



Phase 1 (Desk Study) Report

Land between 10 and 12 Risegate Road, Gosberton

Produced for JC Architectural Consultant

September 2024

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Phase 1 (Desktop) Report: Land between 10 and 12 Risegate Road, Gosberton

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Executive Summary

FACTUAL INFORMATION	<i>Proposed works</i>	Demolition of a redundant commercial building and the erection of two residential two-storey properties with associated gardens, driveways and separate garages.		
	<i>Site location and size</i>	<i>Location:</i> Land between 10 and 12 Risegate Road, Gosberton, PE11 4EY, around grid reference 521100,329790 <i>Size:</i> About 70m by 30m in plan area		
	<i>Site features and current use</i>	The site comprises an existing steel barn, a small, dilapidated former cow shelter and two small heaps. The large steel barn (partly roofed in possible asbestos sheets) occupies the majority of the southern part of the site (25m by 27m) with the rest of the site being covered by compacted stone.		
	<i>Topography</i>	The site is relatively flat and located at a low local elevation. Ground levels are estimated to be about 3m above Ordnance datum (AOD).		
	<i>Site history</i>	- o The existing barn was probably originally built in the 1960s and was extended in the 1990s and has possibly been used as a workshop - o Possible former farmyard (on-site) – prior to 1950s - o Former possible bungalow (on-site) – late 1950s until 1990s - o Possible haulage yard for sewage removal wagons – 1990s until around 2010 - o Vacant site with occasional use for storage of building materials – around 2010 to present - o Existing garage (0m west) – from early 1970s, with fuel tank (about 15m west) - o Existing Elm Tree Farm (40m west) – from early 1970s		
	<i>Anticipated geology (subject to confirmation)</i>	<i>Strata</i>	<i>Description</i>	<i>Depth to base (m begl)</i>
		Made ground	Possible small thickness of made ground below building and hardstanding.	<1
		Tidal Flat Deposits – CLAY / SILT	Unconsolidated sediment, mainly mud and/or sand	8-9
		Oxford Clay Formation - MUDSTONE	Silicate-mudstone, grey, generally smooth to slightly silty, with sporadic beds of argillaceous limestone nodules	58 – 79
	<i>Hydrogeology</i>	- o The anticipated mudstone bedrock is classed as an Unproductive Aquifer - o The anticipated TFD clay drift is classed as an Unproductive Aquifer - o No nearby groundwater abstractions or groundwater Source Protection Zone (SPZ)		
	<i>Hydrology</i>	- o Nearest identified surface water feature: Risegate Eau - drain/ditch (18m north) - o There are significant flooding issues at or adjacent to the site		

	<i>Landfills and infilled land</i>	o There are no nearby reported historical landfills (none within 1km)
	<i>Radon</i>	The site is not affected by radon. No protection measures required
	<i>Land sensitivity</i>	o Nitrate Vulnerable Zone (on-site) – for surface water in Risegate Eau
	<i>UXOs</i>	o The site is in an area with a low historical bombing density o There are no identified nearby UXO-related feature (within 1km)
CONTAMINATION ASSESSMENT	<i>Initial conceptual site model (sources of contamination)</i>	Potential sources of contamination have been identified: A. Made ground B. Existing building fabric C. Current land use: occasional building materials storage D. Previous land use: Farm yard E. Previous land use: haulage yard F. Previous land use: workshops G. Existing red diesel above ground storage tank (AST) in southwest part of the barn H. Historical WWII bombing I. Highly organic subsoils J. Existing garage (0m west) including UST (15m west) K. Farm c. 40m west However, based on further analysis, two of the above sources (H and K) are not considered credible. Metals, PAHs, Asbestos, Petroleum hydrocarbons, VOCs and SVOCs were identified as contaminants of concern
	<i>Conceptual site model (pathways / receptors)</i>	Various possible pathways (including inhalation, ingestion, absorption, migration) have been considered for the above contaminants to reach and affect environmental receptors (e.g. humans, ecology, controlled waters & building materials)
	<i>Preliminary risk assessment</i>	A preliminary risk assessment has identified seven potential contamination linkages (PCL1 to PCL7) with unacceptable risks which merit further consideration: PCL1: Inhalation/ absorption/ ingestion in soft gardens by site users PCL2: Inhalation/ absorption/ ingestion by ground workers PCL3: Inhalation of asbestos in the existing building fabric by demolition workers PCL4: Inhalation of volatile vapours from ground contamination by future site users within houses PCL5: Migration of contaminants into the superficial aquifer PCL6: Absorption of contaminants by water supply pipework PCL7: Migration and inhalation/combustion of ground gas by future site users
	<i>Potentially required remediation</i>	o Survey and removal by competent professionals of any asbestos containing materials (ACMs) within the building fabric during site clearance

		- o Excavation and disposal or treatment of petroleum impacted subsoils (and groundwater) could be required - o Cover systems in proposed soft landscaped areas (for example, comprising at least 600mm thickness of imported clean soil) might be needed - o Vapour resistant membrane in floors are another potentially required remediation measure - o Off-site removal of two existing spoil heaps by suitably authorised waste contractors - o Barrier pipework (e.g., Protecta-line™ or similar) for water supply - o Ground gas resistant membrane in floor slabs
	<i>Further investigation works</i>	Further investigation is recommended to confirm the nature and extent of contamination and determine what remediation is appropriate. Proposed investigation works comprise: - o Several sample holes should be carried out to investigate the nature and extent of made ground and potential contamination. At least six sample holes (say, 2m deep) are recommended with geochemical tests for contaminants of concern on samples of ground material (and groundwater) - o Some organic matter testing of subsoils and ground gas monitoring to assess the risk of harmful ground gas. At least three boreholes could be converted into monitoring wells. A couple of ground gas monitoring visits might be adequate subject to favourable results
SITE MANAGEMENT	<i>Construction management</i>	Risks to members of the public and nearby residents (e.g. dust inhalation) and the wider environment must also be mitigated by the contractor's safe methods of working which must abide by relevant regulations such as the Control of Asbestos Regulations (2012) The removal or isolation of any existing ACM building fabric will need to be carried out by competent demolition contractors following appropriate survey work to mitigate the risks of asbestos contamination No further UXO risk mitigation requirement is expected – other than a suitable strategy for encountering unexpected UXOs
	<i>Reuse of site won material</i>	Clean site won natural soil materials (e.g., clay) should be suitable for reuse on site. Any excavated contaminated made ground or grubbed up hardstanding might need to be removed off site as waste; it will only be suitable for re-use at the site if it is covered by a suitable permit, waste exemption or protocol
	<i>Unforeseen contamination</i>	Work shall be halted in any area of any additional unforeseen contamination (for example, petroleum odours/staining or asbestos containing materials) encountered during the development of the site. The contamination will need to be monitored, investigated, and assessed to the satisfaction of the local authority.

	<i>Water supply pipework</i>	Potential sources of hydrocarbons have been identified. Therefore, barrier piping will probably be needed for water supply
	<i>Ground gas protection</i>	Any unforeseen contamination encountered during groundworks will need to be reported immediately to the local planning authority and adjacent works halted.

1 Introduction

The client, JC Architectural Consultancy, engaged Humberside Materials Laboratory Limited (HML) to undertake a Phase 1 (desktop study) report in advance of a proposed residential development at land between 10 and 12 Risegate Road, Gosberton, South Holland. The land will be hereinafter referred to as *the site*.

1.1 Aims

The aim of the Phase 1 investigation is to assess potential geo-environmental risks in relation to the proposed development works. This includes an evaluation of possible ground conditions and potential land contamination issues. This report is intended to provide a Stage 1 Tier 1: preliminary risk assessment (PRA) as defined in the Environment Agency Land Contamination Risk Management (LCRM) guidance.

1.2 Scope

The scope of the investigation includes:

- a site walkover
- the collection and review of suitable desk study information
- the production of an initial conceptual site model and preliminary risk assessment
- recommendations for further investigation or remediation works, where appropriate

1.3 Conditions and Limitations

This report is produced solely for the client and should only be copied in full. When transmitted electronically, the definitive copy of the report is held by Humberside Materials Laboratory Ltd.

This report is prepared on the assumption that all relevant facts have been disclosed.

The comments given in this report and the opinions expressed assume that conditions do not vary beyond the range revealed by this study and the information provided in the production of this report is complete and reliable.

2 Sources of Site Information

Various sources of information, as shown below (in Table 1), were reviewed to investigate and compile this desk study investigation.

Table 1: Sources of site information			
Source description		Details	Date
Site specific	HML site walkover	Photos (in Appendix A) and notes	05 Aug 2024
	Envirocheck report	Envirocheck report including environmental information (presented as Appendix C) and historical maps (presented as Appendix B), Order Number: 354284147_1_1 Customer reference, ED-2024-07-30	30 Jul 2024
	Site location plan	JC Architectural Consultant drawing number 0412/23/03D	14 Sept 2023
	Proposed floor plans	JC Architectural Consultant drawing number 0412/23/01B	14 Sept 2023
	Proposed floor plans	JC Architectural Consultant drawing number 0412/23/02A	14 Sept 2023
	Flood Risk Assessment	Produced by S M Hemmings of Peterborough as part of planning applicatopn H08-081-23	09 Oct 2023
Local information	Online maps and photos	www.google.co.uk , www.openstreetmap.org , www.promap.co.uk & www.streetmap.co.uk	Jul 2024
	Geological maps	BGS 1:50000 Series, Spalding, Sheet 144 (1992), Solid & Drift . © NERC	2024
	Online BGS data	www.bgs.ac.uk (map data & borehole records)	Jul 2024
	Historical photos	www.britainfromabove.org.uk	Jul 2024
	Historical maps	www.oldmapsonline.org ; www.maps.nls.uk	Jul 2024
	Historical information	www.nationalarchives.gov.uk ; www.historicengland.org.uk ;	Jul 2024
	Environmental info	https://magic.defra.gov.uk/magicmap.aspx	Jul 2024
	Mining info	https://mapapps2.bgs.ac.uk/coalauthority/home.html	Jul 2024
	Radon info	https://www.ukradon.org/information/ukmaps	Jul 2024
	Soil info	www.ukso.org (soil observatory website)	Jul 2024
	Flooding info	www.gov.uk (flood maps)	Jul 2024
	Planning info	South Holland District Council (SHDC) planning portal	Jul 2024
	UXO info	https://zeticauxo.com/	Jul 2024

3 Site Description and Topography

3.1 Proposed development

The proposed development comprises the demolition of a redundant barn-style workshop and storage building and the erection of two residential two-storey properties as per local planning permission (H08-0861-23).

The proposed building works comprise the construction of two new residential properties that will be two storeys tall and will include a separate garage for each property. The site will include some areas of soft landscaping on the northern side of both proposed properties as well as a small area on the western side of Plot 2. There will also be large areas of hardstanding that include driveways for both properties and a longer driveway/track for access to Plot 1 that is situated in the south of the site. There is some expected new shrub and tree planting around the southern and eastern boundary. The properties are to be accessed from Risegate Road that is north of the site.

Ground levels are expected to remain similar to existing (about 3m AOD). Proposed ground floor levels are about 3.4m AOD.

Prior demolition works mainly comprise the removal of a large L-shaped commercial barn building. A small dilapidated former cow shelter in the east part of the site will also need to be removed as will an existing above ground storage tank (AST) for red diesel.

3.2 Site location and size

The site comprises the land between 10 and 12 Risegate Road, Gosberton, Spalding, Lincolnshire, post code PE11 4EZ. The site is centred around grid reference 521100,329790.

The site occupies a rectangular (slightly L-shaped) parcel of land which is about 70m by 30m in plan area. The total area is about 0.18 hectares.

A site location plan is included in Appendix A.

3.3 Site features

Photographs and a site features plan are presented later (in Appendix A).

A site walkover was undertaken on the 05th August 2024. Access was available around the whole site. Photos were taken and site features were noted, as detailed below.

- The site includes an existing barn-style building, a small, dilapidated former cow shelter, a large yard area and two small stockpiles of stone and soil. The large

steel barn occupies the majority of the southern part of the site (25m by 27m) with the rest of the site being surfaced with compacted stone

- The barn building is L-shaped with a concrete floor slab. Some asbestos containing materials (ACMs) are suspected within corrugated cement panels in part of the roof (the older northern part of the barn building). The barn building is steel framed with a steel truss roof and is clad in metal panels
- The barn building has previously been used as a workshop and storage building but has clearly been disused for some time
- The whole barn building is disused, but there are some materials and equipment awaiting removal. The equipment includes some small appliances for carpentry as well as some small machinery used for road works
- Within the southeast corner of the barn building there is a red diesel above ground tank that has a connected external hose
- The small farm building in the east part of the site was previously used for cattle shelter but looks to be in poor condition. The roof is of suspected ACM corrugated cement panels
- There are two small stockpiles onsite that look to consist of stone and soil, with some rubble in the northern pile. Both of the small heaps are within the main front yard area
- The rest of the site is covered in stone which is grassy and vegetated near the eastern boundary. Towards the south of the site there is a large area of overgrown plants (such as nettles and brambles)

3.4 Current site use

The site is currently a haulage yard with a large disused workshop and storage barn-style building.

3.5 Topography

The site is relatively flat and located at a low local elevation. Ground levels are estimated to be about 3m above Ordnance datum (AOD).

The site and the surrounding area is located within the flat, low-lying Lincolnshire Fens. Ground levels in the wider area are between 3m and 4m AOD.

3.6 Site boundaries and surrounding land use

The site is in an urban area (close to rural land) which has a mixture of residential and commercial use as detailed below (in Table 2).

Table 2: Adjacent land use and existing boundaries

<i>Direction:</i>	North	East	South	West
<i>Boundary type:</i>	Metal fencing	Wooden fencing and hedge	Wooden fencing and hedge	Wooden fencing and hedge
<i>Adjacent land use:</i>	Road (Risegate Road) and large drainage channel (Risegate Eau)	Residential dwellings	Residential dwellings	Commercial building (Land Rover garage with disused fuel pump)
<i>Nearby land use:</i>	Residential dwellings	Farm fields	Farm fields	Residential dwellings

3.7 Signs of potential contamination

No evidence (visual or olfactory) was identified as potential gross contamination during the site walkover. No strange odours were noted.

Nevertheless some potential signs of contamination were noted:

- An above ground storage tank was identified in the southeastern corner of the metal barn that included an external delivery hose. The above ground tank is reportedly used for red diesel and looks to be disused
- The roof of the barn looks to be constructed of concrete tiles that may contain asbestos containing materials (ACMs)
- The small heaps of soil and stone could contain elevated levels of general contaminants (such as metals, PAHs and asbestos)
- There could be some contamination within the stone surfacing and deeper made ground
- The site's evident historical use as workshops and haulage yard could be a source of petrochemical contamination as could the adjacent garage (to the west)

4 Site History

4.1 Historical timeline

Historical maps and photos, presented later (in Appendices A and B), have been reviewed. Features considered to be potentially relevant are detailed below (in Table 3).

Table 3: Historical timeline		
Map details	Within the site boundary	Outside of the site boundary (within 500m)
Year: 1887-1889 Scale: 1:2500 & 1:10560	Small former building in west of site Part of possibly existing farm building in east Former pumped well near entrance of site	Risegate Eau drain (5m north) Risegate Farm (450m east) Windmill (500m west)
Year: 1904-1906 Scale: 1:2500 & 1:10560	Small building in west removed Pumped well no longer shown	(No significant change identified)
Year: 1931-1932 Scale: 1:2500 & 1:10560	(No significant change identified)	Windmill now seen as Old Windmill (500m west)
Year: 1956-1958 Scale: 1:10000	Building in north of site (possible bungalow) - Newhaven	(No significant change identified)
Year: 1973 Scale: 1:2500	Large building in centre and west of site (barn) Small building in east of site (possible domestic outbuilding) Small rectangular building in southeastern corner Part of new building in east of site Part of farm building in east removed (c. 1887) or resized	Garage (10m west) Elm Tree Farm (40m west) Sewage works (250m north)
Year: 1975-1977 Scale: 1:10000	Small building in southeastern corner removed	White House Farm (300m west)
Year: 1987 Scale: 1:2500	Building in north of site reduced or rebuilt into L-shape building Small building in east removed	(No significant change identified)
Year: 1995 Scale: 1:2500	(No significant change identified)	Willowdene Farm (350m northwest) White House Farm no longer shown (300m west)
Year: 1999 Aerial photo	Portacabin in northeast corner Barn building extended into south of site Small building in north removed Yard in use as a haulage yard for wagons	(No significant change identified)
Year: 2000 Scale: 1:10000	(No significant change identified)	Risegate Farm no longer shown (450m east)
Year: 2007 Aerial photo	(No significant change identified)	(No significant change identified)

Table 3: Historical timeline

<i>Map details</i>	<i>Within the site boundary</i>	<i>Outside of the site boundary (within 500m)</i>
Year: 2009 (Mar) Google Streetview	Site used as a haulage yard for sewage wagon hire by Bates Environmental Ltd	Fuel pump extension in adjacent garage (18m west)
Year: 2011 (May) Google Streetview	Site yard used to store bricks and stone. Metal tank in east part of site (possible dug-up septic tank)	(No significant change identified)
Year: 2022 Aerial photo	Site appears disused	(No significant change identified)
Year: 2024 Scale: 1:10000	(No significant change identified)	(No significant change identified)

4.2 Historical discussion

4.2.1 On site

The site has seen previous use as a possible farmyard, a domestic bungalow property and as possible various commercial businesses including a carpenters or metalworkers workshop, a haulage yard (for sewage removal wagons) and general occasional builder's storage yard. The site was possibly part of farmyard prior to the 1950s when a bungalow (Newhaven) was reportedly built on the site that remained until the 1990s and included a septic tank in the east part of the site. The older part of the barn building was erected around the 1960s and was extended southwards around the 1990s when the site was probably used as a haulage yard (e.g. by Bates Environmental). The site appears to have been used only for occasional storage of building materials since about 2010.

4.2.2 Off site

The surrounding land has seen some historical commercial and agricultural usage. Most notably, the adjacent garage (0m west) has been present since the 1970s and includes a fuel pump and island (presumably now disused) and possibly former below ground tanks about 15m west of the site.

5 Geology, Hydrogeology and Hydrology

5.1 Published geology maps

5.1.1 *Made ground*

No made ground is indicated at the site by local geology maps (e.g., as shown below, in Figure 2, and later, in Appendix C). Nevertheless, some made ground is likely, for example, granular fill below the building's floor slab.

Any made ground below the site could be of limited thickness (e.g., less than 1m). No historical pits or earthworks have been identified or are suspected.

5.1.2 *Drift deposits*

As detailed below (in Figure 1) and later (in Appendix C), the local geology map indicates that the site's superficial (i.e., drift) soil material below the site consists of:

- Tidal Flat Deposits (TFD) – clay and silt

5.1.3 *Solid geology*

BGS mapping shows the bedrock below the site is:

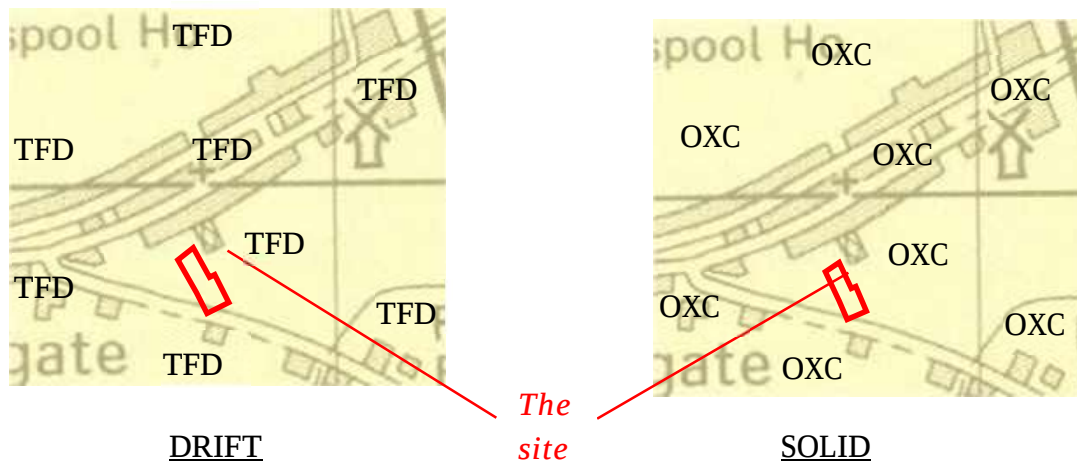
- Oxford Clay Formation (OXC) – mudstone

There are no noted faults in the underlying solid bedrock geology.

5.1.4 *Anticipated geology*

Based on the inspected geological, historical and topographical information, the provisionally anticipated ground conditions are as shown below (in Table 4).

Figure 2: Local published BGS geology information

ARTIFICIAL GROUND:

- None indicated

DRIFT:

-

Nearby:

- TIDAL FLAT DEPOSIT (TFD) – SILT AND CLAY
- Unconsolidated sediment, mainly mud and/or sand
- Possibly 8.5m thickness present below the site

SOLID:

- OXFORD CLAY FORMATION (OXC): MUDSTONE
- Silicate-mudstone, grey, generally smooth to slightly silty, with sporadic beds of argillaceous limestone nodules
- About 175m in complete thickness. Possibly 50m to 70m thickness present below the site

BGS 1:50000 Series, Spalding, Sheet 144 (1992), Solid & Drift . © NERC

Table 4: Anticipated ground conditions inferred from geology records

Strata	Description	Thickness (m)	Depth to base (m begl)
Made ground	Possible small thickness of made ground below building and hardstanding.	<1	<1
Tidal Flat Deposits – CLAY / SILT	Unconsolidated sediment, mainly mud and/or sand	8-9	8-9
Oxford Clay Formation - MUDSTONE	Silicate-mudstone, grey, generally smooth to slightly silty, with sporadic beds of argillaceous limestone nodules	50 – 70	58 – 79
All anticipated ground conditions are subject to confirmation with site works			

5.2 Mining and quarrying

5.2.1 BGS recorded mineral sites

There are no nearby reported BGS recorded mineral sites (within 2km).

5.2.2 Mining

The site is not in an area which might not be affected by coal mining.

Also, non-coal mining is not expected to affect the site. No historical recorded mine workings have been identified.

5.3 BGS geological hazards

The British Geological Survey (BGS) rates the geological hazards at the site as *No Hazard* to *Moderate*, as shown below (in Table 5). These are based on presumed ground conditions only and are subject to further assessment based on the findings of site works.

Table 5: BGS-rated geological hazards	
<i>Hazard</i>	<i>Hazard potential</i>
Collapsible ground stability	No hazard
Compressible ground stability	Moderate
Ground dissolution stability	No hazard
Landslide ground stability	Very low
Running sand ground stability	Moderate
Shrinking & swelling clay	Low

5.4 Hydrogeology (i.e. groundwater)

5.4.1 Groundwater table

The location of the groundwater table is unknown without confirmation by site works. The natural groundwater table is likely to be moderately shallow given the site's low elevation.

5.4.2 Permeability, aquifers and groundwater vulnerability

The combined groundwater vulnerability at the site is classed as Unproductive. This reflects the following hydrogeological data:

- The anticipated mudstone bedrock is classed as Unproductive Strata
- The anticipated clay superficial is classed as Unproductive Strata
- The closest recorded groundwater abstraction is for H & C Gotobed (979m southeast): General Farming And Domestic
- The site is not within a groundwater Source Protection Zone (SPZ) and there are no nearby SPZs within 2km

5.5 Hydrology (i.e. surface water)

5.5.1 *Nearby water courses*

The nearest identified surface water features are as follows:

- Risegate Eau - drain/ditch (18m north)
- Drain (80m southwest)
- River Glen (3.5km southeast)

5.5.2 *River Quality data*

There is no nearby River Quality data.

5.5.3 *Surface water abstractions*

There are no nearby water authority surface water abstractions (within 2km)

5.5.4 *Flooding*

A flood risk assessment is beyond the scope of this report. Nevertheless, the following factual information is noted.

- The site is reported to be in an area within the extent of flooding (from rivers or sea)
- There are no nearby reported Flood Defences
- The site is not within or near an Area Benefitting from Flood Defences
- Part of the site is within in an area (Flood Zone 3) with a reported high probability of flooding, although most of the site is within Flood Zone 1
- There could be some risk of local surface water flooding but there could be a very low risk at the site

A Flood Risk Assessment for the site carried out by S M Hemmings provided further more definitive information.

6 Environmental Data

6.1 Landfills and waste

6.1.1 Landfills

Near to the site, there are no reported:

- BGS Recorded Landfill Sites (none within 1km)
- Historical Landfill Sites (none within 1km)
- Registered Landfill Sites (none within 1km)
- Local Authority Recorded Landfill Sites (none within 1km)

6.1.2 Other waste sites

There are no other waste sites considered to be of potentially significant concern to the site. Near to the site, there are no reported:

- *Licensed waste management facilities, Locations* (none within 1km)
- *Registered Waste Transfer Sites* (none within 1km)
- Integrated Pollution Control Registered Waste Sites (none within 1km)
- Registered Waste Treatment or Disposal Sites (none within 1km)
- Licensed waste management facilities, Landfill boundaries (none within 1km)

6.1.3 Potentially infilled land

Near to the site there is some identified potentially (water) infilled land (in order of proximity):

- Unknown Filled Ground e.g. pond or marsh (260m west)
- Unknown Filled Ground e.g. pond or marsh (445m southwest)
- Unknown Filled Ground e.g. pond or marsh (599m southwest)

There is no identified potentially (non-water) infilled land.

6.2 Pollution (and pollution control) data

There are some nearby reported *Discharge consents*:

- J H King & D O King (Partners) (47m north); status: Post National Rivers Authority Legislation where issue date > 31/08/1989
- Mrs Beattie (53m south); status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995); discharge type: Sewage Discharges - Final/Treated Effluent - Not Water Company

- Charles Sherrif Tateson (110m northeast); status: Pre National Rivers Authority Legislation where issue date < 01/09/1989

There are no other identified pollution data or pollution control data located nearby. Near to the site, there are no reported:

- Contaminated Land Register Entries And Notices (none within 1km)
- Local Authority Pollution Prevention And Control (none within 1km)
- Prosecutions Relating To Controlled Waters (none within 1km)
- Enforcement And Prohibition Notices (none within 1km)
- Integrated Pollution Controls (none within 1km)
- Integrated Pollution Prevention And Control (none within 1km)
- Local Authority Integrated Pollution Prevention And Control (none within 1km)
- Local Authority Pollution Prevention And Control Enforcements (none within 1km)
- Registered Radioactive Substances (none within 1km)
- Water Industry Act Referrals (none within 1km)
- Control Of Major Accident Hazard Sites, COMAH (none within 1km)
- Explosive Sites (none within 1km)
- Notifications of Installations Handling Hazardous Substances, NIHHS (none within 1km)
- Planning Hazardous Substance Consents (none within 1km)
- Planning Hazardous Substance Enforcements (none within 1km)

6.3 Soil chemistry

Estimated soil chemistry data from the BGS indicates element concentrations for rural soil around the site could be as shown below (in Table 6).

Table 6: BGS Estimated/Measured Soil Chemistry		
Contaminant	Concentration (mg/kg)	
	Rural	Urban
Arsenic	<15	No data available
Cadmium	<1.8	
Chromium	60 – 90	
Lead	<100	
Nickel	15-30	

6.4 Radon

With respect to *radon potential*, the site is in a Lower probability radon *area* in which less than 1% of homes are estimated to be at or above the *Action Level*. BGS and National

Geoscience Information Services report that: “No radon protection measures are necessary in the construction of new dwellings or extensions.”

6.5 Industrial land use

As discussed previously (in Section 4), historical evidence shows there has been some industrial historical land use of potential concern (at or near to the site) including:

- Workshop and storage building, possibly for carpentry and metalworking – 1990s to around 2010
- Vacant plot used for occasional building material storage – around 2010 to present day
- Haulage yard, for example for sewage removed wagons – 1990s to around 2010
- Farm building – possibly since c.1880s to 1970s
- Garage (10m west) – 1970s until present, including possible former underground storage tank (UST) (about 15m west)
- Farm (40m west) – possibly from 1970s until present

There are some nearby reported *Contemporary Trade Directory Entries*. The closest are listed below (in order of proximity to the site).

- British 4 X 4 Centre (14m northwest) – Garage Services; status: Inactive
- 4 Wheel Drive Truck Centre (16m west) – Garage Services; status: Active

The nearest reported *Point of Interest (POI) for commercial services* is as follows.

- British 4 X 4 Centre (14m northwest) – Vehicle Repair, Testing and Servicing
- 4 Wheel Drive Truck Centre (15m west) - Vehicle Repair, Testing and Servicing

The nearest reported Point of Interest (POI) for manufacturing and production are as follows.

- H K Charlton & Son (273m east) – Farming
- F Drakard (296m northwest) – Farming
- B & S Sandall (663m east) - Farming

The nearest reported Points of Interest (POI) for public infrastructure are as follows.

- Sewage Works (212m north) – Infrastructure and Facilities
- Sewage Works (219m north) - Infrastructure and Facilities

The nearest reported *Fuel Station Entry* is as follows.

- 4 Wheel Drive Truck Centre (15m west) – Status: Obsolete

Near to the site, there are no reported:

- Points of Interest (POI) for education and health (none within 1km)

- Points of Interest (POI) for Recreational and Environmental (none within 1km)

6.6 Sensitive land use

There are no identified sensitive land uses at or near to the site apart from:

- Nitrate Vulnerable Zone (on-site) – for surface water in Risegate Eau Nvz
- Nitrate Vulnerable Zone (115m west) – for surface water in Black Sluice Idb Draining To The South Forty Foot Drain Nvz

7 Unexploded ordnance (UXO)

7.1 Zetica Bomb Risk Map

A Zetica Unexploded Bomb Risk Map, as presented later (in Appendix E), shows that:

- The site is within an area of LOW historical bombing density (i.e. >15 bombs per 1000 acres of area)
- There is not an identified nearby *UXO find* (within 1km)
- There are no identified nearby *Luftwaffe bombing targets* (within 1km)
- There are no identified nearby *docks* (within 1km)
- There are no identified nearby *transport, utilities or industry* (within 1km)
- There are no identified nearby *military sites* (within 1km)
- There are no identified nearby *bombing decoys* (within 1km)

8 Initial Contaminated Land Assessment

8.1 Assessment principles

Current legislation and best practice, such as Part IIA of the Environmental Protection Act (1990) and the Land Contamination Risk Management (LCRM) guidance, available online (from the EA via the UK government website), recommend that potentially contaminated land is managed using a risk-based approach. Model procedures to assess the risks from contaminated land involve the development of a conceptual site model (CSM) and the identification and assessment of possible contamination linkages.

A contamination linkage comprises a source (i.e. a contaminant capable of causing pollution or harm), a receptor and a viable pathway by which one can be transmitted to the other. If one of these three elements are missing, there is no significant risk.

The risk from a potential contamination linkage can be assessed as a product of the severity of the consequences that might arise from the contamination hazard and the probability of the hazard occurring, as outlined in CIRIA C552 (Rudland *et al.*, 2001). The definitions used to perform the risk assessment for the subject site are shown below (in Tables 7 to 10).

Table 7: Severity of contamination hazard being realised

Classification	Category/Definition			
	Human	Controlled waters	Property	Eco system
Severe	Short term acute risk	Short term risk	Catastrophic damage	Short term risk
Medium	Chronic damage	Pollution to sensitive water resources		Significant change
Mild		Pollution to non-sensitive water resources	Significant damage	Significant damage
Minor	Non-permanent health effects		Repairable damage	

Table 8: Probability of hazard being realised

Classification	Definition
Highly likely	There is a pollution linkage and an event that appears very likely in the short term and or almost inevitable over a long term, or evidence at the receptor of harm or pollution
Likely	There is a pollution linkage and all elements are present which means that it is probable that an event will occur.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event will occur. However, it is not certain that even over a long period such an event would occur and is less likely in the short term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the long term.

A matrix can be used to determine a suitable risk classification, as shown below (in Table 19). The largest risks are where the severity of the contaminant is great and the probability of the contaminant linkage occurring is highly likely. The definitions of the different classifications used in this assessment, based on CIRIA C552 (Rudland *et al.*, 2001), are also shown below (in Table 10).

Table 9: Risk classification matrix					
		Consequence			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Table 10: Risk classification definition	
Classification	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard or there is evidence that severe harm to a designated receptor is currently occurring. This risk if realised is likely to result in a substantial liability. Investigation and or remediation is required.
High	Harm is likely to a designated receptor from an identified hazard or there is evidence that severe harm to a designated receptor is currently occurring. This risk if realised is likely to result in a substantial liability. Investigation and or remediation may be necessary in the short term and likely over the long term.
Moderate	It is possible that harm could arise to a designated receptor from the identified hazard. However, it is relatively unlikely that such a hazard would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is normally required to clarify and determine the potential risk. Some remedial works may be required in the long term.
Low	It is possible that harm could arise to a designated receptor from the hazard identified but is likely that this hazard if realised would at worst normally be mild.
Very low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe

8.2 Initial conceptual site model (CSM)

The following conceptual site model considers all plausible sources, pathways and receptors of potential contamination. This is based on the proposed development which is residential.

8.2.1 Sources of contamination

Based on the assembled desk study information, the identified potential sources of contamination are shown below (in Table 11). At this stage, some sources are considered even where there might potentially be no plausible pathway to the site or where the associated contamination might not be a viable hazard to receptors.

Table 11: Potential sources of contamination												
Location	Potential source	Potential contaminants of concern										Credible source?
		Soil and/or groundwater									Gas	
		Metals	PAHs	Asbestos	Petroleum hydrocarbons	UXOs	VOCs	SVOCs	'	'	Hazardous ground gases	
On-site	A. Made ground	ü	ü	ü	ü							Y
	B. Existing building fabric	ü		ü								Y
	C. Current land use: occasional building materials storage	ü	ü	ü	ü							Y
	D. Previous land use: Farm yard	ü	ü		ü		ü	ü				Y
	E. Previous land use: haulage yard				ü		ü					Y
	F. Previous land use: workshops	ü	ü	ü	ü		ü	ü				Y
	G. Existing red diesel above ground storage tank (AST) in southwest part of the barn				ü		ü					Y
	H. Historical WWII bombing					ü						N
	I. Highly organic subsoils										ü	Y
Off-site	J. Existing garage (0m west) including UST (15m west)	ü	ü		ü		ü					Y
	K. Farm c. 40m west	ü			ü			ü				N

Some of the above contamination sources (Source H and K) are not considered credible sources of contamination because desk study information indicates only minimal probability of such sources. This is explained as follows.

- Source H: No significant hazard is anticipated from unexploded WWII bombs dropped on the site. The site is in an area with a reported low bombing density and there are no identified nearby UXO-related features

- Source K: Minimal migration of contaminants from the farm (40m west) is anticipated to reach the site

8.2.2 Pathways

There are many potential pathways to receptors considered. For the proposed site, these may potentially include:

- Inhalation (i.e., indoor or outdoor dust or vapour)
- Ingestion (i.e. swallowing ground material or dust)
- Absorption (i.e. dermal contact with ground material or aggressive chemical attack)
- Migration (i.e. vertical/lateral movement through soil, rock, groundwater, building materials, voids and along services)

In outdoor areas, the pathways for soil contaminants to reach humans tend to be inhalation of dust, ingestion and absorption. In some outdoor areas (e.g. within soft landscaping) there might potentially be opportunity for direct exposure to soil contaminants and consumption of home grown produce. However, where the proposed development involves a substantial layer of permanent hardstanding, this should generally prevent direct exposure to contamination.

Within any indoor areas, the main pathway from pollutants to people is typically through the inhalation of vapours and gases. Generally, this could potentially include some of the more volatile organic compounds including lighter fraction petroleum hydrocarbons (as well as permanent gases such as carbon dioxide and methane). Of course, more direct pathways (absorption, ingestion, etc.) might also occur indoors if soil materials are physically transported indoors (e.g. by wind or on footwear).

Migration of fluid contamination can occur through permeable soil and rock sub-strata, often along preferential pathways. Liquid leachate contamination will typically tend to flow down vertically through unsaturated permeable strata and spread out more laterally when it reaches impermeable strata or saturated ground. Preferential pathways can also occur through artificial features such as pipes and granular bedding.

Migration can occur to facilitate other pathways. For example, inhalation of vapours may occur after migration through soil strata. Also, migration may result in the build-up and combustion of some ground gases, e.g. methane.

In some circumstances, installed foundation piles may provide a vertical pathway for contamination. Some pile types are more likely to provide a pathway than others.

8.2.3 Receptors

Receptors comprise those material items or living beings that may be impacted by contaminants. For the site, these may include:

- human site users (i.e. site workers, future site users, visitors, trespassers)
- controlled waters (i.e. bodies of groundwater and surface water)
- building materials and services (e.g. clean water pipework and buried concrete)
- ecological systems (e.g. local wildlife and fauna)
- adjacent site users (e.g. humans, ecological systems)

8.3 Preliminary risk assessment (PRA)

A preliminary risk assessment is presented below (in Table 12). This shows identified possible potential contamination linkages as well as the findings of the initial conceptual site model.

Table 12: Initial conceptual site model and preliminary risk assessment						
Initial conceptual site model			Preliminary risk assessment			
Potential source	Potential pathway	Potential receptor	Probability	Severity	Risk rating	Comments / Rationale
1. Made ground 2. Existing building fabric 3. Current land use: occasional building materials storage 4. Previous land use: Farm yard 5. Previous land use: haulage yard 6. Previous land use: workshops 7. Existing red diesel above ground storage tank (AST) in southwest part of the barn 8. Existing garage (0m west) including UST (15m west) Metals, PAHs, Asbestos, Petroleum hydrocarbons, VOCs and SVOCs	Inhalation, ingestion, absorption	Future site users	Low likelihood	Medium	Low / Moderate	Made ground, existing building fabric and former land uses could have given rise to toxic non-organic and organic ground contaminants including a risk of asbestos inhalation
		Ground workers	Low likelihood	Medium	Low / Moderate	Exposure to contaminated subsoils could occur during groundworks.
		Demolition workers	Low likelihood	Medium	Low / Moderate	Demolition workers could be exposed to possible ACMs in building fabric of barn
	UXO explosion	Ground workers	Negligible	Severe	Low	Preliminary UXO information indicates no credible source of UXOs
	Inhalation of vapours	Future site users	Low likelihood	Medium	Low / Moderate	On-site and local spills and leaks of vapour-producing fuel and oils could have occurred historically. Some potential for pesticides also.
		Ground workers	Unlikely	Medium	Low	
	Migration	Aquifer waters	Unlikely	Mild	Very Low	Site is underlain by Tidal Flat Deposits which are Unproductive Strata
	Migration	Surface waters	Unlikely	Medium	Low	Nearby surface water feature: drain – Risegate Eau (15m north)
	Absorption	Local flora and fauna	Low likelihood	Medium	Low / Moderate	Elevated levels of phytotoxic contamination (e.g., zinc and copper) are possible
	Aggressive attack (by absorption)	Water pipework	Low likelihood	Medium	Low / Moderate	To mitigate potential permeation by hydrocarbons, barrier pipe might be needed for water supply
	Aggressive attack (by absorption)	Buried concrete	Unlikely	Medium	Low	Concrete may still require sulphate protection

Table 12: Initial conceptual site model and preliminary risk assessment

<i>Initial conceptual site model</i>			<i>Preliminary risk assessment</i>			
<i>Potential source</i>	<i>Potential pathway</i>	<i>Potential receptor</i>	<i>Probability</i>	<i>Severity</i>	<i>Risk rating</i>	<i>Comments / Rationale</i>
9. Highly organic subsoils	Migration and inhalation combustion	Future site users	Unlikely	Severe	Low / Moderate	Anticipated TFD subsoils could be very peaty and produce CH ₄ and CO ₂

Risk ratings of very low or low above are not considered significant while higher risk ratings (of Low/Moderate or above) are deemed unacceptable. The source-pathway-receptor combinations associated with unacceptable risks constitute potential contamination linkages (PCLs) which need further consideration.

8.3.1 *Potential contamination linkages (PCLs)*

The above preliminary risk assessment has identified seven potential contamination linkages (PCL1 to PCL7) with unacceptable risk (Low/Moderate), as summarised below (in Table 13). These source-pathway-receptor contamination linkages are of unacceptably high risk and require further attention.

Table 13: Potential contamination linkages (PCLs)

Ref.	Source	Pathway	Receptor	Risk rating	Possible solution
PCL1	1. Made ground 2. Existing building fabric 3. Current land use: occasional building materials storage 4. Previous land use: Farm yard 5. Previous land use: haulage yard 6. Previous land use: workshops 7. Existing red diesel above ground storage tank (AST) in southwest part of the barn 8. Existing garage (0m west) including UST (15m west) Metals, PAHs, Asbestos, Petroleum hydrocarbons, VOCs and SVOCs	Inhalation, ingestion, absorption	Future site users	Low / moderate	Soil cover systems in soft garden and landscaped areas and off-site removal of two existing spoil heaps
PCL2			Ground workers	Low / moderate	Safe working practices
PCL3			Demolition workers	Low / moderate	Survey and removal of any asbestos containing materials (ACMs) within the building fabric, as needed
PCL4		Inhalation of vapours	Future site users	Low / Moderate	Excavation and disposal of impacted soils (and vapour resistant membrane)
PCL5		Absorption	Flora and fauna (ecology)	Low / moderate	Soil cover systems in soft garden and landscaped areas
PCL6		Aggressive attack (by absorption)	Water supply pipe	Low / moderate	Barrier pipe for water supply
PCL7	9. Highly organic subsoils	Migration and inhalation/combustion	Future site users	Low / moderate	Gas resistant membrane in floors and subfloor ventilation

8.3.3 Risks to human health (of future site users)

Human health of future site users is at *Low/Moderate* risk from:

- Direct exposure (inhalation of dust, absorption, ingestion) to possible building fabric contamination (specifically, asbestos)
- Inhalation of vapours from hydrocarbon impacted subsoils and/or groundwater
- Inhalation or combustion of hazardous ground gases (such as methane and carbon dioxide)

8.3.2 Risks to human health (construction workers)

The human health of ground workers is at *Low/Moderate* risk from:

- Direct exposure (inhalation of dust, absorption, ingestion) to possible ground contamination (e.g. fuel/oil hydrocarbons, metals, PAHs and asbestos)

- The health of demolition workers is low/moderate risk from: building fabric contamination (specifically, asbestos)

However, any risks to the health of groundworkers or demolition workers should be acceptable when they are dealt with by a competent contractor who has been informed of the anticipated contamination hazards (for example, by providing the contractor with a copy of this report).

8.3.4 Risks to controlled waters

There are no identified significant risks to surface waters or groundwaters.

8.3.5 Risks to ecology

Elevated levels of contamination might be present that might affect wildlife (e.g., heavy metals). For example, copper and zinc are phytotoxic. There is a Low/Moderate risk to ecological health.

8.3.6 Risk to building materials

Building materials that could be affected by contaminants of concern include buried concrete and plastic water supply pipework. Concrete can be attacked by sulphates and other soluble metal salts. Plastic water pipework can be permeated by hydrocarbons or pesticides while metal pipework could be affected by electrical conductivity, redox potential and pH. There is a Low/Moderate risk to water supply pipework.

8.4 Required remediation measures

At this stage, no remediation options are recommended to address the identified potential contamination linkages (PCLs). These should be considered following further investigation. Notwithstanding the above, it would be prudent to make allowance in the project budget to provide some remediation measures as shown above (in Table 13) and as follows.

- Survey and removal by competent professionals of any asbestos containing materials (ACMs) within the building fabric during site clearance
- Excavation and disposal or treatment of contaminated subsoils (and groundwater) could be required if highly mobile/volatile/toxic contamination is found to be present in the subsoils or groundwater such as petroleum hydrocarbons from oil/fuel leaks or spills
- Cover systems in soft landscaped areas (for example, comprising at least 600mm thickness of imported clean soil) might be needed if some contamination is found to be present within near surface ground material

- Vapour resistant membrane in floors are another potentially required remediation measure – but might not be needed unless an unexpected quantity of volatile contamination is encountered
- Off-site removal of two existing spoil heaps by suitably authorised waste contractors
- Barrier pipework (e.g., Protecta-line™ or similar) will most probably need to be provided for water supply (from Anglian Water) pipework and fittings due to the site's history and the potential for made ground and hydrocarbon contamination
- Ground gas resistant membrane in floor slabs – might potentially be needed

All the above measures might or might not be needed and are subject to the findings of further investigation.

8.5 Proposed further investigation

A survey of the existing building fabric is required prior to or as part of demolition works to identify the presence of ACMs. The survey and assessment and any asbestos removal or alteration works need to be carried out by competent professionals.

Also, the following investigation into *in situ* ground contamination is proposed:

- Several sample holes should be carried out to investigate the nature and extent of made ground and potential contamination. At least six sample holes (say, 2m deep) are recommended with geochemical tests for contaminants of concern on samples of ground material (and groundwater)
- Some organic matter testing of subsoils and ground gas monitoring to assess the risk of harmful ground gas. At least three boreholes could be converted into monitoring wells. A couple of ground gas monitoring visits might be adequate subject to favourable results

Ground investigation works into potential contamination could be also used to investigate ground conditions to facilitate foundation and soakaway design.

8.6 Site management

8.6.1 Minimising risks to groundworkers and nearby (human) receptors

As discussed, groundworkers face potentially significant health risks from dealing with potential contaminants of concern within the made ground (e.g. within the existing factory) The contractor needs to address these risks in their construction risk assessments and method statements, e.g., by providing suitable PPE, welfare facilities, supervision and training.

Risks to members of the public and nearby residents (e.g. dust inhalation) and the wider environment must also be mitigated by the contractor's safe methods of working which must abide by relevant regulations such as the Control of Asbestos Regulations (2012).

8.6.2 *Reuse of site won material*

Only *in situ* clean natural soil materials should be automatically deemed suitable for reuse on site and only provided no elevated contamination is found or suspected.

Any excavated potentially contaminated made ground or grubbed up hardstanding will NOT be suitable for re-use at the site UNLESS it is covered by a suitable permit or waste exemption (e.g. a U1 or T5 exemption) or protocol (e.g. the WRAP Protocol or the CL:AIRE Code of Practice: Definition of Waste). Accordingly, it would be prudent to make budgetary allowance for the disposal of some excavated made ground off-site.

8.6.3 *Unforeseen contamination*

Any additional unforeseen contamination (for example, gross petroleum odours/staining or asbestos containing materials) encountered during the development of the site will need to be monitored and reported to the local authority. Work must be halted in any area of revealed potential contamination and the contamination investigated and assessed to the satisfaction of the local authority.

If unforeseen contamination is encountered, proposed remediation measures may require revision.

8.7 Water supply pipework

Based on available information, barrier piping will probably be needed for water supply. This typically comprises PE plastic pipework with a coated aluminium core liner such as Protecta-line™.

8.8 Gas protection measures

It is anticipated that no ground gas measures should be required. Nevertheless, if substantial quantities of volatile, vapour-producing (organic) contamination is encountered, vapour protection measures might be needed. Also, if shallow highly organic, peaty subsoils are present, some ground gas protection from carbon dioxide or methane might be needed.

9 Summary & Conclusions

9.1 Desktop information

9.1.1 *Proposed development*

The proposed development comprises the demolition of a redundant barn building and the erection of two residential two-storey properties with associated gardens, driveways and individual garages.

9.1.2 *Site description*

The site is land between 10 and 12 Risegate Road, Gosberton, PE11 4EY, around grid reference 521100,329790. It is about 70m by 30m in plan area.

The site comprises an existing barn building (partly roofed in possible asbestos sheets), a small, dilapidated former cow shelter and two stockpiles. The large steel barn occupies the majority of the southern part of the site (25m by 27m) with the rest of the site being covered by compacted stone.

The site is relatively flat and located at a low local elevation. Ground levels are estimated to be about 3m above Ordnance datum (AOD).

9.1.3 *Site History*

Summary of historical information:

- The existing barn was probably originally built in the 1960s and was extended in the 1990s and has possibly been used as a workshop
- Possible former farmyard with (on-site) – prior to 1950s
- Former possible bungalow (on-site) – late 1950s until 1990s
- Possible haulage yard for sewage removal wagons – 1990s until around 2010
- Vacant site with occasional use for storage of building materials – around 2010 to present
- Existing garage (10m west) – from early 1970s
- Existing Elm Tree Farm (40m west) – from early 1970s

9.1.4 *Geology, Hydrogeology and Hydrology*

Anticipated ground conditions based on published geological information are as shown below (in Table 14).

Table 14 (also Table 4): Anticipated ground conditions inferred from geology records

<i>Strata</i>	<i>Description</i>	<i>Thickness (m)</i>	<i>Depth to base (m begl)</i>
Made ground	Possible small thickness of made ground below building and hardstanding.	<1	<1
Tidal Flat Deposits – CLAY / SILT	Unconsolidated sediment, mainly mud and/or sand	8-9	8-9
Oxford Clay Formation - MUDSTONE	Silicate-mudstone, grey, generally smooth to slightly silty, with sporadic beds of argillaceous limestone nodules	50 – 70	58 – 79
All anticipated ground conditions are subject to confirmation with site works			

Hydrogeological information:

- The anticipated mudstone bedrock is classed as an Unproductive Aquifer
- The anticipated TFD clay drift is classed as an Unproductive Aquifer
- No nearby groundwater abstractions or groundwater Source Protection Zone (SPZ)

Hydrological information:

- Nearest identified surface water feature: Risegate Eau - drain/ditch (18m north)
- There are significant flooding issues at or adjacent to the site

9.1.5 Other environmental information

- There are no nearby historical Landfill Sites (within 1km)
- The site is not affected by radon. No protection measures required
- The site is in an area with a low historical bombing density

9.2 Contamination assessment***10.2.1 Initial conceptual site model (sources, pathways and receptors)***

The following potential sources of contamination were identified for the site.

- A. Made ground
- B. Existing building fabric
- C. Current land use: occasional building materials storage
- D. Previous land use: Farm yard
- E. Previous land use: haulage yard
- F. Previous land use: workshops
- G. Existing red diesel above ground storage tank (AST) in southwest part of the barn
- H. Historical WWII bombing
- I. Highly organic subsoils
- J. Existing garage (0m west) including UST (15m west)
- K. Farm c. 40m west

However, based on further analysis, two of the above sources (H and K) are not considered credible. Metals, PAHs, Asbestos, petroleum hydrocarbons, VOCs and SVOCs were identified as contaminants of concern

Considered contamination possible pathways include inhalation, ingestion, absorption and migration while receptors affected by contaminants might include humans, ecology, controlled waters and building materials.

9.2.2 Preliminary risk assessment (PRA)

A preliminary risk assessment identified seven potential contamination linkages (PCL1 to PCL7) with unacceptable risks, as summarised below (in Table 15). These linkages merit further consideration.

Table 15: Potential contamination linkages (PCLs)					
Ref.	Source	Pathway	Receptor	Risk rating	Possible solution
PCL1	1. Made ground 2. Existing building fabric 3. Current land use: occasional building materials storage 4. Previous land use: Farm yard 5. Previous land use: haulage yard 6. Previous land use: workshops 7. Existing red diesel above ground storage tank (AST) in southwest part of the barn 8. Existing garage (0m west) including UST (15m west) Metals, PAHs, Asbestos, Petroleum hydrocarbons, VOCs and SVOCs	Inhalation, ingestion, absorption	Future site users	Low / moderate	Soil cover systems in soft garden and landscaped areas and off-site removal of two existing spoil heaps
PCL2			Ground workers	Low / moderate	Safe working practices
PCL3			Demolition workers	Low / moderate	Survey and removal of any asbestos containing materials (ACMs) within the building fabric, as needed
PCL4		Inhalation of vapours	Future site users	Low / Moderate	Excavation and disposal of impacted soils (and vapour resistant membrane)
PCL5		Absorption	Flora and fauna (ecology)	Low / moderate	Soil cover systems in soft garden and landscaped areas
PCL6		Aggressive attack (by absorption)	Water supply pipe	Low / moderate	Barrier pipe for water supply
PCL7	9. Highly organic subsoils	Migration and inhalation/combustion	Future site users	Low / moderate	Gas resistant membrane in floors and subfloor ventilation

9.3 Required remediation measures

9.3.1 Risk mitigation

Further investigation is required to identify suitable remediation measures. Nevertheless, the following remediation measures might be needed:

- Survey and removal by competent professionals of any asbestos containing materials (ACMs) within the building fabric
- Excavation and disposal or treatment of petroleum impacted (and groundwater)
- Off-site removal of two existing small spoil heaps of stone and soil
- Cover systems in soft landscaped areas (for example, comprising at least 600mm thickness of imported clean soil)
- Vapour resistant membrane and/or carbon dioxide and methane resistant membrane in floors
- Barrier pipework (e.g., Protecta-line™ or similar) for water supply

9.3.2 Proposed further investigation works

- An asbestos survey prior to or as part of required removal building works
- Several sample holes to investigate the nature and extent of made ground and potential contamination (at least six) with geochemical tests for contaminants of concern
- Subsoil organic content testing with nominal ground gas monitoring within three well installations to assess gas risks

9.3.3 Site management

Risks to members of the public and nearby residents (e.g. dust inhalation) and the wider environment must be mitigated by the contractor's safe methods of working which must abide by relevant regulations such as the Control of Asbestos Regulations (2012).

The removal or isolation of any existing ACM building fabric will need to be carried out by competent demolition contractors following appropriate survey work to mitigate the risks of asbestos contamination.

No further UXO risk mitigation requirement is expected – other than a suitable strategy for encountering unexpected UXOs.

9.3.3 Ground gas protection

Any unforeseen contamination encountered during groundworks will need to be reported immediately to the local planning authority and adjacent works halted.

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Appendix A
Plans & Photographs

Risegate Road
RISEGATE ROAD

THE SITE

LEGEND

Former feature

Existing feature

Existing pile of stone and soil
(Recent site walkover)

Former steel container
(Photos dated 2018 to 2022)

Existing pile of soil
(Recent site walkover)

Former well
(Maps dated 1889)

Former building
(Maps dated 1889)

Existing barn
(Maps dated 1973 onwards)

Existing barn extension
(Maps & photos dated 1999 onwards)

Former shed building
(Photos dated 2007 to 2018)

Above-ground red diesel tank, possibly
present since 1990s

DISUSED WAGON
PARKING AND
TURNING AREA (AND
OCCASIONAL
STORAGE AREA)

Former possible bungalow
(Maps dated 1956 to 1973)

Former possible bungalow
(Maps dated 1987 to 1995)

Former portacabin (then steel container)
(Photos dated 1999 to 2018)

Former domestic septic tank (below-
ground) possibly from 1950s to 1990s

Existing dilapidated disused
open-sided cattle shelter, may
have been re-sized or re-built
(Maps dated 1889 onwards)

Former possible lean-to
(Maps dated 1973)

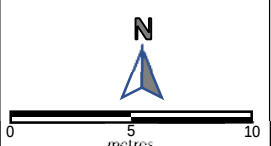
Former possible farm building
(Maps dated 1973)

Former building
(Maps dated 1973 to 1995)

HUMBERSIDE MATERIALS LABORATORY LIMITED

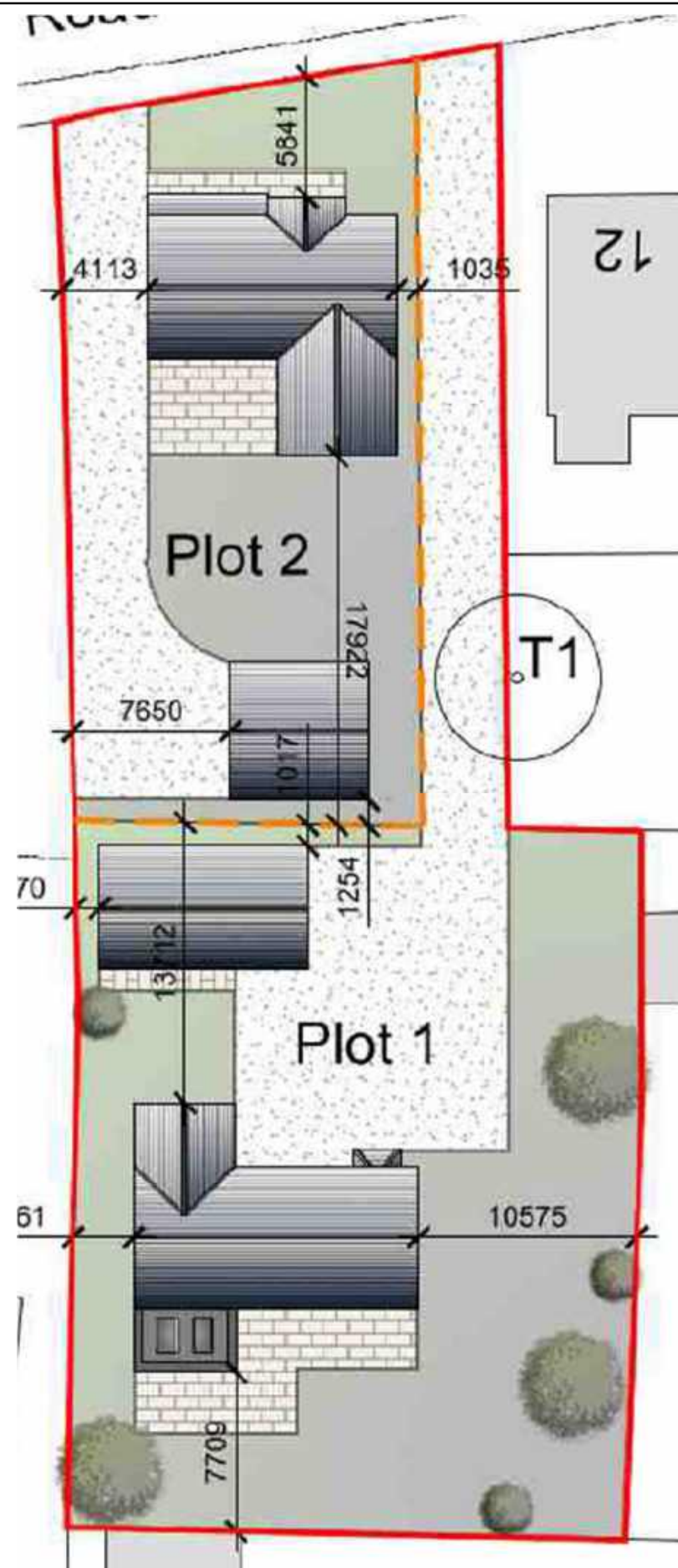
Atherton Way
Brigg
North Lincolnshire
DN20 8AR
Telephone: 01652 652753
www.humbersidematerialslab.co.uk

- Notes:
1. Do not scale
 2. All locations are approximate only
 3. JC Architectural Consultant drawing number 0412/23/03D, dated 14 Sept 2024
 4. Historical sources include anecdotal information from site owner as well as maps, aerial photos, streetviews and recent site walkover



Drawing Title: Existing & historical features plan
Site: Land between 10 and 12 Risegate Road, Gosberton
Client: JC Architectural Consultant
Project No.: 1488/6457/P/P1

Rev	Drawn by:	Details:	Date:
Drawn by: ED / RL Checked by: DD Scale: As shown Size: A3 Date: 12 Aug 2024			Drawing number: 1488-6457-P1-01 Revision: -



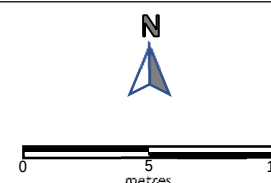
Rev	Drawn by:	Details:	Date:

HUMBERSIDE MATERIALS LABORATORY LIMITED

Atherton Way
Brigg
North Lincolnshire
DN20 8AR
Telephone: 01652 652753
www.humbersidematerialslab.co.uk



- Notes:
1. Do not scale
 2. All locations are approximate only
 3. Background image is JC Architectural Consultant drawing number 0412/23/03D, dated 14 Sept 2023



Drawing Title: Proposed development plan
Site: Land between 10-12 Risegate Road, Gsberton

Client: JC Architectural Consultant
Project No.: 1488/6457

Drawn by: ED
Checked by: DD
Scale: As shown
Size: A3
Date: 12 Aug 2024

Drawing number:
1488/6457-P1-02

Revision: -



Site location plan 1

Date copied: 06 Aug 2024

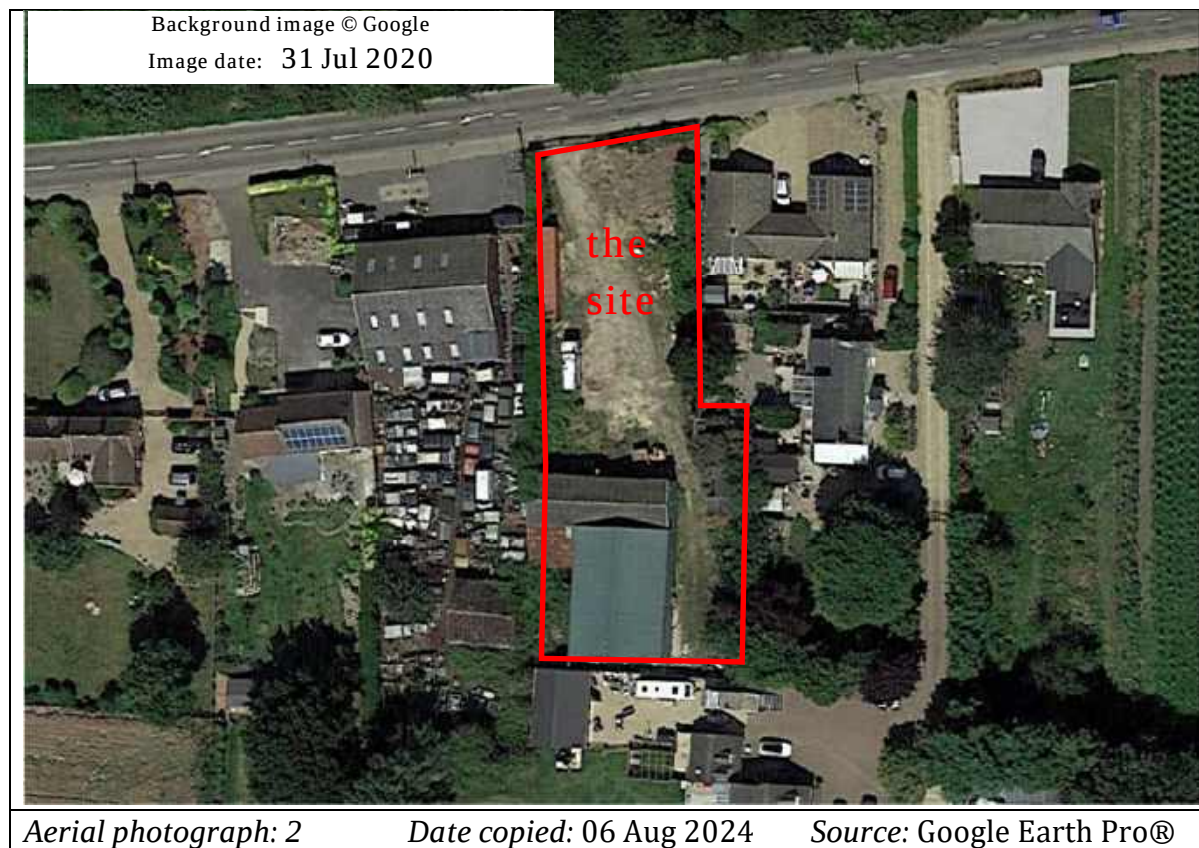
Source: openstreetmap.org



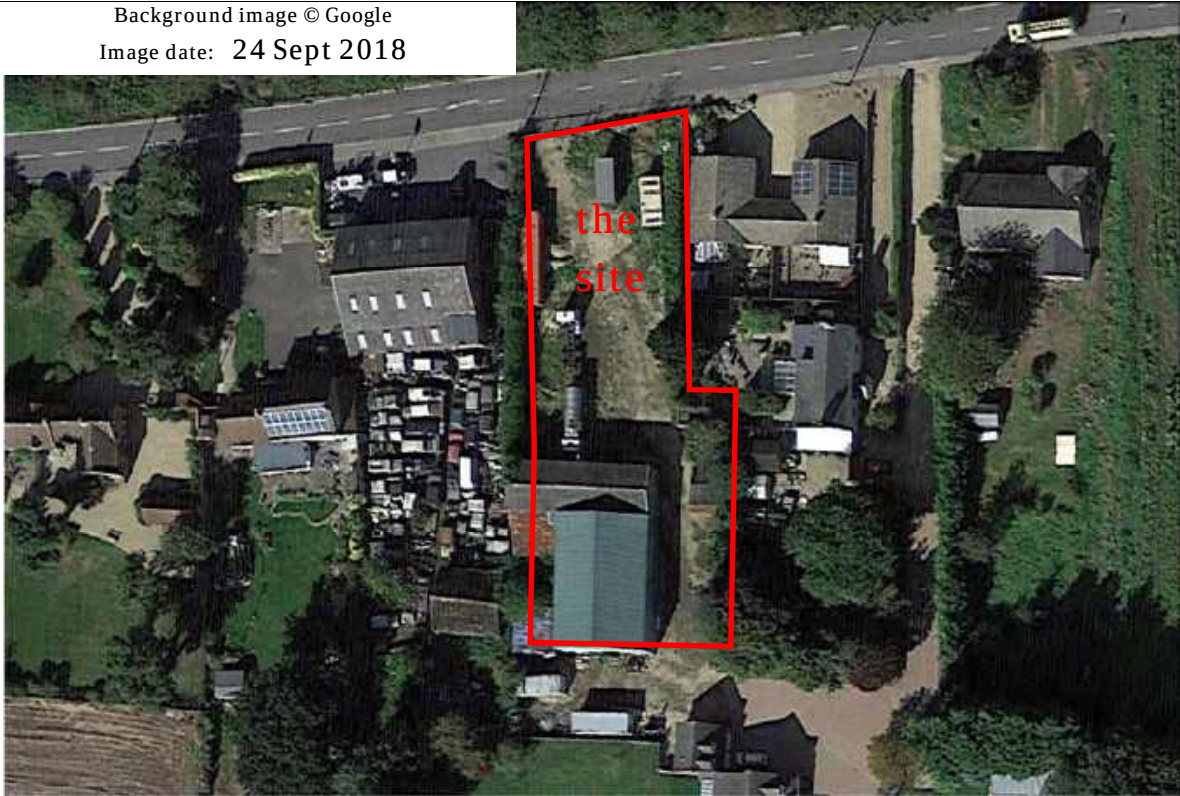
Site location plan 2

Date copied: 06 Aug 2024

Source: openstreetmap.org

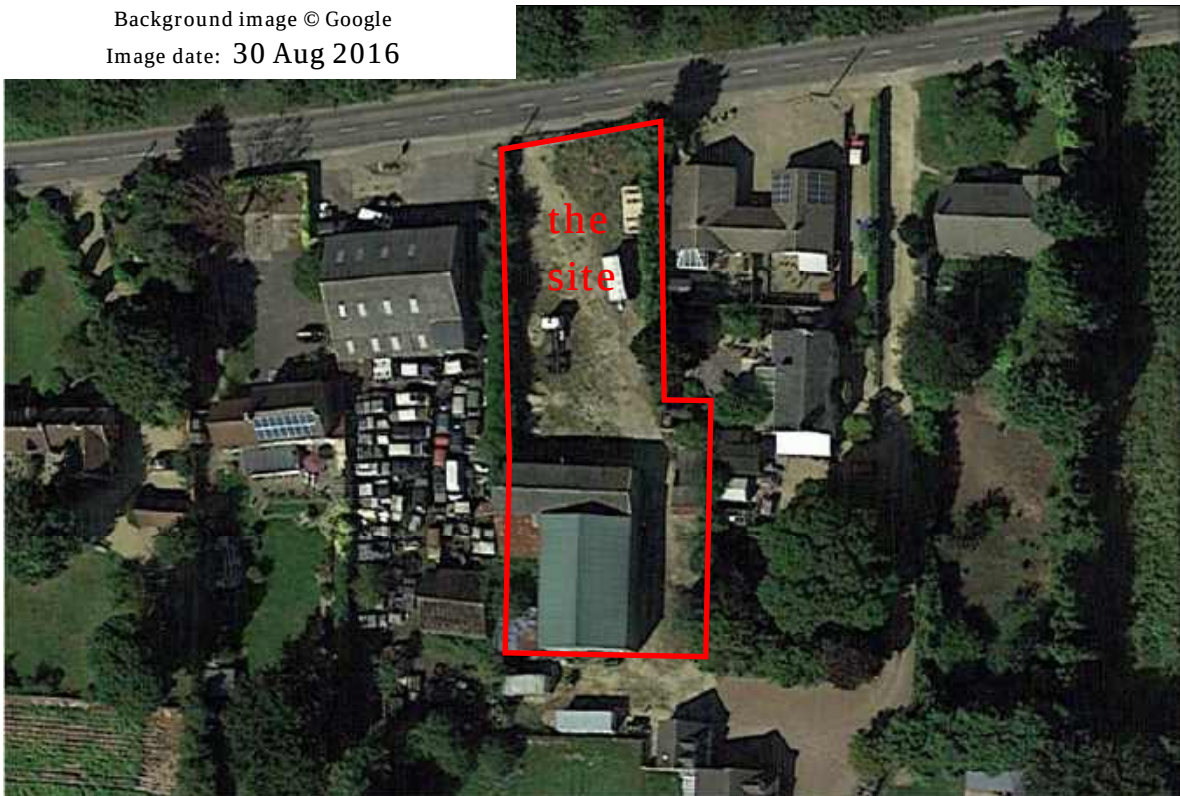


Background image © Google
Image date: 24 Sept 2018



Aerial photograph: 3 *Date copied: 06 Aug 2024* *Source: Google Earth Pro®*

Background image © Google
Image date: 30 Aug 2016



Aerial photograph: 4 *Date copied: 06 Aug 2024* *Source: Google Earth Pro®*

Background image © Getmapping pic
Image date: 2010



Aerial photograph: 5

Date copied: 06 Aug 2024

Source: Google Earth Pro®

Background image © Infoterra Ltd & Bluesky
Image date: 2007



Aerial photograph: 6

Date copied: 06 Aug 2024

Source: Google Earth Pro®

Background image © Infoterra Ltd & Bluesky

Image date: 11 Mar 2006



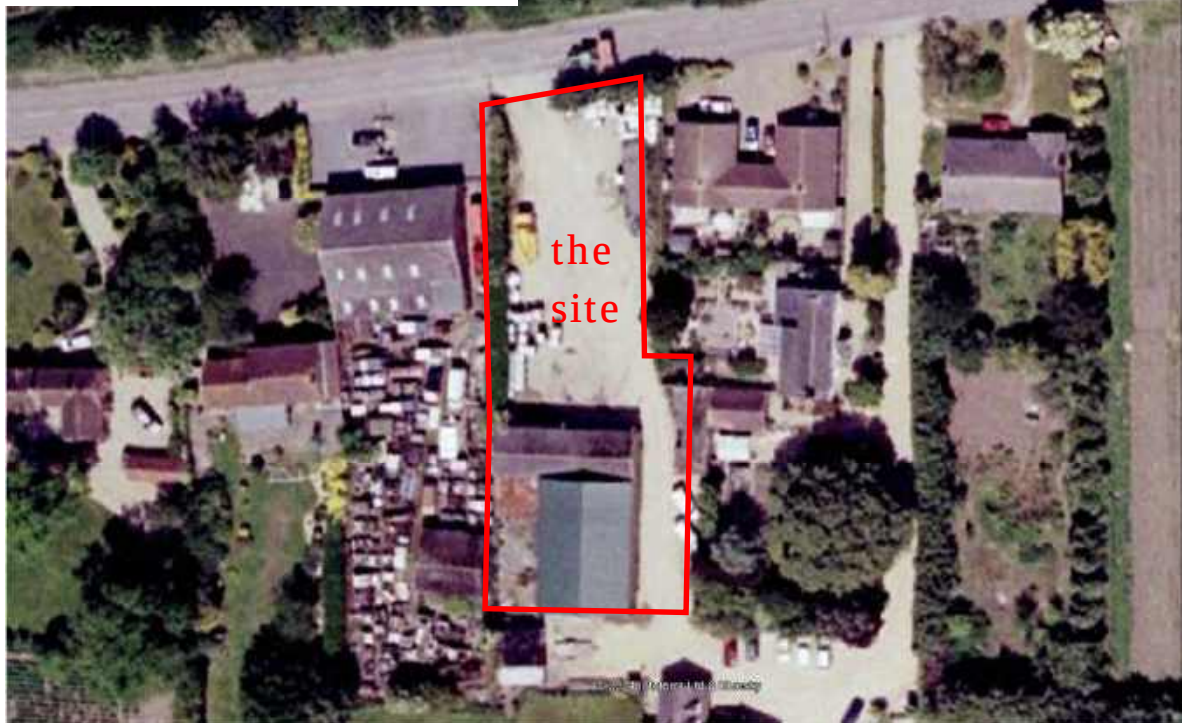
Aerial photograph: 7

Date copied: 06 Aug 2024

Source: Google Earth Pro®

Background image © Infoterra Ltd & Bluesky

Image date: 17 Apr 2005



Aerial photograph: 8

Date copied: 06 Aug 2024

Source: Google Earth Pro®





Background image © 2024 Google

Historical Photo: 2 *Date: May 2011*
Photo direction: Northeast
Description: Google Streetview of the site

Camera
position:



Background image © 2024 Google

Historical Photo: 3 *Date: Aug 2022*
Photo direction: North
Description: Google Streetview of the site

Car
position:





Background image © 2024 Google

Historical Photo: 4 *Date: Jun 2023*
Photo direction: North
Description: Google Streetview of the site

Can
position:



Site walkover photo: 1 *Date: 05 Aug 2024*
Photo direction: North
Description: View of existing grassed yard, scrub vegetation and stockpiles

Camera
position:





Site walkover photo: 2 *Date: 05 Aug 2024*
Photo direction: West
Description: View of side of barn, vehicle on site, trailer and grassy yard

Camera
position:



Site walkover photo: 3 *Date: 05 Aug 2024*
Photo direction: South
Description: View of dilapidated farm building (cattle shelter) and overgrown vegetation

Camera
position:





Site walkover photo: 4 *Date: 05 Aug 2024*
Photo direction: South
Description: View of side of barn, disused cattle shelter and surrounding overgrown vegetation

Camera
position:



Site walkover photo: 5 *Date: 05 Aug 2024*
Photo direction: Southwest
Description: View inside of barn with miscellaneous items such as sofas and bins

Camera
position:





Site walkover photo: 6 *Date: 05 Aug 2024*
Photo direction: South
Description: View of red diesel tank in southwestern corner of barn with external pump

Camera position:



Site walkover photo: 7 *Date: 05 Aug 2024*
Photo direction: North
Description: View of existing barn with possible asbestos containing roof panels

Camera position:





Site walkover photo: 8 *Date: 05 Aug 2024*
Photo direction: West
Description: View inside of barn and stored wares including furniture and carpentry tools

Camera
position:



Site walkover photo: 9 *Date: 05 Aug 2024*
Photo direction: South
Description: View of inside of barn with assorted wares, red diesel tank and possible asbestos roof

Camera
position:





Site walkover photo: 10 *Date: 05 Aug 2024*
Photo direction: North
Description: View of inside barn including assorted wares (furniture and carpentry tools)

Camera position:



Site walkover photo: 11 *Date: 05 Aug 2024*
Photo direction: Southwest
Description: View inside of barn with log supply, carpentry tools and area of overgrown garden

Camera position:





Site walkover photo: 12 *Date: 05 Aug 2024*
Photo direction: Southeast
Description: View of overgrown garden area behind barn

Camera position:



Site walkover photo: 13 *Date: 05 Aug 2024*
Photo direction: West
Description: View of parked vehicle, front of barn and overgrown vegetation in yard area

Camera position:





Site walkover photo: 14 *Date: 05 Aug 2024*
Photo direction: North
Description: View of grassed yard, stockpiles (materials from barn extension) and road signs

Camera position:



Site walkover photo: 15 *Date: 05 Aug 2024*
Photo direction: West
Description: View of vehicle, trailer and pile of ground material with some scrub vegetation

Camera position:





Site walkover photo: 16 *Date: 05 Aug 2024*
Photo direction: West
Description: View of disused carpentry area in barn with some small appliances

Camera
position:

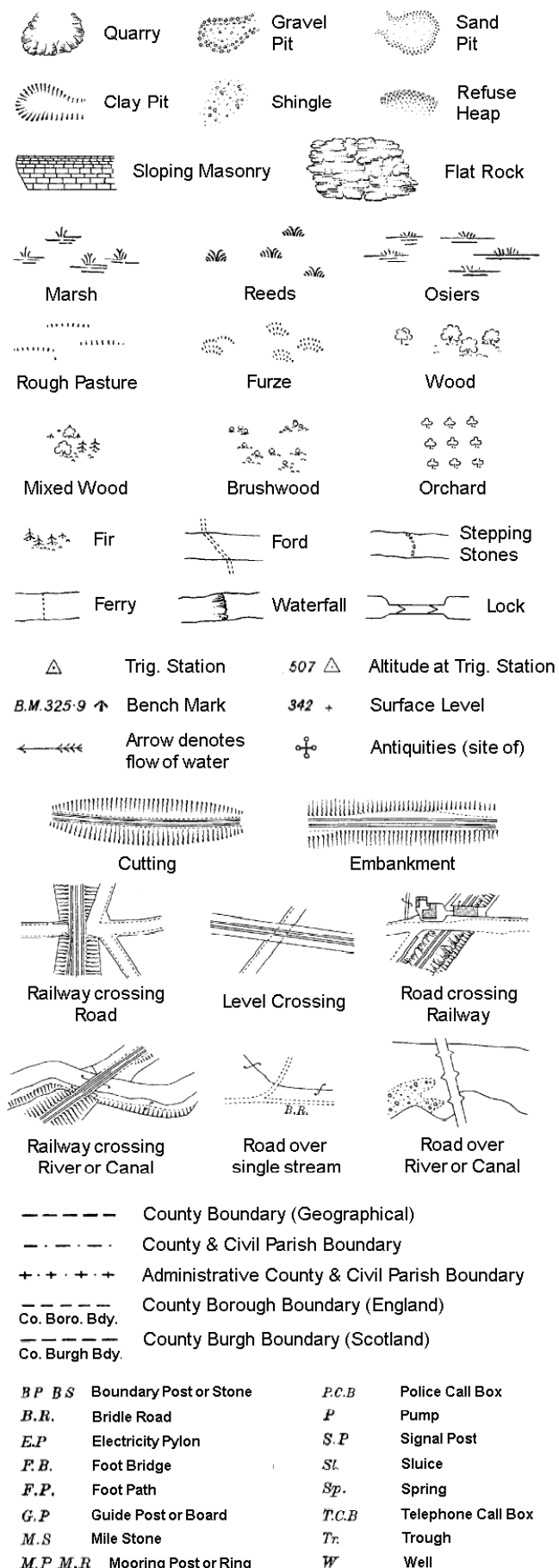


Appendix B

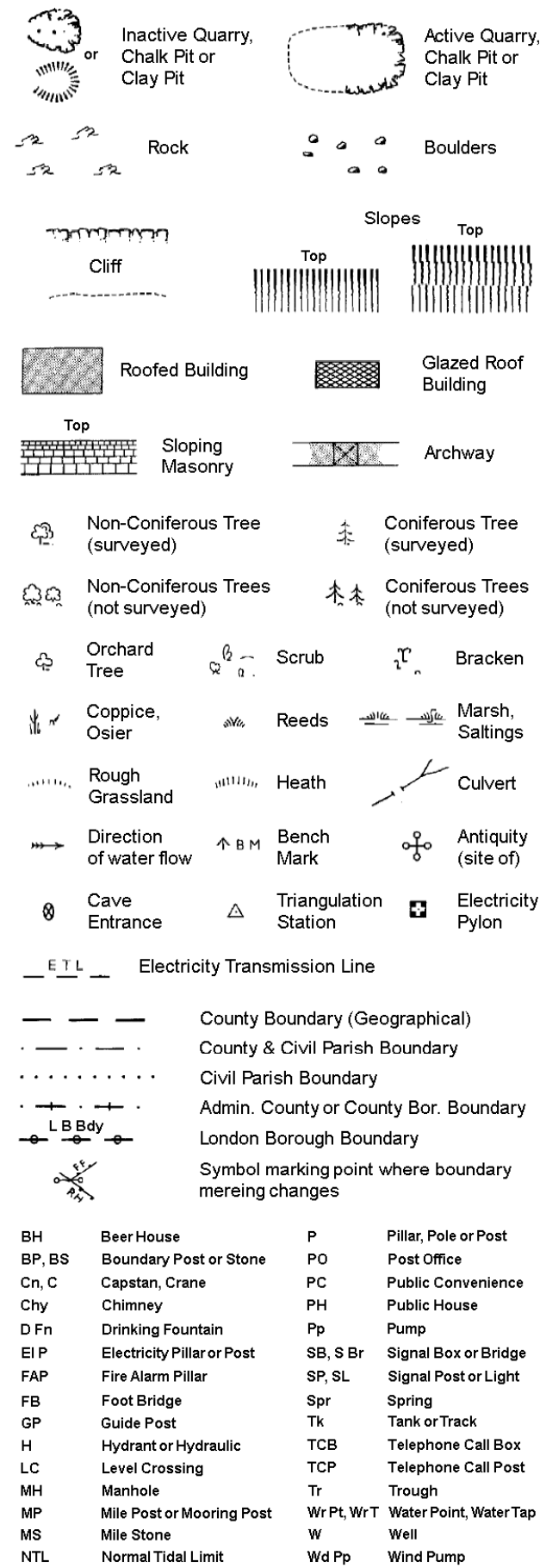
Historical Maps

Historical Mapping Legends

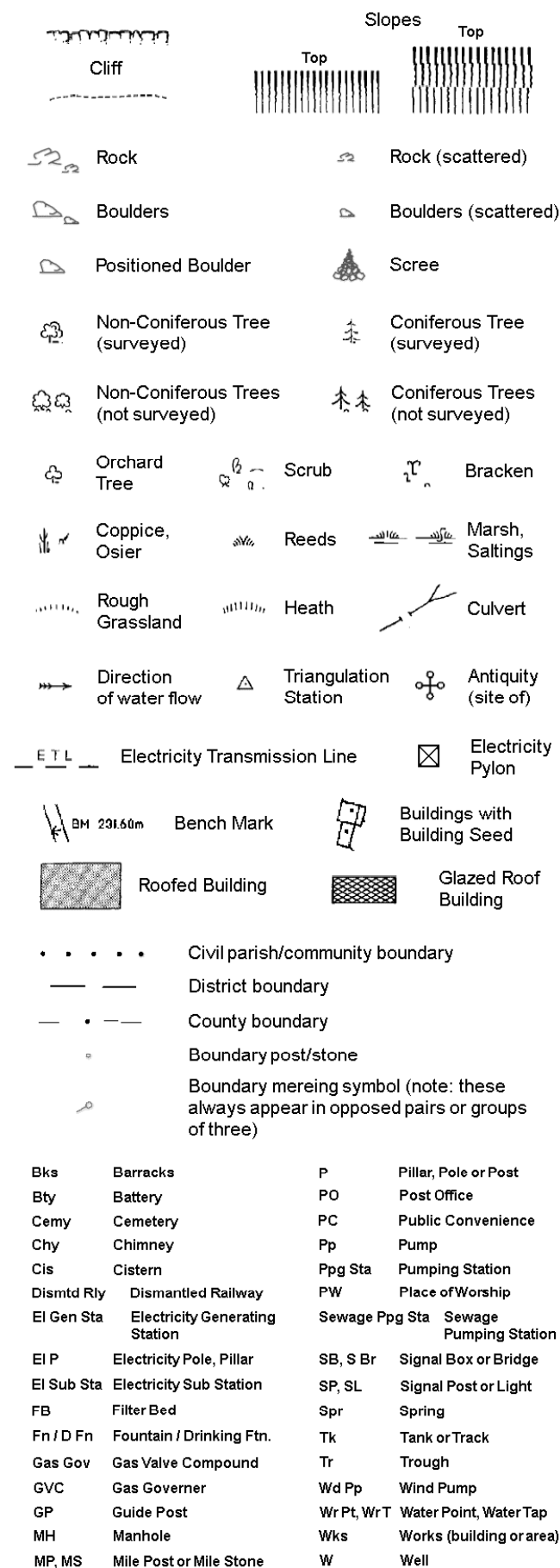
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



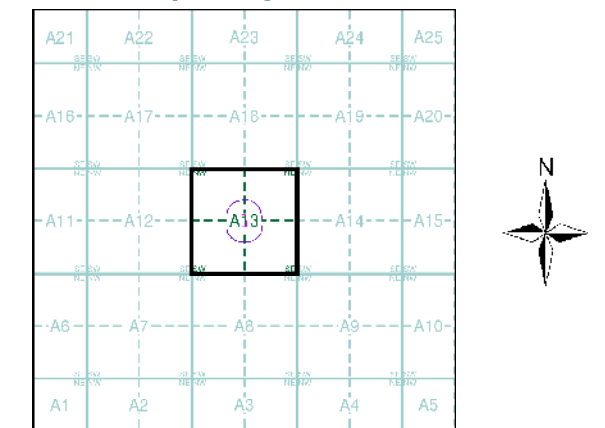
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1889	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1973	5
Supply of Unpublished Survey Information	1:2,500	1975	6
Additional SIMs	1:2,500	1987	7
Large-Scale National Grid Data	1:2,500	1995	8
Historical Aerial Photography	1:2,500	1999	9

Historical Map - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ



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



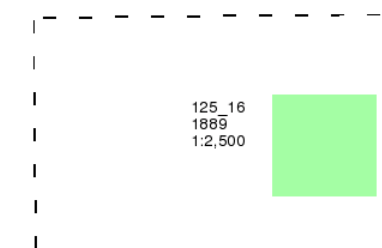
Lincolnshire

Published 1889

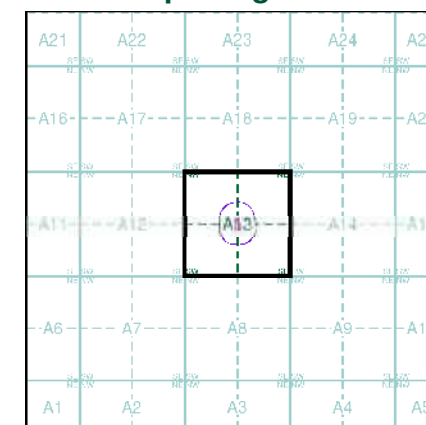
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

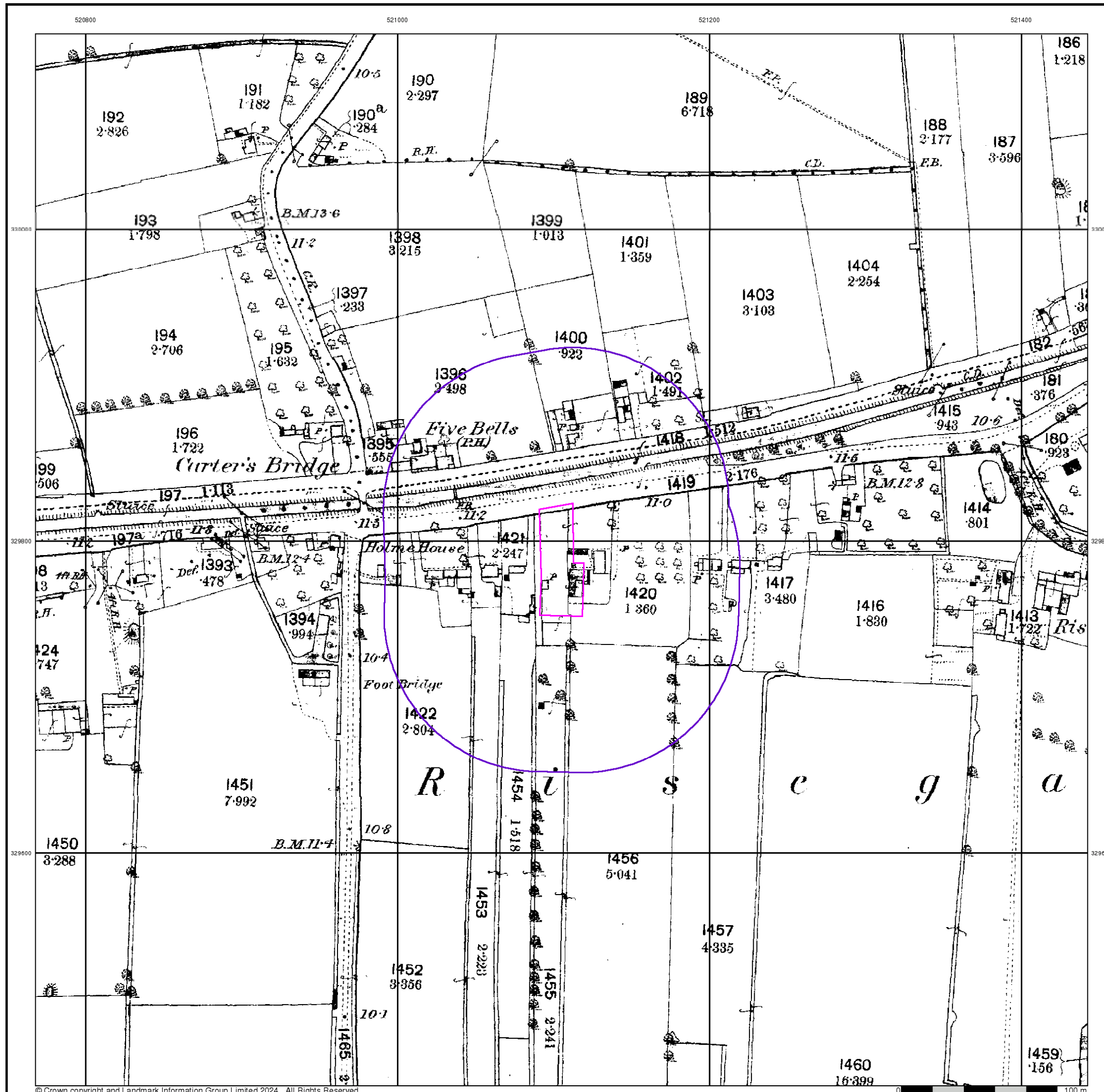
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Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

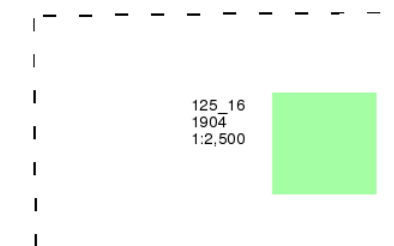
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



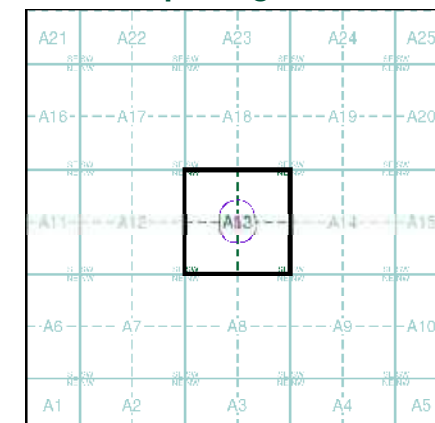


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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



Historical Map - Segment A13



Order Details

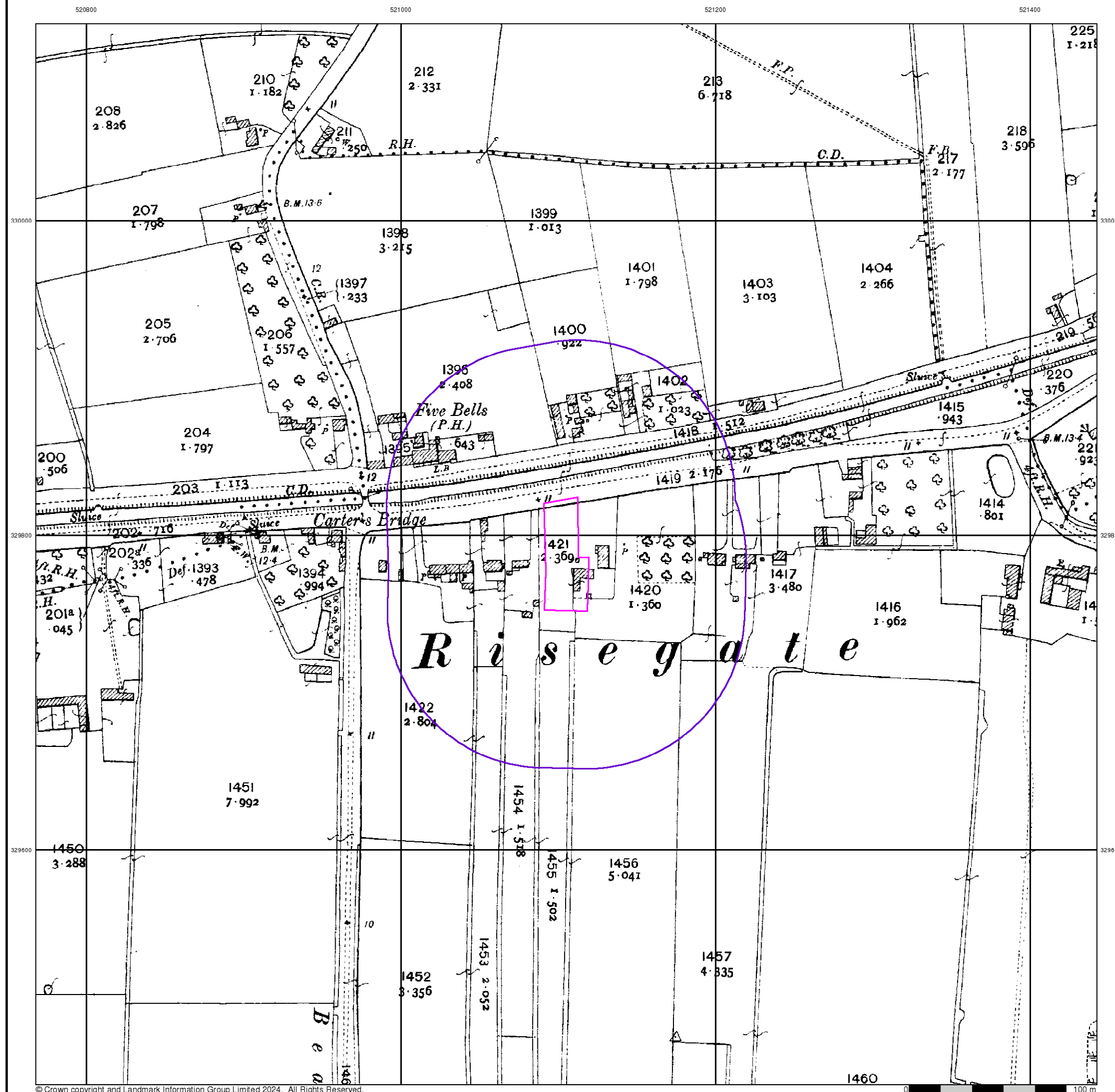
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Customer Ref:	ED-2024-07-30
National Grid Reference:	521100, 329790
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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





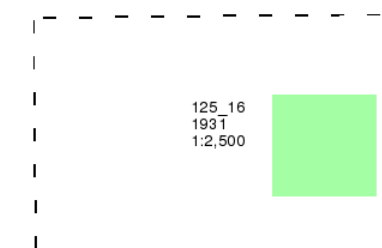
Lincolnshire

Published 1931

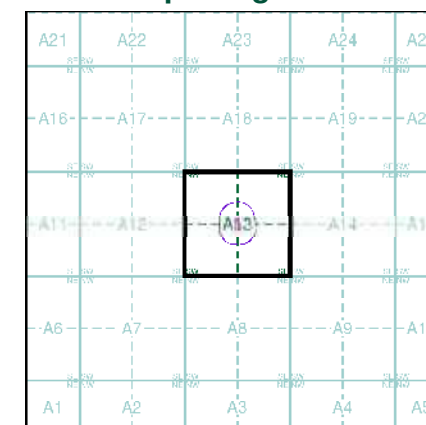
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

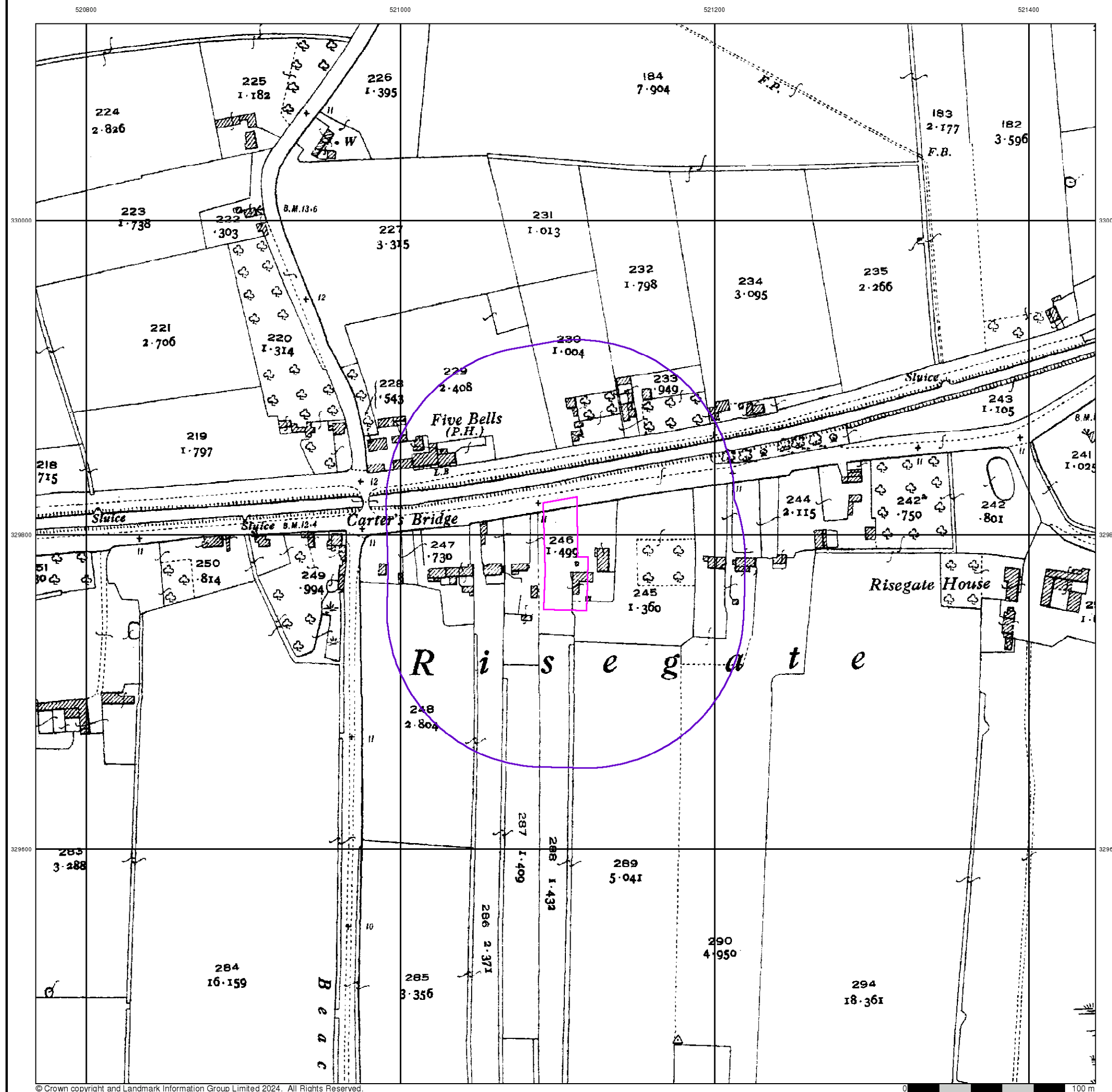
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1973

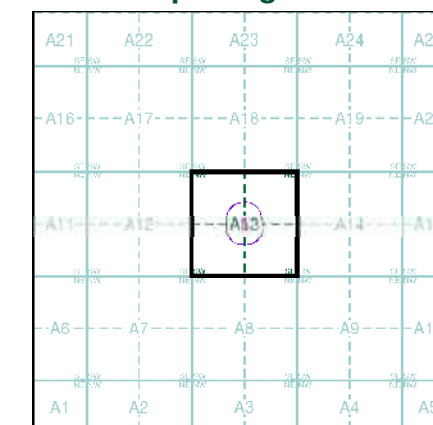
Source map scale - 1:2,500

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)

TF2030 1973 12,500	TF2130 1973 12,500
TF2029 1973 12,500	TF2129 1973 12,500

Historical Map - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

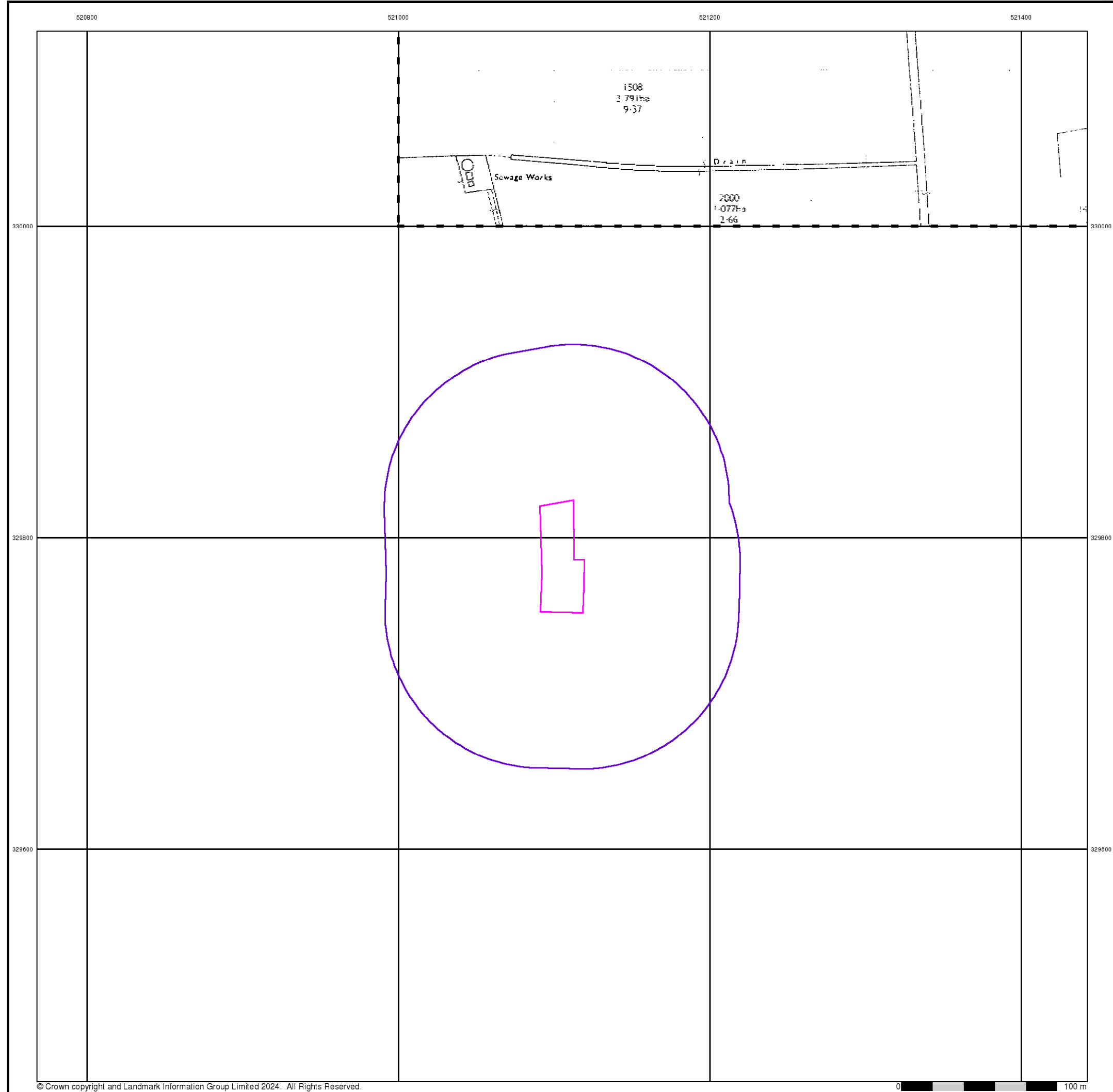
Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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





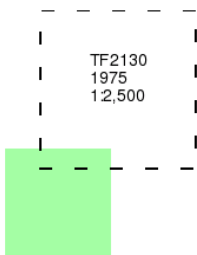
Supply of Unpublished Survey Information

Published 1975

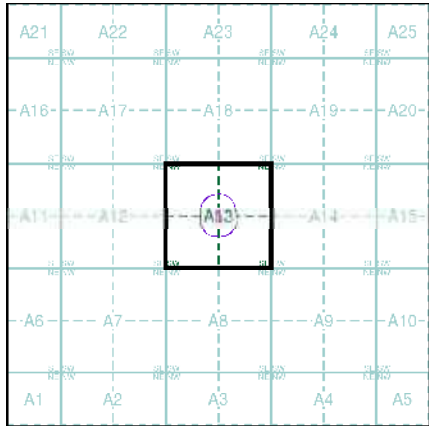
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

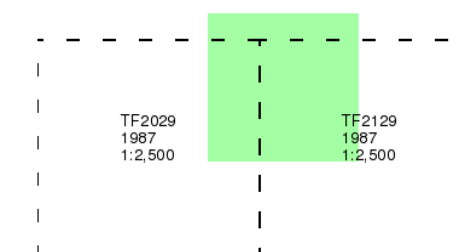


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

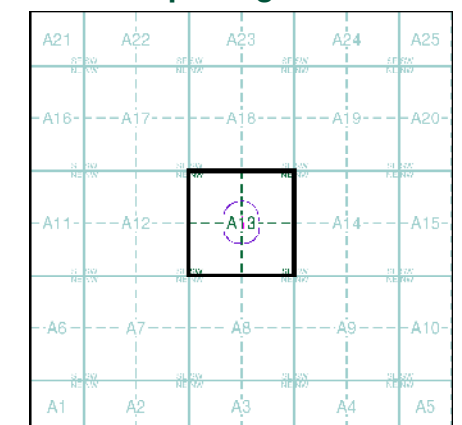


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	354284147_1_1
Customer Ref:	ED-2024-07-30
National Grid Reference:	521100, 329790
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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





Large-Scale National Grid Data

Published 1995

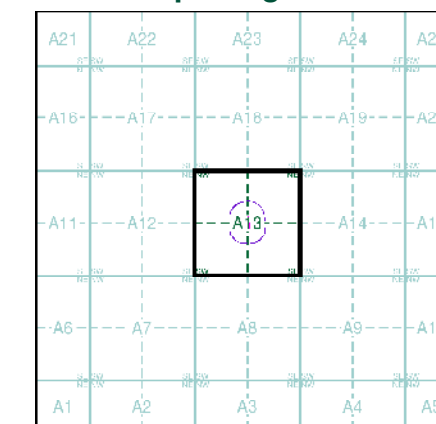
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TF2030 1995 1:2,500	TF2130 1995 1:2,500
TF2029 1995 1:2,500	TF2129 1995 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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



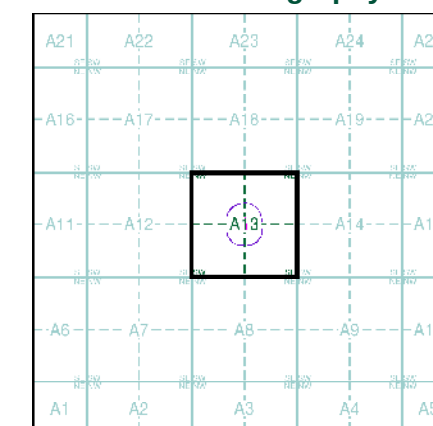


Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Bracken
	Heath		Rough Grassland
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

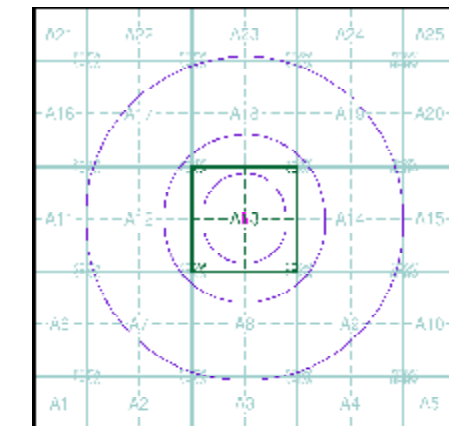
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887 - 1888	2
Lincolnshire	1:10,560	1906	3
Lincolnshire	1:10,560	1906	4
Lincolnshire	1:10,560	1931 - 1932	5
Lincolnshire	1:10,560	1951 - 1952	6
Ordnance Survey Plan	1:10,000	1956 - 1958	7
Ordnance Survey Plan	1:10,000	1975 - 1977	8
Ordnance Survey Plan	1:10,000	1985	9
Ordnance Survey Plan	1:10,000	1990	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2024	13

Historical Map - Slice A



Order Details

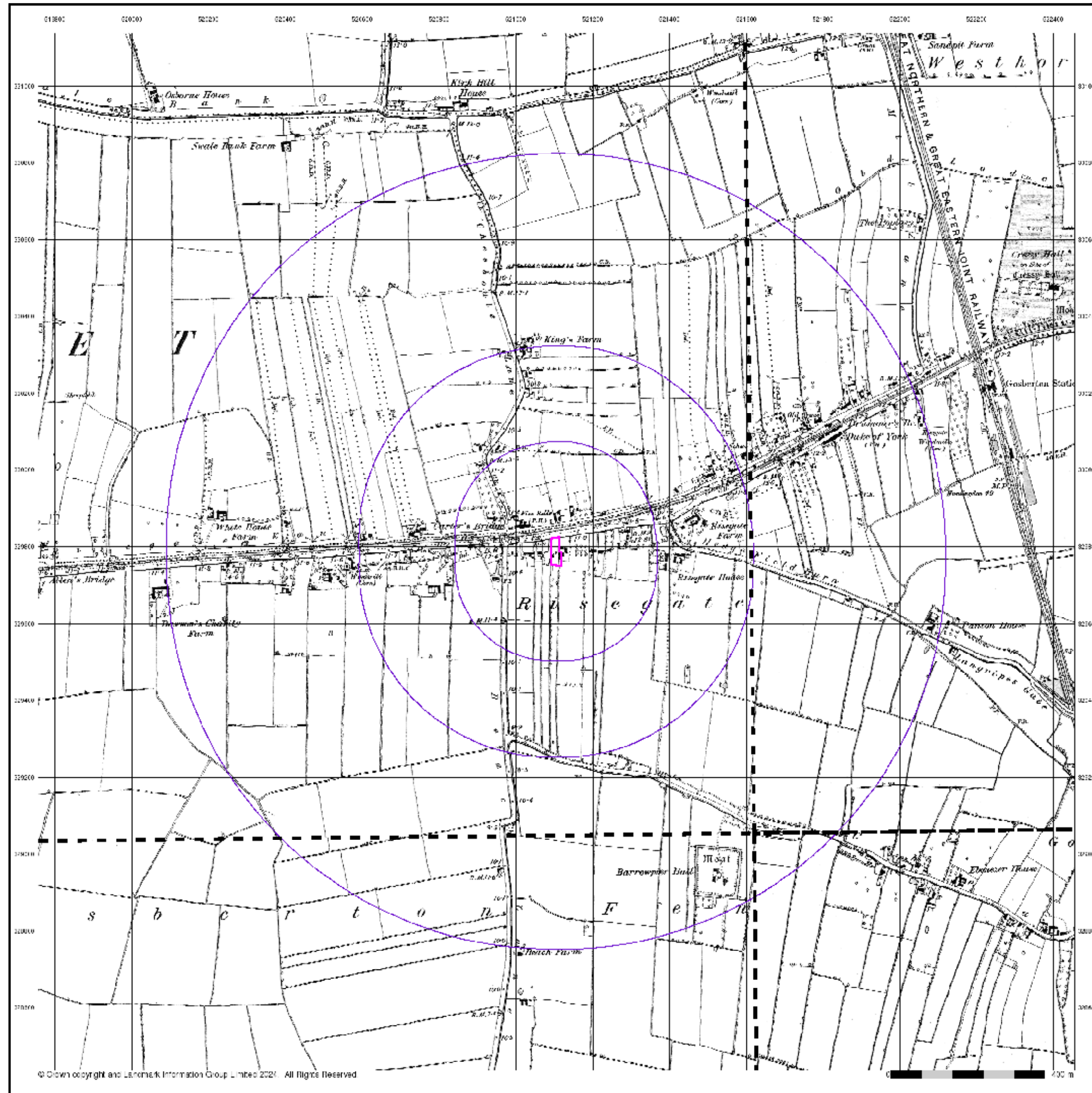
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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



Lincolnshire

Published 1887 - 1888

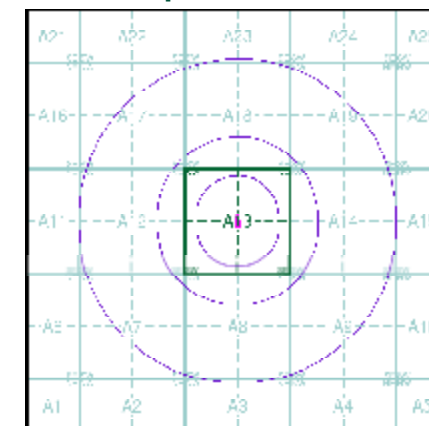
Source map scale - 1:10,560

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)

126SE 1885 1:10,560	126SW 1887 1:10,560
133NE 1887 1:10,560	134NW 1887 1:10,560

Historical Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

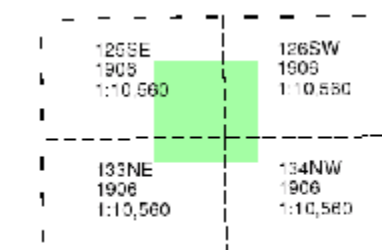
Landmark
INFORMATION GROUP

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

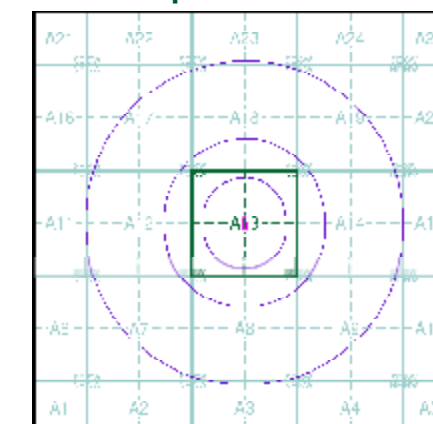


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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:	354284147_1_1
Customer Ref:	ED-2024-07-30
National Grid Reference:	521100, 329790
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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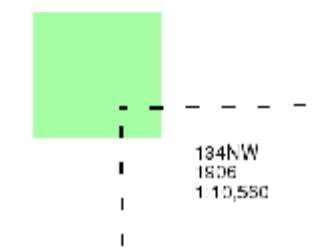
Lincolnshire

Published 1906

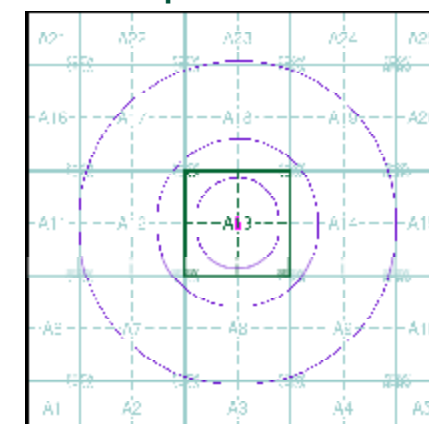
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

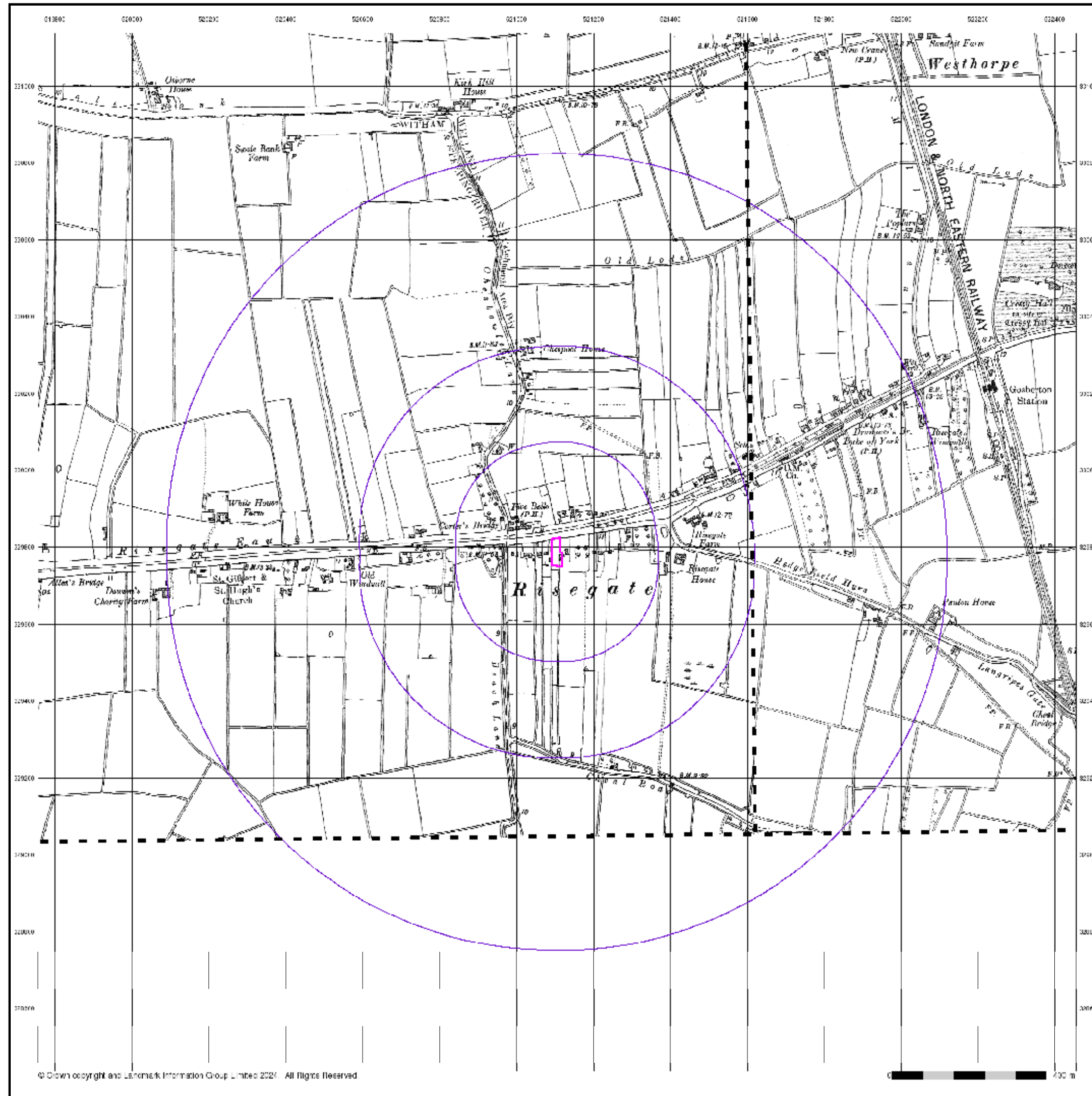
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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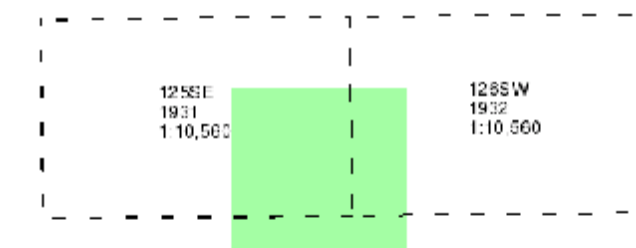
Lincolnshire

Published 1931 - 1932

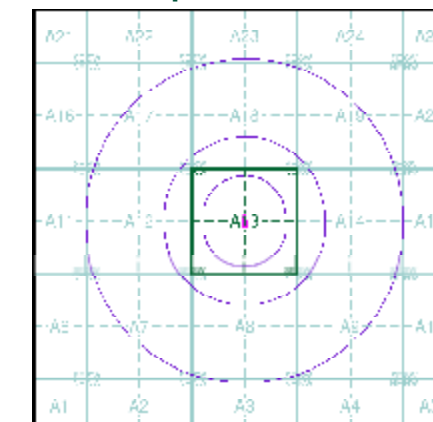
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

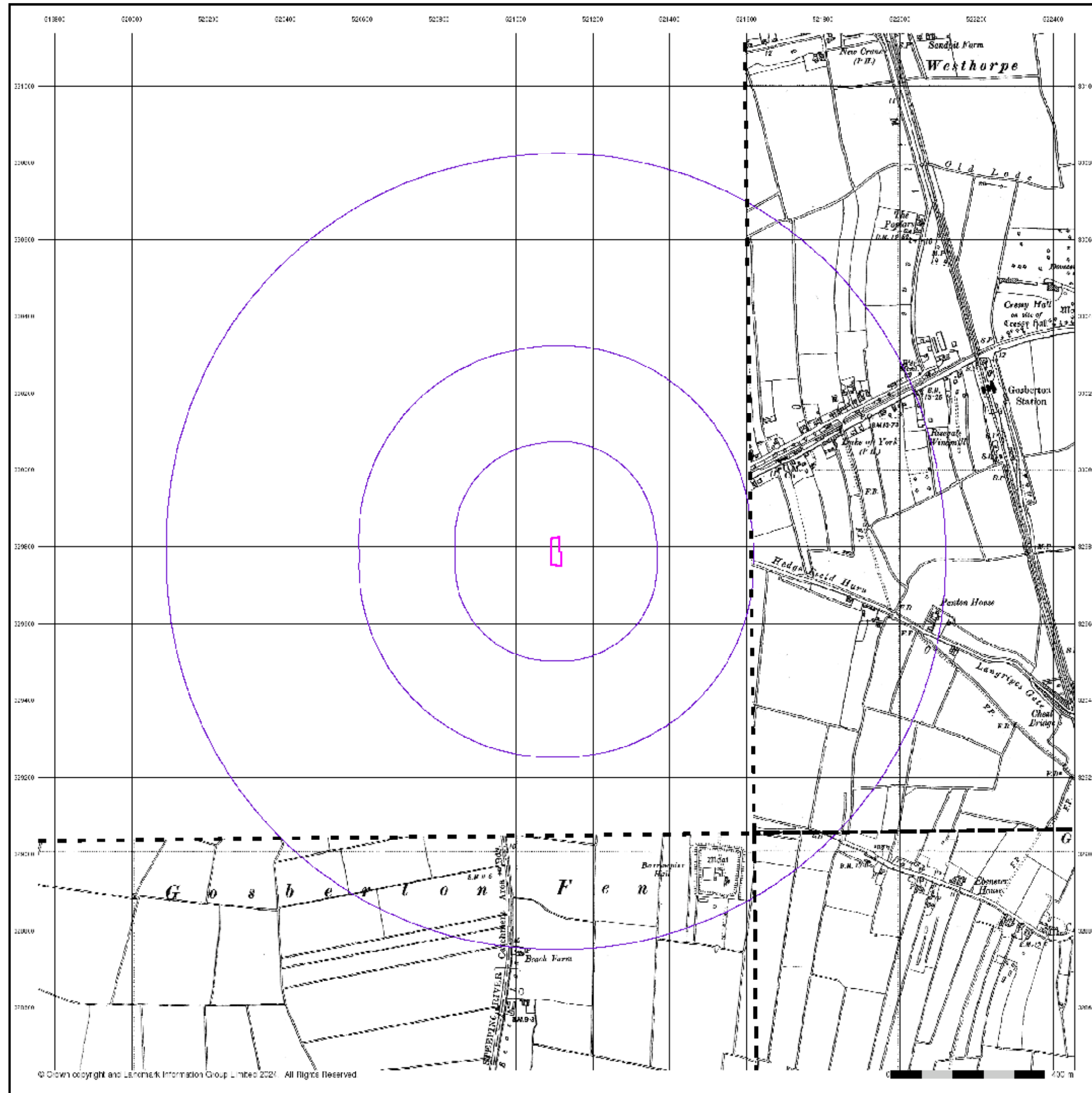
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

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SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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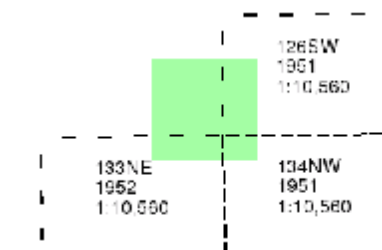
Lincolnshire

Published 1951 - 1952

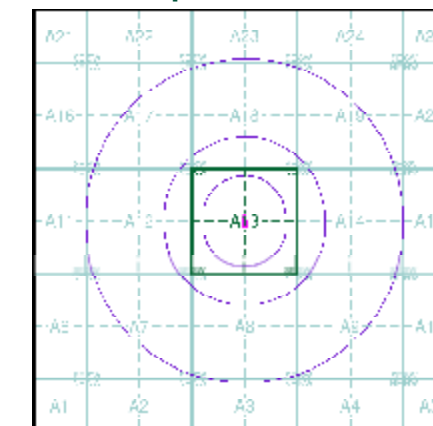
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

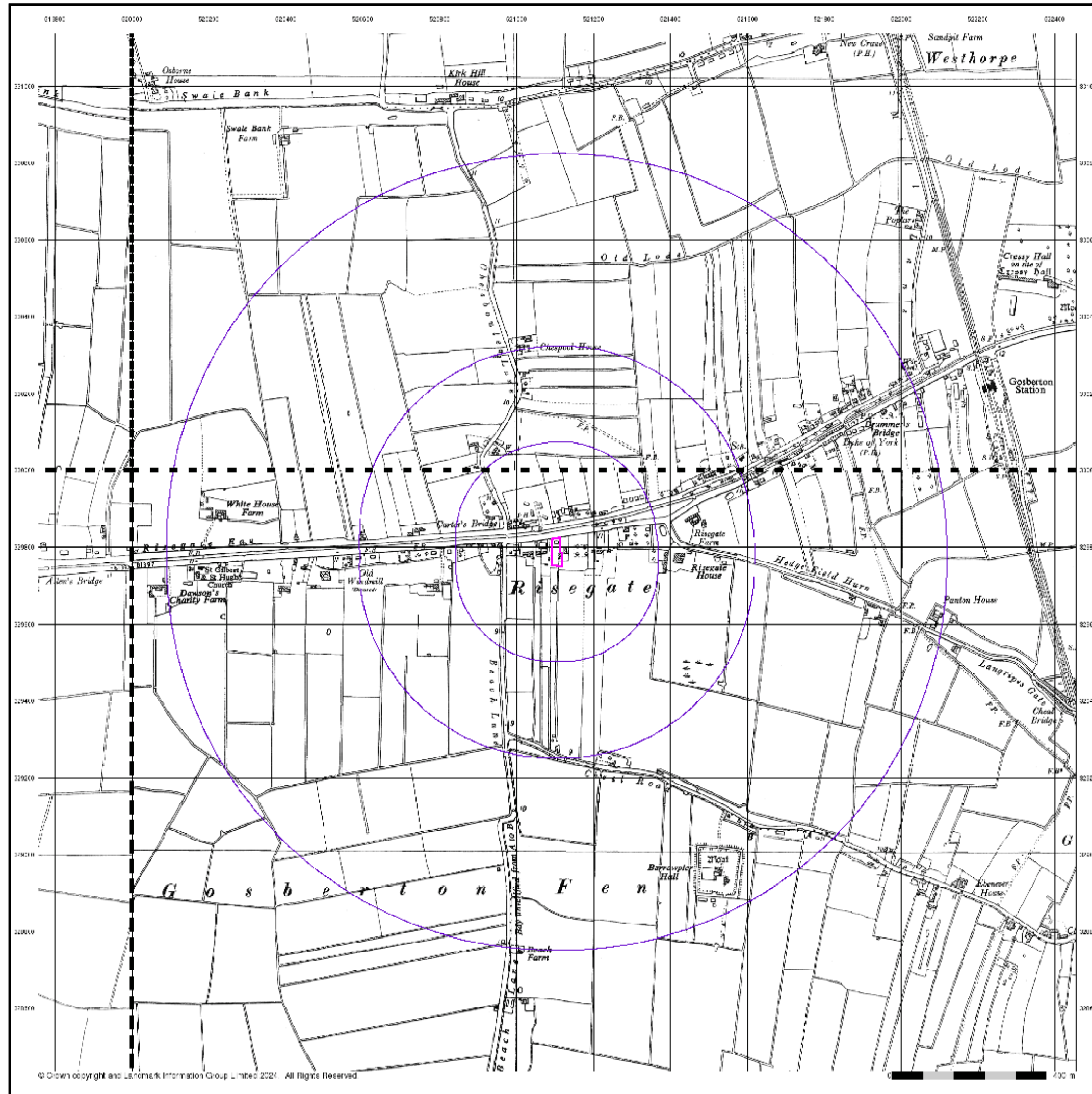
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ



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Ordnance Survey Plan

Published 1956 - 1958

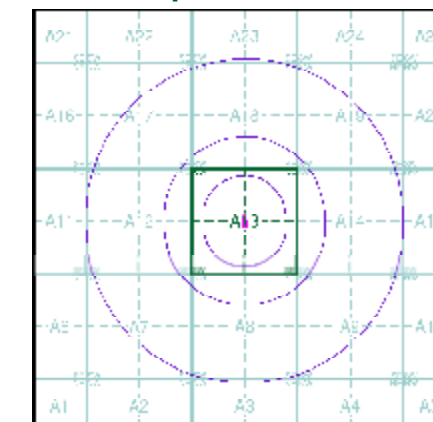
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TF18SE	TF23SW
1956	1956
1:10,560	1:10,560
TF12NE	TF22NW
1958	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

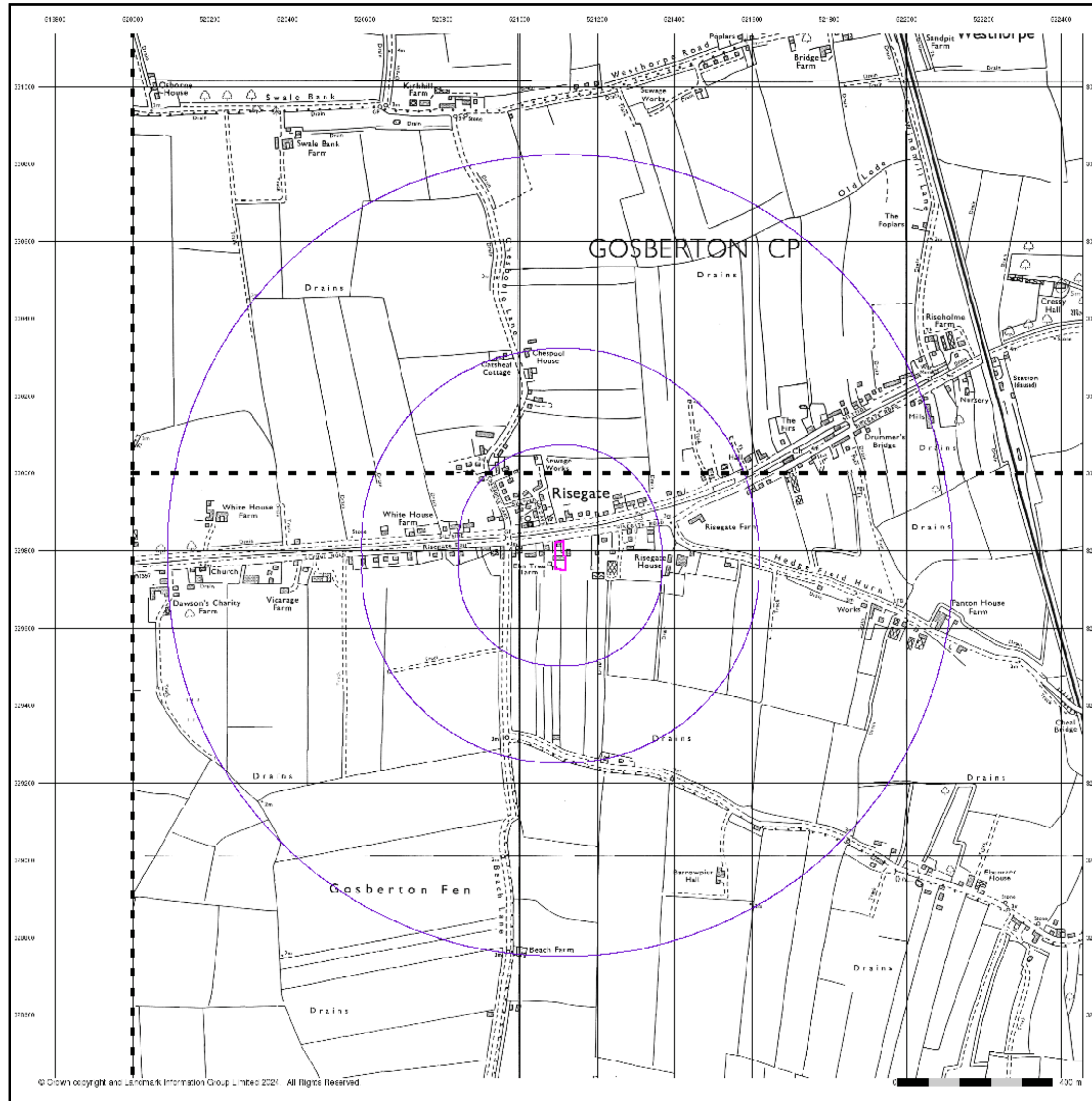
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
 INFORMATION GROUP

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



Ordnance Survey Plan

Published 1975 - 1977

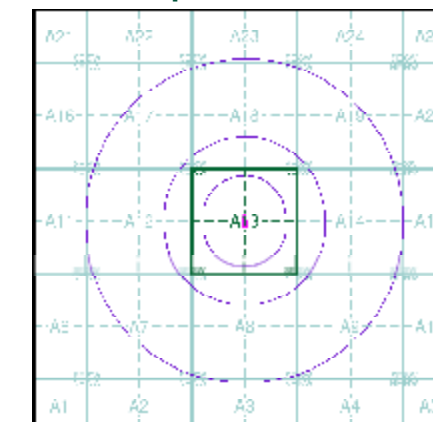
Source map scale - 1:10,000

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)

TF28SW	1977	1:10,000
TF28NW	1975	1:10,000

Historical Map - Slice A



Order Details

Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1985

Source map scale - 1:10,000

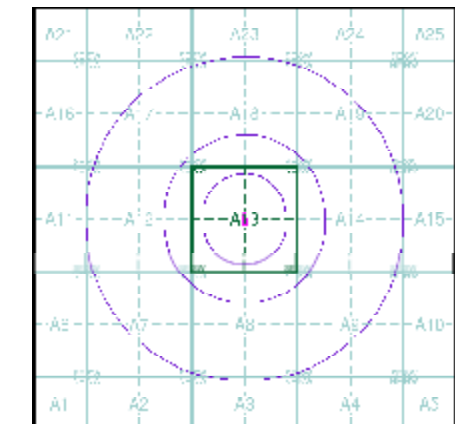
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

TF 35E
1985
1:10,000

TF 2NE
1985
1:10,000

Historical Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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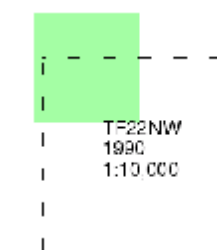
Ordnance Survey Plan

Published 1990

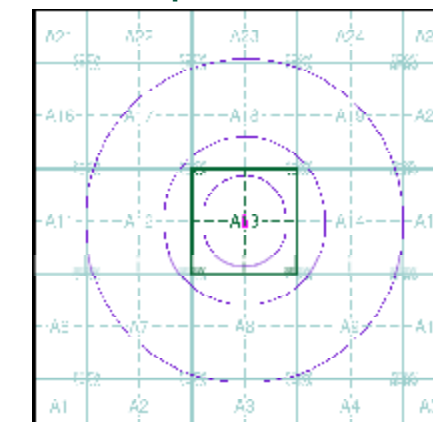
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

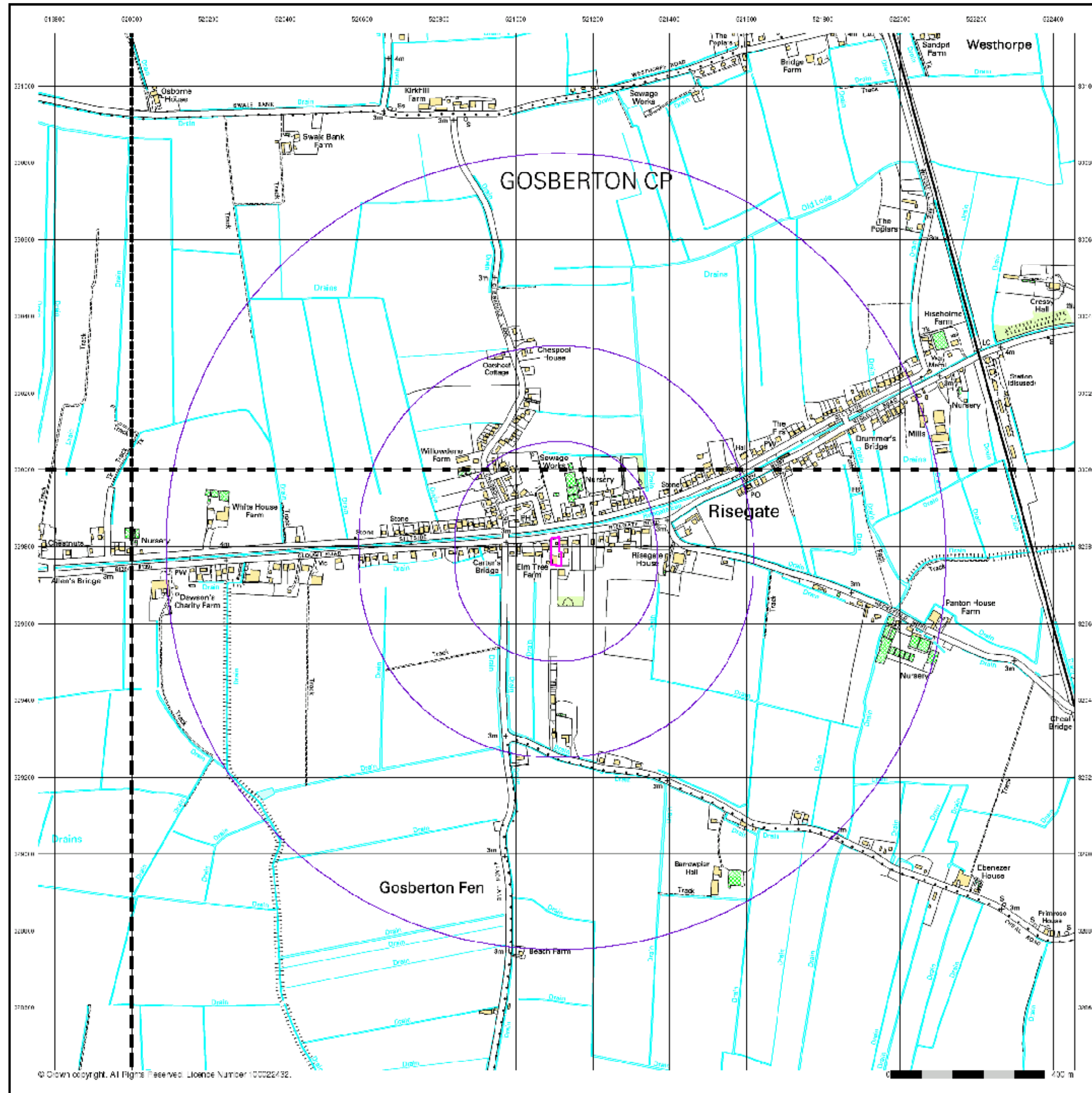
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Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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



10k Raster Mapping

Published 2000

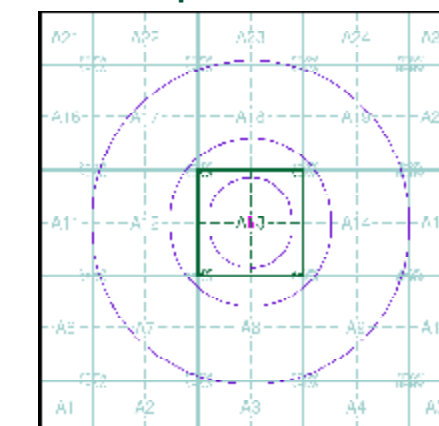
Source map scale - 1:10,000

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)

TF13SE	TF23SW
2000	2000
1:10,000	1:10,000
TF12NE	TF22NW
2000	2000
1:10,000	1:10,000

Historical Map - Slice A



Order Details

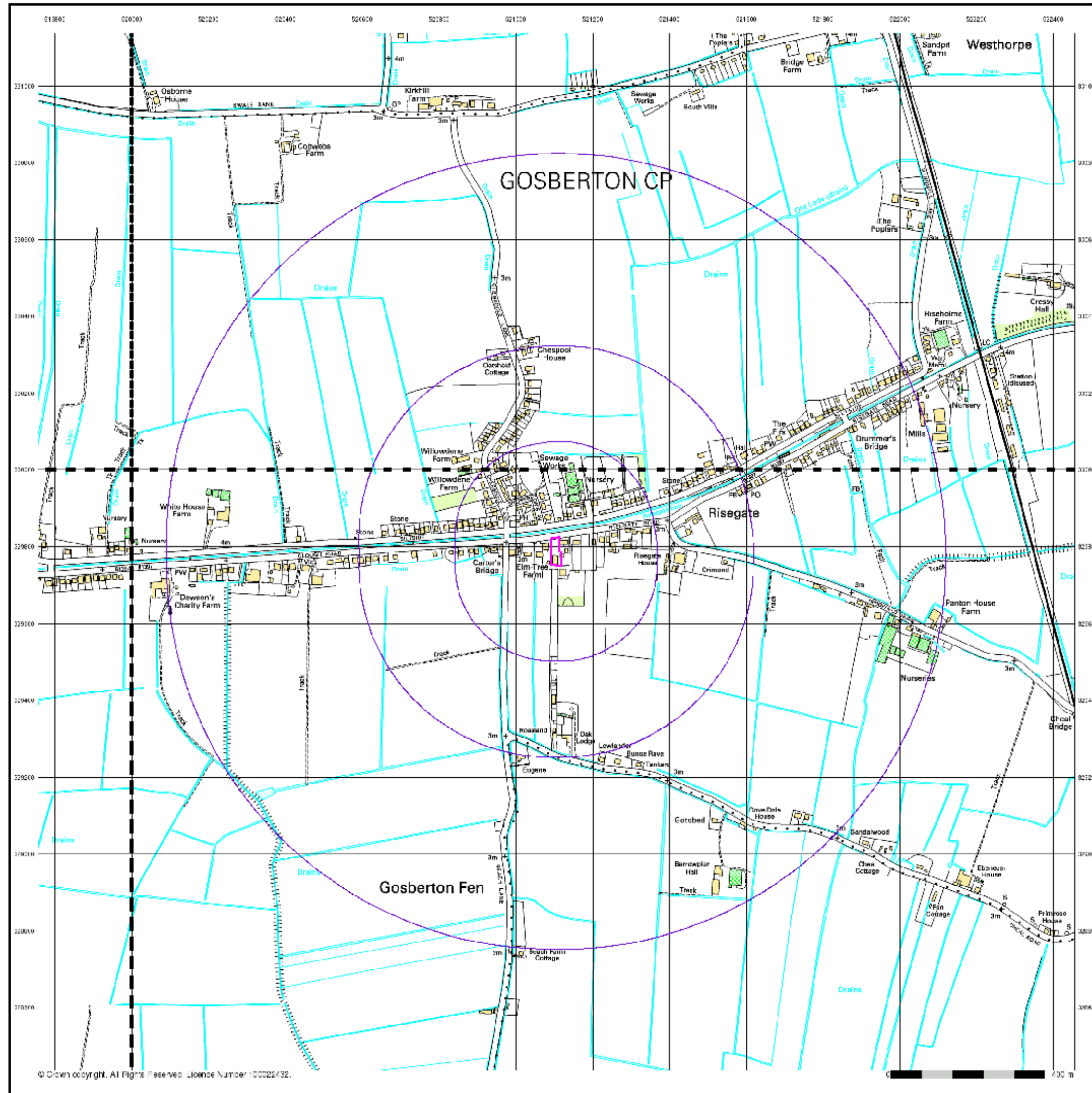
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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



10k Raster Mapping

Published 2006

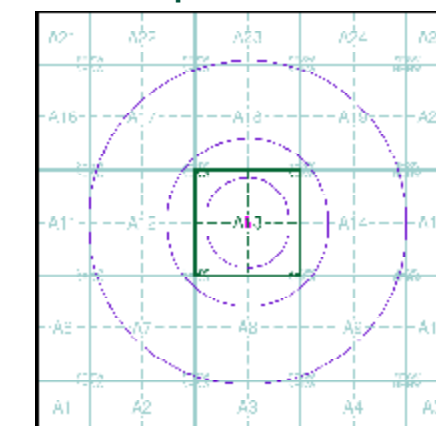
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TF13SE	TF23SW
2006	2006
1:10,000	1:10,000
TF12NE	TF22NW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

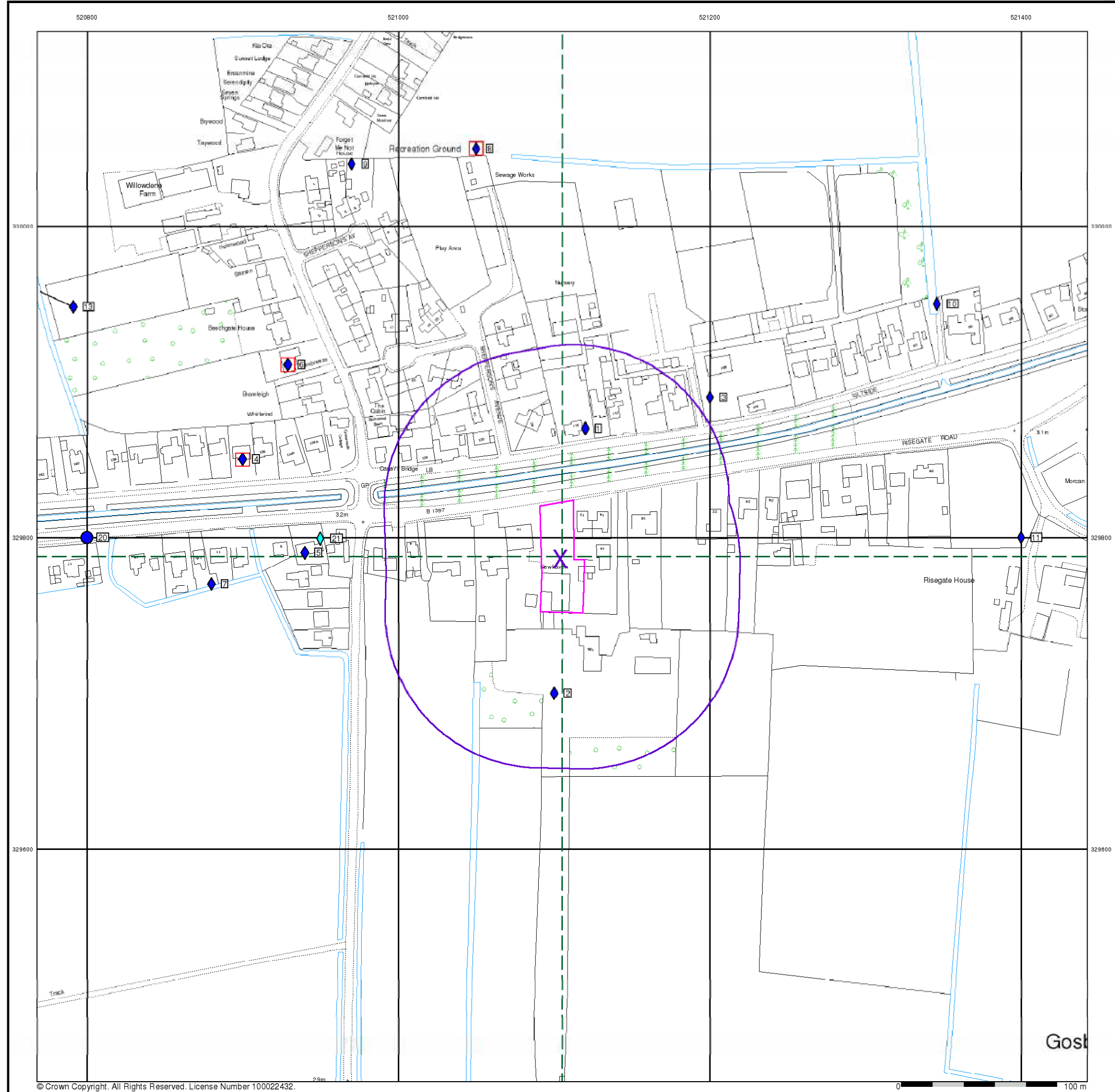
Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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

Appendix C
Environmental Data



General

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

Agency and Hydrological

- Contaminated Land Register Entry or 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
- 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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

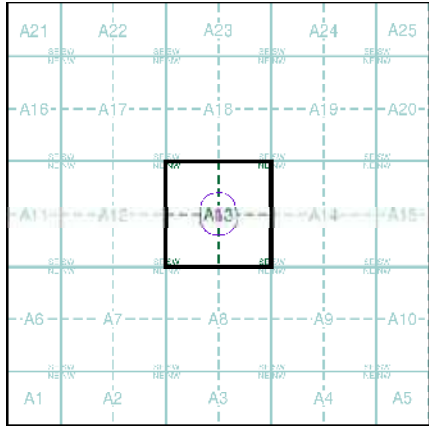
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Plot Buffer (m): 100

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ



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



General

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

Agency and Hydrological

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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

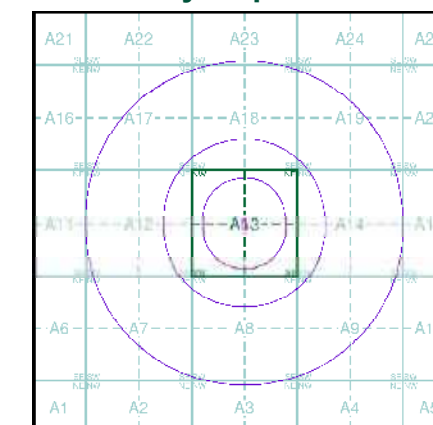
Geological

- BGS Recorded Mineral Site

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site (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

Site Sensitivity Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
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Industrial Land Use Map

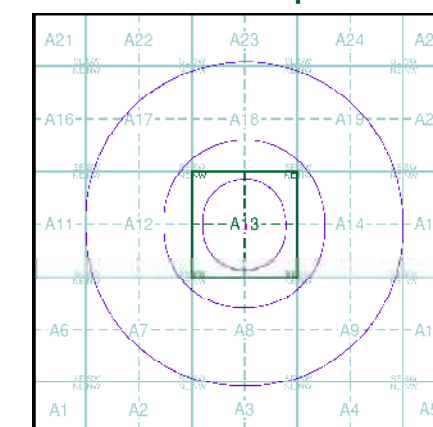
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
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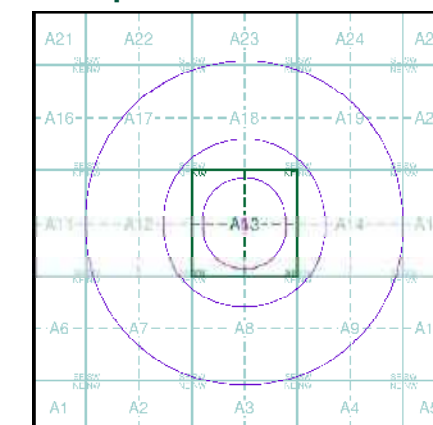
General

- 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: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
SPALDING, PE11 4EZ



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General

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

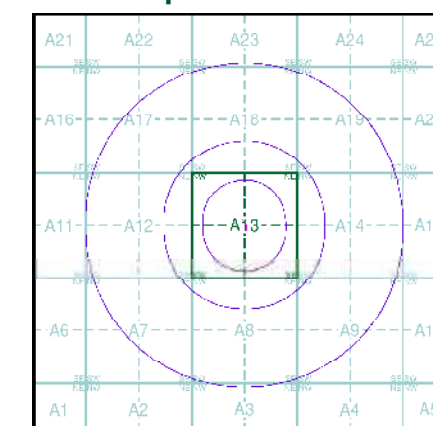
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ



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Web: www.envirocheck.co.uk



General

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

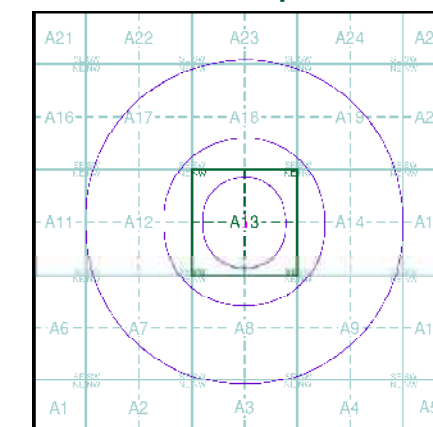
OS Water Network Data

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

Contours (height in meters)

- Standard Contour: 95, 100, 95
- Master Contour: 95, 100, 95
- Spot Height: 167.3
- MLW: Mean Low Water
- MHW: Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton,
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General

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

Risk of Flooding from Surface Water

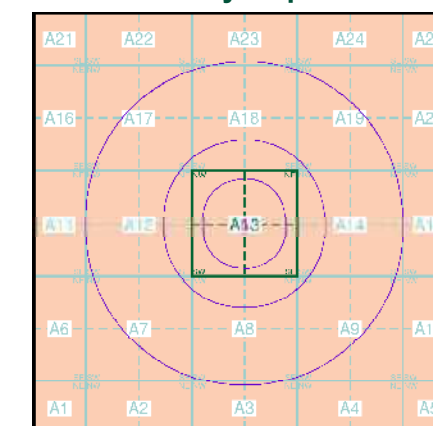
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

E/NRW Suitability Map - Slice A



Order Details

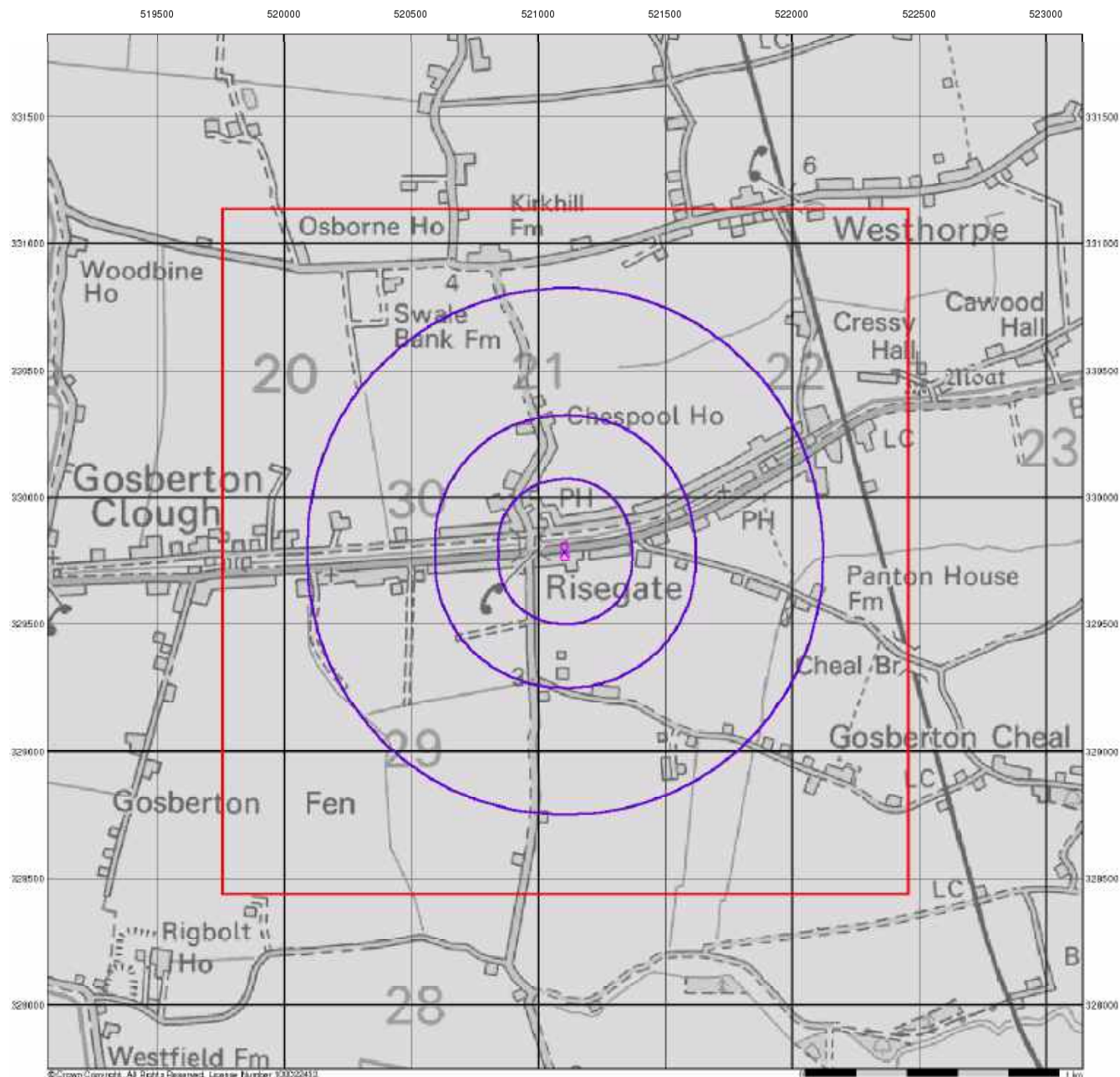
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

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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

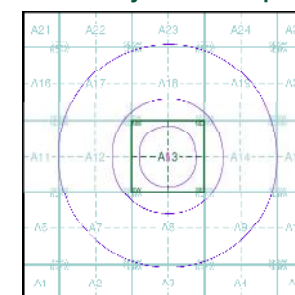
Superficial Aquifers

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

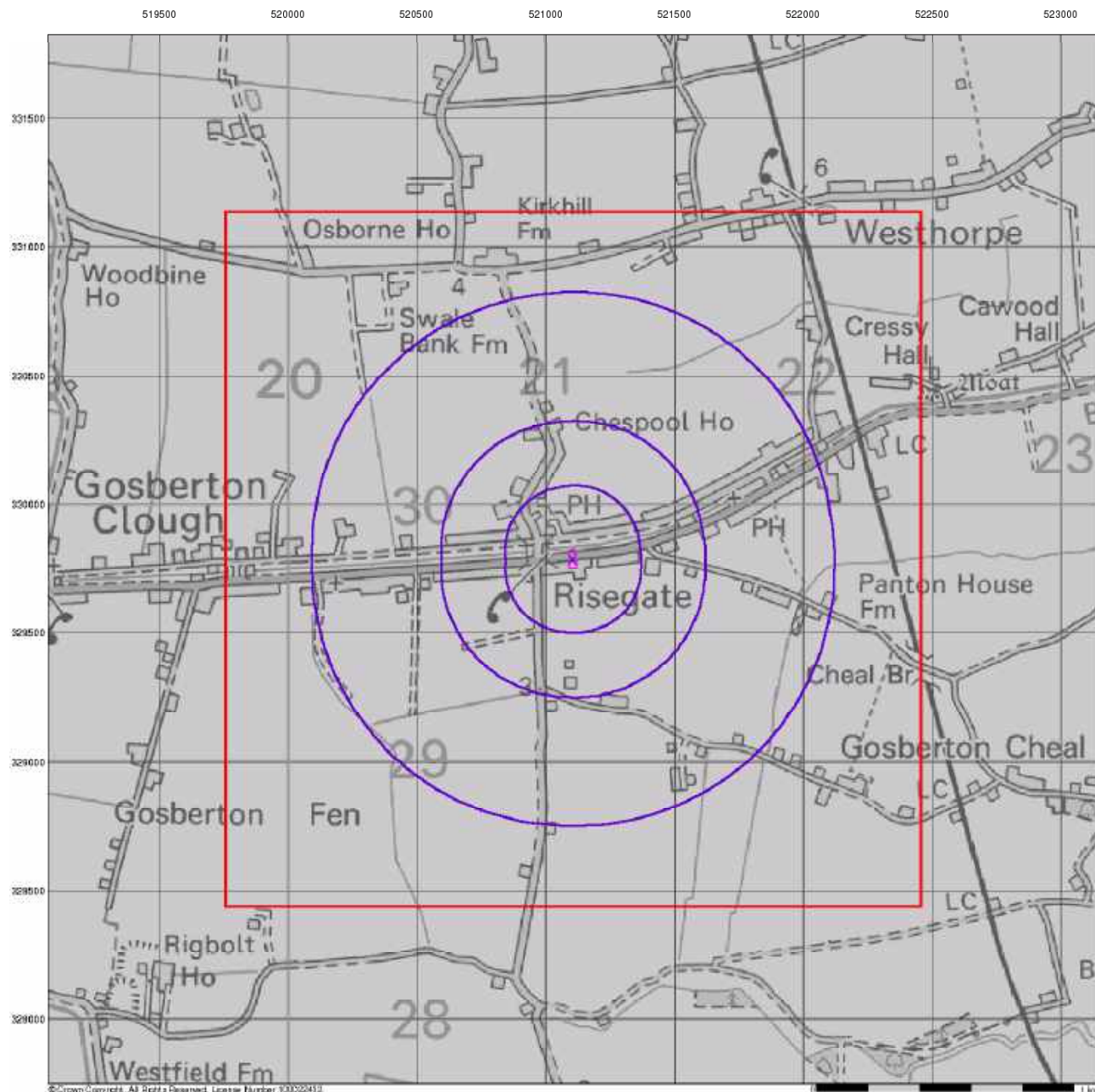
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
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Bedrock Aquifer Designation

General

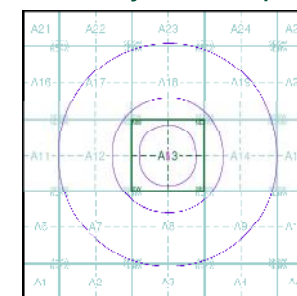
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

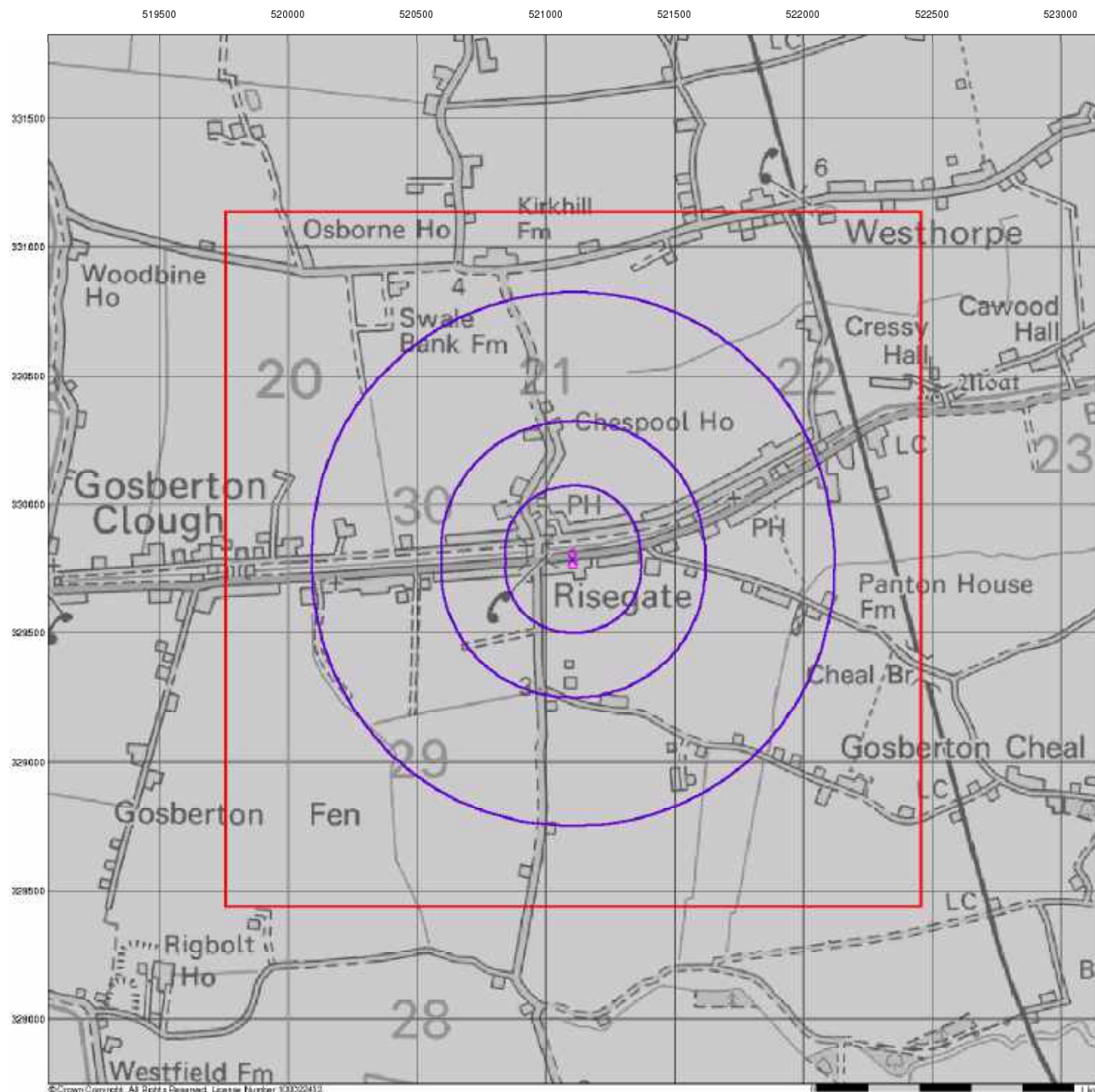
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

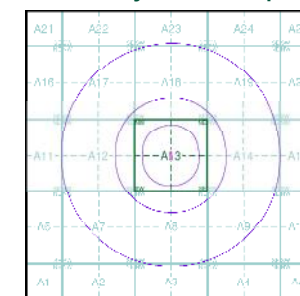
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

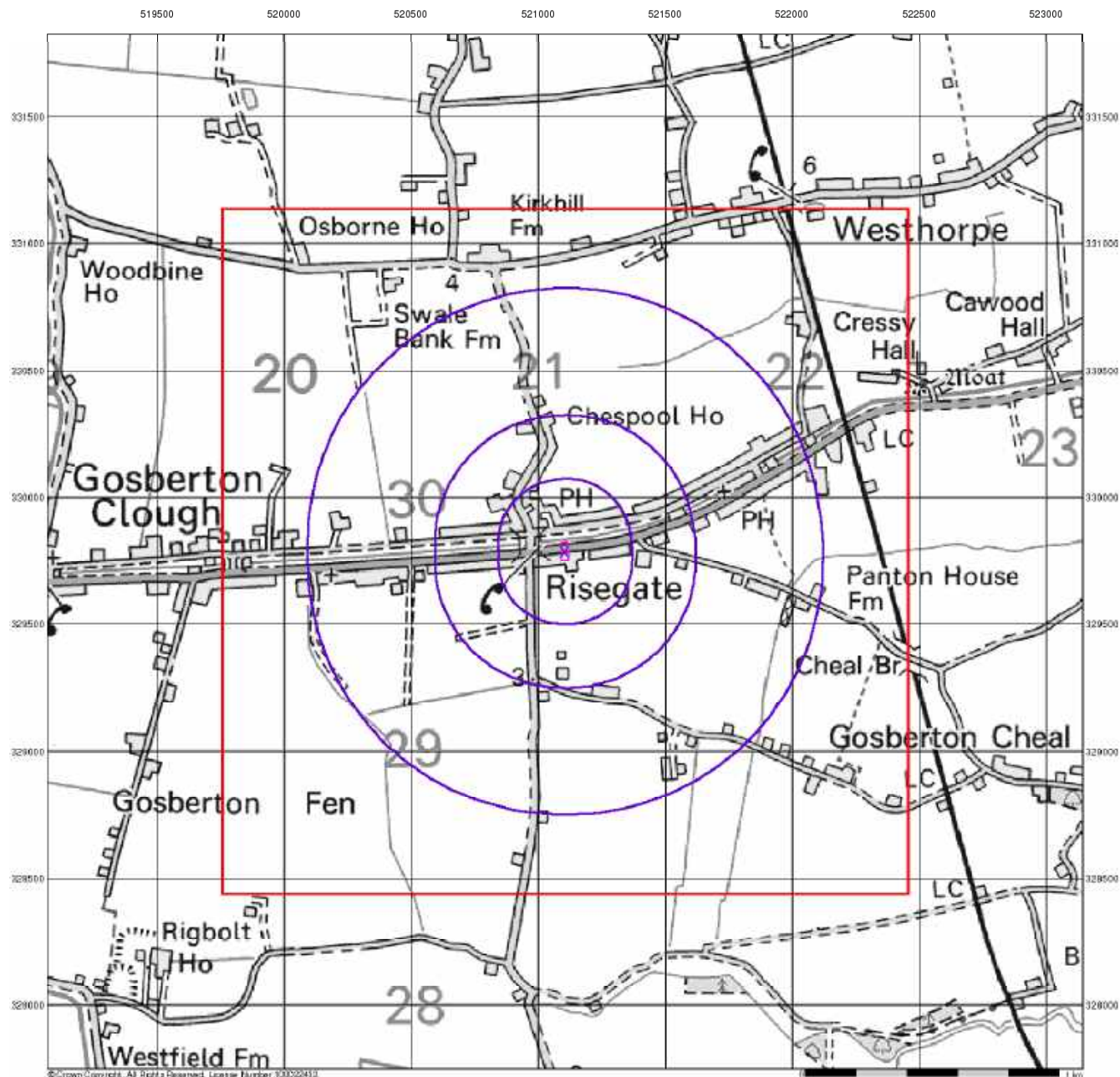
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

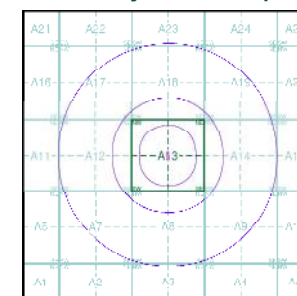
General

- X Specified Site
- Specified Buffer(s)
- X 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

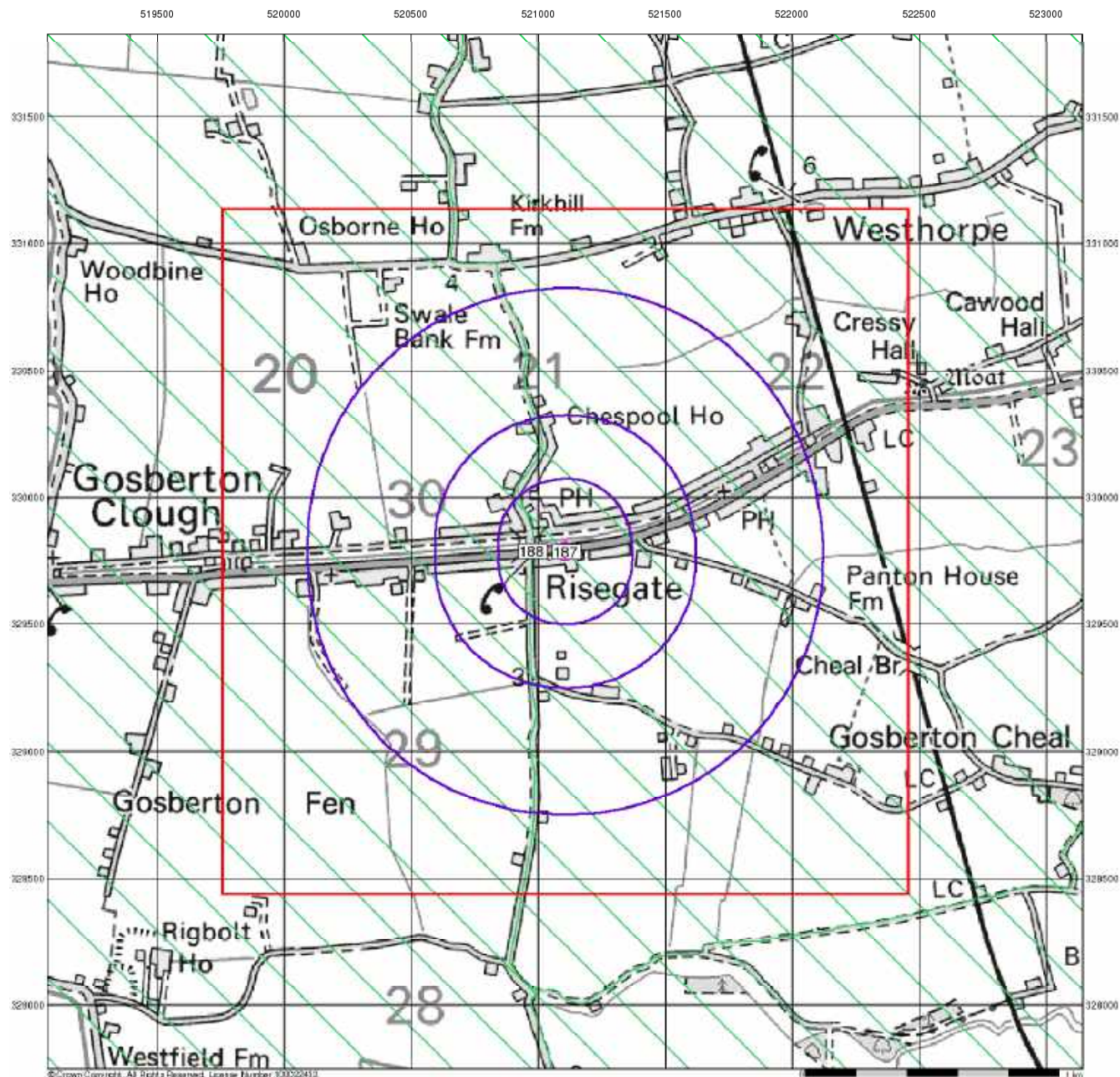
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

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Sensitive Land Uses

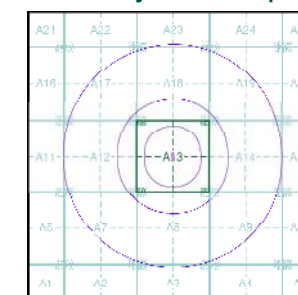
General

- 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

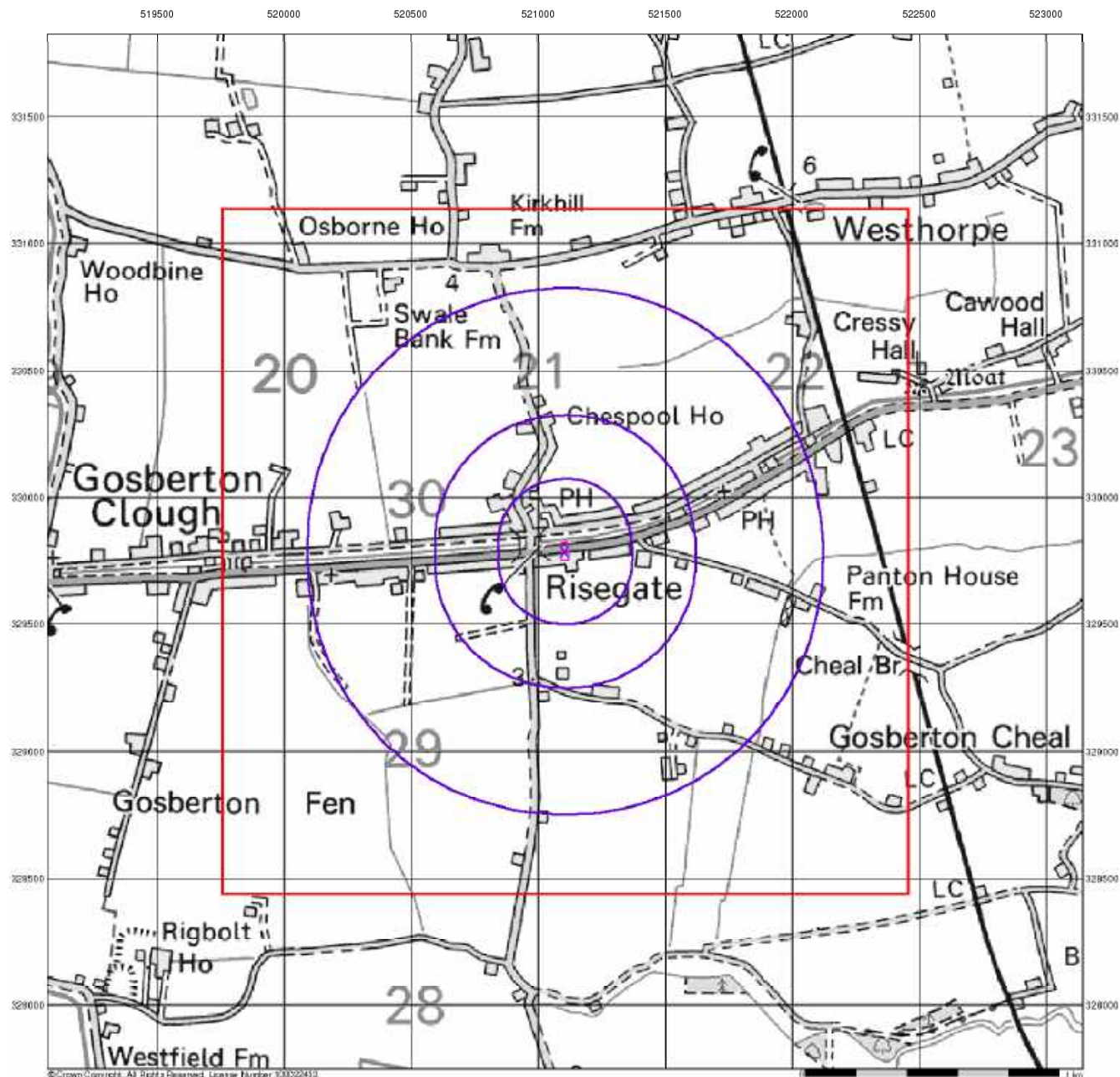
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

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BGS Flood GFS Data

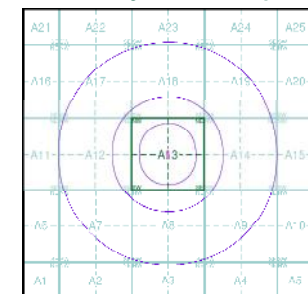
General

- Specified Site
- Specified Buffer(s)
- X 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: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

354284147_1_1

Customer Reference:

ED-2024-07-30

National Grid Reference:

521100, 329790

Slice:

A

Site Area (Ha):

0.18

Search Buffer (m):

1000

Site Details:

Land between 10 and 12, Risegate Road
Gosberton
SPALDING
PE11 4EZ

Client Details:

MR D Driver
Humberside Materials Laboratory Ltd
Atherton Way
Brigg
North Lincolnshire
DN20 8AR

Prepared For:

JC Architectural Consultant



Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	34
Hazardous Substances	-
Geological	35
Industrial Land Use	37
Sensitive Land Use	40
Data Currency	41
Data Suppliers	47
Useful Contacts	48

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



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		12	7	8
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7		Yes		
Pollution Incidents to Controlled Waters	pg 7			1	
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 8		1		13 (*25)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 17	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 18	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 18	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 18		11	31	96



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 34	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 34			2	2
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 35	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 35	Yes	Yes		
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 36	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 37		2	1	4
Fuel Station Entries	pg 37		1		
Points of Interest - Commercial Services	pg 37		3	1	4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 38			2	4
Points of Interest - Public Infrastructure	pg 38		2		
Points of Interest - Recreational and Environmental	pg 39		1		
Gas Pipelines					
Underground Electrical Cables					



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 40	1	1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: J H King & D O King (Partners) Property Type: Domestic Property (Single) Location: Siltside 114 Gosberton, Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf03344 Permit Version: 1 Effective Date: 7th August 1990 Issued Date: 7th August 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A13NE (N)	47	1	521120 329870
2	Discharge Consents Operator: Mrs Beattie Property Type: Domestic Property (Single) Location: New Haven Risegate Road, Gosberton Risegate, Spalding, Lincs, Pe11 4ez Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Prnnf18771 Permit Version: 1 Effective Date: 26th April 2007 Issued Date: 23rd May 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of South Forty Footn Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13SW (S)	53	1	521100 329700
3	Discharge Consents Operator: Charles Sherrif Tateson Property Type: Domestic Property (Single) Location: 106 Siltside Gosberton Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3428 Permit Version: 1 Effective Date: 15th July 1977 Issued Date: 15th July 1977 Revocation Date: 27th August 1997 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	110	1	521200 329890
4	Discharge Consents Operator: Mrs Julie Holloway Property Type: Domestic Property (Single) Location: Septic Tank And Conversion Unit 124b Siltside, Gosberton Risegate, Spalding, Lincolnshire, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Eprmb3299ad Permit Version: 1 Effective Date: 13th March 2019 Issued Date: 13th March 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Risegate Eau (Drain) Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NW (W)	149	1	520943 329827



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: J H King & D O King (Partners) Property Type: Domestic Property (Single) Location: Siltside No.124a Siltside, Gosberton Risegate, Spalding, Lincs, Pe11 4ex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf03343 Permit Version: 1 Effective Date: 7th August 1990 Issued Date: 7th August 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A13NW (W)	153	1	520940 329840
4	Discharge Consents Operator: Allison (Contractors) Limited Property Type: Not Supplied Location: Dwelling At Siltside Gosberton Risegate, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3461 Permit Version: 1 Effective Date: 14th December 1977 Issued Date: 14th December 1977 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13NW (W)	194	1	520900 329850
5	Discharge Consents Operator: J H King & D O King (Partners) Property Type: Not Supplied Location: Clough Road Gosberton, Risegate, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf03345 Permit Version: 1 Effective Date: 7th August 1990 Issued Date: 7th August 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A13NW (W)	152	1	520940 329790
6	Discharge Consents Operator: R Drakard Esq Property Type: Domestic Property (Single) Location: Fenbreeze Chesboule Lane, Gosberton Risegate, Spalding, Lincs, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3305 Permit Version: 2 Effective Date: 14th December 2011 Issued Date: 14th December 2011 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	186	1	520929 329911



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: R Drakard Esq Property Type: Domestic Property (Single) Location: Fenbreeze Chesboule Lane, Gosberton Riseigate, Spalding, Lincs, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3305 Permit Version: 1 Effective Date: 17th February 1976 Issued Date: 17th February 1976 Revocation Date: 13th December 2011 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	186	1	520929 329911
7	Discharge Consents Operator: Mr Re & Mrs Jm Doughty Property Type: Domestic Property (Single) Location: 11 Clough Road, Gosberton Riseigate, Spalding, Lincolnshire, Pe11 4jw Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Prnnf18459 Permit Version: 1 Effective Date: 19th December 2005 Issued Date: 20th December 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of South Forty Foot Drain Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (W)	212	1	520880 329770
8	Discharge Consents Operator: South Holland D.C. Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Shepperson Ave Gosberton Riseigate, Spalding, Lincs.Pe11 4ex (2207), Pe11 4ex Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Pr5nf486 Permit Version: 2 Effective Date: 27th May 2011 Issued Date: 27th May 2011 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Riseigate Eau Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13NW (N)	234	1	521050 330050
8	Discharge Consents Operator: South Holland D.C. Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Shepperson Ave Gosberton Riseigate, Spalding, Lincs.Pe11 4ex (2207), Pe11 4ex Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Pr5nf486 Permit Version: 1 Effective Date: 25th July 1969 Issued Date: 25th July 1969 Revocation Date: 26th May 2011 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Riseigate Eau Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (N)	234	1	521050 330050



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Mr & Mrs J T Laud Property Type: Domestic Property (Single) Location: Cornfield House Chesboule Lane, Gosberton, Risegate, Spalding, Lincolnshire, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf12541 Permit Version: 1 Effective Date: 19th February 2001 Issued Date: 23rd October 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of The Old Lode Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	251	1	520970 330040
10	Discharge Consents Operator: Mr Christopher Jones Property Type: Domestic Property (Single) Location: 90 Siltside Siltside, Gosberton Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf18857 Permit Version: 1 Effective Date: 12th November 2007 Issued Date: 12th November 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Westhorpe Drain Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	266	1	521346 329950
11	Discharge Consents Operator: Herbert Leonard Charlton Property Type: Not Supplied Location: Risegate House Gosberton, Risegate, Spalding, Lincs, Pe11 4je Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5nf2170 Permit Version: 1 Effective Date: 28th May 1963 Issued Date: 28th May 1963 Revocation Date: 10th June 1991 Discharge Type: Unknown Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NE (E)	281	1	521400 329800
12	Discharge Consents Operator: Mrs Gail Jones Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Sunset Lodge Chesboule Lane, Gosberton Risegate, Spalding, Lincolnshire, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Prnnf12711 Permit Version: 1 Effective Date: 27th November 2001 Issued Date: 30th November 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Risegate Eau Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	331	1	521060 330150



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Mr D J Mitchell Property Type: Domestic Property (Single) Location: Samen Chesboule Lane, Gosberton, Risegate, Spalding, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Low River Witham / South Forty Foot Reference: Npswd001096 Permit Version: 1 Effective Date: 17th March 2008 Issued Date: 17th March 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: The South Forty Foot Drain Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	350	1	520770 329958
14	Discharge Consents Operator: R J Drakard Property Type: Mixed Farming Location: Willowdene Farm Chesboule Lane, Gosberton Risegate, Nr Spalding, Lincs, Pe11 4eu Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Gwnlf40314 Permit Version: 1 Effective Date: 31st March 1999 Issued Date: 11th July 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge Environment: Land/Soakaway Receiving Water: Groundwater Status: Deemed Groundwater Regulations Authorisation Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	431	1	520700 330000
15	Discharge Consents Operator: Messrs R. Pearson & A. Aluzzi Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Bungalow At 35 Clough Rd, Gosberton Risegate, Spalding, Lincs, Pe11 4jw Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr3lfu1293 Permit Version: 1 Effective Date: 24th June 1983 Issued Date: 24th June 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Land/Soakaway Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	472	1	520620 329750
16	Discharge Consents Operator: Miss Jane Waring Property Type: Domestic Property (Single) Location: Elmwood Siltside, Gosberton Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3456 Permit Version: 1 Effective Date: 1st November 1977 Issued Date: 1st November 1977 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Land/Soakaway Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	584	1	521650 330050



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Kings Quality Homes Property Type: Not Supplied Location: Plot 2 Siltside Gosberton Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5398 Permit Version: 1 Effective Date: 18th August 1987 Issued Date: 18th August 1987 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	677	1	521730 330100
17	Discharge Consents Operator: Kings Quality Homes Property Type: Not Supplied Location: Plot 1 Siltside Gosberton Risegate, Spalding, Lincs, Pe11 4et Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5397 Permit Version: 1 Effective Date: 18th August 1987 Issued Date: 18th August 1987 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	686	1	521740 330100
17	Discharge Consents Operator: Kings Quality Homes Property Type: Not Supplied Location: Siltside Gosberton Risegate, Spalding, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5533 Permit Version: 1 Effective Date: 24th June 1988 Issued Date: 24th June 1988 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	694	1	521740 330120
17	Discharge Consents Operator: Mrs. D.G. Lyon Property Type: Domestic Property (Single) Location: Risegate Road Bungalow Gosberton Risegate, Spalding, Lincs, Pe11 4ey Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3672 Permit Version: 1 Effective Date: 24th January 1980 Issued Date: 24th January 1980 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	695	1	521750 330100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Mr Mike Stacey Property Type: Domestic Property (Single) Location: Riverdene, Risegate Risegate Road, Gosberton, Spalding, Lincs, Pe11 4ey Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf12852 Permit Version: 1 Effective Date: 7th October 2002 Issued Date: 29th October 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Risegate Eau Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	703	1	521770 330070
18	Discharge Consents Operator: H + C P Gotobed Property Type: Arable Farming Location: Barrowpier Hall Farm Cheal Road, Gosberton, Risegate, Spalding, Lincs, Pe11 4jl Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Gwnlf40285 Permit Version: 1 Effective Date: 31st March 1999 Issued Date: 12th July 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Status: Deemed Groundwater Regulations Authorisation Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	934	1	521500 328900
19	Discharge Consents Operator: Mr D Sandall Property Type: Domestic Property (Single) Location: Cheal Road Gosberton Cheal, Spalding, Lincs, Pe11 4jq Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02648 Permit Version: 1 Effective Date: 30th April 1990 Issued Date: 30th April 1990 Revocation Date: 25th July 1997 Discharge Type: Unknown Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	979	1	521800 329050
	Nearest Surface Water Feature	A13NW (N)	18	-	521096 329840
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Idb Drain Incident Date: 10th April 1992 Incident Reference: 1291 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	292	1	520800 329800



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Water Abstractions Operator: C. F. Harrison Limited Licence Number: 4/30/12/*s/197 Permit Version: Not Supplied Location: Farm Dykes Gosberton Risegate, GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 2 Yearly Rate (m3): 327320 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	142	1	520950 329795
22	Water Abstractions Operator: C. F. Harrison Limited Licence Number: 4/30/12/*s/197 Permit Version: Not Supplied Location: Farm Dykes Gosberton Risegate, GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 2 Yearly Rate (m3): 327320 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	815	1	520950 328950
23	Water Abstractions Operator: V A Barker Licence Number: 4/30/12/*S/0244 Permit Version: 100 Location: Unnamed Riparian Drn Gosberton 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 April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	827	1	520400 329300
23	Water Abstractions Operator: Mr. V. A. Barker Licence Number: 4/30/12/**/244 Permit Version: Not Supplied Location: Unnamed Riparian Drain , GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Fill Etc Reservoir Transfer Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 2 Yearly Rate (m3): 800000 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	A7NW (SW)	829	1	520400 329295



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point G Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	887	1	521898 329330
24	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point G Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	887	1	521898 329330
24	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point G Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	887	1	521898 329330
25	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point H Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	898	1	522015 329715



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point H Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	898	1	522015 329715
25	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point H Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	898	1	522015 329715
26	Water Abstractions Operator: Mr. V. A. Barker Licence Number: 4/30/12/**/244 Permit Version: Not Supplied Location: Unnamed Riparian Drain , GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Fill Etc Reservoir Transfer Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 2 Yearly Rate (m3): 800000 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	A7NW (SW)	961	1	520305 329200
26	Water Abstractions Operator: V A Barker Licence Number: 4/30/12/*S/0244 Permit Version: 100 Location: I.D.B. Drain Gosberton 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 April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	965	1	520300 329200



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Water Abstractions Operator: Mr. V. A. Barker Licence Number: 4/30/12/**/244 Permit Version: Not Supplied Location: I D B Drain, GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 2 Yearly Rate (m3): 800000 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	A7NW (SW)	968	1	520300 329195
27	Water Abstractions Operator: H & C Gotobed Licence Number: 5/31/14/*G/0120 Permit Version: 100 Location: Borehole At Barrowpier Hall Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: South Lincolnshire Limestone; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1988 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	979	1	521600 328900
	Water Abstractions Operator: B S Tidswell Licence Number: 5/31/14/*S/0110 Permit Version: 100 Location: Riseigate Eau, Gosberton Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 June Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	1057	1	522100 330200
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point I Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1107	1	522226 329775



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point I Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1107	1	522226 329775
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point I Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1107	1	522226 329775
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point J Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	1271	1	522252 330386
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point J Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	1271	1	522252 330386



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point J Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SW (NE)	1271	1	522252 330386
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*s/169 Permit Version: Not Supplied Location: Farm Drains , GOSBERTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 100 Yearly Rate (m3): 6000000 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	A15NE (E)	1415	1	522500 330100
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point E Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1468	1	522586 329824
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point E Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1468	1	522586 329824



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point E Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1468	1	522586 329824
	Water Abstractions Operator: A G Daniels Licence Number: 4/30/12/*G/0097 Permit Version: 100 Location: Vicarage Farm Bore Quadring Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: South Lincolnshire Limestone; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 1974 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NE (N)	1594	1	520500 331300
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point D Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1615	1	522734 329812
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point D Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1615	1	522734 329812



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point D Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1615	1	522734 329812
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point L Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1821	1	522927 330005
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point L Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1821	1	522927 330005
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point L Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1821	1	522927 330005



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Lp Sneath Licence Number: An/030/0012/054 Permit Version: 1 Location: Farm Drains Pinchbeck West Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Farm In Pinchbeck Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2023 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1833	1	520882 327932
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point K Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1864	1	522876 330426
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains-Gosberton-Point K Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: 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 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1864	1	522876 330426
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains-Gosberton-Point K Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1864	1	522876 330426



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains, Gosberton-Point C Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1992	1	523110 329837
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 102 Location: Farm Drains, Gosberton-Point C Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1992	1	523110 329837
	Water Abstractions Operator: Proctor Bros (Gosberton) Ltd Licence Number: 5/31/14/*S/0169 Permit Version: 101 Location: Farm Drains, Gosberton-Point C Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 28th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1992	1	523110 329837
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13SW (NW)	0	2	521104 329786
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (NW)	0	2	521104 329786
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (NW)	0	2	521104 329786



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	0	1	521104 329765
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	16	1	521135 329825
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	0	1	521104 329820
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	88	1	521045 329895
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	104	1	521215 329840
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	153	1	520995 329633
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
28	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 370.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Risegate Eau Catchment Name: Welland Primacy: 1	A13NW (N)	20	3	521096 329842
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 771.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SW (SW)	62	3	521050 329706
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: Underground Permanent: True Watercourse Name: Risegate Eau Catchment Name: Welland Primacy: 1	A13NW (W)	104	3	520987 329828
31	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 152.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Risegate Eau Catchment Name: Witham Primacy: 1	A13NW (W)	129	3	520963 329826
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (SW)	129	3	520965 329723



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (W)	180	3	520912 329777
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (W)	180	3	520912 329777
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (N)	218	3	521124 330041
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (SW)	247	3	520963 329542
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	249	3	521351 329895
38	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 228.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riseigate Eau Catchment Name: Welland Primacy: 1	A13NE (NE)	249	3	521351 329895
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 254.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (SW)	254	3	520963 329534
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (E)	258	3	521372 329706
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A13NE (NE)	261	3	521344 329944



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (W)	275	3	520817 329773
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (W)	275	3	520817 329773
44	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 519.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Risegate Eau Catchment Name: Witham Primacy: 1	A13NW (W)	281	3	520810 329815
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SW (W)	284	3	520808 329771
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 685.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13NW (W)	298	3	520797 329866
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 343.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (E)	314	3	521431 329815
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A13NE (NE)	315	3	521336 330045
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 253.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	320	3	521138 330143
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A13NW (N)	321	3	520973 330119



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SE (W)	347	3	520745 329761
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A18SE (NE)	397	3	521327 330158
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SE (W)	398	3	520694 329756
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 290.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A18SE (NE)	403	3	521327 330165
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 401.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (SE)	409	3	521393 329449
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 475.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SE (W)	433	3	520663 329695
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	437	3	521556 329773
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	464	3	521055 329290
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 255.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	467	3	521004 329294



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 253.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	471	3	521590 329766
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	472	3	520989 329293
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	477	3	520987 329287
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 325.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Risegate Eau Catchment Name: Welland Primacy: 1	A14NW (E)	478	3	521566 329971
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	483	3	521094 329269
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	485	3	521099 329268
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 325.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8NW (S)	488	3	520969 329280
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8NW (S)	488	3	520969 329280
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	488	3	521107 329264



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	499	3	520983 329266
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	501	3	520987 329263
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	509	3	521166 329245
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	514	3	521184 329242
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8NW (S)	520	3	520972 329246
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	526	3	520989 329237
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	531	3	520990 329231
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	550	3	521239 329216
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	551	3	521670 329743



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	577	3	521694 329721
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (SE)	589	3	521369 329219
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (E)	614	3	521725 329880
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (SE)	626	3	521392 329189
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 458.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	627	3	521630 329390
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (SE)	638	3	521403 329182
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	645	3	521763 329727
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 536.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SW (E)	649	3	521768 329787
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: Underground Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A18SE (N)	660	3	521305 330454



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A18NW (N)	665	3	520937 330467
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	672	3	520989 329088
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 207.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A18NE (N)	675	3	521305 330470
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 179.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	677	3	520987 329084
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 592.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8SW (S)	679	3	520952 329088
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7NE (SW)	692	3	520649 329220
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NW (W)	701	3	520391 329859
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NW (W)	708	3	520389 329906
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NW (W)	709	3	520388 329909



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	726	3	521504 329137
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 488.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SW (NE)	730	3	521754 330173
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	730	3	521508 329135
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	767	3	521872 329941
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	769	3	521873 329935
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 301.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NW (W)	772	3	520361 330070
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 620.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NW (W)	772	3	520361 330070
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	776	3	521554 329110
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	791	3	521604 329128



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A18NW (N)	792	3	520941 330597
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 743.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SW (W)	797	3	520295 329761
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 450.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19NW (NE)	797	3	521450 330546
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A19NW (NE)	797	3	521450 330546
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 667.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A18NW (N)	798	3	520939 330603
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SE (NE)	799	3	521852 330126
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 362.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riseigate Eau Catchment Name: Welland Primacy: 1	A19SE (NE)	799	3	521852 330126
112	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 140.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riseigate Eau Catchment Name: Witham Primacy: 2	A12SW (W)	800	3	520292 329780
113	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	800	3	520292 329780



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	802	3	521900 329972
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	802	3	521908 329929
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	803	3	521900 329978
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	808	3	521924 329855
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	808	3	521924 329855
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NE (SE)	811	3	521819 329344
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 362.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NE (SE)	811	3	521819 329344
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 249.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A17SE (NW)	821	3	520564 330449
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	839	3	521599 329064



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 471.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	850	3	521948 329567
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7NE (SW)	852	3	520459 329182
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	852	3	520989 328907
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SW (W)	855	3	520238 329709
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	856	3	521968 329649
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	858	3	521965 329927
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	858	3	521971 329882
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7NE (SW)	858	3	520452 329181
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	858	3	521639 329070



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	867	3	521649 329067
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	870	3	520991 328889
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	872	3	521632 329048
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1337.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	872	3	521029 328883
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SW (S)	873	3	520991 328886
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 597.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	887	3	521997 329632
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 429.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19NW (NE)	890	3	521494 330628
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Lode Catchment Name: Welland Primacy: 2	A19NW (NE)	892	3	521569 330590
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (S)	898	3	521383 328894



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	903	3	522010 329611
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 432.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (S)	905	3	521373 328884
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	906	3	522023 329712
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 600.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8SW (S)	918	3	520973 328842
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	924	3	521749 329077
146	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7NW (SW)	933	3	520369 329163
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	937	3	521752 329062
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 425.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riseigate Eau Catchment Name: Witham Primacy: 2	A12SW (W)	940	3	520152 329770
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 607.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	940	3	521754 329060



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	941	3	522045 329592
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 593.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A8SW (S)	949	3	520967 328812
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NE (SE)	954	3	521881 329178
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NE (SE)	954	3	521881 329178
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	957	3	521526 328886
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9SW (SE)	960	3	521531 328886
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	961	3	522062 329571
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	989	3	522096 329941
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	990	3	522096 329939



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14SE (E)	991	3	522089 329553
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7SW (SW)	991	3	520354 329091
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A7SW (SW)	991	3	520354 329091
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	995	3	522082 330044
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	995	3	522083 330038
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 602.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A3NW (S)	996	3	520979 328763
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A3NW (S)	996	3	520979 328763



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	5	521104 329786
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	4	521104 329786
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SW (W)	260	-	520832 329763
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	445	-	520711 329521
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	599	-	520542 329516
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (W)	687	-	520445 329522



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Kellaways Formation And Oxford Clay Formation (Undifferentiated)	A13SW (NW)	0	6	521104 329786
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NW)	0	6	521104 329786
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	91	6	521000 329786
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	6	521104 330000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	6	521104 329786



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Contemporary Trade Directory Entries Name: British 4 X 4 Centre Location: 10 Risegate Road, Gosberton, Spalding, Lincolnshire, PE11 4EZ Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	14	-	521078 329801
170	Contemporary Trade Directory Entries Name: 4 Wheel Drive Truck Centre Location: Country Workshops, Risegate Road, Gosberton, Spalding, PE11 4EZ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (W)	16	-	521076 329795
171	Contemporary Trade Directory Entries Name: J Lee Location: Oak Lodge, Cheal Road, Gosberton, Spalding, Lincolnshire, PE11 4JQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	448	-	521132 329304
172	Contemporary Trade Directory Entries Name: Lamberts Warehousing Location: 61-65, Clough Road, Gosberton Risegate, Spalding, Lincolnshire, PE11 4JW Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	720	-	520372 329748
172	Contemporary Trade Directory Entries Name: Lamberts Transport Location: 65, Clough Road, Gosberton Risegate, SPALDING, Lincolnshire, PE11 4JW Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	732	-	520360 329735
173	Contemporary Trade Directory Entries Name: Heat Care Boiler Services Location: Dovedale House, Cheal Road, Gosberton, SPALDING, Lincolnshire, PE11 4JQ Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	827	-	521594 329076
174	Contemporary Trade Directory Entries Name: Meadstone Construct Uk Ltd Location: Fresh Approach, Hedgefield Hurn, Gosberton, Spalding, Lincolnshire, PE11 4JE Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	926	-	522029 329586
175	Fuel Station Entries Name: 4 Wheel Drive Truck Centre Location: Risegate Road, Risegate Gosberton, Spalding, Lincolnshire, PE11 4EZ Brand: Unbranded Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NW (W)	15	-	521077 329796
176	Points of Interest - Commercial Services Name: British 4 X 4 Centre Location: 10 Risegate Road, Gosberton, Spalding, PE11 4EZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	14	7	521078 329801
176	Points of Interest - Commercial Services Name: 4 Wheel Drive Truck Centre Location: Country Workshops, Risegate Road, Gosberton, Spalding, PE11 4EZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	15	7	521077 329796
176	Points of Interest - Commercial Services Name: 4 Wheel Drive Truck Centre Location: 4 Risegate Road, Gosberton Risegate, Spalding, PE11 4EZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	83	7	521009 329793



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	Points of Interest - Commercial Services Name: J Lee Location: Oak Lodge, Cheal Road, Gosberton, Spalding, PE11 4JQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (S)	448	7	521132 329304
178	Points of Interest - Commercial Services Name: Lamberts Transport Location: 61-65 Clough Road, Gosberton Risegate, Spalding, PE11 4JW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	720	7	520372 329748
178	Points of Interest - Commercial Services Name: Lamberts Warehousing Location: 61-65 Clough Road, Gosberton Risegate, Spalding, PE11 4JW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	720	7	520372 329748
178	Points of Interest - Commercial Services Name: Lamberts Transport Location: 61-65 Clough Road, Gosberton Risegate, Spalding, PE11 4JW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	720	7	520372 329748
178	Points of Interest - Commercial Services Name: Lamberts Transport Location: 65 Clough Road, Gosberton Risegate, Spalding, PE11 4JW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	730	7	520362 329735
179	Points of Interest - Manufacturing and Production Name: H K Charlton & Son Location: Risegate House, Hedgefield Hurn, Gosberton, Spalding, PE11 4JE Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13SE (E)	273	7	521392 329775
180	Points of Interest - Manufacturing and Production Name: F Drakard Location: Willowdene Farm, Chesboule Lane, Spalding, PE11 4EU Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13NW (NW)	296	7	520858 330002
181	Points of Interest - Manufacturing and Production Name: B & S Sandall Location: Blacksmiths Bungalow, Hedgefield Hurn, Gosberton, Spalding, PE11 4JE Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A14SW (E)	663	7	521779 329696
182	Points of Interest - Manufacturing and Production Name: H & C P Gotobed Location: Gotobed, Cheal Road, Gosberton, Spalding, PE11 4JQ Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A9SW (SE)	777	7	521516 329084
183	Points of Interest - Manufacturing and Production Name: H & C P Gotobed Location: Barrowpier Hall Farm, Cheal Road, Gosberton, Spalding, PE11 4JQ Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A9SW (SE)	931	7	521572 328939
184	Points of Interest - Manufacturing and Production Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	955	7	522057 329575
185	Points of Interest - Public Infrastructure Name: Sewage Works Location: PE11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	212	7	521062 330030



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
185	Points of Interest - Public Infrastructure Name: Sewage Works Location: PE11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NW (N)	219	7	521051 330035
186	Points of Interest - Recreational and Environmental Name: Play Area Location: Shepperson'S Avenue, PE11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (N)	192	7	521027 330001



Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	Nitrate Vulnerable Zones Name: Risegate Eau Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (NW)	0	2	521104 329786
188	Nitrate Vulnerable Zones Name: Black Sluice Idb Draining To The South Forty Foot Drain Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (W)	115	2	520976 329790



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Kesteven District Council - Environmental Health Environment Agency - Head Office Boston Borough Council - Pollutions Section, Environmental Health South Holland District Council - Environmental Services	April 2015 November 2023 September 2017 September 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	April 2024	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	July 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control South Kesteven District Council - Environmental Health Boston Borough Council - Pollutions Section, Environmental Health South Holland District Council - Environmental Services	April 2014 December 2020 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Boston Borough Council - Pollutions Section, Environmental Health South Kesteven District Council - Environmental Health South Holland District Council - Environmental Services	December 2020 December 2020 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Kesteven District Council - Environmental Health Boston Borough Council - Pollutions Section, Environmental Health South Holland District Council - Environmental Services	April 2014 December 2014 October 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	June 2024	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	
Registered Radioactive Substances Environment Agency - Anglian Region Environment Agency - Head Office	May 2023 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	April 2024	Quarterly
Water Abstractions Environment Agency - Anglian Region	July 2024	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified



Data Currency

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	July 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified



Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	May 2024	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	May 2024	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	January 2023	Quarterly
Local Authority Landfill Coverage Boston Borough Council - Pollutions Section, Environmental Health Lincolnshire County Council South Holland District Council - Environmental Services South Kesteven District Council - Environmental Health	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Boston Borough Council - Pollutions Section, Environmental Health Lincolnshire County Council South Holland District Council - Environmental Services South Kesteven District Council - Environmental Health	October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Boston Borough Council - Planning Department South Kesteven District Council South Holland District Council Lincolnshire County Council - Highways and Planning Department	April 2023 August 2023 February 2023 January 2023	Variable Variable Variable Variable
Planning Hazardous Substance Consents Lincolnshire County Council - Highways and Planning Department Boston Borough Council - Planning Department South Kesteven District Council South Holland District Council	August 2007 February 2016 February 2016 January 2016	Variable Variable Variable Variable



Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually



Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	June 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	June 2024	Quarterly
Points of Interest - Education and Health PointX	June 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2024	Quarterly
Points of Interest - Public Infrastructure PointX	June 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	Bi-Annually



Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt Boston Borough Council - Planning Department South Holland District Council South Kesteven District Council	July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Boston Borough Council - Planning Department South Holland District Council South Kesteven District Council	July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	May 2024	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	February 2024	Bi-Annually
Marine Nature Reserves Natural England	February 2024	Bi-Annually
National Nature Reserves Natural England	February 2024	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 April 2024	Bi-Annually
Ramsar Sites Natural England	February 2024	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2024	Bi-Annually
Special Areas of Conservation Natural England	April 2024	Bi-Annually
Special Protection Areas Natural England	April 2024	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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Useful Contacts

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
2	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
3	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	Lincolnshire County Council 4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN	Telephone: 01522 552222 Fax: 01522 552288 Email: PublicRelations@lincolnshire.gov.uk Website: www.lincolnshire.gov.uk
5	South Holland District Council - Environmental Services Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Website: www.sholland.gov.uk
6	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
7	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Clay and Silt	Not Supplied - Holocene
	TFD1	Tidal Flat Deposits, 1	Clay and Silt	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	OXC	Oxford Clay Formation	Mudstone	Not Supplied - Callovian



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:	144
Map Name:	Spalding
Map Date:	1992
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

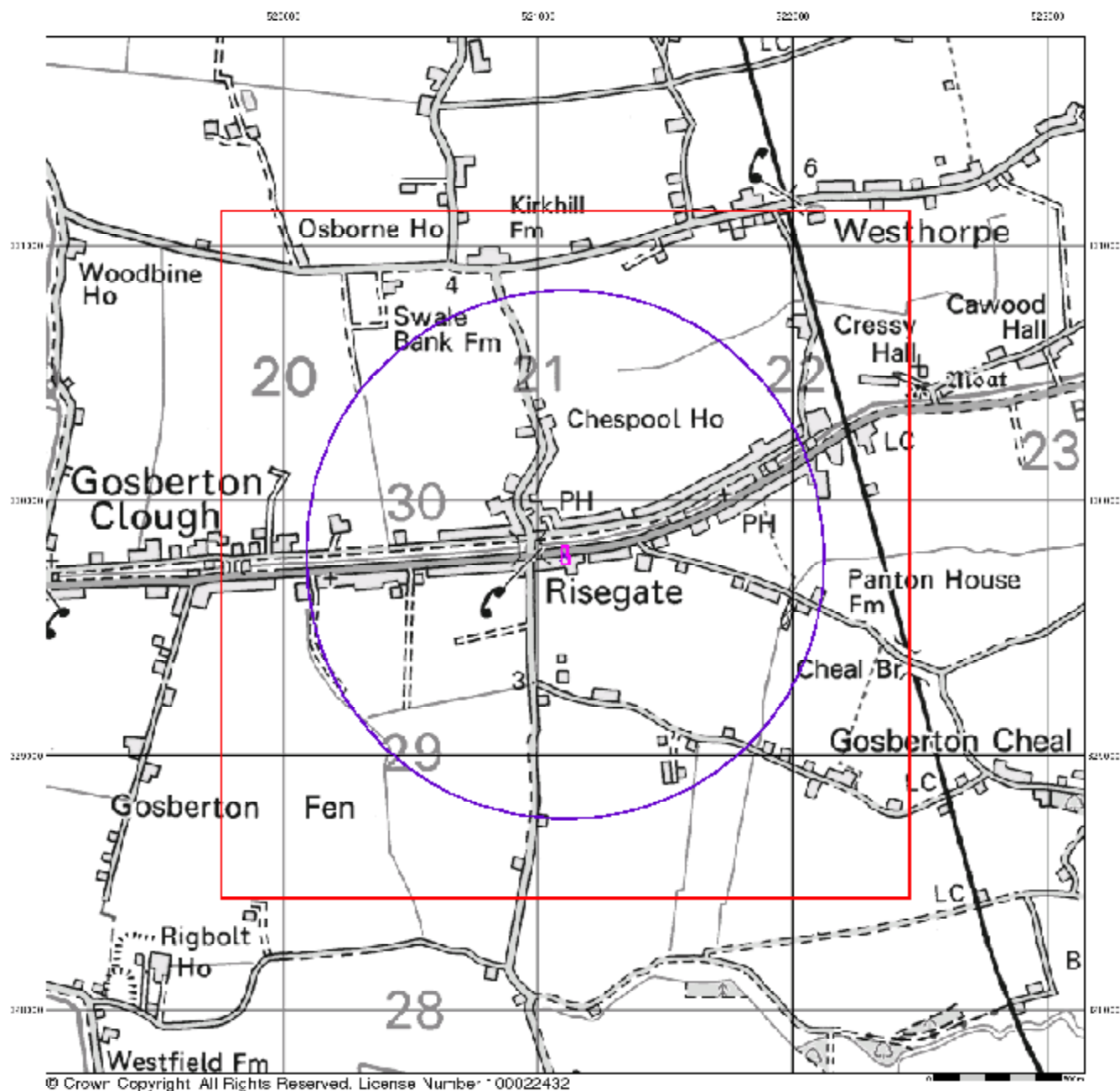
Order Number:	354284147_1_1
Customer Reference:	ED-2024-07-30
National Grid Reference:	521100, 329790
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details:

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ



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



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Artificial Ground and Landslip

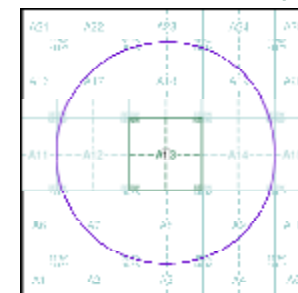
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

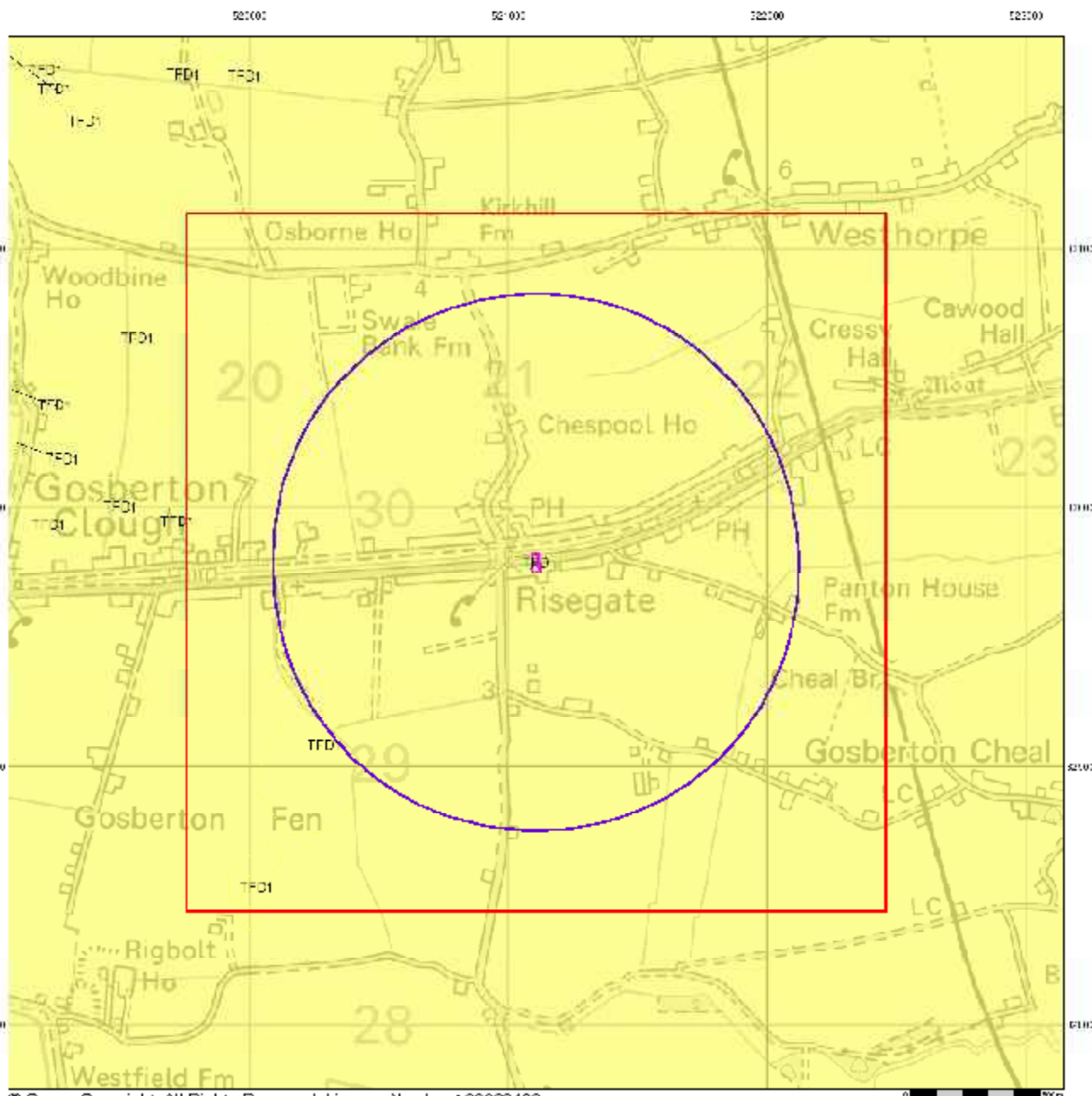
Order Number: 354284147_1_1
 Customer Reference: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details:

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
 CONSULTING SURVEYING

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



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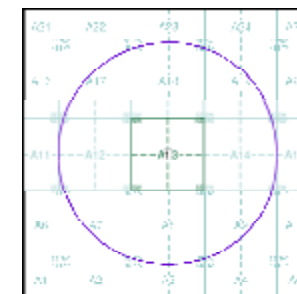
Superficial Geology

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: 354284147_1_1
Customer Reference: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details:

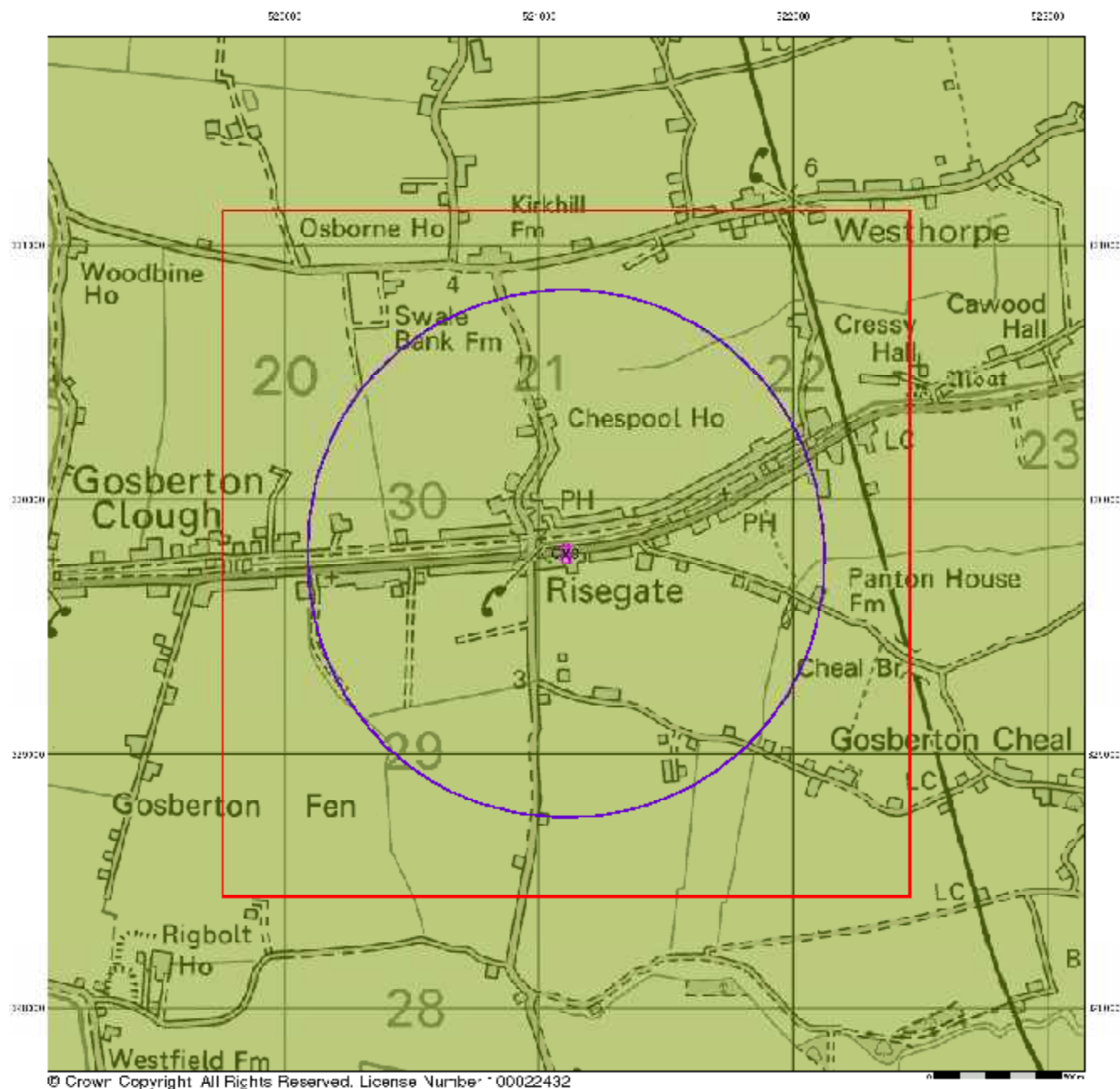
Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
Environmental Services

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

v15.0 30-Jul-2024

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Bedrock and Faults

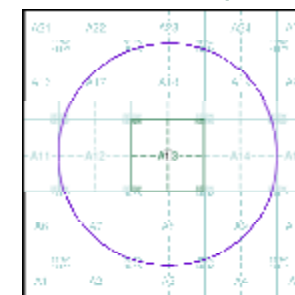
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

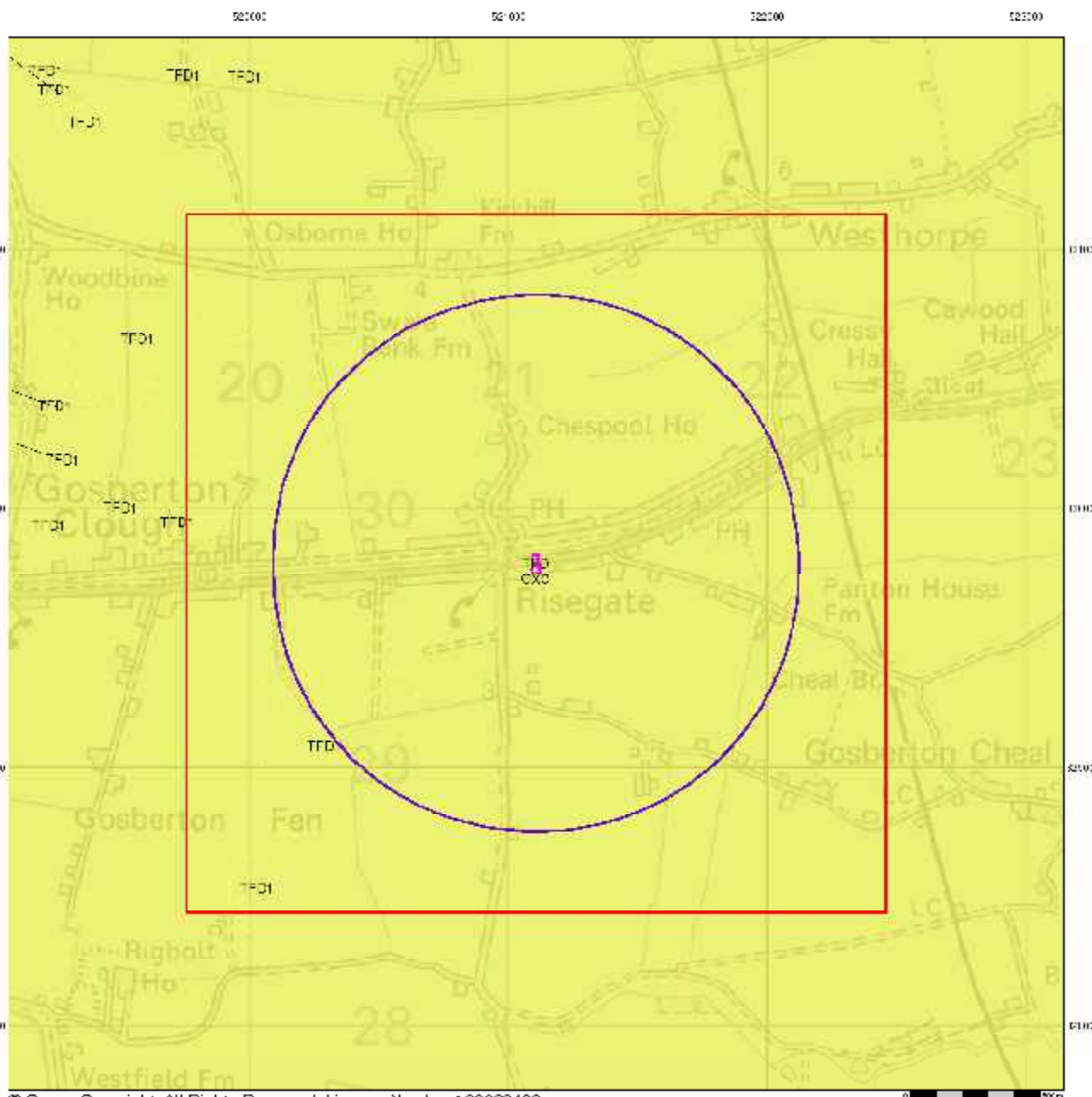


Order Details:

Order Number:	354284147_1_1
Customer Reference:	ED-2024-07-30
National Grid Reference:	521100, 329790
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details:

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ



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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.

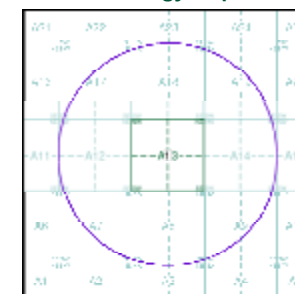
Additional Information

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: 354284147_1_1
Customer Reference: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details:

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ



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



Historical Land Use Information (1:2,500)

General

- Spotted Fill
- Spotted Filling
- Reeling Reference Point
- Map ID
- Source of Topographical Data

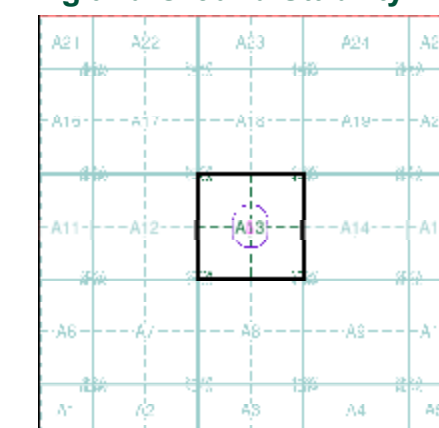
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1904 - 1909			
Extractive Industries Activity from 1910 - 1919			
Extractive Industries Activity from 1920 - 1929			
Extractive Industries Activity from 1930 - 1939			
Extractive Industries Activity from 1940 - 1949			

Subterranean Features

	Point	Line	Polygon
Subterranean Features			

Mining and Ground Stability - Segment A13



Order Details

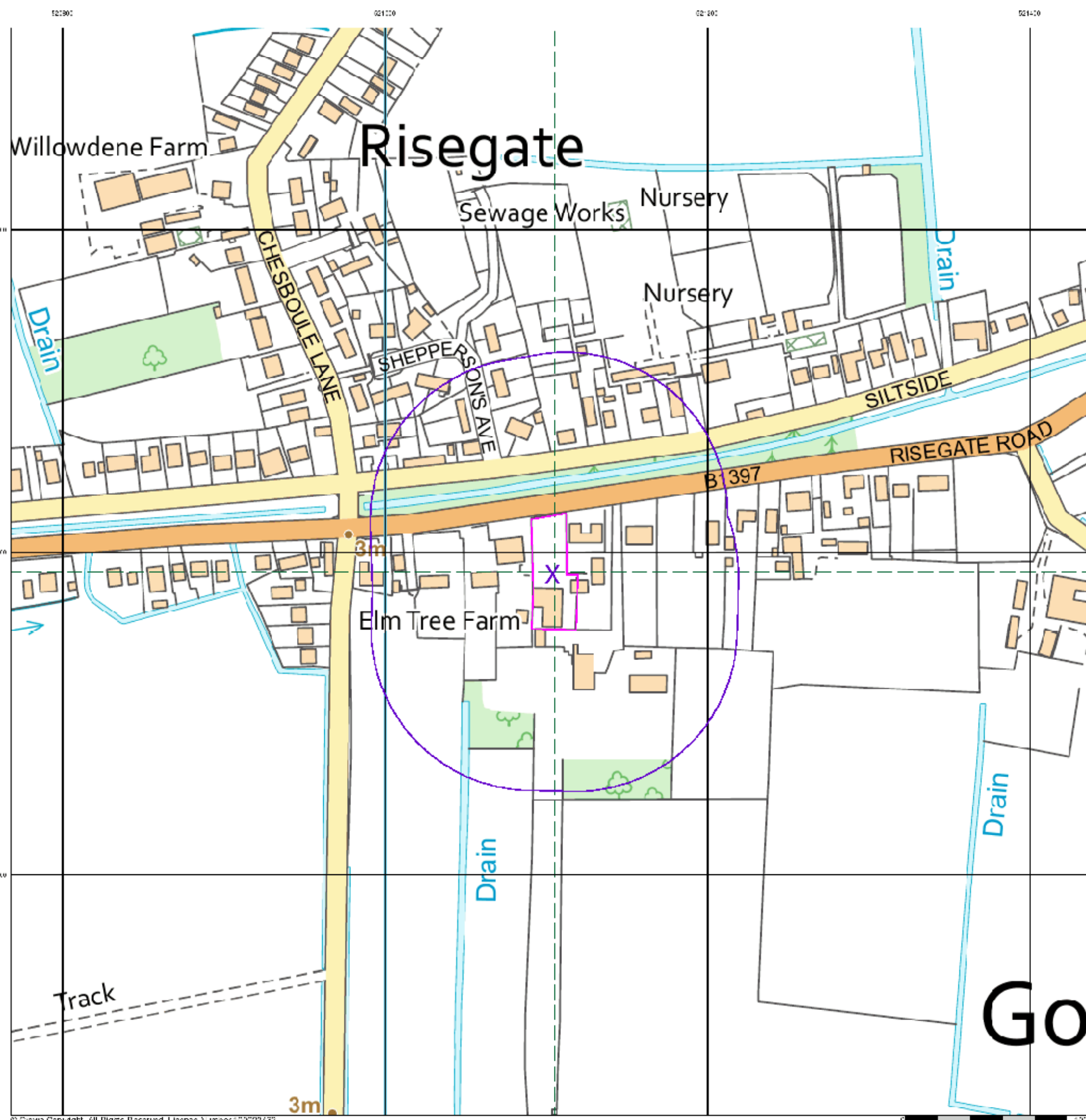
Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Plot Buffer (m): 100

Site Details

Land between 10 and 12, Rise Gate Road, Gosberton,
SPALDING, PE11 4EZ

Landmark
INFORMATION GROUP

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





Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

354284147_1_1

Customer Reference:

ED-2024-07-30

National Grid Reference:

521100, 329790

Slice:

A

Site Area (Ha):

0.18

Search Buffer (m):

1000

Site Details:

Land between 10 and 12, Risegate Road
Gosberton
SPALDING
PE11 4EZ

Client Details:

MR D Driver
Humberside Materials Laboratory Ltd
Atherton Way
Brigg
North Lincolnshire
DN20 8AR

Prepared For:

JC Architectural Consultant



Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	-
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	1
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	2
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	3
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	4
Data Suppliers	5
Useful Contacts	6

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The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites					
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes	pg 1			1	
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 1			2	2
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Salt Mining Related Features					



Report Version v53.0

Summary



Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Former Marshes Use: Former Marsh Date of Mapping: 1956	A13SE (SE)	418	-	521439 329484
2	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SW (W)	260	-	520832 329763
3	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	445	-	520711 329521
4	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	599	-	520542 329516
5	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (W)	687	-	520445 329522



Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000
6	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
7	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000
8	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
9	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000
10	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
11	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000
12	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	521104 329786
13	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	176	1	521104 330000



Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheets	Published Date
Ordnance Survey Plan	TF2029	1973
Ordnance Survey Plan	TF2030	1973
Ordnance Survey Plan	TF2129	1973
Ordnance Survey Plan	TF2130	1973

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheets	Published Date
Lincolnshire	126_SW	1890
Lincolnshire	134_NW	1891
Lincolnshire	125_SE	1892
Lincolnshire	133_NE	1892
Lincolnshire	125_SE	1906
Lincolnshire	126_SW	1906
Lincolnshire	133_NE	1906
Lincolnshire	134_NW	1906
Lincolnshire	125_SE	1931
Lincolnshire	126_SW	1932
Lincolnshire	126_SW	1951
Lincolnshire	134_NW	1951
Lincolnshire	125_SE	1952
Lincolnshire	133_NE	1952
Ordnance Survey Plan	TF13SE	1956
Ordnance Survey Plan	TF22NW	1956
Ordnance Survey Plan	TF23SW	1956
Ordnance Survey Plan	TF12NE	1958
1:10,000	Mapsheets	Published Date
Ordnance Survey Plan	TF23SW	1977
Ordnance Survey Plan	TF12NE	1985
Ordnance Survey Plan	TF13SE	1985
Ordnance Survey Plan	TF22NW	1990



Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2023	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2023	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	July 2023	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	



Data Suppliers

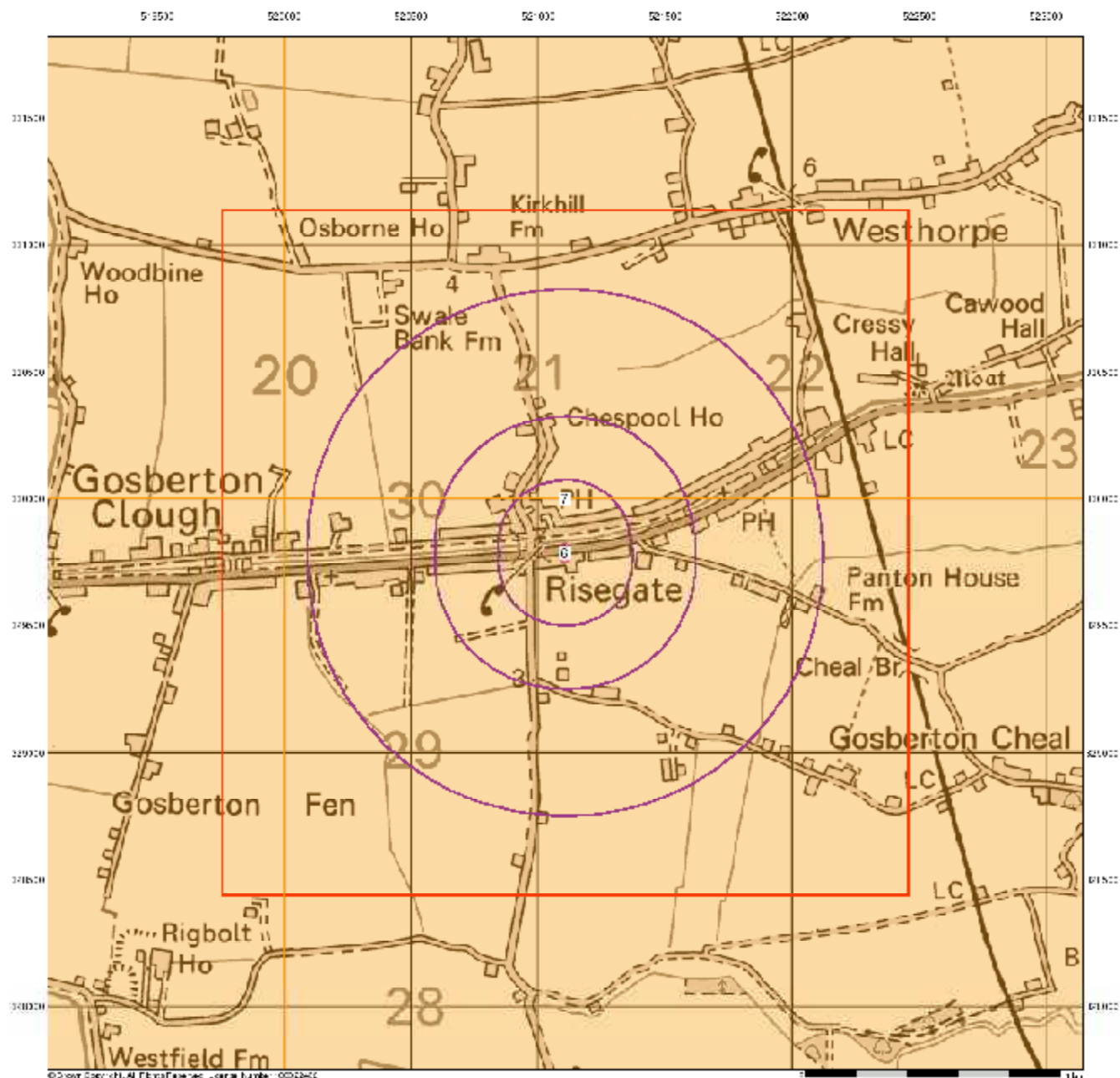
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



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Ground Stability Data (1:50,000)

General

- Aqueduct (H)
- Electric Substation
- Existing Reference Point
- Brick
- Road

Potential for Compressible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

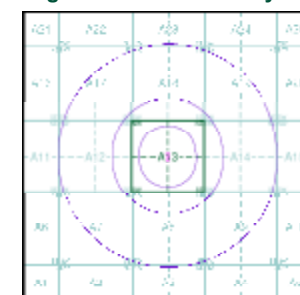
Potential for Collapsible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- | | Point | Polygon |
|-------------------------------|-------|---------|
| Brine Pumping Related Feature | | |
| Salt Mining Related Feature | | |

Mining and Ground Stability - Slice A



Order Details

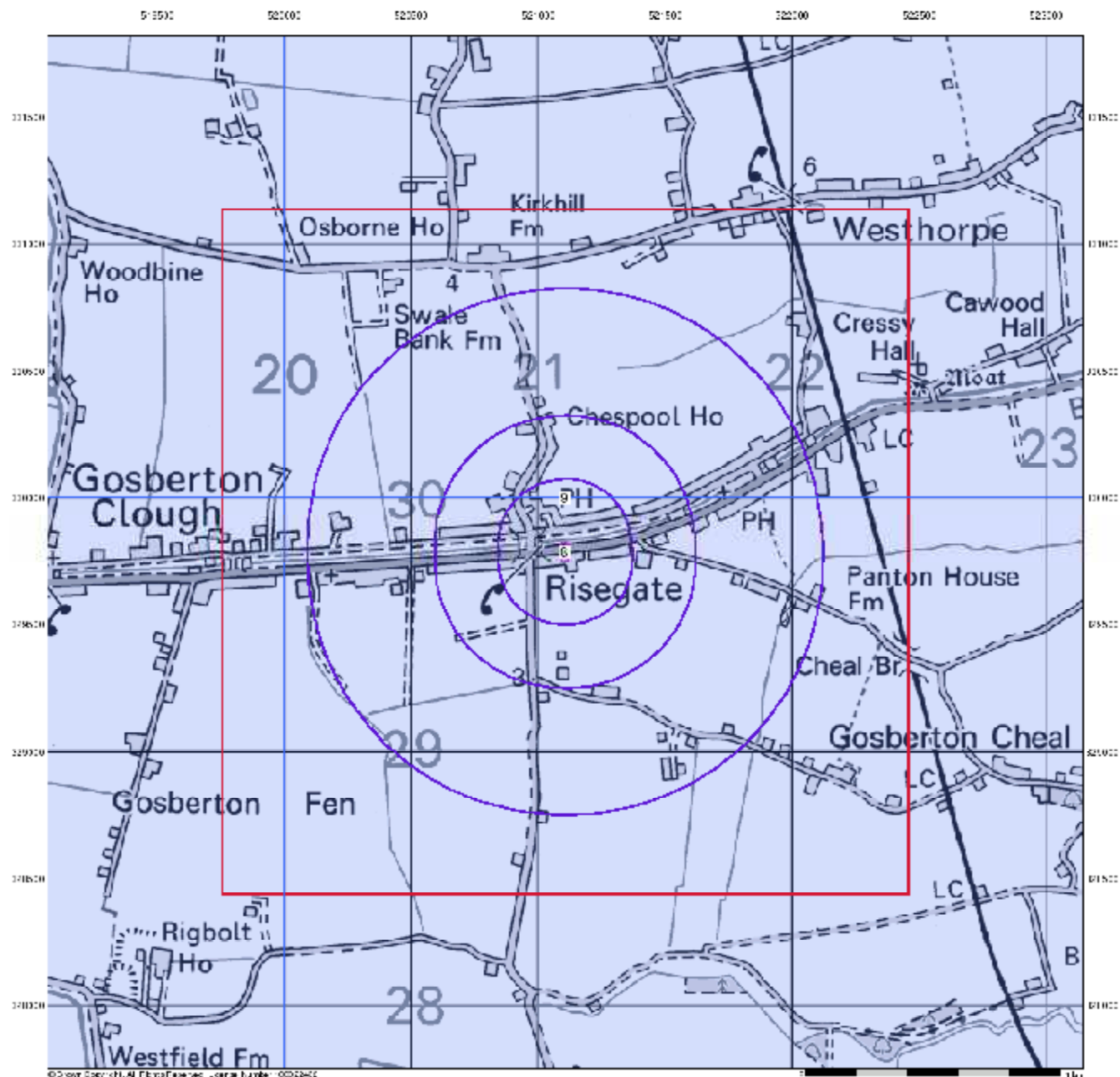
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
 INFORMATION GROUP

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



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Ground Stability Data (1:50,000)

General

- ◇ Excavated Site
- ◇ Remnant of old
- X Embankment cut
- Road
- B Rail

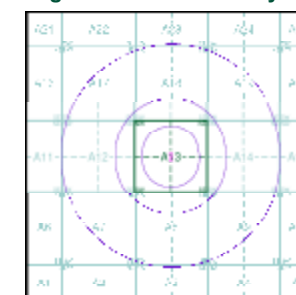
Potential for Landslide Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- ▨ High
- ▨ Moderate
- ▨ Low
- ▨ Very Low

Mining and Ground Stability - Slice A



Order Details

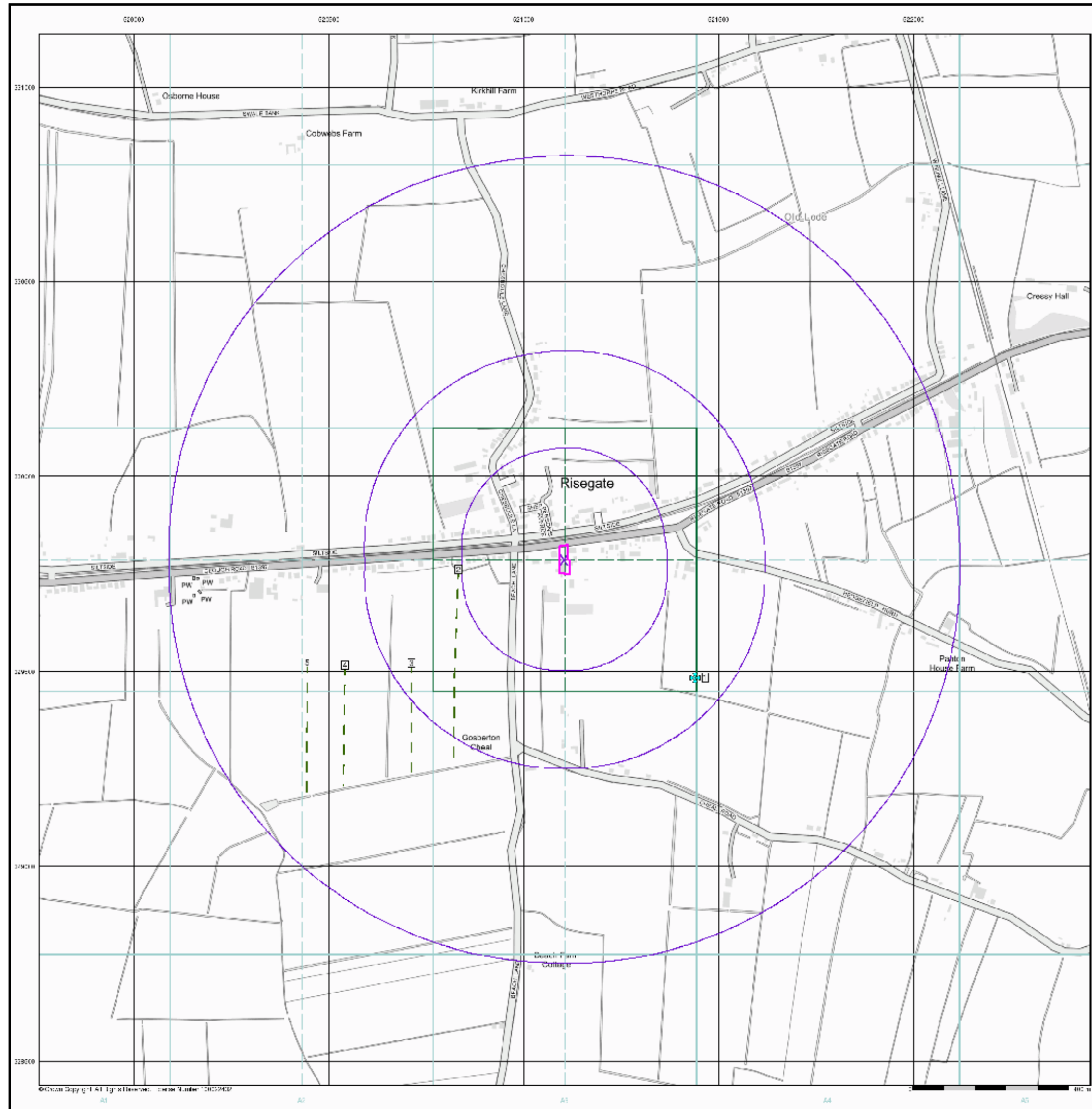
Order Number: 354284147_1_1
 Customer Ref: ED-2024-07-30
 National Grid Reference: 521100, 329790
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ

Landmark
 ENGINEERING MATERIALS
 LABORATORY LTD.

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



Historical Land Use Information (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Learning Reference Point
- Map ID
- Recreation Type

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Old Mine/Quarry			
General Quarrying			
Leap, unknown constituents			
Mined Material			
Mining and Quarrying General			
Mining and Quarrying Specific			
Overlying Surface Layer, Operation of Surface and Gravel Pits			

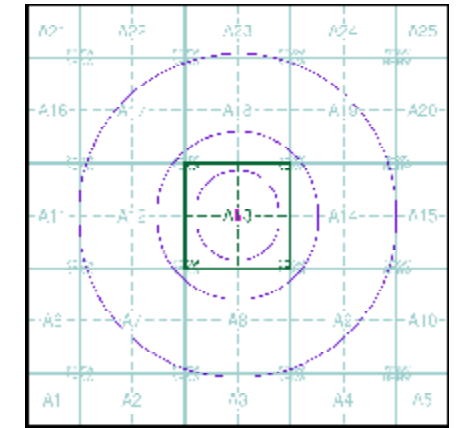
Historical Land Use

	Point	Line	Polygon
Formerly Inhabited (Non-Mining)			
Potentially Inhabited Land (Waste)			
Water Features			

Mining Data

- Federal Mining Area
- BGS Resource Mineral Site

Mining and Ground Stability - Slice A



Order Details

Order Number: 354284147_1_1
Customer Ref: ED-2024-07-30
National Grid Reference: 521100, 329790
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Land between 10 and 12, Risegate Road, Gosberton, SPALDING, PE11 4EZ



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

Appendix D
Historical BGS borehole
logs

RECORD OF WELL (SHAFT OR BORE)

TF 22 NW/9

2156 2897

At _____

Town or Village Grisberton Chere

County Lincoln (S) Six-inch quarter sheet 133NE/E

For Mr. chapman & B

Exact site of well _____

Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) _____ feet. Est 10' = 3m

Is well-top at ground level? _____ If not, state how far above; _____ feet. below;

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore _____ ft.; diameter of bore: at top _____ ins.; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes 265 ft X 2 in 24 ft X 7 in

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS Rest-level of water _____ ft. above well-top. Suction at _____ ft. Yield on _____ hours' days' Month _____ pumping 2000 gallons per hr (max. capacity of pump _____ g.p.h.), Year _____ with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS Rest-level of water in _____ (month), _____ (year), _____ ft. above well-top. Highest " in _____ (month), _____ (year), _____ ft. above below " Lowest " in _____ (month), _____ (year), _____ ft. above below " Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day. with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

J. T. BARNES & son,

Well made by _____ Date of well Apr 1924

SLEAFORD.

Information from _____

do
ADDITIONAL NOTES.

Barnesfield Hall Sleaford O.D. 13.
Visited & noted on 5" Liner 133 NE/E.
11 March
25.0.47.

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.
		<u>144</u>			



(For Survey use only)

GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA TF22NW/9

If measurements start below
ground surface, state how far... ..

THICKNESS

Feet Inches

DEPTH

Feet Inches

	Mud	(8.53)	28	(8.53)	28	Fm Chm	98
Or cl.	Clay	(40.84)	134	(49.38)	162	Oxcl - dnf	
Kilwasp	Sandstone	(3.35)	11	(52.73)	173	K18 3.35	
	Clay	(5.79)	19	(58.52)	192	K1C 5.79	
Combuck	Rock	(1.52)	5	(60.05)	197	Cb 1.52 - 57m	
	Clay	(4.57)	15	(64.62)	212	Bw C 4.57	
Q.O.L.	Rock	(3.05)	10	(67.67)	222	Bw L 3.05	
	Clay	(10.06)	33	(77.72)	255	DE 10.01	-75m
L.L.	Oolite Limestone	(5.79)	19	(83.52)	274		X

RECORD OF WELL (SHAFT OR BORE)

TF 22/13

144



98

At _____

Town or Village Lyberton Chesh

County Lincoln (N) Six-inch quarter sheet 133NE/E

For Mr. Chapman, F. B.

Exact site of well _____

NW TF 22 NW 2156 2896.

Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) _____ feet.

Is well-top at ground level? _____ If not, state how far above ; _____ feet.
below ; _____ feet.

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore _____ ft. ; diameter of bore : at top _____ ins. ; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes 265 ft x 2 in 24 ft x 7 in

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS { Rest-level of water _____ ft. above well-top. Suction at _____ ft. Yield on _____ hours' days' pumping 2000 gallons per hr (max. capacity of pump _____ g.p.h.),
Year _____ with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS { Rest-level of water in _____ (month), _____ (year), _____ ft. above well-top.
Highest „ in _____ (month), _____ (year), _____ ft. above below „
Lowest „ in _____ (month), _____ (year), _____ ft. above below „
Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day.
with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

J. T. BARNEs & son,

Well made by _____ Date of well Apr 1924

SLEAFORD-

Information from _____

do

ADDITIONAL NOTES.

Barrowfield Hall Overflows controlled O.D 13.
Visited & sited on 6" Liner 133 NE/E.

F. B. Chapman
25.6.47.

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.
		144			



(For Survey use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA If measurements start below ground surface, state how far... ..	THICKNESS		144/98 DEPTH	
		Feet	Inches	Feet	Inches
		...	...		
	Mud	28		28	
On cl.	Clay	134		162	
Village	Sandstone	11		173	
	Clay	19		192	
Conch	Rock	5		197	
	Clay	15		212	
Q.O.L.	Rock	10		222	
	Clay	33		255	
h.L	Oolite limestone	19		274	x

TF 23SW/5

2045. 3135

At Goos
Town or Village Goos
County Lincoln (S) Six-inch quarter sheet 12S SE/E
For Mr. Peake Bros

31A

Exact site of well see b.m. map.

{ Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) c. 11 feet. 3.35m

Is well-top at ground level? If not, state how far above ; feet.
below ; feet.

Shaft ft., diameter ft. Details of headings

Bore ft. ; diameter of bore : at top ins. ; at bottom ins.

Lengths, diameters, perforations, etc., of lining tubes 2 1/2" X 2 1/2"

Water struck at depths, below well-top, of (feet)

Overflows.

TEST DETAILS { Rest-level of water ft. above well-top. Suction at ft. Yield on hours' days'
Month pumping 4000 gallons per hr (max. capacity of pump g.p.h.),
Year with depression of feet. Recovery to in mins. hours.

WORKING CONDITIONS { Rest-level of water in (month), (year), ft. above well-top.
Highest in (month), (year), ft. above below "
Lowest in (month), (year), ft. above below "
Suction at ft. Rate of pumping galls. per for hours per day.
with average depression of ft. Recovery to in mins. hours

Quality of water (attach copy of analysis if available)

Well made by J. T. DARRIES & SON, Date of well c/1922
Information from SLEAFORD.

ADDITIONAL NOTES.

Rough-sited by Messrs. Peake on 1" Pap. Sh. 55 at Vicarage House Lane, 2 mi. W.S.W. of Sleaford Church. [see a.w.w., April 1947]

drilled and sited.

Above bore (A) still in use. water overflows.

An second early bore (B) was put down (see six inch map) but the tubes broke during construction & the above bore had to be made.

£. 24.6.47

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map. on 6" Map.	
<u>before June 1947</u>		<u>144</u>			<u>⊙</u>



TF 23 SW/5.

CLASSIFICATION

If measurements start below
ground surface, state how far... ..

Feet Inches Feet Inches

	Silt	7	2 13m	Fen Clay
	Mud	14	6 40m	
OXFORD	Clay	108	39 32m	Oxq
Kellaways	Sandstone	12	42 98m	Kis 3.46
	Clay	11	46 33m	Kici 3.38
Cambrask	Rock	7	48 46m	Cb 2.13
	Clay	17	53 64m	PnC 5.19
S.O.L.	Rock	12	57 30m	BuL 3.66
	Clay	27	65 53m	VE 8.28
	Caliche Limestone	55	82 30m	Lbt 16.82

RECORD OF WELL (SHAFT OR BORE)

144



At 57 Camp Farm
Town or Village Goosington
County Lincoln (S) Six-inch quarter sheet WS SE/E
For Peake Bros

TF 23/7 31A

Exact site of well see 6 in. map.
NGR (A) TF 23 SW 2044 3134.
(B) TF 23 JW 2051 3130.

(Attach a tracing from a map, or a sketch-map, if possible.)

Level of ground surface above sea-level (O.D.) c. 11 feet.

Is well-top at ground level? If not, state how far above ; feet.
below ; feet.

Shaft ft., diameter ft. Details of headings

Bore ft. ; diameter of bore : at top ins. ; at bottom ins.

Lengths, diameters, perforations, etc., of lining tubes 2 1/2" x 2 1/2"

Water struck at depths, below well-top, of (feet)

overflows.

TEST DETAILS { Rest-level of water ft. above well-top. Suction at ft. Yield on hours' days'
Month pumping 4000 gallons per hr (max. capacity of pump g.p.h.),
Year with depression of feet. Recovery to in mins. hours.

WORKING CONDITIONS { Rest-level of water in (month), (year), ft. above well-top.
Highest in (month), (year), ft. above below "
Lowest in (month), (year), ft. above below "
Suction at ft. Rate of pumping galls. per for hours per day.
with average depression of ft. Recovery to in mins. hours

Quality of water (attach copy of analysis if available)

Well made by J. T. BARNES & son, Date of well c 1922
Information from SLEAFORD.

ADDITIONAL NOTES.

Rough-sited by Messrs Barnes on 1" Pap. Sh. 55 at Vicarage Farm, 2 mi WSW. of Goosington Church. [see a.w.w., April 1941]

visited and sited.

Above bore (A) still in use. water overflows

An early bore (B) was put down (see six inch map) but the tubes broke during construction + the above bore had to be made

B. 24.6.47

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol on 1" Map.	on 6" Map.
<u>Before June 1947</u>		<u>144</u>			<u>⊙</u>



(For Survey use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA If measurements start below ground surface, state how far... ..	THICKNESS		DEPTH	
		Feet	Inches	Feet	Inches
		...	...	...	...
	Silt	7		7	
	Mud	14		21	
OXFORD	Clay	108		129	
Kiloways	Sandstone	12		141	
	Clay	11		152	
Coarse sand	Rock	7		159	
	Clay	17		176	
S.O.L.	Rock	12		188	
	Clay	27		215	
LL	Coarse Limestone	55		270	

TF 12 NE/5

1948. 2978.

1444 144. Y
100

At Shepton Clough
Town Shepton Clough
County Wiltshire Six-inch quarter sheet 125 SE/E
For Mr. John Smith

Exact site of well see six inch map. (Attach a tracing from a map, or a sketch-map, if possible.)

Level of ground surface above sea-level (O.D.) 910 feet. 3m

Is well-top at ground level? If not, state how far above ; feet.
 below ; feet.

Shaft ft., diameter ft. Details of headings

Bore ft. ; diameter of bore : at top ins. ; at bottom ins.

Lengths, diameters, perforations, etc., of lining tubes 22' X 7"

Water struck at depths, below well-top, of (feet)

TEST DETAILS Rest-level of water overflows ft. above well-top. Suction at ft. Yield on hours' days'
Month pumping 2000 gallons per hour (max. capacity of pump g.p.h.),
Year with depression of feet. Recovery to in mins. hours.

WORKING CONDITIONS Rest-level of water in (month), (year), ft. above well-top.
Highest " in (month), (year), ft. above below "
Lowest " in (month), (year), ft. above below "
Suction at ft. Rate of pumping galls. per for hours per day.
with average depression of ft. Recovery to in mins. hours

Quality of water (attach copy of analysis if available)

J. T. BARNES & son (No 184)
Well made by SLEAFORD Date of well c 1929
Information from

do
ADDITIONAL NOTES.

visited and filled.
Well still in use - and overflows -
Water o.k. for drinking. 24.6.47

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.B. Map No.	1" O.N. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.
<u>Before</u> <u>1947</u>		<u>144</u>		<u>⊙</u>	<u>⊙</u>

TF 12 NE/5.

CLASSIFICATION	Measurements start below ground surface, state how far... ..	feet	inches	feet	inches
		...	...	...	...
	16	22	22	22	22
Orcl	clay	102	124	124	124
Kellaways	thin sandstone	14	139	139	139
	clay	7	148	148	148
Conlsh	black	5	150	150	150
	clay	20	170	170	170
So.L	black	12	182	182	182
	clay	24	206	206	206
L.L	white	4	210	210	210

RECORD OF WELL (SHAFT OR BORE)

At Mr. Haresign's
Gosbeaton Clough
Town or Village Gosbeaton Clough
County Lin. Six-inch quarter sheet 125 SE/E
For Mr. Haresign

144
100
TF12/33

Exact site of well see six inch map.
NGR TF 138E 1947 2977.

{ Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) 510 feet.

Is well-top at ground level? _____ If not, state how far above ; _____ feet.
below ; _____ feet.

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore _____ ft. ; diameter of bore : at top _____ ins. ; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes 22' X 7"

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS { Rest-level of water overflows ft. above well-top. Suction at _____ ft. Yield on _____ hours' days'
Month _____ pumping 2000 gallons per hour (max. capacity of pump _____ g.p.h.),
Year _____ with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS { Rest-level of water in _____ (month), _____ (year), _____ ft. above well-top.
Highest „ in _____ (month), _____ (year), _____ ft. above below „
Lowest „ in _____ (month), _____ (year), _____ ft. above below „
Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day.
with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

Well made by J. T. BARNES & son (No 129) Date of well c 1929
SLEAFORD-
Information from _____

do
ADDITIONAL NOTES.

bricked and cased.
Well still in use - and overflows -
Water O.K. for drinking. 24.6.47

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.
<u>Before</u> <u>1947</u>		<u>144</u>		<u>○</u>	<u>○</u>



(For Survey use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA If measurements start below ground surface, state how far... ..	THICKNESS		DEPTH	
		Feet	Inches	Feet	Inches
		...	...	...	...
	144 (100)				
	216	22		22	
Or. cl.	Clay	102		124	
Kellaways	Sandstone	14		138	
	Clay	7		145	
Crinoid	Rock	5		150	
	Clay	20		170	
Gal.	Rock	12		182	
	Clay	24		206	
Lt.	Gr. like	4		210	x

Appendix E
Zetica® UXO Bomb Risk Map

UNEXPLODED BOMB RISK MAP



SITE LOCATION

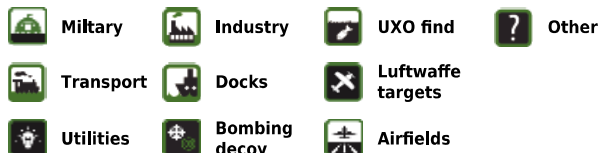
Map Centre: 521679,329998



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

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



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

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

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

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

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

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