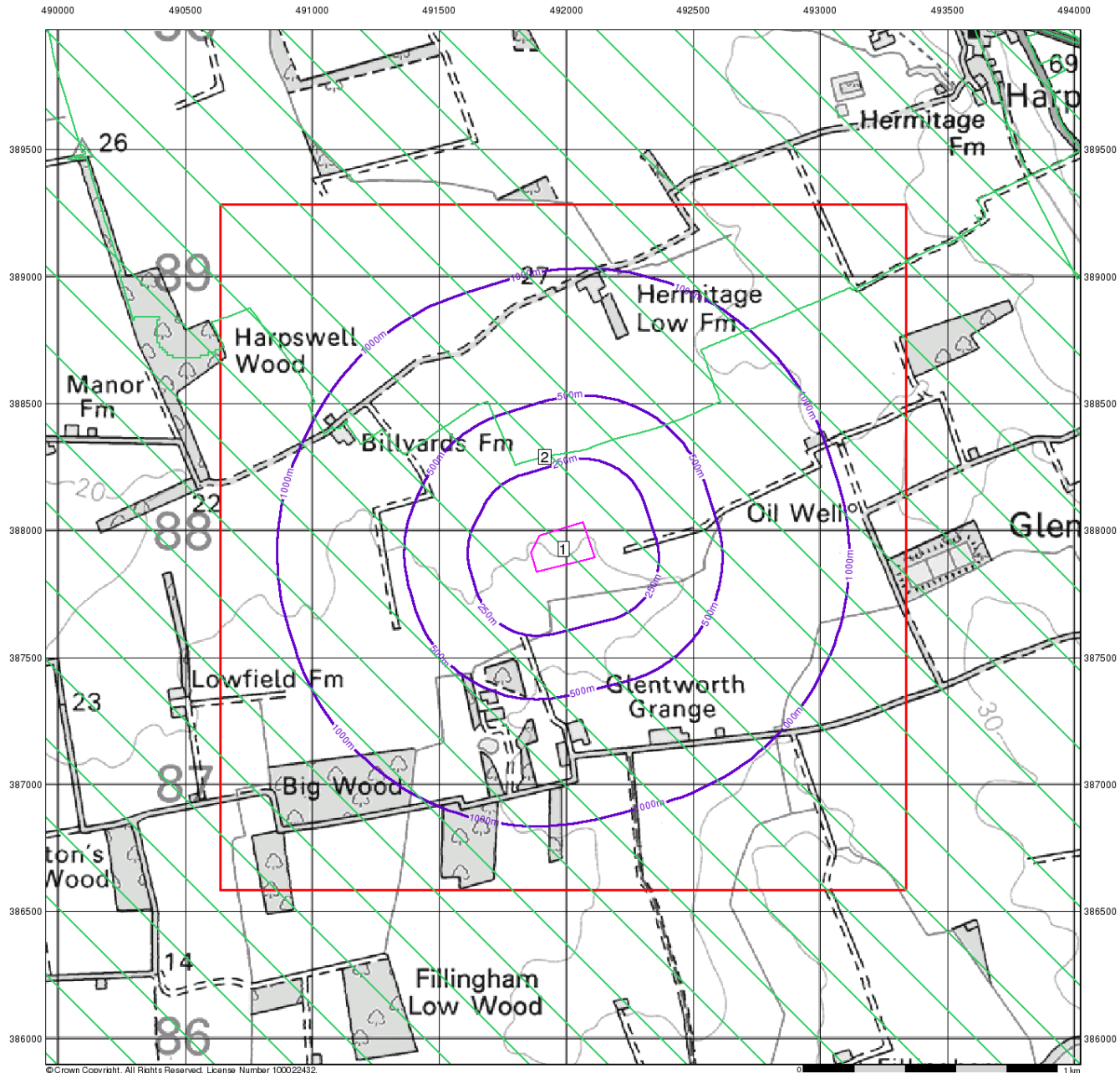
Agency & Hydrological	Version	Update Cycle
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>OS Water Network Lines</b> Ordnance Survey	July 2022	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Historic Flood Events</b> Environment Agency - Head Office	August 2022	Quarterly
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2022	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
British Geological Survey	 <p><b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p><b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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## Ecology

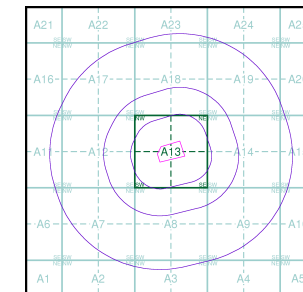
### General

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

### Ecology

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Outstanding Natural Beauty
- Area of Unadopted Green Belt
- Country Parks
- 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

### Ecology - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

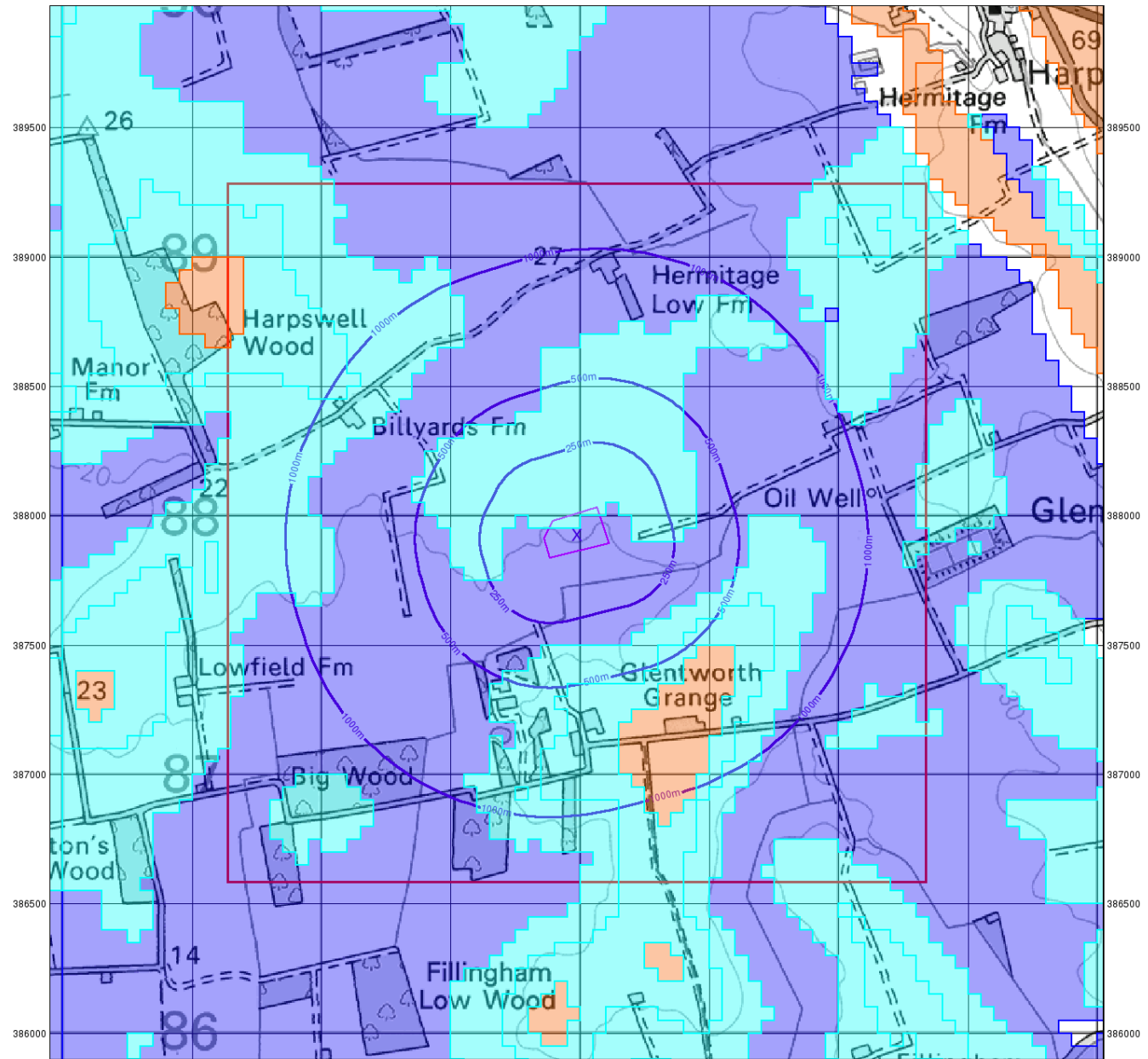
### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

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 Fax: 0844 844 9951  
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## Water and Hydrology

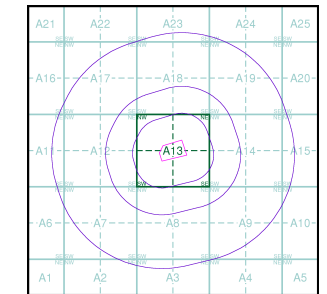
### General

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

### Groundwater Flooding Susceptibility

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

### Groundwater Flooding Susceptibility - Slice A



### Order Details

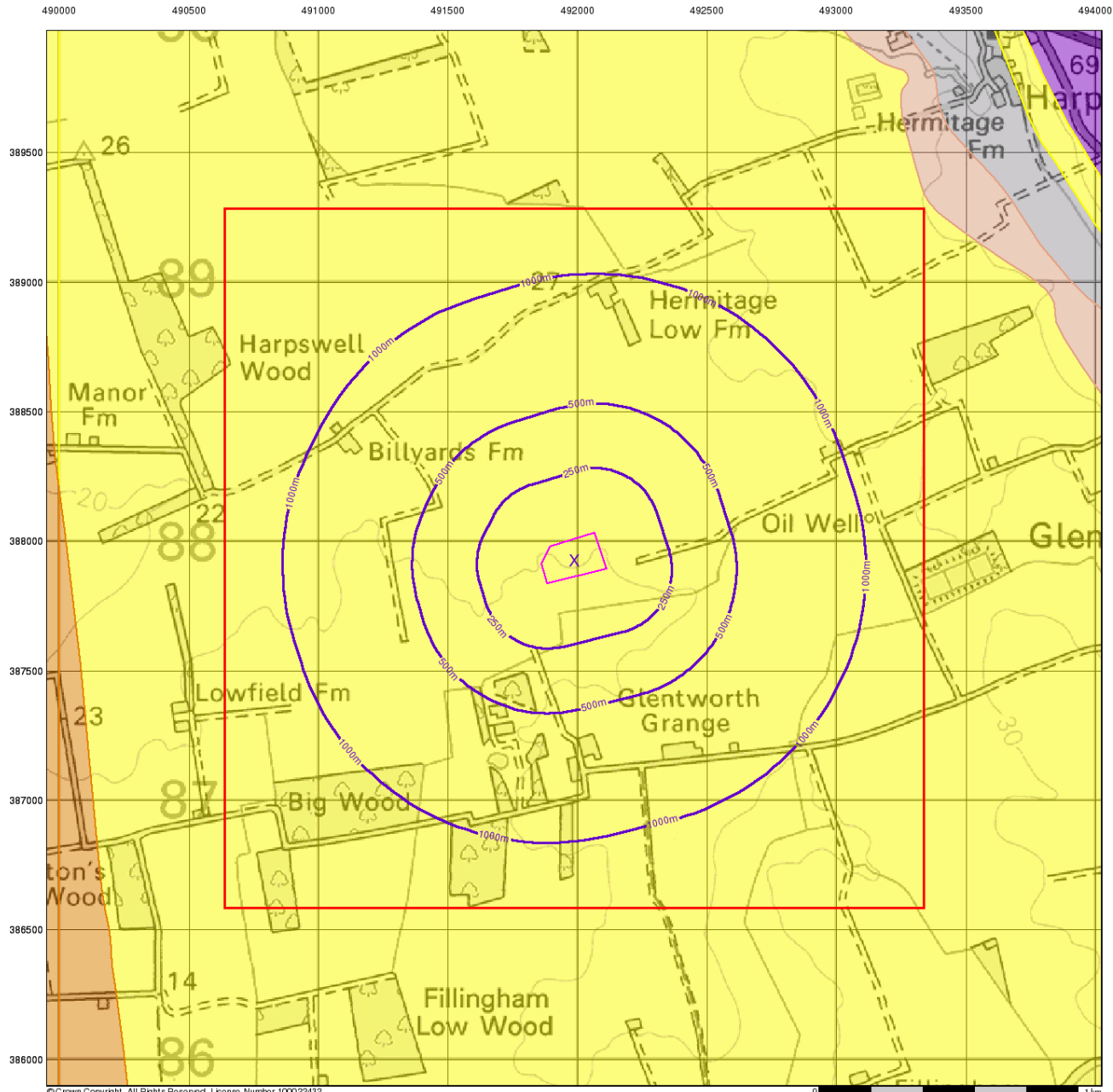
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 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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## Water and Hydrology

### General

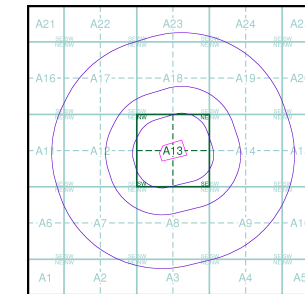
- X Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

## Bedrock Aquifer Designations

### Geological Classes

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

## Bedrock Aquifer Designations - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

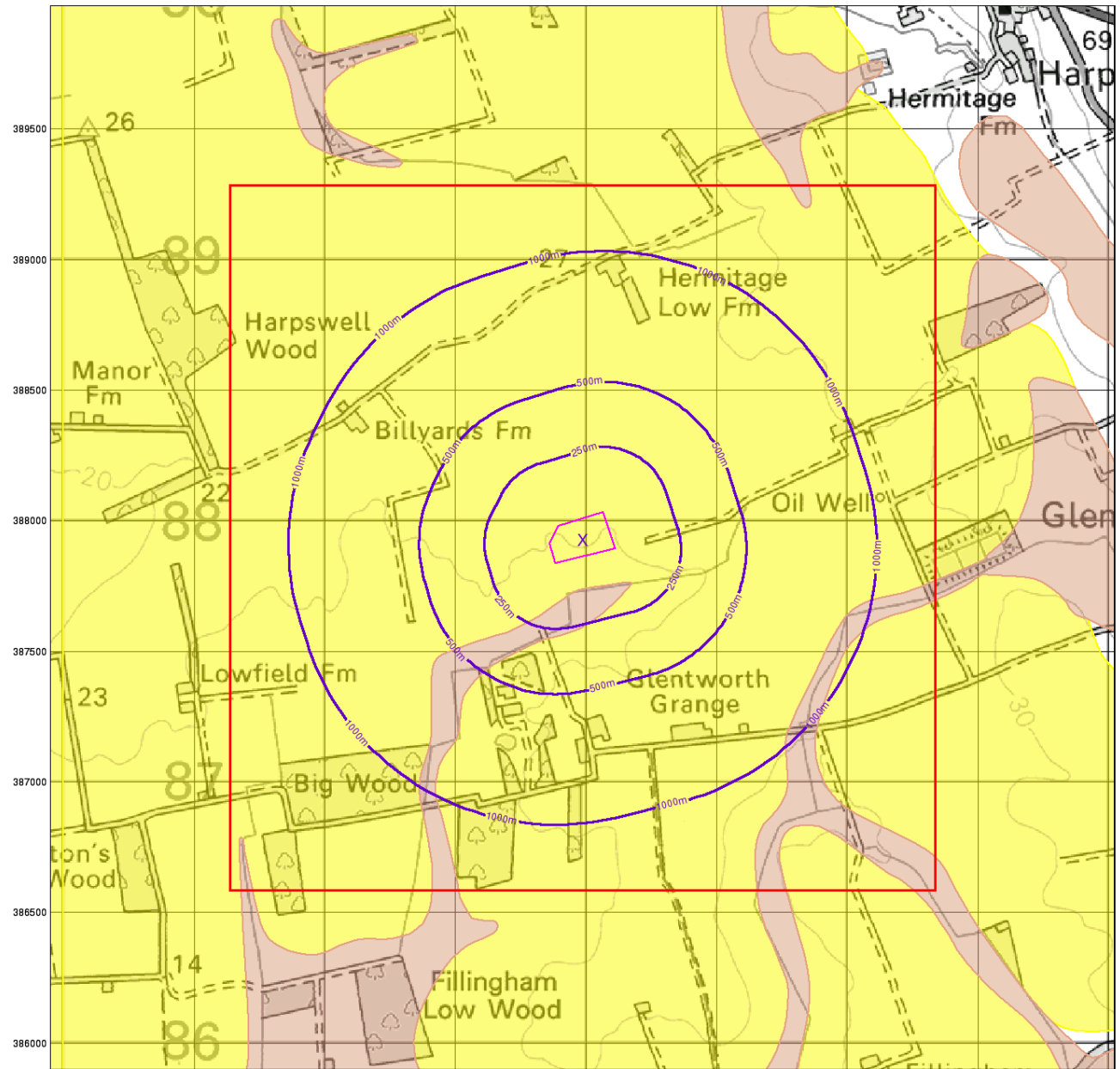
### Site Details

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## Water and Hydrology

### General

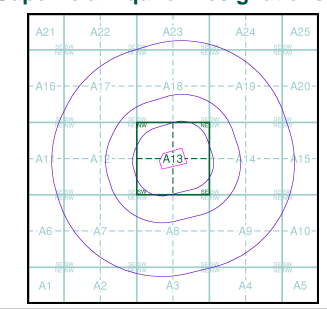
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Superficial Aquifer Designations

#### Geological Classes

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

### Superficial Aquifer Designations - Slice A



### Order Details

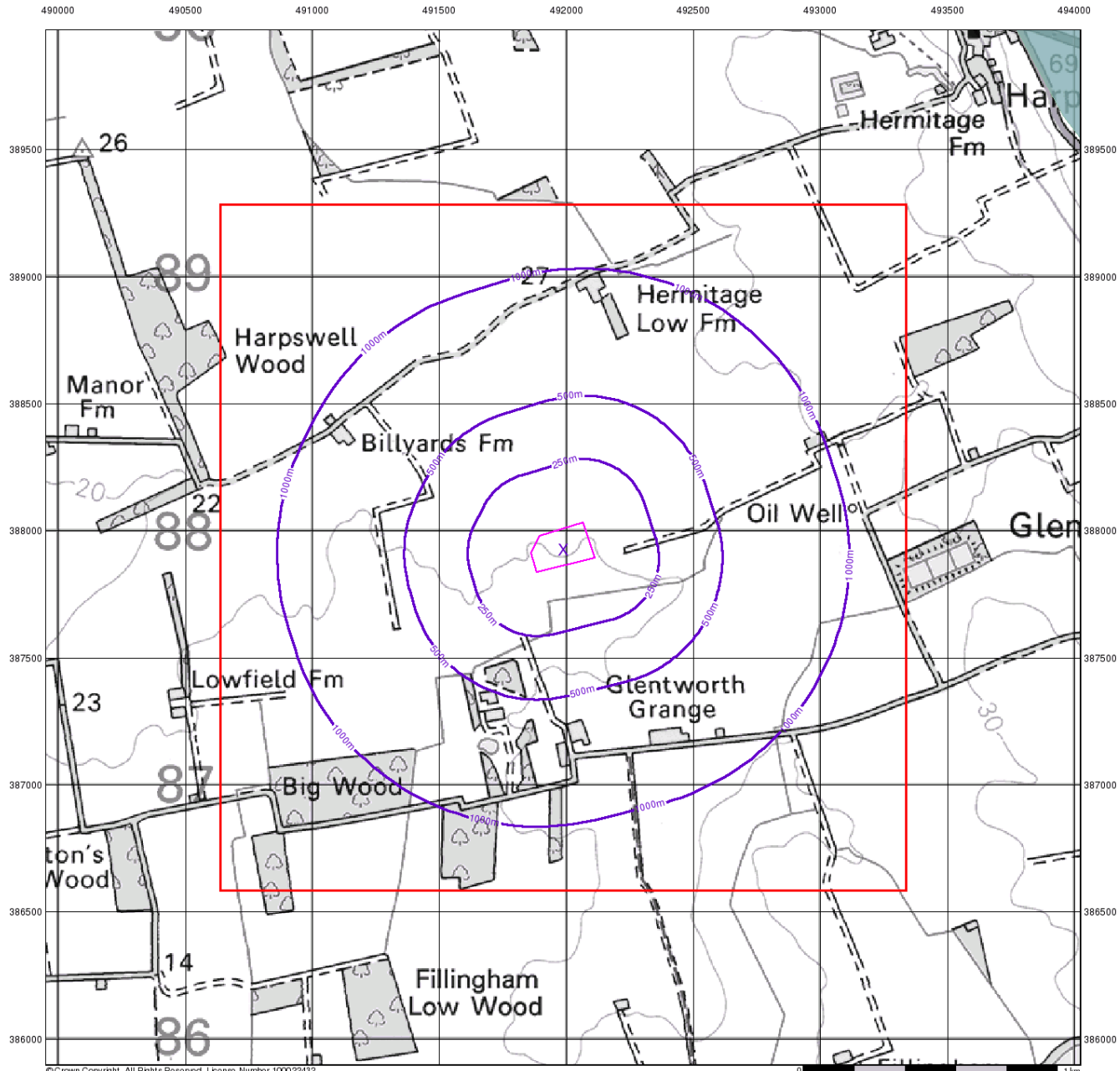
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 Slice: A  
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 Search Buffer (m): 1000

### Site Details

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## Water and Hydrology

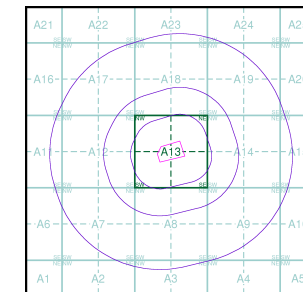
### General

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

### Source Protection Zones

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

### Source Protection Zones - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

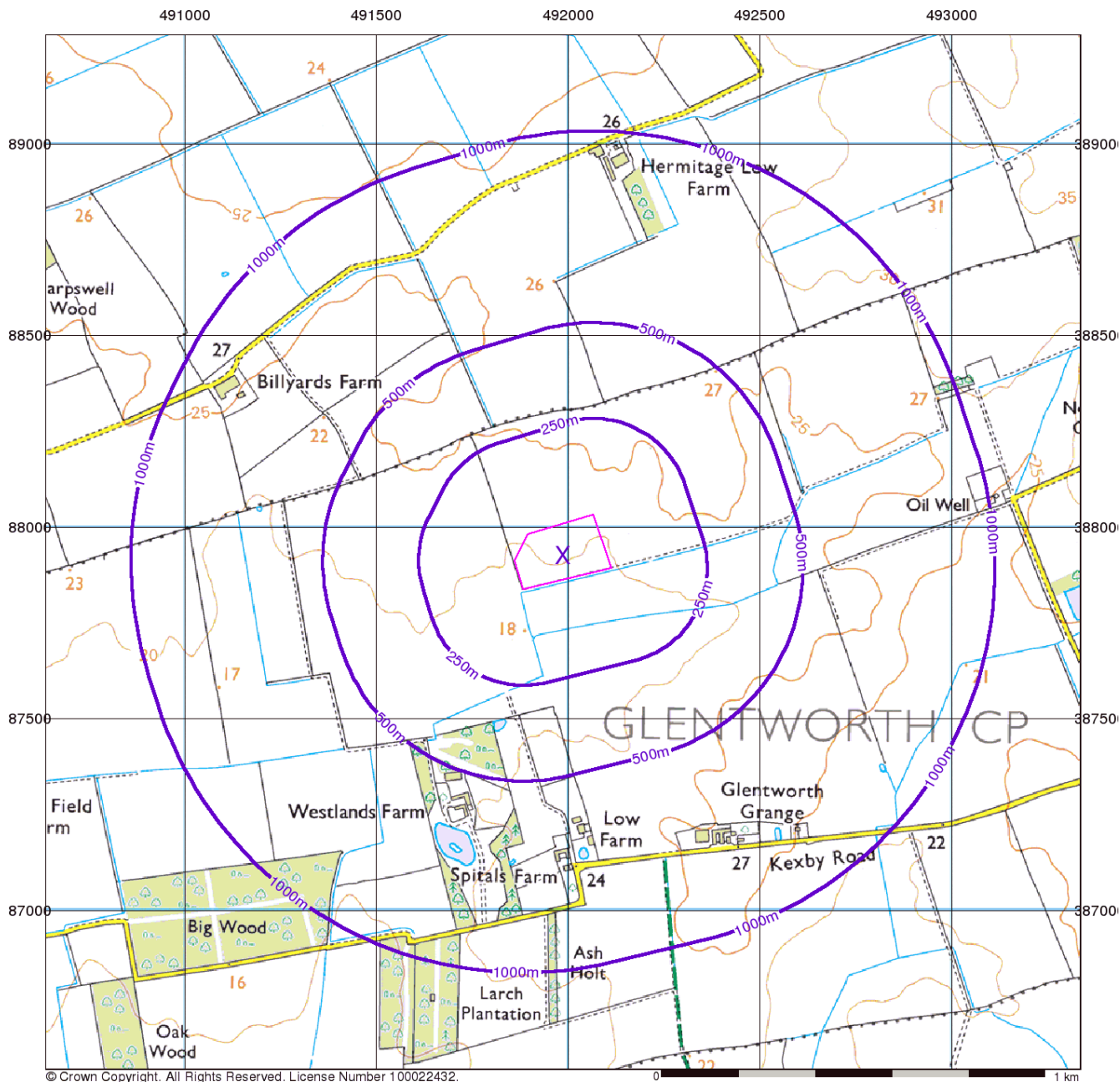
### Site Details

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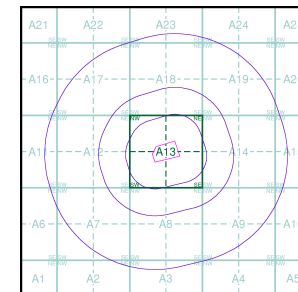
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## Site Location

### General

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

### Site Location - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
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 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

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# OS Explorer Map / 1:25 000 Scale Colour Raster

## Customer Information

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## Communications

### ROADS AND PATHS Not necessarily rights of way

	Service area
	Junction number
	Motorway
	Dual carriageway
	Main road
	Secondary road
	Narrow road with passing places
	Road under construction
	Road generally more than 4 m wide
	Road generally less than 4 m wide
	Other road, drive or track, fenced and unfenced
	Gradient: steeper than 20% (1 in 5); 14% (1 in 7) to 20% (1 in 5)
	Ferry; Ferry P - passenger only
	Path

### RAILWAYS

	Multiple track } standard gauge
	{ Narrow gauge or Light rapid transit system (LRTS) and station
	Road over; road under; level crossing
	Cutting; tunnel; embankment
	Station, open to passengers; siding

### PUBLIC RIGHTS OF WAY (Rights of way are not shown on maps of Scotland)

	Footpath
	Bridleway
	Byway open to all traffic
	Restricted byway (not for use by mechanically propelled vehicles)

Public rights of way shown on this map have been taken from local authority definitive maps and later amendments.

Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information

**The representation on this map of any other road, track or path is no evidence of the existence of a right of way**

### OTHER PUBLIC ACCESS

	Other routes with public access (not normally shown in urban areas)
The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available	
	National Trail / Long Distance Route
	Recreational Route
	Permissive footpath } Footpaths and bridleways along which landowners have permitted public use but which are not rights of way. The agreement may be withdrawn
	Traffic-free cycle route
	National cycle network route number - traffic free
	National cycle network route number - on road

### Scotland

In Scotland, everyone has access rights in law\* over most land and inland water, provided access is exercised responsibly. **This includes walking, cycling, horse-riding and water access, for recreational and educational purposes, and for crossing land or water.**

Access rights do not apply to motorised activities, hunting, shooting or fishing, nor if your dog is not under proper control. The **Scottish Outdoor Access Code** is the reference point for responsible behaviour, and can be obtained at [www.outdooraccess-scotland.com](http://www.outdooraccess-scotland.com) or by phoning your local Scottish Natural Heritage office. \* Land Reform (Scotland) Act 2003

	National Trust for Scotland, always open / limited opening - observe local signs
	Forestry Commission Land / Woodland Trust Land

### England & Scotland

	Firing and test ranges in the area. Danger! Observe warning notices Champs de tir et d'essai. Danger! Se conformer aux avertissements Schiess und Erprobungsgelände. Gefahr! Warnschilder beachten Visit <a href="http://www.access.mod.uk">www.access.mod.uk</a> for information
--	---

### ACCESS LAND

#### England

Portrayal of access land on this map is intended as a guide to land which is normally available for access on foot, for example access land created under the Countryside and Rights of Way Act 2000, and land managed by the National Trust, Forestry Commission and Woodland Trust. Access for other activities may also exist. Some restrictions will apply; some land will be excluded from open access rights. The depiction of rights of access does not imply or express any warranty as to its accuracy or completeness. Observe local signs and follow the Countryside Code. Visit [www.countrysideaccess.gov.uk](http://www.countrysideaccess.gov.uk) for up-to-date information

	Access land boundary and tint
	Access land in woodland area
	Access information point
	Access permitted within managed controls for example, local byelaws Visit <a href="http://www.access.mod.uk">www.access.mod.uk</a> for information

# General Information

## VEGETATION

Limits of vegetation are defined by positioning of symbols

	Coniferous trees		Scrub		Orchard
	Non-coniferous trees		Bracken, heath or rough grassland		
	Coppice		Marsh, reeds or saltings		

## GENERAL FEATURES

+	Place of worship		Gravel pit		Sand pit
Current or former place of worship	<ul style="list-style-type: none"> <li> with tower</li> <li> with spire, minaret or dome</li> </ul>		Other pit or quarry		Landfill site or slag/spoil heap
	Building; important building	BP/BS	Boundary post/stone		
	Glasshouse	CG	Cattle grid		
	Youth hostel	CH	Clubhouse		
	Bunkhouse/camping barn/other hostel	FB	Footbridge		
	Bus or coach station	MP; MS	Milepost; milestone		
	Lighthouse; disused lighthouse; beacon	Mon	Monument		
	Triangulation pillar; mast	PO	Post office		
	Windmill, with or without sails	Pol Sta	Police station		
	Wind pump; wind turbine	Sch	School		
	Electricity transmission line	TH	Town hall		
	Slopes	NTL	Normal tidal limit		
		-W; Spr	Well; spring		

## BOUNDARIES

	National
	County (England)
	Unitary Authority (UA), Metropolitan District (Met Dist), London Borough (LB) or District (Scotland & Wales are solely Unitary Authorities)
	Civil Parish (CP) (England) or Community (C) (Wales)
	National Park boundary

## HEIGHTS AND NATURAL FEATURES

52	Ground survey height	Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill
284	Air survey height	
	Vertical face/cliff	
	Contours may be at 5 or 10 metres vertical interval	
	Loose rock	
	Boulders	
	Outcrop	
	Scree	
	Water	
	Mud	
	Sand; sand & shingle	

## ARCHAEOLOGICAL AND HISTORICAL INFORMATION

	Site of antiquity	VILLA	Roman
	Site of battle (with date)	Castle	Non-Roman
	Visible earthwork		

Information provided by English Heritage for England and the Royal Commissions on the Ancient and Historical Monuments for Scotland and Wales

# Selected Tourist and Leisure Information

## RENSEIGNEMENTS TOURISME ET LOISIRS SÉLECTIONNÉS

## AUSGEWÄHLTE INFORMATIONEN ZU TOURISTIK UND FREIZEITGESTALTUNG






	Parking / Park & Ride, all year/seasonal Parking / Parking et navette, ouvert toute l'année/en saison Parkplatz / Park & Ride, ganzjährig/saisonal
	Information centre, all year/seasonal Office de tourisme, ouvert toute l'année/en saison Informationsbüro, ganzjährig/saisonal
	Visitor centre Centre pour visiteurs Besucherzentrum
	Forestry Commission visitor centre Commission Forestière: Centre de visiteurs Staatsforst Besucherzentrum
	Public convenience Toilettes Öffentliche Toilette
	Telephone, public/roadside assistance/emergency Téléphone, public/borne d'appel d'urgence/urgence Telefon, öffentlich/Notrufsäule/Notruf
	Camp site/caravan site Terrain de camping/Terrain pour caravanes Campingplatz/Wohnwagenplatz
	Recreation/leisure/sports centre Centre de détente/loisirs/sports Erholungs-/Freizeit-/Sportzentrum
	Golf course or links Terrain de golf Golfplatz
	Theme/pleasure park Parc à thèmes/Parc d'agrément Vergnügungs-/Freizeitpark
	Preserved railway Chemin de fer touristique Museumseisenbahn
	Public house/s Pub/s Gaststätte/n
	Craft centre Centre artisanal Zentrum für Kunsthandwerk

	Walks/trails Promenades Wanderwege
	Cycle trail Piste cyclable Radfahrweg
	Mountain bike trail Chemin pour VTT Mountainbike-Strecke
	Cycle hire Location de vélos Fahrradverleih
	Horse riding Equitation Reitstall
	Viewpoint Point de vue Aussichtspunkt
	Picnic site Emplacement de pique-nique Picknickplatz
	Country park Parc naturel Landschaftspark
	Garden/arboretum Jardin/Arboretum Garten/Baumgarten
	Water activities Jeux aquatiques Wassersport
	Slipway Cale Helling
	Boat trips Croisières en bateau Bootsfahrten
	Boat hire Location de bateau Bootsverleih


















	Nature reserve Réserve naturelle Naturschutzgebiet
	Fishing Pêche Angeln
	Other tourist feature Autre site intéressant Sonstige Sehenswürdigkeit
	Cathedral/Abbey Cathédrale/Abbaye Kathedrale/Abtei
	Museum Musée Museum
	Castle/fort Château/Fortification Burg/Festung
	Building of historic interest Bâtiment d'intérêt historique Historisches Gebäude
	Heritage centre Centre d'héritage Heimatmuseum
	National Trust
	English Heritage
	Historic Scotland

## Site Sensitivity


### General

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


### Ecology

-  Ancient Woodland
-  Area of Adopted Green Belt
-  Area of Unadopted Green Belt
-  Area of Outstanding Natural Beauty
-  Country Parks
-  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

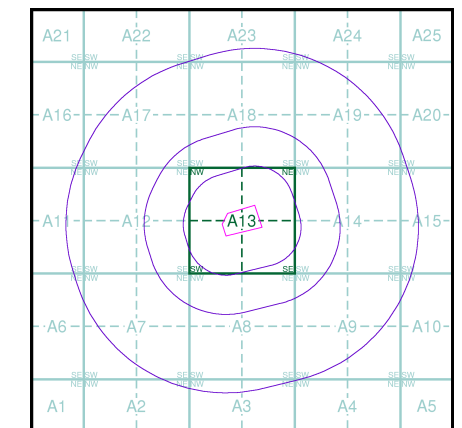
### Heritage

-  Historic Battlefields
-  Scheduled Monuments
-  Listed Buildings
-  World Heritage Sites

### Visual and Landscape

-  Historic Parks, Gardens and Designed Landscapes

## Site Sensitivity - Slice A

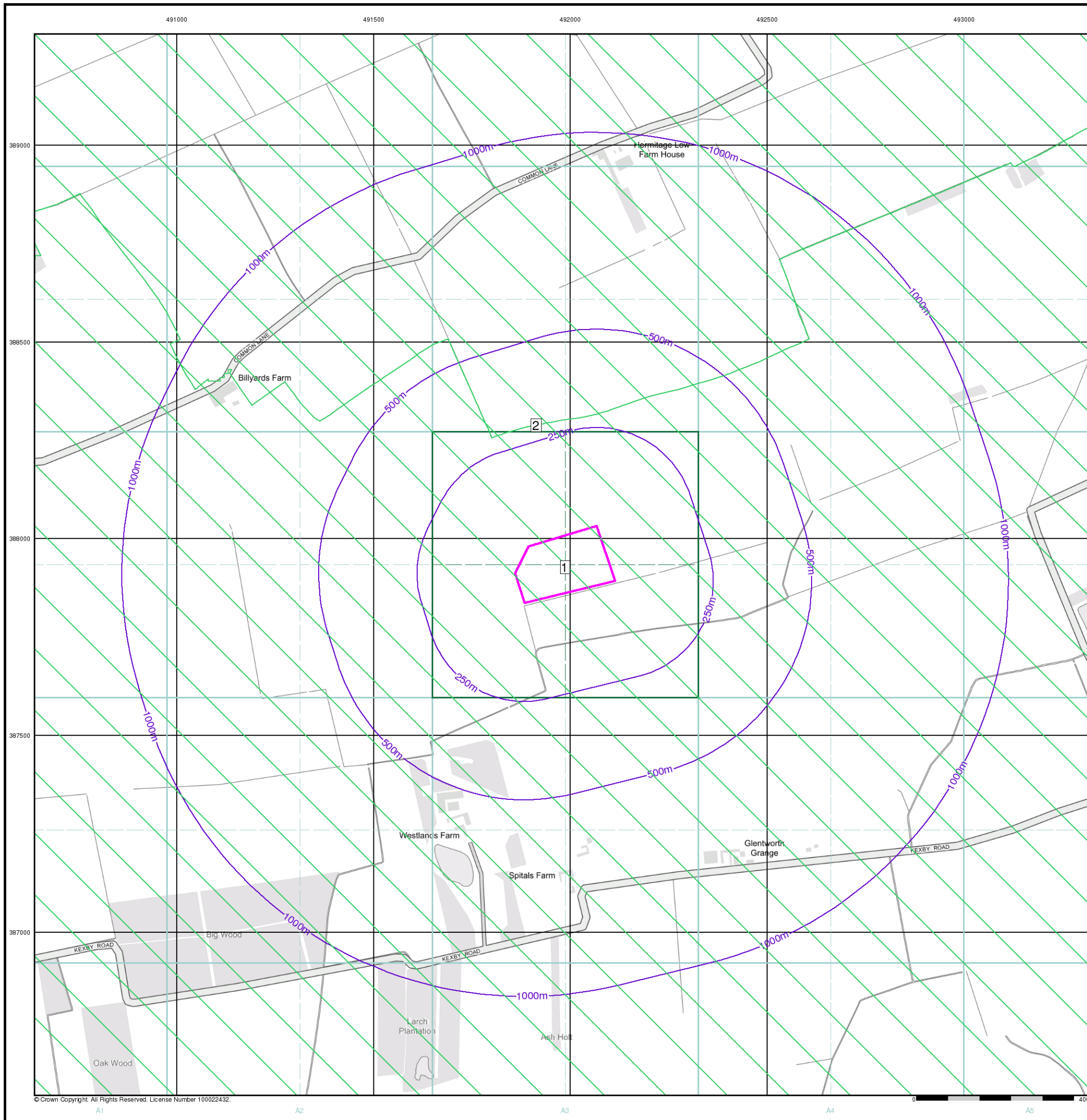


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000


## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN








## Water and Hydrology






### General

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

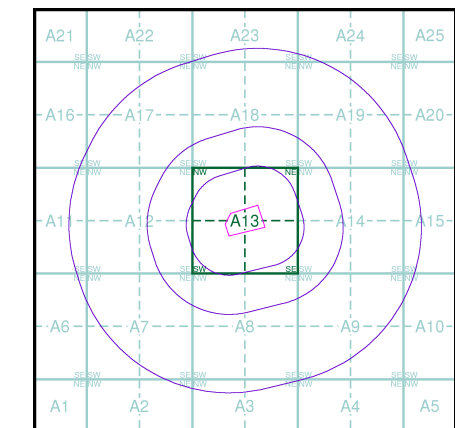
### Flood

-  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

### Contours (height in meters)

- Standard Contour  105  MLW Mean Low Water
- Master Contour  100  MHW Mean High Water
- Spot Height  167.8

## Flood - Slice A

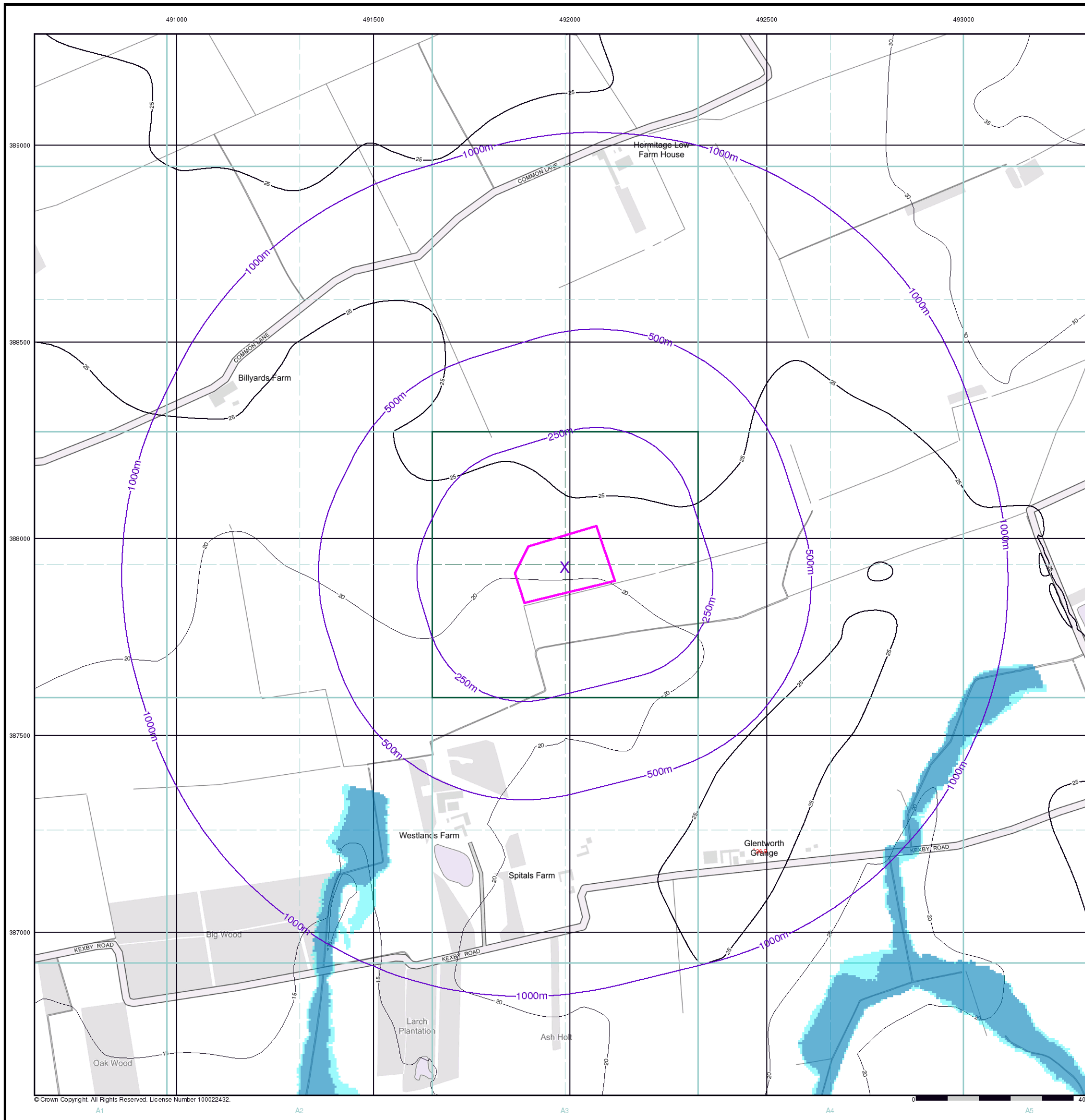


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



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## Water And Hydrology

### General

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

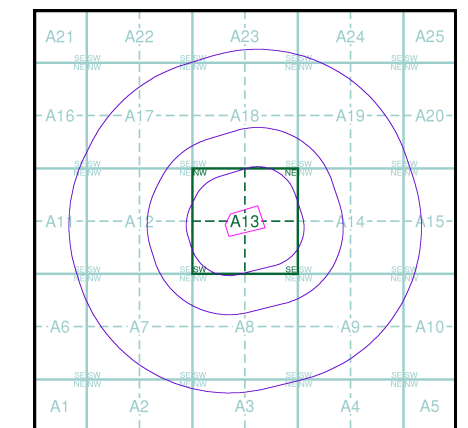
### OS Water Network Data

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

### Contours (height in meters)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- Mean Low Water
- Mean High Water

### OS Water Network - Slice A

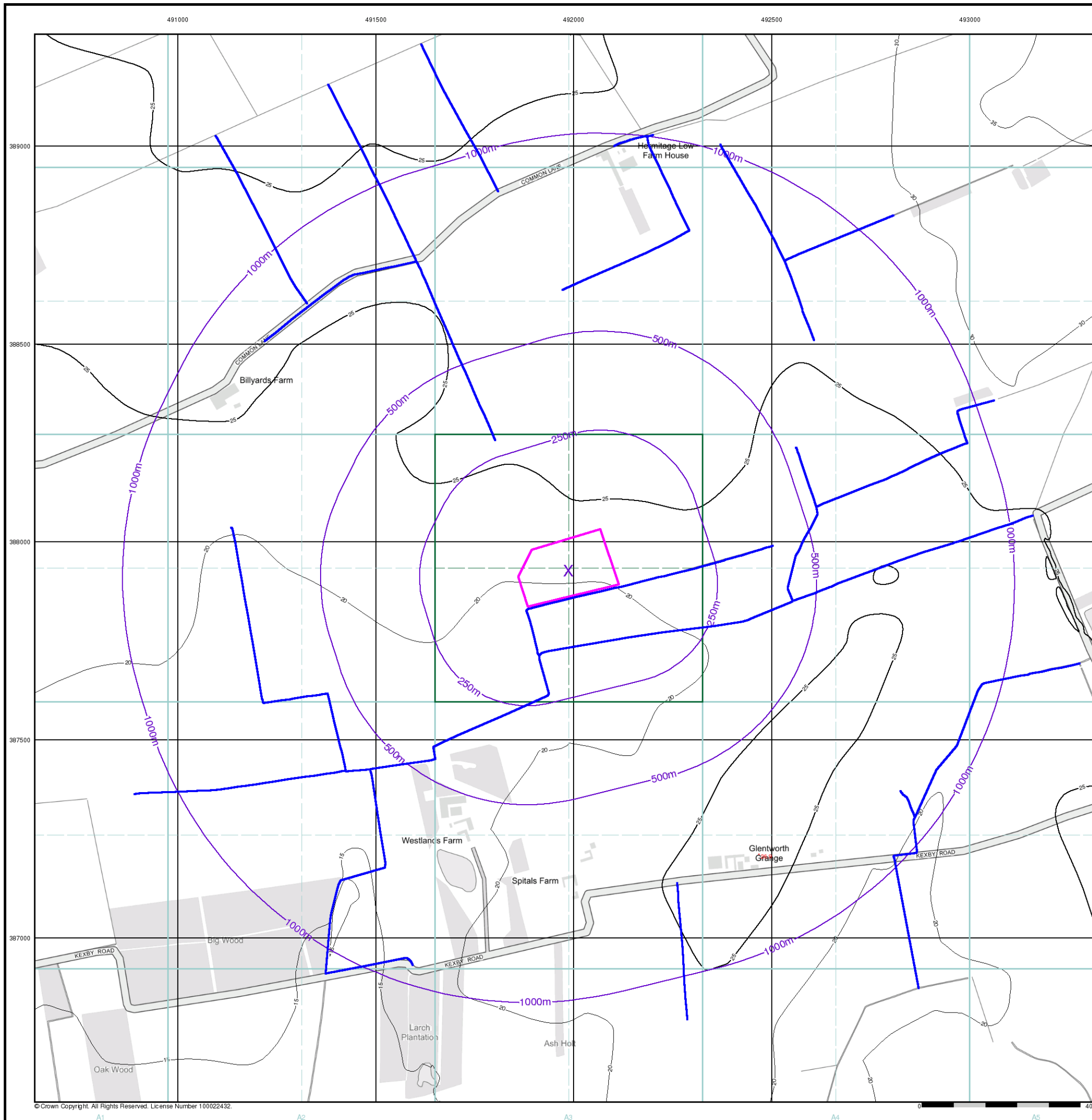


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN




## Water and Hydrology



### General

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

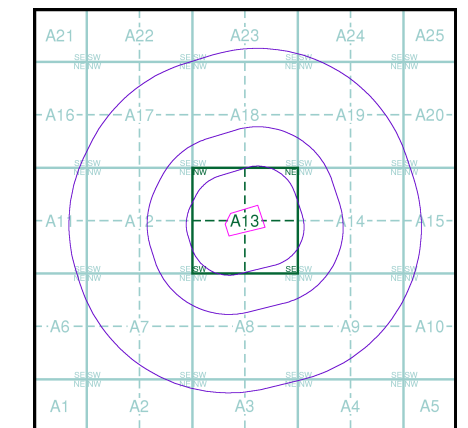
### Historic Flood

- |  |  |
|--|--|
|  Channel Capacity Exceeded (no raised defences) |  Obstruction/Blockage - Culvert         |
|  Channel Capacity Exceeded /Surface Water       |  Obstruction/Blockage - Debris Screen   |
|  Groundwater/High Water Table                   |  Operational Failure/ Breach of Defence |
|  Local Drainage/Surface Water                   |  Other                                  |
|  Mechanical Failure                             |  Overtopping of Defences                |
|  Obstruction/Blockage - Bridge                  |  Surface Water                          |
|  Obstruction/Blockage - Channel                 |  Unknown                                |
|  Historical Flood Liabilities                   |  |

### Contours (height in meters)

- Standard Contour  105  100  95
- Master Contour  105  100  95
- Spot Height  \*167.8
-  MLW - Mean Low Water
-  MHV - Mean High Water

### Historic Flood - Slice A

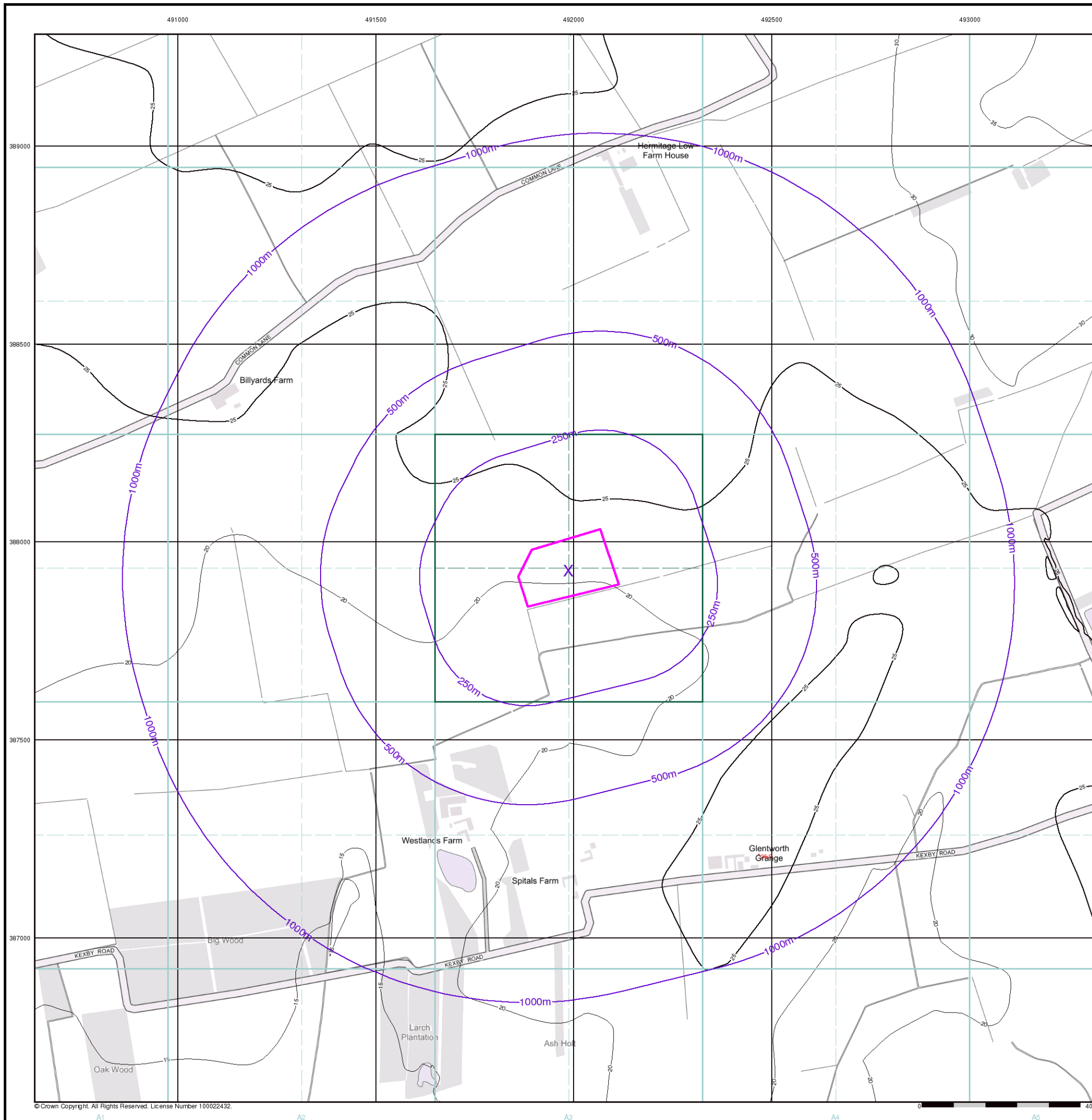


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
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 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



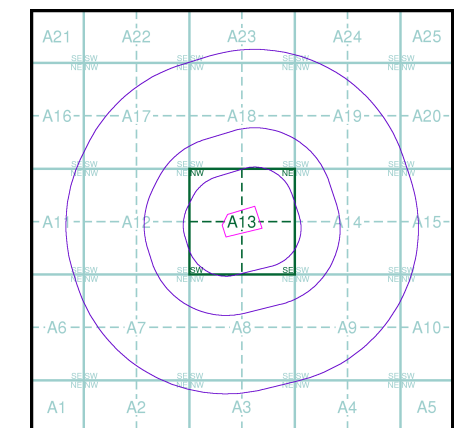
## Aerial Photo

### General

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

**Published Date(s):**  
2021

## Aerial Photo - Slice A

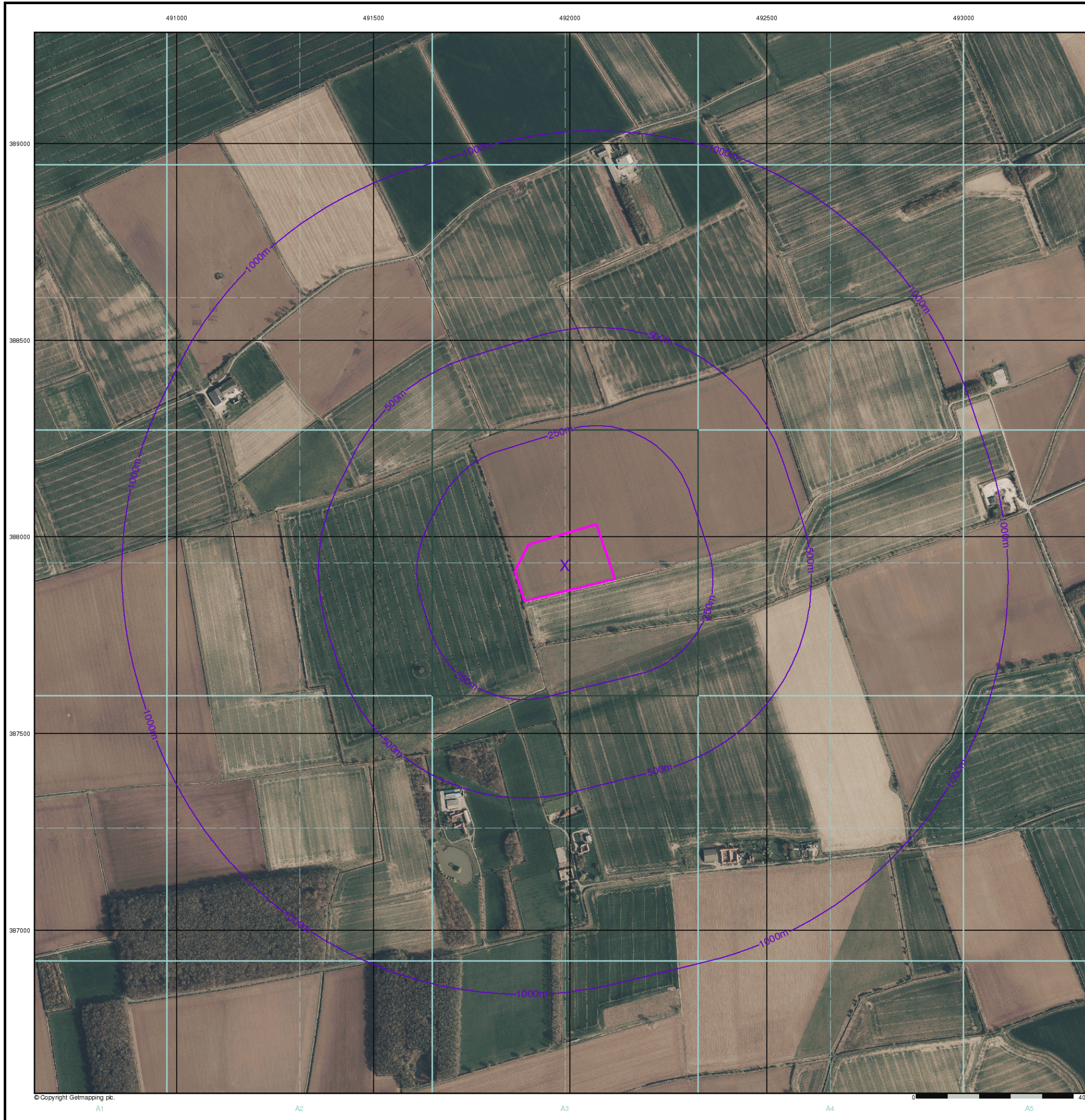


## Order Details

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Customer Ref: File 522  
National Grid Reference: 491990, 387930  
Slice: A  
Site Area (Ha): 3.16  
Search Buffer (m): 1000

## Site Details

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Gainsborough, Lincolnshire, DN21 5DN



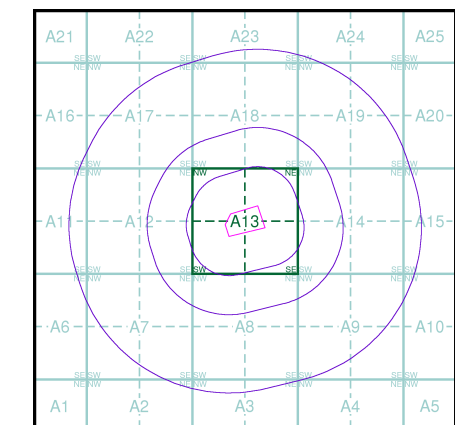


## Site Location

### General

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

## Site Location - Slice A

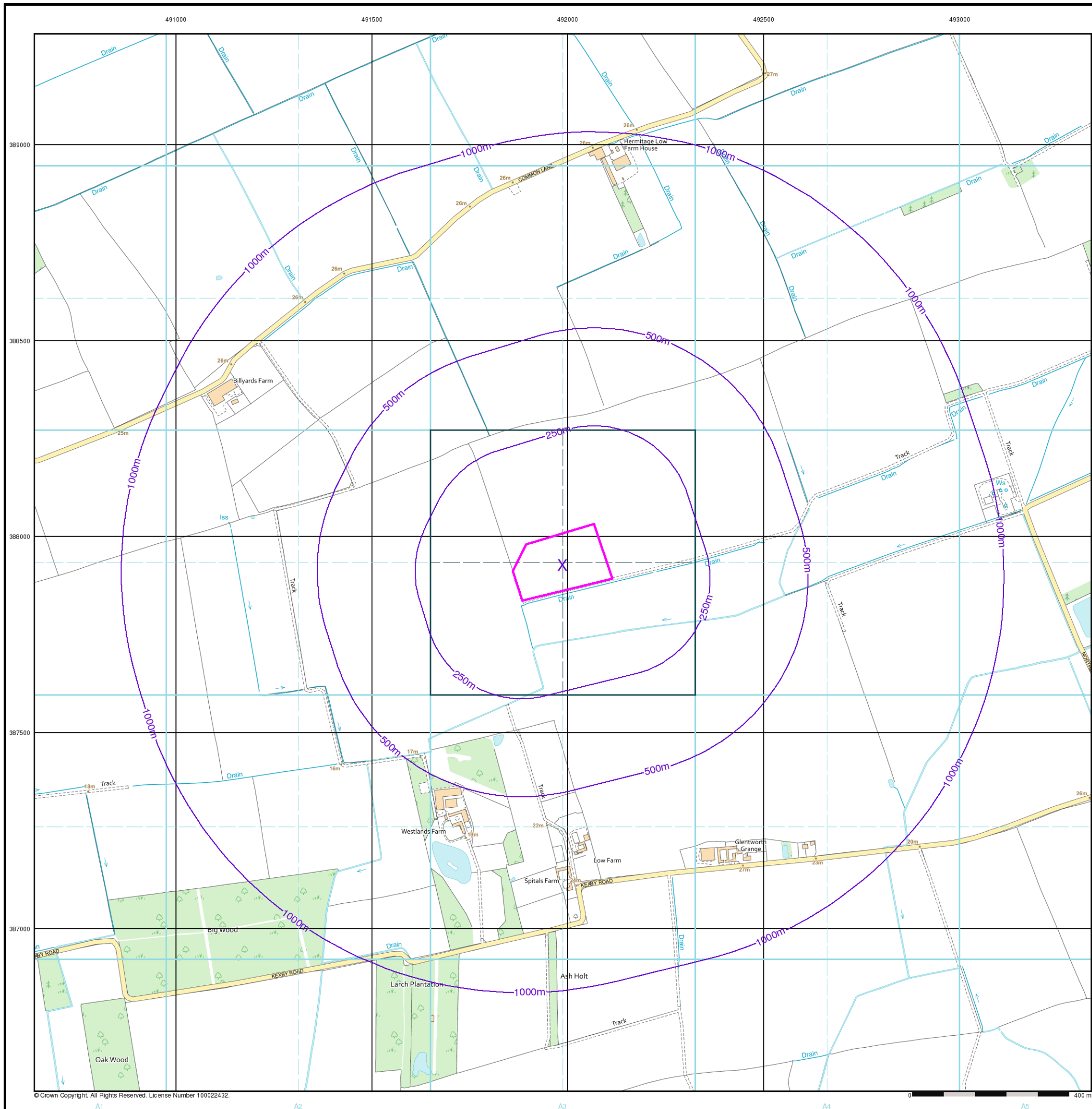


## Order Details

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## Site Details

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# OS VectorMap® Local

## Colour Raster version

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### COMMUNICATIONS (TRANSPORT)

Depicted roads are not necessarily rights of way

	Motorway
	Primary road
	Main road ('A' road)
	Secondary road ('B' road)
	Minor road
	Local street
	Private road with public access
	Pedestrianised street
	Multiple track railway
	Single track railway or siding
	Narrow gauge railway
	Road or rail tunnel







### SETTLEMENT

	Building		Important building
	Glasshouse		
	Overhead building line		

### VEGETATION

	Broad-leaved woodland		Coniferous woodland
	Mixed woodland		Orchard
	Shrub		Unimproved grass
	Heathland		Marsh
	Reeds		

### WATER FEATURES

	Water (surface or tidal)
	Water
	Mean high water
	Mean low water
	Direction of flow arrows
	Water point features (for example Wells, Springs)

### HEIGHT









Surface heights are in metres above mean sea level

57m Height

### LANDFORMS

	Ornament		
	Inland rock		
	Boulders		
	Shingle		
	Cliff		Sand
	Large slopes		Sand pit
	Standard slopes		
	Mud		
	Gravel pit		
	Refuse tip or slag heap		

### POINT & LINE FEATURES






	General line detail
	Overhead detail
	Telephone line
	Electricity transmission line
	Pylon
	Triangulation station
	Point features (for example Shafts, Posts)
	Site of antiquity

### COMMON ABBREVIATIONS


















CG.....	Cattle grid
Chy.....	Chimney
Coll.....	College
Ct.....	Court
El Sub Sta.....	Electricity sub station
FB.....	Footbridge
Fl Sk.....	Flare stack
Fn.....	Fountain
FS.....	Flagstaff
GP.....	Guide post
LC.....	Level crossing
Liby.....	Library
Meml.....	Memorial
MHW(s).....	Mean high water (springs)
MLW(s).....	Mean low water (springs)
Mon.....	Monument
MP, MS.....	Mile post or stone
NTL.....	Normal tidal water
P, Ps.....	Post(s) or pole(s)
PH.....	Public House
PO.....	Post office
Pol Sta.....	Police Station
PW.....	Place of worship
Sch.....	School
Spr.....	Spring
Sta.....	Station
Tk.....	Tank or track
W.....	Well

## Site Sensitivity



### General

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


### Ecology

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

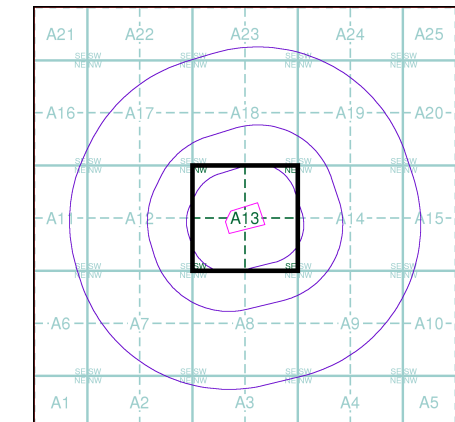
### Heritage

-  Historic Battlefields
-  Listed Buildings
-  Scheduled Monuments
-  World Heritage Sites

### Visual and Landscape

-  Historic Parks, Gardens and Designed Landscapes

## Site Sensitivity - Segment A13

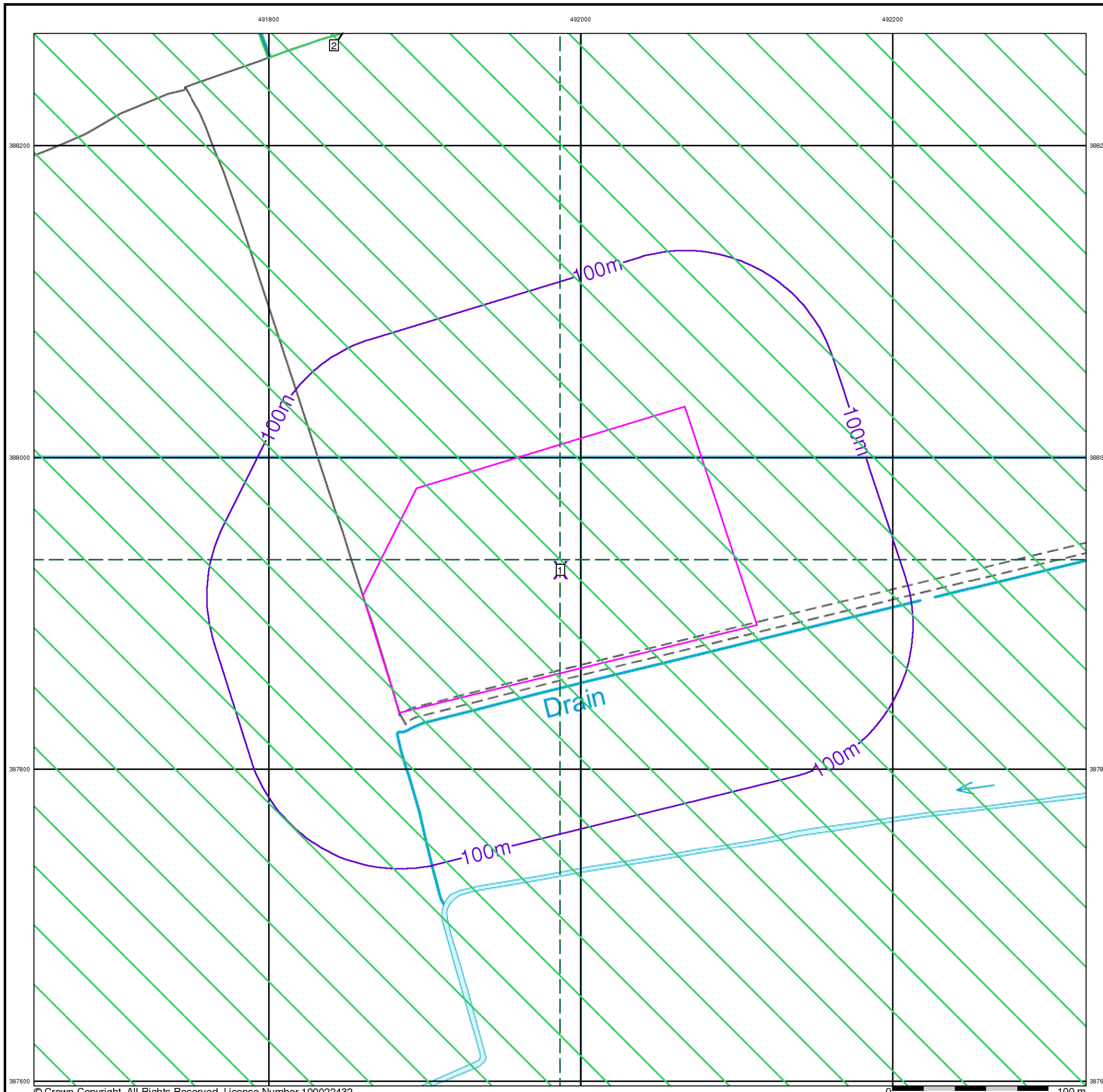


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



491800

492000

492200

388200

388200

388000

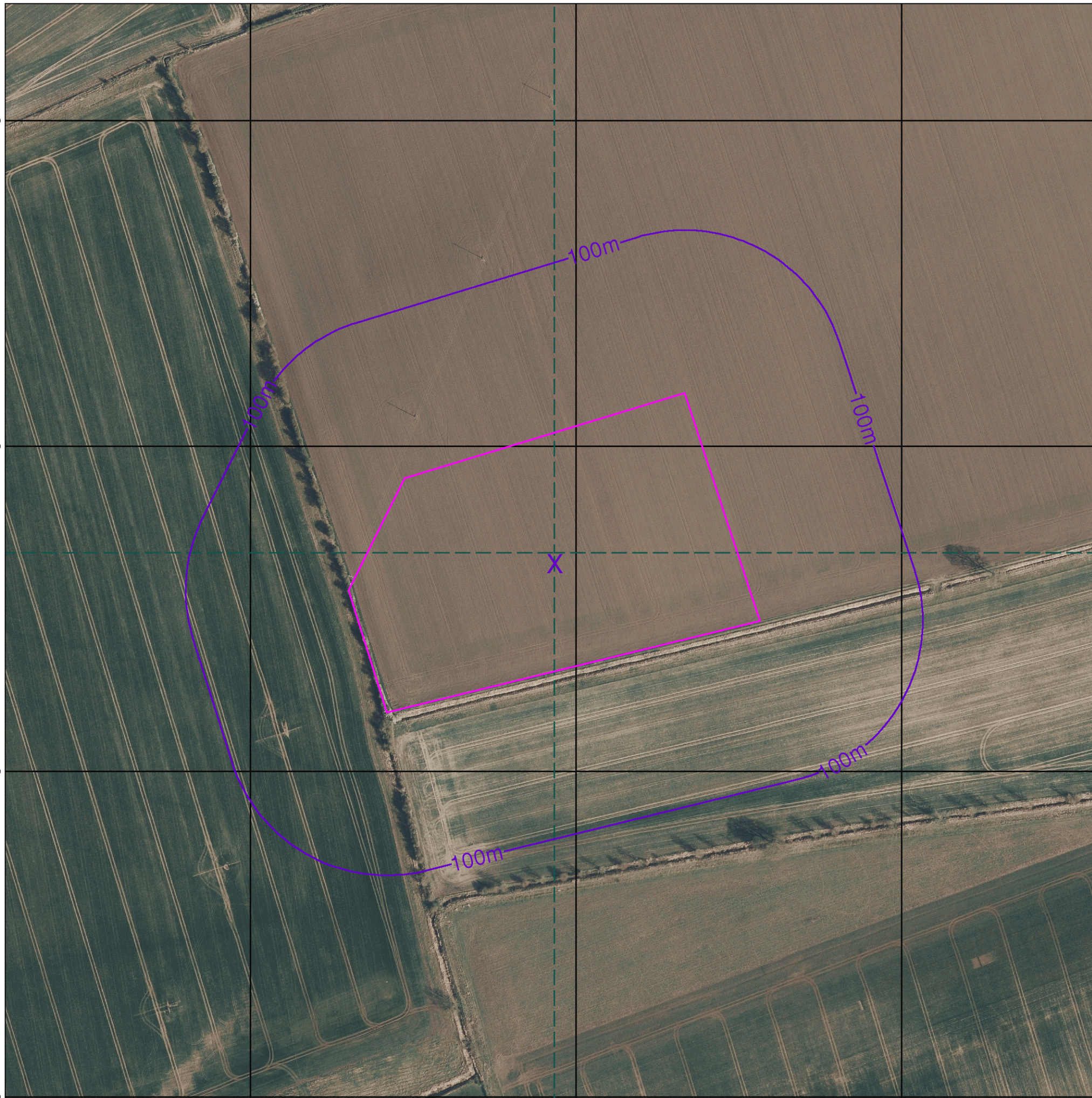
388000

387800

387800

387600

387600



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0 100 m

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LANDMARK INFORMATION GROUP®

## Aerial Photo

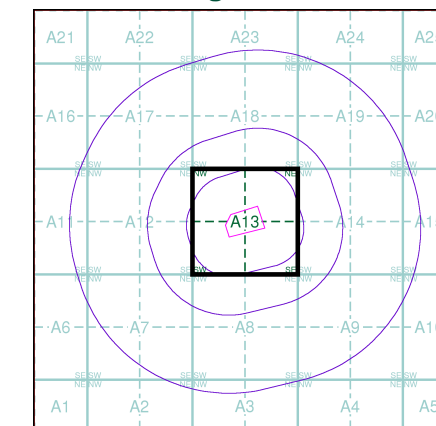
### General

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

### Published Date(s):

2021

## Aerial Photo - Segment A13



## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
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 Slice: A  
 Site Area (Ha): 3.16

## Site Details

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 Web: www.envirocheck.co.uk



## **APPENDIX 4 - HISTORICAL MAP REPORT**



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## Envirocheck<sup>®</sup> Report: Historical Data Report Datasheet

### Order Details:

**Order Number:**

300650352\_1\_1

**Customer Reference:**

File 522

**National Grid Reference:**

491990, 387930

**Slice:**

A

**Site Area (Ha):**

3.16

**Search Buffer (m):**

1000

### Site Details:

Glentworth West Wellsite  
Off Northlands Road  
Glentworth  
Gainsborough  
Lincolnshire  
DN21 5DN

### Client Details:

Mr J Foster  
Zetland Group Ltd  
The Innovation Centre  
Vienna Court  
Kirkleatham Business Park  
REDCAR  
North Yorkshire  
TS10 5SH

### Prepared For:

IGas Energy Production Limited  
Glentworth West Wellsite  
Off Northlands Road  
Glentworth  
Gainsborough  
DN21 5DN

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	-
Historical Map List	2
Useful Contacts and Further Information	3

### 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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### Report Version v53.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
<b>Historical Building Plans Information</b>					
Areas Cleared Due To Enemy Action					
Above Ground Fuel Tanks (100m)				n/a	n/a
Asbestos (100m)				n/a	n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a	n/a
Electricity Generation (100m)				n/a	n/a
Electricity Sub-Stations (100m)				n/a	n/a
Gas Industry (100m)				n/a	n/a
Gas Storage (100m)				n/a	n/a
Gas Use (100m)				n/a	n/a
Oil Industry (100m)				n/a	n/a
Oil Storage (100m)				n/a	n/a
Oil Use (100m)				n/a	n/a
Paint based Oils (100m)				n/a	n/a
Paraffin (100m)				n/a	n/a
Petrol and Diesel Industry (100m)				n/a	n/a
Petrol and Diesel Storage (100m)				n/a	n/a
Petrol and Diesel Use (100m)				n/a	n/a
Potential Fuel Gas (100m)				n/a	n/a
Potential Fuel Oil (100m)				n/a	n/a
Potential Fuel Use (100m)				n/a	n/a
Potential Petrol and Diesel (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Potentially Fuel-related Tanks (100m)				n/a	n/a
Underground Fuel Tanks (100m)				n/a	n/a
<b>Historical Land Use Information</b>					
Former Marshes					
Historical Flood Liabilities					
Potentially Contaminative Industrial Uses (Past Land Use)					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 1				1

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
<b>Historical Tanks and Energy Facilities</b>					
Electrical Sub Station Facilities (100m)				n/a	n/a
Electricity Industry Facilities (100m)				n/a	n/a
Gas Industry Facilities (100m)				n/a	n/a
Gas Monitoring Facilities (100m)				n/a	n/a
Miscellaneous Power Facilities (100m)				n/a	n/a
Oil Industry Facilities (100m)				n/a	n/a
Petroleum Storage Facilities (100m)				n/a	n/a
Potential Tanks (100m)				n/a	n/a
Tanks (100m)				n/a	n/a

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Potentially Infilled Land (Water)</b></p> <p>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)</p> <p>Date of Mapping: 1956</p>	A9NE (SE)	956	1	492870 387309

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

<b>1:10,560</b>	<b>Mapsheets</b>	<b>Published Date</b>
Lincolnshire	043_SE	1891
Lincolnshire	044_SW	1891
Lincolnshire	051_NE	1891
Lincolnshire	052_NW	1891
Lincolnshire	043_SE	1907
Lincolnshire	044_SW	1907
Lincolnshire	051_NE	1907
Lincolnshire	052_NW	1907
Lincolnshire	043_SE	1947
Lincolnshire	044_SW	1947
Lincolnshire	051_NE	1947
Lincolnshire	052_NW	1947
Ordnance Survey Plan	SK98NW	1956
<b>1:10,000</b>	<b>Mapsheets</b>	<b>Published Date</b>
Ordnance Survey Plan	SK98NW	1979

The following mapping has been analysed for Historical Tanks and Energy Facilities:

<b>1:2,500</b>	<b>Mapsheets</b>	<b>Published Date</b>
Ordnance Survey Plan	SK9187	1974
Ordnance Survey Plan	SK9188	1974
Ordnance Survey Plan	SK9287	1974
Ordnance Survey Plan	SK9288	1974

Contact	Name and Address	Contact Details
1	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: <a href="mailto:helpdesk@landmark.co.uk">helpdesk@landmark.co.uk</a> Website: <a href="http://www.landmark.co.uk">www.landmark.co.uk</a>

### Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

### Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

### Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.

## General

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

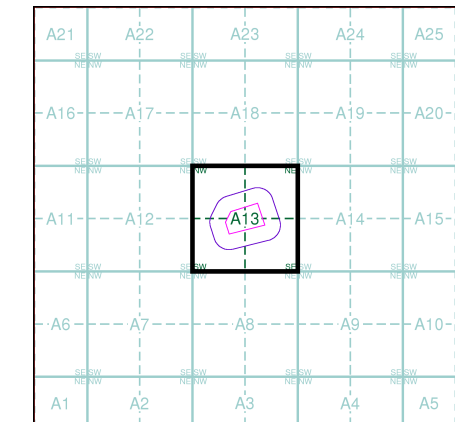
## Historical Building Plans

- Area Cleared due to Enemy Action
- ▲ Asbestos
- ▲ Above Ground Fuel Tanks
- ▲ Benzene/Benzole/Naphtha, Naphthalene/Kerosene
- ▲ Electricity Generation
- ▲ Electricity Sub-Stations
- ▲ Gas Industry
- ▲ Gas Storage
- ▲ Gas Use
- ▲ Oil Industry
- ▲ Oil Storage
- ▲ Oil Use
- ▲ Paint based Oils
- ▲ Paraffin
- ▲ Petrol and Diesel Industry
- ▲ Petrol and Diesel Storage
- ▲ Petrol and Diesel Use
- ▲ Potential Fuel Gas
- ▲ Potential Fuel Oil
- ▲ Potential Fuel Use
- ▲ Potential Petrol and Diesel
- ▲ Potential Tanks
- ▲ Potentially Fuel-related Tanks
- ▲ Underground Fuel Tanks

## Historical Tanks and Energy Facilities

- Electrical Sub Station Facility
- Electricity Industry Facility
- Gas Industry Facility
- Gas Monitoring Facility
- Miscellaneous Power Facility
- Oil Industry Facility
- Petroleum Storage Facility
- Potential Tank
- Tank

## Historical Data Report - Segment A13

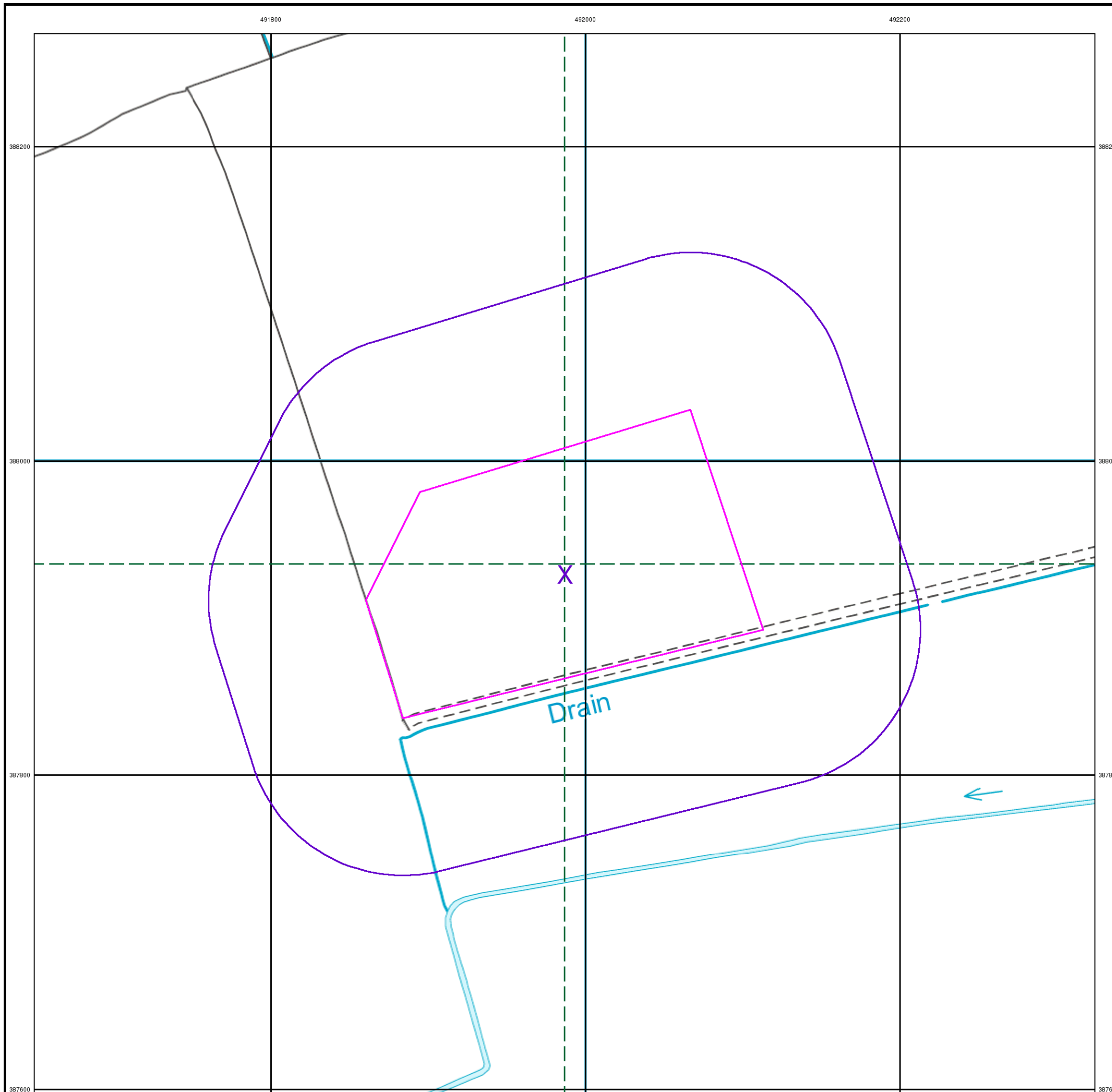


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Plot Buffer (m): 100

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



## General

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

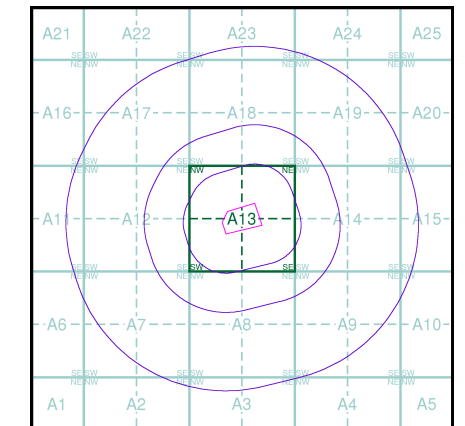
## Historical Building Plans

- Area Cleared due to Enemy Action

## Historical Land Use

- ✕ Former Marsh
- Historical Flood Liability
- + Historical Flood Liability (Location)
- Potentially Contaminative Industrial Use (Past Land Use)
- Potentially Contaminative Industrial Use (Past Land Use) (Linear)
- Potentially Contaminative Industrial Use (Past Land Use) (Location)
- Potentially Infilled Land (Non-Water)
- Potentially Infilled Land (Non-Water) (Linear)
- Potentially Infilled Land (Non-Water) (Location)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water) (Linear)
- Potentially Infilled Land (Water) (Location)

## Historical Data Report - Slice Map A

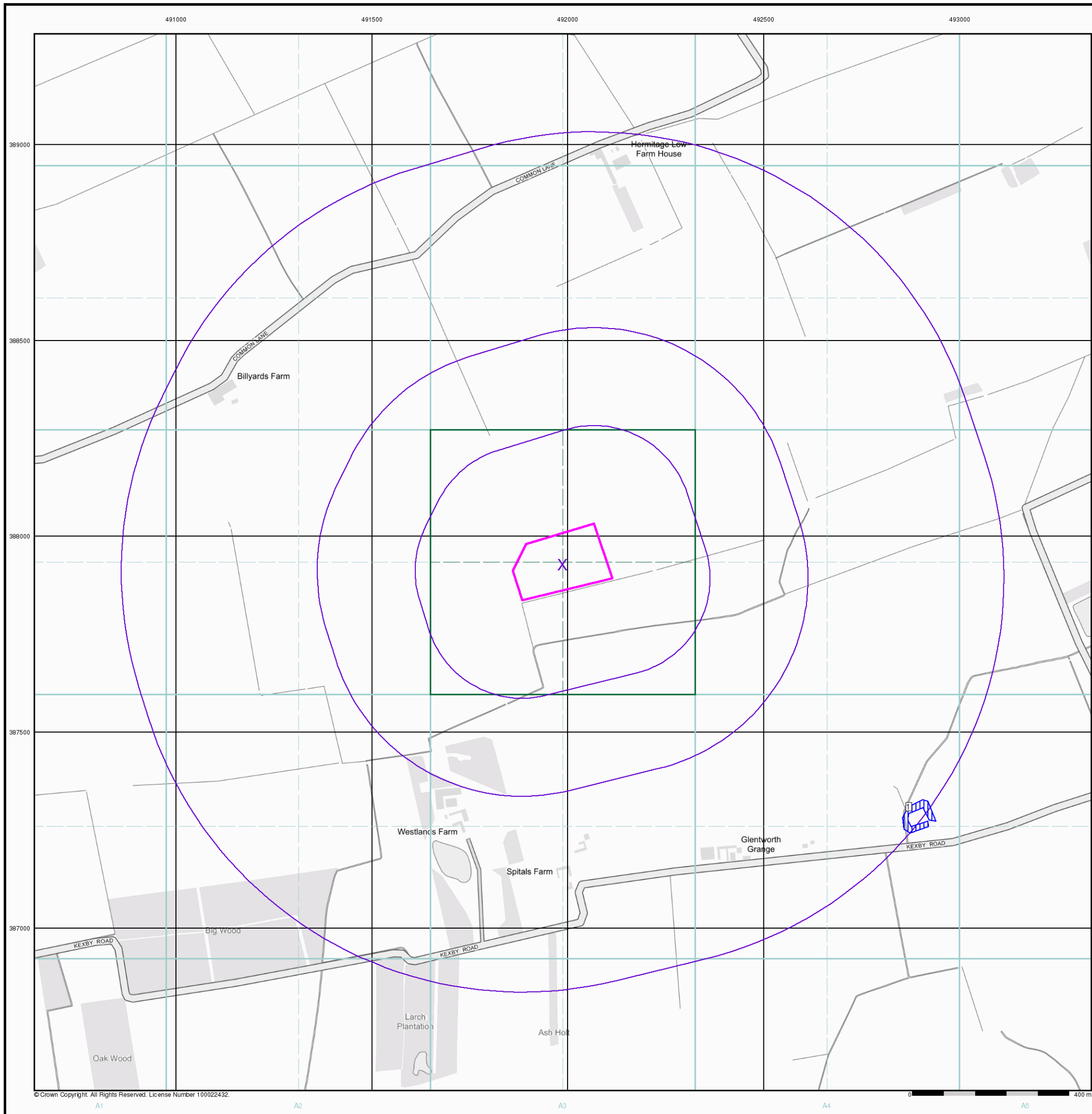


## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



# Historical Mapping Legends

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

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

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

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

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

**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Triangulation Station**   **Antiquity (site of)**  
**Electricity Transmission Line**   **Electricity Pylon**  
**B.M. 231.60m** Bench Mark   **Buildings with Building Seed**  
**Roofed Building**   **Glazed Roof Building**  
**Civil parish/community boundary**  
**District boundary**  
**County boundary**  
**Boundary post/stone**  
**Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**  
**Bks** Barracks   **P** Pillar, Pole or Post  
**Bty** Battery   **PO** Post Office  
**Cemy** Cemetery   **PC** Public Convenience  
**Chy** Chimney   **Pp** Pump  
**Cis** Cistern   **Ppg Sta** Pumping Station  
**Dismtd Rly** Dismantled Railway   **PW** Place of Worship  
**EI Gen Sta** Electricity Generating Station   **Sewage Ppg Sta** Sewage Pumping Station  
**EI P** Electricity Pole, Pillar   **SB, S Br** Signal Box or Bridge  
**EI Sub Sta** Electricity Sub Station   **SP, SL** Signal Post or Light  
**FB** Filter Bed   **Spr** Spring  
**Fn / D Fn** Fountain / Drinking Ftn.   **Tk** Tank or Track  
**Gas Gov** Gas Valve Compound   **Tr** Trough  
**GVC** Gas Governor   **Wd Pp** Wind Pump  
**GP** Guide Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MH** Manhole   **Wks** Works (building or area)  
**MP, MS** Mile Post or Mile Stone   **W** Well

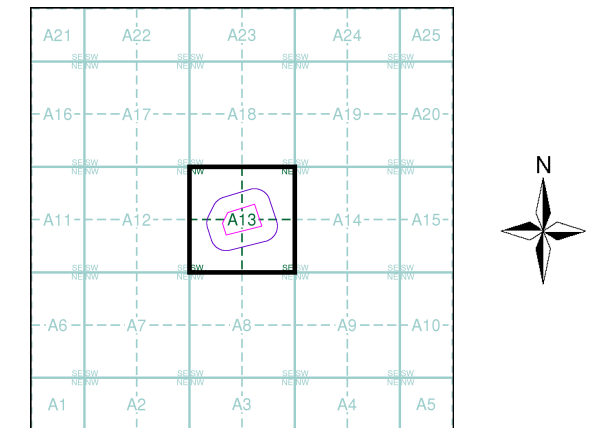
# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1886	2
Lincolnshire	1:2,500	1906	3
Ordnance Survey Plan	1:2,500	1974	4
Large-Scale National Grid Data	1:2,500	1994	5

## Historical Map - Segment A13



## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 100

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth,  
 Gainsborough, Lincolnshire, DN21 5DN

**Landmark**  
 INFORMATION GROUP

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

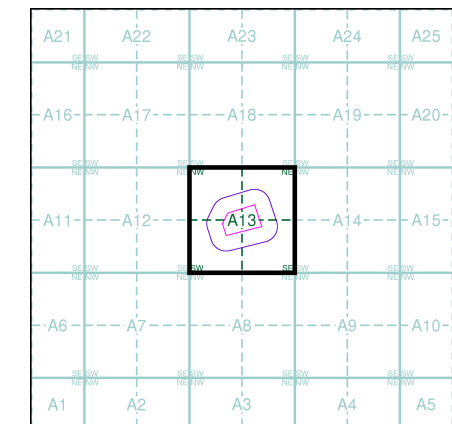


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

043_12 1886 1:2,500	044_09 1886 1:2,500
043_16 1886 1:2,500	044_13 1886 1:2,500

### Historical Map - Segment A13

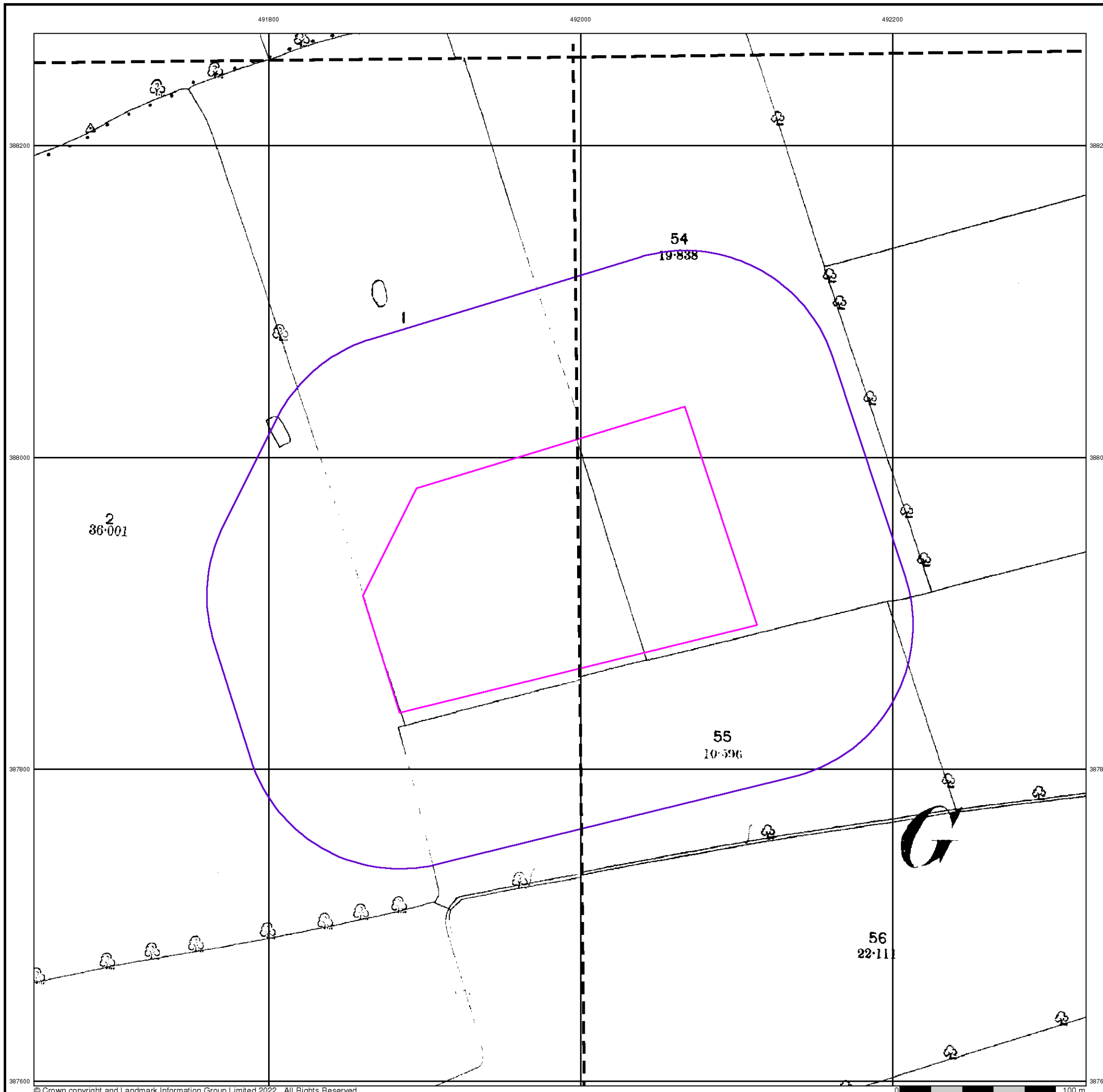


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 100

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



## Lincolnshire

Published 1906

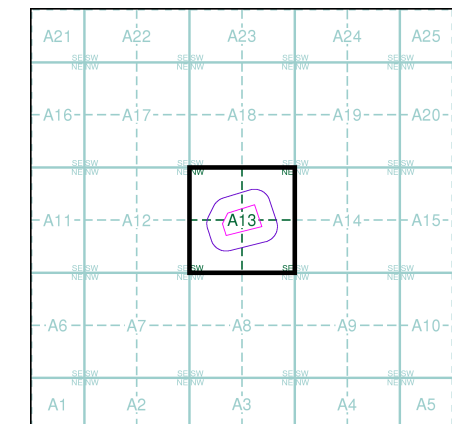
Source map scale - 1:2,500

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)

043_12 1906 1:2,500	044_09 1906 1:2,500
043_16 1906 1:2,500	044_13 1906 1:2,500

### Historical Map - Segment A13

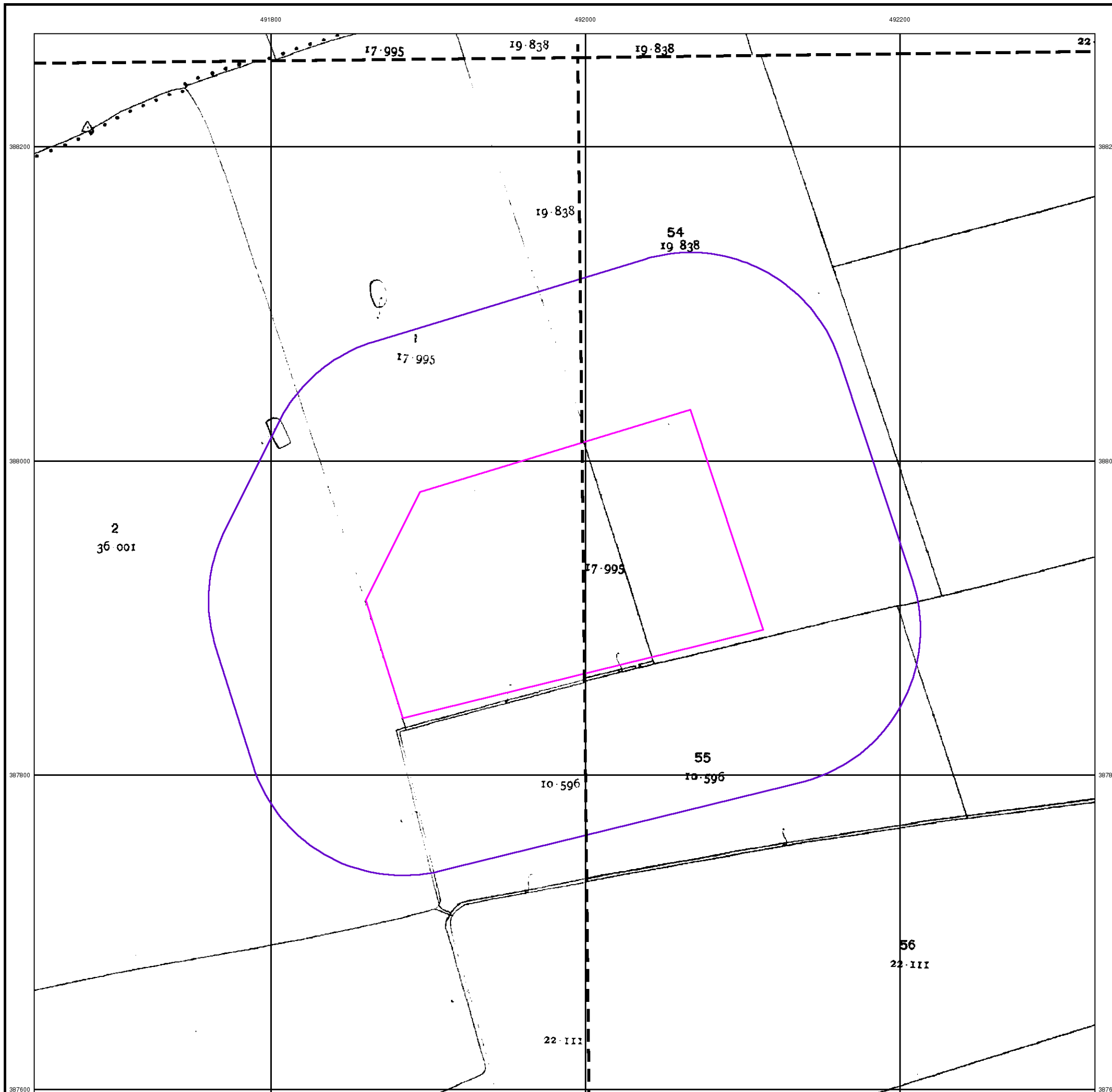


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 100

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



## Ordnance Survey Plan

Published 1974

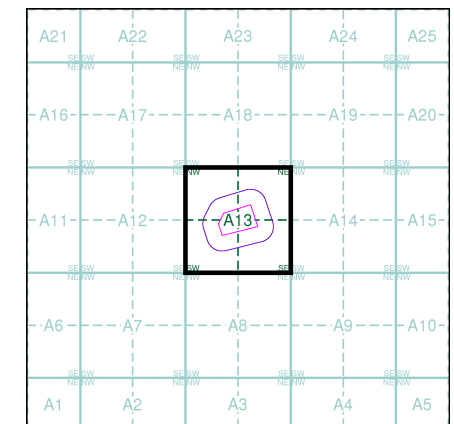
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

SK9188 1974 1:2,500	SK9288 1974 1:2,500
SK9187 1974 1:2,500	SK9287 1974 1:2,500

### Historical Map - Segment A13

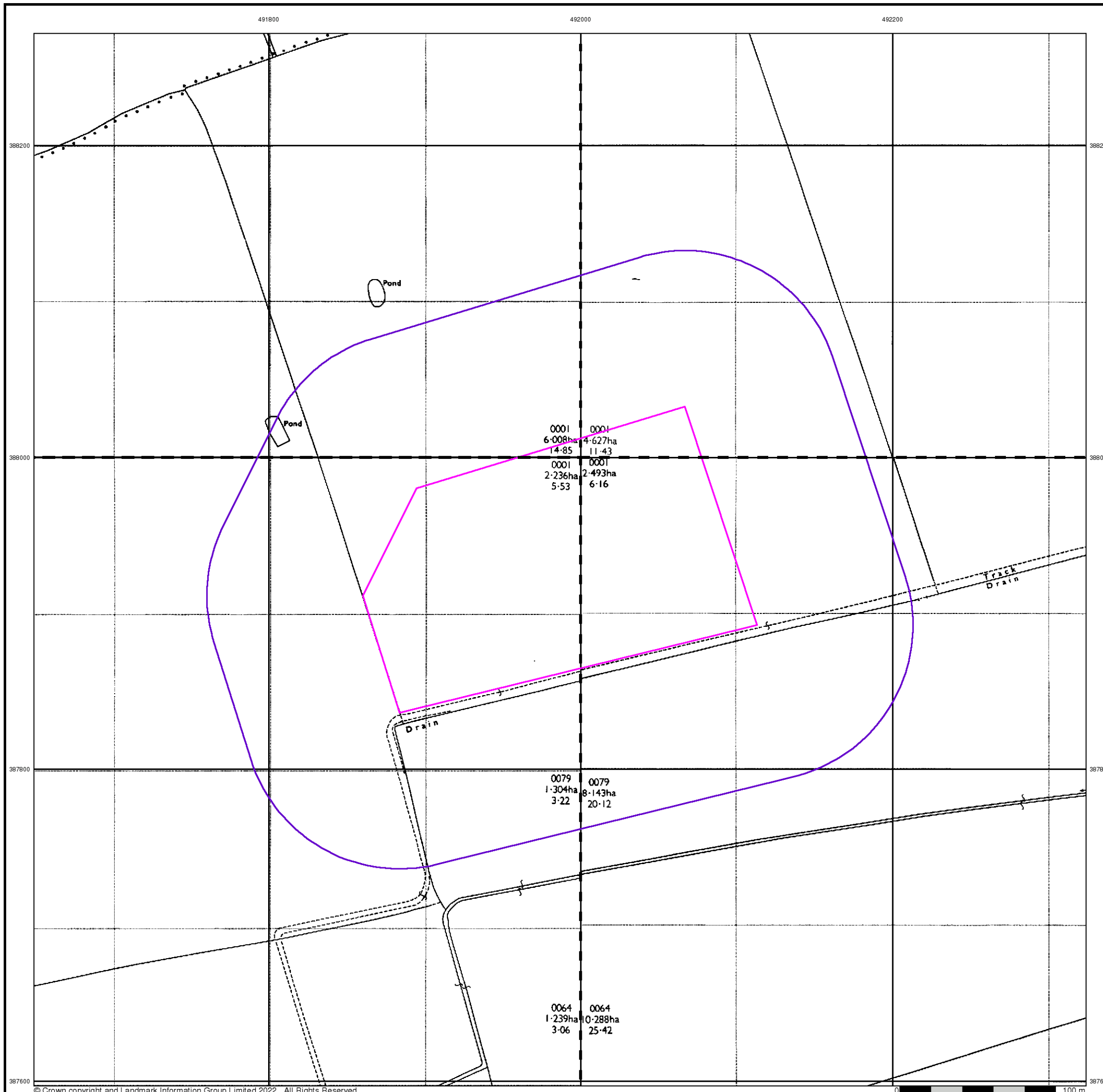


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 100

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



## Large-Scale National Grid Data

Published 1994

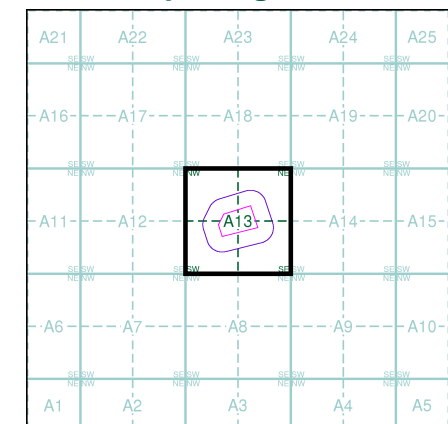
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

SK9188 1994 1:2,500	SK9288 1994 1:2,500
SK9187 1994 1:2,500	SK9287 1994 1:2,500

### Historical Map - Segment A13

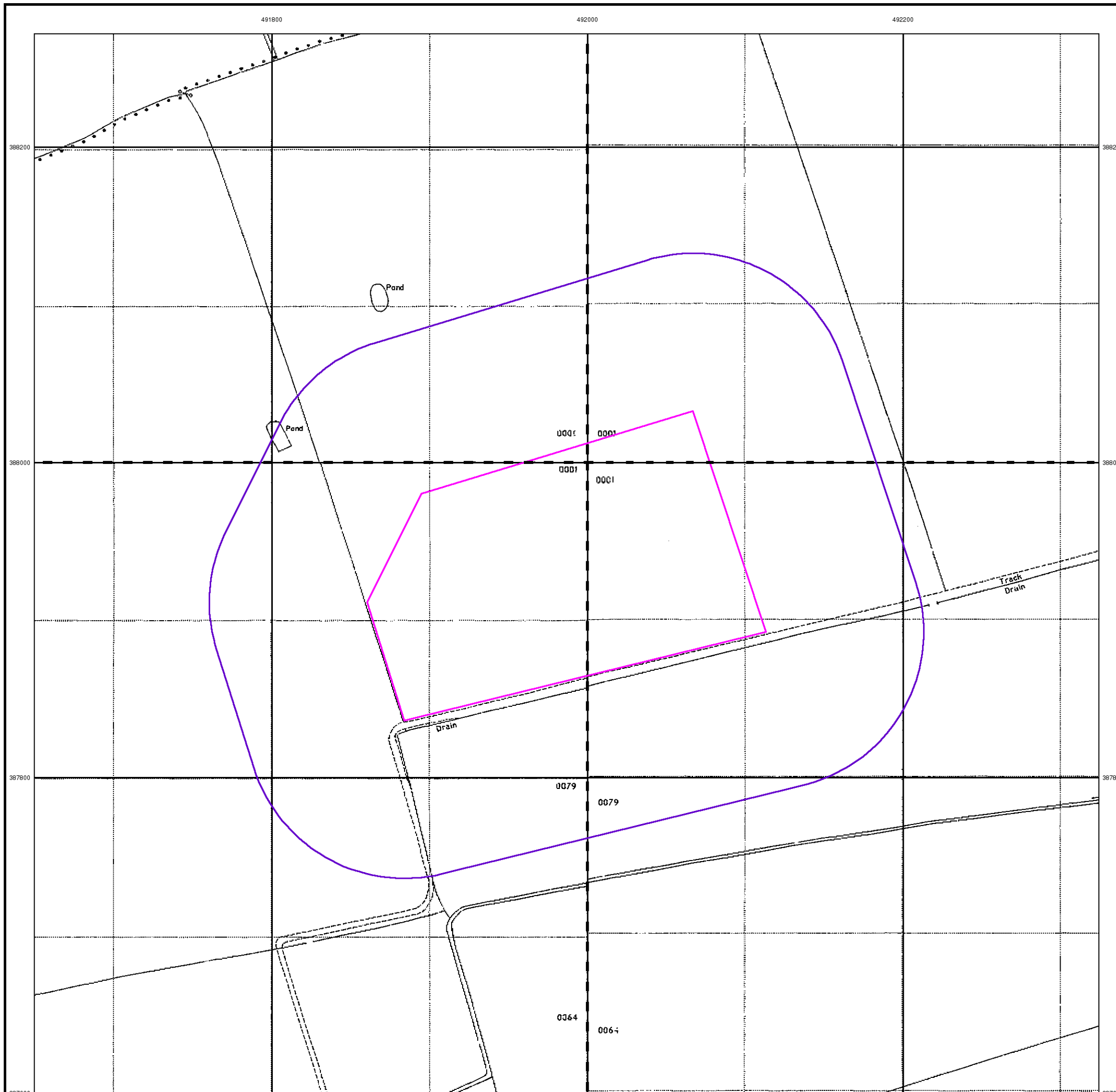


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 100

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



# 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		
	<b>-285</b> Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

## Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Heath
	Rough Grassland		Marsh
	Reeds		Saltings
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency 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)
	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

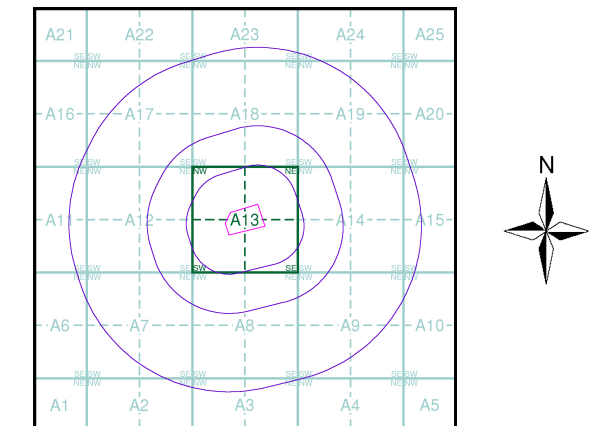
# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1885 - 1886	2
Lincolnshire	1:10,560	1907	3
Lincolnshire	1:10,560	1907	4
Lincolnshire	1:10,560	1947	5
Ordnance Survey Plan	1:10,000	1956	6
Ordnance Survey Plan	1:10,000	1979	7
10K Raster Mapping	1:10,000	2000	8
Street View	Variable		9

## Historical Map - Slice A



## Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

## Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

**Landmark**  
 INFORMATION GROUP

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

## Lincolnshire

Published 1885 - 1886

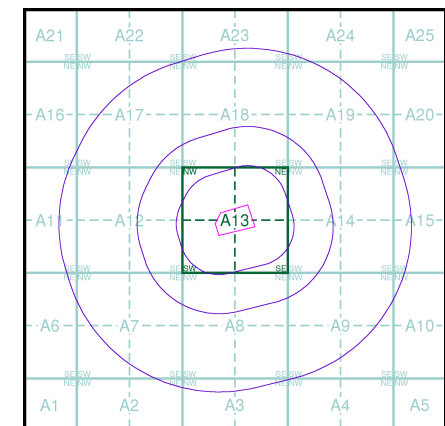
Source map scale - 1:10,560

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)

043SE 1885 1:10,560	044SW 1885 1:10,560
051NE 1885 1:10,560	052NW 1886 1:10,560

### Historical Map - Slice A

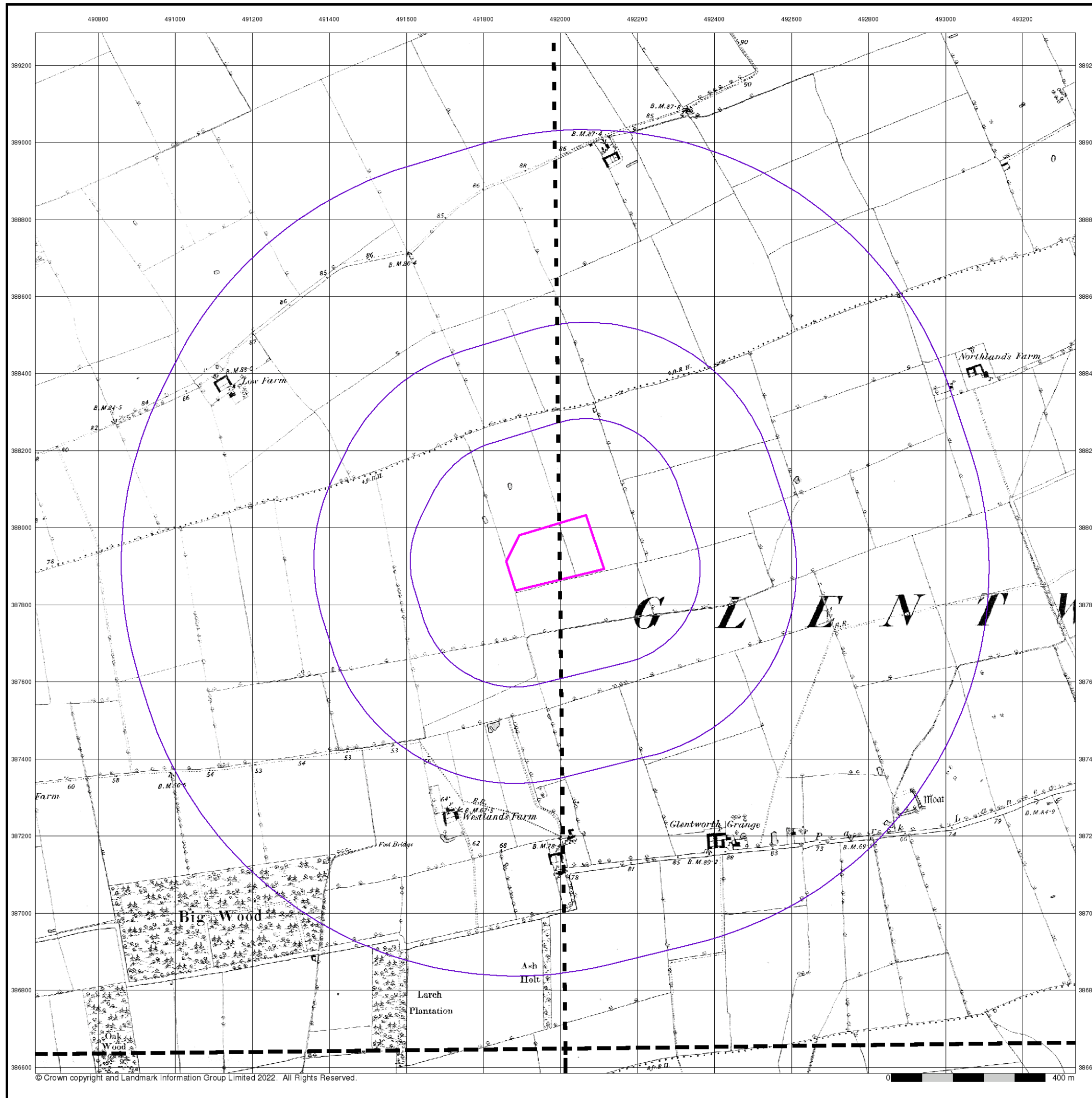


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



## Lincolnshire

Published 1907

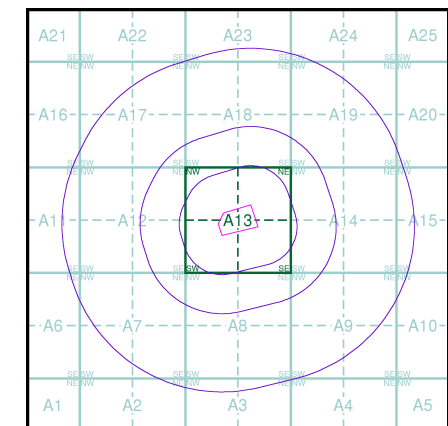
Source map scale - 1:10,560

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)

043SE 1907 1:10,560	044SW 1907 1:10,560
051NE 1907 1:10,560	052NW 1907 1:10,560

### Historical Map - Slice A

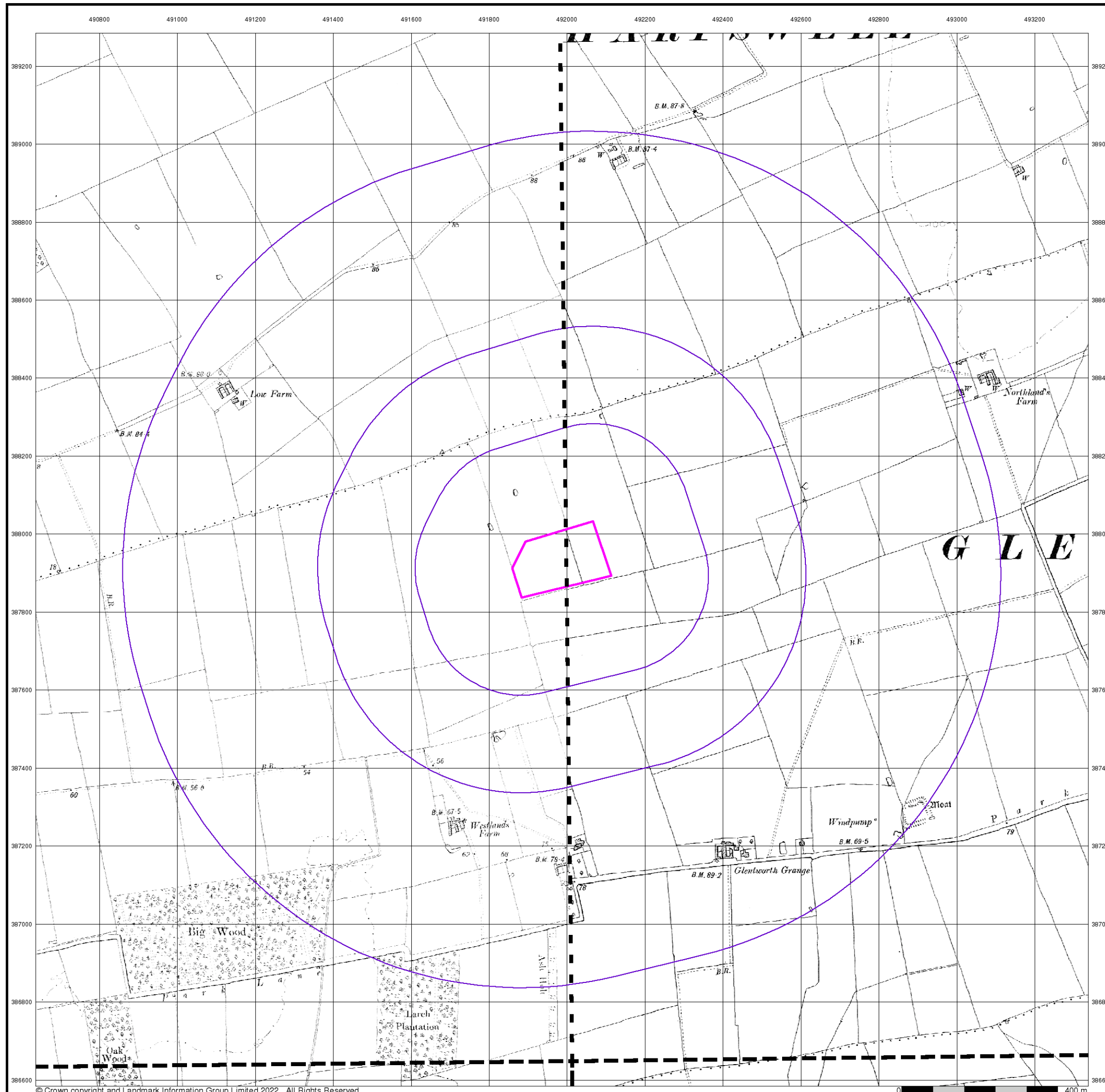


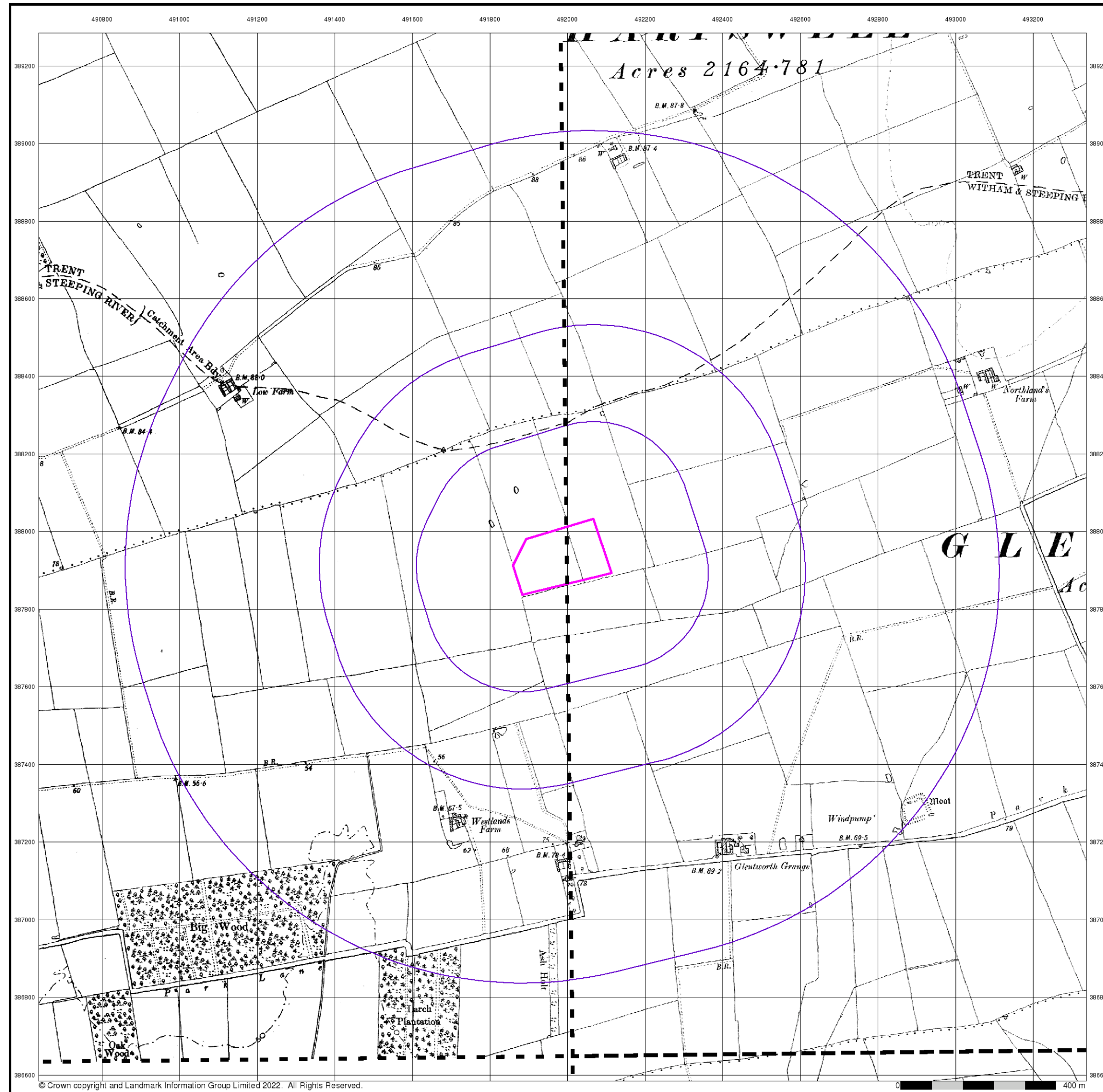
### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



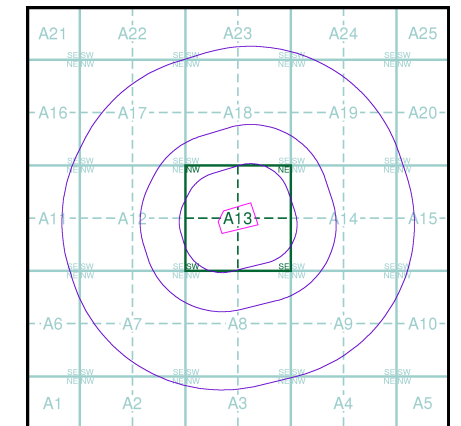


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

043SE 1907 1:10,560	044SW 1907 1:10,560
	052NW 1907 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
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 Site Area (Ha): 3.16  
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### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

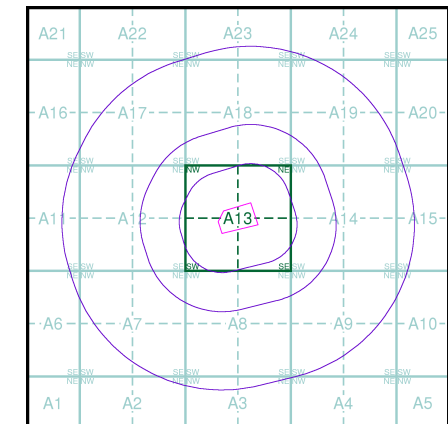


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

043SE 1947 1:10,560	044SW 1947 1:10,560
051NE 1947 1:10,560	052NW 1947 1:10,560

### Historical Map - Slice A

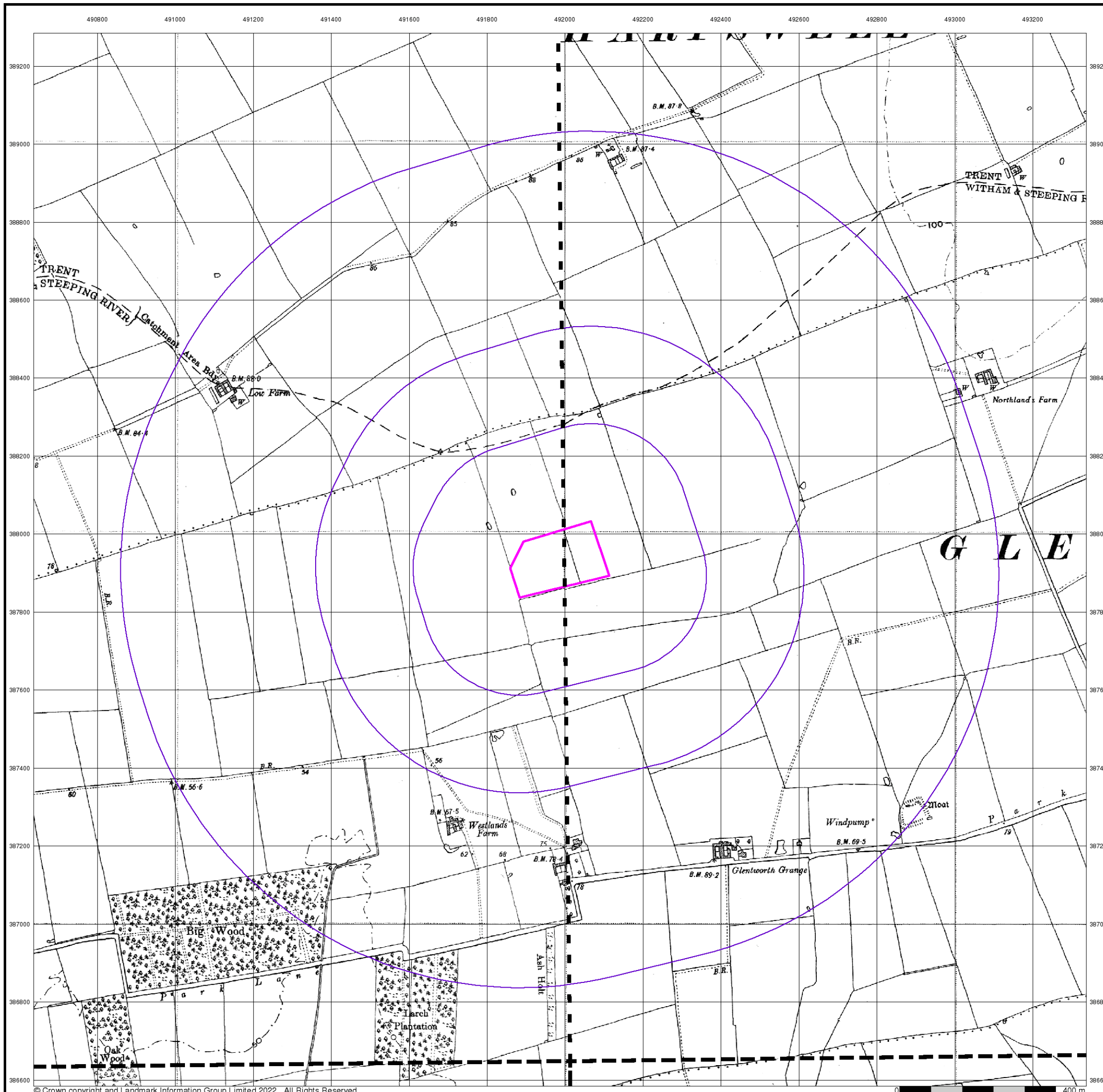


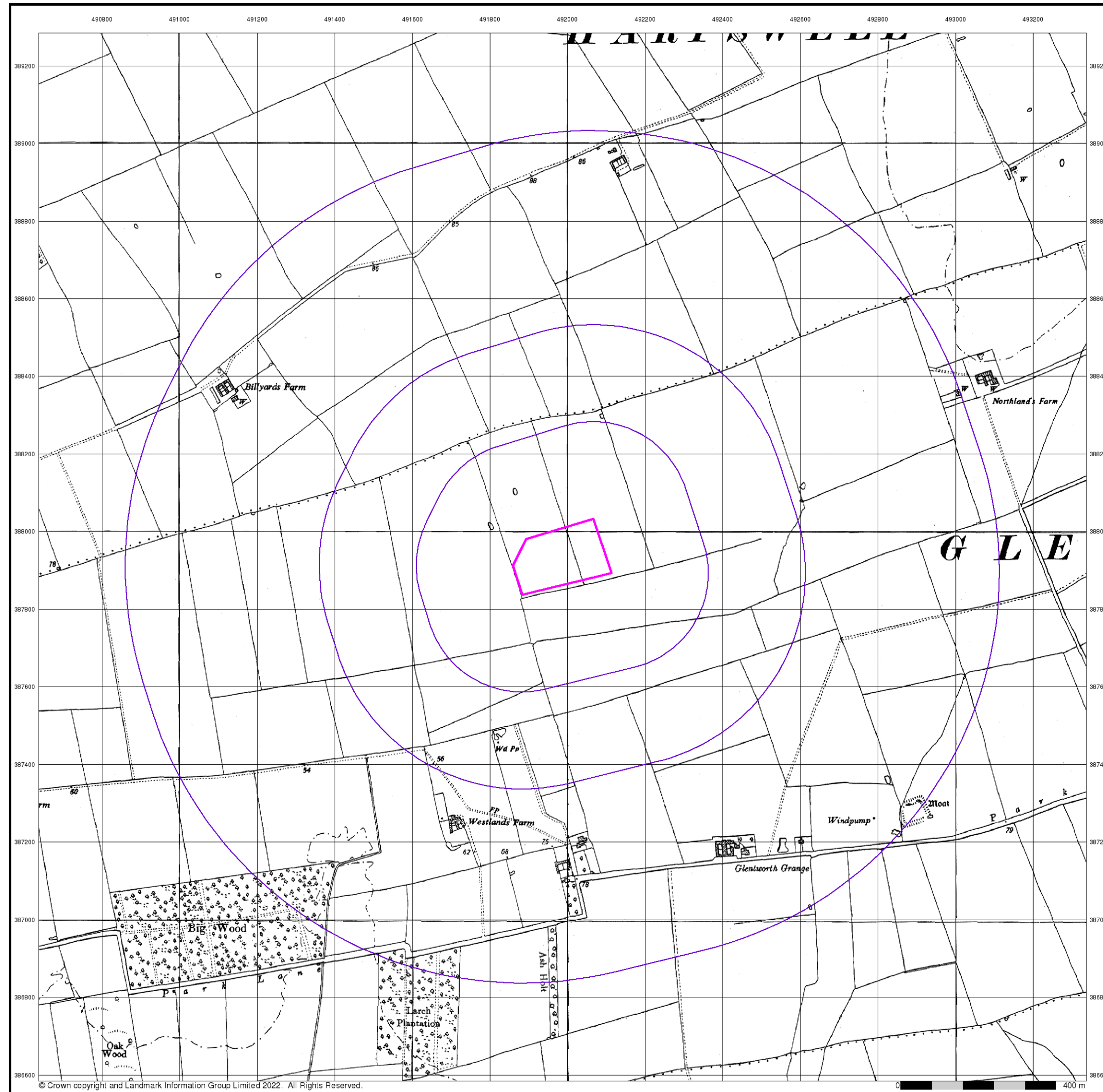
### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN





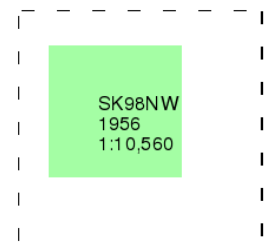
## Ordnance Survey Plan

Published 1956

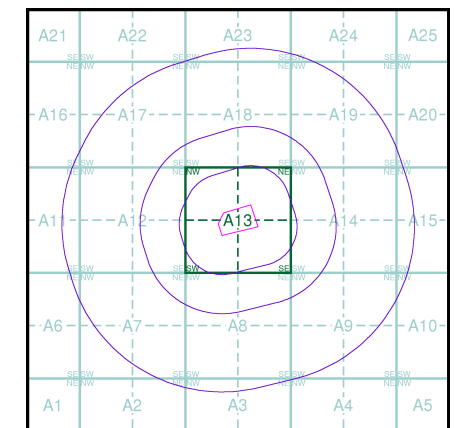
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A

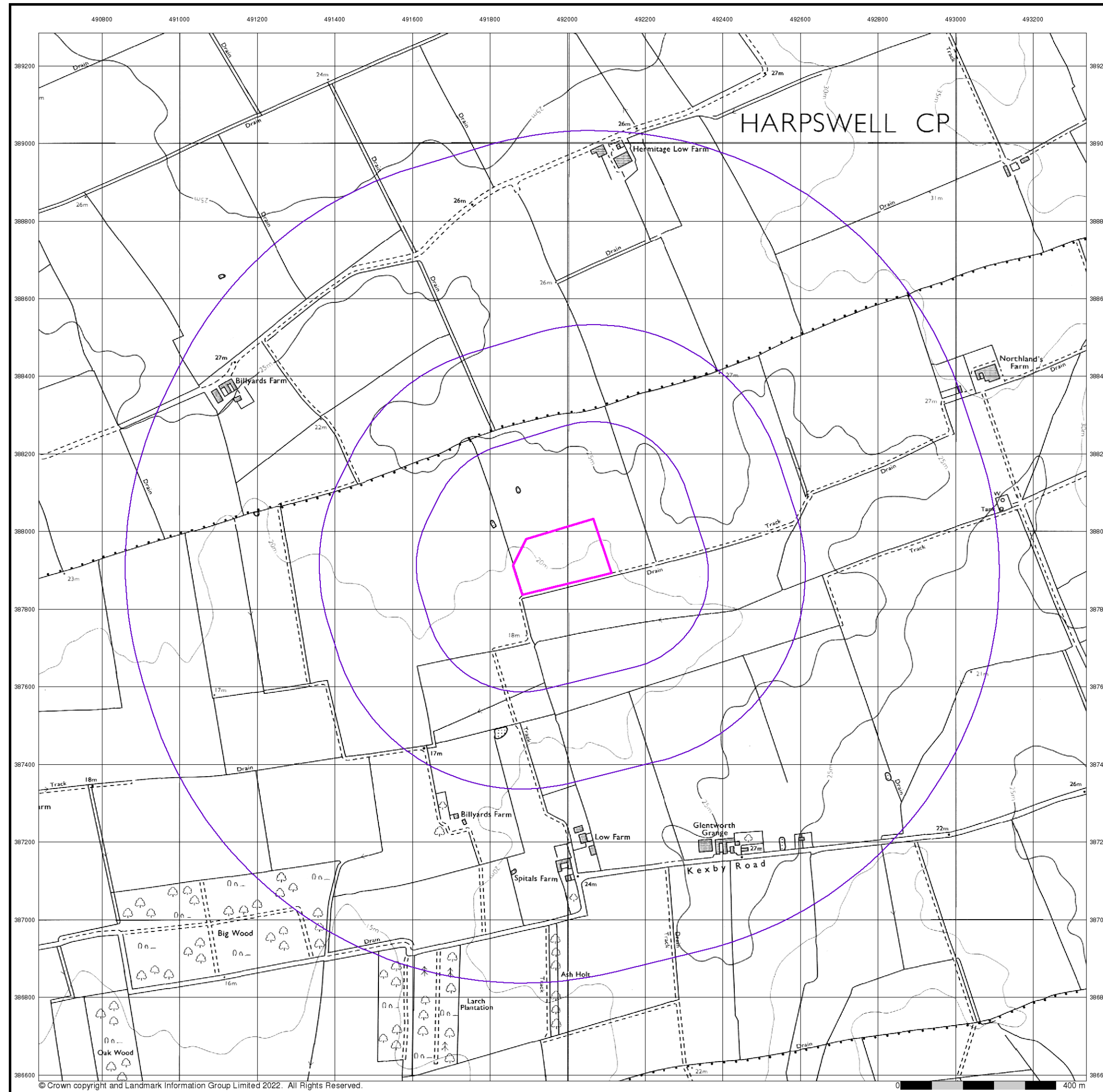


### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
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### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



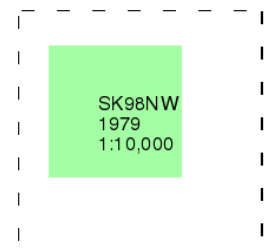
## Ordnance Survey Plan

Published 1979

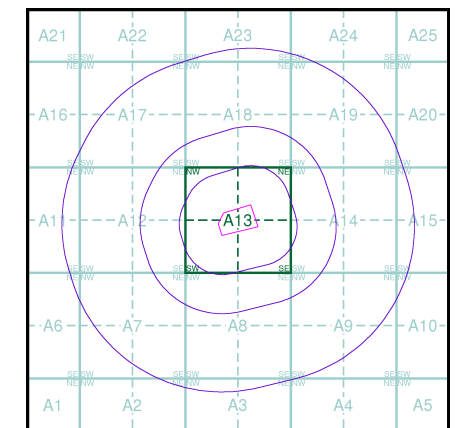
Source map scale - 1:10,000

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 A

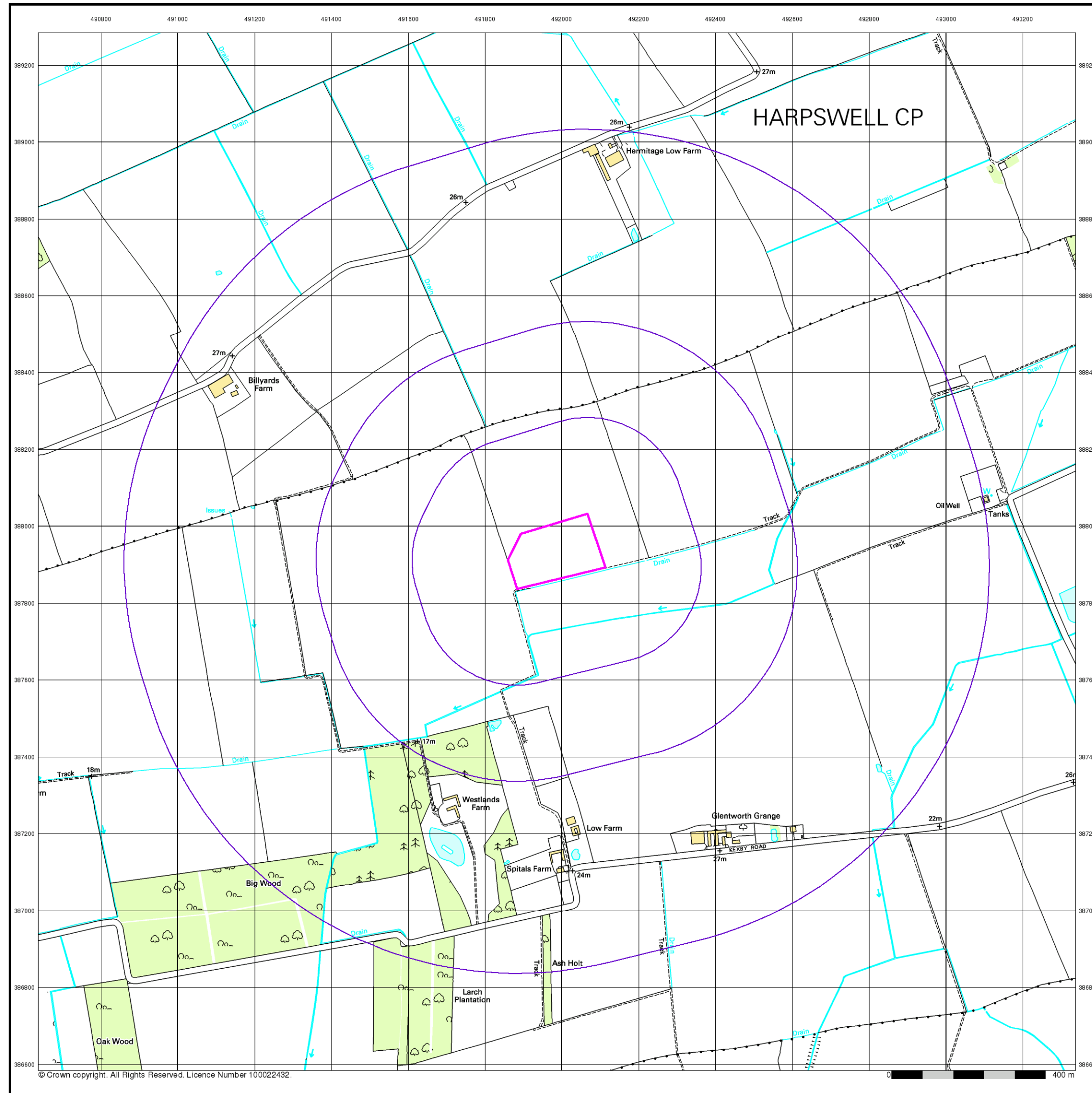


### Order Details

Order Number: 300650352\_1\_1  
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 Slice: A  
 Site Area (Ha): 3.16  
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### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN



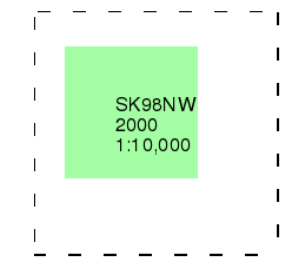
## 10k Raster Mapping

Published 2000

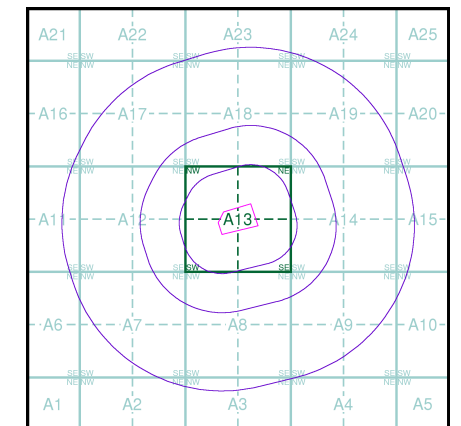
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 300650352\_1\_1  
 Customer Ref: File 522  
 National Grid Reference: 491990, 387930  
 Slice: A  
 Site Area (Ha): 3.16  
 Search Buffer (m): 1000

### Site Details

Glentworth West Wellsite, Off Northlands Road, Glentworth, Gainsborough, Lincolnshire, DN21 5DN

## Street View

Published 2022

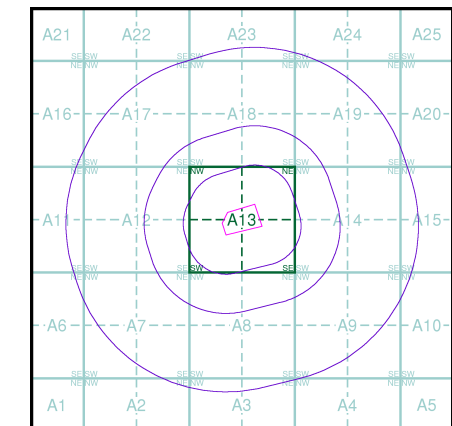
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

## Map Name(s) and Date(s)



## Street View Map - Slice A



## Order Details

Order Number: 300650352\_1\_1  
Customer Ref: File 522  
National Grid Reference: 491990, 387930  
Slice: A  
Site Area (Ha): 3.16  
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## Site Details

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