

FEZ Holbeach

Phase 1 Geo-environmental and Geotechnical Desk Study
Report

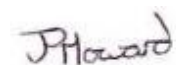
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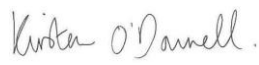
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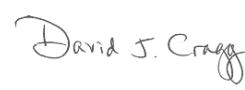
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60550563/HOLB/01	– FEZ Holbeach Site Location
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60550563/HOLB/03	– Conceptual Site Model

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Appendix A	– Envirocheck Report
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1. Introduction

1.1 Purpose of Report

AECOM Infrastructure & Environment UK Ltd (hereafter referred to as “AECOM”) was commissioned by Lincolnshire County Council to undertake a Phase 1 Geo-environmental and Geotechnical Desk Study Report for the Food Enterprise Zone (FEZ) Holbeach site in South Lincolnshire.

The Phase 1 report aims to identify potential contamination issues from current and historic land use, which may be related to on and off-site sources. This report will also provide a preliminary assessment of the geotechnical factors which have the potential to affect a future development scheme. In addition, and where it is required, further details of any necessary ground investigation and associated monitoring will be provided.

This Phase 1 Geo-environmental and Geotechnical assessment will review the existing information and proposals for the site. The assessment encompasses the following:

- Geological conditions;
- Hydrology and hydrogeology;
- Contaminated land;
- Environmental risk assessment;
- Geotechnical assessment; and
- An outline of the ground investigation proposals.

1.2 Proposed Development

This report refers to the proposed development for the FEZ Holbeach site, located west of the A151 and east of Hungerdike Gate Road, in Holbeach, South Lincolnshire. It is intended that the site will be developed for office accommodation or other industrial use. The site covers 3.49ha (hectares). This Phase 1 report will support the planning application for works on the site. The proposed development plan can be found in Drawing 60550563/HOLB/02.

1.3 Methodology

The assessment presented in this report and the recommendations provided have been prepared in accordance with the following guidance:

- Association of Geotechnical and Geo-environmental Specialists ‘Guidelines for Combined Geo-environmental and Geotechnical Investigations’;
- Contaminated Land Report (CLR) 11 ‘Model Procedures for the Management of Land Contamination’ (2004);
- BS10175:2011+A2:2017 ‘Investigation of Potentially Contaminated Sites – Code of Practice’;
- British Standards Institute (2015) ‘BS5930: Code of Practice for Site Investigations’;
- Environment Agency’s (2002) ‘TR P5-065/TR: Technical Aspects of Site Investigations (volumes 1 and 2)’;
- BSEN 1997-2:2007 ‘Eurocode 7: Geotechnical Design Ground Investigation and Testing’;
- DEFRA Circular 01/2006 ‘Environmental Protection Act 1990 Part 2a Contaminated Land’ (2006); and
- Environment Agency (EA): ‘The Environment Agency’s Approach to Groundwater Protection’ (2018, v 1.2) and position statements.

This report considers the implications of Part 2A of the Environmental Protection Act 1990 and the associated Contaminated Land (England) Regulations 2006 and the Contaminated Land (England) (Amendment) Regulations 2012.

To achieve the stated objectives, the following tasks have been performed:

- A review of the geological, hydrological and hydrogeological setting across the proposed site, together with public domain geo-environmental information to build an accurate understanding of the site and surrounding environmental setting/sensitivity;
- A review of historical land uses for the site and surrounding areas with a particular emphasis on identifying potential ground hazards and potential on-site and off-site contamination sources;
- Preparation of a Conceptual Site Model with a view to identifying any significant source-pathway-receptor linkages followed by a quantitative risk assessment; and
- A review of potential geotechnical constraints.

1.4 Information Sources

The information and documents reviewed for the purpose of this report are given below:

- British Geological Survey Solid and Drift Geological Map for Spalding (Sheet 144) 1:50,000;
- British Geological Survey (BGS) website (www.bgs.ac.uk) (last accessed 24/01/2019);
- Environment Agency (EA) website (<https://www.gov.uk/check-local-environmental-data>) (last accessed 24/01/2019);
- Envirocheck Report, Landmark Group, 22nd January 2019, Order No. 191780895_1_1 (Appendix A);
- MAGIC website (www.magic.defra.gov.uk) (last accessed 24/01/2019);
- Topographic map website (<http://en-gb.topographic-map.com/places/Holbeach-6901580/>) (last accessed 23/01/2019); and
- Zetica website (<https://www.zetica.com/downloads-and-resources/risk-maps>).

2. Environmental Setting

2.1 General

The environmental setting of the proposed development site is of importance because the topography, geology, hydrogeology and hydrology of the site and surrounding land are the main factors that influence the ways in which any contaminants contained within the soil or groundwater can migrate on/off-site, and potentially affect identified receptors.

2.2 Site Location

The proposed development site is located in the Holbeach area in South Lincolnshire. The site lies between the A151 and a track known as Hungerdike Gate, approximately 15km southwest of the east coast of England (The Wash) and 9.10km northeast of Spalding. The centre of the Holbeach site can be located at National Grid Reference TF347256 (E534711, N325601). The location of the site is presented in Drawing 60550563/HOLB/01.

2.3 Site Description

The proposed 3.49 Ha development site currently consists of one arable field. A site layout is presented in Drawing 60550563/HOLB/02.

2.4 Surrounding Land Uses

Adjacent to the southern boundary of the site is the Rose View Drive residential travellers' site. The Frontier Agriculture site, which is described as a chemical merchant specialising in seed supply, crop protection products and fertilisers, is located adjacent to the northern site boundary. The website for the company can be found here: <https://www.frontierag.co.uk/>. Further residential areas can be found 470m east of the site, along with agricultural fields in all locations around the site boundaries.

The A151 runs along the eastern boundary of the site and meets the A17 approximately 200m northeast of the site.

2.5 Regional Unexploded Bomb Risk

The Holbeach site is identified as falling within a low bomb risk area based on information obtained from the Zetica website. However, approximately 9km southwest of the site, in Spalding, there are industrial sites which were potentially targeted during the Second World War.

2.6 Site Walkover

Although a site walkover was not undertaken, analysis of the site was undertaken using Google maps and the Envirocheck Analysis online application by an AECOM representative on 22nd January 2019. This comprised of a visual inspection of the site and the immediate surroundings to identify any potential contamination sources as well as possible indicators of contamination and other potential impacts to the proposed developments, along with potential geotechnical constraints. The following section details information obtained and observations made during the site analysis.

Google maps and the Envirocheck Analysis Online Tool indicated that the site consisted of arable land with a footpath along its southern boundary (see Figure 1).



Figure 1. The FEZ Holbeach site boundary (indicated by the solid red line), showing that the site comprises an agricultural field.

Hedgerows line the southern and western boundaries. A sporadic line of trees is identified along the eastern boundary and the A151 is adjacent to the eastern boundary. Additionally, an electricity pylon with wires which project into the site from the A151 was identified on the eastern boundary (see Figure 2).



Figure 2. A screen capture taken from the eastern boundary of the site, showing the electricity pylon and wires.

Since 2017, a series of road upgrades have been undertaken in the area. North of the site, a three-arm roundabout was constructed connecting the A17 and A151, and a four-arm roundabout was constructed on the A17, at the site entrance. It is unknown whether there has been any land use changes to the proposed development site as a result of these construction works.

2.7 Topography

Contours shown on the topographic map on the online topographic-map viewer indicate that the proposed development site is generally flat, with contours ranging from approximately 4.0m AOD to 4.5m AOD across the area.

2.8 Geology

For the geological assessment of the site, the BGS 1:50,000 Sheet 144 (Spalding) and the GeoIndex Map on the BGS website (accessed 23/01/2019) were reviewed.

2.8.1 Made Ground

No Made Ground/Infilled Ground was recorded within the site boundaries of the proposed development area; however, several Made Ground deposits were identified approximately 1km northwest.

2.8.2 Superficial Deposits

Superficial Tidal Flat Deposits (Clay and Silt) is identified within the site boundary and the immediate surroundings. These deposits are described by the BGS Lexicon as '*a consolidated soft silty clay, with layers of sand, gravel and peat*'.

2.8.3 Bedrock Geology

The principal bedrock type identified on-site, and within a 1km radius of the site boundaries, is the West Walton Formation (Mudstone and Siltstone) of Jurassic age, described by the BGS Lexicon as a '*calcareous mudstone, silty mudstone and siltstone, with subordinate fine-grained sandstones and argillaceous limestone or siltstone nodules*'.

2.8.4 Geological Faults

No significant faults have been noted within the proposed development site or within a 1km radius of its boundaries on the BGS 1:50,000 Sheet 144 map or BGS Online GeoIndex mapping tool.

2.8.5 Mining

The Envirocheck Report indicates that the site is not within an area which may be affected by coal mining. Therefore a Coal Authority Mining Report was not needed. Additionally, according to the Envirocheck Report (191780895_1_1), there are no BGS Recorded Mineral Sites within a 1km radius of the site boundaries.

2.8.6 BGS Boreholes

The Envirocheck Report identified 8 historical boreholes within a 1km radius of the site. Five of the borehole records are confidential; therefore only 3 borehole logs could be reviewed. The details of these are presented in Table 1.

Table 1. Summary of Historical Borehole Records

Borehole	Description
TF32NW1	Topsoil encountered to a depth of 0.3m bgl; fine yellow brown silt (considered to be Tidal Flat Deposits) to a depth of 2.13m bgl; and medium density to compact fine grey sandy silt (considered to be Tidal Flat Deposits) to a depth of 12.19m bgl. Groundwater encountered at roughly 1.8m bgl.
TF32NW2	Topsoil encountered to a depth of 0.61m bgl; medium density brown mottled sandy silt to a depth of 3.05m bgl (considered to be Tidal Flat Deposits); medium density dark blue silty sand (considered to be Tidal Flat Deposits) to a depth of 3.66m bgl; and medium density brown silty sand (considered to be Tidal Flat Deposits) to a depth of 12.19m bgl.
TF32SW6	Topsoil encountered to a depth of 0.46m bgl; loose fine yellow grey sandy silt (considered to be Tidal Flat Deposits) to a depth of 2.74m bgl; and loose to compact fine grey silty sand (considered to be Tidal Flat Deposits) to a depth of 12.19m bgl. Groundwater encountered at roughly 1.8m bgl.

2.8.7 Potential for Natural Ground Hazards

The following potential for Natural Ground Hazards were identified for the FEZ Holbeach site and the surrounding area and is based on information provided by the Envirocheck Report (191780895_1_1):

- Collapsible Ground Stability Hazard – No Hazard;
- Compressible Ground Stability Hazards – Moderate;
- Ground Dissolution Stability Hazards – No Hazard;
- Landslide Ground Stability Hazard – Very Low;

- Running Sand Ground Stability Hazard – Moderate;
- Shrinking or Swelling Clay Ground Stability Hazard – Low; and
- Risk from Non-Coal Mining Areas – No Risk.

2.9 Hydrogeology

2.9.1 General

Superficial Geology

The site overlies superficial Tidal Flat Deposits that are designated unproductive strata (Envirocheck Report 191780895_1_1). No superficial Principal or Secondary aquifer is identified on-site or within a 1km radius of its boundaries (MAGIC website)

Bedrock Geology

The bedrock geology of the West Walton Formation is designated unproductive strata (Envirocheck Report 191780895_1_1). No bedrock Principal or Secondary aquifer is identified on-site or within a 1km radius of its boundaries (MAGIC website).

2.9.2 Groundwater Vulnerability

The FEZ Holbeach site has been classified as being within a 'Non-Aquifer area' and therefore no groundwater vulnerability is associated with the area (MAGIC website, Envirocheck Report 191780895_1_1).

2.9.3 Groundwater Source Protection Zones (SPZ)

The site does not lie within any Groundwater Source Protection Zones (Envirocheck Report 191780895_1_1).

2.10 Hydrology

One surface water body is located on-site. This is an unnamed drain which runs along the eastern boundary of the site. Additionally, there are drains in all directions around the site boundaries, including one approximately 25m north. The closest significant water bodies are the New River (Drain), approximately 85m east of the site, the Whaplode River approximately 840m west and the Holbeach River approximately 650m northeast of the site boundaries.

The FEZ Holbeach site is within the Anglian River Basin District and the Welland Lower operational catchment. The Environment Agency states that the surface waters within this area are all of good chemical status.

The site lies in an area which is at risk from extreme flooding from rivers or seas without defences (Envirocheck Report (191780895_1_1)).

3. Summary of Environmental Information

All of the information detailed in the following sections is provided in the Envirocheck Report (191780895_1_1).

3.1 Water Abstractions

There are no water abstraction licences located on-site, however there is one surface and one groundwater abstraction within a 2km radius of the site boundaries. Details of these are presented in Table 2.

Table 2. Abstraction Licenses

Distance from the site boundary	Operator	Location	Abstraction	Source	Permit Start Date	Permit End Date
1,594m (N)	D R Bridger Esq	Well Crown Farm, Holbeach Clough	General Agriculture	Well/Borehole	Not Supplied	Not Supplied
1,607m (E)	F Pennington & Son (Holbeach)	Ogdens Dyke, Holbeach	Spray Irrigation	Stream	Not Supplied	Not Supplied

3.2 Discharge Consents

There are no discharge consents associated with activities within the site boundaries. However, there are 12 located within 250m of the site, a further 2 within 500m and a further 15 within 1km. Details of the consents located within 500m of the site boundaries are summarised in Table 3 below.

Table 3. Discharge Consents

Distance from the site boundary	Operator	Location	Discharge Type	Receiving Water	Status
10 discharge consents between 42 and 72m (SE)	South Holland District Council	Plots 1-10 of the Traveller Site: Rose View Drive, Holbeach, Spalding, Lincolnshire	Sewage Discharges – Final/Treated Effluent	Tributary to Holbeach River	New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)
54m (NE)	Frontier Agriculture Ltd	Distillery Farm Off A151, Holbeach, Lincolnshire	Trade Discharge – Process Water	Tributary of River Whaplode	New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)
54m (NE)	Frontier Agriculture	Distillery Farm Off A151, Holbeach, Lincolnshire	Sewage Discharges – Final/Treated Effluent	River Whaplode	New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)
447m (W)	Mr & Mrs Crane	Ropers Gate Lutton, Spalding, Lincolnshire	Sewage Discharges – Final/Treated Effluent	Land Soakaway	Post National Rivers Authority Legislation where issue date > 31/08/1989
489m (SE)	Mr A A Brooks	Lambleys Mill Cottage Garden, Northone Lane, Holbeach, Lincolnshire	Not Supplied	Not Supplied	Post National Rivers Authority Legislation where issue date >31/08/1989

3.3 Pollution Incidents to Controlled Waters

There have been no recorded pollution incidents on-site or within a 1km radius of the site boundaries.

3.4 Local Authority Pollution Prevention and Controls

There are no Local Authority Pollution Prevention and Controls on-site or within a 1km radius of the site boundaries.

3.5 Potentially Hazardous Sites

There are no potentially hazardous sites within the site boundaries; however, there is one 94m north. This is at the Frontier Agriculture Ltd site which is registered as an active Control of Major Accident Hazards (COMAH) site.

3.6 Contemporary Trade Land Use

There are 3 Contemporary Trade Land Directory Entries located within a 500m radius of the site boundary and a further 14 within a 1km radius. A summary of the entries within a 500m radius are summarised as follows:

- Sam Ltd (Industrial and Commercial Machinery Services), 94m (NE) (Inactive);
- Frontier Agriculture Ltd (Chemicals – Distributors and Wholesalers), 94m (NE) (Active); and
- Vitro Botanics (Horticulture Equipment Maintenance & Repair), 410m (SE) (Active).

3.7 Recorded Landfill Sites

There are no BGS Recorded Landfill sites located on-site or within a 1km radius of the site boundaries.

3.8 Registered Landfill Sites

There are no Registered Landfill sites located on-site or within a 1km radius of the site boundaries.

3.9 Historic Landfill Sites

There are 2 historic landfill sites recorded within a 1km radius of the site boundaries. Both records are identified as the Main Road Historic Landfill Site, and are located approximately 662m southwest and 802m south. Both of these sites accepted household waste. The dates of their operation and the name of their license holder(s) are unknown.

3.10 Licensed Waste Treatment Facilities

There are no Licensed Waste Treatment Facilities located on-site or within a 1km radius of the site boundaries.

3.11 Registered Waste Treatment or Disposal Sites

There are no Registered Waste Treatment or Disposal Sites located on-site or within a 1km radius of the site boundaries.

3.12 Registered Waste Transfer Sites

There are no Registered Waste Transfer Sites located on-site or within a 1km radius of the site boundaries.

3.13 Potentially Infilled Land

There are no areas of Potentially Infilled Land located on-site. However there is one Potentially Infilled (Water) Area (pond, marsh, river, stream, dock etc.) within 500m of the site and a further 11 within 2km.

3.14 Radon

The site and surrounding region is within a low probability radon area where less than 1% of the homes are estimated to be at or above the Action Level. Therefore no radon protective measures are necessary in the construction of new dwellings or extensions.

3.15 Sensitive Land Use

The site is located within a Nitrate Vulnerable Zone (NVZ). No other sensitive land uses are identified within a 1km radius of the site.

4. Historical Land Use

Historical mapping has been reviewed to assess the potential for past activities, both on and adjacent to the site to have impacted upon the site's environmental and land quality. Historical Ordnance Survey (OS) maps of the site were obtained as part of the Envirocheck Report (191780895_1_1).

A summary of historical land uses is presented in Table 4. This table describes significant changes in industry and land development within the site boundary from 1887 (first available mapping date) to the present day and significant off-site development within 500m of the site boundaries. This overview of historical land uses has an emphasis on land uses which could have contributed to land contamination. The table describes the main features present on the site and the nearby surroundings. Where dates are given, these refer to the dates on the maps on which the features appear and do not necessarily refer to the exact date of the operations at any particular facility.

Table 4. Review of the Historical Ordnance Survey Maps

Date	Scale	On-site	Off-site (≤1km)
1887	1:10,560	The site consists of agricultural fields.	The Hungerdike Gate track runs adjacent to the western boundary of the site, along with Watson's Grave. The site is surrounded by agricultural fields in all directions. Gander Ground is adjacent to the southern boundary and Welbourn Road is southeast. Approximately 250m northeast is Bailey's Grave and the Botanic gardens, whilst Freeman's Bridge lies approximately 320m southeast. From Freeman's Bridge, Northon's Lane leads to the Holbeach village which is approximately 1km southeast. Approximately 750m south, along West Street, are a series of farmhouses.
1906	1:10,560	The site still consists of agricultural fields but has a public footpath running through the southern and western boundaries.	A large orchard is shown south of the Botanic Cottage, approximately 200m east and another beside Bank Meadow Lane, approximately 500m west.
1931 - 1932	1:10,560	No significant changes.	Another orchard is shown south of Northon's Lane, approximately 750m southeast. Additionally, several residential buildings have been developed along West Street, which runs approximately 750m south.
1938 - 1952	10:10,560	No significant changes.	Holbeach Hospital and a series of residential developments are north and south of Mill Lane, approximately 520m northeast of the site.
1970 - 1977	1:10,000	A drain was identified along the southern boundary of the site.	A series of drains is shown in the area surrounding the site, including the majority of the agricultural fields in the area. Distillery Farm has been developed approximately 20m north of the site boundary. The village of Holbeach has extended west and north, to approximately 500m southeast of the site. Additionally, a sewage works can be located 850m east.
1992	1:10,000	An additional drain was identified along the eastern boundary of the site.	Further developments have been made to Holbeach village. The A17 road has been developed which runs northwest to southeast, approximately 250m northeast of the site. Additionally, the A151 was developed which runs adjacent to the eastern boundary of the site, running southwest to northeast and meeting the A17 at a T-junction.
2018	1:10,000	No significant changes.	Approximately 20m south of the site, the Rose View Drive traveller's site has been developed.

5. Conceptual Site Model

Current legislation relating to contaminated land in the UK is contained within Part 2A of the Environmental Protection Act 1990, which was inserted by Section 57 of the Environment Act 1995 and by Section 86 of the Water Act 2003, elaborated within the Contaminated Land (England) Regulations 2006 [S.I. 2006/1380] (amended 2012 [S.I. 2012/263]).

The “suitable for use” approach is adopted for the assessment of contaminated land where remedial measures are only undertaken where unacceptable risks to human health or the environment are realised, taking into account the use, or proposed use, of the land in question and the environmental setting.

Current best practice recommends that the determination of health hazards due to contaminated land is based on the principle of risk assessment, as outlined in Part 2A of the Environmental Protection Act 1990.

The risk assessment process for the environmental contaminants is based on a source-pathway-receptor analysis. These terms can be described as follows:

- **Source:** Hazardous substance that has the potential to cause adverse impacts;
- **Pathway:** Route whereby a hazardous substance may come into contact with the receptor: examples include ingestion of contaminated soil and leaching of contaminants from the soil into watercourses;
- **Receptors:** Target that may be affected by contamination: examples include human occupants/users of site, water resources (surface waters or groundwater), or structures.

For a risk to be present, there must be a viable contaminant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

The following sections detail the conceptual site model, which has been developed for the proposed development site with the view to assessing the potential risks during construction and upon completion of the proposed new development. The potential sources of contamination, potential receptors and potential pollutant pathways are identified in Sections 5.1 to 5.3. The associated contaminant linkages between the sources, pathways and receptors are presented in Section 5.4. A visual representation of the Conceptual Site Model is presented in Drawing 60550563/HOLB/03.

5.1 Sources of Potential Contamination

This section highlights former/current on-site and off-site activities that have been identified as potential sources of contamination. These activities may have in turn affected soil, soil leachate and groundwater. A buffer of 1 km has been considered for potential sources beyond the site boundary. However, only sources within 500m realistically pose the highest potential for any contamination to impact the site area.

Table 5. Sources of Potential Contamination

Potential Sources	Description
Made Ground	There is potential for Made Ground to be present which could contain contaminants.
Natural Strata	The underlying superficial stratum was identified as being Tidal Flat Deposits (clay and silt) which could be a potential source if they have become contaminated by other sources (such as agricultural chemicals).
Soil Leachate	Potential contaminants may be leached from soils, such as pesticides/herbicides which are likely to have been used on the agricultural land within the site boundaries.
Agricultural Land Use	The site is currently an agricultural field which could be a source of contaminants such as pesticides/herbicides from crop spraying and fuels (spillage).
Groundwater	Groundwater may be present within the underlying strata which could potentially contain contaminants.
Ground Gases	Concentrations of ground gases (methane and carbon dioxide) and other volatile gases may originate from the underlying natural strata (particularly where it has appreciable organic content).

Potential Sources	Description
Off-site sources	<p>Within 1km of the site boundaries, there are two historical landfill sites, both of which dealt with deposited household waste and could potentially be a contamination source via contaminated groundwater and ground gas.</p> <p>There are many agricultural farms surrounding the site boundaries which are likely to have used fertilisers and/or pesticides. These are a potential source of contamination via soil leachate.</p> <p>20m north of the site is the Frontier Distillery Farm which is described as a chemical merchant and is also listed as a COMAH site. This could be a potential source of contamination related to any spills or leaks.</p> <p>Additionally, the recent construction activities related to the A151 road upgrades and the travellers' residential site, adjacent to the site have the potential to cause contamination from spills, construction materials, made ground and waste storage.</p>

5.2 Potential Receptors

Table 6 lists potential receptors at and around the site.

Table 6. Description of Potential Receptors

Potential Receptors	Description
Controlled Waters	<p>The main controlled waters receptors are considered to be the unnamed drains that surround the site, including those adjacent to the site boundaries, the New River (Drain) approximately 85m east of the site boundary. ,</p> <p>Groundwater is considered to be a low sensitivity receptor as the site is not underlain by an aquifer.</p>
Development Infrastructure	<p>Concrete is a receptor of chemical aggressivity in contaminated soils with a low pH and high sulphate concentrations.</p> <p>Plastic piped services can be adversely affected by the presence of hydrocarbons and phenolic compounds, where the integrity of the pipes can be compromised. This can lead to penetration of the pipes by mobile contaminants.</p>
Future Site Users	Users of the proposed development, which are anticipated to be commercial / industrial workers and visitors.
Construction Workers	Construction and maintenance workers can be subjected to high levels of exposure to contaminated materials but over a short period of time in comparison with future site users.
Off-site receptors	This includes residents of the of the nearby housing estates, such as the adjacent travellers' site, workers and patients at the local hospital and workers in the local industries, such as the Frontier Distillery Farm located 20m north of the site.

5.3 Potential Pathways

Table 7 provides a summary of the potential pathways associated with identified sources considered most appropriate to the site in its developed condition.

Table 7. Description of Potential Pathways

Potential Pathways	Description
Soil Pathway Including the following sources <ul style="list-style-type: none"> • Soil Derived Leachate from fertilisers/pesticides • Made Ground • Natural Strata 	Dermal Contact Dermal contact with contaminated soils, soil derived leachate and perched groundwater.
	Direct Contact Direct contact of building materials with contaminated soils, soil leachate and perched groundwater.
	Ingestion Direct or indirect ingestion of soil and soil derived dust.
	Inhalation Inhalation of soil derived dust, organic vapours or generated dust.
Groundwater Pathways Including the following sources: <ul style="list-style-type: none"> • Soil Leachate from off-site Made Ground • Perched groundwater within the natural ground 	Rainfall infiltration and vertical / lateral migration via permeable strata Rainfall infiltration can generate and mobilise soil-derived leachate impacting on surface waters and groundwater.

Potential Pathways

Description

Gas Pathways:

Including the following sources:

- Ground gas generation from Made Ground and natural strata sources on and off-site

Vertical / lateral migration via permeable strata

Permeable strata and areas of Made Ground / natural strata may allow the transportation of ground gases.

5.4 Potential Pollutant Linkages

Table 8. Potential Pollutant Linkages

Source	Pathway	Receptor
Diffuse metal, inorganic and organic contamination within the Made Ground / natural strata / fertilisers / soils	<ul style="list-style-type: none"> • Ingestion of contaminated soil • Inhalation/ingestion of soil derived dust • Inhalation of organic vapours • Direct contact with soil/dust 	<ul style="list-style-type: none"> • Future site users • Construction workers • Off-site receptors • Development infrastructure
Generated leachate from Made Ground / natural ground / fertilisers within the soil	<ul style="list-style-type: none"> • Rainfall infiltration and vertical / lateral migration via permeable strata 	<ul style="list-style-type: none"> • Surface water courses, including the unnamed drains around the site and the New River (Drain). • Future site users • Off-site receptors
Contaminants in groundwater (perched or otherwise)	<ul style="list-style-type: none"> • Migration and diffusion 	<ul style="list-style-type: none"> • Surface watercourses and waterbodies • Groundwater • Off-site receptors
Ground gases	<ul style="list-style-type: none"> • Vertical and lateral migration of gas through permeable strata 	<ul style="list-style-type: none"> • Future site users • Off-site receptors • Construction workers • Development infrastructure
Off-site sources: Made Ground / natural strata, historic landfill sites, fertilisers / pesticides	<ul style="list-style-type: none"> • Rainfall infiltration and vertical / lateral migration of contamination through permeable strata • Vertical and lateral migration of gas through permeable strata • Migration of gases in the dissolved phase (within the groundwater) 	<ul style="list-style-type: none"> • Future site users • Construction workers • Development infrastructure

6. Environmental Risk Assessment

6.1 General

From information obtained from the desk study, a conceptual site model was developed for the site, as detailed in section 5. Based on the subsequent risk assessment, the various components of the model are discussed in the following sections to take into account the site in its current condition and future use as a commercial / industrial development. An assessment of the various pollutant linkages is presented in Table 12.

6.2 Risk Assessment Principles

Current best practice recommends that the determination of hazards due to contaminated land is based on the principle of risk assessment as outlined in Part 2A of the Environmental Protection Act 1990.

For a risk to be present, there must be a viable pollutant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway. The pollutant linkages that have been identified for this site are presented in section 5.

Assessments of risks broadly based on those presented in Section 6.3 of the CIRIA Report “Contaminated Land Risk Assessment: A Guide to Good Practice” (CIRIA Report C552) and the magnitude of the risk associated with potential contamination at the site has been assessed. To do this, an estimate is made of:

- The potential severity of the risk;
- The likelihood of the risk occurring.

The severity of the risk is classified according to the criteria in Table 9.

Table 9. Severity of Risk

Severity	Description
Severe	<ul style="list-style-type: none"> • Acute risks to human health likely to result in “significant harm” (e.g. very high concentrations of contaminants/ground gases). • Catastrophic damage to buildings/property (e.g. by explosion, sites with high gassing potential, extensive VOC contamination). • Major pollution of controlled waters (e.g. surface watercourses or principal aquifers/source protection zones). • Short term risk to a particular ecosystem.
Medium	<ul style="list-style-type: none"> • Chronic (long-term) risk to human health likely to result in “significant harm” (e.g. elevated concentration of contaminants/ground gases). • Pollution of sensitive controlled waters (e.g. surface watercourses or principal/secondary A aquifers). • Significant effects on sensitive ecosystems or species.
Mild	<ul style="list-style-type: none"> • Pollution of non-sensitive waters (e.g. smaller surface watercourses or secondary B aquifers or unproductive strata), • Significant damage to crops, buildings, structures or services (e.g. by explosion, sites with medium gassing potential, elevated concentrations of contaminants).
Minor	<ul style="list-style-type: none"> • Non-permanent human health effects (requirement for protective equipment during site works to mitigate health effects). • Damage to non-sensitive ecosystems or species. • Minor (easily repairable) damage to buildings, structures or services (e.g. by explosion, sites with low gassing potential).

The probability of the risk occurring is classified according to the criteria displayed in Table 10.

Table 10. Probability of Risk Occurring

Probability	Explanation
High Likelihood	Pollutant linkage may be present that appears very likely in the short-term and risk is almost certain to occur in the long-term, or there is evidence of harm to the receptor.
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term.
Low likelihood	Pollutant linkage may be present, and there is a possibility of risk occurring, although there is no certainty that it will do so.
Unlikely	Pollutant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.

An overall evaluation of the level of risk is gained from a comparison of the severity and probability as shown in Table 11.

Table 11. Comparison of Severity and Probability

		Severity			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	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

6.3 Evaluation of Risk

6.3.1 General Risk Assessment

An evaluation of the potential risks associated with the identified sources at the site to the various receptors is discussed and presented in the following section. The level of risk is determined based on the current condition of the site (i.e. the effects of mitigation measures are not included) and takes into account the proposed development.

The evaluation includes an assessment of the significance of the potential contaminant linkages. Where it is considered that a particular contaminant linkage is not plausible in the context of the site and the proposed development, the overall risk is determined to be very low.

Table 12. Risk Evaluation of Potential Contaminant Linkages

Source	Pathway	Receptor	Potential Contaminant Linkage	Risk Evaluation		
				Severity	Probability	Risk
Contaminants in Made Ground / Natural Strata	Direct contact / Ingestion / Inhalation	Future Site Users (Commercial)	Y	Mild	Low	Low
	Direct contact / Ingestion / Inhalation	Construction Workers	Y	Minor	Low	Very Low
	Infiltration / Migration	Controlled Waters	Y	Mild	Low	Low
	Direct contact	Development Infrastructure	Y	Minor	Low	Very Low
	Inhalation of vapours / dusts	Off-Site Receptors	Y	Minor	Low	Very Low
Contaminants in Leachate / Groundwater	Direct contact / Ingestion / Inhalation	Future Site Users (Commercial)	Y	Mild	Low	Low
	Direct contact / Ingestion / Inhalation	Construction Workers	Y	Minor	Low	Very Low
	Infiltration / Migration	Controlled Waters	Y	Mild	Low	Low
	Direct contact	Development Infrastructure	Y	Minor	Low	Very Low
	Infiltration / Off-site migration	Off-Site Receptors	Y	Minor	Low	Very Low
Ground Gas	Migration & Inhalation / Explosion	Future Site Users (Commercial)	Y	Mild	Low	Low
	Migration & Inhalation / Explosion	Construction Workers	Y	Minor	Low	Very Low
	Migration / Explosion	Development Infrastructure	Y	Mild	Low	Low
	Migration & Inhalation / Explosion	Off-site Receptors	Y	Minor	Low	Very Low
Off-site Sources (e.g. Made Ground, historical landfills)	Rainfall infiltration & Vertical / Lateral migration of contaminants via permeable strata	Controlled Waters	Y	Mild	Low	Low
	Migration & Inhalation / Explosion (gases originating from Made Ground sources - historic landfill)	Future Site Users	Y	Minor	Low	Very Low
	Migration & Inhalation / Explosion (gases originating from Made Ground sources – historic landfill)	Construction Workers	Y	Minor	Unlikely	Very Low
	Migration & Inhalation / Explosion (gases originating from Made Ground sources – historic landfill)	Development Infrastructure	Y	Minor	Low	Very Low

6.4 Evaluation of Risk to Future Site Users

The risk to future site users (commercial) from direct contact, inhalation and ingestion of contaminants in Made Ground or Natural Strata is considered to be *Low*. This is because the site has been agricultural since at least 1887. Areas of soft-standing where future site users (commercial) could come into direct contact with underlying soils will be limited to green infrastructure areas around the development. The size of the proposed green infrastructure developments has not yet been determined.

The risk of future site users (commercial) coming into contact with contaminated leachate or groundwater is considered to be *Low*.

The risk to future site users from ground gas is considered to be *Low*. There is potential for gas to be generated from the underlying natural superficial Tidal Flat Deposits or from on-site and off-site Made Ground deposits (if present). The site has been classified as being in a Low Probability Radon Area where less than 1% of the homes are estimated to be at or above the Action Level. There is *Very Low* likelihood for ground gas to be sourced from the historic landfill sites at Main Road, located approximately 662m and 802m south of the site boundaries, due to the distance from the site.

It is considered that the risk to maintenance workers accessing underground facilities will be *Very Low* as it is assumed that they will be wearing appropriate personal protective equipment and monitoring the atmospheric conditions, and that entry into the underground structures should comply with confined space legislation and assessed before entry.

6.5 Evaluation of Risks to Construction Workers

The assessment has identified a *Very Low* risk to construction workers. This takes into consideration that whilst construction / site workers might be expected to come into contact with soils, the use of personal protective equipment will be a pre-requisite to them being on-site.

Prior to work commencing, a health and safety risk assessment should be carried out in accordance with current health and safety regulations. This assessment should cover potential risks to both construction staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the course of the earthworks.

It is considered prudent that entry into excavations should comply with confined space legislation assessed prior to entry.

6.6 Evaluation of Risk to Off-site Receptors

The potential risk to off-site receptors is considered to be *Very Low*. Any risks to local off-site receptors would be associated with off-site migration, for instance, in the form of wind-blown dust and organic vapours. Exposure via inhalation of dust is considered to be negligible for off-site receptors following development works, and as such there is not considered to be a plausible pollutant linkage. The greatest potential for generation will be during the construction phase. Dust generation should be kept to a minimum in accordance with the general best practice, as outline in, for example, "Environmental Good Practice on Site", 3rd Edition, CIRIA Publication C692. Overall the risks to off-site receptors from on-site soil derived dusts are considered to be *Very Low*.

6.7 Evaluation of Risk to Controlled Waters

The risks to controlled waters from Made Ground and Natural Ground leachate and groundwater are considered to be *Low*. This is because the site has historically been used for agriculture; therefore there is low potential for contamination. Additionally, there are no underlying superficial or bedrock aquifers below the site and no groundwater Source Protection Zones (SPZs) or licenced water abstractions from groundwater located within a 500m radius of the boundaries.

Drains surround the site in all directions, as well as the New River (Drain) which is located approximately 85m east of the site, which could all potentially be affected by potential contaminants at the site. Leachate generation would more significant in any areas of soft-standing/open areas.

The risks to the drain at the eastern site boundary and groundwater underneath the site from off-site sources have been classified as *Low* as there potential for soil leachate to migrate from the Frontier Distillery Farm located approximately 20m north of the site.

6.8 Evaluation of Risk to Development Infrastructure

The risks to development infrastructure from soil, leachate and groundwater contaminants have been classed as *Very Low*. It is assumed that any potential risks would be mitigated by using concrete and service pipes appropriate for any aggressive ground conditions identified at the site.

The risk to the development from ground gases is considered to be *Low*. This is based on the underlying superficial deposits (Tidal Flat Deposits), which could potentially be a source of ground gases, and the site being within a Low Probability Radon Area. It is anticipated that the appropriate gas protection measures, where ground gas monitoring results indicate protection is necessary, will be sufficient to mitigate this potential risk. The risk to the development from off-site sources is considered to be *Very Low* as the historic landfill is over 600m away from the site.

7. Preliminary Geotechnical Appraisal

7.1 General

Historical mapping shows that the site has comprised of agricultural fields from 1887 to the present day. A drain runs along the eastern perimeter and a footpath can be identified in the southern and western areas of the site.

Based on the site history, significant deposits of Made Ground are considered unlikely, but Made Ground may be present at shallow depth. The underlying superficial deposits comprise of Tidal Flat Deposits (clay and silt) and the bedrock comprises the West Walton Formation (Mudstone and Siltstone). Superficial deposits were encountered to depths of up to at least 12.2m bgl in nearby BGS borehole records. There are no geological faults noted within the boundaries of the site.

7.2 Weak and Compressible Ground

Ground stability hazards such as collapsible ground, compressible ground, ground dissolution, landslides, running sand ground stability, and shrinking or swelling clay ground have been noted by the Envirocheck Report (191780895_1_1) as 'no hazard' to 'moderate hazard'. Moderate hazard was identified in relation to compressible ground stability and running sand ground stability hazards, most likely associated with loose granular and / or soft cohesive Tidal Flat Deposits. The site is located in an area which is not considered to be at risk from coal mining.

The main sources of geotechnical hazards are:

- Potential for deep deposits (>12m bgl) of soft / compressible ground and therefore excessive amounts of settlement due to the underlying Tidal Flat Deposits (clay and silt).
- Potential for a shallow water table and running sand hazards.

7.3 Buried Foundations

The likelihood of unknown buried foundations being present across the site is considered to be very low as there have been no structures identified on-site on any of the historical maps. The site has been used for agriculture since 1887.

Buried foundations can represent hard spots within the ground. This can cause delays where they are encountered, unforeseen, in initial foundation ground works as they need to be broken out. When left in place, buried foundations can also provide differential settlement in new structures, leading to cracking and damage to the new construction.

7.4 Aggressive Ground Conditions

There are two types of aggressive ground conditions that may be present at the site.

The first relates to natural sulphates that in sufficient quantities may be aggressive to concrete and steel causing degradation and damage. This can be overcome through the specification of more resistant concrete and anti-corrosion measures on steel, but requires testing and assessment of the soils beneath the site in order to determine the level of risk.

The second area with potential for aggressive ground conditions relates to contamination. This can affect several areas of construction but a common example is where hydrocarbons are present in the soils that can cause damage to plastic utility pipes. These issues have been considered in more detail in the Environmental Risk Assessment presented in Chapter 6.

8. Conclusions and Recommendations

8.1 Conclusions

A geo-environmental and geotechnical desk study has been carried out for the proposed development at the FEZ Holbeach site in South Lincolnshire.

Historical maps indicate that the site has comprised of agricultural fields from 1887 to present day, with a drain running along the eastern boundary, and a footpath in the western and southern area. Since 2017, a series of road upgrades have taken place in close proximity to the site, including a three-arm roundabout connecting the A17 and the A151 and a four-arm roundabout on the A17.

Based on the site history, significant deposits of Made Ground are considered unlikely, but Made Ground may be present at shallow depth. Superficial Tidal Flat Deposits comprising of clay and silt underlay the site. Below this, lies the West Walton Formation bedrock geology (mudstone and siltstone). Neither the superficial deposits nor the bedrock strata have aquifers associated with them, and there are no geological faults recorded on-site or in the immediate surroundings. The site does not lie within a groundwater Source Protection Zone.

The site is surrounded by unnamed drains which could be potential receptors for contaminants on the site. Other than these, the most significant water bodies are the New River (Drain), approximately 85m east of the site. The site lies within an areas at risk from extreme flooding from rivers or seas without defences.

Two historical landfill sites known as the Main Road Historic Landfills were located 662m southwest and 802m south of the site boundaries respectively.

It is considered, based on the information obtained, that the geo-environmental risks to future site users are *Low* to *Very Low*. The potential for future site users to come into contact with the underlying soils and coming into contact with any potential contaminants in leachate is considered to be *Low*, and whilst the underlying Tidal Flat Deposits may be a source of ground gas, it is considered that the site will have a *Low* gassing potential.

The risks to controlled waters are considered to be *Low*. This is because the site has historically been used for agriculture; therefore there is low potential for contamination. Additionally, there are no underlying superficial or bedrock aquifers below the site and no groundwater Source Protection Zones (SPZs) or licensed water abstractions from groundwater located within a 500m radius of the site boundaries.

The risks to construction workers and off-site receptors are considered to be *Very Low*. This takes into consideration that whilst construction/site workers might be expected to come into contact with soils, the use of personal protective equipment will be a pre-requisite to them being on-site.

The risks to development infrastructure are considered to be *Very Low*, as any potential risk would be mitigated by the used of infrastructure material appropriate for aggressive ground conditions.

Ground stability hazards in terms of collapsible ground, compressible ground, ground dissolution, landslides, running sand ground and shrinking or swelling clay ground have been classified as having 'no hazard' to 'moderate hazard'. Moderate hazard was identified in relation to compressible ground stability and running sand ground stability hazards. The site is located within an area which is not considered to be at risk from coal mining.

8.2 Recommendations

It is recommended that a Phase 2 ground investigation of the site is undertaken to assess the geo-environmental, geotechnical and mining issues, with particular attention to the following:

- Investigate the nature of the underlying natural ground (Tidal Flat Deposits), including determination of in-situ properties;
- Investigate depths to the rockhead (West Walton Formation);
- Obtain soil and groundwater samples for chemical and geotechnical testing;
- Install gas and groundwater monitoring wells and undertake monitoring of ground gas concentrations and groundwater levels;
- Undertake a range of suitable soil, leachate and groundwater chemical tests, including BRE sulphate tests.

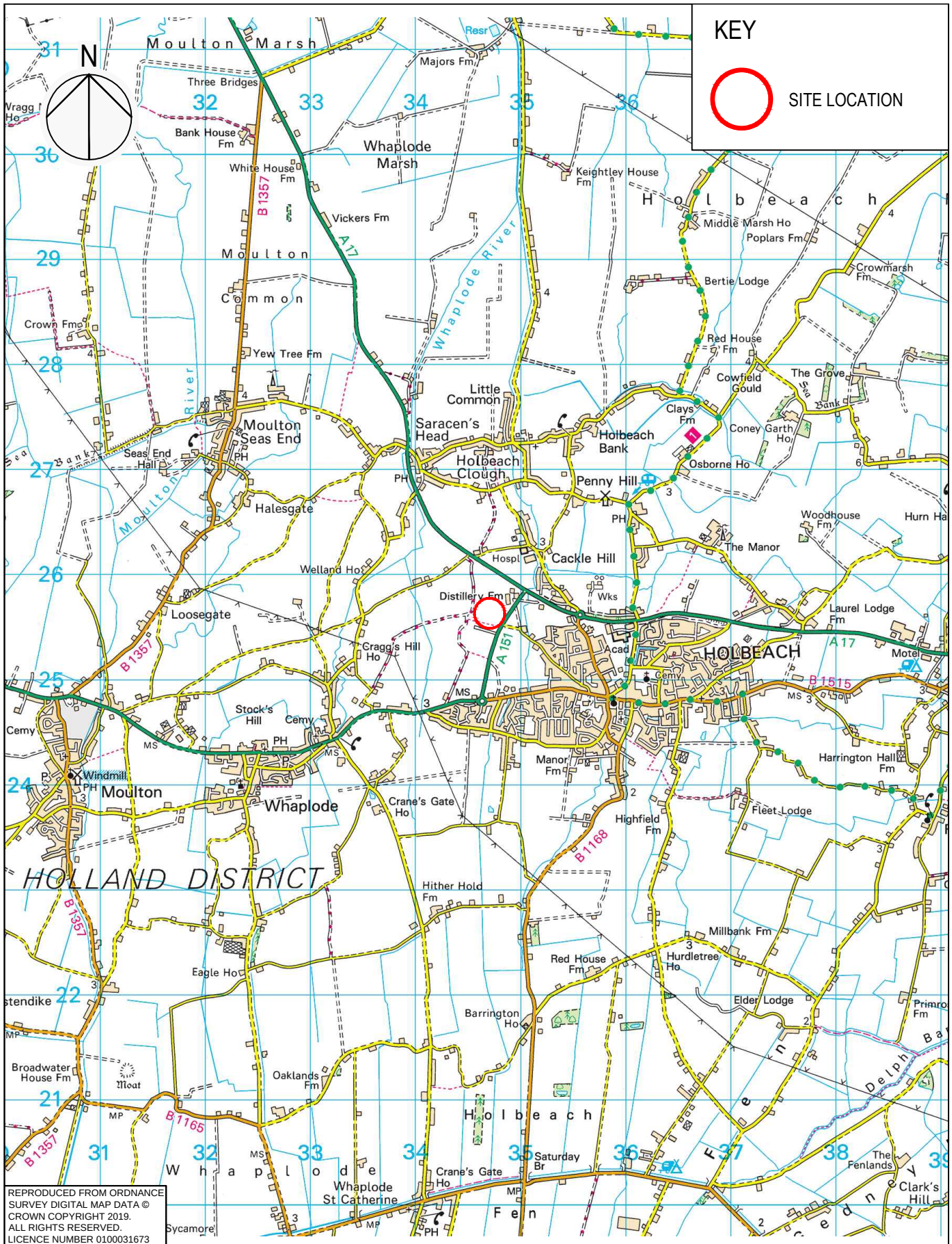
Any ground investigation would be expected to comprise cable percussion boreholes / windowless sample holes and machine-dug trial pits, and may also benefit from electrical static cone penetration testing in the tidal flat deposits. The most cost effective approach would be to combine the requirements of the geo-environmental and geotechnical assessments into a single investigation.

Following the ground investigation, an interpretive report for the area investigated, comprising human health, controlled waters and ground gas assessments should be undertaken to fully assess the levels of contamination across the site, to identify mitigation measures where required and to make recommendations to allow the redevelopment of the site. This report would also review the geotechnical conditions based on the ground investigation results and provide outline guidance on the need for ground improvement and advise on foundation options, typical allowable bearing pressures and potential settlement ranges for the ground investigation.

Drawings

Plot Date : 14 February 2019 09:09:42

File Name : L:\CH_GEOENVIRONMENT\PROJECTS\60550563 FEZ HOLBEACH\2 - PROJECT INFORMATION\2.3 - DOCUMENTS\DRAWINGS\60550563_HOLB_01



Drawing Title

FEZ HOLBEACH
SITE LOCATION

Purpose of issue

PRELIMINARY

Drawn

SDW

Checked

JH

Approved

DT

Date

01/19

Scale @ A4

1:50,000

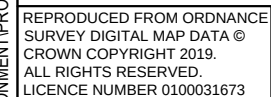
Rev

-

Drawing Number

60550563/HOLB/01

AECOM



AECOM

North

South

OFF-SITE RECEPTORS

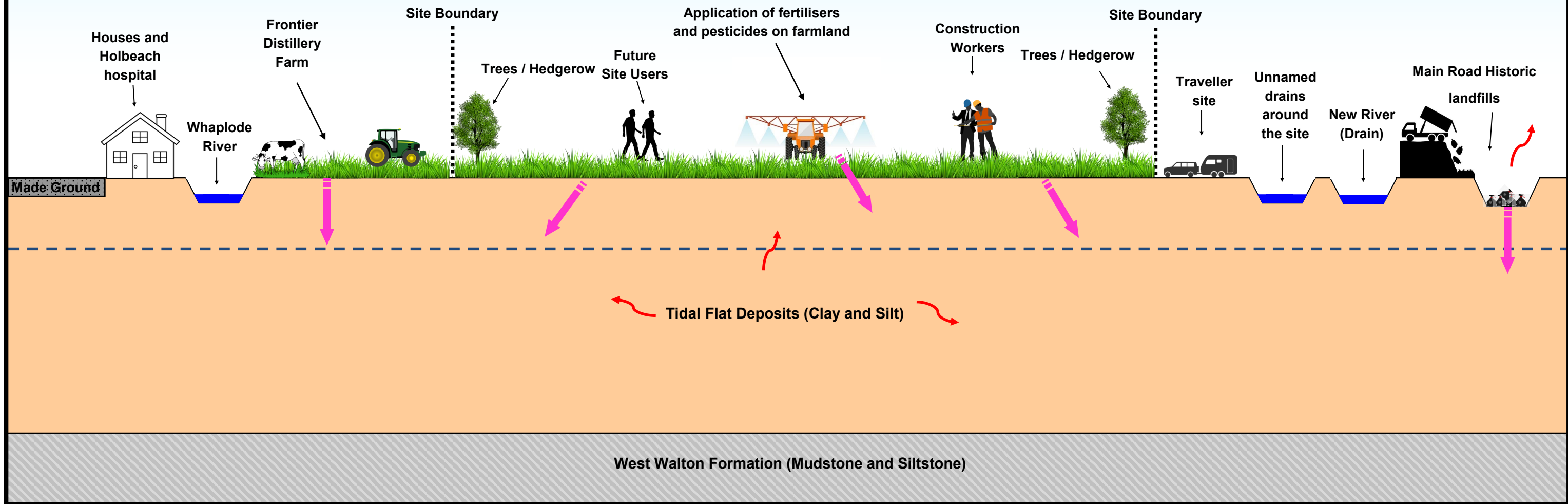
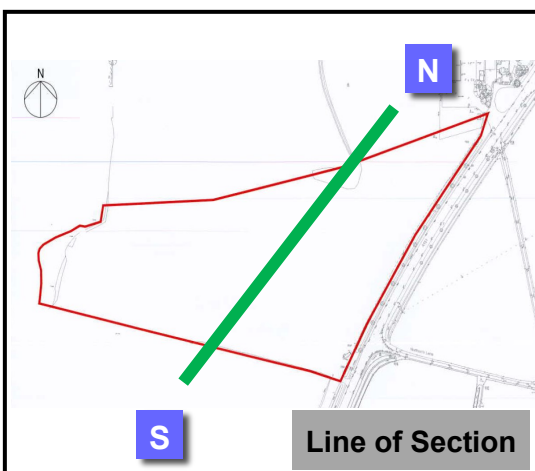
- Nearby residents and users of Holbeach hospital
- Workers on the Frontier Distillery Farm
- Whaplode River
- Construction Workers

ON SITE RECEPTORS

- Future Site Users
- Construction Workers

OFF-SITE RECEPTORS

- The Unnamed Drains around the site
- New River (Drain)
- Traveller Site



KEY



MADE GROUND



POTENTIAL LEACHATE



TIDAL FLAT DEPOSITS



INFERRED GROUND-
WATER TABLE



WEST WALTON FORMATION



POTENTIAL GAS /
VAPOUR PATHWAY

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Title.

CONCEPTUAL SITE MODEL

Project.

FEZ HOLBEACH

Client.

Lincolnshire
COUNTY COUNCIL

Scale.

Not to scale

Size A3

A3

Date.

January 2019

Project.

t. 60550563

Drawn.

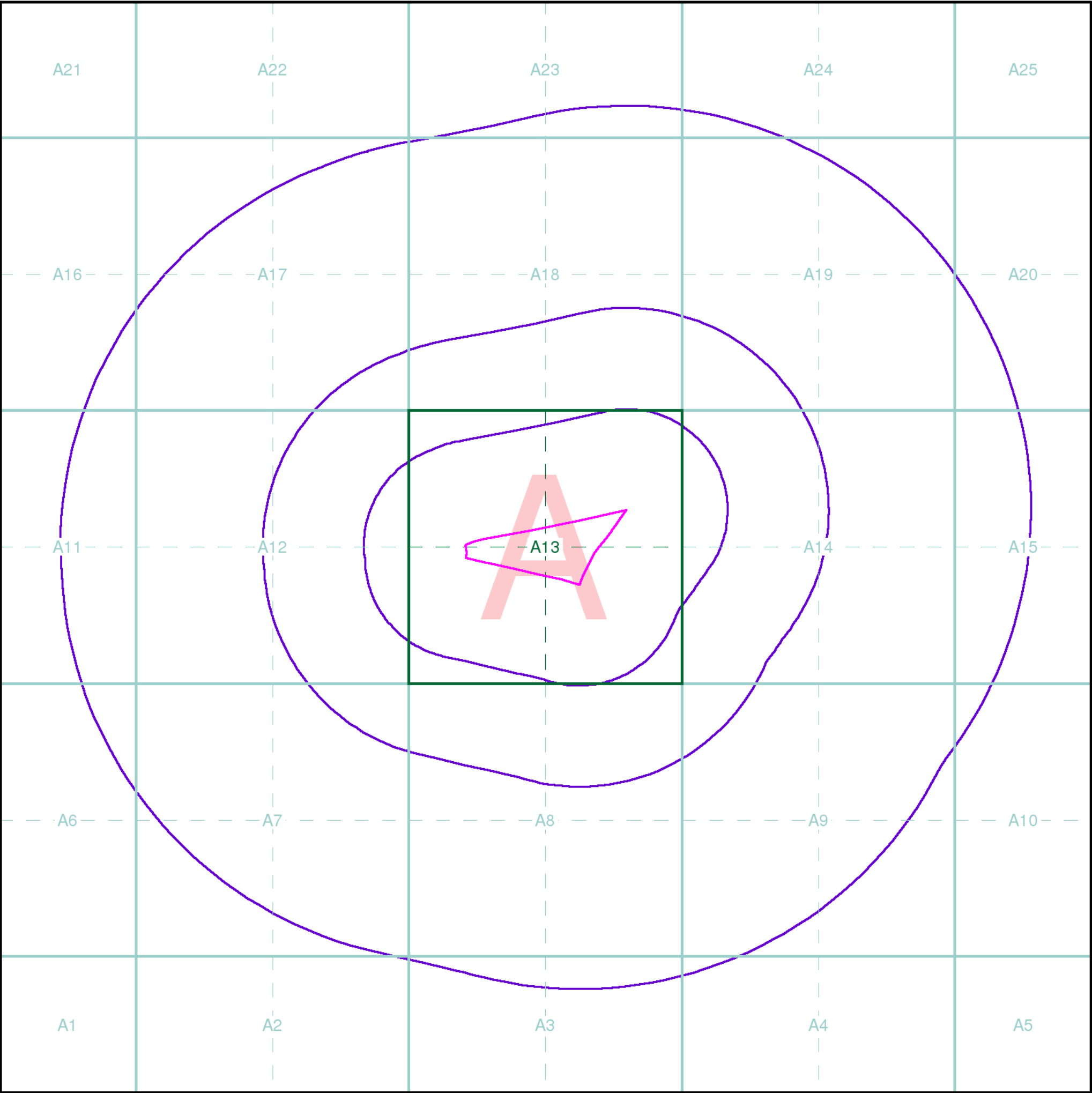
JH

Approved.

T

DRAWING: 60550563/HOLB/03

Appendix A - Envirocheck Report



Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr J Howard, Aecom Infrastructure & Environment UK Ltd,
Royal Court, Basil Close, Chesterfield, Derbyshire, S41
7SL

Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325600
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

191780895_1_1

Customer Reference:

60550563 - Holbeach

National Grid Reference:

534710, 325620

Slice:

A

Site Area (Ha):

3.49

Search Buffer (m):

1000

Site Details:

Site at

Holbeach

Lincolnshire

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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		12	2	15
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 8	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 8				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 8				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 8	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 9	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9	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 10		30	24	61

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 24				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 24			1	11
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 26		1		
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 27	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 27	Yes		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 28	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	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 29		2	1	14
Fuel Station Entries					
Points of Interest - Commercial Services	pg 30				2
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 30				4
Points of Interest - Public Infrastructure	pg 31				2
Points of Interest - Recreational and Environmental	pg 31				3
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 32	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 4 Of Traverler Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010000 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary To Holbeach River 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	A13SE (SE)	42	2	534782 325473
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 5 Of Traveler Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010001 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary To Holbeach River 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	A13SE (SE)	42	2	534782 325473
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 1 Traveler Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd009997 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Holbeach River 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	A13SE (SE)	42	2	534782 325473
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 2 Of Travelers Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd009998 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Holbeach River 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	A13SE (SE)	42	2	534782 325473

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 3 Of Travelers Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd009999 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary To Holbeach River 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	A13SE (SE)	42	2	534782 325473
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 6 Of Travelers Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010002 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Holbeach River 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	A13SE (S)	72	2	534769 325445
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 6 Proposed Gypsy And Traveller Site Off A151, Holbeach, Spalding, Lincolnshire, Pe12 7py Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010003 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary To Holbeach River 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	A13SE (S)	72	2	534769 325445
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 8 Of Traveler Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010004 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary To Holbeach River 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	A13SE (S)	72	2	534769 325445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot 9 Traveler Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010005 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Holbeach River 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	A13SE (S)	72	2	534769 325445
1	Discharge Consents Operator: South Holland District Council Property Type: Domestic Property (Single) Location: Plot10 Travelers Site Rose View Drive, Holbeach, Spalding, Lincolnshire, Pe12 7ld Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd010006 Permit Version: 1 Effective Date: 11th December 2009 Issued Date: 11th December 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Holbeach River 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	A13SE (S)	72	2	534769 325445
2	Discharge Consents Operator: Frontier Agriculture Ltd Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Distillery Farm Off A151, Holbeach, Lincolnshire, Pe12 7py Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf18051 Permit Version: 1 Effective Date: 4th January 2004 Issued Date: 29th March 2004 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Whaplode 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)	54	2	534900 325750
2	Discharge Consents Operator: Frontier Agriculture Ltd Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Distillery Farm Off A151, Holbeach, Lincolnshire, Pe12 7py Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf12520 Permit Version: 1 Effective Date: 1st December 2000 Issued Date: 20th August 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Whaplode 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)	54	2	534900 325750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Mr & Mrs Crane Property Type: Domestic Property (Single) Location: Ropers Gate Lutton, Spalding, Lincs, Pe12 9nu Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pm1f01062 Permit Version: 1 Effective Date: 29th June 1989 Issued Date: 29th June 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company 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 100m	A12SE (W)	447	2	534100 325400
4	Discharge Consents Operator: Mr A A Brooks Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Lambleys Mill Cottage Garden Northons Lane, Holbeach, Lincs, Pe12 7pz Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pm1f03154 Permit Version: 1 Effective Date: 2nd August 1990 Issued Date: 2nd 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	A9NW (SE)	489	2	535200 325250
4	Discharge Consents Operator: Miss Sylvia French Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Lambleys Mill Cottage Garden Northons Lane, Holbeach, Spalding, Lincs, Pe12 7pz Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pm1f03155 Permit Version: 1 Effective Date: 2nd August 1990 Issued Date: 2nd 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 100m	A9NW (SE)	517	2	535200 325200
4	Discharge Consents Operator: Mr S Eaton Property Type: Domestic Property (Single) Location: Eaton House Northons Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pz Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Pm1nf12884 Permit Version: 1 Effective Date: 7th October 2002 Issued Date: 30th October 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Whaplode River 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	A9NW (SE)	525	2	535230 325230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Heritage Kitchens Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: The A17 By-Pass Welbourn Lane (East), Holbeach, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02987 Permit Version: 1 Effective Date: 20th July 1990 Issued Date: 20th July 1990 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company 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	A14NE (E)	516	2	535420 325670
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 5 Effective Date: 16th March 2010 Issued Date: 16th March 2010 Revocation Date: 21st December 2012 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 6 Effective Date: 22nd December 2012 Issued Date: 16th March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 6 Effective Date: 22nd December 2012 Issued Date: 16th March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 5 Effective Date: 16th March 2010 Issued Date: 16th March 2010 Revocation Date: 21st December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 15th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 15th March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 3 Effective Date: 15th December 2006 Issued Date: 15th December 2006 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 3 Effective Date: 15th December 2006 Issued Date: 15th December 2006 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	908	2	535750 326030
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 2 Effective Date: 23rd December 2005 Issued Date: 23rd December 2005 Revocation Date: 14th December 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	929	2	535780 326010
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 2 Effective Date: 23rd December 2005 Issued Date: 23rd December 2005 Revocation Date: 14th December 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A20SW (E)	929	2	535780 326010
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 1 Effective Date: 15th July 1985 Issued Date: 15th July 1985 Revocation Date: 22nd December 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A20SW (E)	929	2	535780 326010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Holbeach Water Recycling Centre Tolls Lane, Holbeach, Spalding, Lincolnshire, Pe12 7pr Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Aw5nf378a Permit Version: 1 Effective Date: 15th July 1985 Issued Date: 15th July 1985 Revocation Date: 22nd December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holbeach River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A20SW (E)	929	2	535780 326010
	Nearest Surface Water Feature	A13SE (E)	0	-	534812 325602
	River Quality Name: Whaplode R GQA Grade: River Quality D Reach: Headwaters...Tinsleys Estimated Distance (km): 8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A11NE (W)	970	2	533587 325923
	Water Abstractions Operator: D R Bridger Esq Licence Number: 5/31/14/*g/068a Permit Version: Not Supplied Location: Well Crown Farm, Holbeach Clough, HOLBEACH Authority: Environment Agency, Anglian Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 2 Yearly Rate (m3): 6820 Details: Fluvial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1594	2	534960 327290
	Water Abstractions Operator: F Pennington & Son(Holbeach) Licence Number: 5/32/11/*s/057 Permit Version: Not Supplied Location: Ogdens Dyke, HOLBEACH Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 13 Yearly Rate (m3): 400000 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	(E)	1607	2	536500 325500
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 24 North Northamptonshire Scale: 1:100,000	A13NE (SW)	0	2	534712 325616
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (SW)	0	3	534712 325616
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (SW)	0	3	534712 325616

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/Tidal Models Boundary Accuracy: As Supplied	A13NE (SW)	0	2	534712 325616
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	11	2	534830 325560
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	25	2	534820 325510
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	26	2	534830 325535
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	61	2	534930 325755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	146	2	535050 325715
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	147	2	534525 325415
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	148	2	535050 325725
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	150	2	535055 325680
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	160	2	535060 325737
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (NE)	219	2	535087 325820
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	235	2	535140 325685
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NE (SW)	0	2	534712 325616
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	11	2	534830 325560
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	25	2	534830 325535
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	26	2	534840 325550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	61	2	534930 325755
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	146	2	535055 325680
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	147	2	534525 325415
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	192	2	534430 325405
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (NE)	219	2	535087 325820
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A14NW (E)	235	2	535140 325685
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 255.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (SE)	11	4	534826 325557
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (SE)	23	4	534793 325491
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 349.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	25	4	534804 325699
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (SE)	33	4	534842 325544
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (SE)	36	4	534829 325509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (E)	55	4	534958 325712
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (S)	67	4	534773 325449
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	95	4	534973 325764
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 337.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SW (S)	111	4	534657 325432
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (S)	114	4	534757 325404
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (S)	116	4	534754 325403
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	117	4	534999 325766
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (S)	131	4	534750 325389
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NW (NW)	133	4	534565 325763

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 555.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A14NW (E)	140	4	535046 325657
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 528.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (SE)	141	4	534932 325489
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	165	4	535015 325820
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	180	4	534957 325869
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A14NW (E)	186	4	535084 325748
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	187	4	534978 325869
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 293.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	194	4	534901 325926
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (E)	204	4	535103 325744
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (NE)	215	4	535084 325816

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: Underground Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A14NW (NE)	215	4	535084 325816
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (NE)	216	4	535086 325816
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 343.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NE (NE)	219	4	534943 325929
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 816.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13NW (NW)	228	4	534483 325847
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 1	A14NW (NE)	233	4	535082 325848
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 380.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 1	A14NW (NE)	233	4	535082 325848
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A13SE (S)	238	4	534745 325280
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	269	4	534714 325256
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (E)	303	4	535206 325732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 415.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	317	4	534557 325235
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 275.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NW (E)	338	4	535242 325726
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SW (N)	341	4	534626 325988
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SW (NW)	341	4	534551 325972
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 481.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	345	4	534788 326023
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	345	4	534788 326023
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 261.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	346	4	534745 326015
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	353	4	534696 325173
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 289.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (S)	366	4	534717 325155

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 324.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A9NW (SE)	400	4	535072 325231
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	400	4	535075 325234
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 335.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NW (SE)	401	4	535076 325233
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 1	A14SW (SE)	446	4	535197 325335
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 242.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (W)	447	4	534097 325405
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 268.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A17SE (NW)	450	4	534344 326039
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 389.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (W)	460	4	534051 325534
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 289.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (SW)	470	4	534133 325298
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (SW)	470	4	534133 325298

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 1	A9NW (SE)	477	4	535169 325226
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	485	4	534673 325043
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	485	4	534673 325043
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A14NE (E)	488	4	535393 325673
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 383.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SW (NE)	504	4	535260 326055
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	510	4	534004 325510
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 244.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	515	4	534568 325038
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	515	4	534568 325038
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holbeach River Catchment Name: Welland Primacy: 1	A19SW (NE)	519	4	535202 326122

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1779.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holbeach River Catchment Name: Welland Primacy: 1	A19SW (NE)	519	4	535201 326124
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SW)	521	4	534413 325067
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 1	A9NW (SE)	526	4	535231 325230
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (S)	527	4	534665 325001
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 553.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SW (N)	542	4	534546 326174
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 559.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SW (N)	544	4	534499 326168
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	549	4	534807 326238
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 334.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SW (NE)	554	4	535227 326148
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 338.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A18SE (N)	557	4	534772 326241

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 295.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (W)	600	4	533971 325880
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (W)	613	4	533953 325872
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SW (NE)	614	4	535190 326240
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	633	4	533889 325455
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 518.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Not Supplied Primacy: 2	A9SW (SE)	670	4	535094 324917
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (W)	697	4	533846 325831
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (SW)	700	4	534102 325010
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 395.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (SW)	704	4	534091 325014
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	707	4	533822 325415

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	717	4	533813 325408
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	723	4	534678 324800
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SE (NE)	726	4	535541 326046
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 589.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old River Catchment Name: Welland Primacy: 2	A19SE (NE)	726	4	535541 326046
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 262.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19NW (NE)	739	4	535332 326300
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	742	4	534622 324790
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	762	4	534592 324778
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (SW)	778	4	534082 324930
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (SW)	778	4	534082 324930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	779	4	533782 325301
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	783	4	533781 325293
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (W)	784	4	533740 325773
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	785	4	533780 325290
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1270.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whaplode River Catchment Name: Nene Primacy: 1	A17SE (NW)	788	4	534051 326253
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (W)	789	4	533778 325282
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	792	4	534580 324750
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19SE (NE)	794	4	535561 326145
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	810	4	534389 324777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	812	4	534573 324731
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (W)	813	4	533704 325743
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A9NE (SE)	822	4	535521 325140
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	825	4	533971 324954
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	830	4	533760 325222
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whaplode River Catchment Name: Nene Primacy: 1	A17SW (NW)	831	4	533887 326163
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	838	4	533756 325212
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (W)	857	4	533657 325719
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 203.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (SW)	898	4	533956 324873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 356.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (SW)	898	4	533954 324874
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 321.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whaplode River Catchment Name: Nene Primacy: 1	A17SW (NW)	901	4	533738 326080
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A17SW (NW)	901	4	533738 326080
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 527.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A19NE (NE)	911	4	535593 326294
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	913	4	535141 324672
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (SW)	962	4	533686 325083
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (W)	993	4	533514 325624
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (W)	996	4	533511 325622
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 348.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Nene Primacy: 2	A3NE (S)	998	4	534724 324518

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SE (NW)	998	4	533684 326176
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (W)	998	4	533508 325618

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Historical Landfill Sites Licence Holder: Not Supplied Location: Whaplode, Lincolnshire Name: Main Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00254 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: SH-49-01/89, RD7-49-01/89, 2500/5063	A7NE (SW)	662	2	534355 324936
123	Historical Landfill Sites Licence Holder: Not Supplied Location: Whaplode, Lincolnshire Name: Main Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00255 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: RD7-50-01/89, SH-50-01/89, 2500/5051	A8SW (S)	802	2	534374 324788
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	6	534712 325616
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	5	534712 325616
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (SW)	333	-	534420 325259
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SW (SE)	516	-	535298 325360
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A8NE (S)	556	-	534863 324963
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	582	-	535457 325511
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A8SE (S)	644	-	534840 324872
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	654	-	535483 325392
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	667	-	535503 325402
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18NE (N)	677	-	534980 326370
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9NE (SE)	814	-	535510 325137
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A7SE (SW)	852	-	534246 324770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A9SE (SE)	914	-	535405 324838
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A23SE (N)	936	-	534930 326633

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	Control of Major Accident Hazards Sites (COMAH) Name: Frontier Agriculture Limited Location: Welbourne Lane, Holbeach Distillery Farm, Welbourne Lane West, Holbeach, Lincolnshire, Pe12 7py Reference: Not Supplied Type: Lower Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	94	7	534905 325791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: West Walton Formation, Ampthill Clay Formation And Kimmeridge Clay Formation (Undifferentiated)	A13NE (SW)	0	1	534712 325616
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (SW)	0	1	534712 325616
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	303	1	534712 326000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	507	1	534000 325616
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 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	A8NE (S)	514	1	534712 325000
	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	A7NW (SW)	772	1	534000 325000
	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				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	534712 325616
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	95	1	535000 325616
	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	A13NE (SW)	0	1	534712 325616
	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	A13NE (SW)	0	1	534712 325616

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Contemporary Trade Directory Entries Name: Sam Ltd Location: Welbourne Lane West, Holbeach, Spalding, Lincolnshire, PE12 7PY Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	94	-	534905 325791
137	Contemporary Trade Directory Entries Name: Frontier Location: Welbourne Lane West, Holbeach, SPALDING, Lincolnshire, PE12 7PY Classification: Chemicals - Distributors & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	94	-	534905 325791
138	Contemporary Trade Directory Entries Name: Vitro Botanics Location: The Old Cottage, Northons Lane, Spalding, PE12 7PZ Classification: Horticultural Equipment Maintenance & Repair Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	410	-	535165 325351
139	Contemporary Trade Directory Entries Name: Homeclean Location: Lambleys Mill Cottage, Northons Lane, Holbeach, SPALDING, Lincolnshire, PE12 7PZ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	534	-	535253 325250
140	Contemporary Trade Directory Entries Name: Alpha Materials Handling Location: Stockwell Gate, Holbeach, Spalding, Lincolnshire, PE12 8AU Classification: Fork Lift Trucks Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	550	-	534064 325936
141	Contemporary Trade Directory Entries Name: Brown Butlin Location: Northons Lane, Holbeach, Spalding, Lincolnshire, PE12 7QA Classification: Agricultural Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	665	-	535399 325245
142	Contemporary Trade Directory Entries Name: Lincs Water Services Ltd Location: 29, Northons Lane, Holbeach, Spalding, Lincolnshire, PE12 7PZ Classification: Engineering Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	742	-	535398 325091
143	Contemporary Trade Directory Entries Name: M Searby Location: 68, Chestnut Avenue, Holbeach, Spalding, Lincolnshire, PE12 7NF Classification: Agricultural Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	759	-	535466 325170
144	Contemporary Trade Directory Entries Name: P D Todd Location: 204, Boston Road North, Holbeach, Spalding, Lincolnshire, PE12 8AG Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	837	-	535027 326524
145	Contemporary Trade Directory Entries Name: V S Multi Services Location: Wignals Gate, Holbeach, Spalding, Lincolnshire, PE12 7HL Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	838	-	534771 324676
146	Contemporary Trade Directory Entries Name: J Coward Location: 119, Spalding Road, Holbeach, Spalding, Lincolnshire, PE12 7HP Classification: Agricultural Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	844	-	534334 324755

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Contemporary Trade Directory Entries Name: Z Stec Location: 1, Meridian Walk, Holbeach, Spalding, Lincolnshire, PE12 7NR Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (S)	959	-	534915 324564
148	Contemporary Trade Directory Entries Name: Map Technologies Location: Park Road, Holbeach, Spalding, Lincolnshire, PE12 7PT Classification: Food Colouring, Flavours & Additive Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A15SW (E)	960	-	535840 325478
148	Contemporary Trade Directory Entries Name: Diana Food Location: Park Road, Holbeach, Spalding, PE12 7PT Classification: Food Colouring, Flavours & Additive Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A15SW (E)	963	-	535844 325487
149	Contemporary Trade Directory Entries Name: Eafon Motors Location: 55, Langwith Drive, Holbeach, Spalding, Lincolnshire, PE12 7HQ Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	968	-	535328 324711
150	Contemporary Trade Directory Entries Name: Chandlers Farm Equipment Location: Boston Road South, Holbeach, Spalding, Lincolnshire, PE12 7NJ Classification: Agricultural Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	972	-	535695 325131
151	Contemporary Trade Directory Entries Name: Whaplode Electrical Services Ltd Location: 30, Langwith Drive, Holbeach, Spalding, Lincolnshire, PE12 7HQ Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	990	-	535296 324664
152	Points of Interest - Commercial Services Name: The Thermal Ribbon Label Co Ltd Location: 216 Boston Road North, Holbeach, Spalding, PE12 8AG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NE (N)	912	8	534984 326606
152	Points of Interest - Commercial Services Name: Thermal Ribbon Label Co Location: 216 Boston Road North, Holbeach, Spalding, PE12 8AG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NE (N)	912	8	534984 326606
153	Points of Interest - Manufacturing and Production Name: R S Biggadike Location: 145 Boston Road North, Holbeach, Spalding, PE12 8AG Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A19SW (NE)	539	8	535105 326198
154	Points of Interest - Manufacturing and Production Name: F C Ward & Son Location: 112 Spalding Road, Holbeach, Spalding, PE12 7HJ Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A8SE (S)	630	8	534942 324903
155	Points of Interest - Manufacturing and Production Name: Tanks Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	645	8	535360 325215
156	Points of Interest - Manufacturing and Production Name: Works Location: PE12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	859	8	535706 326007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	Points of Interest - Public Infrastructure Name: Sewage Works Location: PE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A15NW (E)	875	8	535746 325938
157	Points of Interest - Public Infrastructure Name: Sewage Works Location: PE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A15NW (E)	876	8	535747 325937
158	Points of Interest - Recreational and Environmental Name: Play Area Location: Maple Grove, PE12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SW (S)	858	8	534407 324723
158	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	863	8	534423 324714
159	Points of Interest - Recreational and Environmental Name: Playground Location: Greenwich Avenue, PE12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SW (S)	880	8	534589 324657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	Nitrate Vulnerable Zones Name: Whaplode River Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (SW)	0	3	534712 325616

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Holland District Council - Environmental Services	October 2013	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	October 2018	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	October 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control South Holland District Council - Environmental Services	October 2014	Variable
Local Authority Pollution Prevention and Controls South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Holland District Council - Environmental Services	October 2014	Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Anglian Region	January 2015	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	October 2018	Quarterly
Water Abstractions Environment Agency - Anglian Region	October 2018	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2018	Quarterly
Flood Defences Environment Agency - Head Office	August 2018	Quarterly
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	October 2018	Quarterly
Local Authority Landfill Coverage Lincolnshire County Council South Holland District Council - Environmental Services	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lincolnshire County Council South Holland District Council - Environmental Services	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements South Holland District Council Lincolnshire County Council - Highways and Planning Department	January 2016 June 2010	Variable Variable
Planning Hazardous Substance Consents Lincolnshire County Council - Highways and Planning Department South Holland District Council	August 2007 January 2016	Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

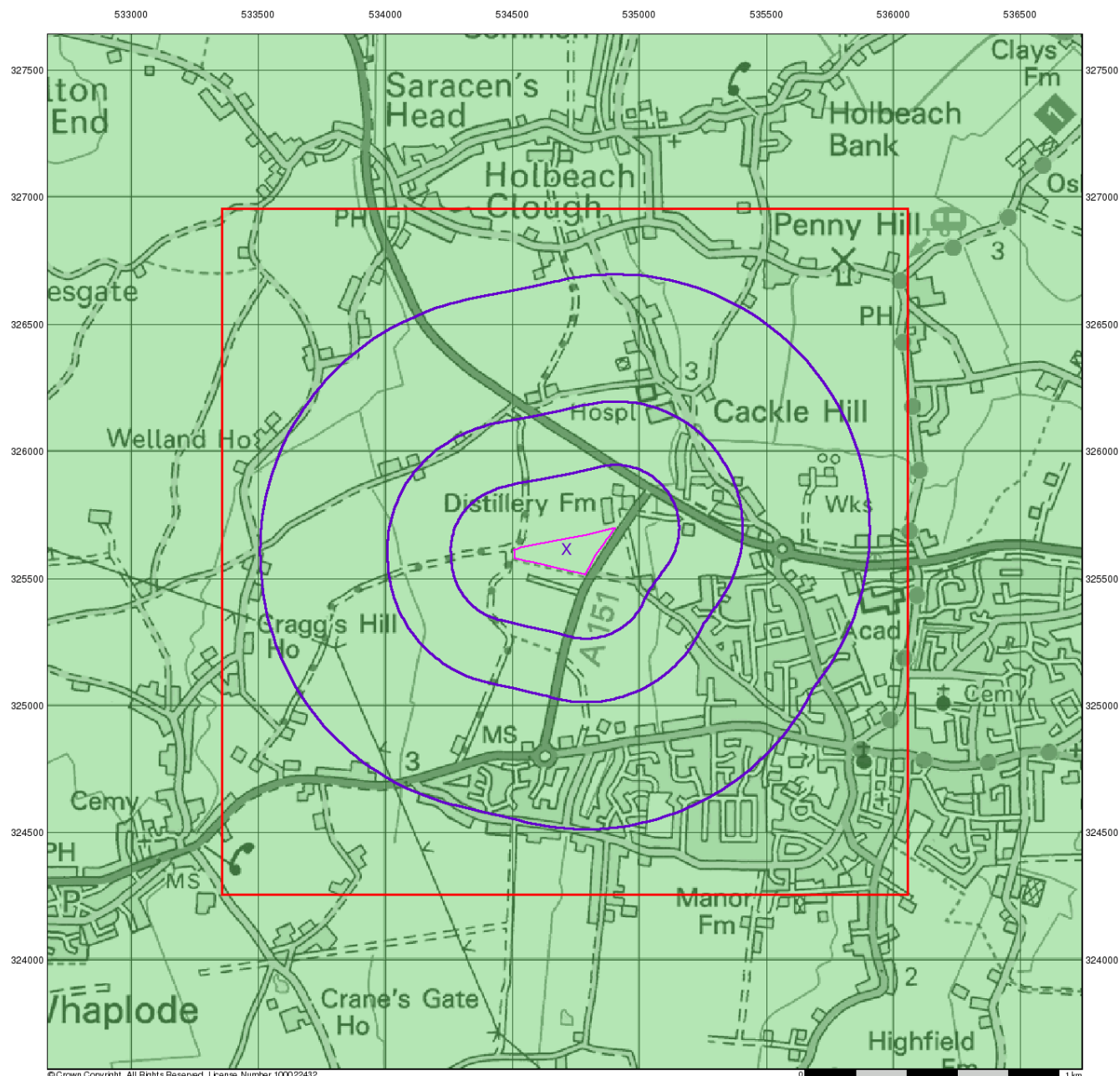
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2018	Quarterly
Points of Interest - Education and Health PointX	September 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2018	Quarterly
Points of Interest - Public Infrastructure PointX	September 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	August 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	August 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2018	Bi-Annually
Special Areas of Conservation Natural England	August 2018	Bi-Annually
Special Protection Areas Natural England	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	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
6	South Holland District Council - Environmental Services Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Website: www.sholland.gov.uk
7	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	PointX 7 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.



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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

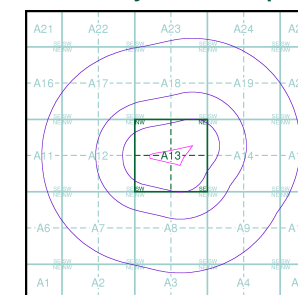
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

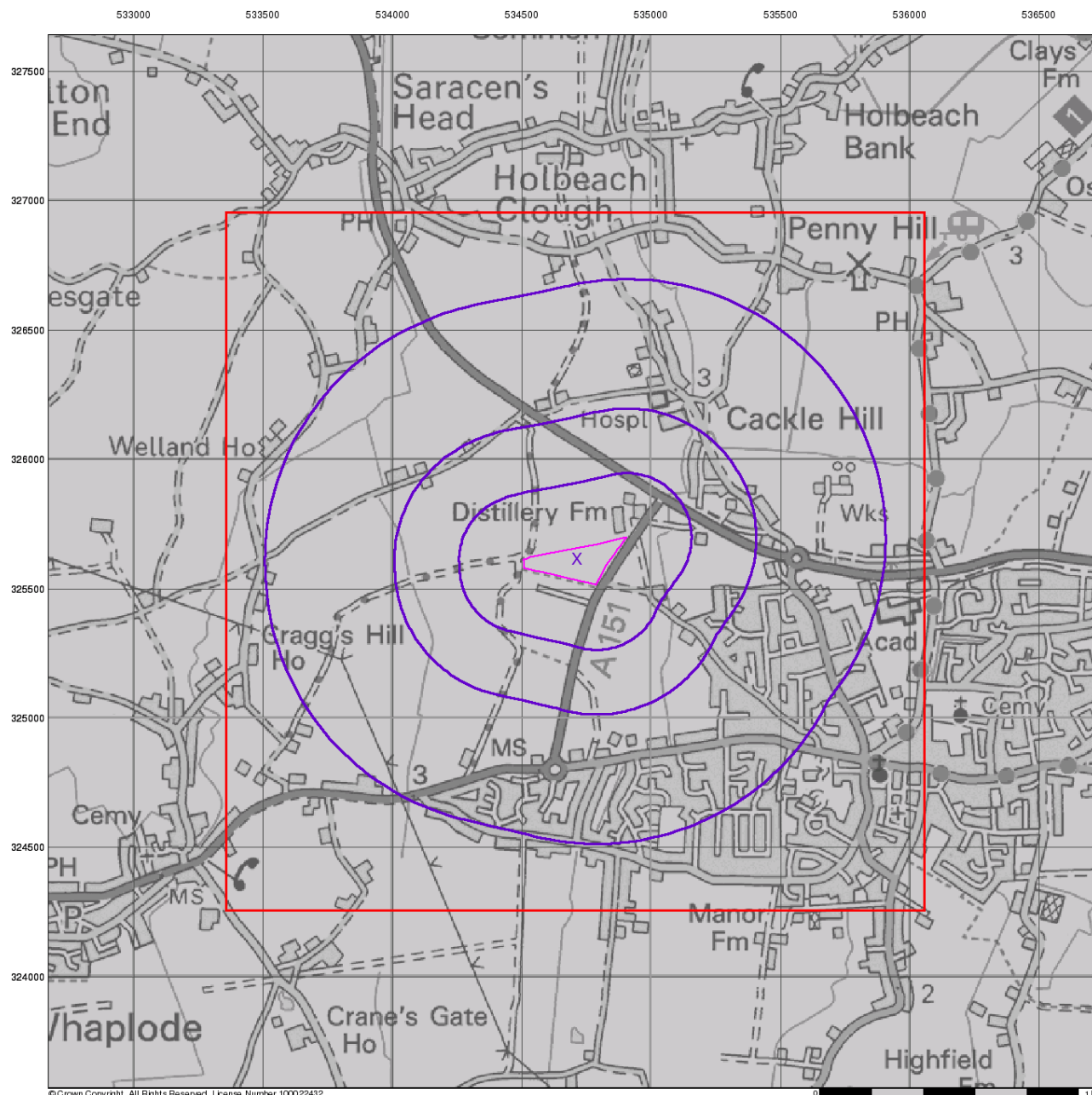
Order Number: 191780895_1_1
 Customer Ref: 60550563 - Holbeach
 National Grid Reference: 534710, 325620
 Slice: A
 Site Area (Ha): 3.49
 Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire

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0 1 km

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Bedrock Aquifer Designation

General

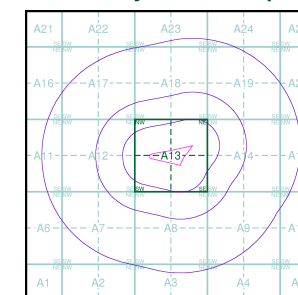
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

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

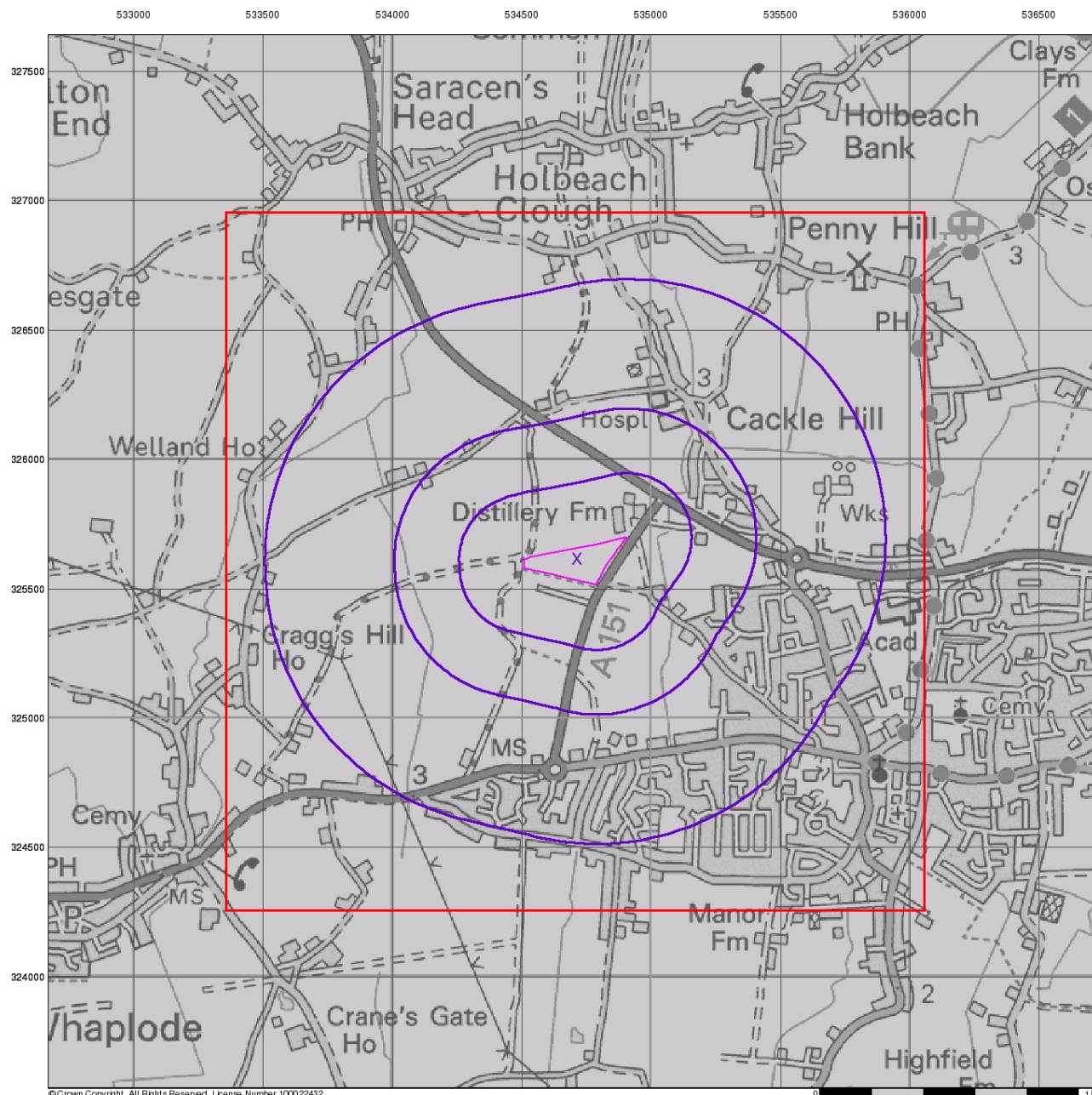
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 Slice: A
 Site Area (Ha): 3.49
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

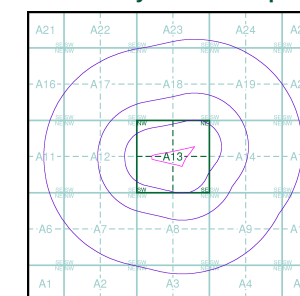
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

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

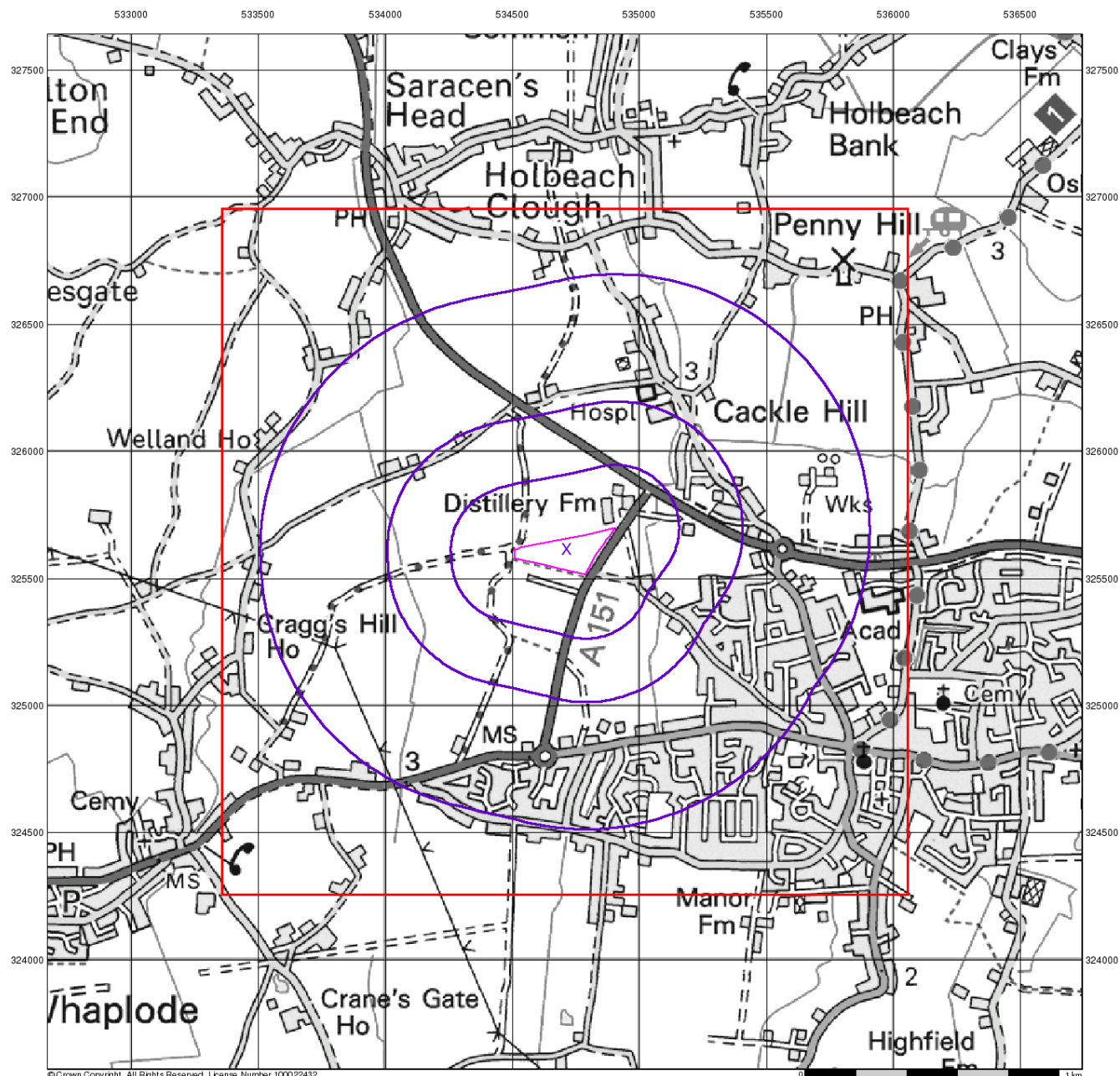
Order Number: 191780895_1_1
 Customer Ref: 60550563 - Holbeach
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 Slice: A
 Site Area (Ha): 3.49
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Source Protection Zones

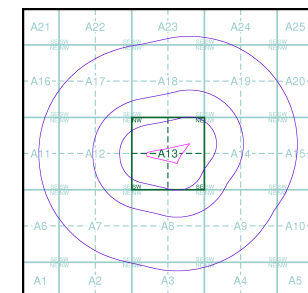
General

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

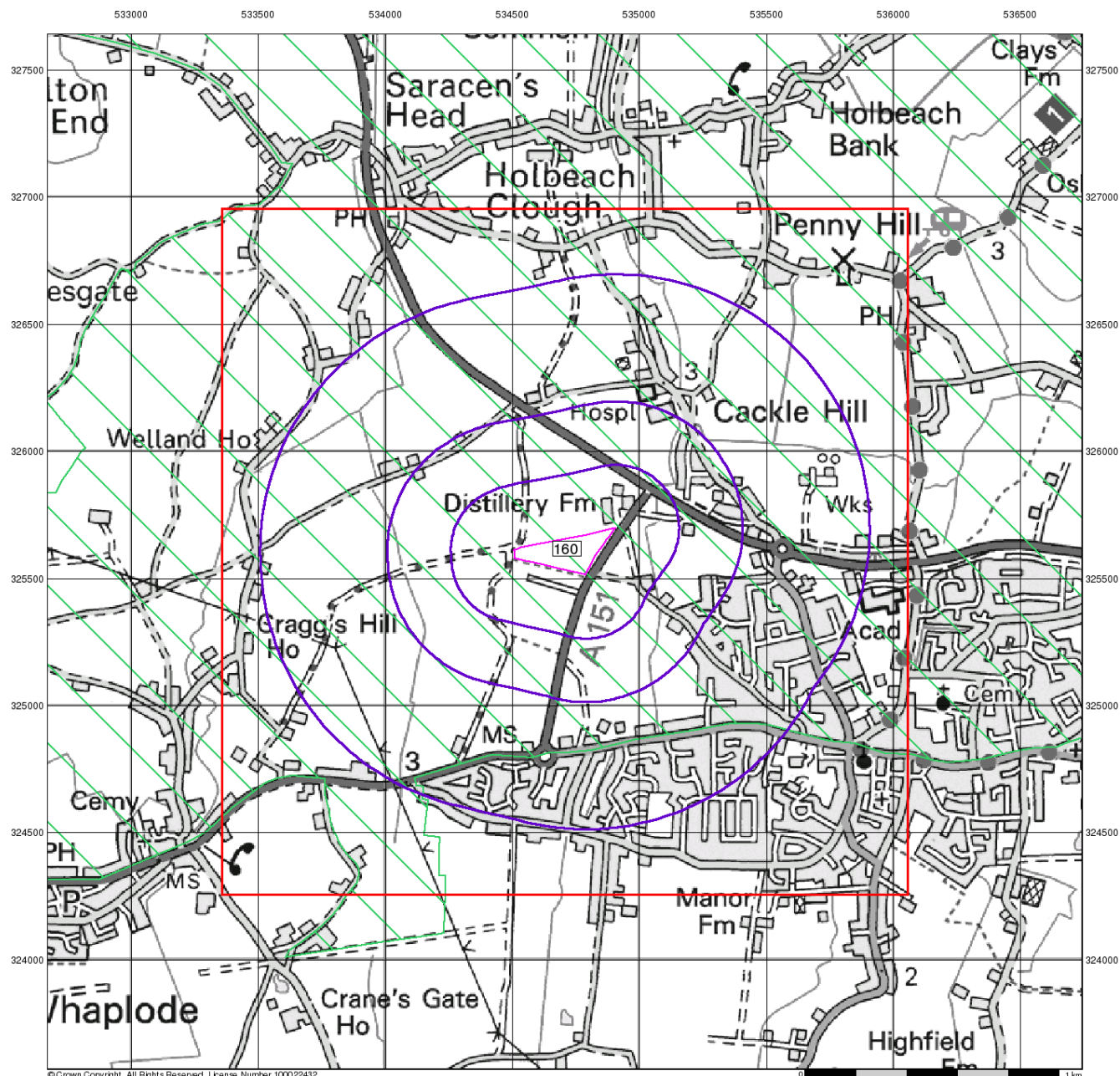
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Sensitive Land Uses

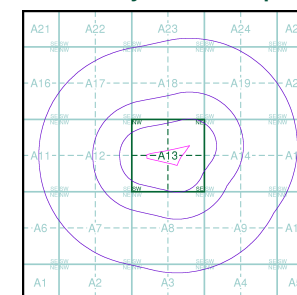
General

- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 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
- N 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

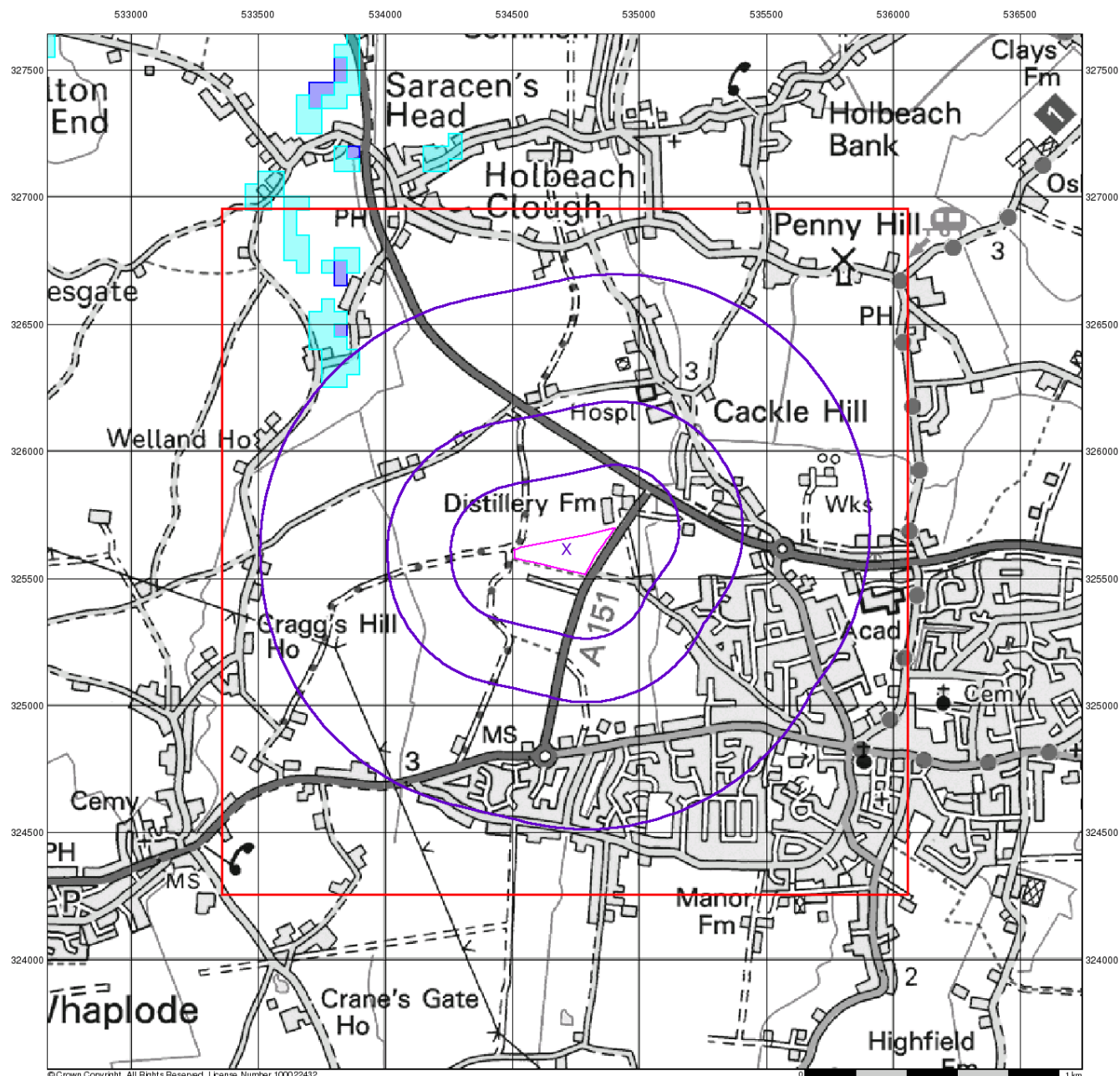
Order Number: 191780895_1_1
 Customer Ref: 60550563 - Holbeach
 National Grid Reference: 534710, 325620
 Slice: A
 Site Area (Ha): 3.49
 Search Buffer (m): 1000

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BGS Flood GFS Data

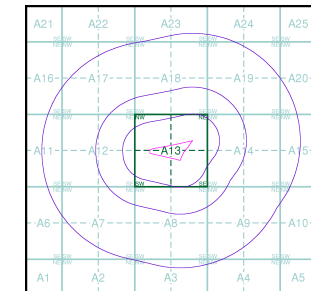
General

- ◇ 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

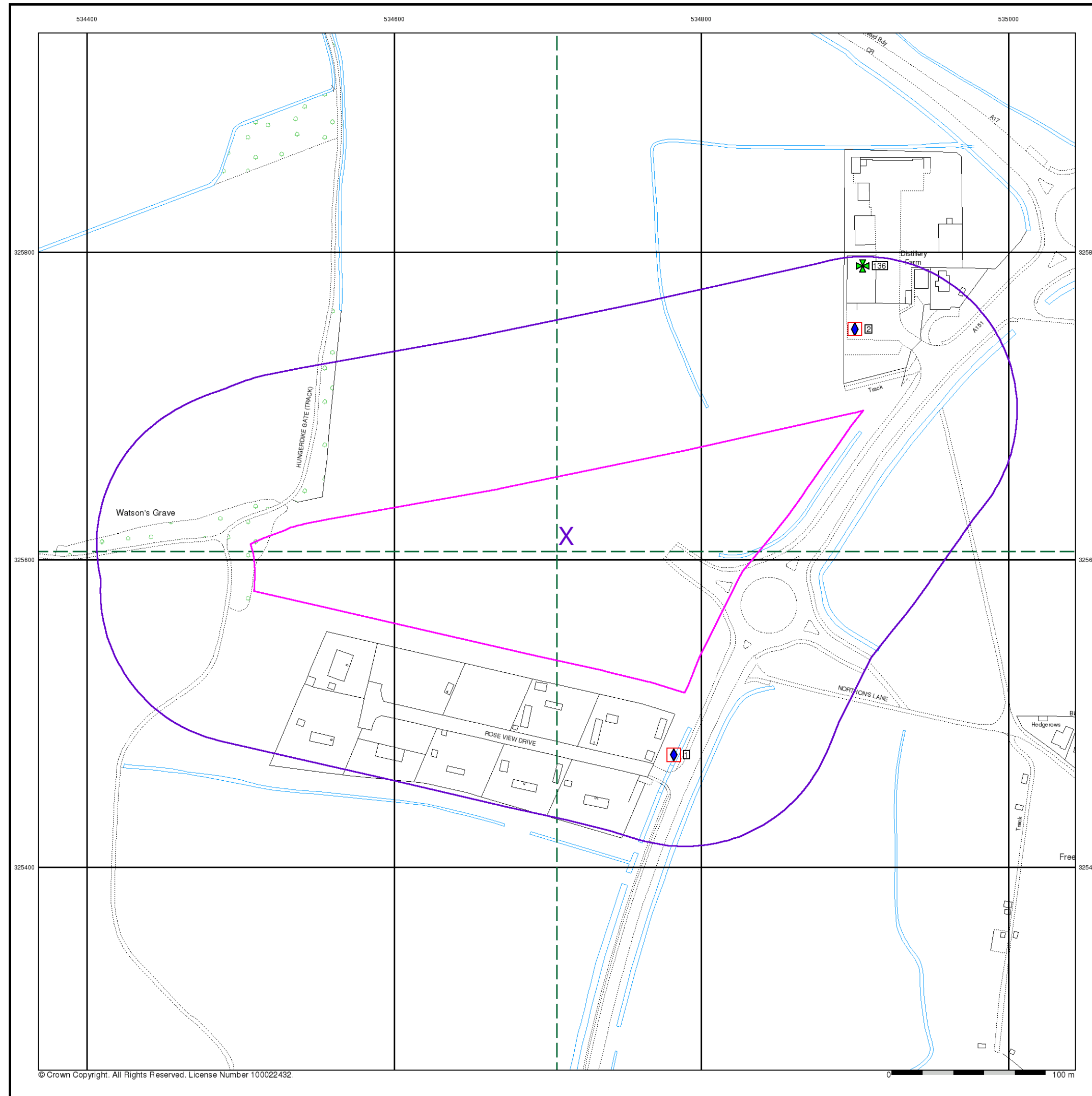
Order Number: 191780895_1_1
 Customer Ref: 60550563 - Holbeach
 National Grid Reference: 534710, 325620
 Slice: A
 Site Area (Ha): 3.49
 Search Buffer (m): 1000

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- General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Map ID

Several of Type at Location

Pylon

Overhead Transmission Line

Agency and Hydrological

Waste

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

Geological

COMAH Site

Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement

BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

Order Details

Order Number:

191780895_1_1

Customer Ref:

60550563 - Holbeach

National Grid Reference:

534710, 325620

Slice:

A

Site Area (Ha):

3.49

Plot Buffer (m):

100

Site Details

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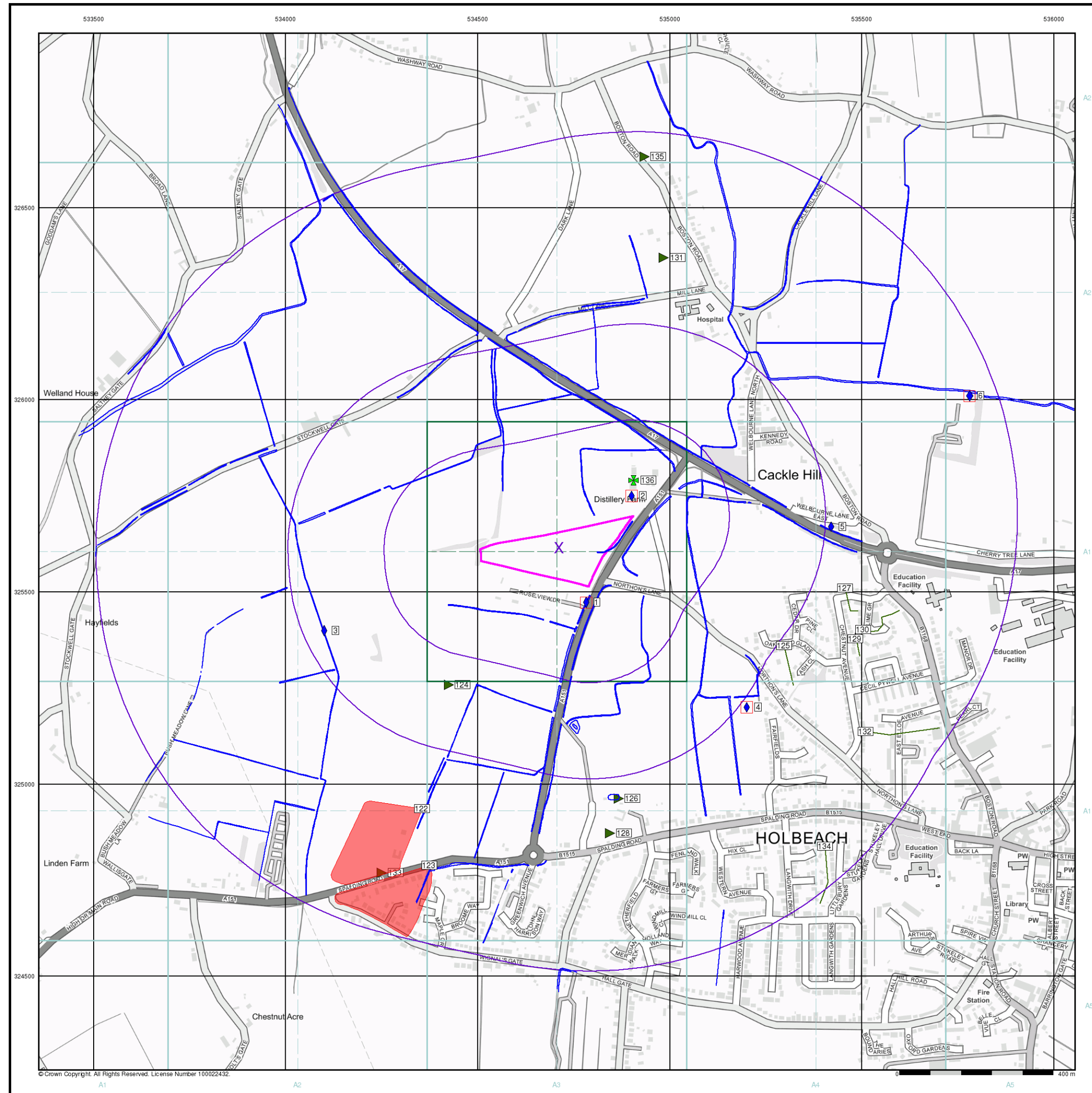
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0844 844 9951

Web:

www.envirocheck.co.uk

A Landmark Information Group Service v50.0 22-Jan-2019 Page 1 of 1



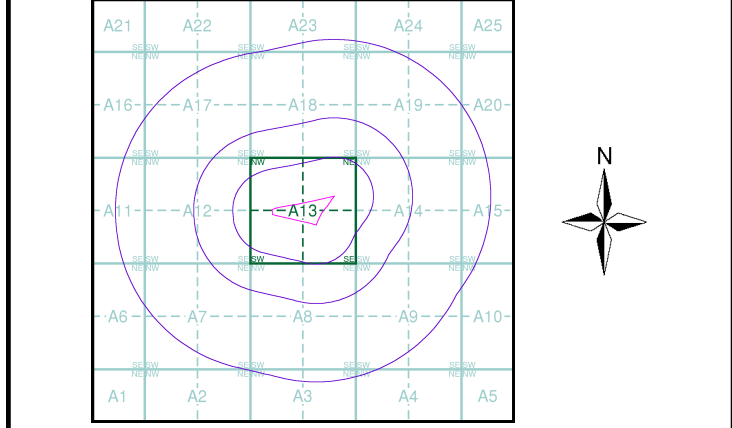
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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - 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
- 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

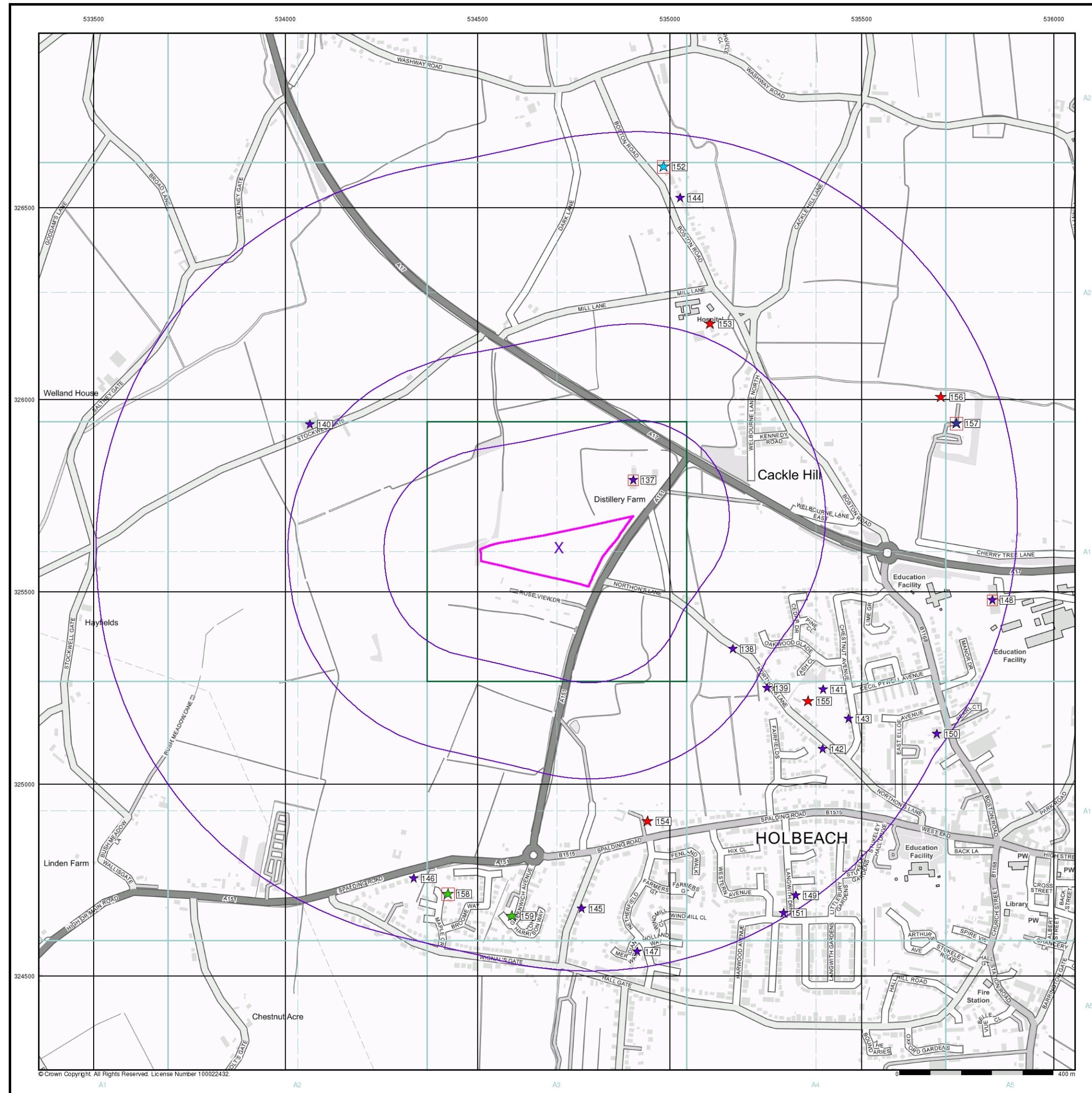
Site Sensitivity Map - Slice A



Order Details
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details
Site at, Holbeach, Lincolnshire

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Industrial Land Use Map

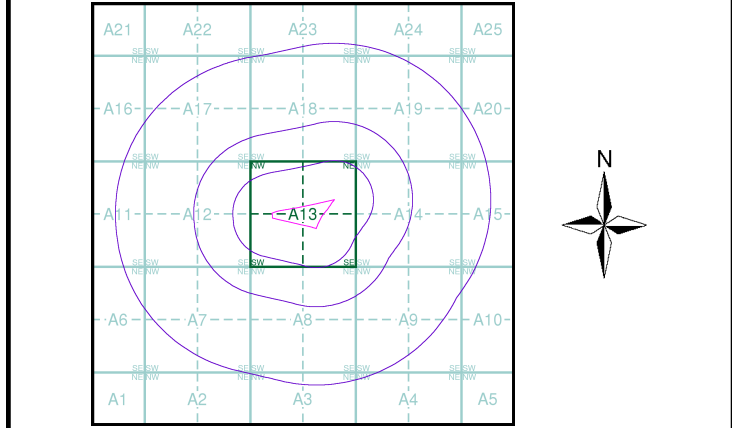
General

- 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

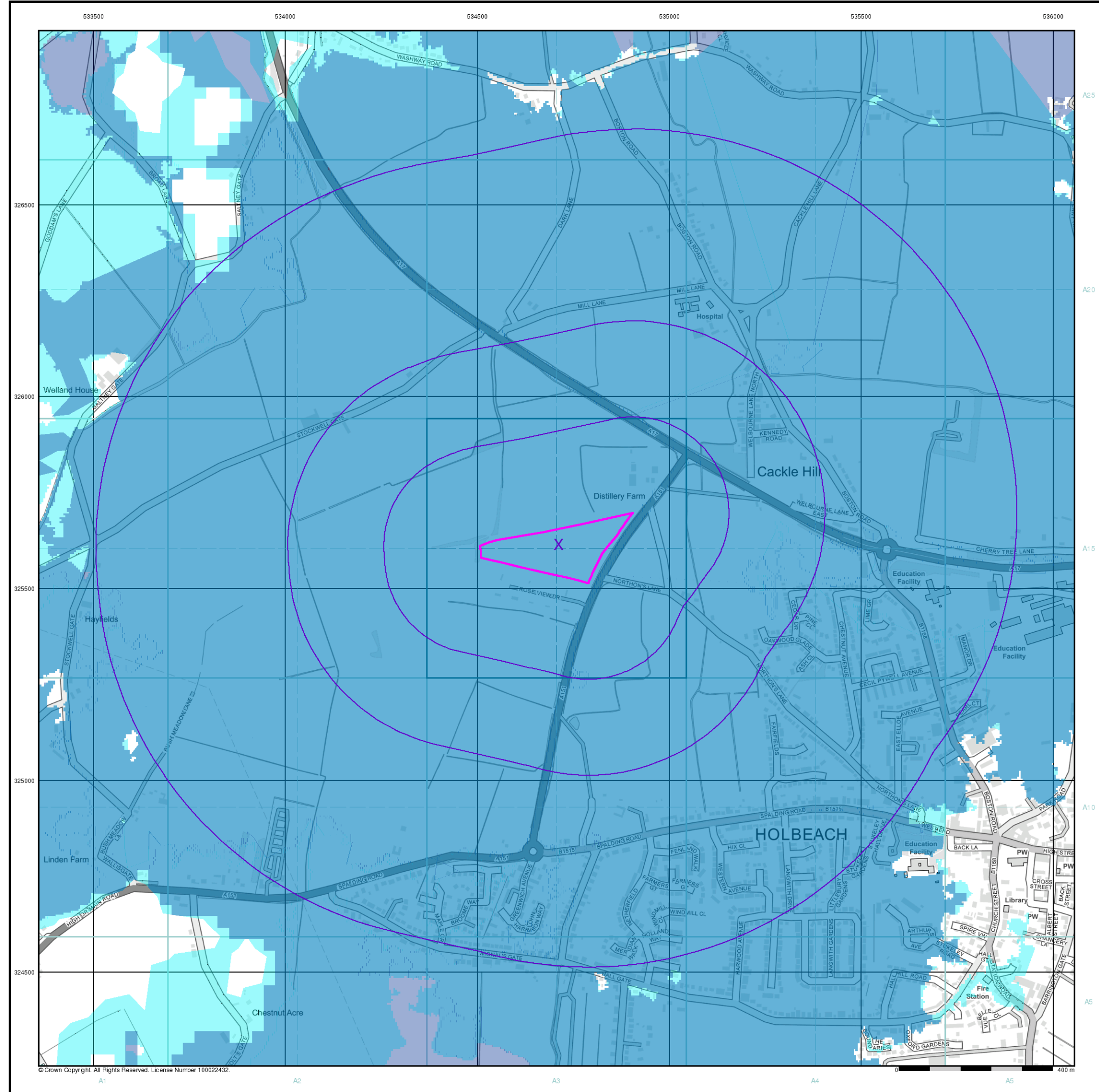
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Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

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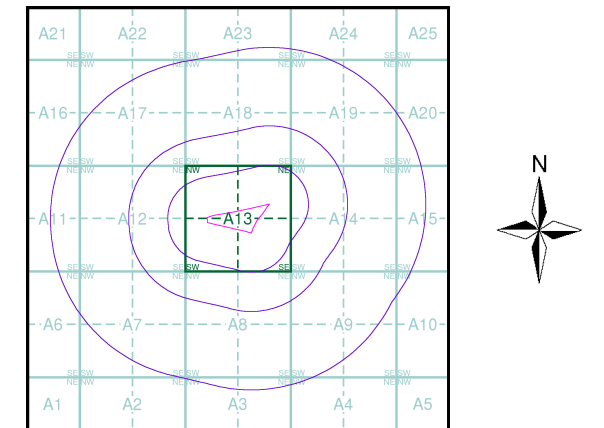
General

- 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

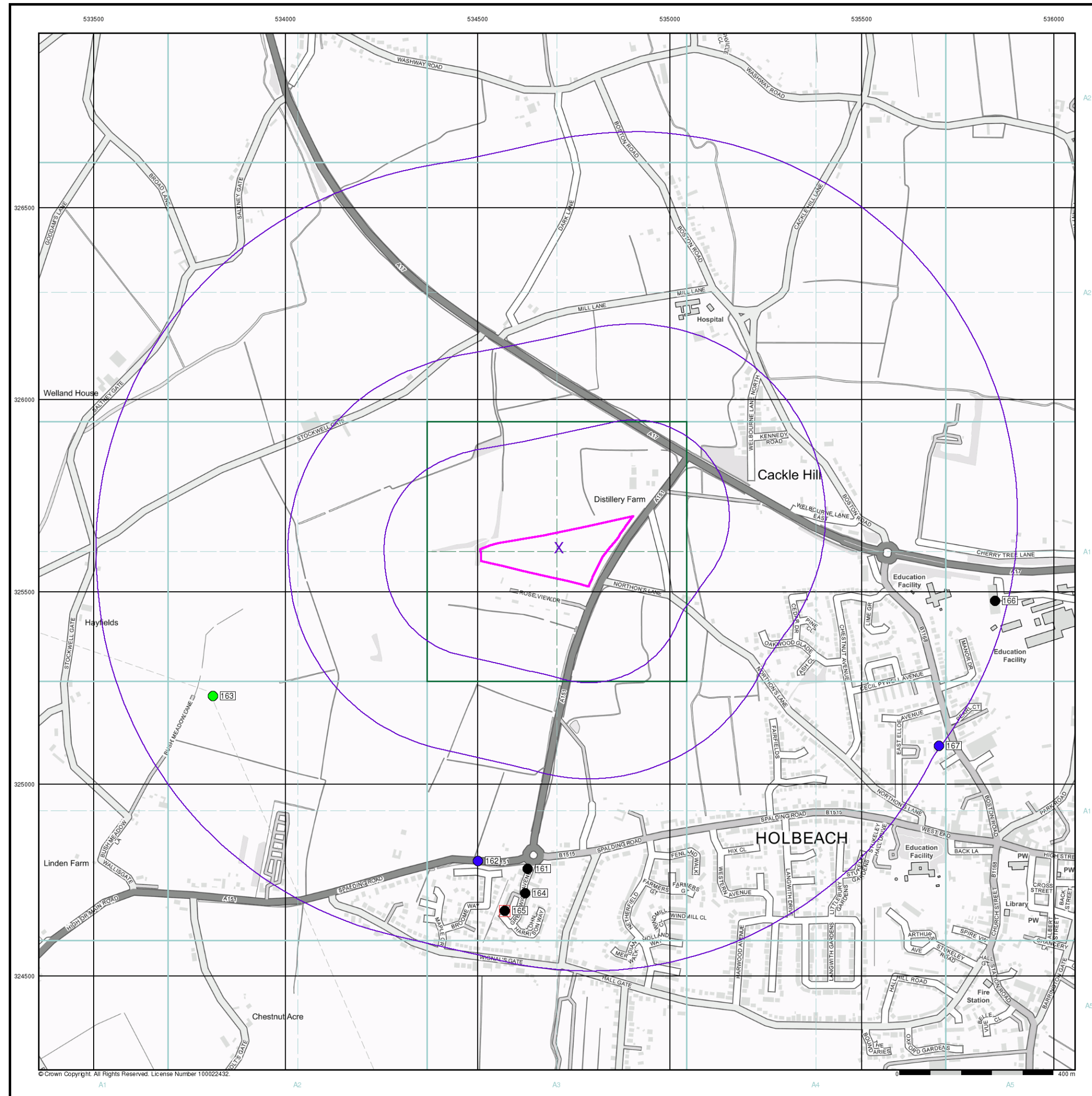


Order Details

Order Number: 191780895_1_1
 Customer Ref: 60550563 - Holbeach
 National Grid Reference: 534710, 325620
 Slice: A
 Site Area (Ha): 3.49
 Search Buffer (m): 1000

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General

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

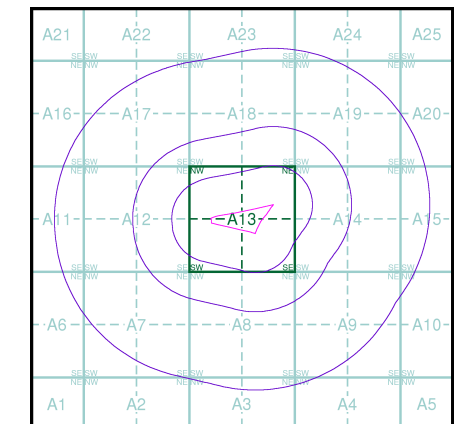
Agency and Hydrological (Boreholes)

- 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

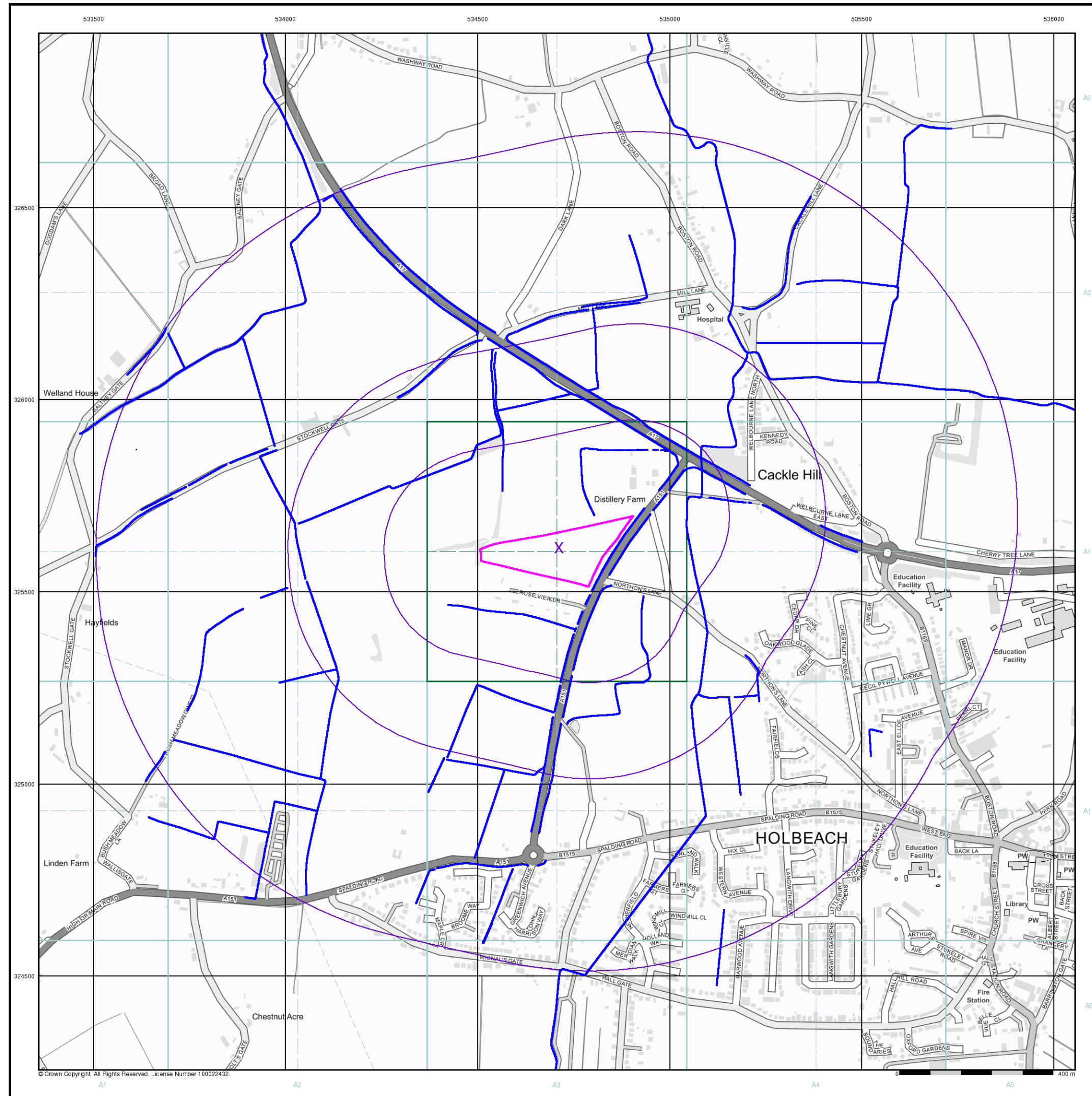


Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire



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General

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

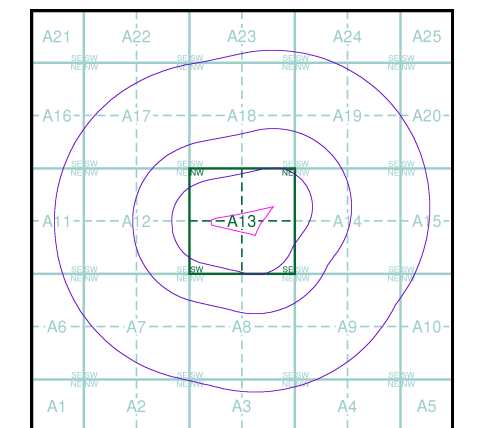
OS Water Network Data

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

Contours (height in meters)

- Standard Contour: 105, 100, 95
- Master Contour: 167.3
- Spot Height: 167.3
- MLW: Mean Low Water
- MHW: Mean High Water

OS Water Network Map - Slice A



Order Details

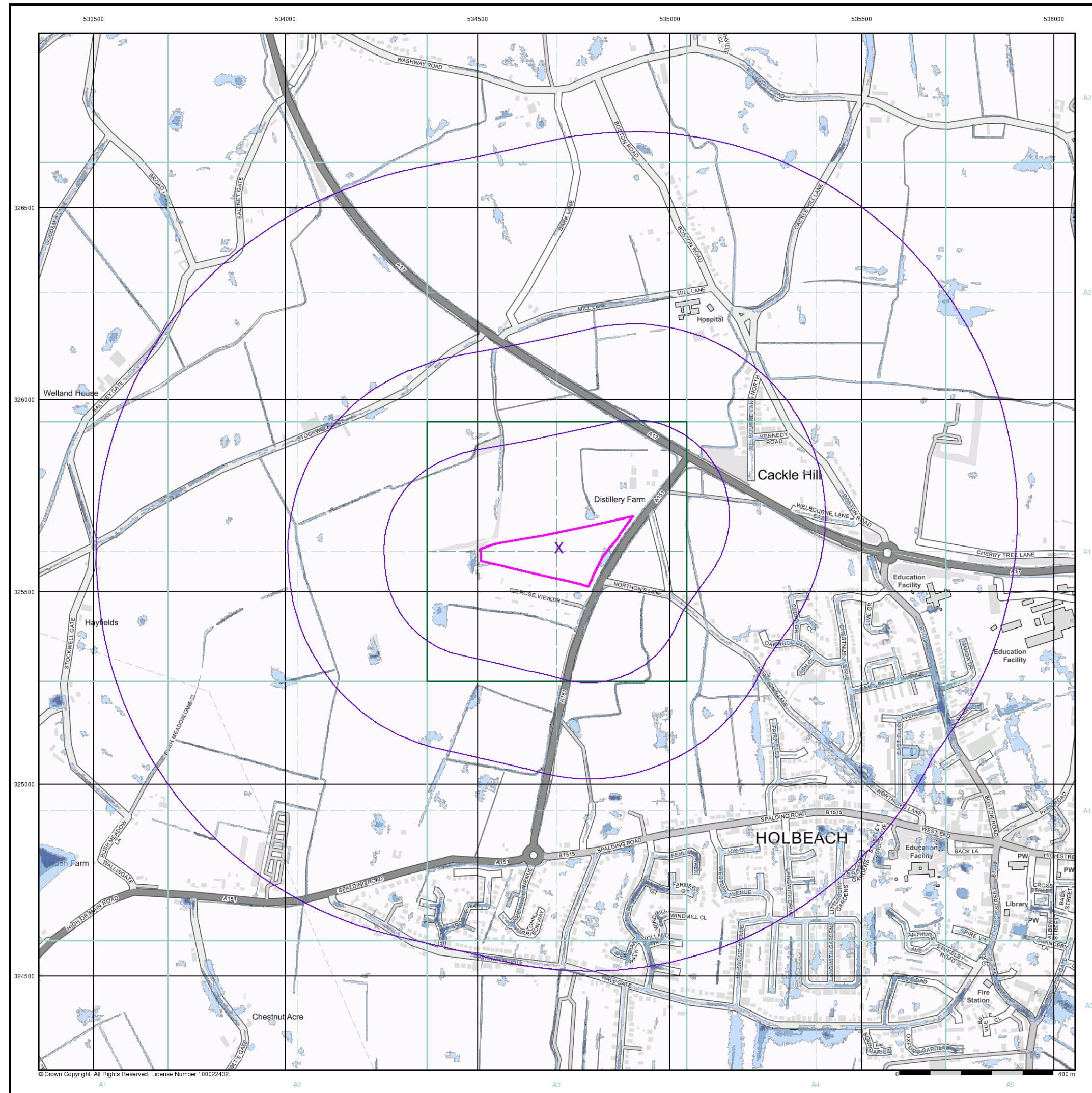
Order Number: 191780895_1_1
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Slice: A
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Site Details

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General

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

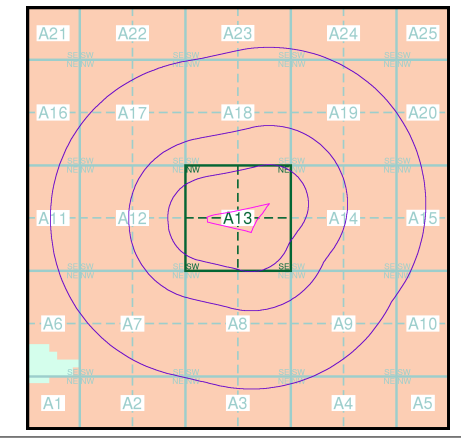
Risk of Flooding from Surface Water

- 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

EANRW Suitability Map - Slice A

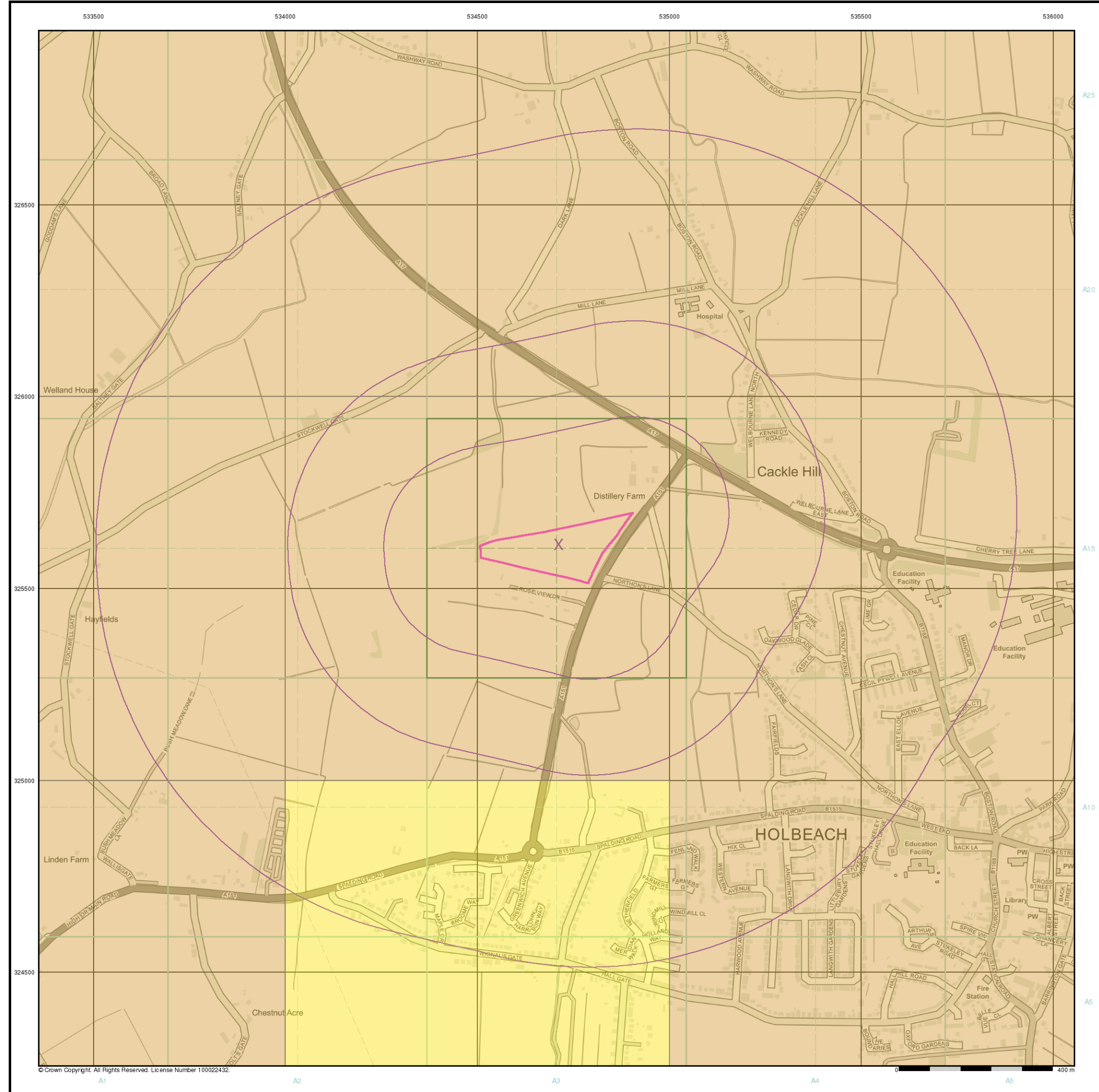


Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire



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General

Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A

Order Details

Order Details:	191780895_1_1
Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	1000

Site Details

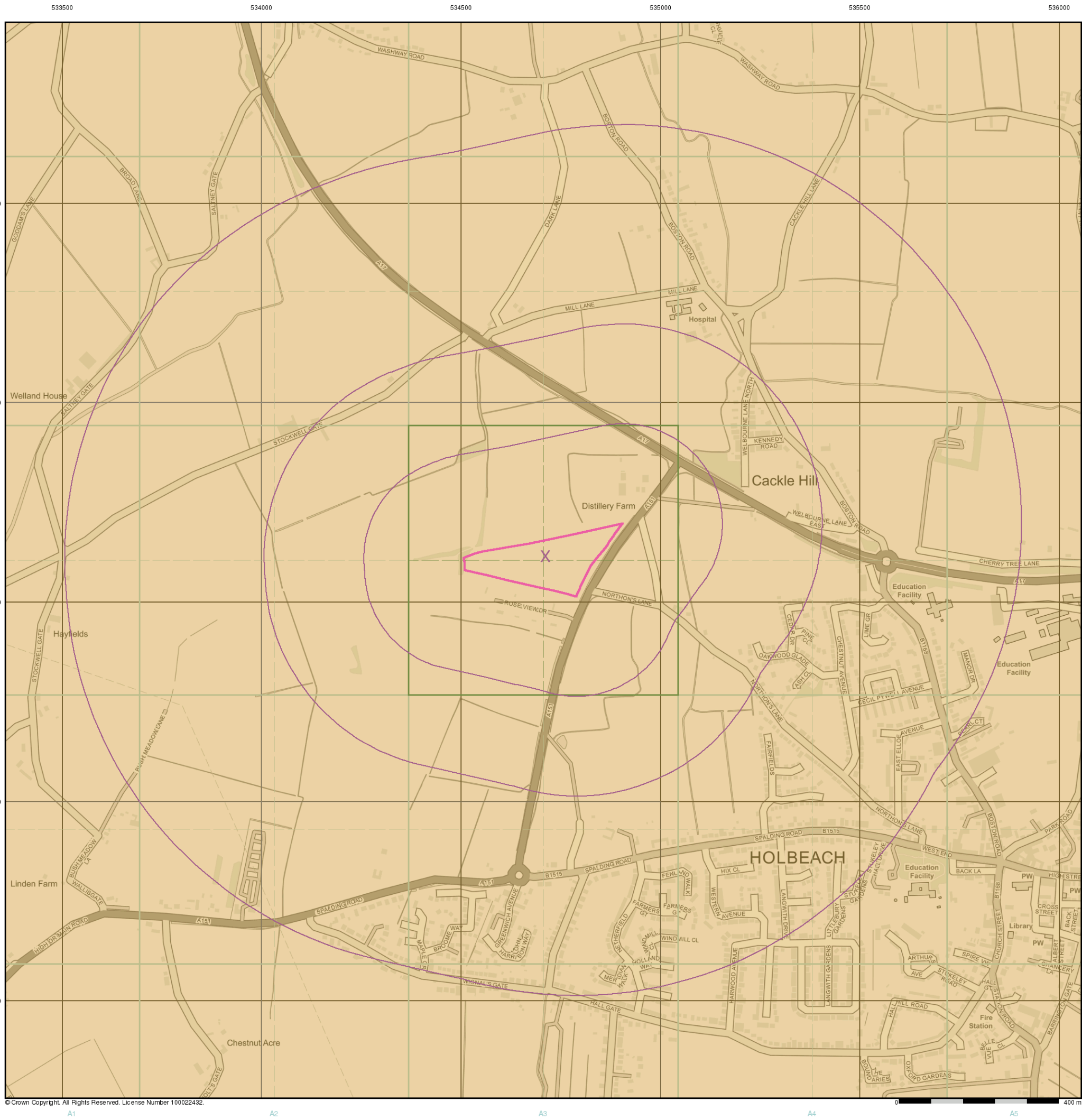
Site at, Holbeach, Lincolnshire

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A Landmark Information Group Service v50.0 22-Jan-2019 Page 1 of 5

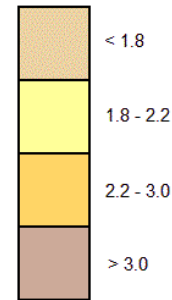


General

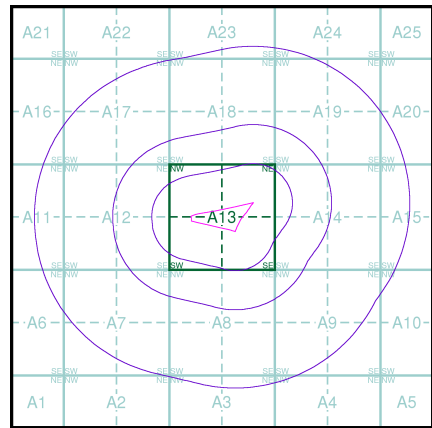
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

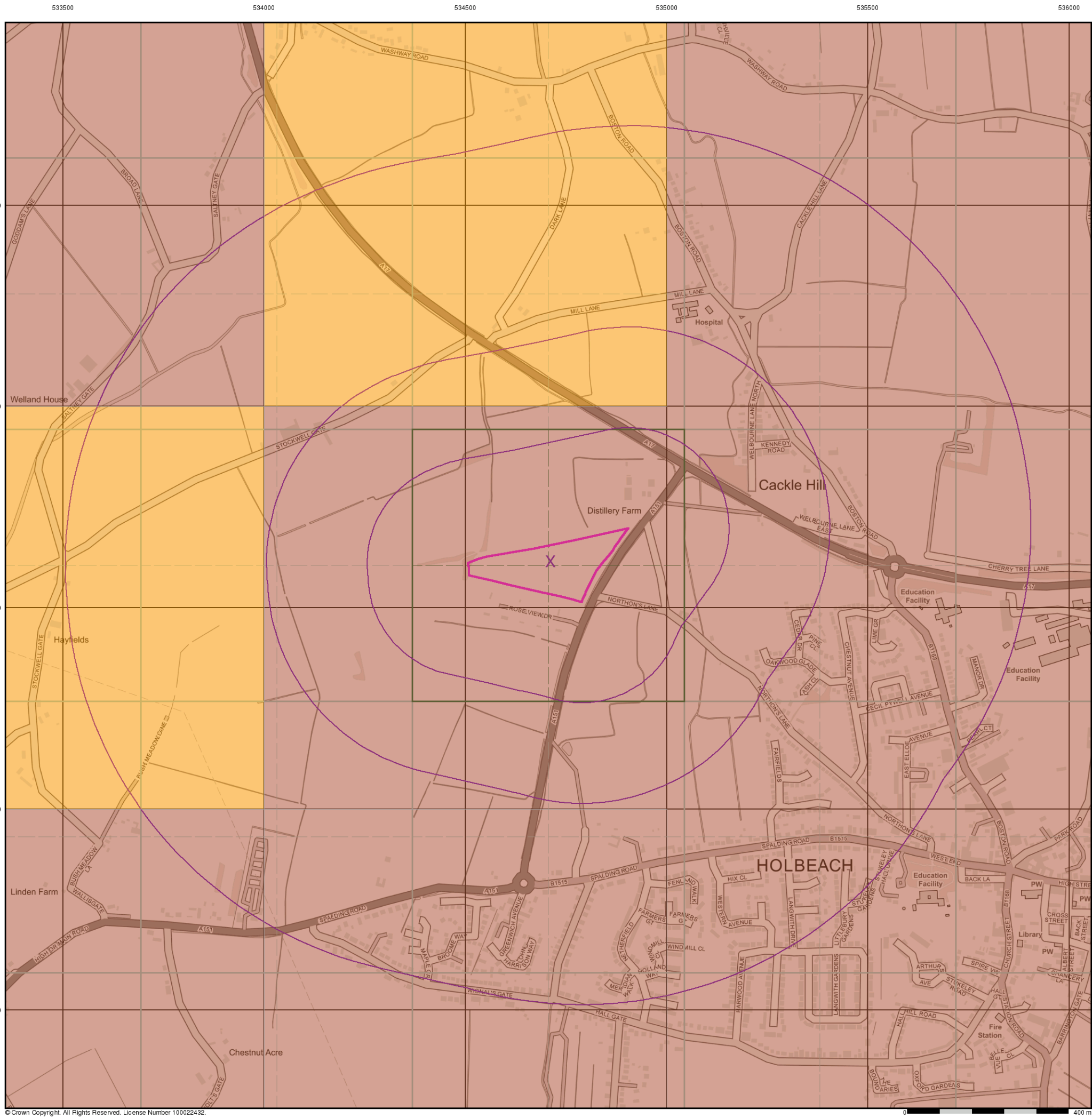


Order Details

Order Details: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire

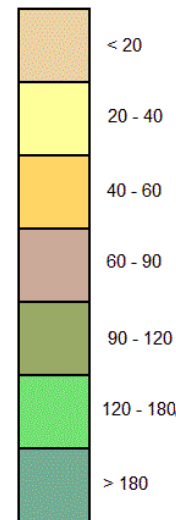


General

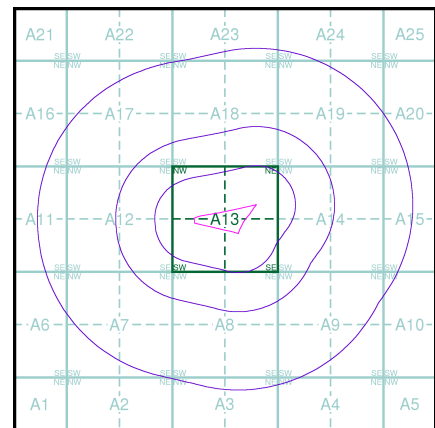
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

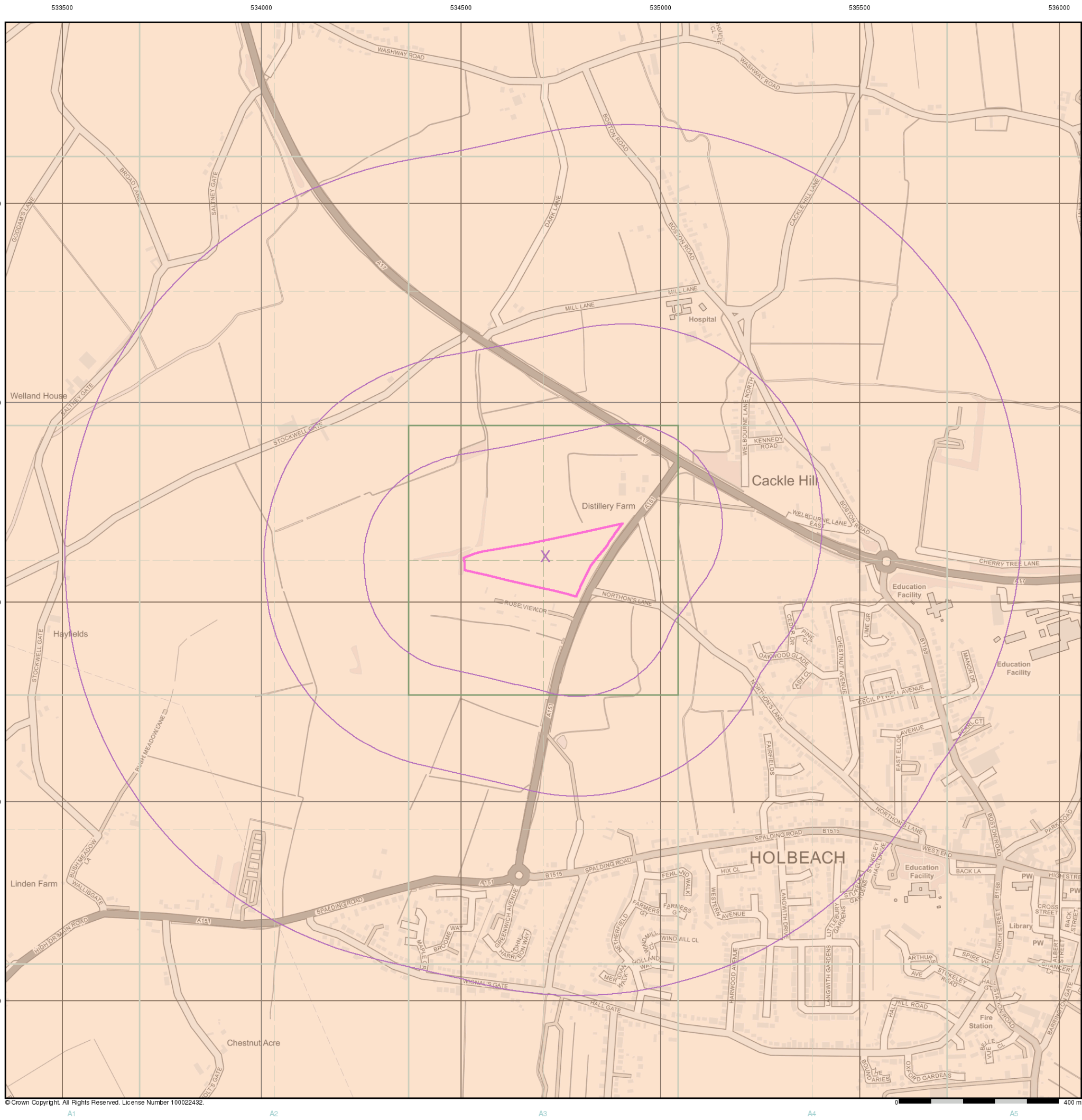


Order Details

Order Details: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire

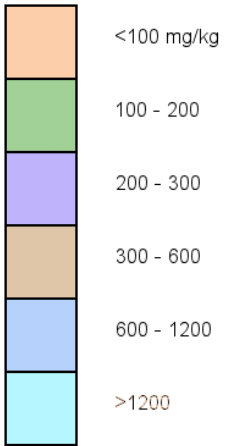


General

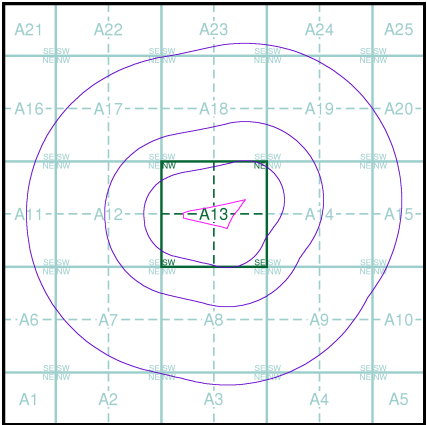
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire



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General

🔺 Specified Site 🌀 Specified Buffer(s) ✕ Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A

Order Details

Order Details:	191780895_1_1
Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	1000

Site Details

Site at, Holbeach, Lincolnshire

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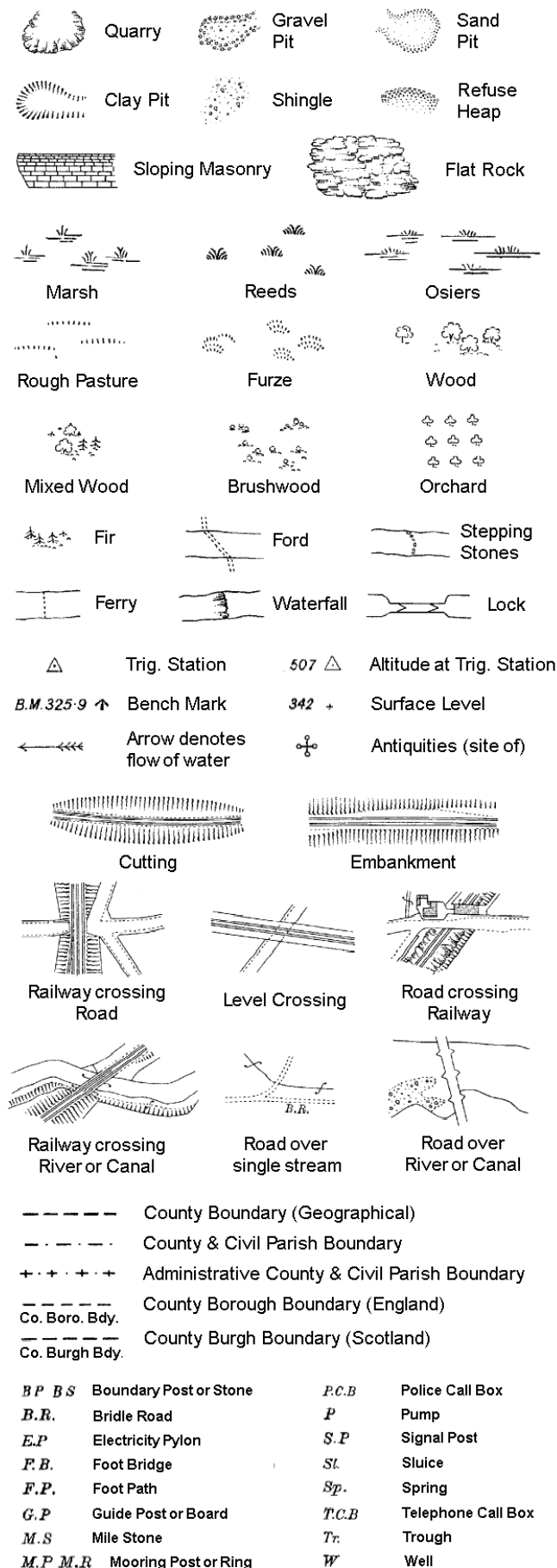
A1 A2 A3 A4 A5

0 400 m

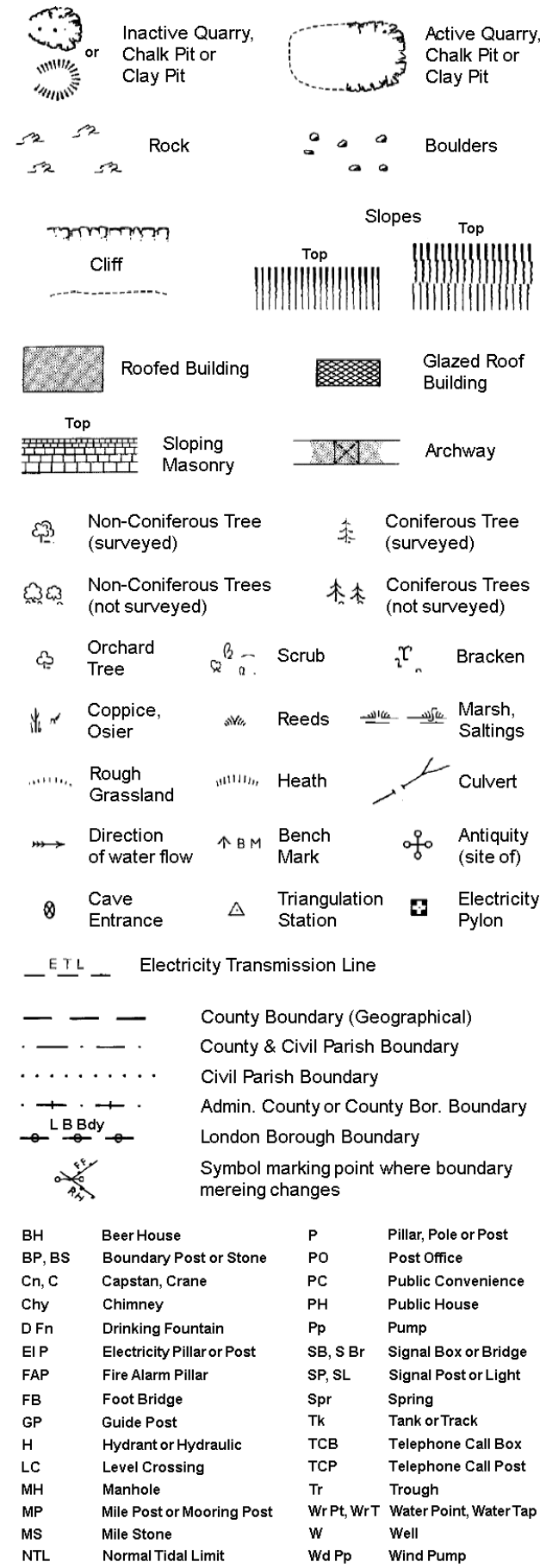
A Landmark Information Group Service v50.0 22-Jan-2019 Page 5 of 5

Historical Mapping Legends

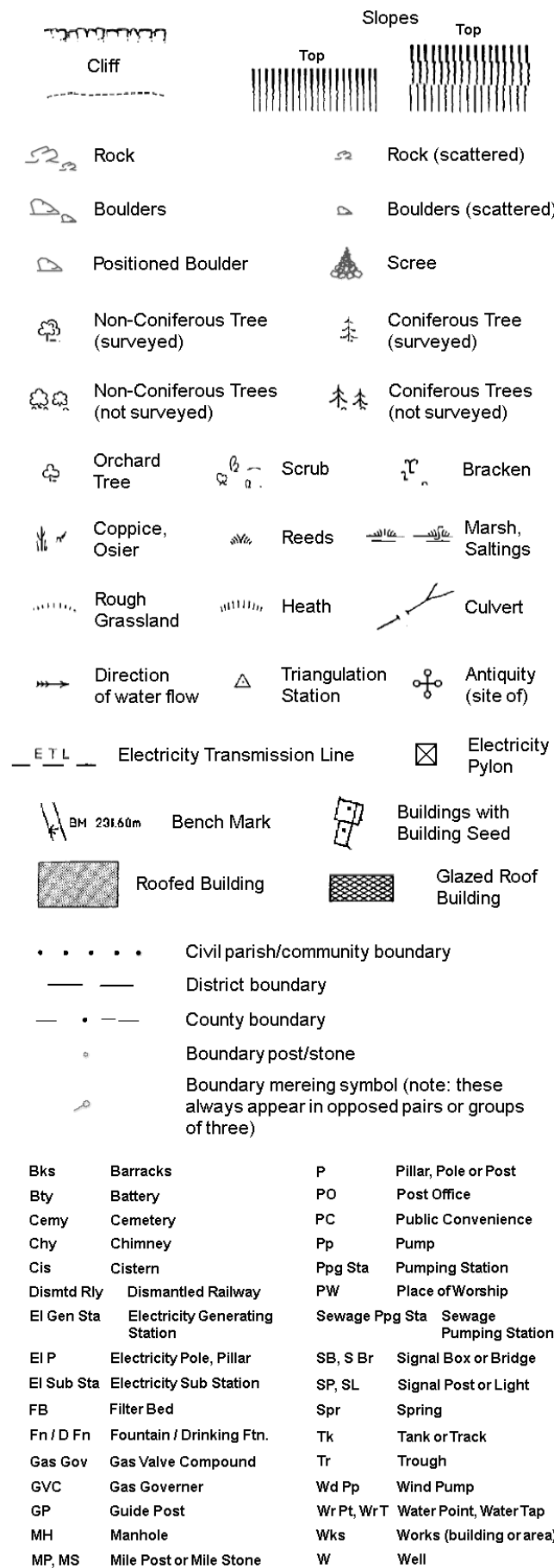
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



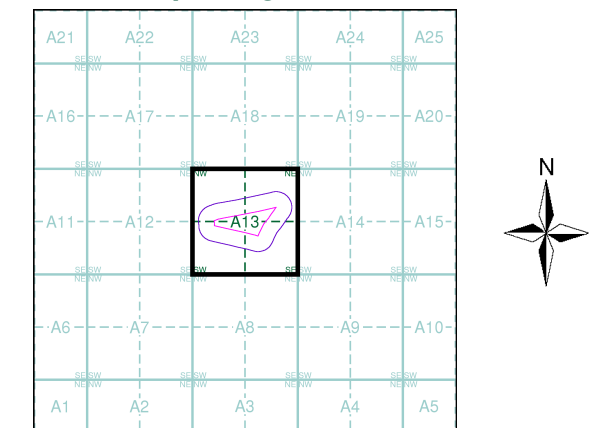
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1888	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1969	5
Supply of Unpublished Survey Information	1:2,500	1976	6
Additional SIMs	1:2,500	1977 - 1991	7
Additional SIMs	1:2,500	1982	8
Additional SIMs	1:2,500	1992	9
Large-Scale National Grid Data	1:2,500	1995	10
Historical Aerial Photography	1:2,500	1999	11

Historical Map - Segment A13



Order Details

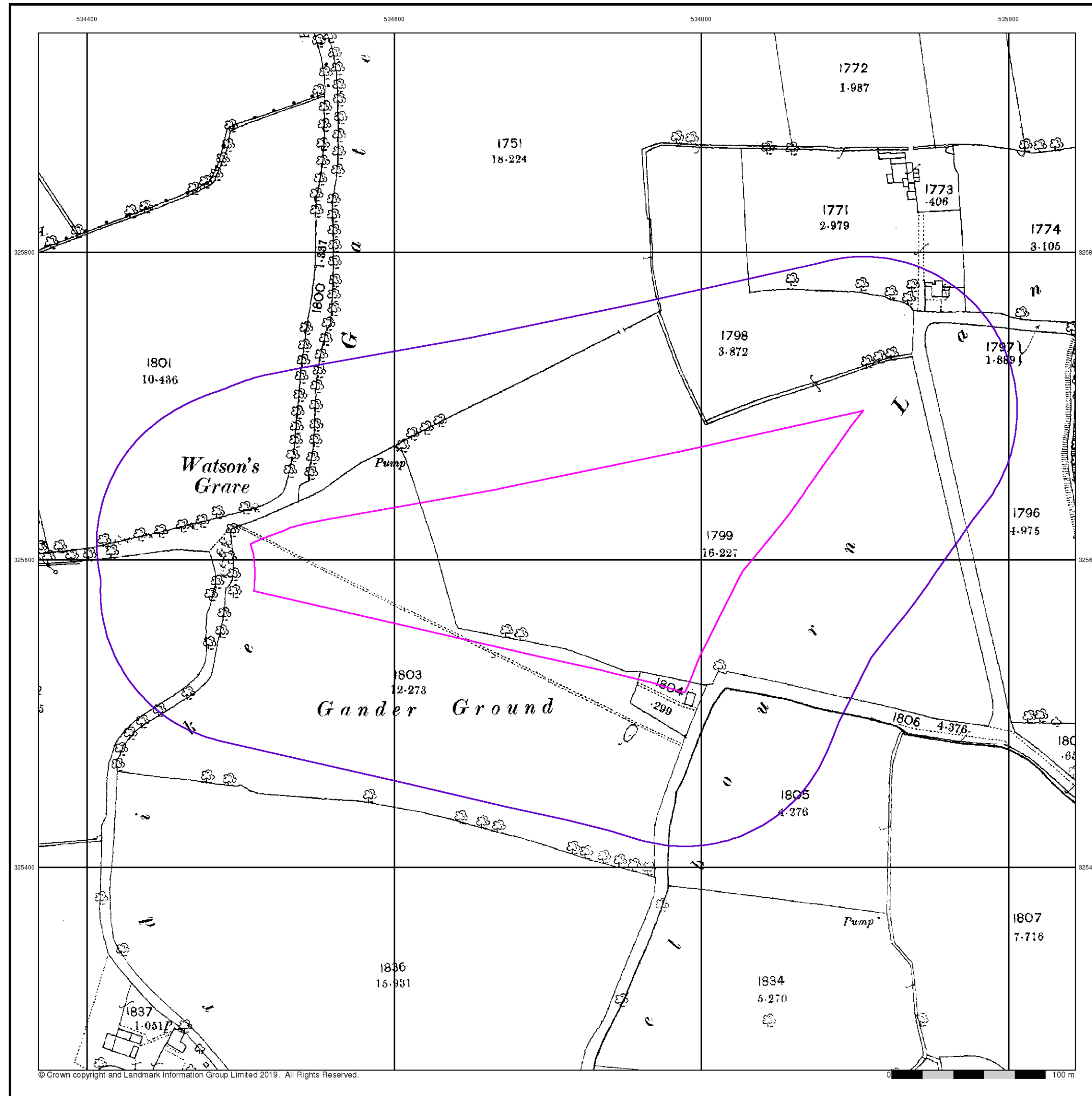
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire

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Lincolnshire

Published 1888

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

135_10

1888

1:2,500

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:	191780895_1_1
Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	100

Site Details

Site at, Holbeach, Lincolnshire

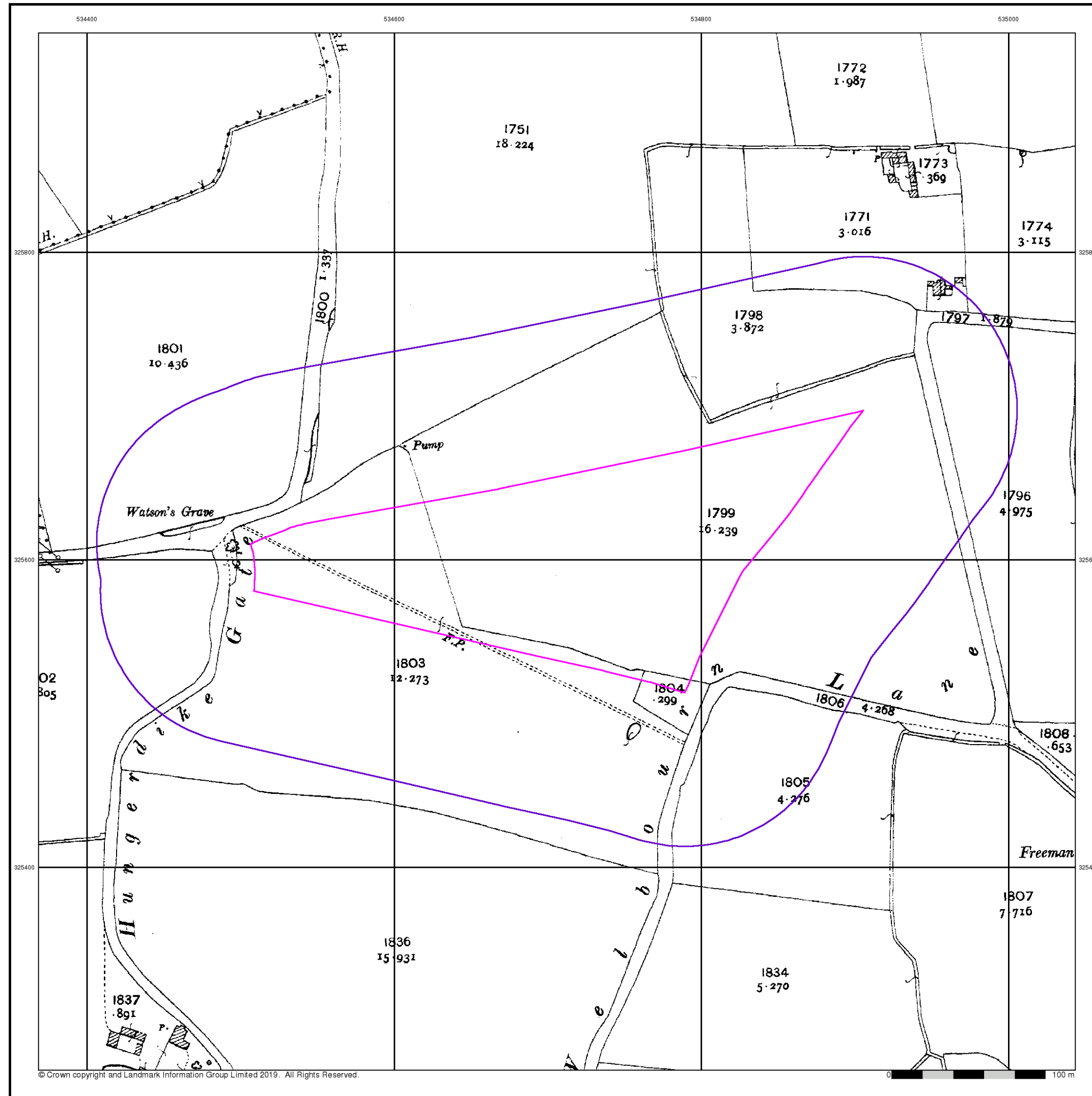
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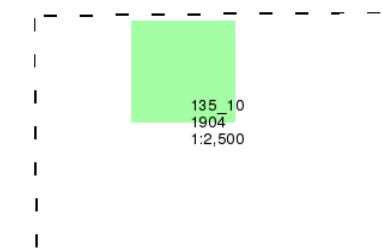
Lincolnshire

Published 1904

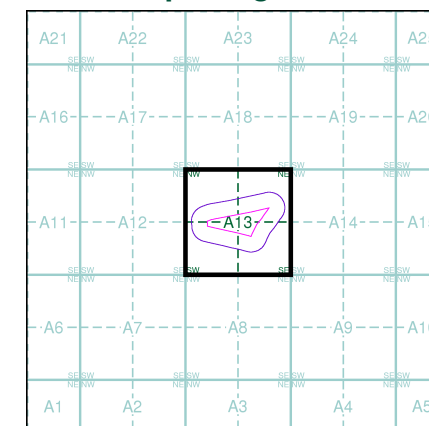
Source map scale - 1:2,500

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

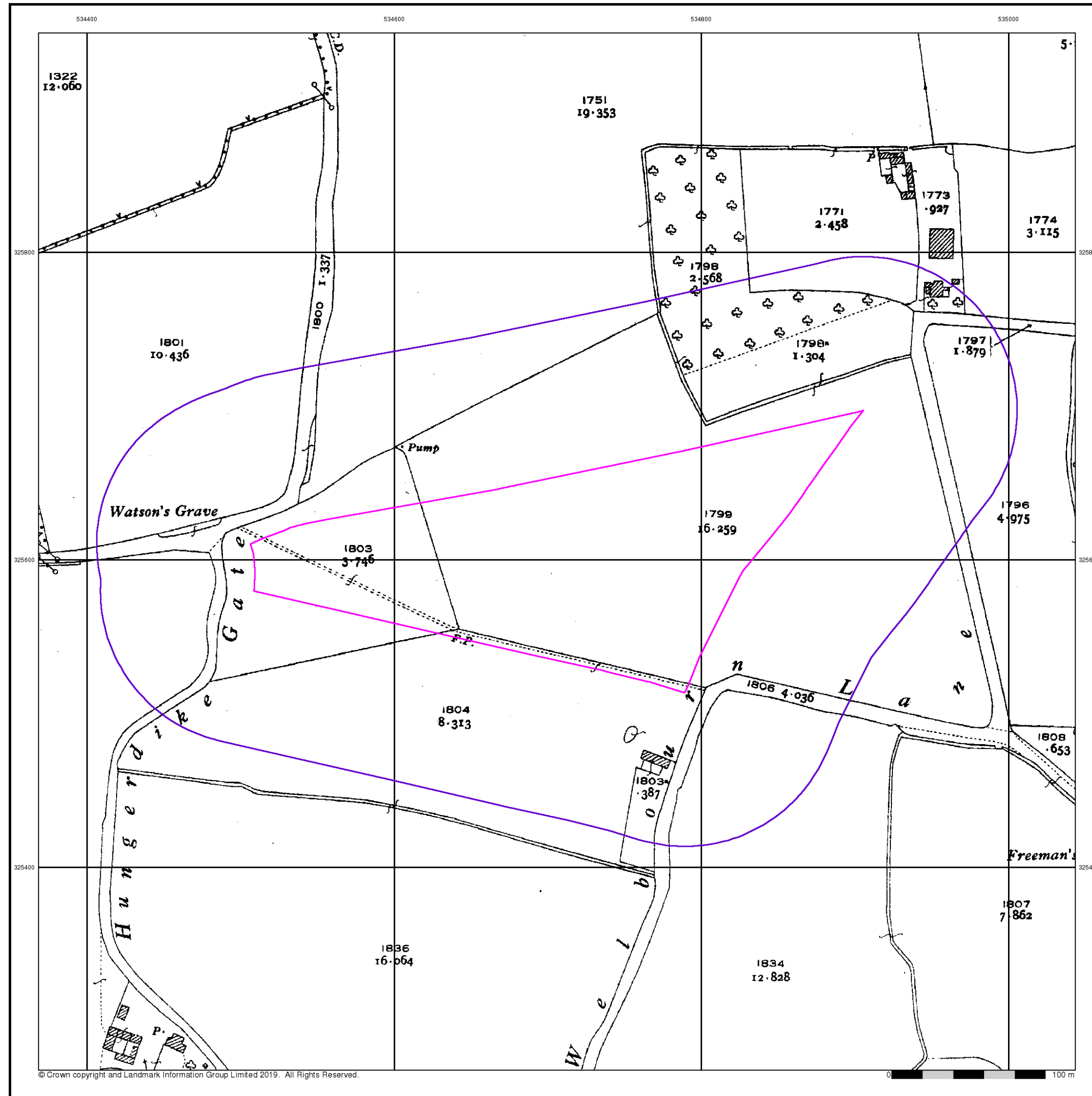
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Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire

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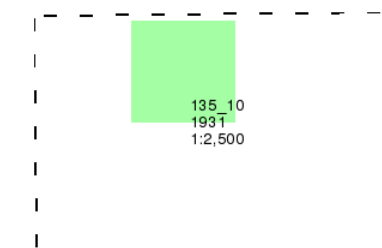
Lincolnshire

Published 1931

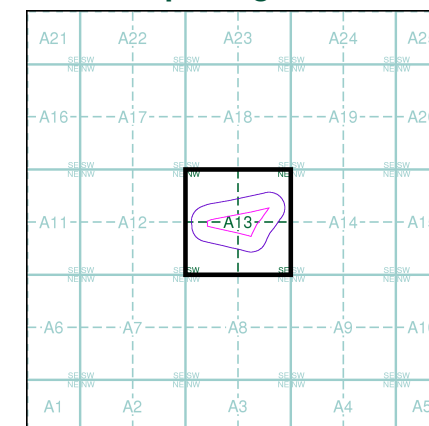
Source map scale - 1:2,500

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

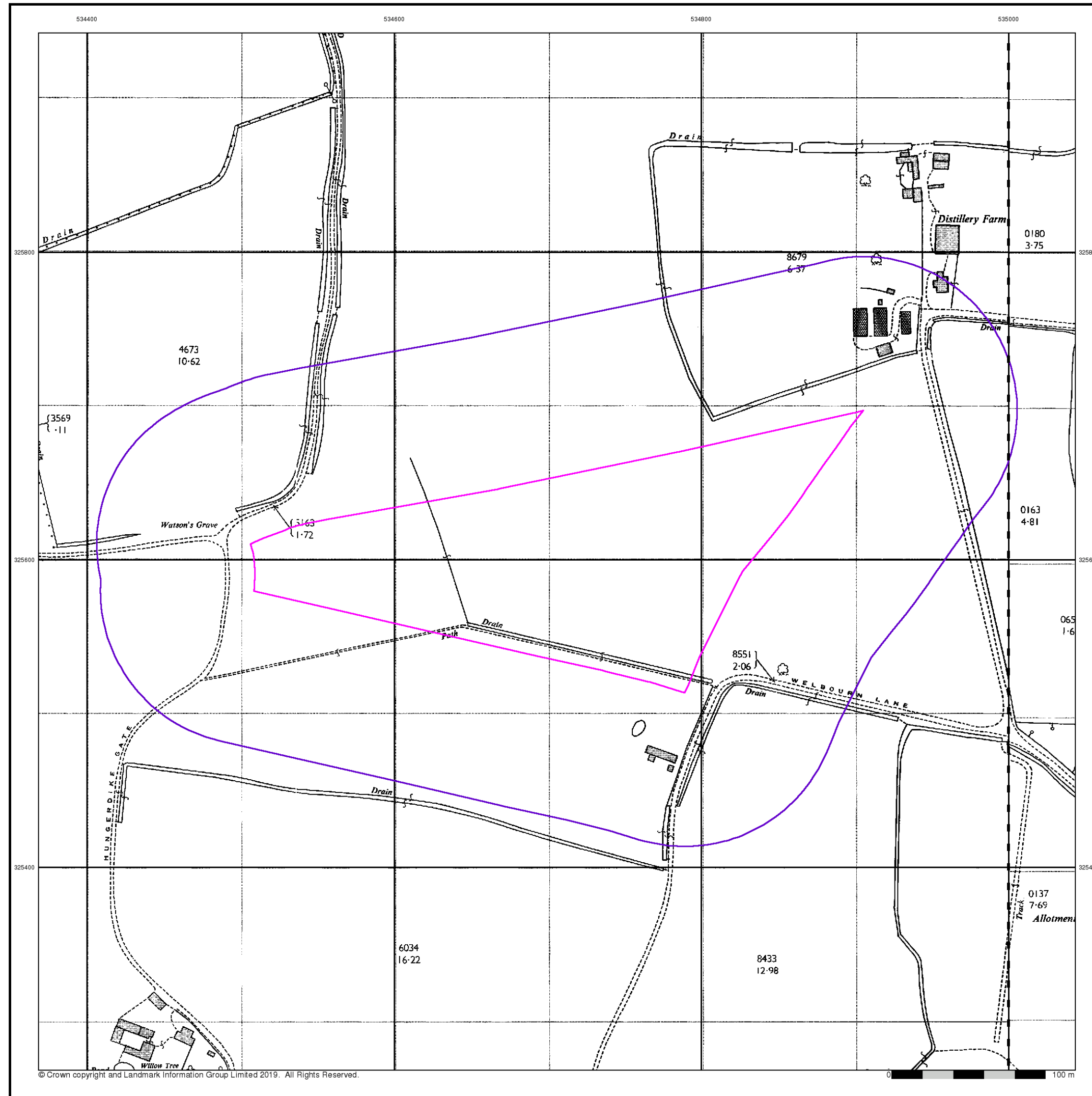
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire

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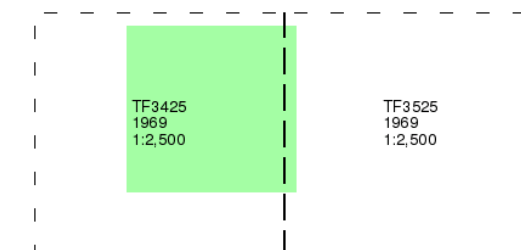
Ordnance Survey Plan

Published 1969

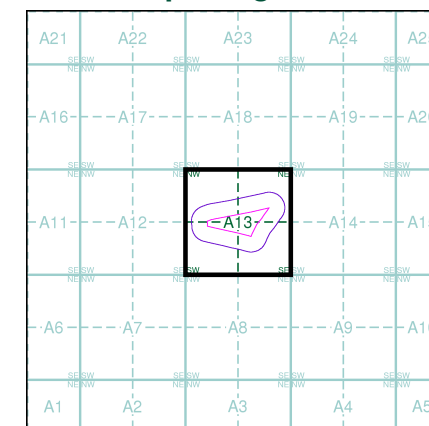
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

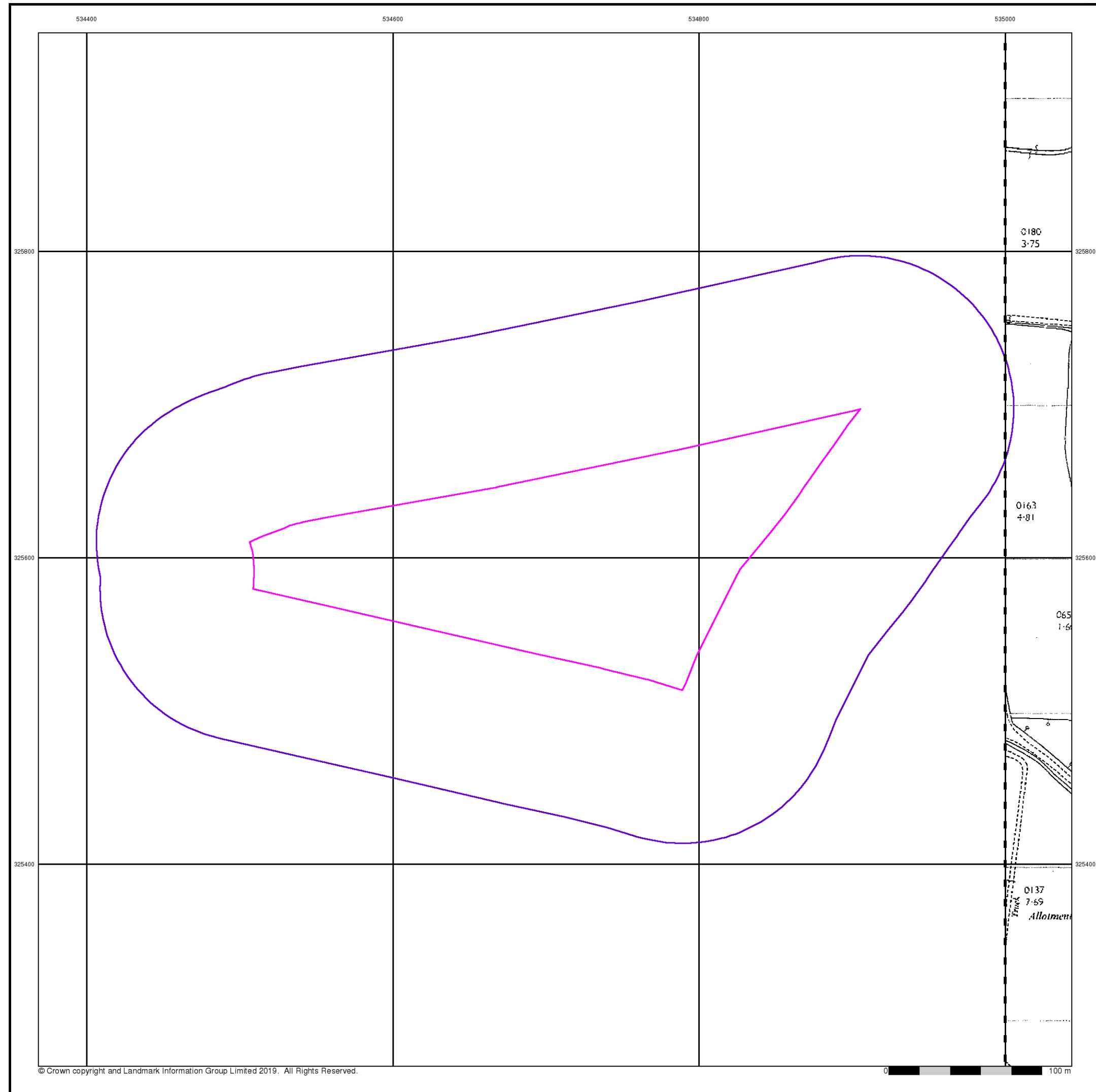
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire

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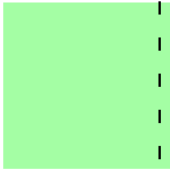
Supply of Unpublished Survey Information

Published 1976

Source map scale - 1:2,500

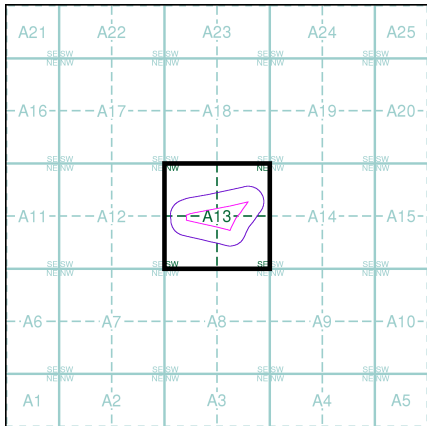
SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment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

Map Name(s) and Date(s)



TF3525
1976
1:2,500

Historical Map - Segment A13



Order Details

Order Number:	191780895_1_1
Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	100

Site Details

Site at, Holbeach, Lincolnshire

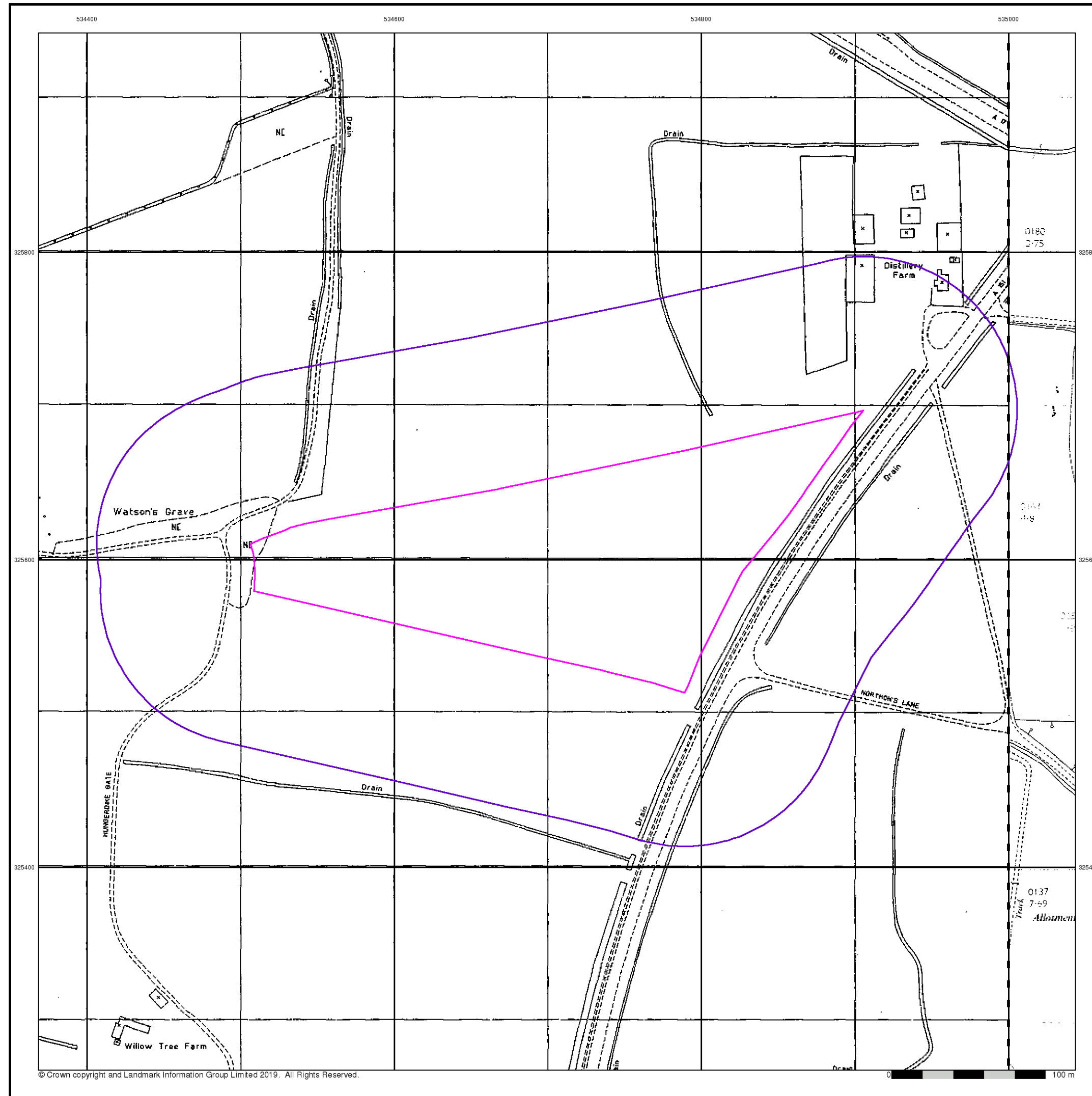
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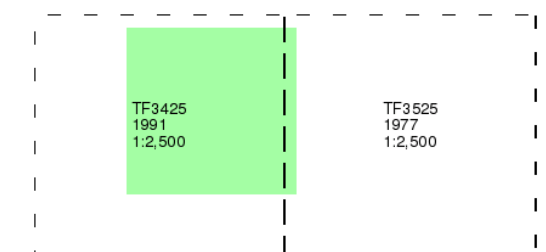
Additional SIMs

Published 1977 - 1991

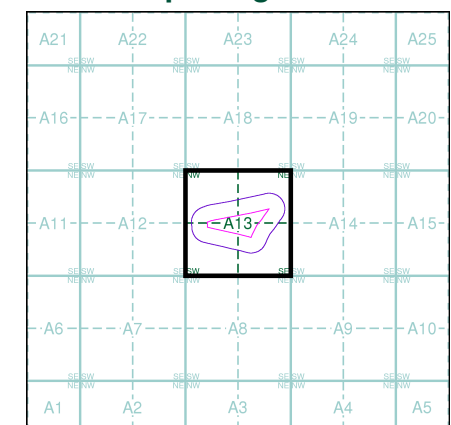
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

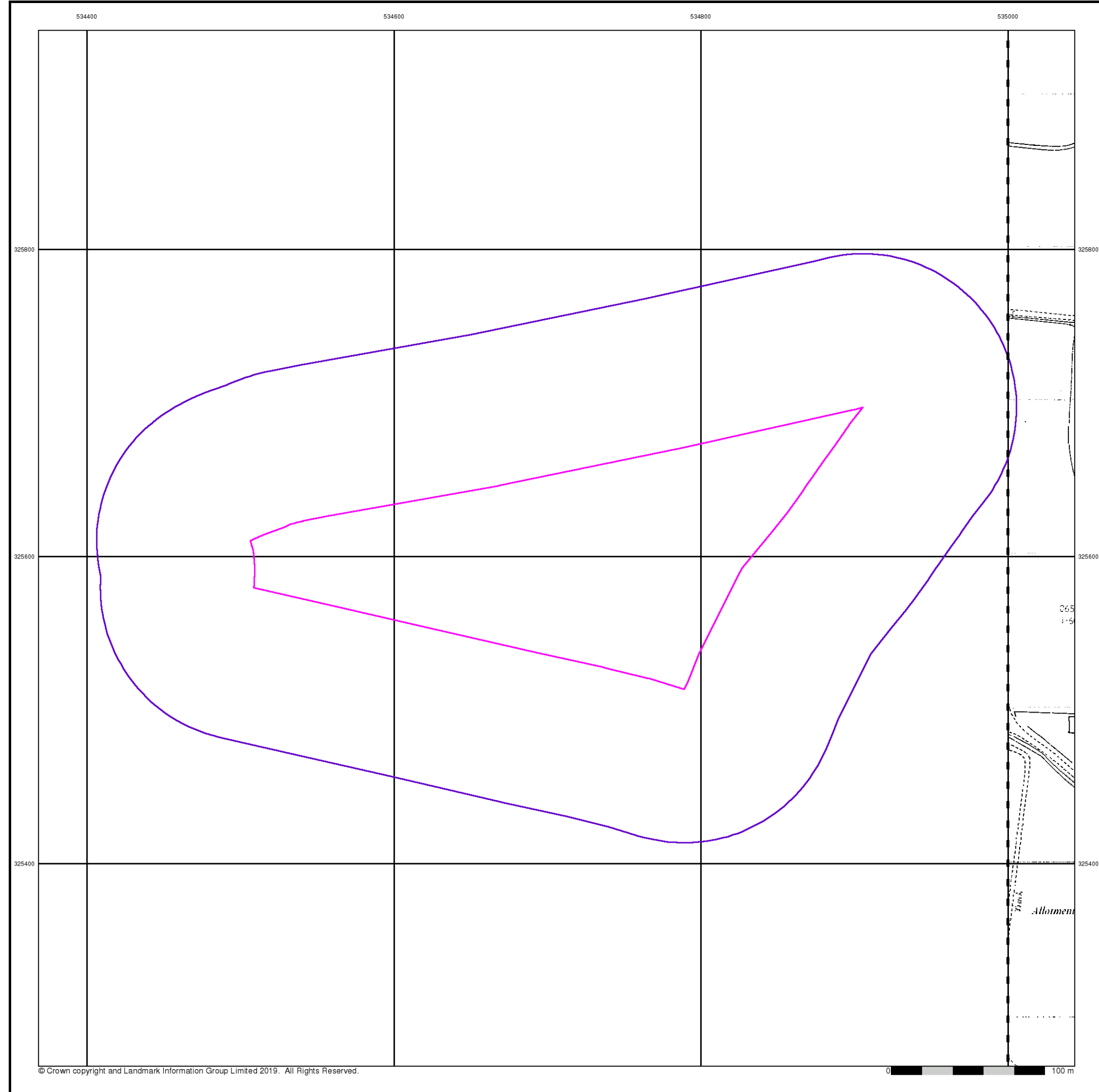


Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire



Additional SIMs
Published 1982
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TF3525
1982
1:2,500

Historical Map - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5

N

Order Details

Order Number:

191780895_1_1

Customer Ref:

60550563 - Holbeach

National Grid Reference:

534710, 325620

Slice:

A

Site Area (Ha):

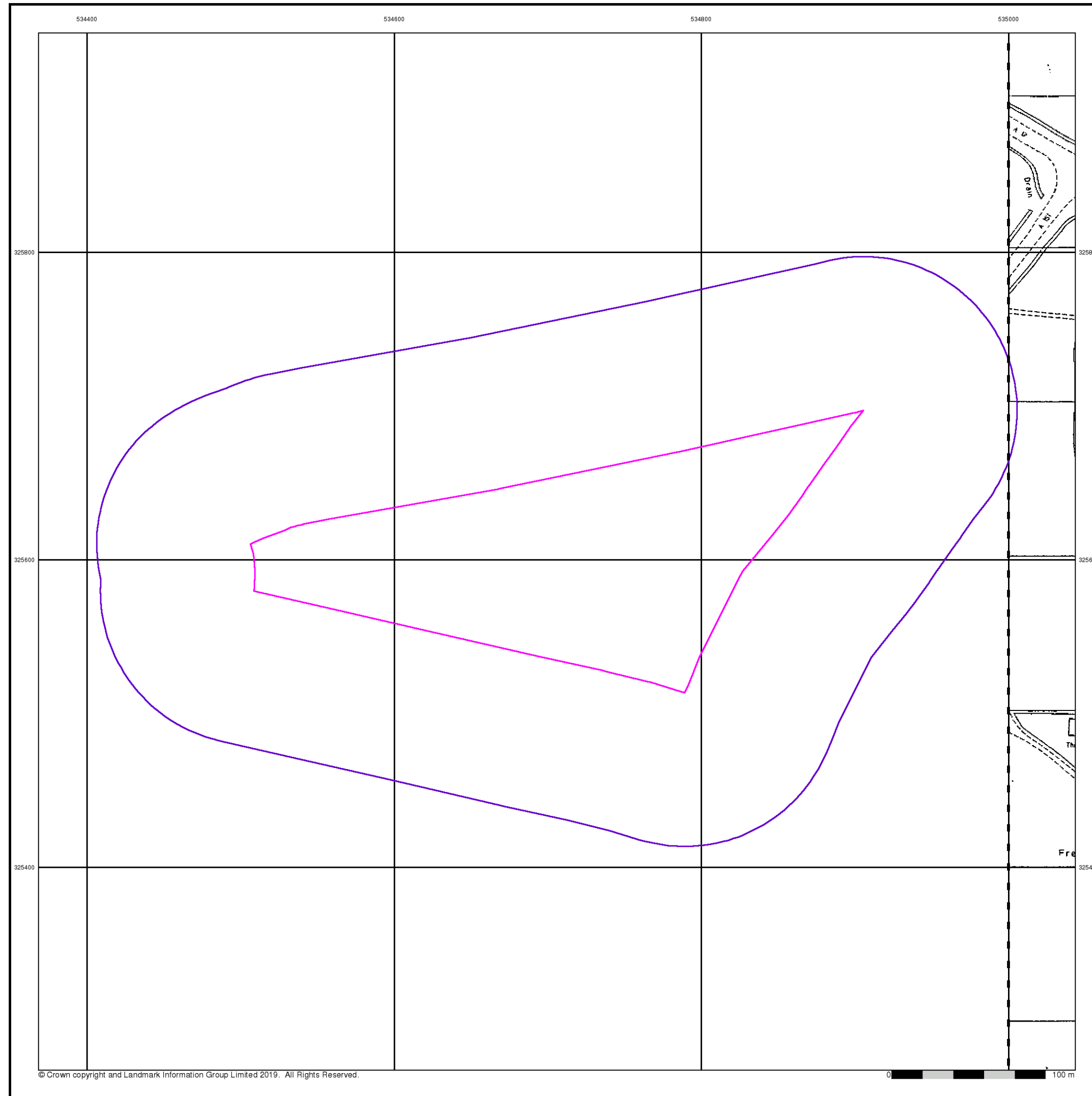
3.49

Search Buffer (m):

100

Site Details

Site at, Holbeach, Lincolnshire



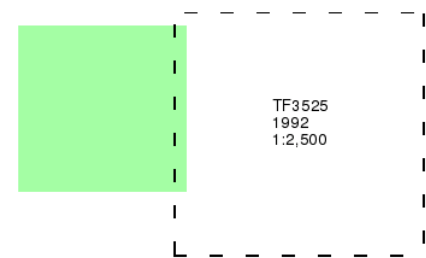
Additional SIMs

Published 1992

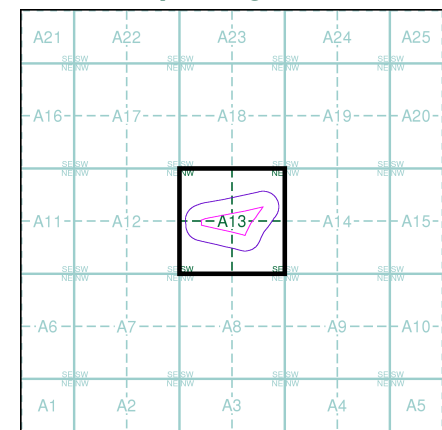
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

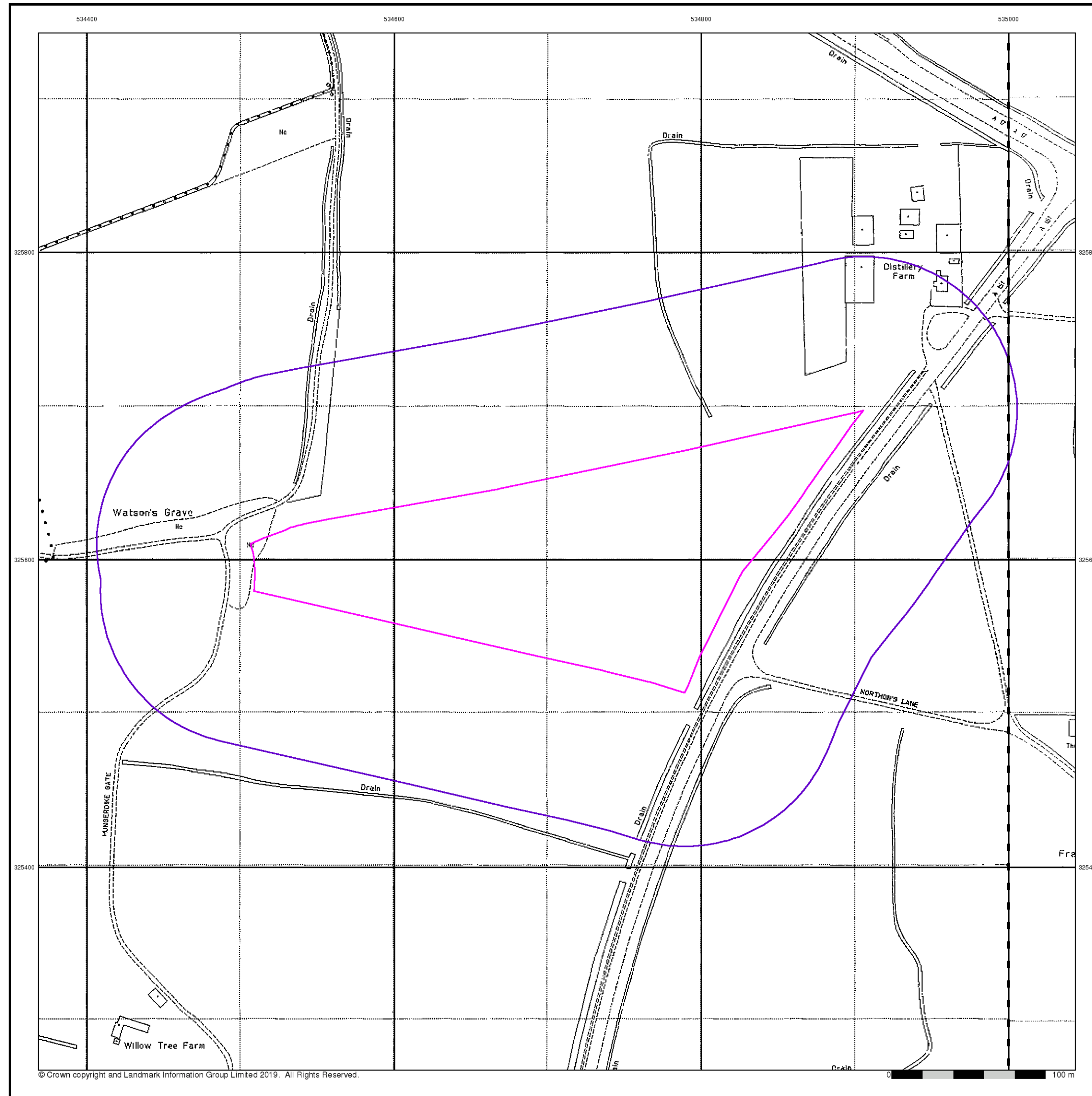


Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire



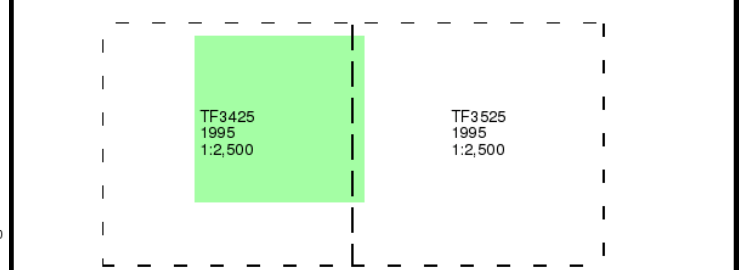
Large-Scale National Grid Data

Published 1995

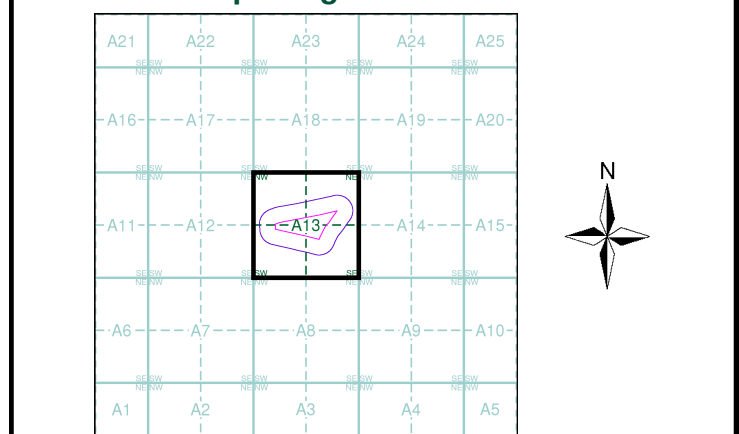
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:

191780895_1_1

Customer Ref:

60550563 - Holbeach

National Grid Reference:

534710, 325620

Slice:

A

Site Area (Ha):

3.49

Search Buffer (m):

100

Site Details

Site at, Holbeach, Lincolnshire



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0 100 m

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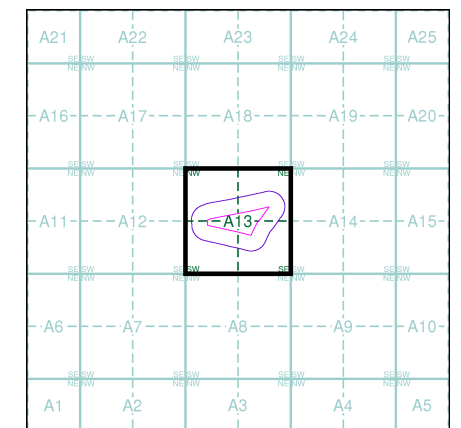
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 100

Site Details

Site at, Holbeach, Lincolnshire

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

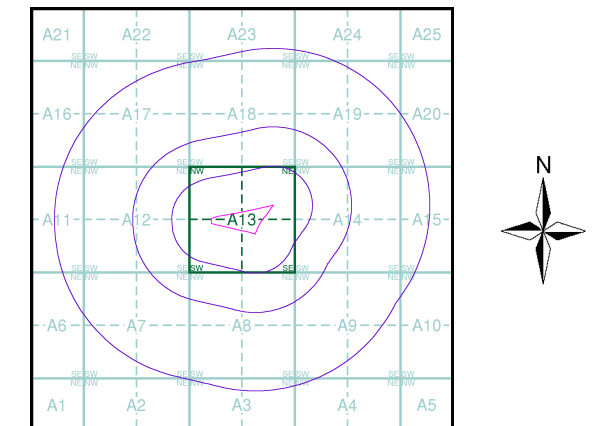
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887	2
Lincolnshire	1:10,560	1906	3
Lincolnshire	1:10,560	1906	4
Lincolnshire	1:10,560	1931 - 1932	5
Lincolnshire	1:10,560	1931	6
Lincolnshire	1:10,560	1938 - 1952	7
Lincolnshire	1:10,560	1951	8
Ordnance Survey Plan	1:10,000	1956 - 1959	9
Ordnance Survey Plan	1:10,000	1970 - 1977	10
Ordnance Survey Plan	1:10,000	1992	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2018	14

Historical Map - Slice A



Order Details

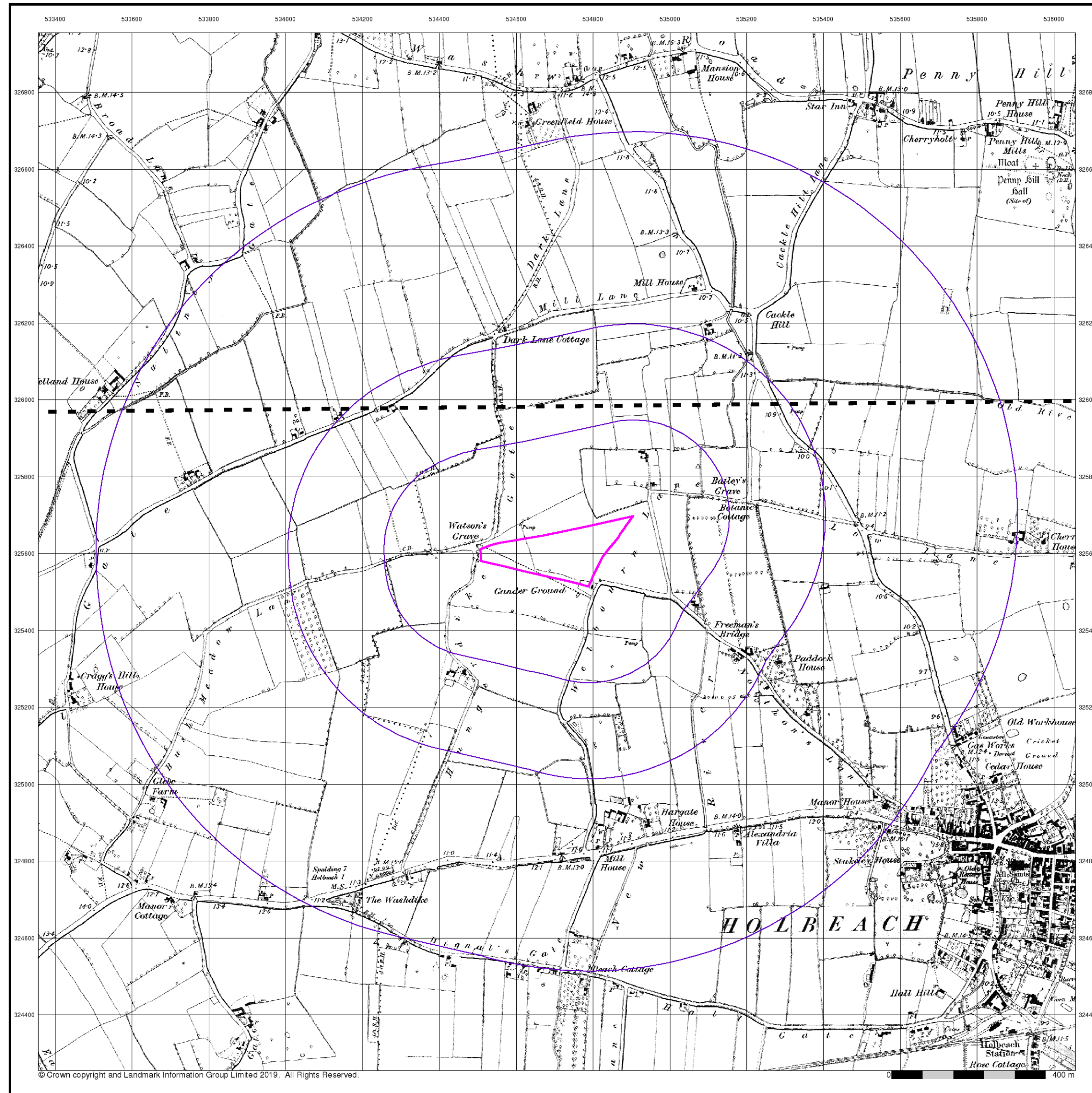
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National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

Site at, Holbeach, Lincolnshire

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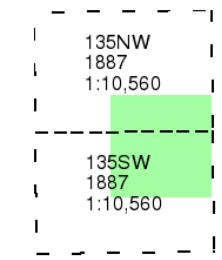
Lincolnshire

Published 1887

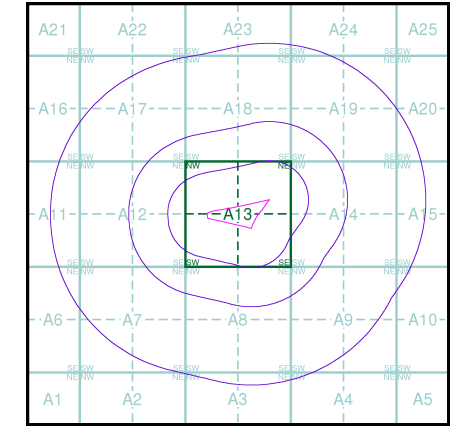
Source map scale - 1:10,560

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

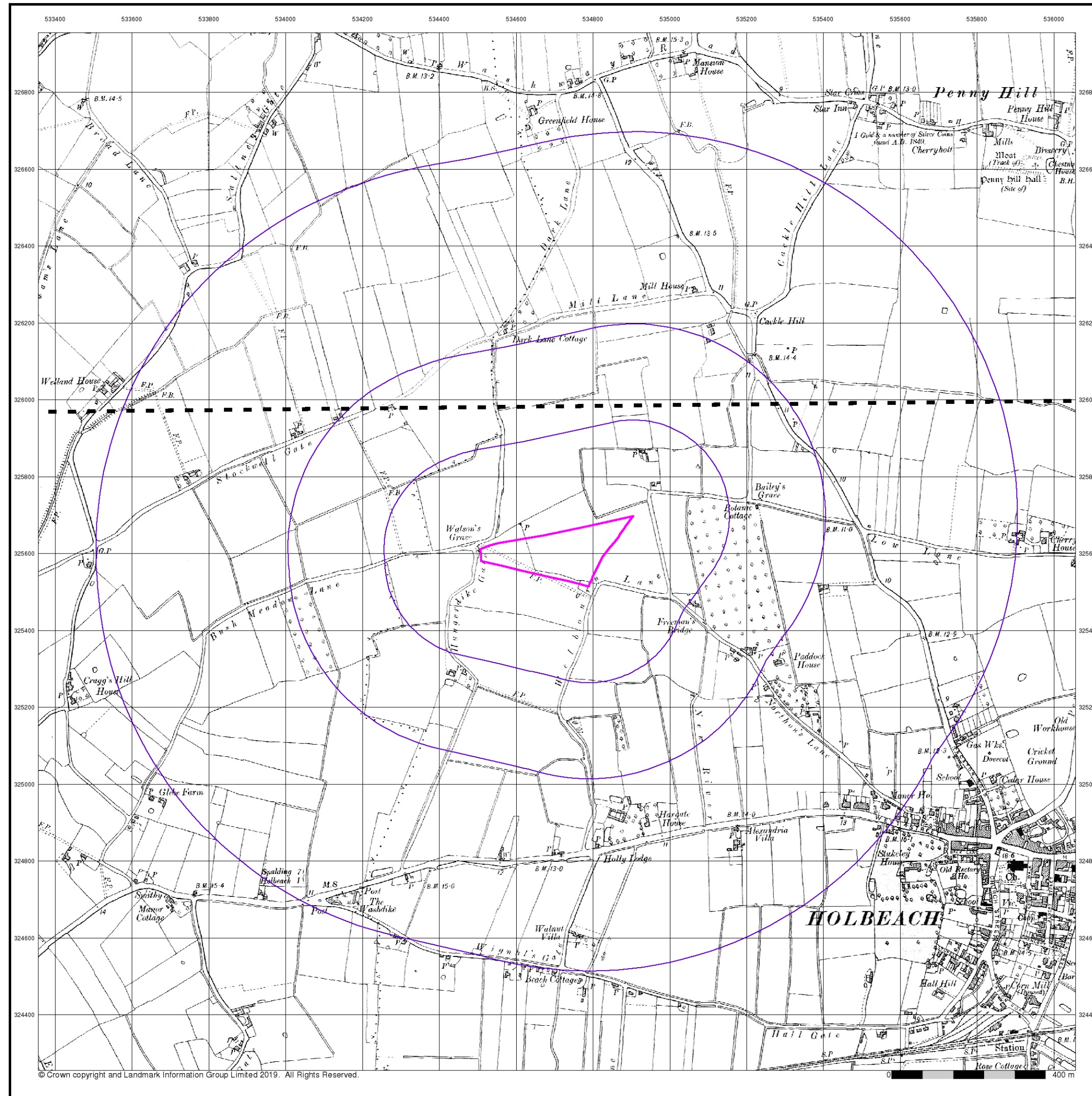
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National Grid Reference: 534710, 325620
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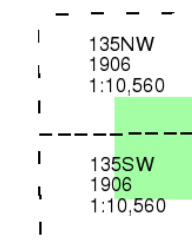
Lincolnshire

Published 1906

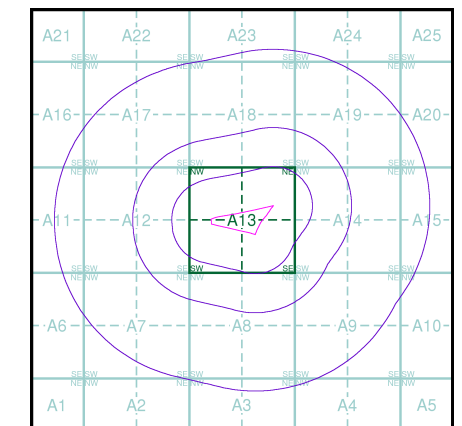
Source map scale - 1:10,560

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

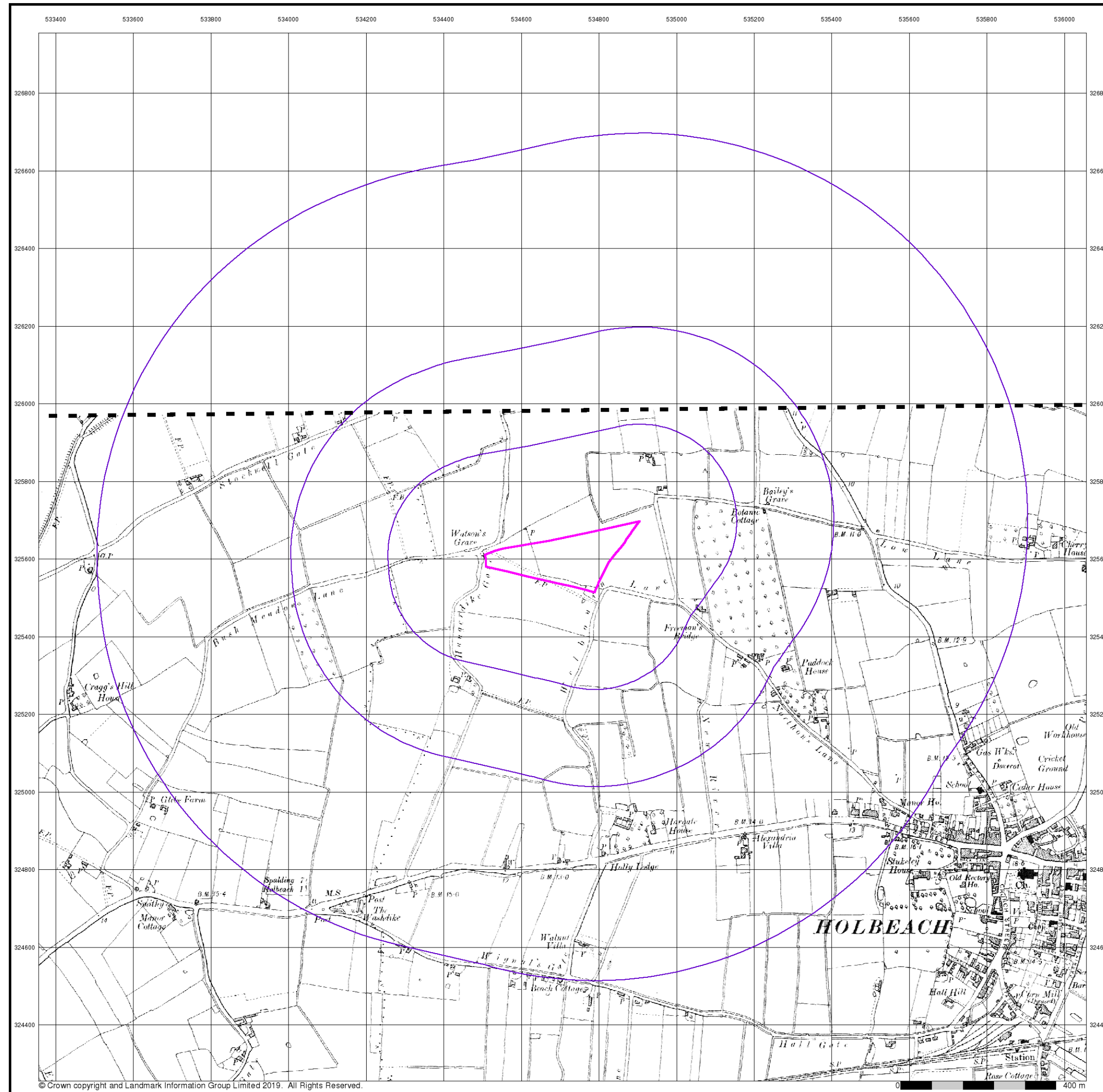
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National Grid Reference: 534710, 325620
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Search Buffer (m): 1000

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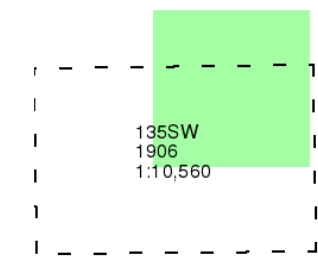
Lincolnshire

Published 1906

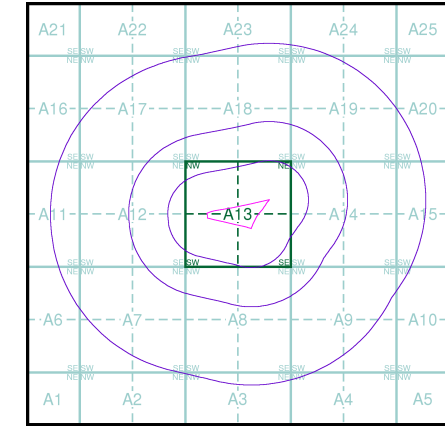
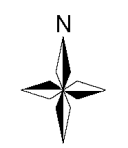
Source map scale - 1:10,560

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

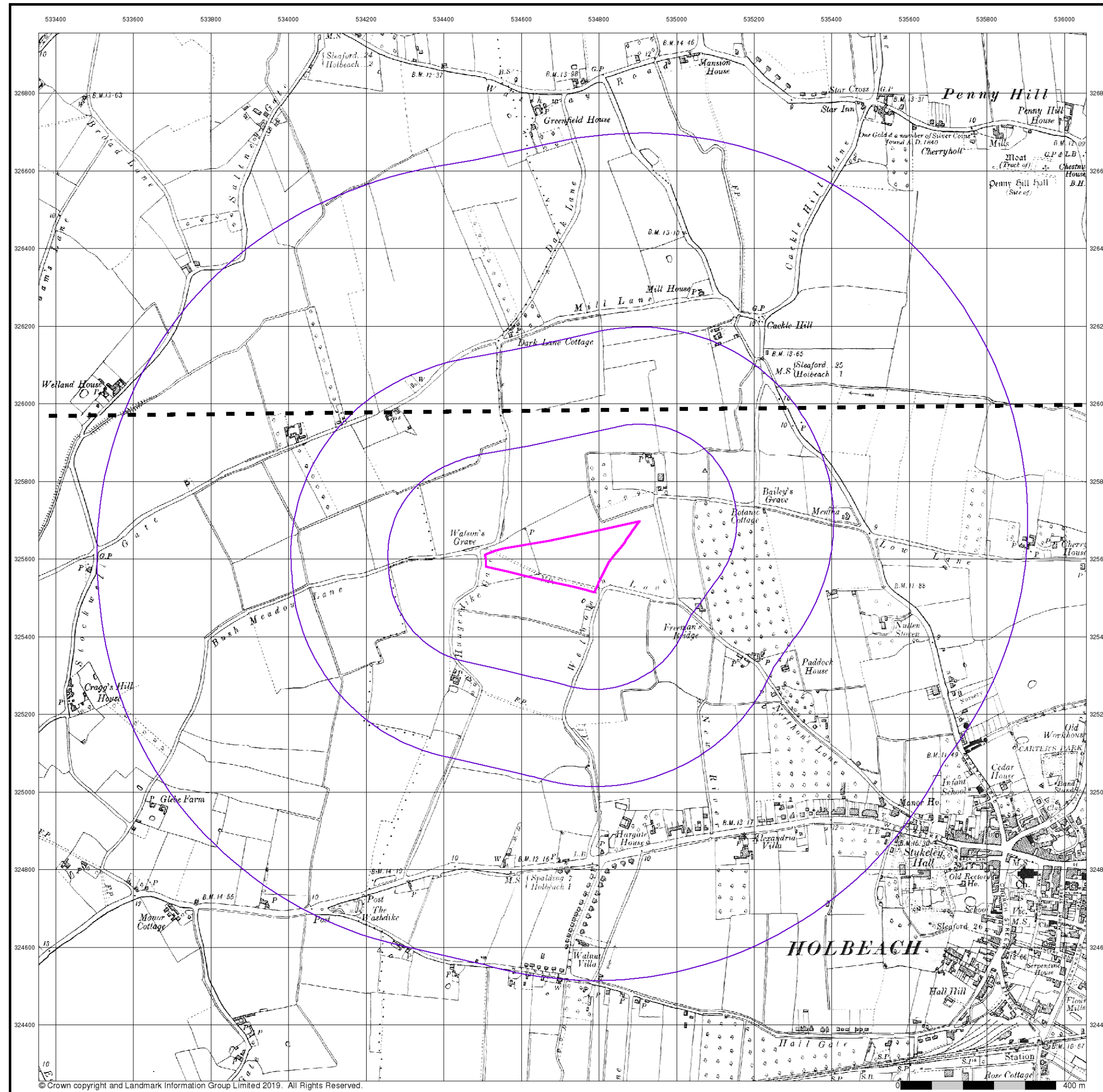


Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

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Lincolnshire

Published 1931 - 1932

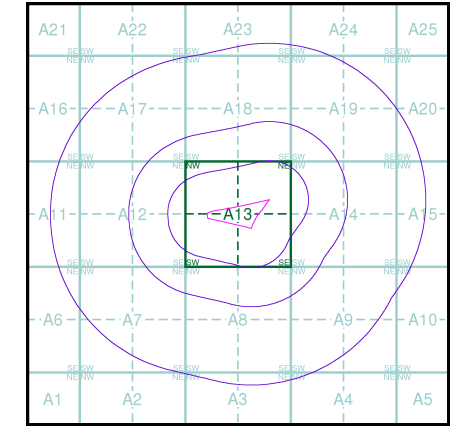
Source map scale - 1:10,560

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)

135NW	1931	1:10,560
135SW	1932	1:10,560

Historical Map - Slice A



Order Details

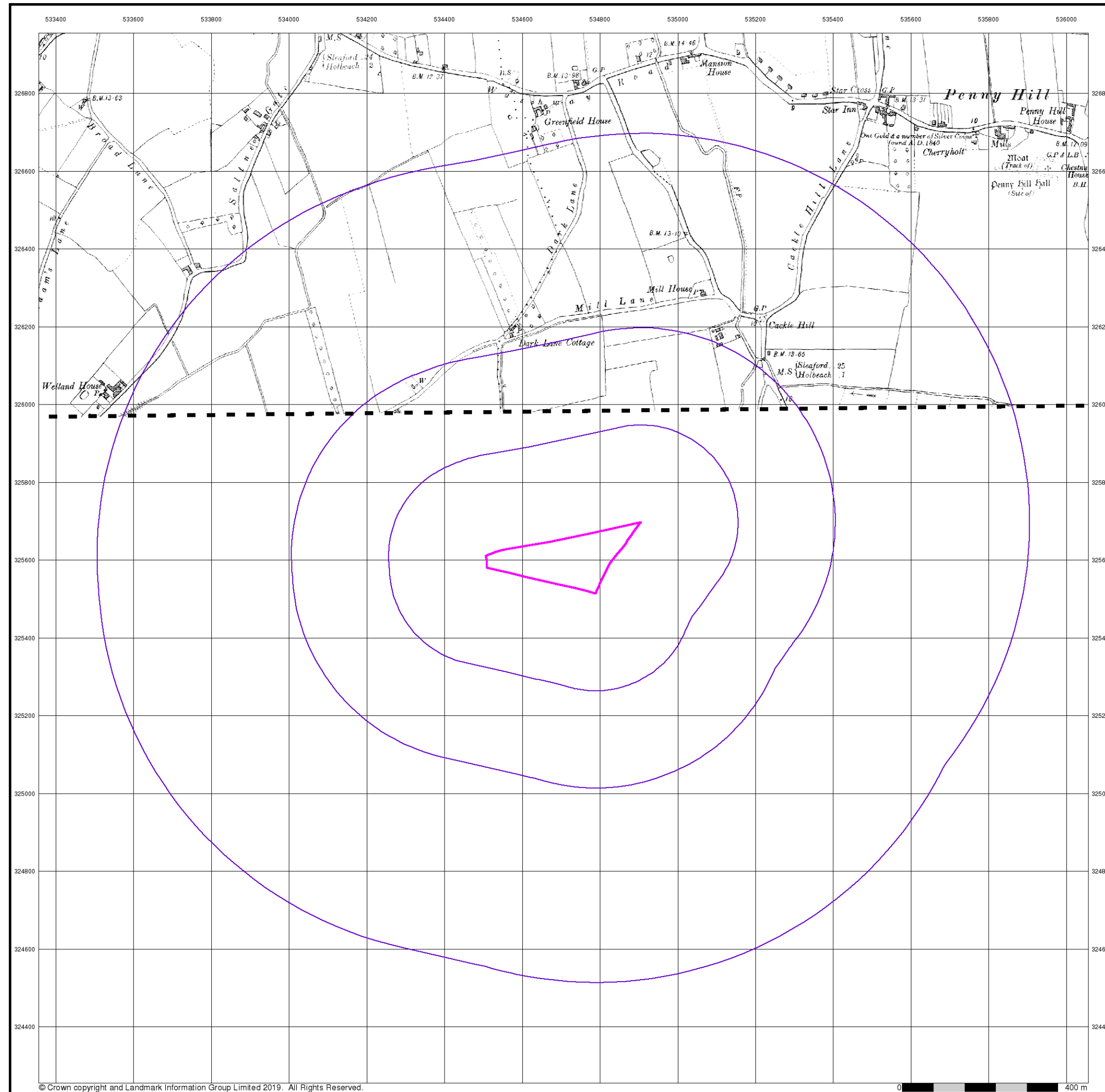
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Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	1000

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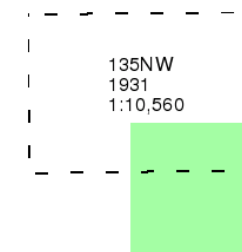
Lincolnshire

Published 1931

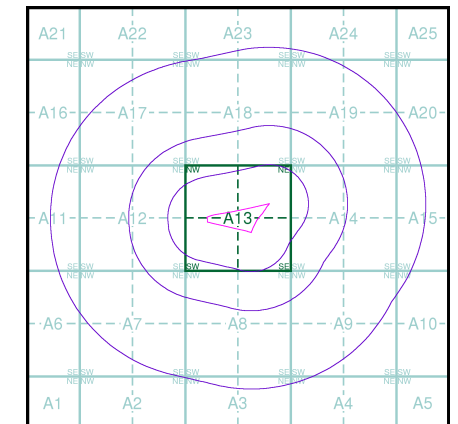
Source map scale - 1:10,560

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

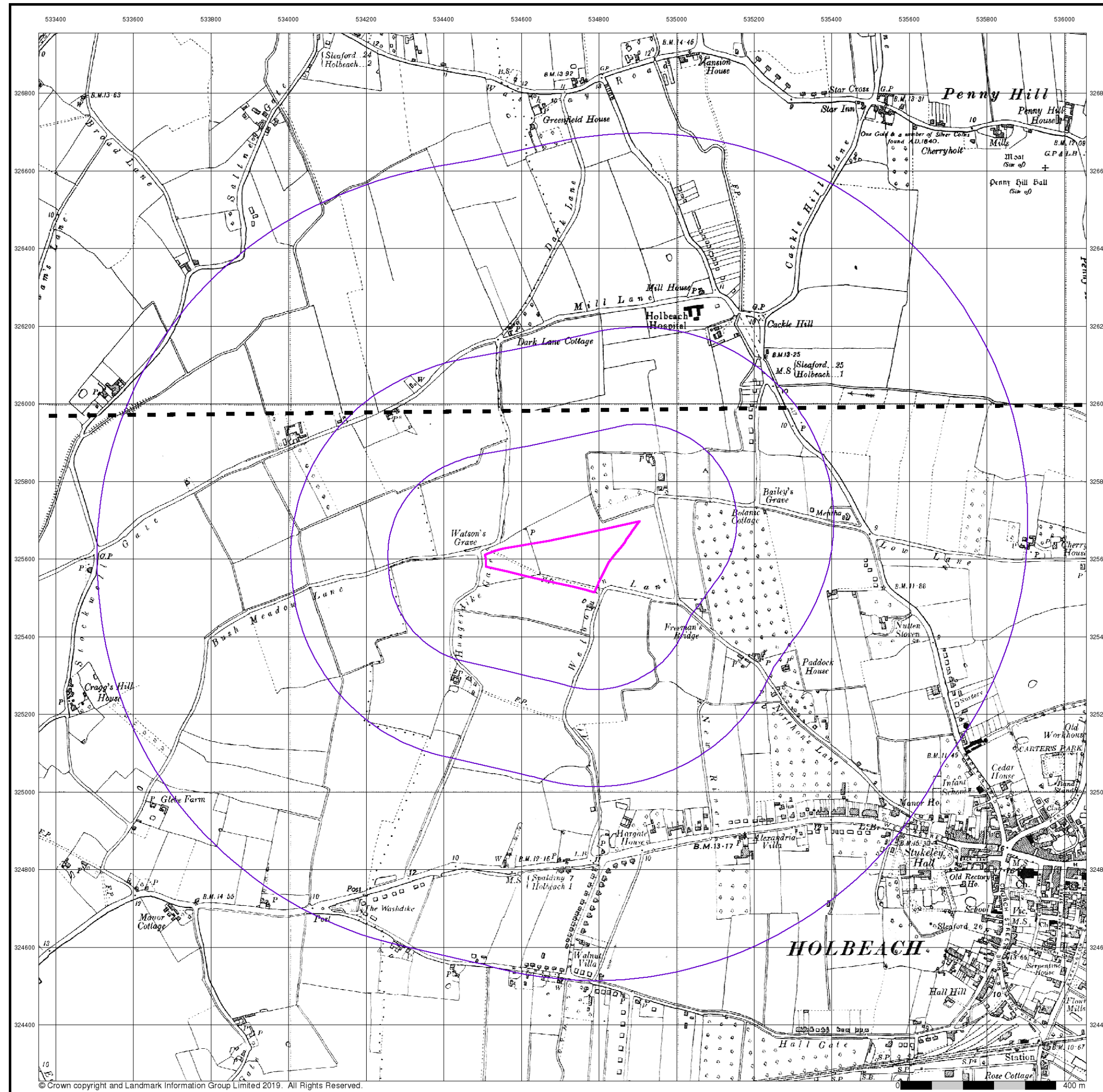
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Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
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Site Area (Ha): 3.49
Search Buffer (m): 1000

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Lincolnshire

Published 1938 - 1952

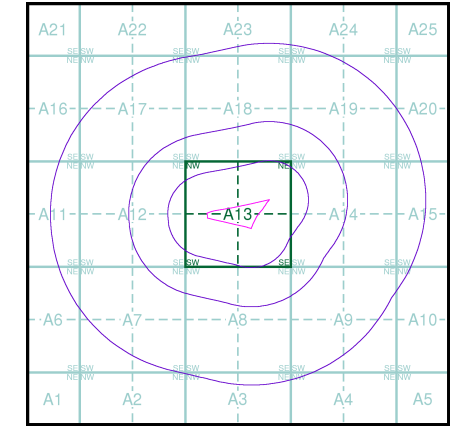
Source map scale - 1:10,560

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)

135NW
1952
1:10,560
135SW
1938
1:10,560

Historical Map - Slice A



Order Details

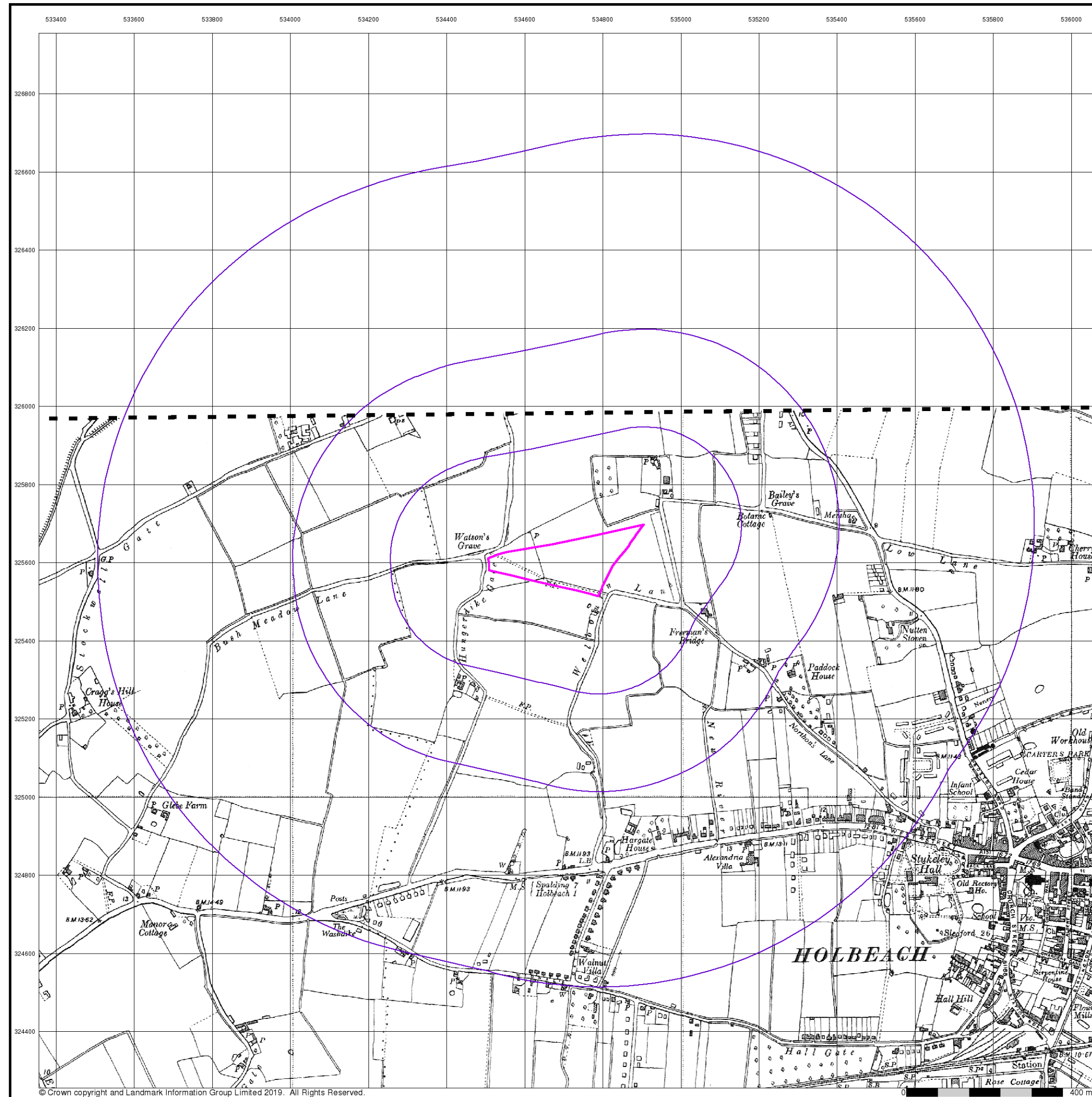
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Customer Ref:	60550563 - Holbeach
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Site Area (Ha):	3.49
Search Buffer (m):	1000

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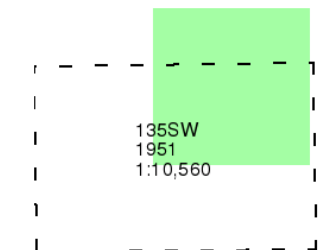
Lincolnshire

Published 1951

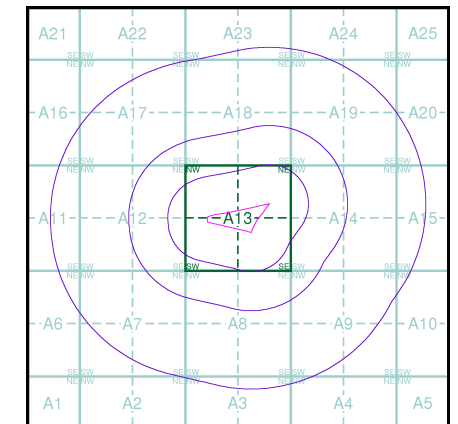
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

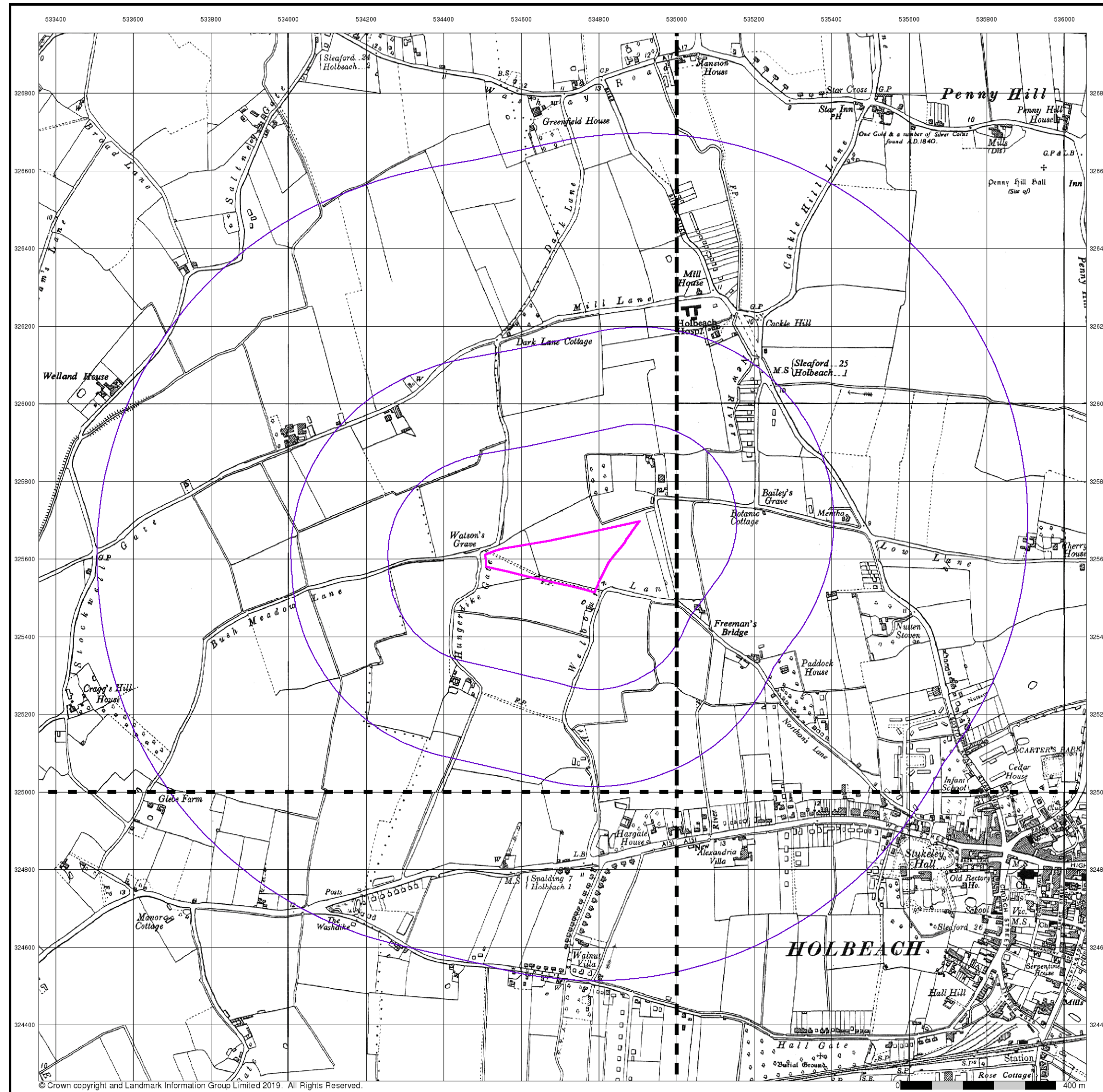
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Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
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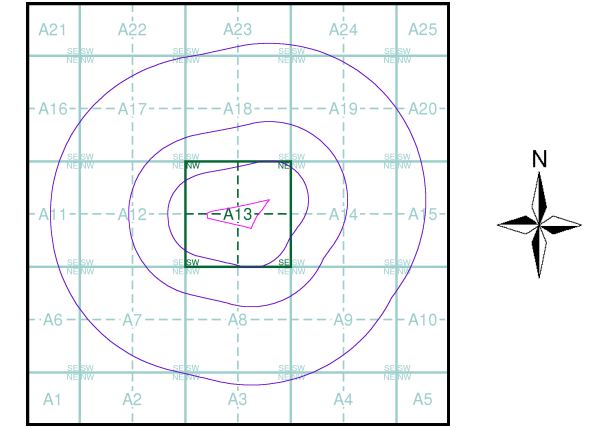
Ordnance Survey Plan Published 1956 - 1959 Source map scale - 1:10,000

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)

TF32NW	TF32NE
1956	1956
1:10,560	1:10,560
TF32SW	TF32SE
1958	1959
1:10,560	1:10,560

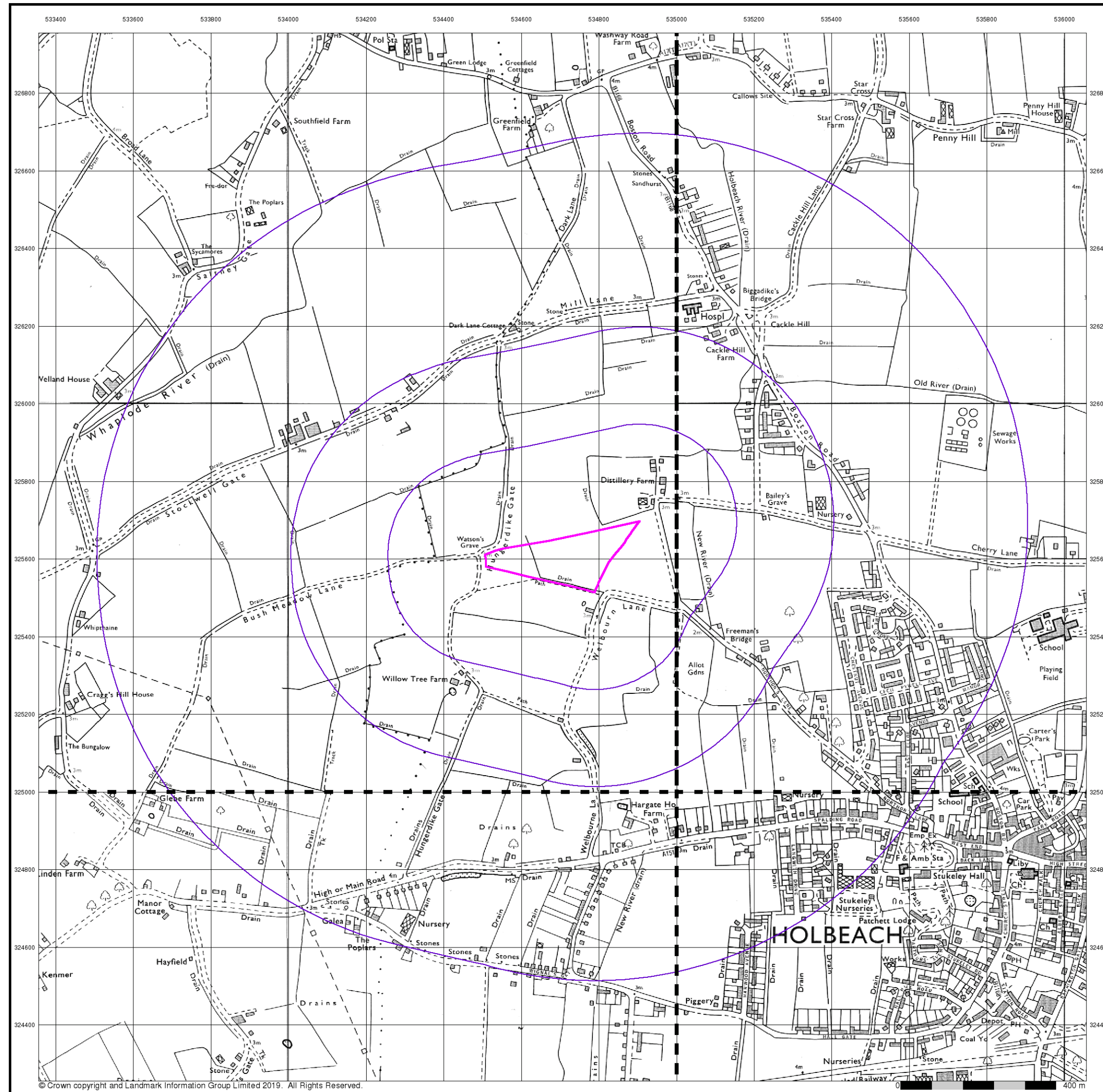
Historical Map - Slice A



Order Details
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
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Site Area (Ha): 3.49
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Ordnance Survey Plan

Published 1970 - 1977

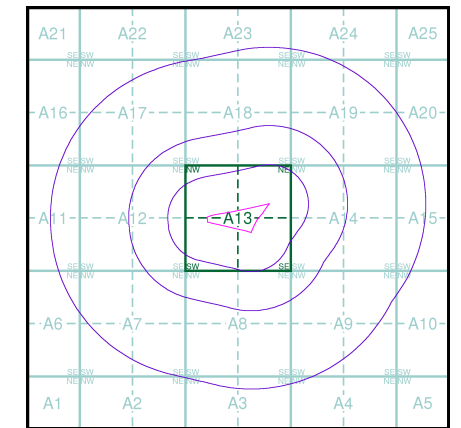
Source map scale - 1:10,000

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)

TF32NW	TF32NE
1977	1977
1:10,000	1:10,000
TF32SW	TF32SE
1971	1970
1:10,000	1:10,000

Historical Map - Slice A



Order Details

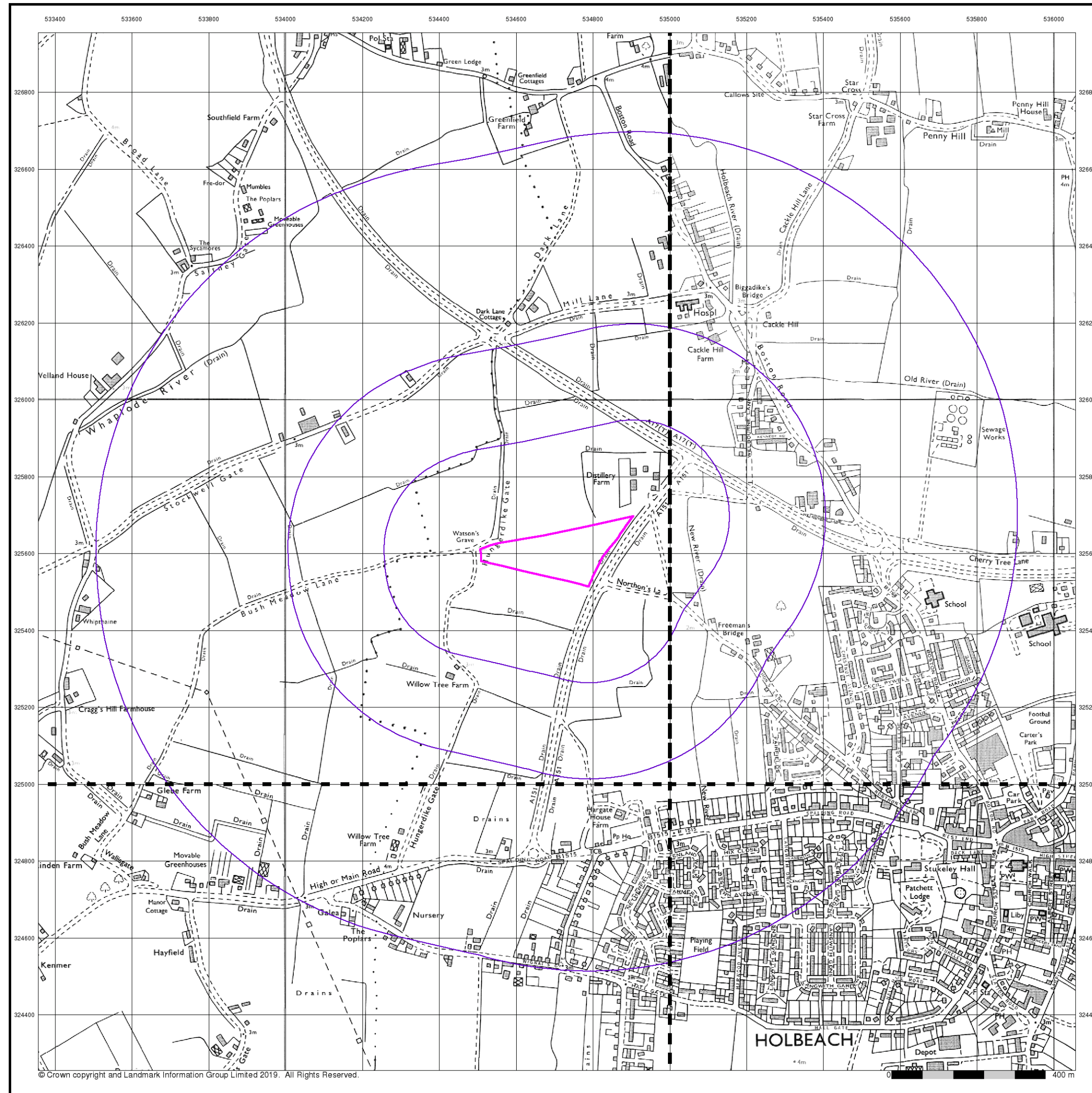
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Customer Ref: 60550563 - Holbeach
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Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1992

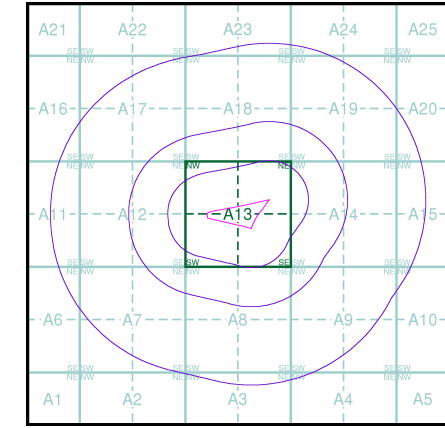
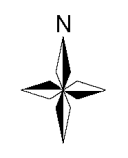
Source map scale - 1:10,000

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)

TF32NW	TF32NE
1992	1992
1:10,000	1:10,000
TF32SW	TF32SE
1992	1992
1:10,000	1:10,000

Historical Map - Slice A



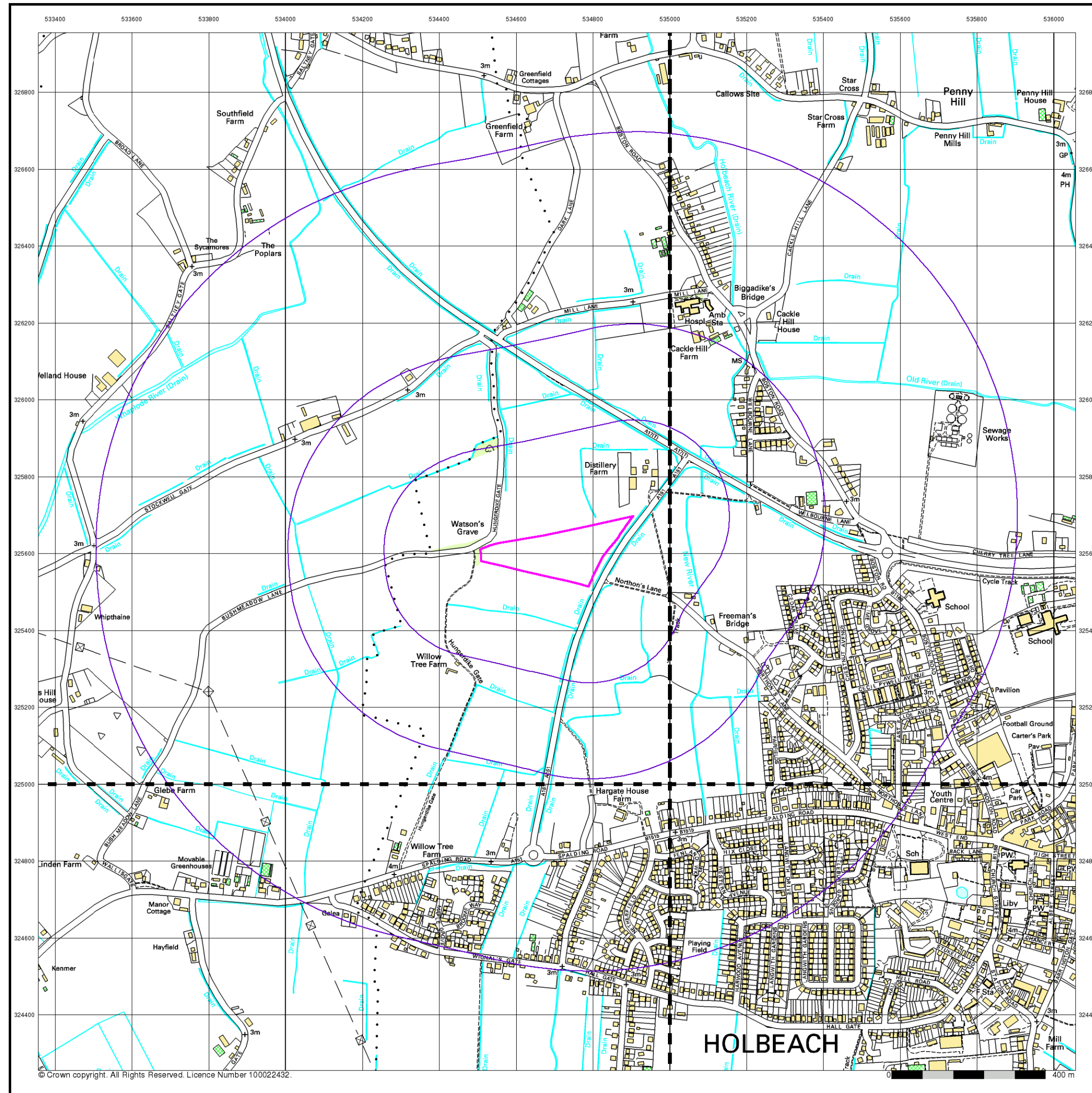
Order Details

Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

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Map Name(s) and Date(s)

TF32NW	TF32NE
2000	2000
1:10,000	1:10,000
TF32SW	TF32SE
2000	2000
1:10,000	1:10,000

Historical Map - Slice A

Order Details

Order Number: 191780895_1_1
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Site Details

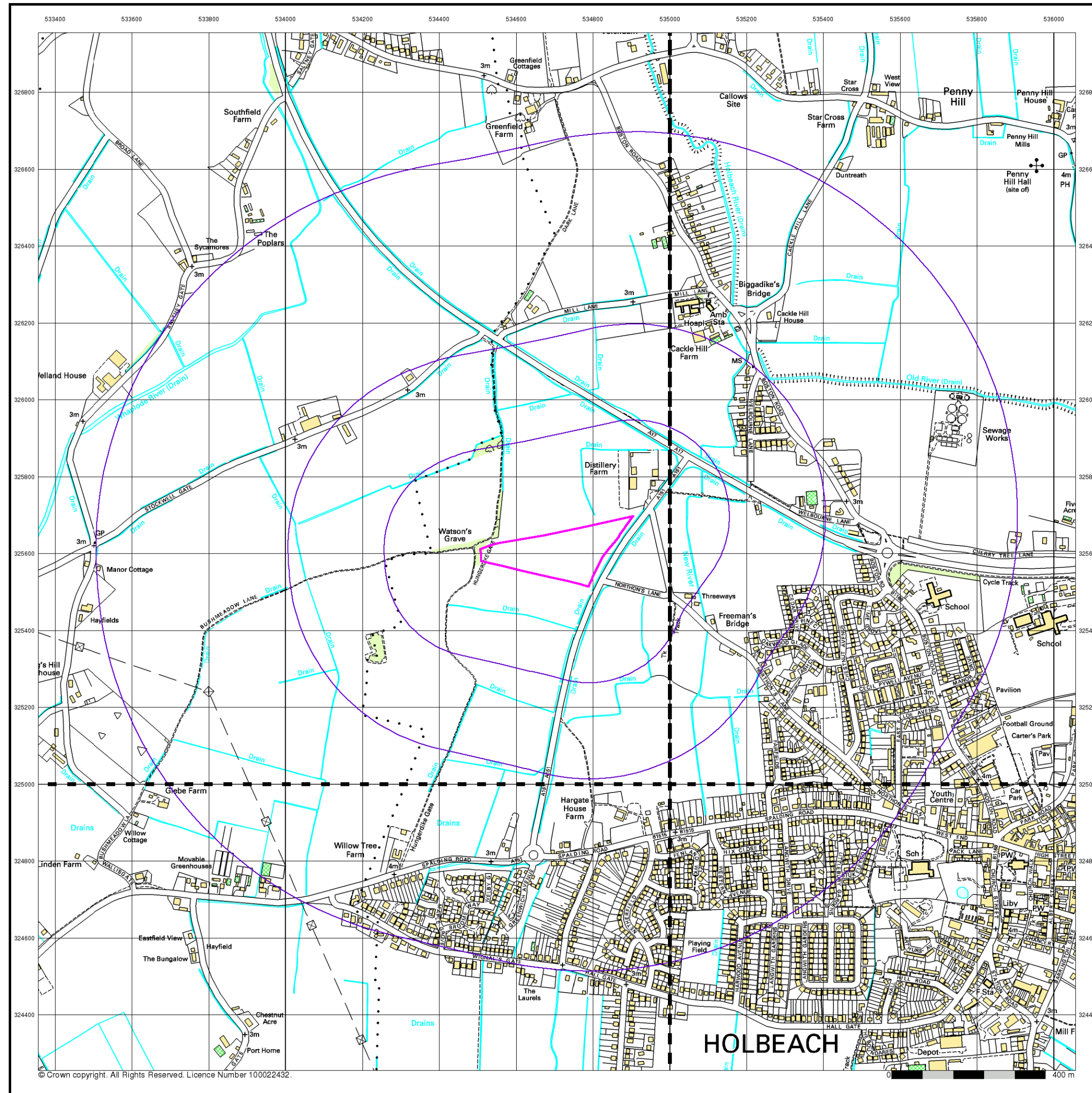
Site at, Holbeach, Lincolnshire

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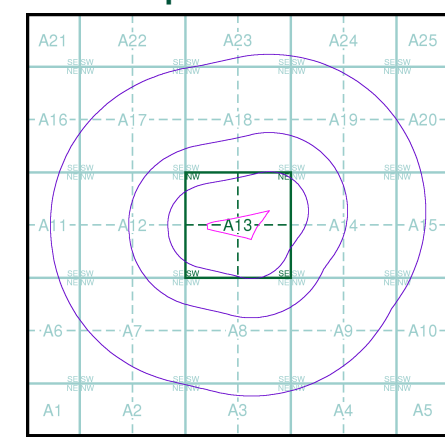
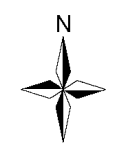
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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Map Name(s) and Date(s)

TF32NW	TF32NE
2006	2006
1:10,000	1:10,000
TF32SW	TF32SE
2006	2006
1:10,000	1:10,000

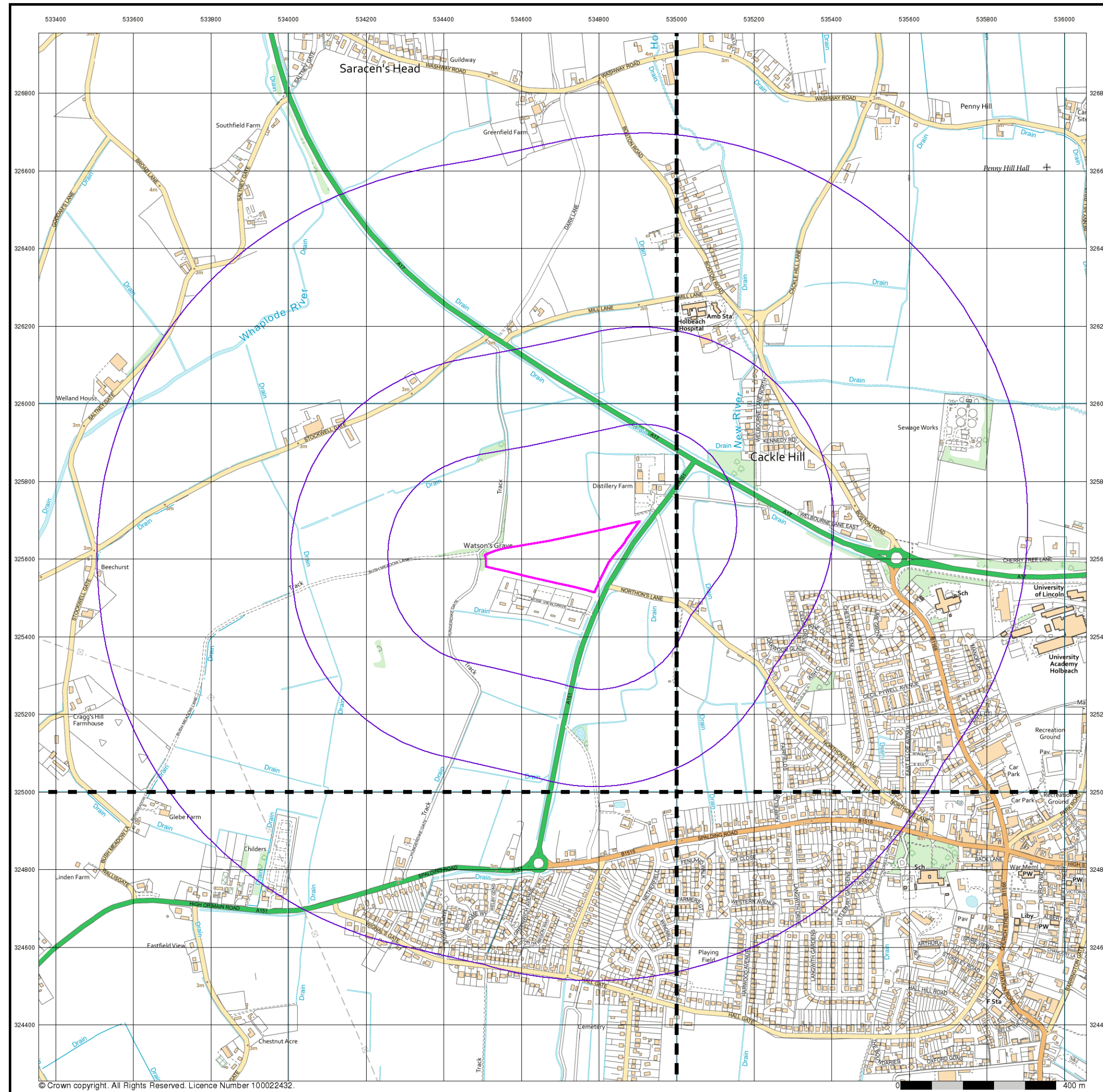
Historical Map - Slice A



Order Details
Order Number: 191780895_1_1
Customer Ref: 60550563 - Holbeach
National Grid Reference: 534710, 325620
Slice: A
Site Area (Ha): 3.49
Search Buffer (m): 1000

Site Details
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VectorMap Local

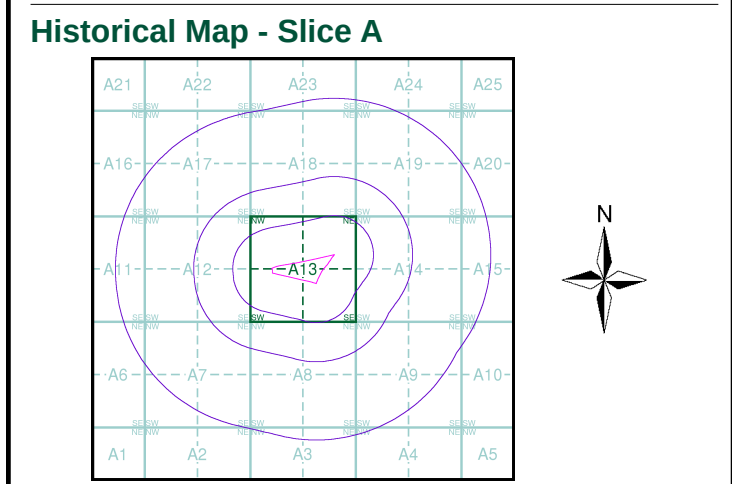
Published 2018

Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TF32NW 2018 Variable	TF32NE 2018 Variable
TF32SW 2018 Variable	TF32SE 2018 Variable



Order Details

Order Number:	191780895_1_1
Customer Ref:	60550563 - Holbeach
National Grid Reference:	534710, 325620
Slice:	A
Site Area (Ha):	3.49
Search Buffer (m):	1000

Site Details

Site at, Holbeach, Lincolnshire

