Section 4



Environmental Risk Assessment

SAR Metals Ltd

3 Manby Road

South Killingholme

Immingham

DN40 3DX

Olive Compliance Ltd
Planet House
Northumbrian Way
Killingworth
NE12 6EH
Company Number:12861220

Issue and Revision Record

Revision	Date	Originator	Description of Change
V1	20/12/2025	Olive Compliance Ltd	Prepared for permit application

Basis of Report

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1.0 Introduction

This report has been produced on the behalf of SAR Metals Ltd in support of a Bespoke Installation Permit Application under The Environmental Permitting (England and Wales) Regulations 2018 (as amended) for their facility at 3 Manby Road, South Killingholme, Immingham, DN40 3DX.

This ERA has been undertaken in accordance with the Environment Agency (EA) *Risk assessments for your environmental permit*[1] (2016) and is a simple assessment of the risks to the environment and human health from accidents, noise and fugitive emissions that may be associated with the proposed operations at the site.

The aim of the assessment is to identify any significant risks and demonstrate that the risk of pollution or harm will be acceptable by taking the appropriate measures to manage these risks.

Desk-based research of the local environment, ecology, geology, hydrogeology and surface waters has been carried out in order to establish the potential for migration of contamination onto or away from the Site, and to assess the surface water and groundwater sensitivity of the Site area.

The above guidance requires all receptors that are near the site and could reasonably be affected by the proposed activities to be identified and considered as part of the ERA.

2.0 Site Setting and Receptors

2.1 Site Setting

The site is located at 3 Manby Road, South Killingholme, Immingham, DN40 3DX.

The site is principally bounded as detailed in Table 1 below.

Table 1 – Site Setting

Direction	Use
North	Road Link
South	Industrial
East	Road Link
West	Rural (Woodland)

[1] https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit

The facility is located on land located at SAR Metals Ltd, 3 Manby Road, South Killingholme, Immingham, DN40 3DX.

The site is made up of a large industrial factory building to be split into separate waste activities by activity sector with one additional external building located within the footprint of the site.

Activities carried out on site include:

- sorting, separation and bulking up of ferrous and non-ferrous metals by hand or plant
- treatment of WEEE (ATF)
- bulking and segregation of waste batteries (no treatment),
- recovery and treatment of catalytic converters

All treatment processes facilitate bulking and recovery of waste enable efficient onward transport, and to generate the metal grades required for further recovery or reuse within industrial processes (manufacturing) or for export.

The site has previously been used as a manufacturing and engineering facility, with SAR rebuilding and updating buildings to ensure integrity, installing critical infrastructure such as concrete storage bays, CCTV, fire detection improving to ensure environmental protection.

Image 1 – Site Setting SAR Metals Ltd



2.2 Proposed Activities

A description of all activities proposed is detailed below.

Building 1

Non-Waste Activity - Data Wiping Services

SAR propose that this building is to be used for the further development and growth of their Data Wiping services. Using software-based method that removes data from a storage device by overwriting it to allow the reuse of the equipment, which is important for protecting sensitive information when devices are reused or resold.

SAR will be contracted to carry this service out for the commercial, public sector and the public.

The wiping software scans the storage device (HDD, SSD, USB, etc.). It overwrites existing data with random characters or zeros. Once finished, the original data cannot be recovered.

Data wiping (also called data erasure) are methods used to make stored data permanently inaccessible so it cannot be recovered.

Electrical items will be delivered to site for this service, with the process completed, recorded and returned to the customer.

Waste Activity – Data Wiping Services and Recovery

SAR will also purchase WEEE wastes from the commercial or public sector for use or and resale. Pallets or containers of electrical items will be purchased for SAR to assess content and suitability for recovery or resale.

In the event electrical items are not in a suitable condition for repair or reuse, SAR will then classify these items as a waste, carrying out any data wiping required to these wastes, prior to onward recycling in Building 4. These wastes are stored separately from non-waste electricals, awaiting data wiping, and recovery.

Building 2 – Catalytic Convertor Recycling

SAR will accept both Hazardous and Non-Hazardous Catalytic Convertors for recycling purposes.

Pre-acceptance procedures are in place to ensure that SAR are aware of:

• the source and nature of the waste, including: • the types of waste present (for example, chemistry, classification

• the condition of the waste

• how the waste is packaged (for example, including type of container, packaging material, measures taken to prevent physical damage

• any hazardous properties (e.g. Refractory ceramic Fibres RCF)

• potential risks to process safety, occupational safety and the environment (for example, from the presence of hazardous substances that could be dispersed during treatment)

• knowledge about the waste producer and previous waste holder

The below information is to be provided when SAR receive a customer query and before the waste arrives at the site:

• details of the waste producer including organisation name, address and contact details

• where the waste is coming from

• full description of the waste and its composition, including type

• the List of Waste codes (European Waste Classification (EWC) code)

• any hazardous properties and presence of any regulated chemicals, for example, (e.g. Refractory ceramic Fibres RCF)

• the type of containers and packaging used for the waste

• where available, information regarding the age and condition of the waste. I don't think it's applicable to cats

At the acceptance stage, in addition to validation procedures, trained site operatives, will check all waste and to make sure they are fit for purpose and meet SAR acceptance criteria and quality

Any non-conforming waste will be quarantined to allow the site deal with them immediately and appropriately. Records are maintained of all rejections and non-conformances as part of the acceptance procedures and management system.

Building 2 allows the inspection all incoming Catalytic Convertors direct to the site. Within the buildings there is a quarantine area to keep Nonconforming waste away from other wastes prior to appropriate recovery and disposal.

Once inspected and approved for further processing, the wastes will then be treated in accordance with the SAR treatment process.

The abatement of emissions is controlled by the LEV system (SORTUS) detailed below with manual appended to the OT documents. At this stage the system and actual final specification of the system is still to be agreed based on installation. All operational procedures/documents will be updated once installation is completed.

There are no point source emissions to land, air, water or sewer from this process.

LEV System description

The area of application is the dry filtration of mixed metal, refractory ceramic fibres (RCF) and ceramic scrap dust in aspiration systems for recycle processing, transport and storage.

Central aspiration system is used for collecting mixed metal and ceramic scrap dust from several aspiration points.

The aspiration system is divided into two separate operations. Only one operation can be online at the time.

First operation cleans ground floor in each working room separately. It is important to know that only one room at a time can be cleaned by this method. If more than one working room is online, the cleaning operation becomes more inefficient, because of the pressure drop occurs in the system. The first operation line hoods are installed between "H" type profile beams and the ground below is covered by welded mild steel sheet metal to get the most efficiency of cleaning. All hoods are connected parallel on each beam. The ducts are made from galvanised Nordfab steel.

The second operation consists of two aspiration walls inside each working room; two hoods above scrap collecting barrels in each section; aspiration wall and hoods near shredder and aspiration flexible hoses near mixer application. Flexible hoses are connected to aspiration walls and hoods. The second operation is focused for collecting mixed metal and ceramic dust from those aspiration walls and hoods via flexible hoses and galvanised ducts. Each section has manual air dampers for regulating work regime.

All line operations are connected to dust collector and fan. Dust collector is generally used for primary filtration for mixed metal and ceramic dust particles. Above the dust collector there are two heavy-duty air auto dampers for controlling work operations. The dust collector consists of filter cartridges, tanks and collecting barrels. After filtration, the primary cleaned air goes through a duct process and fan and ends at HEPA filter boxes for secondary filtration, which collects all remnants of primary filtration dust, including *RCF*. There is total 4 boxes of HEPA filters that contains 2 pcs. per box HEPA cartridges. The cleaned air flow is regulated through air dampers which are installed just before HEPA filters. HEPA filtering is used when the cleaned air is needed to return to working rooms. All operations are controlled by control panel which is placed near dust collector.

Example Schematic below

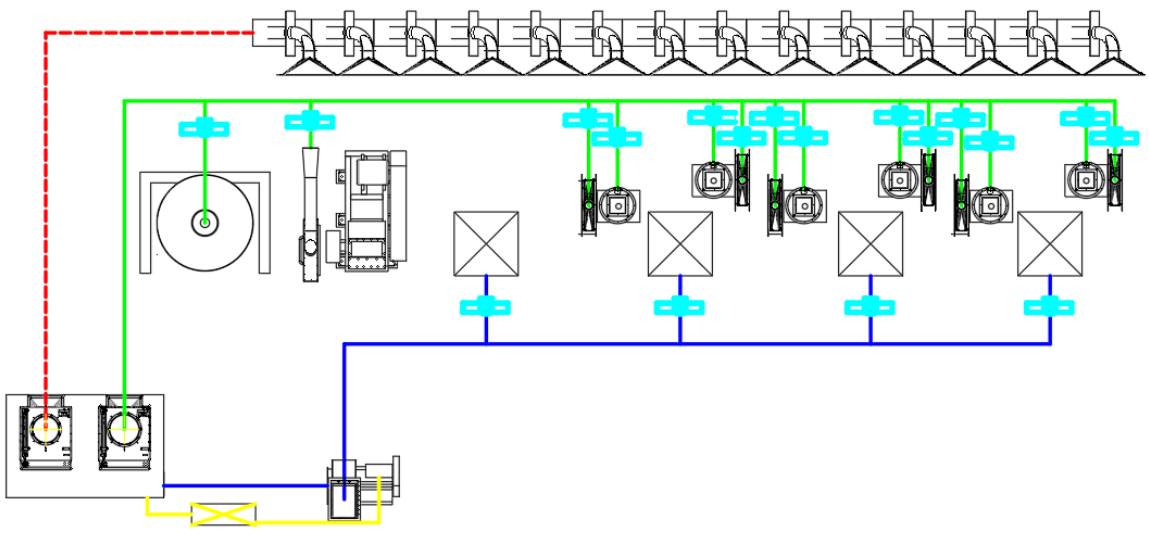


Figure 1.1 Technological scheme: 1) Ground floor cleaning line; 2) Room, shredder and mixer aspiration line; 3) Filtrated air return line; 4) Control panel; 5) Manual damper; 6) HEPA filter box 7) Dust collector; 8) Fan

Example of SAR system (Image 2)

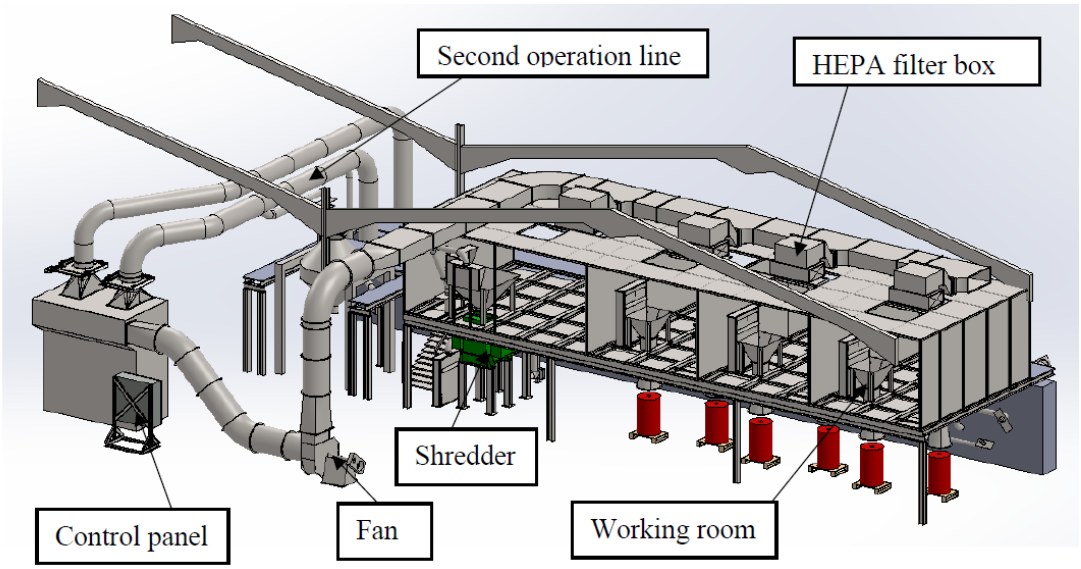


Figure 1.2 3D model of S.A.R. Metals Ltd. project 1

From the process, non-ferrous metal from the waste is sheared using alligator shears, to allow access to the cat casting. Metals are stored in a skip awaiting bulking externally in a secure container, for further recovery off site.

Ceramic Powder (may contain RCF) is extracted and stored in a bulk bag, secured with tracking information detailing the below

- Date of production
- Contents
- Batch data
- Site details

These are stored on pallets in the storage area of Building 2 awaiting export off site.

Onsite waste tracking systems monitor all waste streams including catalytic convertors, ensuring that they are transferred once a viable load has been established and managed on a first-in first-out basis to prevent the accumulation of aged stock.

All activities are conducted in a weatherproof building, which provide a dry and cool environment, prevents exposure to extreme temperatures and sources of heat (including direct sunlight) and away from other relevant hazards such as vehicle movements, hot works.

All waste is stored and treated within an enclosed building, with an impermeable surface and sealed drainage. There are no drainage features in this building the escape of any liquids or pollutants.

Building 3 – Battery receipt and storage

SAR will receive separate collections of waste batteries (including collections of mixed batteries) but not to other mixed wastes that may contain waste batteries (for example, mixed municipal wastes) direct form the customer post initial contract and waste assessment pre acceptance.

SAR will also produce collections of waste batteries from on-site activities (for example, from the receipt of WEEE requiring treatment) or bulk electrical items which are not able to be reused or recovered so will be recycled into separate components.

The main types of waste battery that may be received at site may include:

• alkaline (primary battery)

• zinc-carbon (primary battery)

• nickel-cadmium (Ni-Cd) (secondary battery)

• nickel-metal hydride (NiMH) (secondary battery)

• lead acid (secondary battery)

• Li-ion (secondary battery)

• lithium metal (primary battery)

• silver oxide (primary battery)

• mercury (primary battery)

Lead acid, Ni-Cd and mercury batteries are classified as hazardous wastes under the List of Waste (LoW) or European Waste Catalogue (EWC) codes.

Unsorted collections of mixed batteries from households and businesses are also classified as hazardous wastes.

Lithium-ion (Li-ion) batteries are secondary batteries, which are rechargeable and typically used in electric vehicles (EVs), battery energy storage systems (BESS), phones, computers and other electronic equipment. Lithium metal batteries are primary batteries, which are not rechargeable.

No treatment is undertaken to batteries; they are bulked for onward recovery in the UK or export only.

Pre-acceptance procedures are in place to ensure that SAR are aware of:

• the source and nature of the waste, including: • the types of waste battery present (for example, chemistry, classification [for example, portable, automotive, industrial], or size)

• the condition of the batteries and, if known, information regarding their age and residual charge (for example, for high voltage electric vehicle batteries)

• how the batteries are, or will be, packaged (for example, including type of container, packaging material, measures taken to prevent physical damage, electrical shorting, exposure to liquids and high temperatures)

• any hazardous properties and persistent organic pollutant (POPs) content

• potential risks to process safety, occupational safety and the environment (for example, from the presence of hazardous substances that could be dispersed during treatment)

• knowledge about the waste producer and previous waste holder

The below information is to be provided when SAR receive a customer query and before the waste arrives at the site:

• details of the waste producer including organisation name, address and contact details

• where the waste is coming from

• full description of the waste and its composition, including type and chemistry of waste batteries and their quantity if known

• the List of Waste codes (European Waste Classification (EWC) code)

• any hazardous properties and presence of any regulated chemicals, for example, POPs

• the type of containers and packaging used for the waste

• where available, information regarding the age and condition of the waste and, where relevant, potential for self-heating, self-reactivity or reactivity to moisture or air

At the acceptance stage, in addition to validation procedures, trained site operatives, will check all waste containers and packages to make sure they are fit for purpose, including, where appropriate, that they are:

• in sound condition

• undamaged

• not corroded

• suitable for the contents (for example, its mass and other physical or chemical properties)

• with well-fitting lids, where relevant

• with caps, valves and bungs in place and secure, where relevant

Any non-conforming battery wastes or containers will be quarantined to allow the site deal with them immediately and appropriately. Records are maintained of all rejections and non-conformances as part of the acceptance procedures and management system.

Building 3 allows the grading and inspection all incoming batteries direct to the site, or from the activities in Building 1 (Data Wiping) or (Building 4) WEEE treatment. Incompatible wastes will be kept apart. Both

Buildings 1,3 and 4 will have a quarantine area to keep damaged batteries away from other batteries or wastes prior to appropriate recovery and disposal.

Building 3 allows for the clear segregation and storage of batteries of different chemistries separately once sorted from mixed loads (for example, in separate containers), segregating batteries that have been tested or discharged from those awaiting testing or discharging.

Building 3 will have internal bays made up of concrete legio type brick (60cm (w)) to allow for clear segregation of all battery types awaiting recovery off site. Each bay will have signage to indicate the battery type for clear segregation and safety purposes depending on battery types and contracts.

Image 3 - Example of blocks used for bays



Batteries are stored in primary containers within each bay, comprising of acid proof containment (example shown below).

Image 4 – Battery Storage examples





Batteries will not be stored for longer than the below EA proposed timescales.

Waste type	Maximum storage duration
Alkaline and zinc carbon batteries	12 months

Lead acid batteries	6 months
Other batteries (including NiCd, NiMH, lithium and mixed or unsorted batteries)	6 months
Other wastes (including battery components or fractions, scrap or off-spec products from manufacturers, electrolytes)	6 months

Onsite waste tracking systems monitor all waste streams including batteries, ensuring that they are transferred once a viable load has been established and managed on a first-in first-out basis to prevent the accumulation of aged stock.

All batteries are stored in a well-ventilated, weatherproof building, which provide a dry and cool environment, prevents exposure to extreme temperatures and sources of heat (including direct sunlight) and away from other relevant hazards such as vehicle movements, hot works.

All batteries are stored on level ground with an impermeable surface and sealed drainage. Building 3 benefits from concrete surfacing, bunded boundary walls (up to 20cm) with batteries stored in concrete sealed bays and in containers. There are no drainage features in this building the escape of any liquids or pollutants.

Lead acid batteries will be stored upright with terminals capped or insulated. Other batteries should have terminals and any wired connections insulated where practicable, particularly lithium batteries and larger batteries and battery packs from WEEE and EVs, and will be packed in a way that prevents shorting or damage, for example, using a suitable packing material, such as vermiculite.

Upon the bulking of sufficient battery wastes for export, these are transferred to the bulk battery storage container located externally of Building 3 (example below) packaged and secure.

The container is sealed to prevent the escape of any leaks or emissions and sited on concrete surfacing away from any surface water drainage features or unmade surfaces.

SAR will receive separate collections of WEEE wastes direct from the customer post initial contract and waste assessment pre acceptance procedures.

SAR procedures follow a risk-based approach, considering:

- the source and nature of the waste
- any hazardous properties and persistent organic pollutant (POPs) content
- potential risks to process safety, occupational safety and the environment (for example, from the presence of hazardous substances that could be dispersed during treatment)
- knowledge about the previous waste holder
- the type of containment used for the waste

SAR will get the following information in writing when they receive a customer query:

- details of the waste producer (who you are receiving the waste from) including organisation name, address and contact details
- where the waste is coming from
- full description of the waste including the quantity
- the List of Waste code (European Waste Classification, EWC, code)
- any hazardous properties or presence of any regulated chemicals, for example, POPs
- if WEEE identified as POPs waste in the guidance on how to classify WEEE is described as not being a POPs waste, SAR will request evidence of the assessment demonstrating this
- with reference to Annex VII of the WEEE Directive, details of any treatment already undertaken

Pre-acceptance information is obtained through discussion, information provided by producer/holder or by contacting or visiting the waste producer.

Waste accepted into Building 4 is only for recovery and recycling purposes only.

Waste Acceptance

At the acceptance stage, trained site operatives, will check all wastes to ensure they meet the contract/customer agreement.

Building 4 allows for the initial grading and inspection all incoming WEEE direct to the site. Staff will use the SAR Waste Acceptance to verify each delivery/load with a breakdown of waste received, weight and quality.

Any non-conforming wastes will be quarantined to allow the site deal with them immediately and appropriately. Records are maintained of all rejections and non-conformances as part of the acceptance procedures and management system.

Building 4 will have a quarantine area to keep damaged batteries away mixed with WEEE waste streams from other batteries or wastes prior to appropriate recovery and disposal.

A quarantine area is in place for other WEEE waste not conforming with the agreed pre-acceptance discussions/quality.

All WEEE is inspected upon acceptance to assess condition, type, and potential for reuse or recycling. Any WEEE for re use or repair, will be separated then sorted by commercial contract/viability for either 3rd party specialists or on site repair or directly sold by SAR.

Dismantling will be a manual process, using hand tools only. Waste materials will be sorted by type and/or grade of metal/WEEE/plastic.

WEEE waste types accepted

Televisions, computer monitors and other display devices – **accepted for recovery**

WEEE industrial and household items and appliances with components such as screens, circuit boards, such as IT equipment, mobiles, laptops - **accepted for recovery**

Batteries - **accepted for recovery – removed from WEEE and bulked in Building 3 – no treatment**

Cable - **accepted for recovery**

Circuit boards - **accepted for recovery**

Fridges, freezers, chillers and air-conditioning units – not generally accepted (if accepted in error mixed in loads these will be quarantined)

Large domestic appliances (LDA): white goods (washing machines, tumble dryers, dishwashers and cookers) not generally accepted (if accepted in error mixed in loads these will be quarantined)

Lightbulbs and lamps - not accepted (if accepted in error mixed in loads these will be quarantined)

All WEEE that may contain or containing POP's components as defined by Regulation (EU) 2019/1021 on persistent organic pollutants, is managed in full compliance with the regulation. POPs-containing WEEE and material fractions are segregated from non-hazardous WEEE and non-POPs materials and are not recycled.

Where POPs are present, the waste is directed to appropriately permitted downstream facilities for treatment that ensures the POP content is destroyed or irreversibly transformed, typically through incineration or equivalent thermal treatment.

Downstream contractors are subject to due diligence checks to confirm regulatory compliance and appropriate treatment methods.

Equipment

Manual tools

- Screwdrivers
- Pliers and needle-nose pliers
- Wire cutters
- Adjustable wrench
- Utility knife
- Small hammer
- Hex keys
- Hand shear
- Cable stripper

Treatment Activities

1. Remove outer casing.
2. Extract internal modules (circuit boards, motors, fans).
3. Separate wiring harnesses.

4. Remove cables
5. Remove mechanical parts (metal frames, screws)

Outputs

Any non-ferrous metal will be removed for onward recovery off site to an appropriate permitted/exempt facility.

Clean plastic (eg: recasing) will be removed for onward recovery off site to an appropriate permitted/exempt facility.

Cable will be removed for onward recovery off sit to an appropriate permitted/exempt facility.

WEEE waste is then packaged securely under contract with customers, for export as an approved authorised treatment facility (AATF).

All waste for export is secure with tracking information detailing the below

- Date of production
- Contents
- Batch data
- Site details

All waste is stored and treated within an enclosed building, with an impermeable surface and sealed drainage. There are no emissions to air from these activities. There are no drainage features in this building to allow the escape of any liquids or pollutants to land or water.

Building 5

This building has been identified as a contingency storage area for WEEE or non-waste materials.

In the future the facility wishes to shred residual WEEE waste that cannot be further recycled manually.

The shredding of WEEE waste is mainly to make recycling and material recovery easier and more efficient.

Shredding will break larger items into smaller pieces, so they are easier to:

- Transport
- Store
- Process in recycling plants

WEEE waste can contain valuable materials such as:

- Copper
- Aluminium
- Steel
- Gold
- Plastics

After shredding, automated systems (magnets, eddy current separators, density separation, optical sorters) can separate these materials more easily off site or should SAR implement further sorting proposed as part of their further business development plans.

Shredding will improve Recycling Efficiency creating a mixed stream of small fragments that can go through mechanical sorting processes. This allows the recovery of higher percentages of reusable materials.

WEEE containing hazardous substances will not be shredded. Shredding would be carried out after manual treatment, such as the removal of batteries.

POPS wastes are screened out at the acceptance stages, so will never be recycled or shredded on site.

Shredding will support the data wiping and destruction side of the business for items such as

- Hard drives
- Servers
- Computers

No plans are in place to conduct this activity initially, as there is significant work to prepare the facility and move operations from their current facility.

The below are the proposals and controls in place in relation to the proposed shredding activity

Shredding throughput at this time is estimated at 4-5tonnes per day feeding into a dedicated enclosed bay, with metals segregated for onward recovery and shredded material bagged for onward recovery.

Shredder

Proposed is a 4 shaft 30Kwh shredder, electric powered.

Image 4 -Example shredder



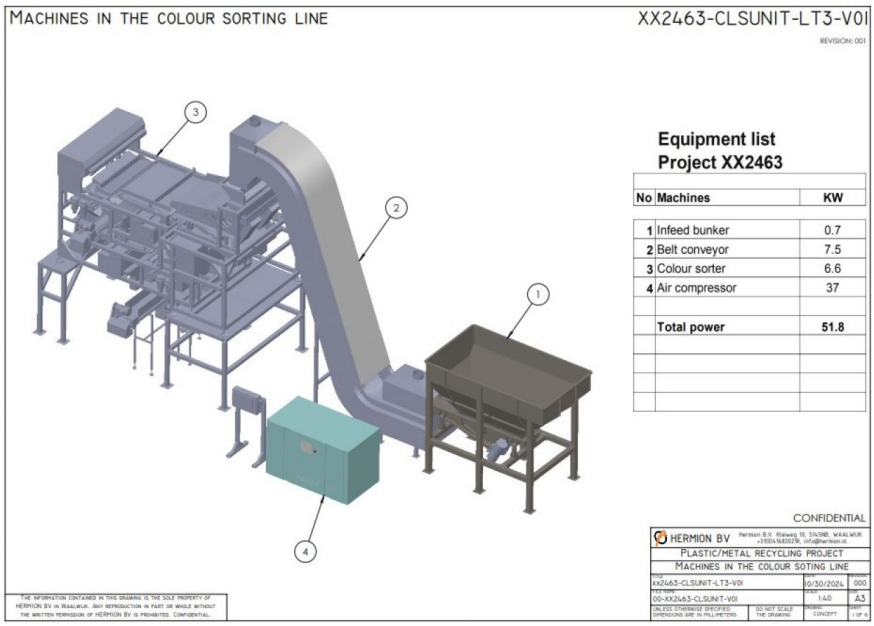
Optical sorter process

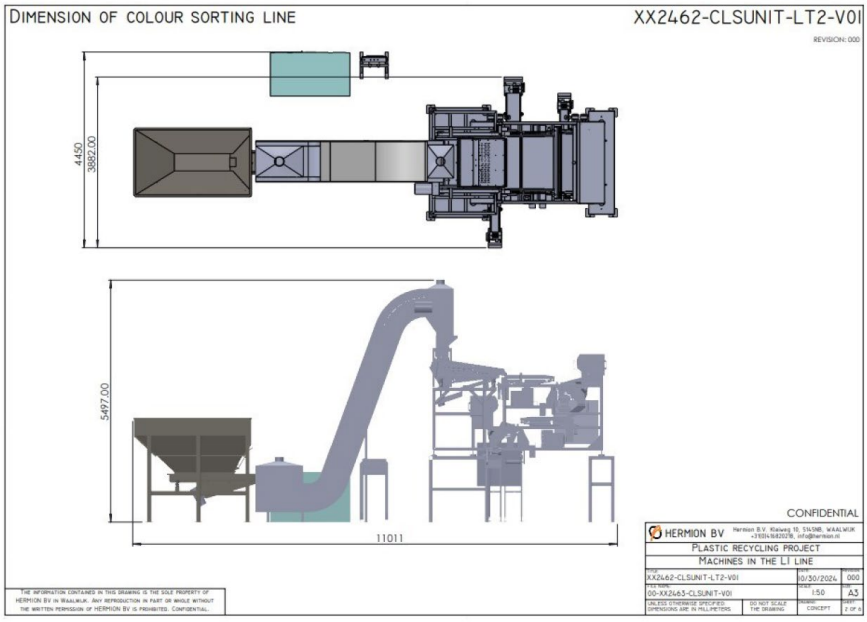
Technical capacity plant Approx. 500-2000 kg/h depending on the infeed material and size.

- Electrical power supply - 52 kw inch small E-cabinet PLC controlled

Local exhaust ventilation (LEV): workplace fume and dust extraction will be installed to reduce any emission from the process (specification and model still to be agreed)

Image 5 – Optical Sorting System





All waste is stored within the enclosed building, with an impermeable surface and sealed drainage. There are no emissions to air from these activities. There are no drainage features in this building to allow the escape of any liquids or pollutants to land or water.

Dust extraction systems will be fitted to the plant to reduce any impact within the building. Noise emissions will be controlled by the enclosed activity and low throughput.

We request a that a pre-condition is in place within the permit to allow the additional details to site equipment and final emissions controls to be included within the permit with agreed timescales for implementation.

External Storage

Clean and uncontaminated metals only may be accepted and stored externally in stockpiles (plate and girder/aluminium (no cutting fluids/swarf).

Externally a shipping container is in place to store batteries awaiting export.

3 containers are in place externally to store waste created on site and clean metals from the recycling processes on site (ferrous metals) or waste created on site (wood/packaging).

2.2.1 Infrastructure

The site is made up of one large industrial factory buildings to be split into separate waste activities by activity sector with one additional external building located within the footprint of the site.

The site has previously been used as a manufacturing and engineering facility, with SAR rebuilding and updating buildings to ensure integrity, installing critical infrastructure such as concrete storage bays, CCTV, fire detection improving to ensure environmental protection.

Drainage

A full drainage survey was completed in November 2025. The full drainage plan is included within this document.

The site has limited external drainage, with drainage systems in place for clean and uncontaminated rainwater from building roofs and car parking areas. This water enters the surface water drainage system and discharges externally. Foul water from welfare systems is also in place.

All surface water and foul drainage features are shown, with only two open gulleys located on the northern perimeter of the facility. These gulleys are located over 60m of any external waste storage, with all treatment activities undertaken internally with sealed site surfaces and bunded buildings to prevent any escape of liquids/pollutants. As each building is fully sealed and grouted to prevent the escape of any water or pollutants there is no risk proposed to the current drainage system.

Plans by SAR management, is to install an oil interceptor with a penstock valve is planned as the site develops in 2026/2027 to prevent the risk to site water systems through vehicle movements and leaks.

Pre application advice is currently with Anglian Water in relation to a surface water discharge consent (Jan 2026).

Noise

The EA Noise Impact Assessment Tool has been used to screen out noise from the proposed activities which has reported that an NIA and NMP is not required (A copy of the screening tool is attached).

All waste is treated within an enclosed buildings which benefit from impermeable surfaces and sealed drainage enclosing operations and the risk of any auditory impact form treatment activities.

A Noise Impact Assessment was also screed out at the Pre Application stage in 2024 based on proposed activities.

There are no waste operations carried out during unsociable hours that could impact the local environ or receptors.

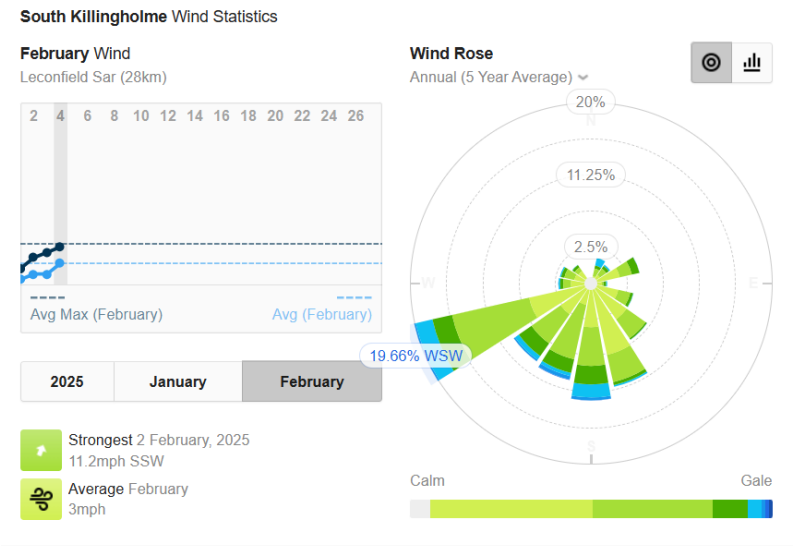
The site operates according to the hours stated below:

- Monday to Friday 07:00 – 17:00 hrs
- Saturday 07:00 – 12:00 hrs
- Sunday/Bank/Public Holiday Closed
-

2.2.2 Prevailing Wind Direction

Using the Willy Weather application[2], meteorological forecast information is available for over 45000 British locations. The available data includes Met Office weather radar, satellite images and synoptic charts. The application also provides current conditions and warnings.

Image 6 – Wind Direction (South Killingholme)



Upon review of this data the prevailing wind directions are predominately west south westerly (WSW) in respect of the site.

2.2.3 Transport Infrastructure

The site is accessed via the A1173 directly 5m from the entrance of the site.

[2] Weather Forecast - United Kingdom - WillyWeather accessed February 2025

2.2.4 Public Footpaths, Recreational areas and Areas for Public Use (Open Space)

There are no registered parks or gardens are located within 1km of the site.

Checks made on the https://footpathmap.co.uk/ application identifies a footpath only located within 700m of the site (denoted by a redline boundary on the below plan).

Image 7 - Public Footpaths within 1km



2.2.5 Geology, Hydrogeology & Hydrology

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Superficial Deposit

Till, Devensian - Diamicton. Sedimentary superficial deposit formed between 116 and 11.8 thousand years ago during the Quaternary period.

Bedrock

Burnham Chalk Formation - Chalk. Sedimentary bedrock formed between 93.9 and 83.6 million years ago during the Cretaceous period.

Summary Classification: Secondary superficial aquifer

High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer

Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

2.2.6 Surface Water

There is one identified active surface water abstraction recorded within 2 km of the site.

The site is not located within a Nitrate Vulnerable Zone (NVZ)

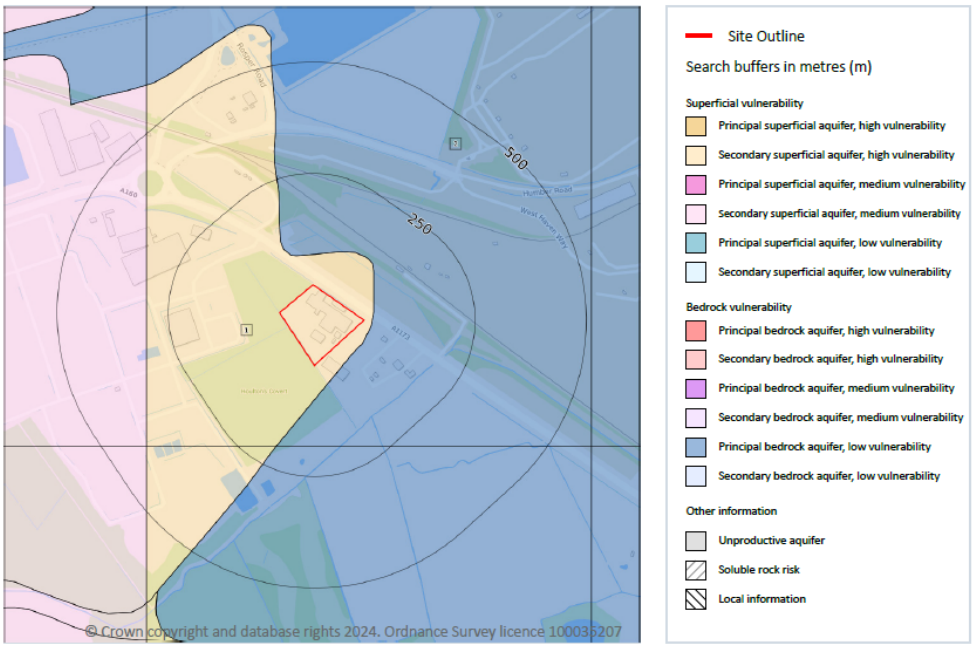
2.2.7 Ground Water

Groundwater Vulnerability Map (England) - Medium – High

High: areas that can easily transmit pollution to groundwater. They are characterised by high-leaching soils and the absence of low-permeability superficial deposits.

Medium: areas that offer some groundwater protection. Intermediate between high and low vulnerability.

Image 8 – Groundwater Vulnerability



2.2.8 Source Protection Zones

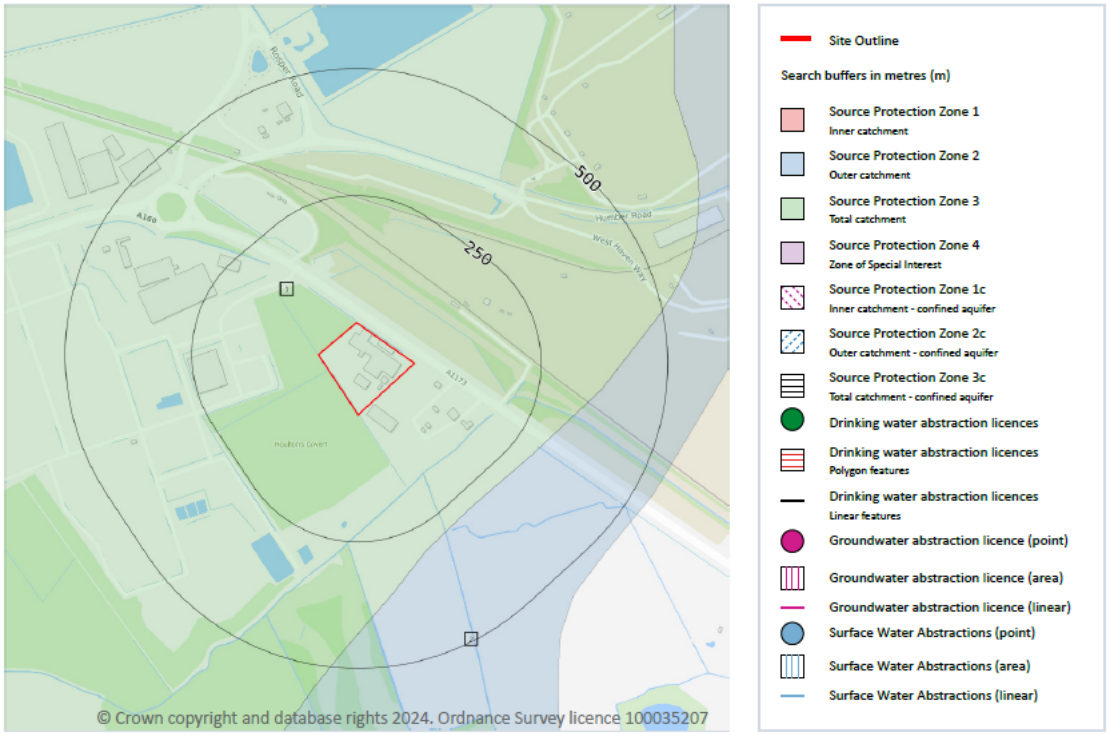
Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

The site is located within a Source Protection Zone (merged (England)) – 3

EA guidance states that a Source Protection Zone 3 is classed the area around a supply source within which all the groundwater ends up at the abstraction point. SPZ3s cover the total catchment area of any groundwater source, regardless of travel time but is still protected but classed as a lower risk.

The risk to pollution in Groundwater Source Protection Zone (GPZ) 3 is assessed based on the proximity of potential pollution sources to the groundwater source. In GPZ 3, the risk is considered to be lower compare d to higher risk zones like SPZ 1 and SPZ 2.

Image 9 – Source Protection Zones designation



2.2.9 Shrink Swell

The maximum shrink swell hazard rating identified on the application site is low.

2.2.10 Landslides

The maximum landslide hazard rating identified on the application site is very low.

2.2.11 Soluble Rocks

The maximum soluble rock hazard rating identified on the application site is negligible.

2.2.12 Collapsible Rocks

The maximum collapsible rocks hazard rating identified on the application site is negligible.

2.2.13 Running Sands

The maximum running sand hazard rating identified on the application site is very low.

2.2.14 Hydrogeology

The Environment Agency classifies the superficial deposits underlying the site as a Secondary (undifferentiated) Aquifer and the bedrock geology as a Secondary 'B' Aquifer.

2.2.15 Discharge Consents

There are no Red List Discharge Consents located within a 500m search radius of the Site.

There are 13 Licensed Discharge Consents within 500 m of the site outlined within the Groundsure Report.

2.2.16 Flood Risk and Flood Risk Zone

According to the Flood Map (Your long term flood risk assessment - Check your long term flood risk - GOV.UK (check-long-term-flood-risk.service.gov.uk) accessed Dec2025, the site has a very low risk of flooding from Rivers and Seas and surface waters.

Flooding from groundwater and reservoirs is also a classed as a very low risk.

Image 10 – EA Flood Risk Information Surface Water

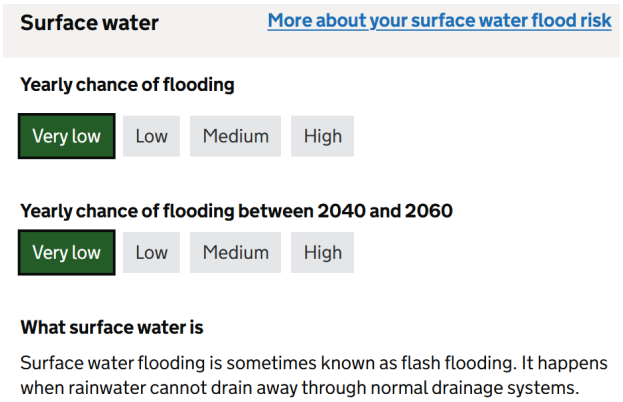


Image 11 – EA Flood Risk Information Rivers and Seas

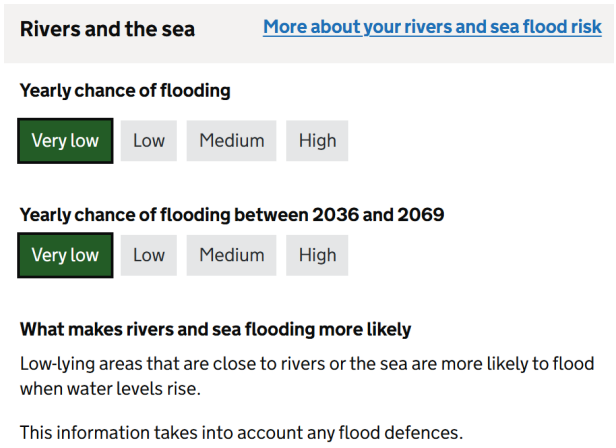


Image 12 – EA Flood Risk Information Groundwater

Groundwater More about your groundwater flood risk

We use groundwater flood alert areas to check the risk of flooding from groundwater.

This location is outside of a groundwater flood alert area.

▶ What this means

What groundwater is

Groundwater is the water that is usually held in rocks and soil underground.

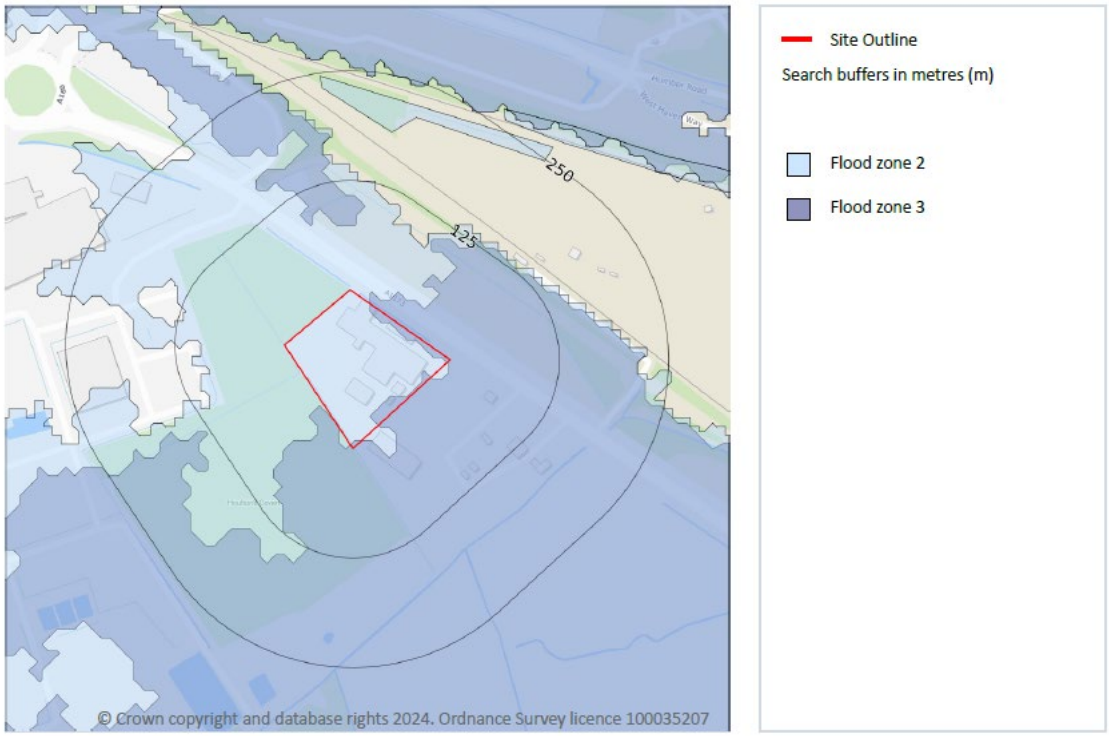
Groundwater flooding happens when this water rises and flows above the surface.

Flooding from rivers is more likely when groundwater levels are high.

Flood Risk Zones

The site is classed as being in a Flood Risk Zone 2[3].

Image 13 – Flood Risk Zones (SAR)



In support of the potential risk of a flood event, a Flood Risk Assessment Plan is included within the application.

SAR also have a Climate Change procedure to manage the risk of:

[3] Groundsure Report

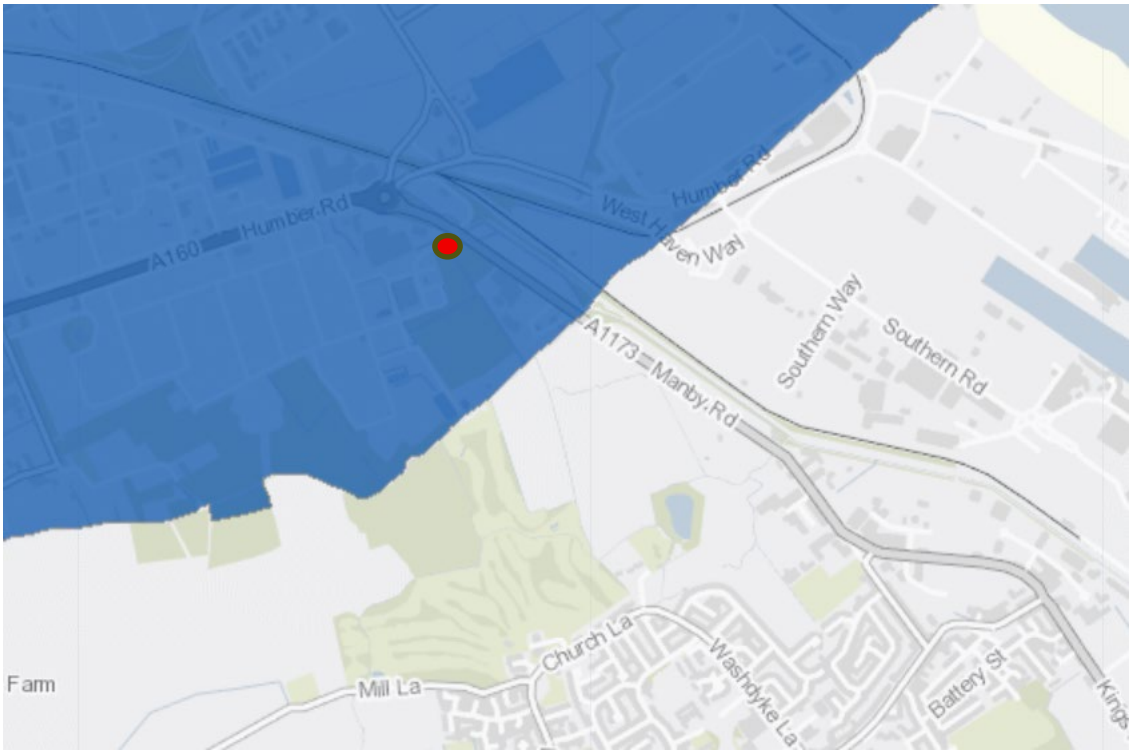
- the risks to the business from climate change
- the risks the business creates due to climate change
- onsite controls

SAR also provide training for staff in relation to flood management and awareness.

2.2.17 AQMA

Searches made on the AQMAs interactive map the is located within an Air Quality Management Area.

Image 14 – AQMA Boundary and Site Location



Checks made with North East Lincolnshire Council[4], the following AQMAs have been declared by North East Lincolnshire Council.

Table 2 – AQMA Information

AQMA	Description	Date Declared	Date Amended	Date Revoked	Pollutants
Immingham AQMA	An area encompassing parts Kings Road, part of Pelham	09/10/2006		29/01/2016	Particulate Matter PM_{10}

[4] Local Authority Details - DEFRA UK Air - GOV.UK

	Road and Part of Hawthorn Avenue in Immingham.				
Grimsby AQMA	An area encompassing properties along Cleethorpe Road, Grimsby	31/08/2010		22/05/2024	Nitrogen dioxide NO_2

Both AQMAs declared have subsequently been revoked.

Water Courses

There are no significant water courses within 1km of the site, however there are a number of small tributaries that feed onto the River Humber external to the site.

The River Humber is located 1.76km from the site.

2.2.18 Coal Mining

The site is not in a Coal Mining Affected Area[5].

2.2.19 Waste Facilities

Checks made on the EA public register[6] show the below activities permitted within 1km of the site.

Table 3 – Permitted Facilities

Waste Sites and Installation Facilities within 1km of the Site				
Company / Location	Distance and Direction	Permit Number	Activity	Status
Donald Ward	0.3km	WE0282AC	Scrap Metal Recycling	Active
PHILLIPS 66 LIMITED	0.8km	YP3995NG	Biological Treatment	Active
CPL PRODUCTS LIMITED	0.8km	EPR/DP3134LK	Pyrolysis /Coal Treatment	Active – Installation

[5] Groundsure

[6] Public Registers Online December 2025

2.2.20 Historical Land Use

Available historic maps for the site have been reviewed to determine if there is the potential for contamination to be present on Site associated with the Sites historical uses.

A summary of the historical development of the Site and surroundings is included below:

Available historic maps for the site have been reviewed to determine if there is the potential for contamination to be present on Site associated with the Sites historical uses.

Historic mapping provided in the Groundsure report (Appendix C) also support information regarding previous land use.

A summary of the historical development of the Site and surroundings is included below.

1	On site	Unspecified Works	1983	20020513

A	34m N	Unspecified Commercial/Industrial	1947	2025178
A	34m N	Dock	1947	2030354
A	34m N	Railway Sidings	1938 - 1947	2030791
B	71m SE	Unspecified Depot	1974 - 1983	2032463
A	97m NE	Docks	1951	2030397
A	103m NE	Dock	1968	2027074
A	115m NE	Railway Sidings	1972 - 1974	2026332
A	115m NE	Railway Sidings	1983	2030201
A	122m NE	Railway Sidings	1951 - 1952	2033094
C	128m NE	Railway Sidings	1968	2021079
C	135m NE	Railway Sidings	1930	2032808
2	146m N	Docks	1974 - 1983	2031749
3	180m NW	Unspecified Depot	1974 - 1983	2028359
5	416m	Unspecified	1974 -	2032880

	W		Commercial/Industrial	1983	
E	418m NW		Unspecified Depot	1974	2018914
E	418m NW		Unspecified Warehouses	1983	2019352
6	425m W		Unspecified Tanks	1983	2019754
7	469m NE		Electric Substation	1983	2017452
F	482m W		Unspecified Tanks	1974 - 1983	2022639
9	491m NE		Ore Terminal	1974 - 1983	2024993

2.2.21 Landfill

There are 3 historical landfills recorded within 500m of the site.

ID	Location	Details		
B	180m N	Site Address: Landfill Site - South	Waste Licence: Yes	Operator: Landfill Site - South
		Killingholme, Humber Road,	Site Reference: -	Killingholme
		Grimsby, Lincolnshire	Waste Type: Industrial	Licence Holder: Landfill Site - South
		Licence Holder Address: Moody	Environmental Permitting	Killingholme
		Lane, Grimsby, Lincolnshire	Regulations (Waste) Reference:	First Recorded -
			YP2/L/POR001	Last Recorded: -
			Licence Issue: 08/10/1991	
			Licence Surrender: 06/11/2007	
1	263m W	Site Address: Conoco, Killingholme	Waste Licence: Yes	Operator: -
		Licence Holder Address: -	Site Reference: 55/19/0148, 1480,	Licence Holder: -

			2000/5296	First Recorded 31/07/1975
			Waste Type: Industrial, Liquid sludge	Last Recorded: -
			Environmental Permitting Regulations (Waste) Reference: -	
			Licence Issue: 10/12/1987	
			Licence Surrender: -	
2	274m SW	Site Address: Conoco, Killingholme	Waste Licence: Yes	Operator: Conoco
		Licence Holder Address: -	Site Reference: 55/19/0148, 1480,	Licence Holder: -
			2000/5295	First Recorded 30/06/1975
			Waste Type: Industrial, Liquid sludge	Last Recorded: -
			Environmental Permitting Regulations (Waste) Reference: -	
			Licence Issue: 18/12/1987	

2.2.22 Designated Sites

Environment Agency H1 and H5 guidance states that the potential impacts of the site should be assessed for the following habitat sites within 10km of the Installation:

- Special Areas of Conservations (SACs) and candidate SACs (cSACs) designated under the EC Habitats Directive;
- Special Protection Areas (SPAs) and potential SPAs designated under the EC Birds Directive; and
- Ramsar Sites designated under the Convention of Wetlands of International Importance.

It is also stated that within 2km of the Source:

- Sites of Special Scientific Interest (SSSI) established by the 1981 Wildlife and Countryside Act;
- National Nature Reserves (NNR);
- Local Nature Reserves (LNR);
- Local Wildlife Sites (LWS), County Wildlife Sites (CWS) and potential wildlife sites (PWS);
- Sites of Importance for Nature Conservation (SINC); and
- Ancient Woodland.

2.3 Receptors

Drawing 004 shows receptors that are potentially sensitive and could reasonably be affected by the site.

Table 4 shows the sensitive receptors that could potentially be affected, within 1km of the site boundary.

Table 4 – Sensitive Receptors

Receptor	Distance	Contact
Woodland (Deciduous Woodland) Chalk River	50m	Natural England 0300 060 3900
Protected Habitats (Water Course)	500m	Natural England 0300 060 3900

Searches on the Multi Agency Geographical Information for the Countryside (MAGIC) website confirm there are none of the below receptors below located within 2km.

- Local Nature Reserves
- National Nature Reserves
- Ancient Woodland

Groundsure identifies the below receptors

- Special area of conservation (SAC) is located 1450m from the site (Humber Estuary)
- Special protection areas (SPA) is located 1450m from the site (Humber Estuary)
- RAMSAR site is located 1450m from the site (Humber Estuary)
- Sites of Special Scientific Interest (SSSI) is located 1450m from the site (Humber Estuary)

Image 4 – Designations within 1km

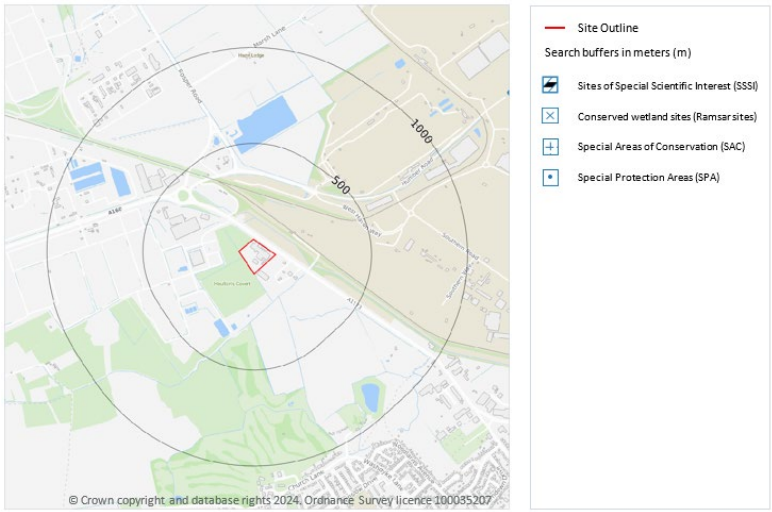


Image 5 - Protected Species

Water voles are protected under the Wildlife and Countryside Act 1981. It is an offence to intentionally:

- kill, injure or take them
- possess or control them (alive or dead)
- It is also an offence to intentionally or recklessly:
- damage or destroy a structure or place used for shelter or protection
- disturb them in a place used for shelter or protection
- obstruct access to a place used for shelter or protection

Water voles are also listed as rare and most threatened species under Section 41 of the Natural Environment and Rural Communities Act (2006).

In relation site development, construction and ongoing management, the Operator will maintain;

- vegetation management to maintain shelter and foraging resources
- managing the potential risks from increased human presence and pollution through monitoring and appropriate measures.
- water quality management to make sure it's maintained with no release to surface waters.

A separate Habitats Assessment has been produced to assess the risk to habitats and onsite controls.



Image 6 - Protected Habitats – Chalk Rivers

Chalk rivers are freshwater ecosystems that flow over and through chalk bedrock, creating unique hydrological and ecological conditions. These rare waterways are characterized by their constant cool temperatures, exceptional water clarity, high alkalinity, and remarkably stable flow rates maintained by groundwater springs emerging from chalk aquifers.

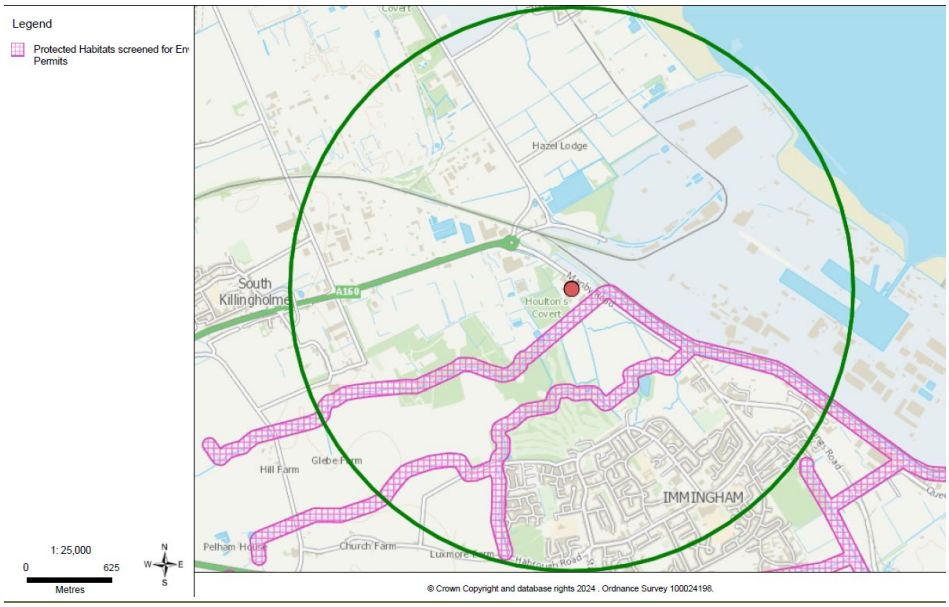
England's chalk rivers encompass:

Chalk streams – narrow, shallow waterways with gravel beds and abundant aquatic vegetation

Chalk rivers – larger waterways flowing through chalk landscapes with similar characteristics

Winterbournes – seasonal chalk streams that flow only during wet periods

Spring-fed tributaries – smaller waterways emerging directly from chalk springs



A Habitats Assessment Plan has been produced to support the above sensitive receptors.

2.4 Additional Risks and Hazards

There is no high voltage underground electricity transmission cable within 500m of the site.

There are no high-pressure underground gas transmission pipelines within 500m of the site.

Checks made for sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER) record none within 500m.

The neighbouring site (Calor Gas) is listed as site within 500m (138m) of SAR that handles hazardous substance storage/usage.

2.5 EA Pre Application

Enhanced pre application was received pre submission, this advice screened out the requirement for any noise impact assessment required and noise management plan.

3.0 Environmental Risk Assessment

3.1 Overview and Approach

This section outlines the procedure that has been followed in the undertaking of the ERA for the site. The results are presented, in accordance with the EA Guidance.

3.1.1 Identification of Hazards

The first step of an ERA is to consider and identify the risks posed to the environment by the activities proposed for a site.

The EA Guidance states that an operator must:

"*…identify whether any of the following risks could occur and what the environmental impact could be:*

- *any discharge, for example sewage or trade effluent to surface or groundwater*
- *accidents*
- *odour (not for standalone water discharge and groundwater activities)*
- *noise and vibration (not for standalone water discharge and groundwater activities)*
- *uncontrolled or unintended ('fugitive') emissions, for which risks include dust, litter, pests and pollutants that shouldn't be in the discharge*
- *visible emissions, eg smoke or visible plumes*."

3.1.2 Identification of Receptors

This document describes the site setting and the land uses in the vicinity of the site. This information has been used in order to focus on the main receptors that could be potentially at risk from the activities of the site.

Using the information gathered from the stated sources, the receptors considered for assessment within the ERA are defined in Tables 5- 9.

In accordance with the EA Guidance, drawing 004 presents a map showing the location of the site and the receptors considered within the ERA.

3.1.3 Identification of Potential Pathways

For each of the identified hazards for operation of the site, the ERA has considered that pathways through which each hazard may impact on a sensitive receptor. Where such pathways exist, the risks of potentially significant impacts have been assessed.

Where no pathway exists between an identified hazard and an identified receptor, the associated risks are not considered further within the ERA and are, thus, not included.

3.1.4 Assessment of Risks

The EA Guidance states that the nature of the ERA will be influenced by the type of activity (or activities) that are proposed for a site. For installations/waste operations, the ERA is required to consider, "*…one or more of the following, depending on the substances you discharge and where they're discharged to:*

- *assess the risks of your air emissions*
- *calculate the global warming impact of your air emissions*
- *assess risks to groundwater*
- *assess risk to groundwater from landfill leachate*
- *assess risks to surface water from hazardous pollutants*
- *assess risks to surface water from sanitary and other pollutants*"

For installations and waste operations, an operator is also required to decide how to treat, recycle or dispose of waste. The ERA has therefore included consideration of the environmental impact of the ultimate fate of the materials that will be processed by the activities of the site.

3.1.5 Controlling Risks

The EA Guidance states:

"*You'll need to show how you're managing any risks appropriately by controlling and monitoring your emissions and through your management system.*"

Where an ERA identifies risks that are potentially significant, the ERA is required to demonstrate how the risk of pollution or harm can be mitigated by measures to manage these risks. The approach undertaken to the implementation of management/mitigation measures, for this ERA, is (in order of preference):

- Avoidance / prevention;
- Minimisation / management;
- Mitigation; and
- Offset / compensation.

The following tables present the assessment in terms of hazards posed, receptors and pathways, along with management and residual risks for the following hazards:

- Odour;

- Noise and Vibration;
- Fugitive Emissions (including dust, mud, litter and pests); and
- Accidents.

Table 5 - Environmental Risk Assessment						
Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk (following Mitigation)
Point Source\ Releases to Air	Atmosphere	Airborne	• This assessment report concludes that predicted pollutant concentrations at sensitive receptor locations are not significant compared with the air quality standards and objectives set for the protection of human health. • The report concludes that under normal operation the impact at the habitat sites would not be significant. • There are no point air source emissions from the site. • Ther is no waste treatment undertaken externally, all treatment activities are undertaken undercover. • There is no treatment undertaken to waste batteries therefore reducing the risk of emissions. • Treatment of Catalytic Convertors are undertaken in an enclosed building with an LEV system to extract dust and fumes. • All ceramic powers from the CAT treatment process is contained in secure bulk bags and stored internally. • WEEE treatment is undertaken internally (other than shredding) is undertaken by hand tools reducing any suspension or release of emissions to air. • Proposed shredding of residual WEEE such as metal/plastic parts/casings once all recyclable components are removed is undertaken in a separate building which will have an LEV system installed to mitigate against any	Low: offsite receptor impacts	Air Pollution	LOW due to the proposed external and internal processes on site

			suspension of particles, fumes and dust that could impact human and the environmental receptors. • No POPs wastes are treated on site. • Bulk metals wastes if handled are stored and bulked only awaiting removal off site. • All waste batteries are received in a dedicated building for sorting and segregation. Stored undercover to maintain recyclability and prevention any emissions. • Damaged batteries are contained in a dedicated bay covered with sand and removed within 2 days.			

Emissions to Water	Groundwater / Geology / Surface Water	Waterborne	• There will be no direct process emissions to controlled water arising from the Installation. • All buildings are constructed with sealed concrete surfacing and bunding. • There is no onsite drainage in operational areas. • Only uncontaminated metals are stored externally on hard standing/tarmac surfacing. • Fuel storage onsite is limited to a 5,000 litre self bunded tank stored on an impermeable concrete surface. • There is no internal drainage within the waste storage and treatment buildings ensure there are no release emissions to water during waste treatment or in the event of a spill/pollution events. • In the event of a fire, all drainage systems can be isolated and all potentially contaminated firewater will be contained within the buildings using hydrosnakes. All fire water will then be tankered away to a suitable water treatment facility. • In the event of a fire there are no surface water drains located around the site where water can enter the surface water drainage system. All water is collected and managed through Rain Water Pipes connected to the building guttering system then discharged to surface water drain. • Foul drains for welfare and site offices are connected to the Septic Tank System. Drainage systems and their integrity will be managed through the SAR PPM System. • The site drainage system has been CCTV inspected	Low: all runoff is controlled on site, therefore the probability of exposure is low.	Contamination	VERY LOW due to the proposed management techniques and drainage arrangements

			and mapped in November 2025 with remedial work carried out to repair highlighted damage and associated pipework to ensure integrity to the system.			

Emissions to Land	Groundwater / Geology	Spills / Leaks	• There will be no emissions to land arising from the facility. • There is limited external storage of wastes (Clean uncontaminated metals) and metals created from onsite activities are stored in secure containers then sent for onward recovery. • General waste created on site (eg: packaging/wood waste) are also sorted in a secure container. • Bulk battery storage awaiting export, are stored in a steel shipping container, stored on a sealed concrete surface with batteries bulked internally in acid proof containers. • Spill kits are strategically located around site. • Minor spills to be cleaned up immediately, using spill kits. Resultant materials to be placed in containers for off-site disposal to an appropriate facility, if necessary. • Immediate action to be taken in the event of any major spills. Spillage to be cleared immediately and placed in containers for offsite disposal. The EA to be informed. • In the event of any major spillages in the external areas, the testing of the site surface area effected will be conducted to identify and remediate any pollution.	Low: spills / leaks could potentially contaminate the ground / groundwater underneath the site.	Contamination	VERY LOW due to the proposed risk management techniques

Table 6 Odour Risk Assessment						
Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk (following Mitigation)
Odour	Local residents nearest residential receptors and sensitive habitats.	Airborne	• Stringent pre-acceptance, acceptance and rejection procedures will prevent any malodourous materials from entering site. • Metals, WEEE, Catalytic Convertors and Batteries are not malodourous by nature. • All vehicles delivering and collecting materials from the site are covered or secure. • All waste processing operations take place within enclosed processing buildings to manage the risk of any potential odour impact off site. • There is no external storage of odourous waste onsite. • Odour is monitored on a daily basis during the daily site inspection. • In the unlikely event of any complaints, these will be dealt with in accordance with the sites complaints procedures. • An OMP is not required.	Low: due to nature of the facility	Nuisance	Very Low – due to the proposed management techniques

Table 7 Noise Risk Assessment						
Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk (following Mitigation)
Noise emanating from waste processing equipment and handling	Local Residents & Workers Local environ Habitats	Airborne	• The site is located within a predominantly industrial/rural setting and as such is not considered unduly sensitive in regard to noise. • All waste acceptance and treatment takes place in enclosed buildings with exception of bulk metals (no treatment) and storage of bulk batteries (1 container) are conducted externally. • All treatment of WEEE/CATS, handling of Batteries takes place inside the appropriate buildings which all benefit from roller shutter doors to minimise any noise from vehicle/plant movements, waste handling etc. • No treatment is proposed to bulk metals if received. They will be stored awaiting onward recycling. These wastes are not a primary business model and is not expected to form part of daily operations. Noise may occur when unloading and loading metals, mitigation controls such as site operatives are trained to handle wastes carefully ensuring they do not drop waste materials from height and drag containers across site surfaces. • Care is taken when loading metal wastes into vehicles directly not dropping from height. • The proposed shredding of WEEE waste is conducted in a building (5) which is fully enclosed located away from sensitive receptors, with a low treatment throughput of 4-5 per day. The proposed shredder is electric powered, and plant is chosen to consider low noise and low vibration to reduce the risk of any environmental pollution.	Low: due to proximity of closest receptors	Nuisance	Low – due to the proposed management techniques

			• SAR have a buying policy which considers noise emissions of all new plant due for renewal / replacement. • All potentially noisy plant will be acoustically enclosed and / or fitted with attenuation. • Appropriate preventative maintenance will be provided for the various elements of the installation. This will ensure no deterioration of plant or equipment that would give rise to increases in noise. • There are no generators on site which can produce significant noise levels. • All equipment has been designed in accordance with best practice and to ensure that any noise does not present an issue to the employees at the site under the Control of Noise at Work Regulations, and also to ensure that noise breakout does not lead to noise nuisance at the identified sensitive receptors. • The facility will not give rise to reasonable cause for annoyance. In the unlikely event of any complaints, these will be dealt with in accordance with the sites complaints procedures. • The site has a Noise Management Procedure in place.			

Noise associated with HGV movements (deliveries of metal/WEEE/ELV wastes)	Local Residents & Workers/ Habitats	Airborne	• Deliveries and collections take place only during operational hours. • All vehicles would be fitted with white noise reversing signals rather than the traditional 'beeper' warnings. • No Noise Impact Assessment was required or Noise Management Plan from the initial EA screening conducted and Pre Application advice given. • The requirement for a NIA and NMP has been screened through the EA NIA Tool (Noise and vibration: environmental permit application guidance - GOV.UK) • Risk assessments with regard to machinery noise levels to be carried out annually or if site activities change.	Low: due to proximity of closest receptors and controls	Nuisance	Low – due to the proposed management techniques

Table 8 Fugitive Emissions Risk Assessment						
Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk (following Mitigation)
Leaks / spillages	Land, Groundwater & Surface Water	Waterborne/Land	• There is a single self-bunded 5,000 litre diesel tank onsite. • The main source of any spillages may be due to fuel leaks from vehicles or mobile plant. • Battery acceptance is undertaken internally with batteries checked for damage upon receipt with no treatment undertaken. These are bulked by type and stored awaiting removal. • The site buildings are all surfaced in impermeable concrete surfacing. • All treatment and processing activities are located internally. • Batteries stored externally in a shipping container (and loaded in secure acid proof containers) are stored on impermeable concrete surfacing. • Only clean and uncontaminated metals are stored externally on hardstanding/tarmac areas. • Spill kits will be strategically located on site. • Minor spills to be cleaned up immediately, using spill kits. Resultant materials to be placed in container for off-site disposal to appropriate facility, if necessary. • Immediate action to be taken in the event of any major spills. Spillage to be cleared immediately and placed in containers for offsite disposal. EA to be informed.	Low	Contamination	Very Low: – due to the proposed management techniques

Dust	Local residents Habitats/Sensitive receptors	Airborne	• No processing activities take place externally. All processing/treatment takes place within the enclosed building. • Only bulk clean metals are stored externally in designated stockpiles. No treatment of this waste is carried out externally. Operations will cease when winds are deemed to cause excessive movement of wastes and any potential emissions from the handling of these wastes. Cleaning any loose waste from vehicles after covering and securing will also be conducted. • Bulk batteries are stored in a shipping container secure and fully enclosed. • Treatment of Catalytic Convertors are undertaken in a fully enclosed building with an LEV system to extract dust and fumes. • WEEE treatment is undertaken internally (other than shredding) is undertaken by hand tools reducing any suspension or release of emissions to air. • Proposed shredding of residual WEEE such as metal/plastic parts/casings once all recyclable components are removed is undertaken in a separate building (fully enclosed) which will have an LEV system installed to mitigate against any suspension of particles, fumes and dust that could impact human and the environmental receptors. • A Dust Management Plan (DEMP) has been prepared to support activities on site. • There are strict pre-acceptance, acceptance and rejection procedures in place to ensure that no material exhibiting dusty properties is accepted onto site. • Vehicle speeds will be reduced to 5mph on site which is a recognised method of controlling dust. • All plant will be regularly maintained, inspected	Low: due to proximity of closest receptors	Nuisance	Low – due to the proposed management techniques

			and kept clean to avoid a build-up of material, which may lead to dust emissions. • Site drainage and containment systems and associated infrastructure will also be regularly cleared and maintained as required to ensure they are working correctly. • All incoming / departing loads will be appropriately sheeted or tipped in designated areas. • The facility will not give rise to reasonable cause for annoyance. In the unlikely event of any complaints, these will be dealt with in accordance with the sites complaints procedures.			

Litter	Local residents Sensitive receptors	Windblown to air	• The site access and concrete / hard standing surfacing shall be swept/cleaned as necessary. • All storage takes place internally with the exception of bulk clean metals in stockpiles (this waste stream does not give rise to litter), bulk battery storage (enclosed shipping container), ferrous metals in a secure container/s from the treatment process of CATS and WEEE. These wastes do not give rise to litter. • Waste created on site (eg:packaging/wood) which are stored in a covered container. • Vehicles delivering waste to the site / collecting products are covered and secure. • The site has robust housekeeping measures in place. • Any waste generated by the facility will be disposed of at the appropriate onsite location and subject to the general site waste management plan. • The site is inspected daily by the site manager and any litter or accumulated debris shall be dealt with immediately.	Low: Little potential for waste to be generated	Nuisance	Very Low: – due to the proposed management techniques
Pests	Local Residents	Airborne & via land migration	• The site can employ commercially available products and services to control pest who visit site six weekly. • Waste types are not attractive to pests.	Low: the occurrence of pests on site is unlikely.	Nuisance	VERY LOW due to the proposed risk management techniques

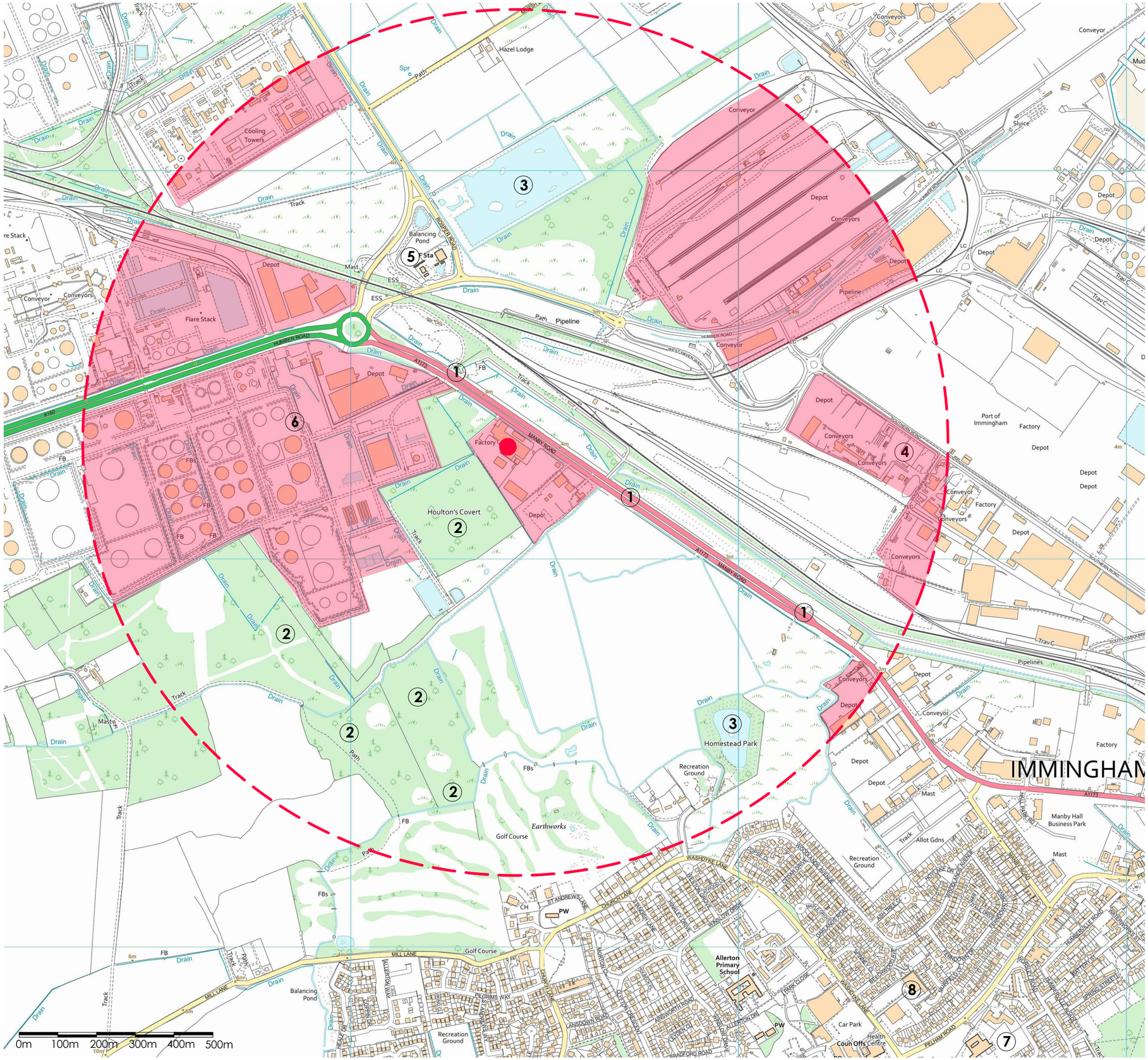
Table 9 Accident Risk Assessment						
Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequence	Overall Risk (following Mitigation)
Fire	Emissions to atmosphere	Airborne	• Arson by intruders is controlled via security. • The site is monitored by CCTV 24/7. • Visual inspection of all aspects of site are undertaken once daily in accordance with site inspection procedure. • Any fire during operational hours would be immediately identified by the sites visual inspection programme. • The sites inspection and maintenance programme will identify any electrical or mechanical machinery faults which could result in a machinery fire. • Machinery is regularly cleaned to remove any dust, etc to ensure that this does not accumulate on moving parts. • All equipment on site is equipped with dedicated fire suppression. • A number of fire extinguishers are placed at strategic locations around the plant associated with every item of mobile plant. • The potential for sparks is regularly monitored by site staff. • The risk of damaged or exposed electrical cables is controlled via the regular inspection and maintenance programme. • Staff and visitors are only permitted to smoke within the designated area, which is located offsite.	Low	Nuisance, damage	VERY LOW due to the proposed risk management techniques

			• There is no smoking permitted within the operational or storage areas. • All of the storage arrangements in line with Fire Prevention Plan Guidance maximum pile sizes and storage times. • The site has a detailed EA Approved Fire Prevention Plan.			

Operator Error	Air / land / water	Various dependent on the nature of the error	• Processing/treatment activities carried out within the site are undertaken with enclosed buildings. All operational staff will be fully trained in the site operating procedures. • Training will include awareness raising of key plant parameters and the potential implications of failure to control operations as designed and the associated potential impact on the environment. • All incidents will be recorded and investigated appropriately according to the site incident procedure.	Low	Various dependent on the nature of the error	VERY LOW due to proposed management techniques

Loss of Containment	Land / water	Site drainage system	• An emergency spillage management plan will be produced and will be incorporated within the accident management plan.
			• The sites fuel storage is limited to a 5,000 litre self bunded diesel tank stored externally upon impermeable concrete surfacing and at distance from any surface water drainage.
			• The majority of wastes are stored internally in fully enclosed buildings and will not escape from site storage containment measures. Wastes are stored in secondary containment such as:
			  • Bays
			  • Containers
			  • Pallets (wrapped and secure)
			  • Bulk Bags
			• All storage takes place internally with the exception of bulk clean metals in stockpiles (this waste stream does not give rise to litter), bulk battery storage (enclosed shipping container), ferrous metals in a secure container/s from the treatment process of CATS and WEEE. These wastes do not give rise to litter.
			• Waste created on site (eg:packaging/wood) which are stored in a covered container.
			• There are no significant quantities of chemicals kept onsite and therefore little potential for major spills.
			• All maintenance equipment is stored in the workshop with all COSHH substances stored in a secure cupboard with site specific assessments and SDS sheets.
			• Spill kits will be available to contain and clean up the spill. Site procedures will be in place to ensure that spill kit inventories are routinely checked and replacements ordered as required.
				Low	Contamination	VERY LOW due to proposed management techniques

Vandalism	Operator	The site could be subject to intentional vandalism and damage by intruders / trespassers who could cause damage or harm to the site or cause fires.	• The site has a CCTV system. • The site is monitored 24/7 by operational staff then external security team. • Site is secure fully secure with 2.3m palisade fencing. • Unauthorised access is prohibited onsite. • All incidents will be recorded and investigated appropriately according to the site incident procedure.	Low: the occurrence of vandalism taking place on site is highly unlikely.	Nuisance, Damage or Fire	VERY LOW due to the proposed risk management techniques



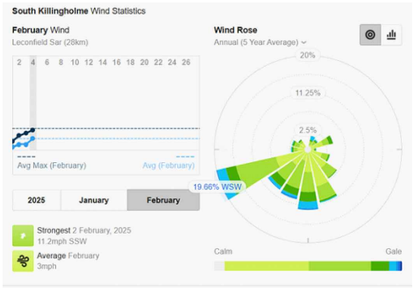
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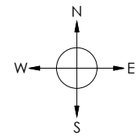
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LEGEND

- **SITE / SITE BOUNDARY**
- **1KM OFF SET BOUNDARY**
- **INDUSTRIAL / INDUSTRIAL PARK**

1. A1173
2. WOODLAND (DECIDUOUS WOODLAND) CHALK RIVER
3. PROTECTED HABITATS (WATER COURSE)
4. OXBOW UK
5. IMMINGTON WEST FIRE STATION
6. HUMBER REFINERY
7. THE CANON PETER HALL COFE PRIMARY SCHOOL
8. ALDI





SITE **SAR METALS, RJA HOUSE** **UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, IMMINGHAM, DN40 3DX**	
PROJECT **EA Permit Application**	
DRAWING TITLE **SITE RECEPTOR PLAN**	
DRAWING NUMBER **004**	REVISION **0**
SCALE **1:10000 @ A3**	DATE **10.02.25**

OLIVE Compliance



NOTES

DRAWING IS A SITE SCHEMATIC

ANY ANOMALIES ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF OLIVE COMPLIANCE

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LEGEND

- PERMIT BOUNDARY
- SURFACE WATER DRAINAGE
- FOUL DRAINAGE
- RWP RAIN WATER PIPE
- F1 FOUL WATER MANHOLES
- S1 SURFACE WATER MANHOLES

N
W E
S

SITE
SAR

UNIT 3 MANBY ROAD SOUTH KILLINGHOLME IMMINGHAM DN40 3DX

PROJECT
EA Permit Application

DRAWING TITLE
SITE DRAINAGE PLAN

DRAWING NUMBER	REVISION
009	**1 - 16.01.26**
SCALE **1:750 @ A3**	DATE **07.01.26**

OLIVE Compliance

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Order Details

Date: 13/12/2024

Your ref: PO21

Our Ref: GS-8OV-UZ4-RUJ-V9G

Site Details

Location: 517387 416279

Area: 1.71 ha

Authority: North Lincolnshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.13 >

Aerial image p. 8 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	1	3	10	7	-
15 >	1.2 >	Historical tanks >	0	0	2	2	-
16 >	1.3 >	Historical energy features >	0	0	3	3	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	1	4	13	10	-
19 >	2.2 >	Historical tanks >	0	0	2	2	-
20 >	2.3 >	Historical energy features >	0	0	5	6	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	2	-
23	3.5	Historical waste sites	0	0	0	0	-
23 >	3.6 >	Licensed waste sites >	0	0	2	1	-
24 >	3.7 >	Waste exemptions >	0	4	0	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	4.1 >	Recent industrial land uses >	1	1	8	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-

26 >	4.6 >	Control of Major Accident Hazards (COMAH) >	1	0	2	2	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27 >	4.8 >	Hazardous substance storage/usage >	0	0	1	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	4	-
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29 >	4.13 >	Licensed Discharges to controlled waters >	0	0	4	9	-
30	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
31	4.15	Pollutant release to public sewer	0	0	0	0	-
31	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	4.17	List 2 Dangerous Substances	0	0	0	0	-
31 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	0	-
31	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
34 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
35 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
36	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
36	5.5	Groundwater vulnerability- local information	None (within 0m)				
37 >	5.6 >	Groundwater abstractions >	0	0	0	0	24
41 >	5.7 >	Surface water abstractions >	0	0	0	0	1
42	5.8	Potable abstractions	0	0	0	0	0
42 >	5.9 >	Source Protection Zones >	1	0	0	1	-
42	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	6.1 >	Water Network (OS MasterMap) >	1	2	31	-	-

46 >	6.2 >	Surface water features >	1	3	19	-	-
46 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
46 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
47 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	7.1 >	Risk of flooding from rivers and the sea >	Very Low (within 50m)				
49 >	7.2 >	Historical Flood Events >	0	0	1	-	-
49	7.3	Flood Defences	0	0	0	-	-
49	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
49	7.5	Flood Storage Areas	0	0	0	-	-
50 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
50 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding					
52	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
53 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
54 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
55 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	2
59 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
59 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	1
60	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
60	10.7	Designated Ancient Woodland	0	0	0	0	0
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	10.11	Green Belt	0	0	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62 >	10.16 >	Nitrate Vulnerable Zones >	2	0	2	0	0
63 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
65 >	10.18 >	SSSI Units >	0	0	0	0	4
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72	11.4	Listed Buildings	0	0	0	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
75 >	12.5 >	Countryside Stewardship Schemes >	0	0	2	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	13.1 >	Priority Habitat Inventory >	1	1	2	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	14.1 >	10k Availability >	Identified (within 500m)				
80	14.2	Artificial and made ground (10k)	0	0	0	0	-
81	14.3	Superficial geology (10k)	0	0	0	0	-

81	14.4	Landslip (10k)	0	0	0	0	-
82	14.5	Bedrock geology (10k)	0	0	0	0	-
82	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
83 >	15.1 >	**50k Availability >**	Identified (within 500m)				
84 >	15.2 >	**Artificial and made ground (50k) >**	0	0	1	0	-
84	15.3	Artificial ground permeability (50k)	0	0	-	-	-
85 >	15.4 >	**Superficial geology (50k) >**	1	1	0	0	-
86 >	15.5 >	**Superficial permeability (50k) >**	Identified (within 50m)				
86	15.6	Landslip (50k)	0	0	0	0	-
86	15.7	Landslip permeability (50k)	None (within 50m)				
87 >	15.8 >	**Bedrock geology (50k) >**	1	0	0	0	-
87 >	15.9 >	**Bedrock permeability (50k) >**	Identified (within 50m)				
88	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
89 >	16.1 >	**BGS Boreholes >**	0	0	1	-	-
Page	Section	**Natural ground subsidence >**					
90 >	17.1 >	**Shrink swell clays >**	Low (within 50m)				
91 >	17.2 >	**Running sands >**	Moderate (within 50m)				
92 >	17.3 >	**Compressible deposits >**	Moderate (within 50m)				
93 >	17.4 >	**Collapsible deposits >**	Very low (within 50m)				
94 >	17.5 >	**Landslides >**	Low (within 50m)				
95 >	17.6 >	**Ground dissolution of soluble rocks >**	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
96	18.1	BritPits	0	0	0	0	-
96 >	18.2 >	**Surface ground workings >**	0	2	4	-	-
97	18.3	Underground workings	0	0	0	0	0
97	18.4	Underground mining extents	0	0	0	0	-
97	18.5	Historical Mineral Planning Areas	0	0	0	0	-

97	18.6	Non-coal mining	0	0	0	0	0
98	18.7	JPB mining areas	None (within 0m)				
98	18.8	The Coal Authority non-coal mining	0	0	0	0	-
98	18.9	Researched mining	0	0	0	0	-
98	18.10	Mining record office plans	0	0	0	0	-
98	18.11	BGS mine plans	0	0	0	0	-
99	18.12	Coal mining	None (within 0m)				
99	18.13	Brine areas	None (within 0m)				
99	18.14	Gypsum areas	None (within 0m)				
99	18.15	Tin mining	None (within 0m)				
99	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
100	19.1	Natural cavities	0	0	0	0	-
100	19.2	Mining cavities	0	0	0	0	0
100	19.3	Reported recent incidents	0	0	0	0	-
100	19.4	Historical incidents	0	0	0	0	-
101	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon** >					
102 >	**20.1** >	**Radon** >	Less than 1% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
103 >	**21.1** >	**BGS Estimated Background Soil Chemistry** >	1	3	-	-	-
103	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	**Railway infrastructure and projects** >	On site	0-50m	50-250m	250-500m	500-2000m
104	22.1	Underground railways (London)	0	0	0	-	-
104	22.2	Underground railways (Non-London)	0	0	0	-	-
105	22.3	Railway tunnels	0	0	0	-	-
105 >	**22.4** >	**Historical railway and tunnel features** >	0	1	11	-	-
105	22.5	Royal Mail tunnels	0	0	0	-	-

106	22.6	Historical railways	0	0	0	-	-
106 >	**22.7 >**	**Railways >**	0	0	22	-	-
107	22.8	Crossrail 2	0	0	0	0	-
107	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 11/04/2022

Site Area: 1.71ha

Recent site history - 2019 aerial photograph



Capture Date: 17/09/2019

Site Area: 1.71ha

Recent site history - 2014 aerial photograph



Capture Date: 27/09/2014

Site Area: 1.71ha

Recent site history - 2007 aerial photograph



Capture Date: 27/08/2007

Site Area: 1.71ha

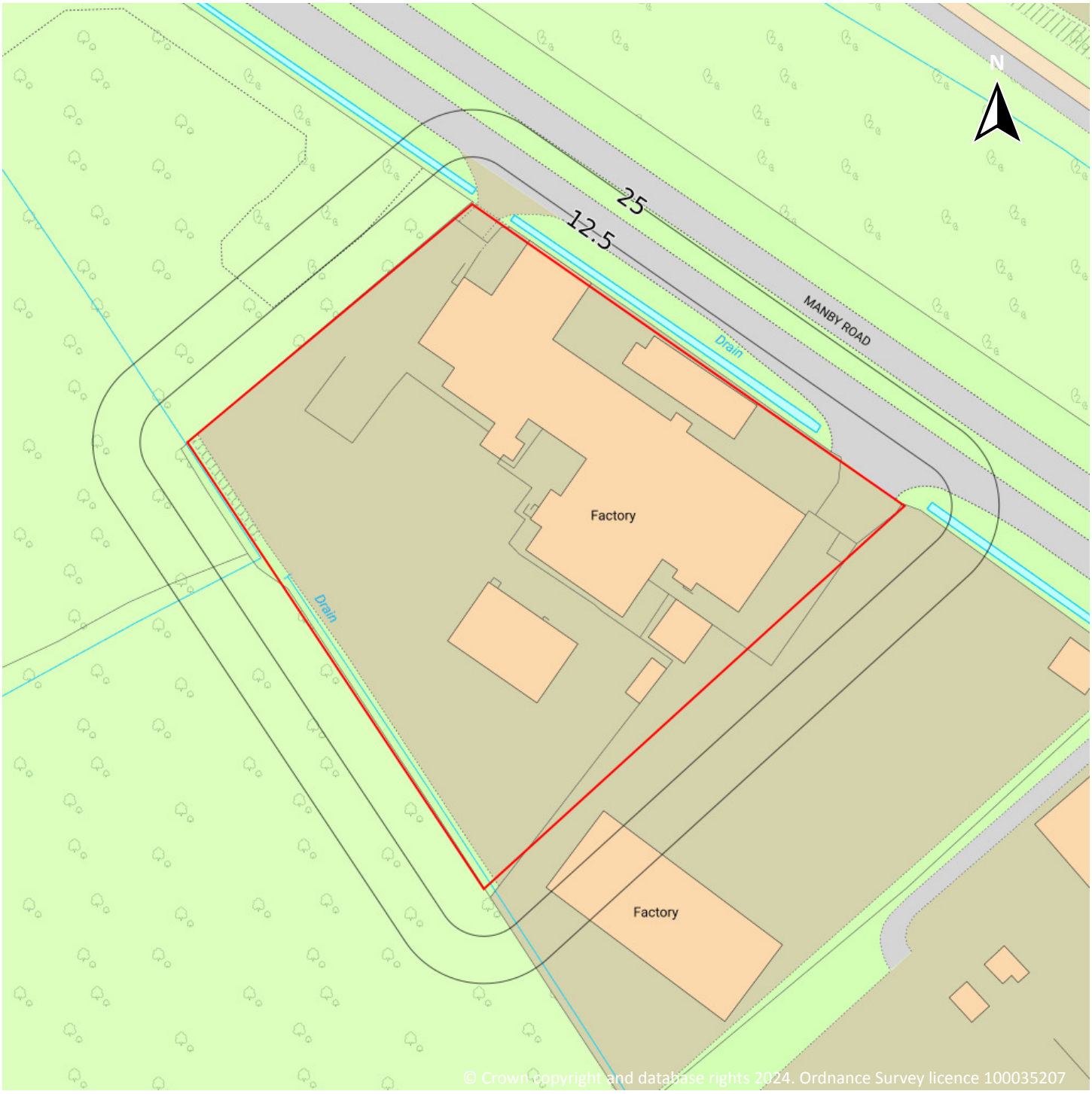
Recent site history - 1999 aerial photograph



Capture Date: 29/04/1999

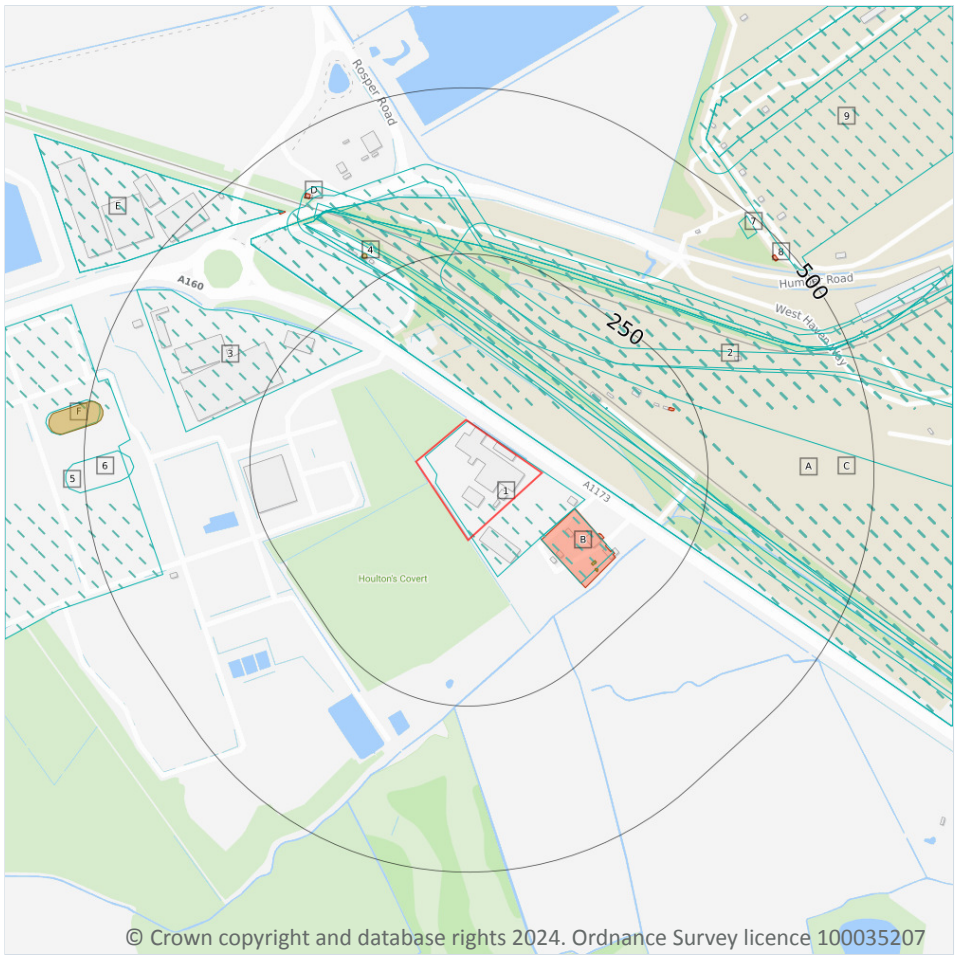
Site Area: 1.71ha

OS MasterMap site plan



Site Area: 1.71ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	21

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Works**	**1983**	**2020513**

ID	Location	Land use	Dates present	Group ID
A	34m N	Unspecified Commercial/Industrial	1947	2025178
A	34m N	Dock	1947	2030354
A	34m N	Railway Sidings	1938 - 1947	2030791
B	71m SE	Unspecified Depot	1974 - 1983	2032463
A	97m NE	Docks	1951	2030397
A	103m NE	Dock	1968	2027074
A	115m NE	Railway Sidings	1972 - 1974	2026332
A	115m NE	Railway Sidings	1983	2030201
A	122m NE	Railway Sidings	1951 - 1952	2033094
C	128m NE	Railway Sidings	1968	2021079
C	135m NE	Railway Sidings	1930	2032808
2	146m N	Docks	1974 - 1983	2031749
3	180m NW	Unspecified Depot	1974 - 1983	2028359
5	416m W	Unspecified Commercial/Industrial	1974 - 1983	2032880
E	418m NW	Unspecified Depot	1974	2018914
E	418m NW	Unspecified Warehouses	1983	2019352
6	425m W	Unspecified Tanks	1983	2019754
7	469m NE	Electric Substation	1983	2017452
F	482m W	Unspecified Tanks	1974 - 1983	2022639
9	491m NE	Ore Terminal	1974 - 1983	2024993

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
B	151m SE	Unspecified Tank	1973	349109
B	161m SE	Unspecified Tank	1982	349107
4	287m NW	Unspecified Tank	1982	349471
F	477m W	Tanks	1973	348460

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m **6**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
B	73m E	Liquid Gas Depot	1973	240395
B	125m SE	Electricity Substation	1973 - 1982	242226
A	213m E	Electricity Substation	1973 - 1982	242478
D	408m NW	Electricity Substation	1973 - 1982	242842
D	415m NW	Electricity Substation	1973 - 1982	241164
8	475m NE	Electricity Substation	1973 - 1982	243398

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m **0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

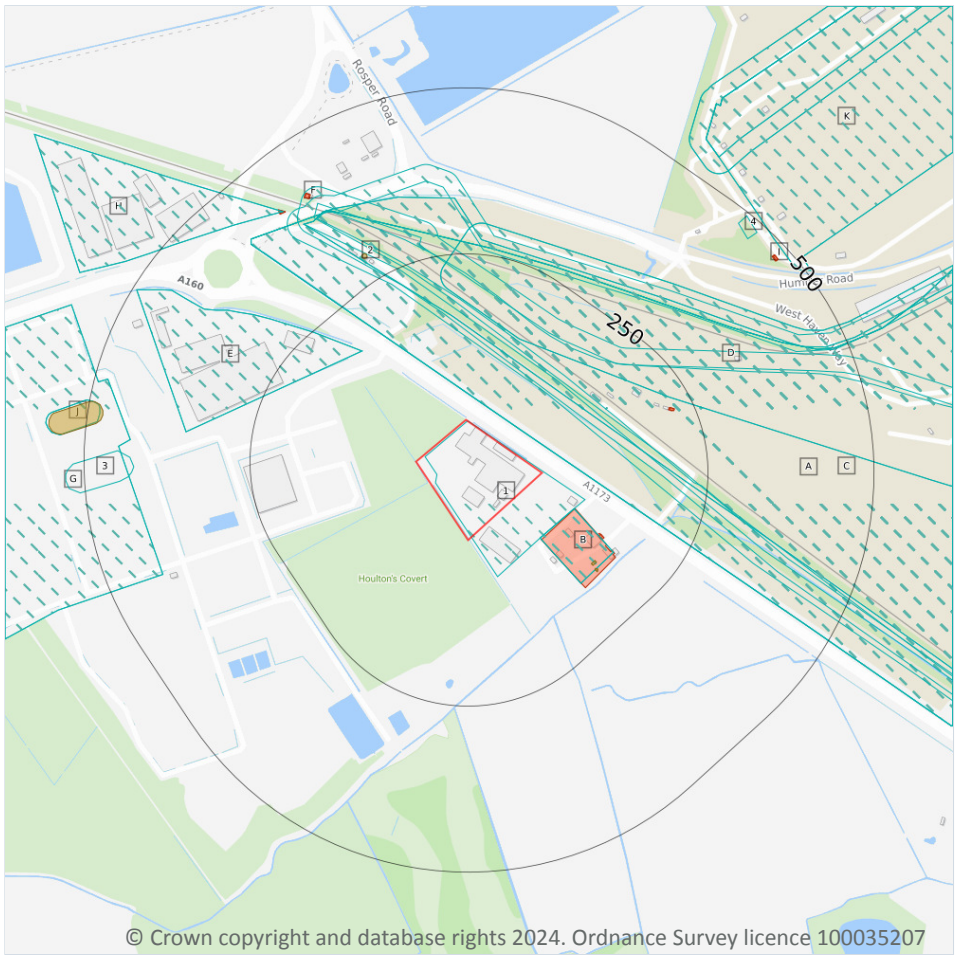
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	28

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Works**	**1983**	**2020513**
A	34m N	Dock	1947	2030354
A	34m N	Unspecified Commercial/Industrial	1947	2025178

ID	Location	Land Use	Date	Group ID
A	34m N	Railway Sidings	1947	2030791
A	34m N	Dock	1947	2030354
B	71m SE	Unspecified Depot	1974	2032463
B	71m SE	Unspecified Depot	1983	2032463
A	97m NE	Docks	1951	2030397
A	103m NE	Dock	1968	2027074
A	115m NE	Railway Sidings	1974	2026332
A	115m NE	Railway Sidings	1983	2030201
A	122m NE	Railway Sidings	1951	2033094
C	128m NE	Railway Sidings	1968	2021079
C	135m NE	Railway Sidings	1930	2032808
D	146m N	Docks	1974	2031749
D	146m N	Docks	1983	2031749
E	180m NW	Unspecified Depot	1974	2028359
E	180m NW	Unspecified Depot	1983	2028359
G	416m W	Unspecified Commercial/Industrial	1974	2032880
G	416m W	Unspecified Commercial/Industrial	1983	2032880
H	418m NW	Unspecified Depot	1974	2018914
H	418m NW	Unspecified Warehouses	1983	2019352
3	425m W	Unspecified Tanks	1983	2019754
4	469m NE	Electric Substation	1983	2017452
J	482m W	Unspecified Tanks	1974	2022639
J	482m W	Unspecified Tanks	1983	2022639
K	491m NE	Ore Terminal	1974	2024993
K	491m NE	Ore Terminal	1983	2024993

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
B	151m SE	Unspecified Tank	1973	349109
B	161m SE	Unspecified Tank	1982	349107
2	287m NW	Unspecified Tank	1982	349471
J	477m W	Tanks	1973	348460

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	11

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
B	73m E	Liquid Gas Depot	1973	240395
B	125m SE	Electricity Substation	1982	242226
B	128m SE	Electricity Substation	1973	242226
A	213m E	Electricity Substation	1982	242478
A	214m E	Electricity Substation	1973	242478
F	408m NW	Electricity Substation	1973	242842
F	409m NW	Electricity Substation	1982	242842
F	415m NW	Electricity Substation	1973	241164
F	416m NW	Electricity Substation	1982	241164
I	475m NE	Electricity Substation	1982	243398

ID	Location	Land Use	Date	Group ID
I	476m NE	Electricity Substation	1973	243398

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	3

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Details		
B	180m N	Site Address: Landfill Site - South Killingholme, Humber Road, Grimsby, Lincolnshire Licence Holder Address: Moody Lane, Grimsby, Lincolnshire	Waste Licence: Yes Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: YP2/L/POR001 Licence Issue: 08/10/1991 Licence Surrender: 06/11/2007	Operator: Landfill Site - South Killingholme Licence Holder: Landfill Site - South Killingholme First Recorded - Last Recorded: -
1	263m W	Site Address: Conoco, Killingholme Licence Holder Address: -	Waste Licence: Yes Site Reference: 55/19/0148, 1480, 2000/5296 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 10/12/1987 Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/07/1975 Last Recorded: -
2	274m SW	Site Address: Conoco, Killingholme Licence Holder Address: -	Waste Licence: Yes Site Reference: 55/19/0148, 1480, 2000/5295 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 18/12/1987 Licence Surrender: -	Operator: Conoco Licence Holder: - First Recorded 30/06/1975 Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	3

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Details		
B	241m NE	Site Name: Landfill Site - South Killingholme Site Address: Tioxide Europe Ltd, Humber Road, Grimsby, N E Linc Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TIO003 EPR reference: EA/EPR/JP3095NJ/A001 Operator: Tioxide Europe Ltd Waste Management licence No: 70833 Annual Tonnage: 475000	Issue Date: 08/10/1991 Effective Date: - Modified: - Surrendered Date: Nov 6 2007 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
B	241m NE	Site Name: Humber Road Site Address: Humber Road, Grimsby, DN40 3DX Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 627783 EPR reference: EA/EPR/JP3095NJ Operator: Venator Materials Uk Limited Waste Management licence No: 70833 Annual Tonnage: 475000	Issue Date: 08/10/1991 Effective Date: 08/10/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
C	343m E	Site Name: WARD - Pad3 Site Address: Pad 3, Immingham Dock, Immingham, DN40 2QT Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: - EPR reference: EA/EPR/WE0282AC/A001 Operator: Donald Ward Limited Waste Management licence No: 120787 Annual Tonnage: 0	Issue Date: 01/11/2023 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	**8**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

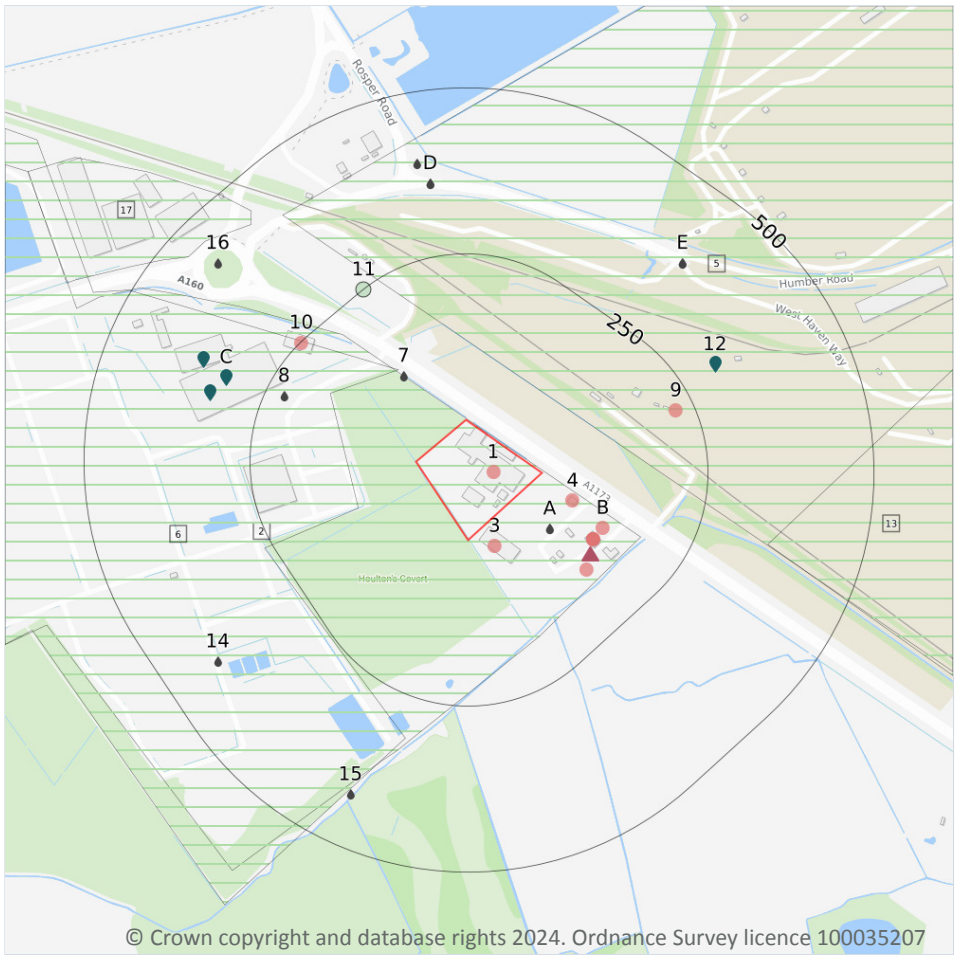
Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	2m SE	-	WEX404546	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	2m SE	-	WEX404546	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	2m SE	-	WEX404546	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	2m SE	Manby Road, Immingham, Dn40 3dx	EXP/DP3241YA	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
C	329m E	-	WEX255485	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	360m E	-	WEX253450	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	442m N	Able Humber Ports Facility, Rosper Road, Immingham, South Humberside, Dn40 3dz	WEX279786	Disposing of waste exemption	Not on a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
4	489m SW	Phillips 66 Humber Oil Refinery Bund Area 17 On South Tank Farm Dn40 3dw	EPR/TE5744KV/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Control of Major Accident Hazards

Hazardous substance storage/usage

Licensed pollutant release (Part A(2)/B)

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Works**	**Lincolnshire, DN40**	**Unspecified Works Or Factories**	**Industrial Features**
3	33m S	Factory	Lincolnshire, DN40	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
4	63m E	Delta Engineering Group Ltd	Delta Engineering Group Ltd Unit 3, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Mechanical Engineers	Engineering Services
B	124m E	Electricity Sub Station	Lincolnshire, DN40	Electrical Features	Infrastructure and Facilities
B	126m SE	Calor Gas Ltd	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	126m SE	Immingham Calor Centre	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	126m SE	Calor	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	152m SE	Tank	Lincolnshire, DN40	Tanks (Generic)	Industrial Features
9	222m E	Electricity Sub Station	Lincolnshire, DN40	Electrical Features	Infrastructure and Facilities
10	249m NW	Factory	Lincolnshire, DN40	Unspecified Works Or Factories	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	5

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Company	Address	Operational status	Tier
2	**On site**	**Conoco Manufacturing Ltd**	**Conoco Manufacturing Ltd, South Tank Farm, South Killingholme, Immingham**	**Historical NIHHS Site**	**-**
5	99m N	Associated British Ports	Associated British Ports, Immingham Dock, Immingham Dock, Immingham, Lincolnshire, DN40 2NS	Current COMAH Site	COMAH Upper Tier Operator
6	101m W	Phillips 66 Limited	Phillips 66 Limited, Humber Refinery, Humber Refinery, Eastfield Road, Grimsby, North Lincolnshire, DN40 3DW	Current COMAH Site	COMAH Upper Tier Operator
13	357m E	Exolum Immingham Limited	Exolum Immingham Limited, Immingham West Terminal, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QU	Current COMAH Site	COMAH Upper Tier Operator
17	433m NW	Humberside Sea&land Services Ltd	Humberside Sea&land Services Ltd, Units1&2, Humber Road, South KillINngholme	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Details	
B	138m SE	Application reference number: PA/1999/0998 Application status: Approved Application date: 26/11/1999 Address: Calor Gas Ltd, Manby Road, South Killingholme, North Lincolnshire, England, DN40 3DX	Details: Hazardous Substances Consent to increase the amount of LPG cylinder storage from 25 tonnes to 44 tonnes Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	4

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Address	Details	
12	307m NE	Associated British Ports Pad 1, Western Access Road, Immingham Dock, Immingham, North East Lincolnshire, DN40 2LZ	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	313m W	P D Port Services Ltd, Unit 2 Humber Road, South Killingholme, DN40 3DU	Process: Coal & Coke Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	327m W	Phillips 66 Limited, Unit 2, Humber Road, South Killingholme, DN40 3DW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	355m NW	Phillips 66 Limited, Unit 1, Humber Road, South Killingholme, DN40 3DW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m **0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m **13**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Address	Details	
A	70m SE	MANBYROADDEPOT,SOUTHKILLINGHOLME	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF560 Permit Version: 1 Receiving Water: Unknown Trib.	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 26/06/1966 Effective Date: 26/06/1966 Revocation Date: -

ID	Location	Address	Details	
A	70m SE	MANBYROADDEPOT,SOUTHKILLINGHOLME	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF560 Permit Version: 1 Receiving Water: Unknown Trib.	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 26/06/1966 Effective Date: 26/06/1966 Revocation Date: -
7	111m NW	COMMONPUMPINGSTATION,ASSOCIATEDPETROLEUMLTD,QUEENSROAD,IMMINGHAM,NORTHEASTLINCOLNSHIRE,DN402PN	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: PRNNF18603 Permit Version: 1 Receiving Water: TRIB. OF HABROUGH MARSH DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 13/03/2007 Effective Date: 31/03/2007 Revocation Date: -
8	222m NW	COMMONPUMPSTATION,IMMINGHAM,GRIMSBY,SOUTHHUMBERSIDE,DN402PW	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF927 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/03/1972 Effective Date: 28/03/1972 Revocation Date: 19/01/1994
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1093 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/07/1974 Effective Date: 17/07/1974 Revocation Date: 03/02/1992
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1093 Permit Version: 2 Receiving Water: into drain	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 04/02/1992 Effective Date: 04/02/1992 Revocation Date: 25/07/2000
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF1095 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/07/1974 Effective Date: 17/07/1974 Revocation Date: 11/02/1992
E	380m NE	OFFICEWESTENTRANCEIMMINGHAMDOCK,IMMINGHAM,DN40	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NF653 Permit Version: 1 Receiving Water: South Killingholme Main Drain	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/07/1988 Effective Date: 01/07/1988 Revocation Date: 12/03/1993

ID	Location	Address	Details	
E	380m NE	OFFICEWESTENTRANCEIMMINGHAMDOCK,IMMINGHAM,DN40	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1226 Permit Version: 1 Receiving Water: Trib. South Killingholme Main	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/02/1981 Effective Date: 05/02/1981 Revocation Date: 23/04/1996
D	393m N	NEWIMMINGHAMWESTFIRESTATION,ROSPERROAD,IMMINGHAM,NLINCOLNSHIRE,DN403DZ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRNNF12221 Permit Version: 1 Receiving Water: SOUTH KILLINGHOLME MAIN DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/08/1999 Effective Date: 26/11/1998 Revocation Date: -
14	415m SW	MESSROOMATMAINTENANCEWORKSHOP,MANBYRD,IMMINGHAM	Effluent Type: UNSPECIFIED Permit Number: PR3LFU914 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/11/1977 Effective Date: 25/11/1977 Revocation Date: 01/10/1996
15	422m S	SITESTHKILLINGHOLME,CONOCOCENTRE,WARWICKTECHPARK,GALLOWSHILLWARWICK,CV346DA	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF855A Permit Version: 1 Receiving Water: Unknown trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 24/09/1970 Effective Date: 24/09/1970 Revocation Date: 25/10/1993
16	423m NW	COMMONPUMPSTATION,SOUTHKILLINGHOLME,IMMINGHAM,DN40	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: PR3NFF782 Permit Version: 1 Receiving Water: unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 18/09/1969 Effective Date: 18/09/1969 Revocation Date: 30/09/1993

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Details	
11	250m NW	Incident Date: 30/09/2002 Incident Identification: 111635 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

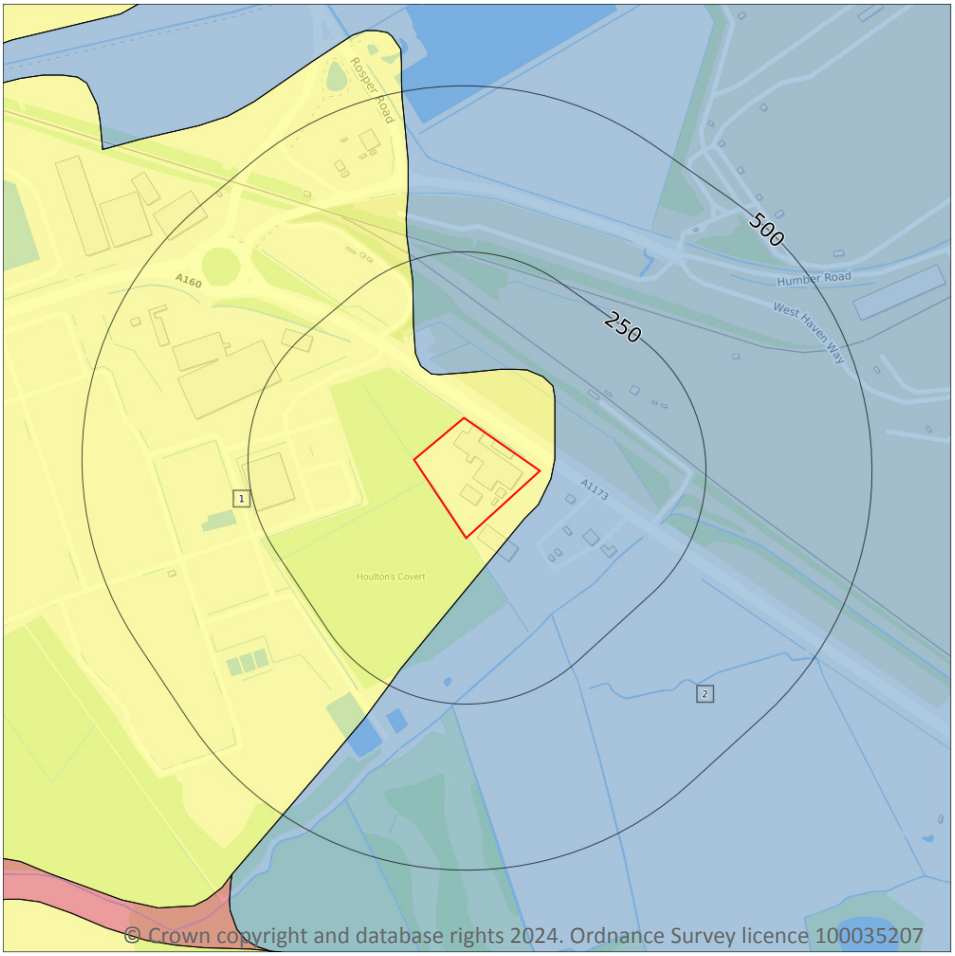
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	2

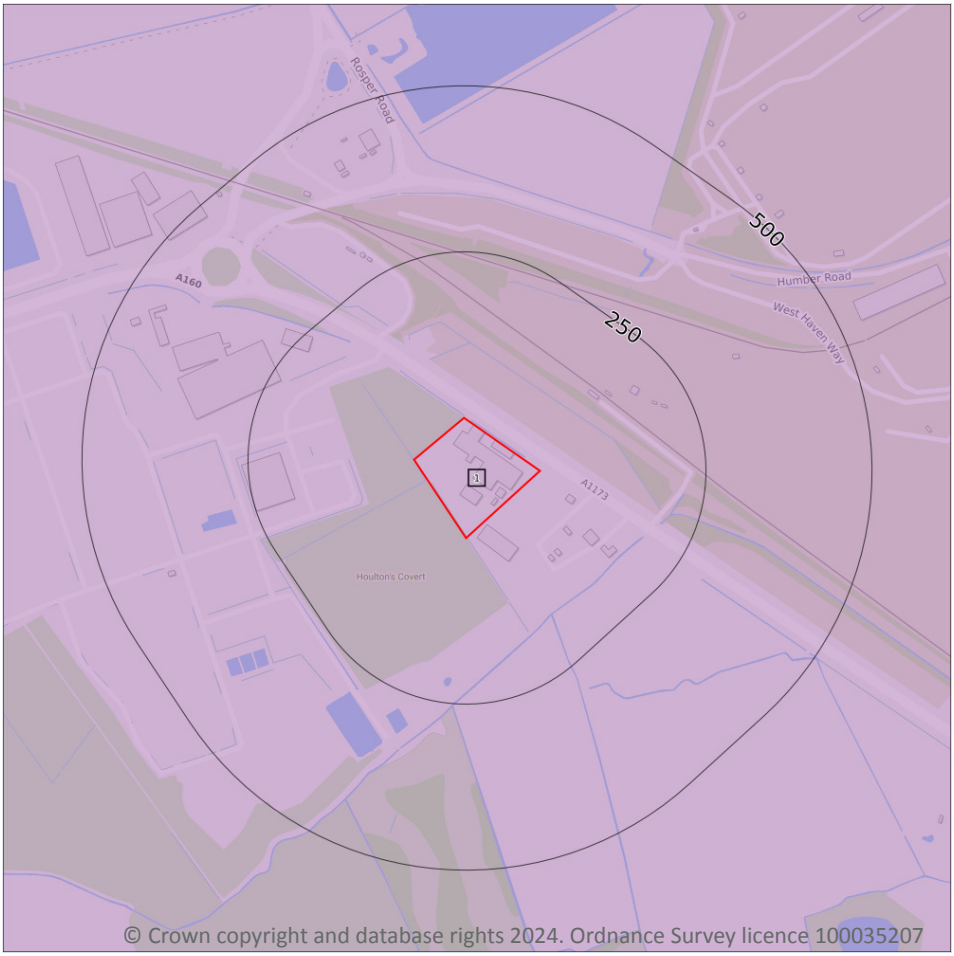
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 33 >**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	19m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

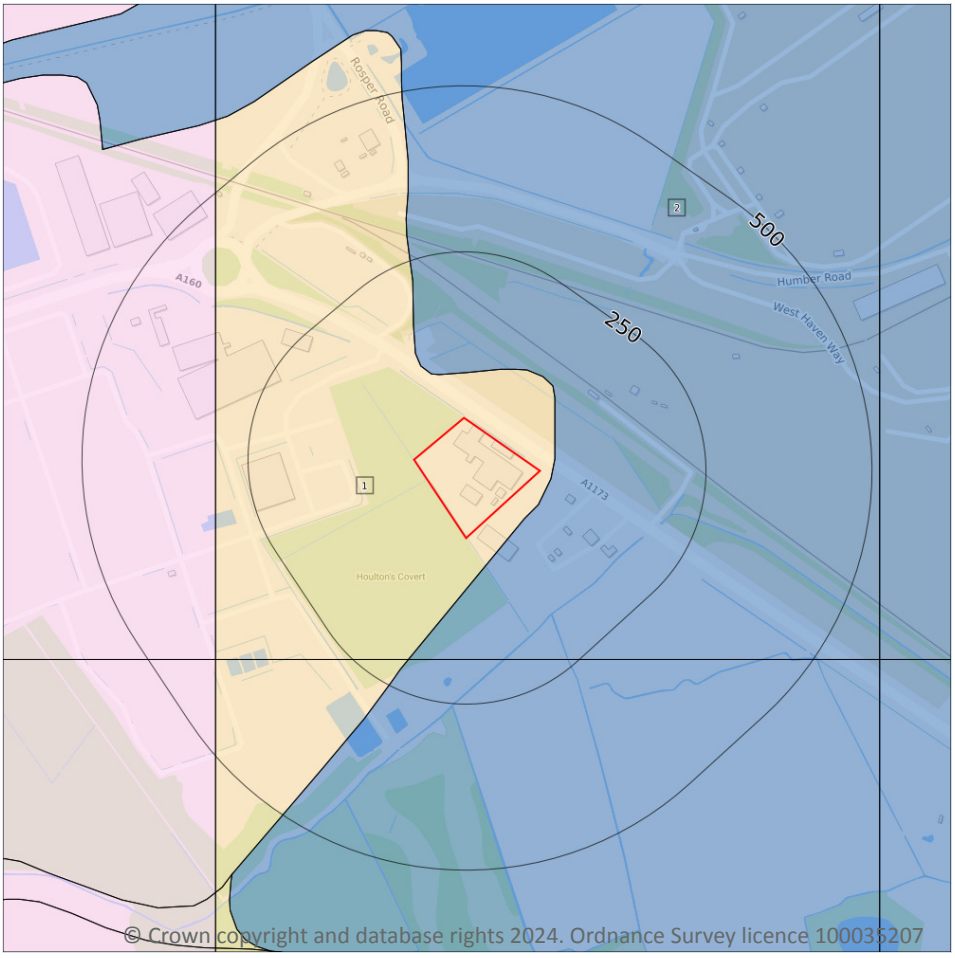
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 34 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 35 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
2	19m E	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

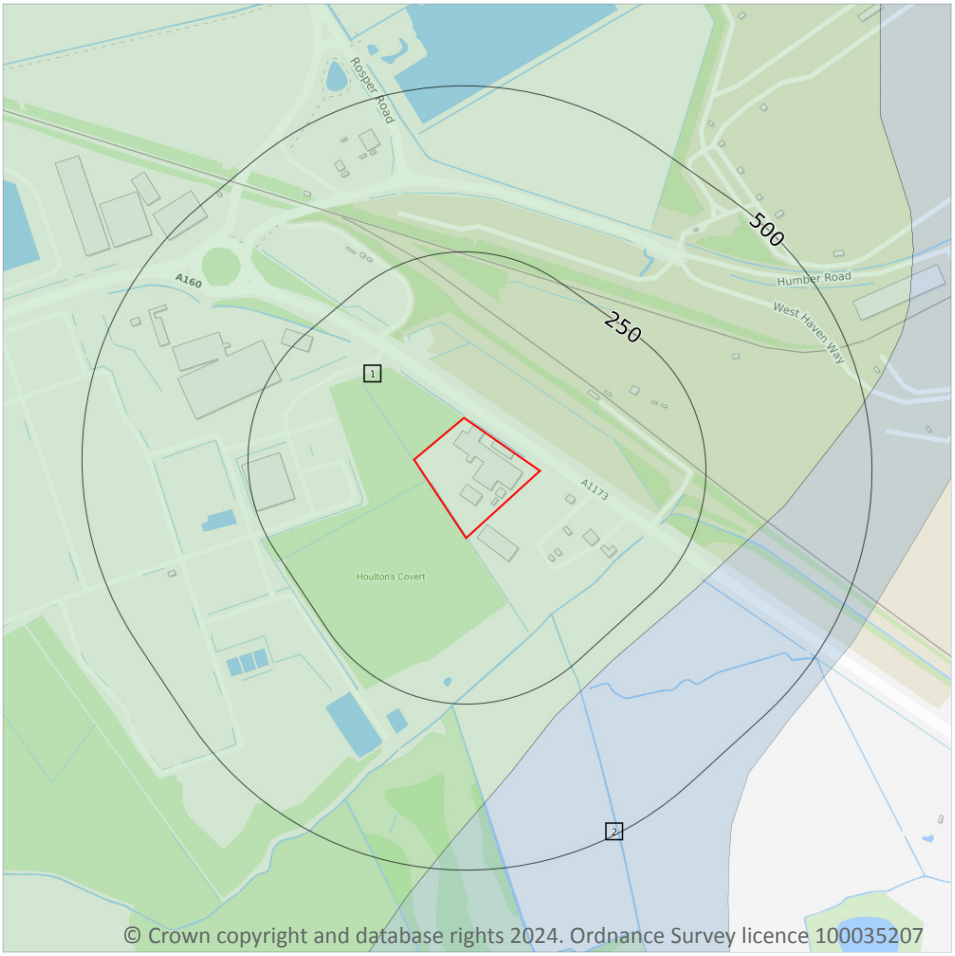
5.5 Groundwater vulnerability- local information

Records on site	**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	24

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Details	
-	772m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	772m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Non-Evaporative Cooling Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	772m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1400000 Max Daily Volume (m^3): 5480 Original Application No: NPS/WR/023334 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 05/10/2017 Version End Date: -
-	772m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	809m SE	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518200 Northing: 415900	Annual Volume (m^3): 945588 Max Daily Volume (m^3): 2619 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -

ID	Location	Details	
-	1143m N	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: INLAND CAVERN BORE 1 Data Type: Point Name: Phillips 66 Limited Easting: 517760 Northing: 417440	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1147m N	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: INLAND CAVERN BORE 2 Data Type: Point Name: Phillips 66 Limited Easting: 517770 Northing: 417440	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1150m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1150m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Non-Evaporative Cooling Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1150m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1400000 Max Daily Volume (m^3): 5480 Original Application No: NPS/WR/023334 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 05/10/2017 Version End Date: -

ID	Location	Details	
-	1150m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1156m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518600 Northing: 416600	Annual Volume (m^3): 945588 Max Daily Volume (m^3): 2619 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -
-	1612m W	Status: Active Licence No: AN/029/0009/001/R01 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: NPS/WR/023735 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1612m W	Status: Historical Licence No: 4/29/09/*G/0124 Details: Process water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: CONOCO LTD Easting: 515730 Northing: 416670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1980 Expiry Date: 31/07/2002 Issue No: 100 Version Start Date: 01/07/1997 Version End Date: -
-	1612m W	Status: Historical Licence No: 4/29/09/*G/0145 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: CONOCOPHILLIPS LTD Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 02/07/2002 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 15/07/2003 Version End Date: -

ID	Location	Details	
-	1612m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Ltd Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2010 Version End Date: -
-	1612m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 13/07/2012 Version End Date: -
-	1642m NE	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RIVERSIDE CAVERN BORE 1 Data Type: Point Name: Phillips 66 Limited Easting: 518170 Northing: 417800	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1647m NE	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RIVERSIDE CAVERN BORE 2 Data Type: Point Name: Phillips 66 Limited Easting: 518180 Northing: 417800	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1800m W	Status: Active Licence No: AN/029/0009/001/R01 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: NPS/WR/023735 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1800m W	Status: Historical Licence No: 4/29/09/*G/0124 Details: Process water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: CONOCO LTD Easting: 515620 Northing: 416950	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1980 Expiry Date: 31/07/2002 Issue No: 100 Version Start Date: 01/07/1997 Version End Date: -
-	1800m W	Status: Historical Licence No: 4/29/09/*G/0145 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: CONOCOPHILLIPS LTD Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 02/07/2002 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 15/07/2003 Version End Date: -
-	1800m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Ltd Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2010 Version End Date: -
-	1800m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 13/07/2012 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	**1**

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Details	
-	858m SE	Status: Historical Licence No: 4/29/09/*S/0127 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIB. OF HABROUGH MARSH DRAIN Data Type: Point Name: IMMINGHAM TOWN COUNCIL Easting: 517910 Northing: 415510	Annual Volume (m^3): 4092 Max Daily Volume (m^3): 46 Original Application No: - Original Start Date: 01/01/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**
2	285m SE	2	Outer catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

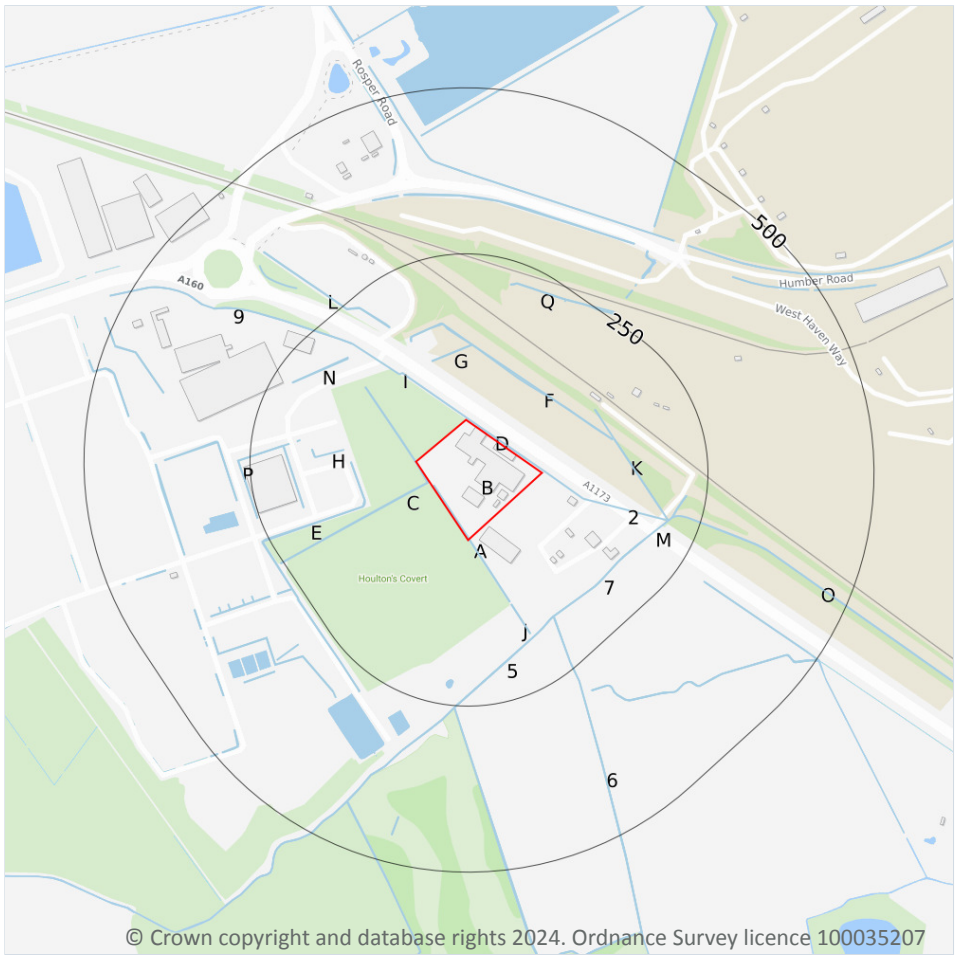
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	34

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**

ID	Location	Type of water feature	Ground level	Permanence	Name
C	1m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	73m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	92m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	96m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	101m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	110m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	114m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	116m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	116m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	117m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
K	119m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	152m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
5	171m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	177m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	180m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	182m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	184m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	185m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	190m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	197m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	198m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	201m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
M	203m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	204m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	208m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	208m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	214m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	231m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	23

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 43 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	**On site**	**River**	**North Beck Drain**	**GB104029067575**	**Becks Northern**	**Louth Grimsby and Ancholme**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	**1**

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	3593m SE	River	North Beck Drain	GB104029067575 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	**1**

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
B	**On site**	**North Lincolnshire Chalk Unit**	**GB40401G401500 ↗**	**Poor**	**Poor**	**Poor**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	1

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 48 >**

Distance	Flood risk category
On site	**Very Low**
0 - 50m	Very Low

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	**1**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 48 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	186m N	Lna_2013_12_Tidal_Witham_Haven	2013-12-05 2013-12-05	Sea	Overtopping of defences	Tidal

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

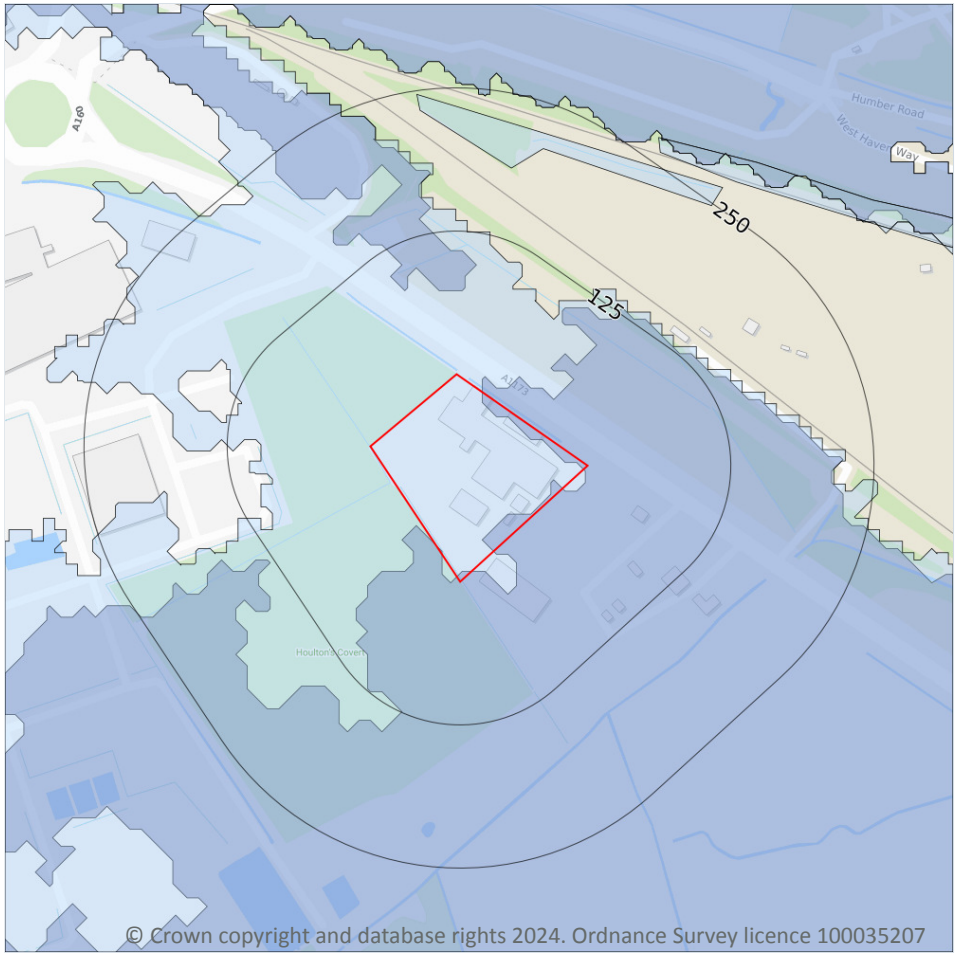
7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 48 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 48 >**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

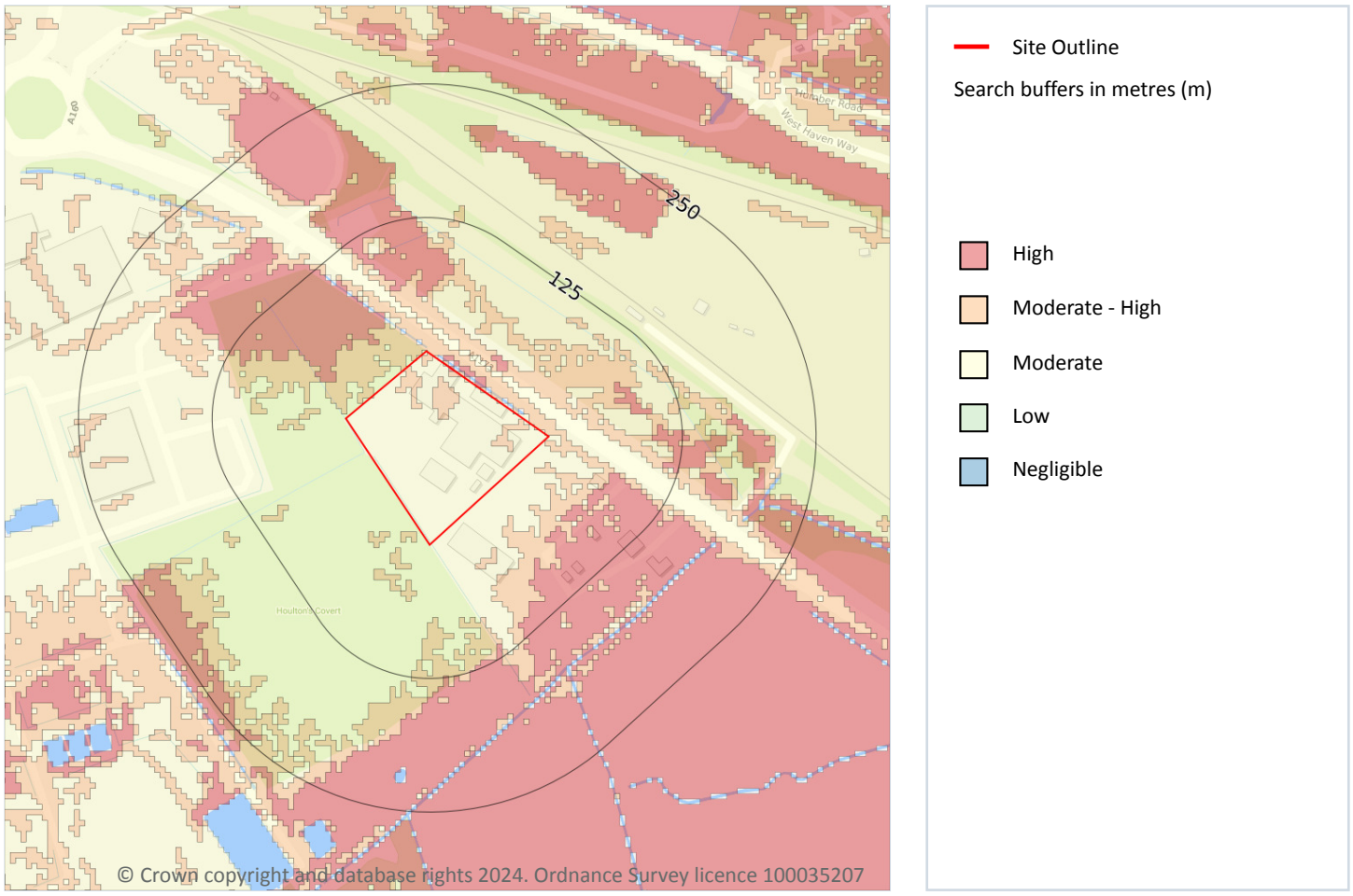
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

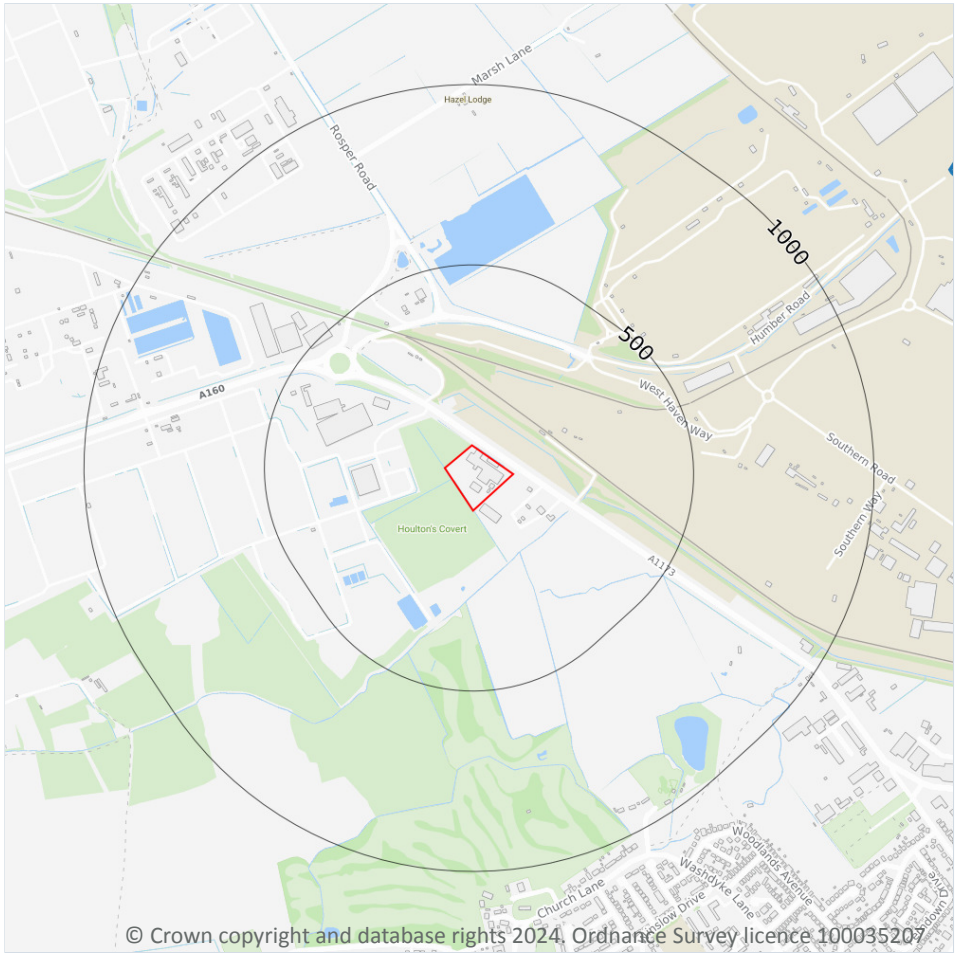
Highest risk on site	**High**
Highest risk within 50m	**High**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 53 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Conserved wetland sites (Ramsar sites)

Special Areas of Conservation (SAC)

Special Protection Areas (SPA)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Data source
A	1476m NE	Humber Estuary	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	2

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Site	Details
1	1476m NE	Name: Humber Estuary Site status: Listed Data source: Natural England	Overview: The Humber Estuary is the largest macro-tidal estuary on the British North Sea coast. It drains a catchment of some 24,240 square kilometres and is the site of the largest single input of freshwater from Britain into the North Sea. It has the second-highest tidal range in Britain (max 7.4 m) and approximately one-third of the estuary is exposed as mud or sand flats at low tide. The inner estuary supports extensive areas of reedbed with areas of mature and developing saltmarsh backed in places by limited areas of grazing marsh in the middle and outer estuary. On the north Lincolnshire coast the saltmarsh is backed by low sand dunes with marshy slacks and brackish pools. The Estuary regularly supports internationally important numbers of waterfowl in winter and nationally important breeding populations in summer. Ramsar criteria: Ramsar criterion 1 The site is a representative example of a near-natural estuary with the following component habitats: dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons. It is a large macro-tidal coastal plain estuary with high suspended sediment loads, which feed a dynamic and rapidly changing system of accreting and eroding intertidal and subtidal mudflats, sandflats, saltmarsh and reedbeds. Examples of both strandline, foredune, mobile, semi-fixed dunes, fixed dunes and dune grassland occur on both banks of the estuary and along the coast. The estuary supports a full range of saline conditions from the open coast to the limit of saline intrusion on the tidal rivers of the Ouse and Trent. Wave exposed sandy shores are found in the outer/open coast areas of the estuary. These change to the more moderately exposed sandy shores and then to sheltered muddy shores within the main body of the estuary and up into the tidal rivers. The lower saltmarsh of the Humber is dominated by common cordgrass Spartina anglica and annual glasswort Salicornia communities. Low to mid marsh communities are mostly represented by sea aster Aster tripolium, common saltmarsh grass Puccinellia maritima and sea purslane Atriplex portulacoides communities. The upper portion of the saltmarsh community is atypical, dominated by sea couch Elytrigia atherica (Elymus pycnanthus) saltmarsh community. In the upper reaches of the estuary, the tidal marsh community is dominated by the common reed Phragmites australis fen and sea club rush Bolboschoenus maritimus swamp with the couch grass Elytrigia repens (Elymus repens) saltmarsh community. Within the Humber Estuary Ramsar site there are good examples of four of the five physiographic types of saline lagoon. Ramsar criterion 3 The Humber Estuary Ramsar site supports a breeding colony of grey seals Halichoerus grypus at Donna Nook. It is the second largest grey seal colony in England and the furthest south regular breeding site on the east coast. The dune slacks at Saltfleetby-Theddlethorpe on the southern extremity of the Ramsar site are the most north-easterly breeding site in Great Britain of the natterjack toad Bufo calamita. Ramsar criterion 5 Assemblages of international importance: 153,934 waterfowl, non-breeding season (5 year peak mean 1996/97-2000/2001) Ramsar criterion 6 – species/populations occurring at levels of international

ID	Location	Site	Details
-	1721m NE	Name: Humber Estuary Site status: Listed Data source: Natural England	Overview: The Humber Estuary is the largest macro-tidal estuary on the British North Sea coast. It drains a catchment of some 24,240 square kilometres and is the site of the largest single input of freshwater from Britain into the North Sea. It has the second-highest tidal range in Britain (max 7.4 m) and approximately one-third of the estuary is exposed as mud or sand flats at low tide. The inner estuary supports extensive areas of reedbed with areas of mature and developing saltmarsh backed in places by limited areas of grazing marsh in the middle and outer estuary. On the north Lincolnshire coast the saltmarsh is backed by low sand dunes with marshy slacks and brackish pools. The Estuary regularly supports internationally important numbers of waterfowl in winter and nationally important breeding populations in summer. Ramsar criteria: Ramsar criterion 1 The site is a representative example of a near-natural estuary with the following component habitats: dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons. It is a large macro-tidal coastal plain estuary with high suspended sediment loads, which feed a dynamic and rapidly changing system of accreting and eroding intertidal and subtidal mudflats, sandflats, saltmarsh and reedbeds. Examples of both strandline, foredune, mobile, semi-fixed dunes, fixed dunes and dune grassland occur on both banks of the estuary and along the coast. The estuary supports a full range of saline conditions from the open coast to the limit of saline intrusion on the tidal rivers of the Ouse and Trent. Wave exposed sandy shores are found in the outer/open coast areas of the estuary. These change to the more moderately exposed sandy shores and then to sheltered muddy shores within the main body of the estuary and up into the tidal rivers. The lower saltmarsh of the Humber is dominated by common cordgrass Spartina anglica and annual glasswort Salicornia communities. Low to mid marsh communities are mostly represented by sea aster Aster tripolium, common saltmarsh grass Puccinellia maritima and sea purslane Atriplex portulacoides communities. The upper portion of the saltmarsh community is atypical, dominated by sea couch Elytrigia atherica (Elymus pycnanthus) saltmarsh community. In the upper reaches of the estuary, the tidal marsh community is dominated by the common reed Phragmites australis fen and sea club rush Bolboschoenus maritimus swamp with the couch grass Elytrigia repens (Elymus repens) saltmarsh community. Within the Humber Estuary Ramsar site there are good examples of four of the five physiographic types of saline lagoon. Ramsar criterion 3 The Humber Estuary Ramsar site supports a breeding colony of grey seals Halichoerus grypus at Donna Nook. It is the second largest grey seal colony in England and the furthest south regular breeding site on the east coast. The dune slacks at Saltfleetby-Theddlethorpe on the southern extremity of the Ramsar site are the most north-easterly breeding site in Great Britain of the natterjack toad Bufo calamita. Ramsar criterion 5 Assemblages of international importance: 153,934 waterfowl, non-breeding season (5 year peak mean 1996/97-2000/2001) Ramsar criterion 6 – species/populations occurring at levels of international

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Features of interest	Habitat description	Data source
A	1476m NE	Humber Estuary	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Dunes with sea-buckthorn; Sea lamprey; River lamprey; Allis shad; Twaite shad; Grey seal; Common seal.	Bogs, Marshes, Water fringed vegetation, Fens; Salt marshes, Salt pastures, Salt steppes; Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	1

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Species of interest	Habitat description	Data source
A	1476m NE	Humber Estuary	Great bittern; Great bittern; Common shelduck; Eurasian wigeon; Eurasian teal; Mallard; Common pochard; Greater scaup; Common goldeneye; Eurasian marsh harrier; Hen harrier; Eurasian oystercatcher; Pied avocet; Pied avocet; Ringed plover; Ringed plover; European golden plover; Grey plover; Grey plover; Northern lapwing; Red knot; Red knot; Sanderling; Sanderling; Ruff; Bar-tailed godwit; Whimbrel; Eurasian curlew; Common redshank; Common redshank; Common greenshank; Ruddy turnstone; Little tern; Black-tailed godwit; Black-tailed godwit; Dunlin; Dunlin; Dark-bellied brent goose	Salt marshes, Salt pastures, Salt steppes; Inland water bodies (Standing water, Running water); Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	4

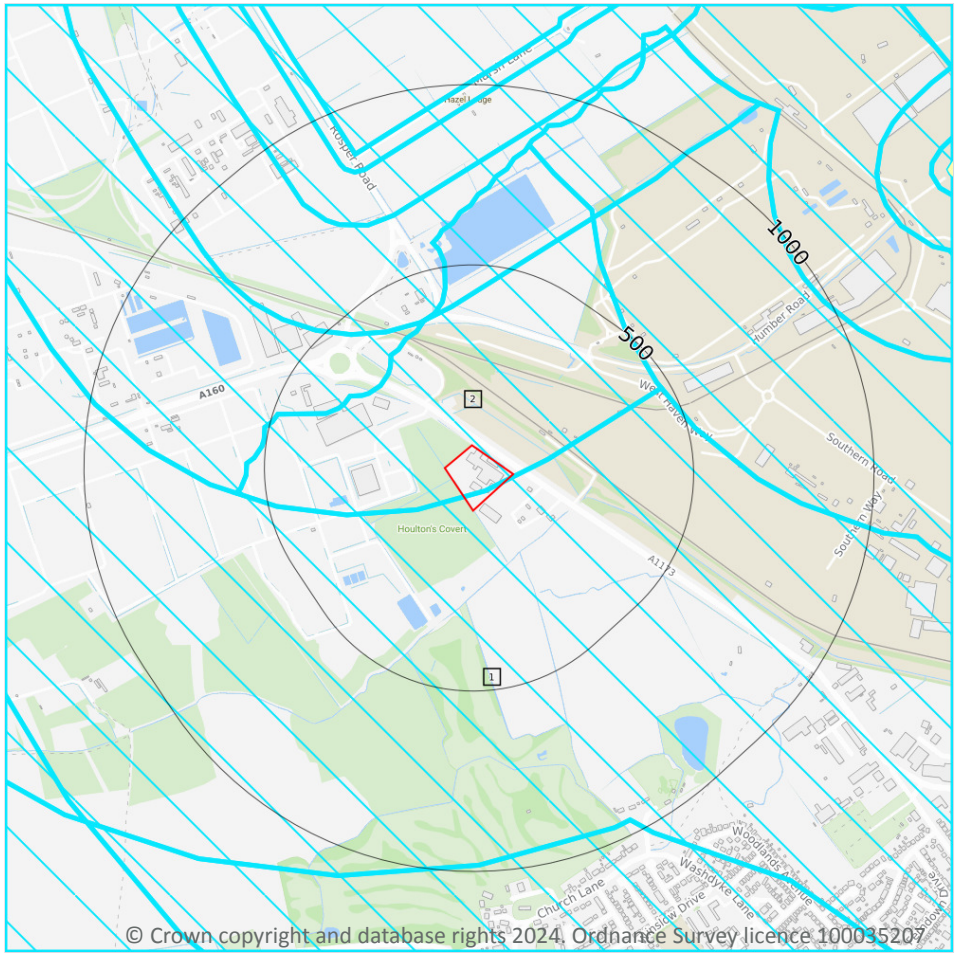
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**North Beck Drain NVZ**	**Surface Water**	**359**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**Lincolnshire Chalk**	**Groundwater**	**80**	**Existing**
201m S	North Beck Drain NVZ	Surface Water	359	Existing
235m SW	Lincolnshire Chalk	Groundwater	80	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 63 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 50 units or more.** **Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.** **Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).** **Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.** **Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.** **Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.** **Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

ID	Location	Type of developments requiring consultation
2	On site	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**4**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 63 >**

ID:	14
Location:	1476m NE
SSSI name:	Humber Estuary
Unit name:	Pipeline Jetty To South Killingholme Haven
Broad habitat:	Littoral Sediment
Condition:	Unfavourable - Recovering
Reportable features:	

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-

Feature name	Feature condition	Date of assessment
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1721m NE
SSSI name: Humber Estuary
Unit name: Hit To Second Jetty
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - Declining	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022

Feature name	Feature condition	Date of assessment
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
H1310 Salicornia and other annuals colonising mud and sand	Favourable	24/02/2022
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	24/02/2022
Invert. assemblage M3 saltmarsh, estuary and mudflat	-	-
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Marsh Harrier, Circus aeruginosus - A081, b	Favourable	21/04/2022
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022

Feature name	Feature condition	Date of assessment
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
SM4-28 - Saltmarsh	Favourable	24/02/2022
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1862m N
SSSI name: Humber Estuary
Unit name: Jetty To North Killingholme Haven
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - Declining	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
H1310 Salicornia and other annuals colonising mud and sand	Favourable	24/02/2022
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	24/02/2022
Invert. assemblage M3 saltmarsh, estuary and mudflat	-	-

Feature name	Feature condition	Date of assessment
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Marsh Harrier, Circus aeruginosus - A081, b	Favourable	21/04/2022
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
SM4-28 - Saltmarsh	Favourable	24/02/2022
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1896m NE
SSSI name: Humber Estuary
Unit name: Humber Bridge To Grimsby Dock Subtidal
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022

Feature name	Feature condition	Date of assessment
Estuaries	Unfavourable - Recovering	21/12/2010
Estuary	-	-
H1110 Sandbanks which are slightly covered by sea water all the time	-	-
H1130 Estuaries	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	Unfavourable - Recovering	21/12/2010
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	Unfavourable - Recovering	21/12/2010
Waterbird assemblage - Wintering	-	-

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

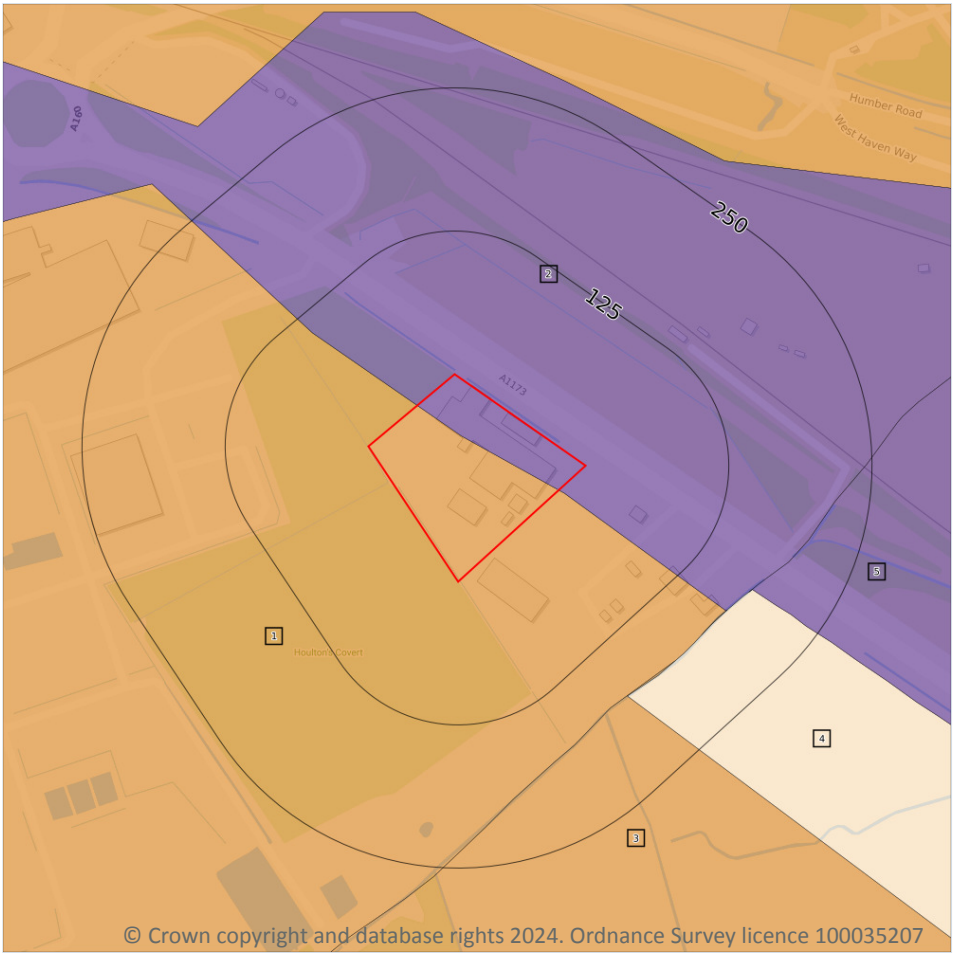
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	5

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 74 >**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	On site	Urban	Non-agricultural/no quality assigned

ID	Location	Classification	Description
3	171m SE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
4	173m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
5	176m SE	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	**0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**1**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
171m SE	AG00314086	Entry Level plus Higher Level Stewardship	01/10/2011	30/09/2021

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

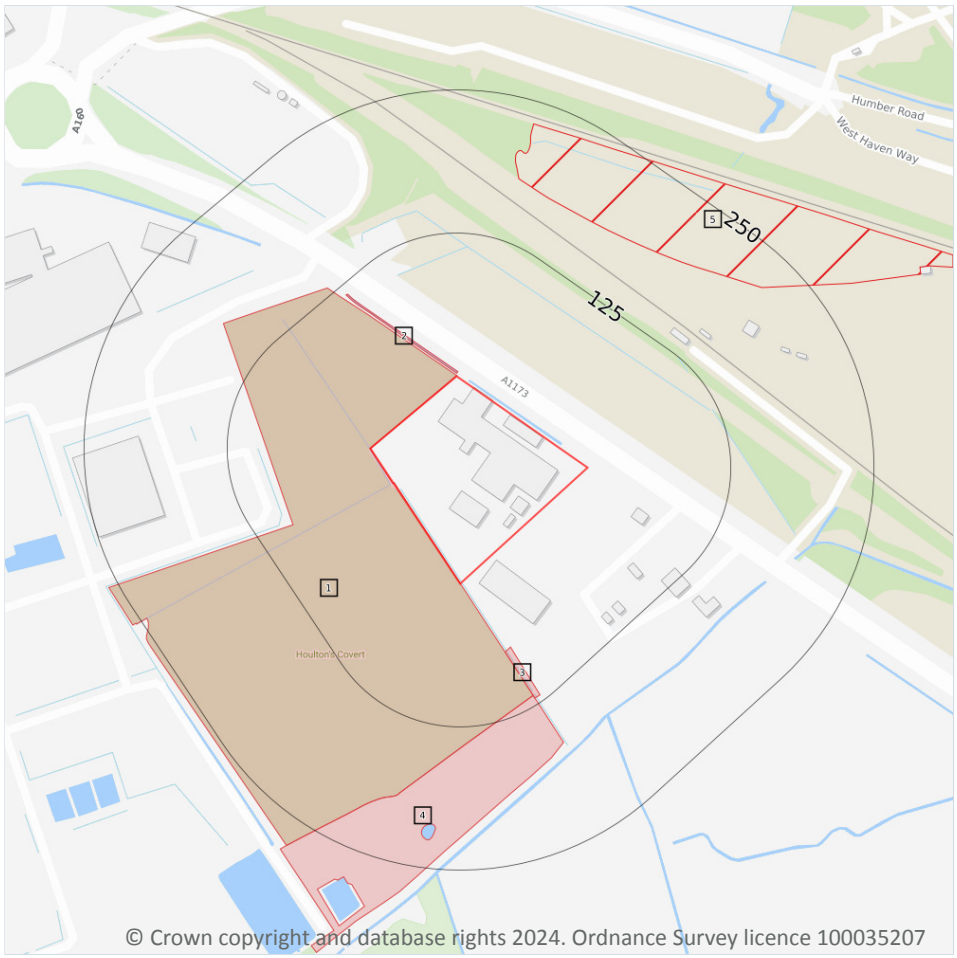
Records within 250m	2

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
171m SE	1430000	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
171m SE	1272162	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	4

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 77 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	3m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	71m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	117m S	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on **page 77 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
5	175m N	HLD_refs: EAHLD35782	Low	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 79 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**No coverage**	**No coverage**	**No coverage**	**NoCov**

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

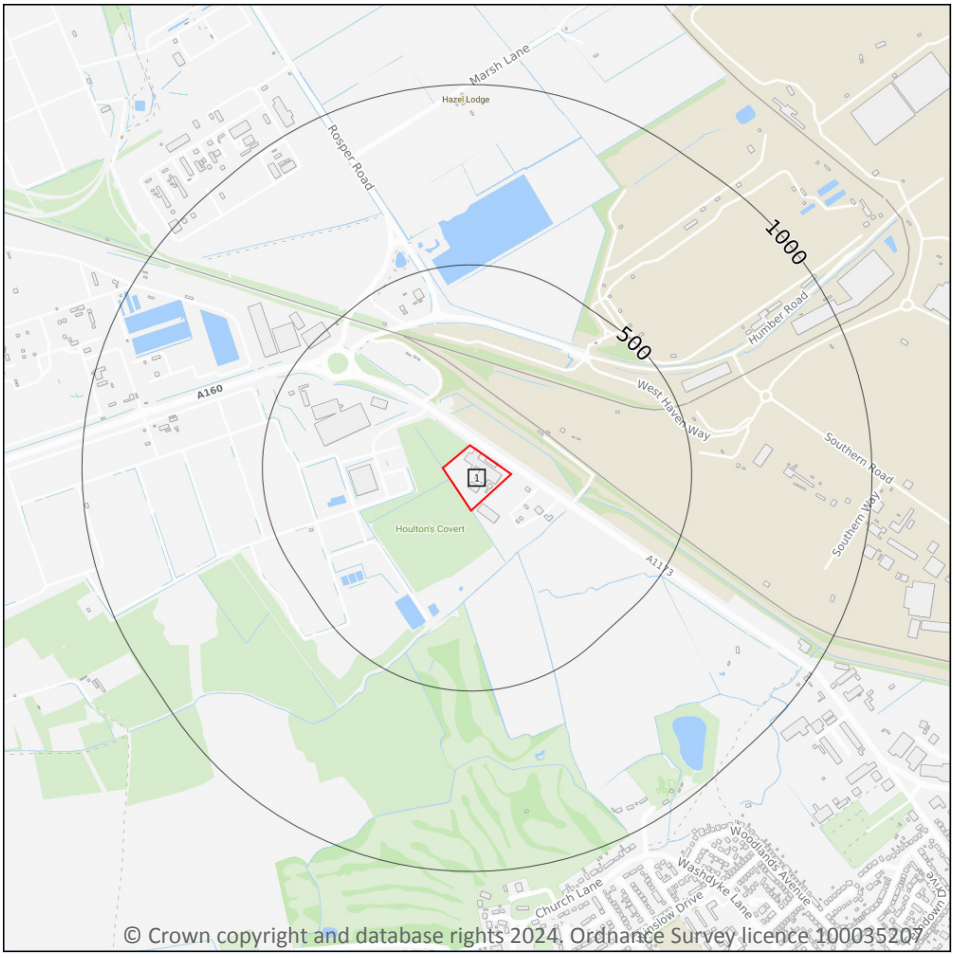
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

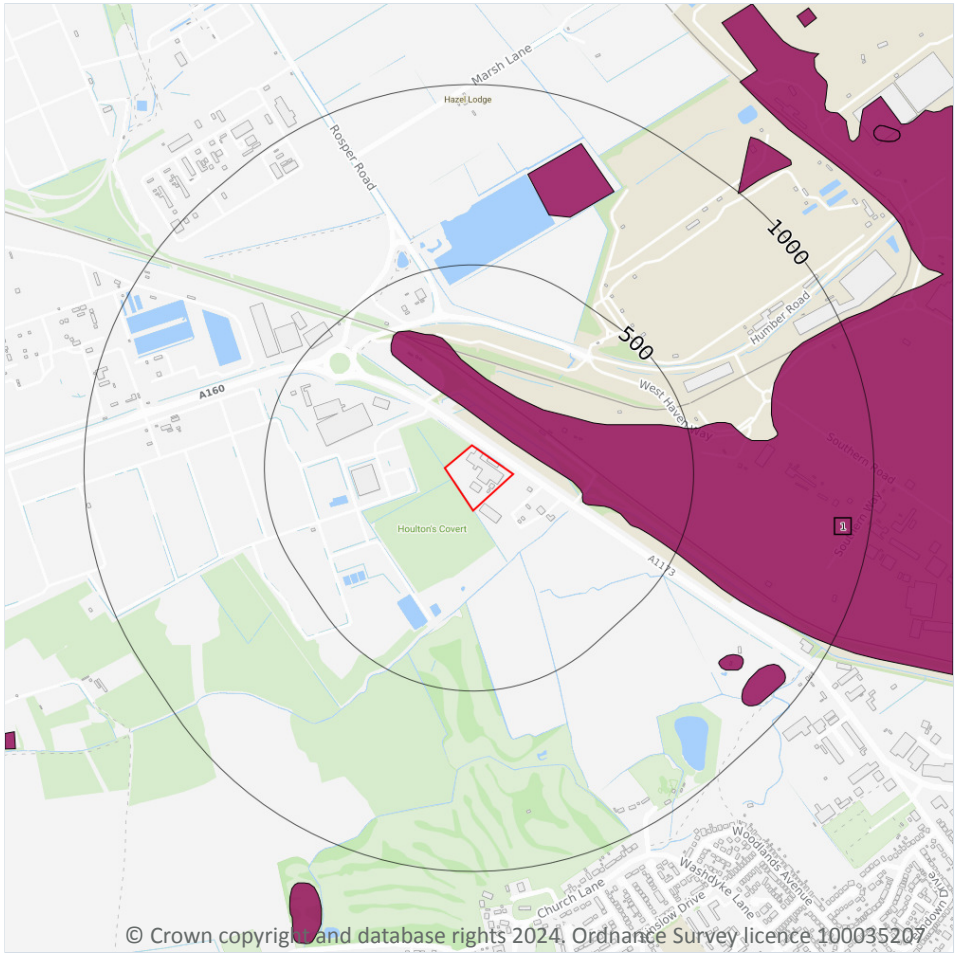
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 83 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW081_082_patrington_and_spurn_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 84 >**

ID	Location	LEX Code	Description	Rock description
1	70m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

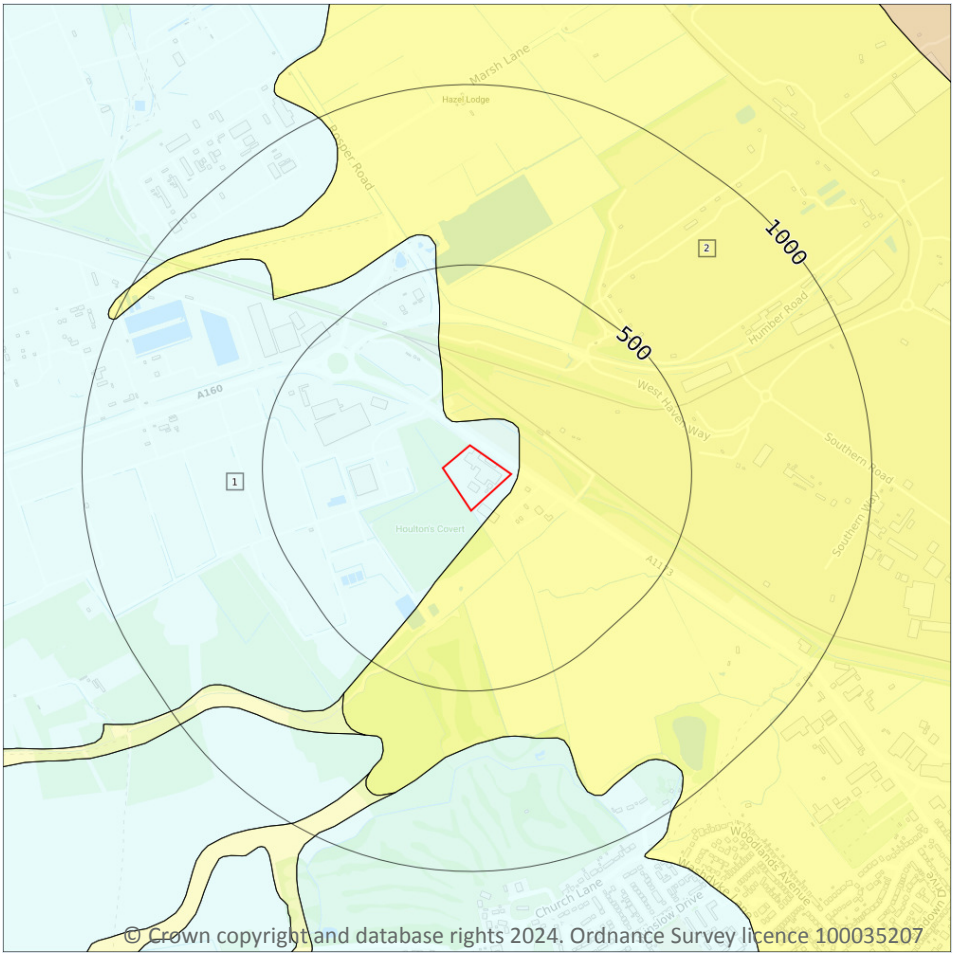
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **2**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 85 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	19m E	TFD-XCZ	TIDAL FLAT DEPOSITS	CLAY AND SILT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**
19m E	Intergranular	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 87 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**BCK-CHLK**	**BURNHAM CHALK FORMATION - CHALK**	**TURONIAN**

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	1

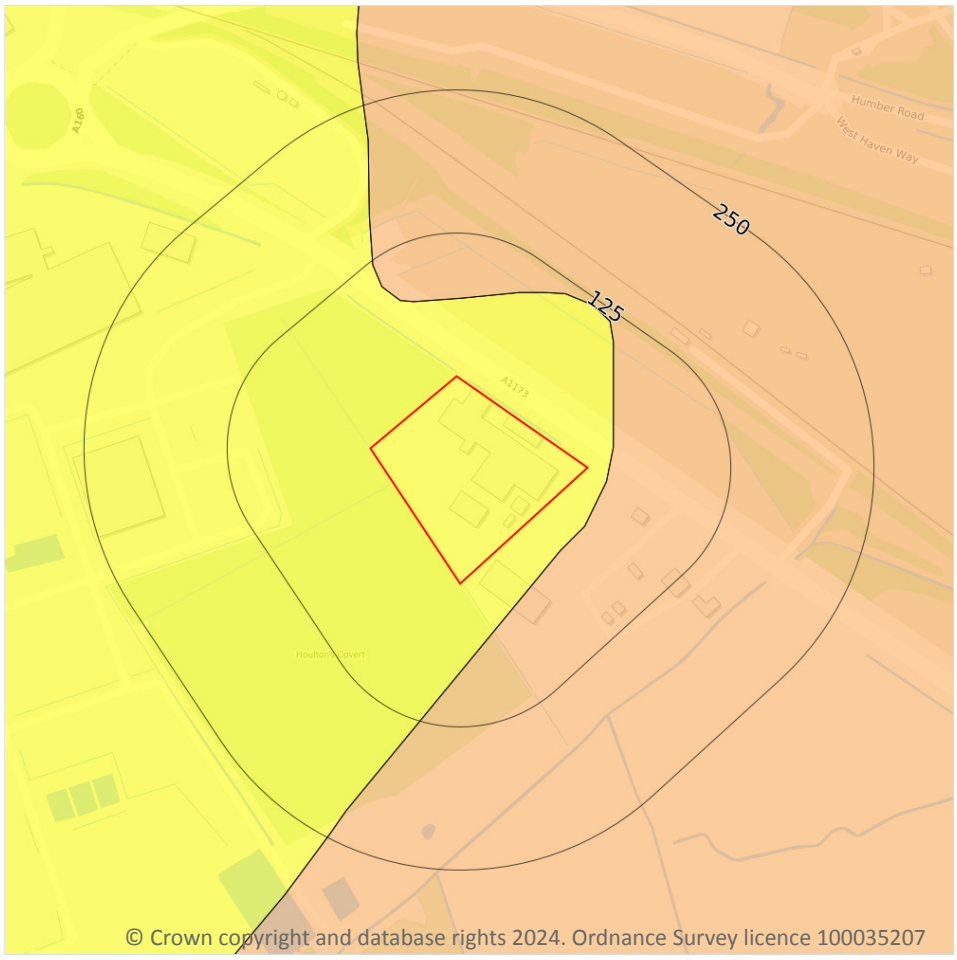
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 89 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	153m SE	517580 416160	IMMINGHAM DOCK JOBSONS FIELD 9	64.01	N	461254 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

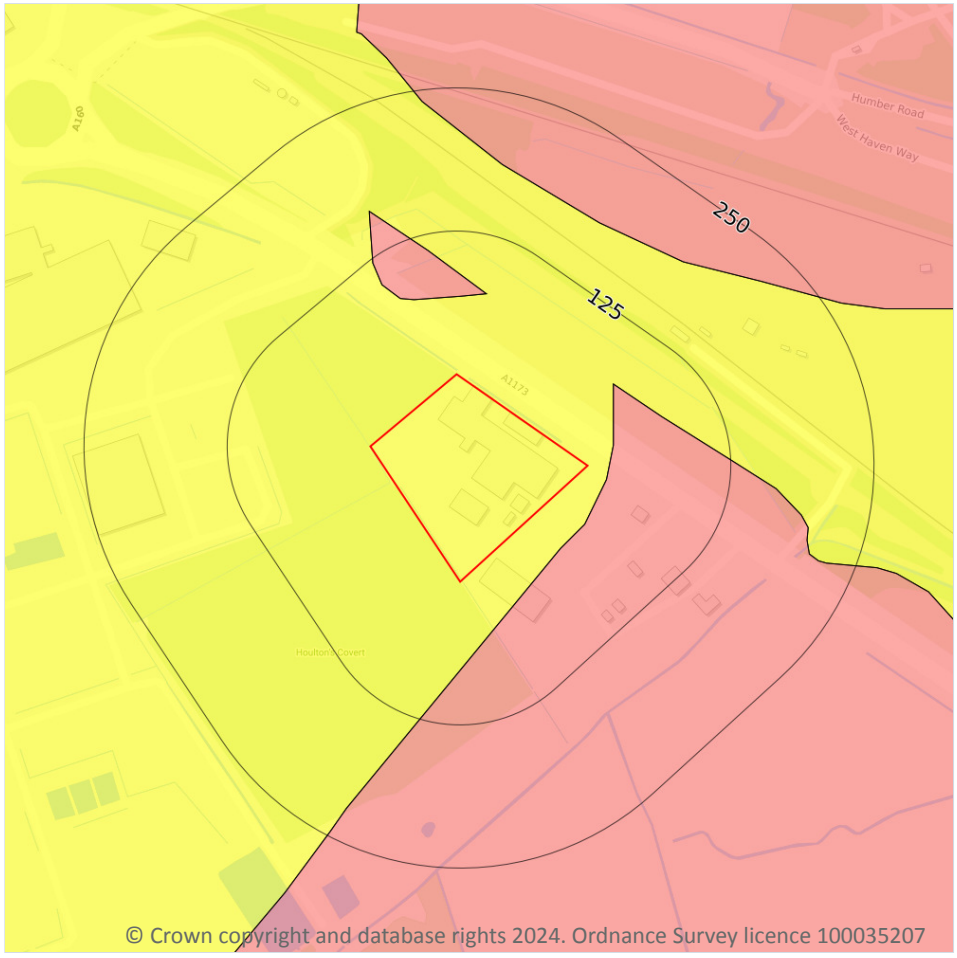
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 90 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
19m E	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

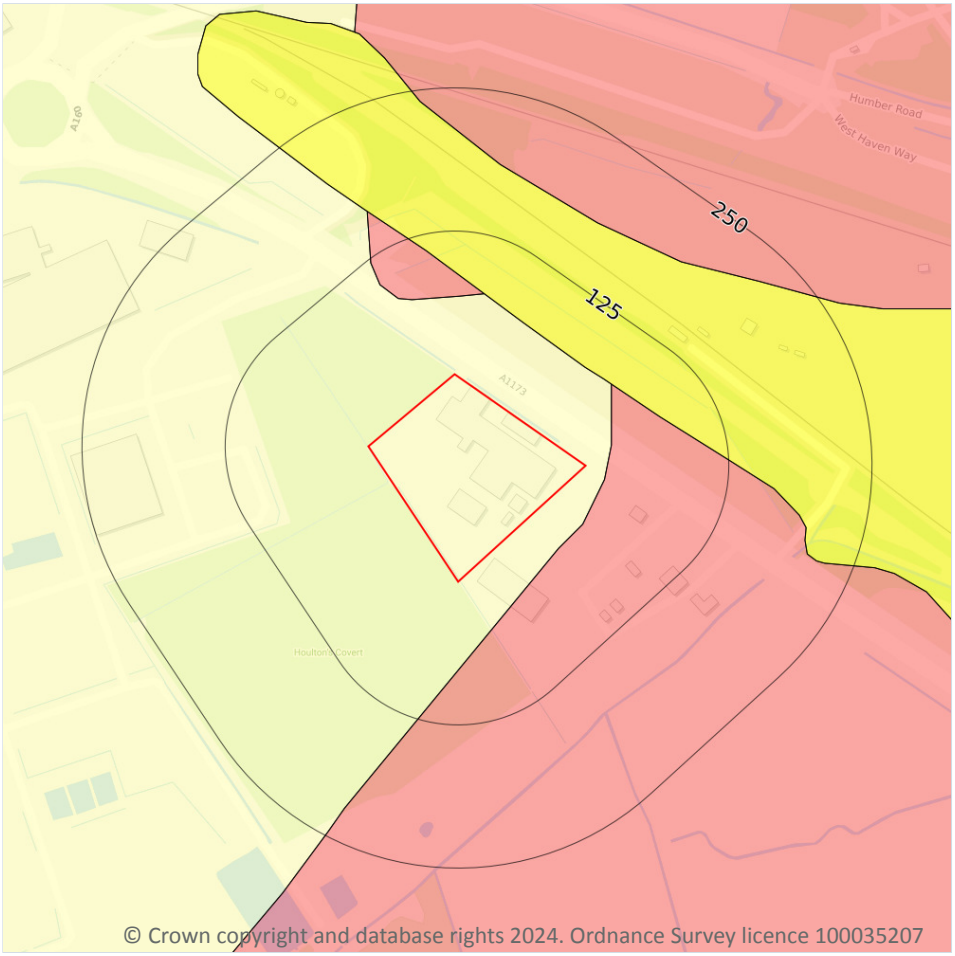
Features are displayed on the Natural ground subsidence - Running sands map on **page 91 >**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

Location	Hazard rating	Details
19m E	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	2

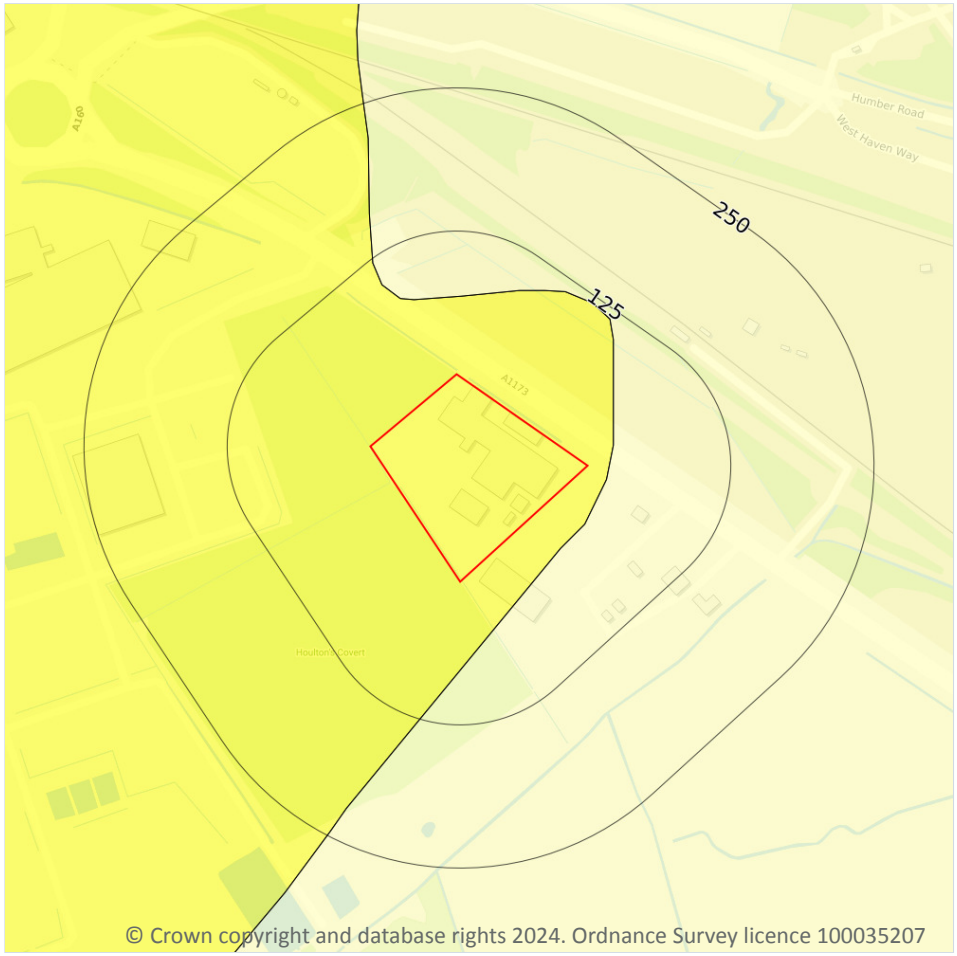
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 92 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
19m E	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	2

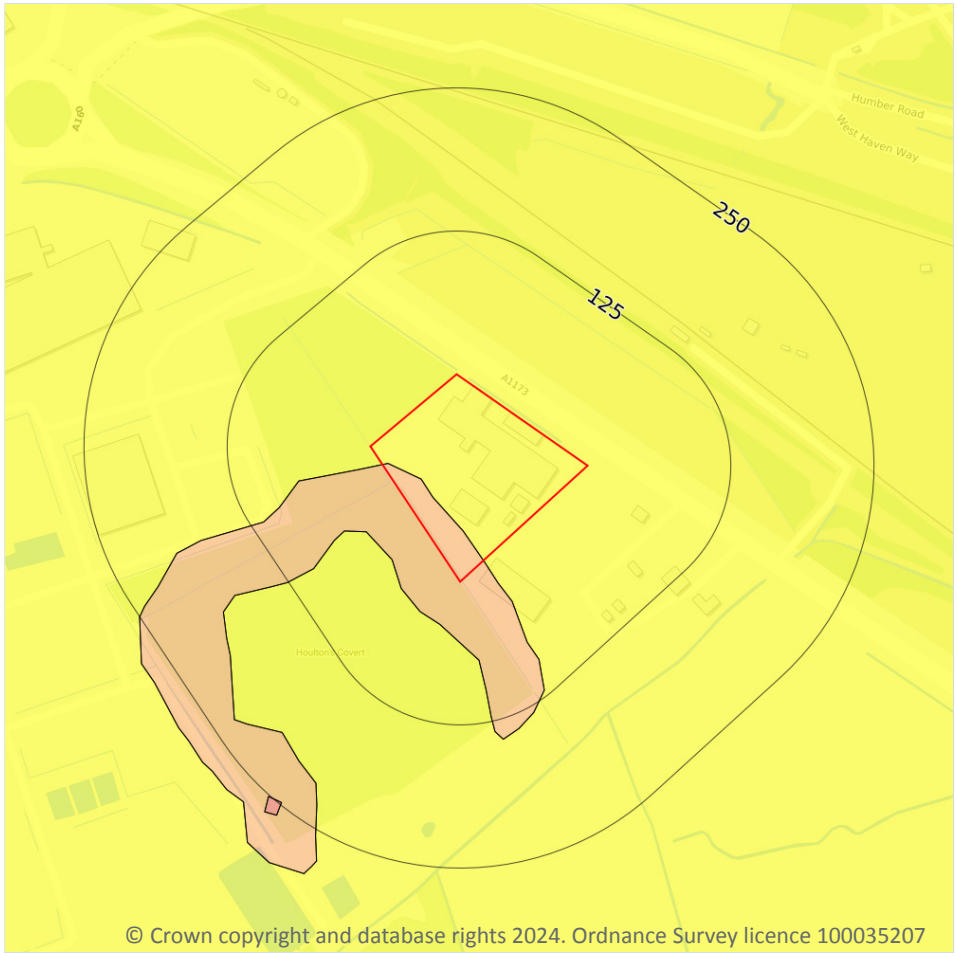
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 93 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
19m E	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

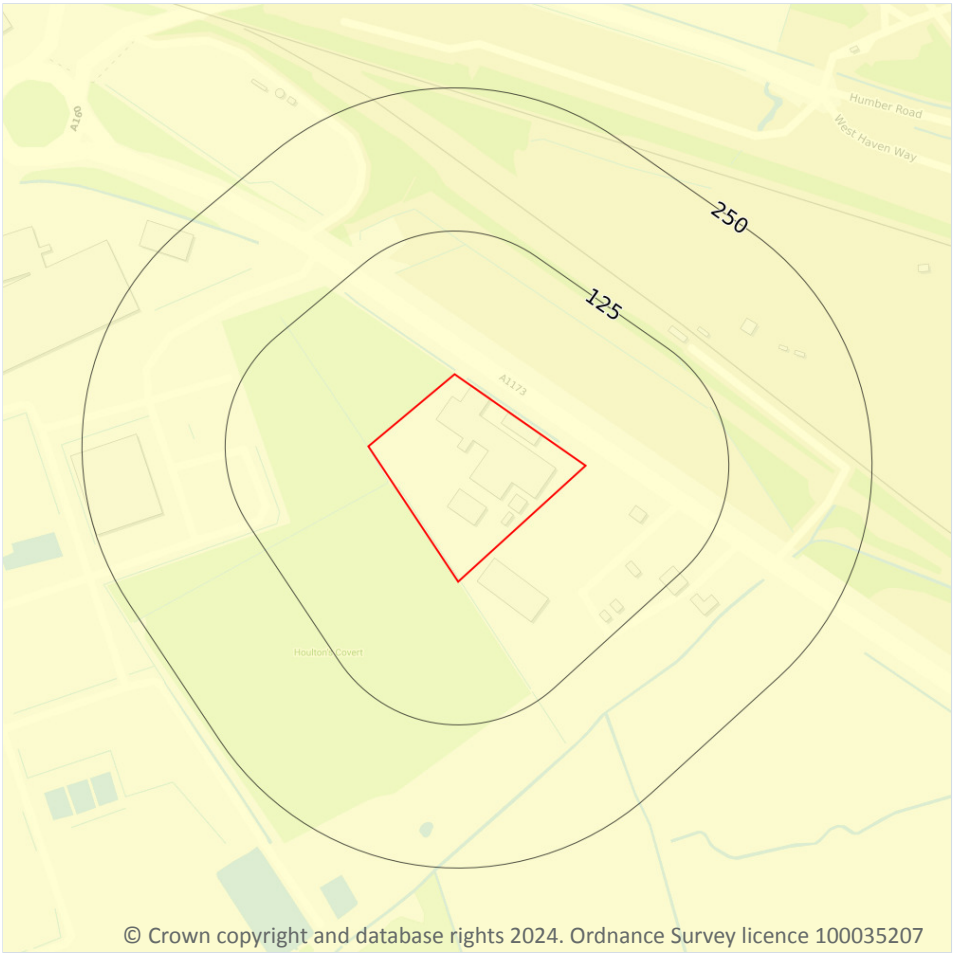
Features are displayed on the Natural ground subsidence - Landslides map on **page 94 >**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

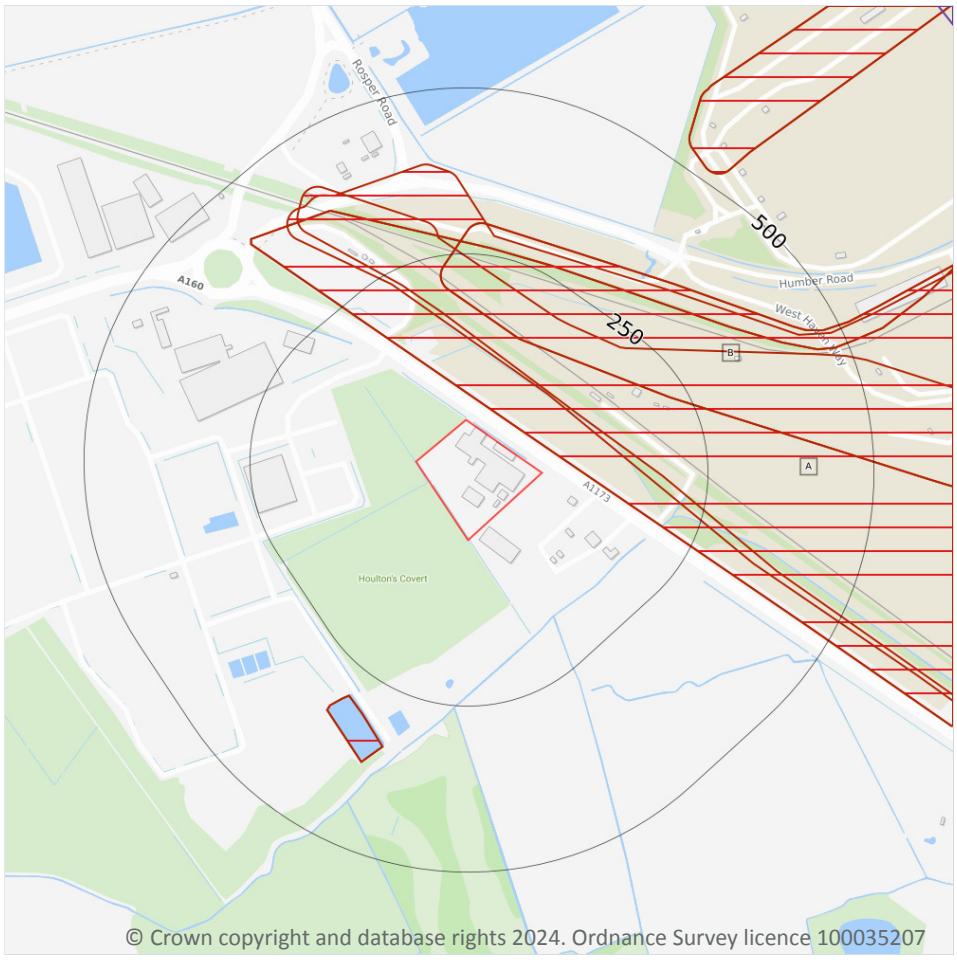
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 95 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	6

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 96 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	34m N	Dock	1947	1:10560
A	34m N	Dock	1947	1:10560
A	97m NE	Docks	1951	1:10560
A	103m NE	Dock	1968	1:10560
B	146m N	Docks	1974	1:10000
B	146m N	Docks	1983	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

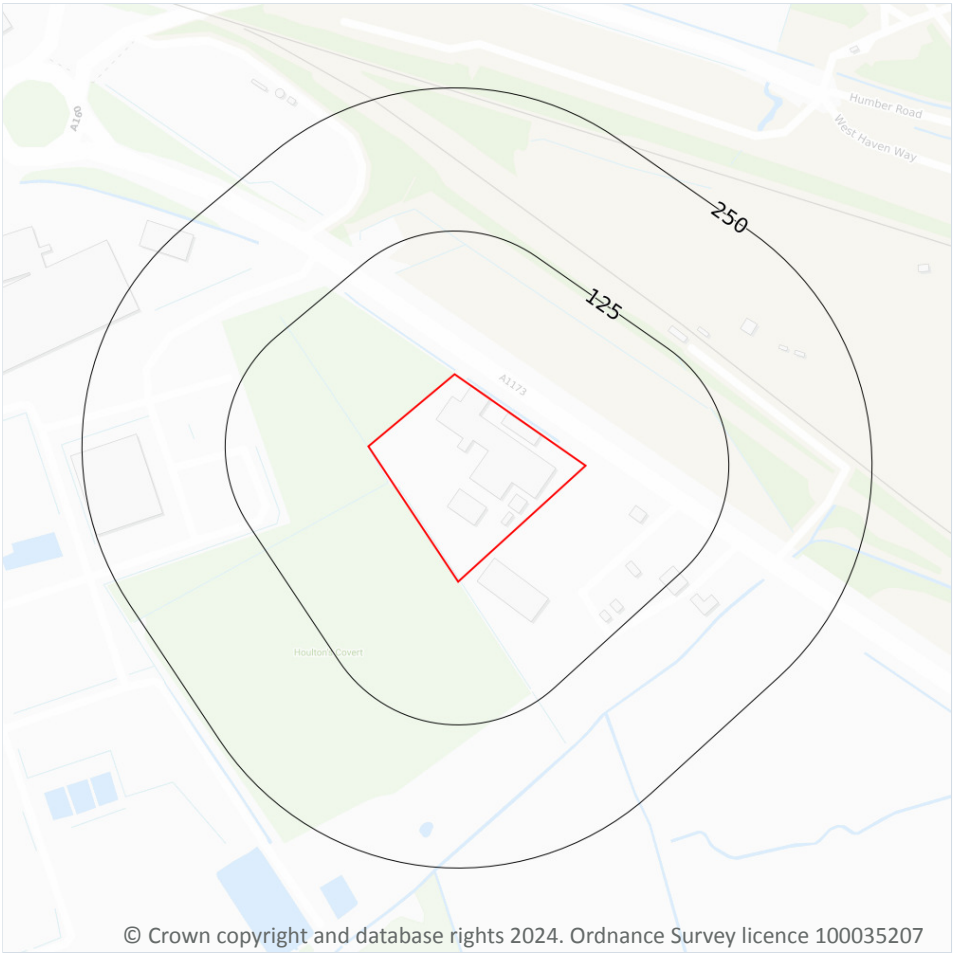
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 102 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
5m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
12m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
24m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

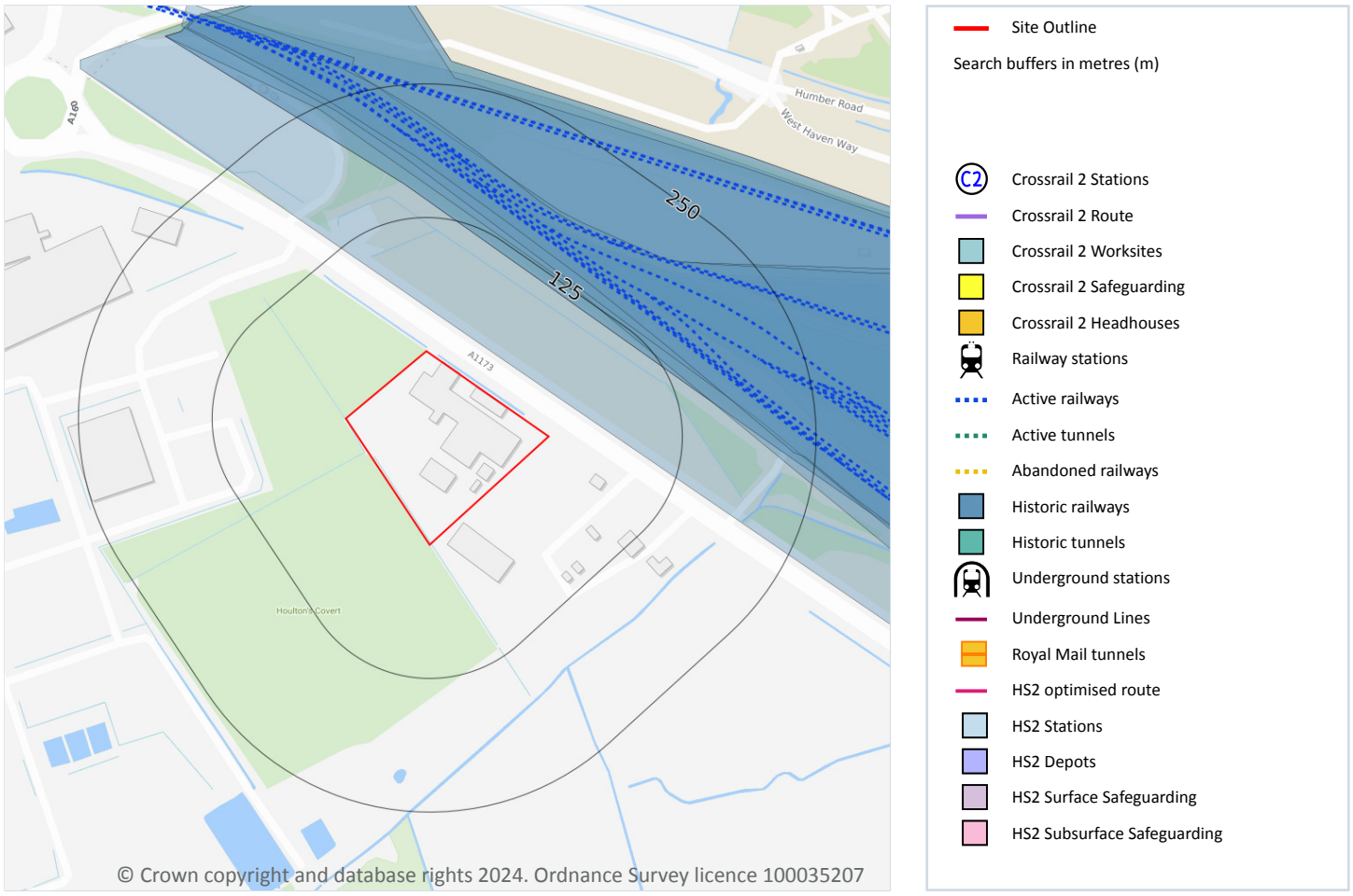
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	12

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 104 >**

Location	Land Use	Year of mapping	Mapping scale
34m N	Railway Sidings	1947	10560
115m NE	Railway Sidings	1974	10000
115m NE	Railway Sidings	1983	10000
122m NE	Railway Sidings	1951	10560
128m NE	Railway Sidings	1968	10560
135m NE	Railway Sidings	1930	10560
150m NE	Railway Sidings	1932	2500
153m NE	Railway Sidings	1973	2500
153m NE	Railway Sidings	1964	2500
153m NE	Railway Sidings	1982	2500
224m NE	Railway Sidings	1982	2500
225m NE	Railway Sidings	1973	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	22

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 104 >**

Location	Name	Type
147m NE	Brocklesby and Immingham Branch	rail
149m NE	Not given	Multi Track
149m NE	Not given	Multi Track
151m NE	Brocklesby and Immingham Branch	rail
151m NE	Not given	Multi Track
157m NE		rail
159m NE		rail
161m N	Shunt Spur	rail
162m NE		rail
165m N		rail
169m N	Not given	Multi Track
169m N		rail

Location	Name	Type
179m N		rail
182m NE		rail
185m E	Not given	Multi Track
205m N	Not given	Single Track
209m E		rail
212m N	Brocklesby and Immingham Branch	rail
227m E		rail
231m N	Killingholme Branch	rail
234m N	Not given	Multi Track
234m N	Killingholme Branch	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

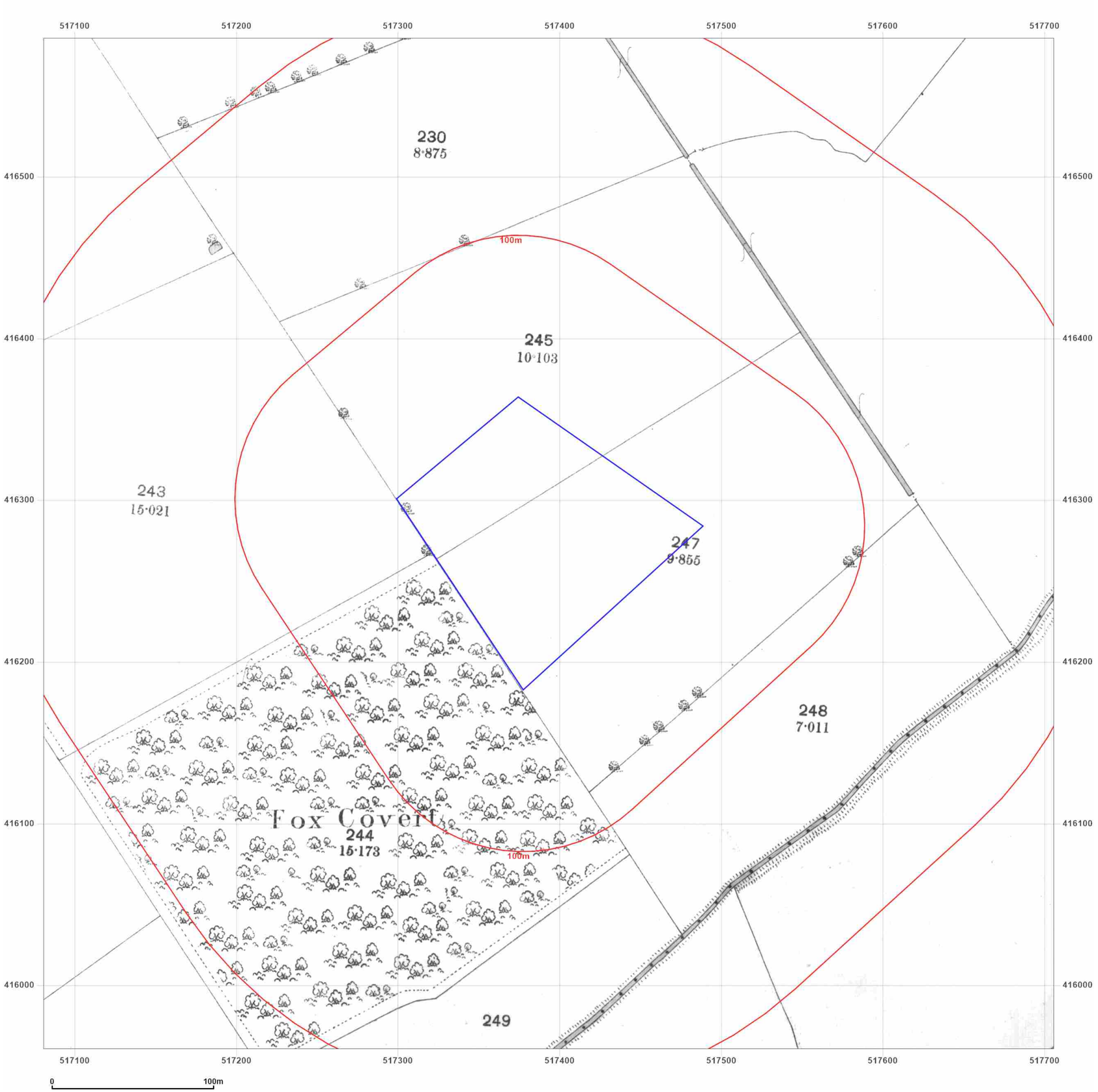
This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1887**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1887
Revised 1887
Edition N/A
Copyright N/A
Levelled N/A

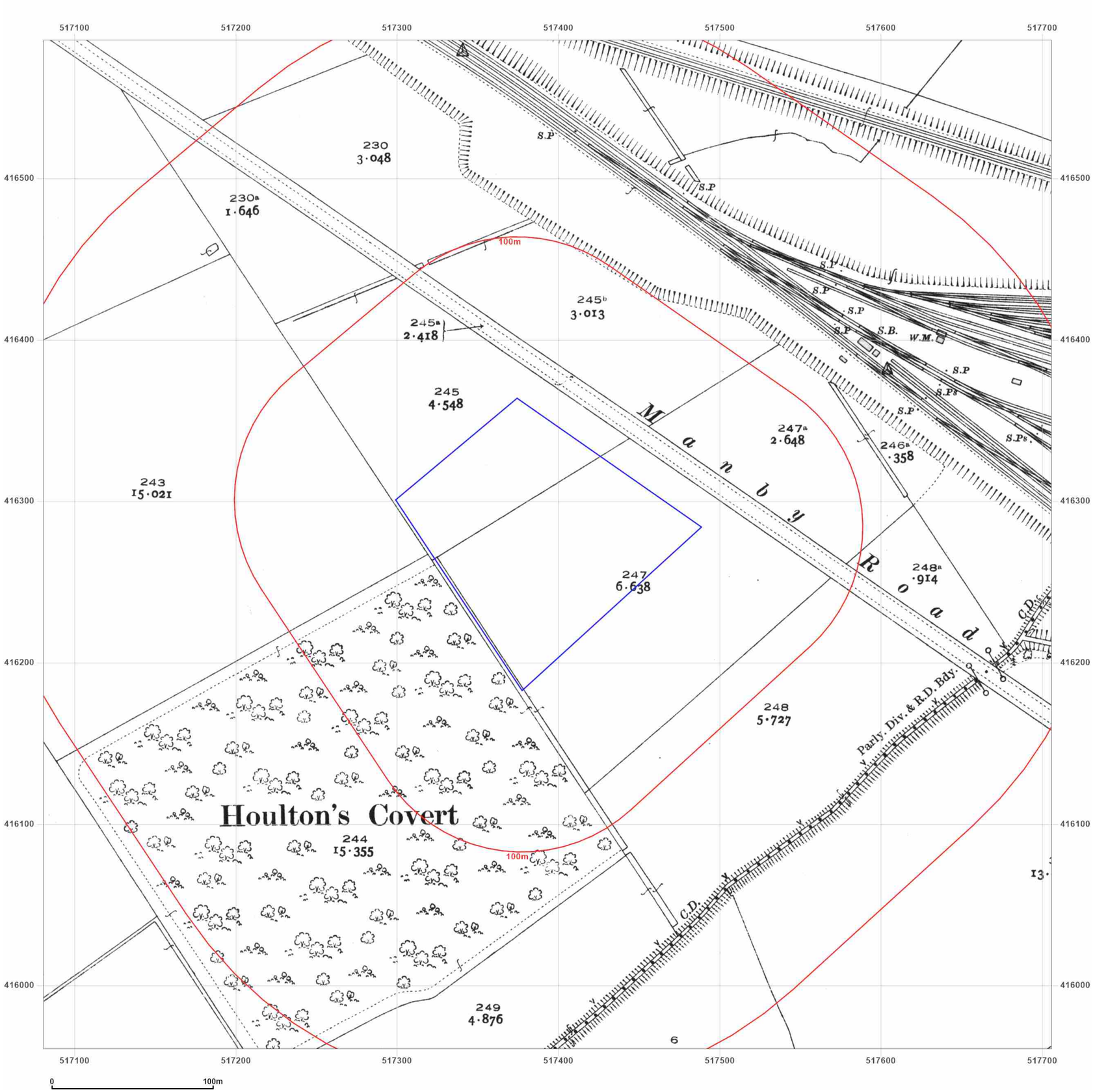
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Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1932**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
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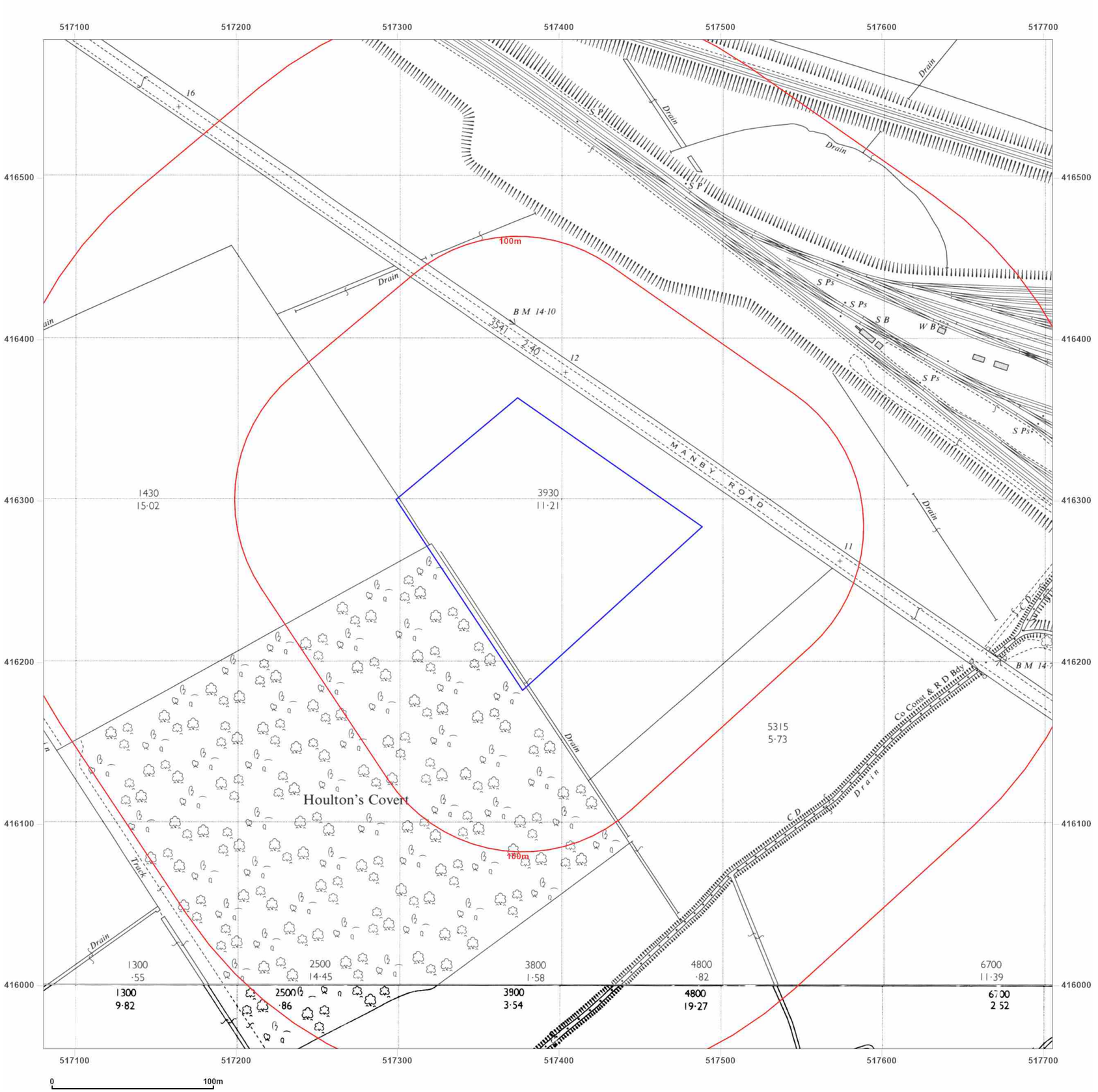
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Client Ref: PO21
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Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1964
Levelled 1951

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

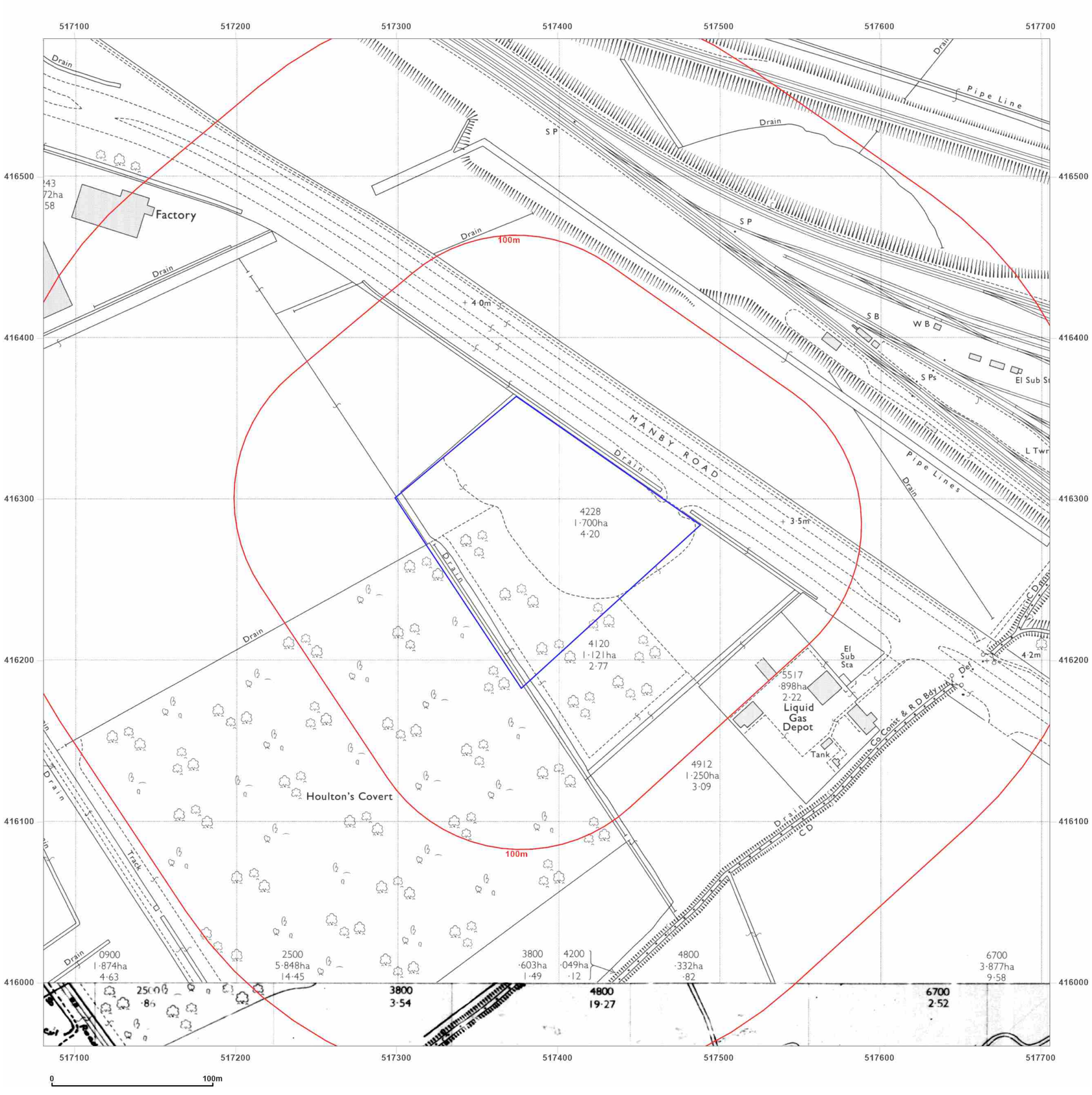
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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1972
Edition N/A
Copyright 1973
Levelled 1969

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

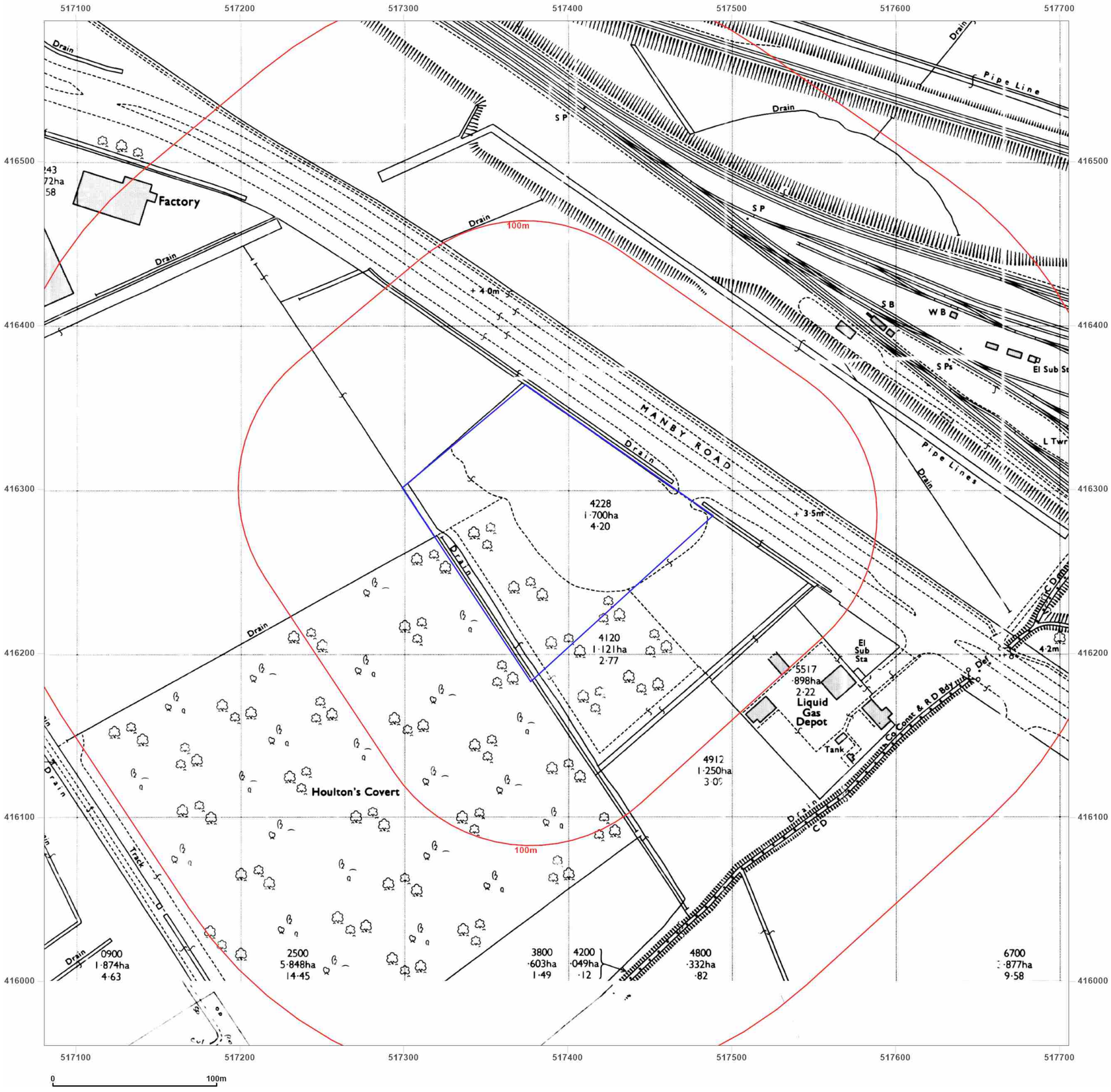
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Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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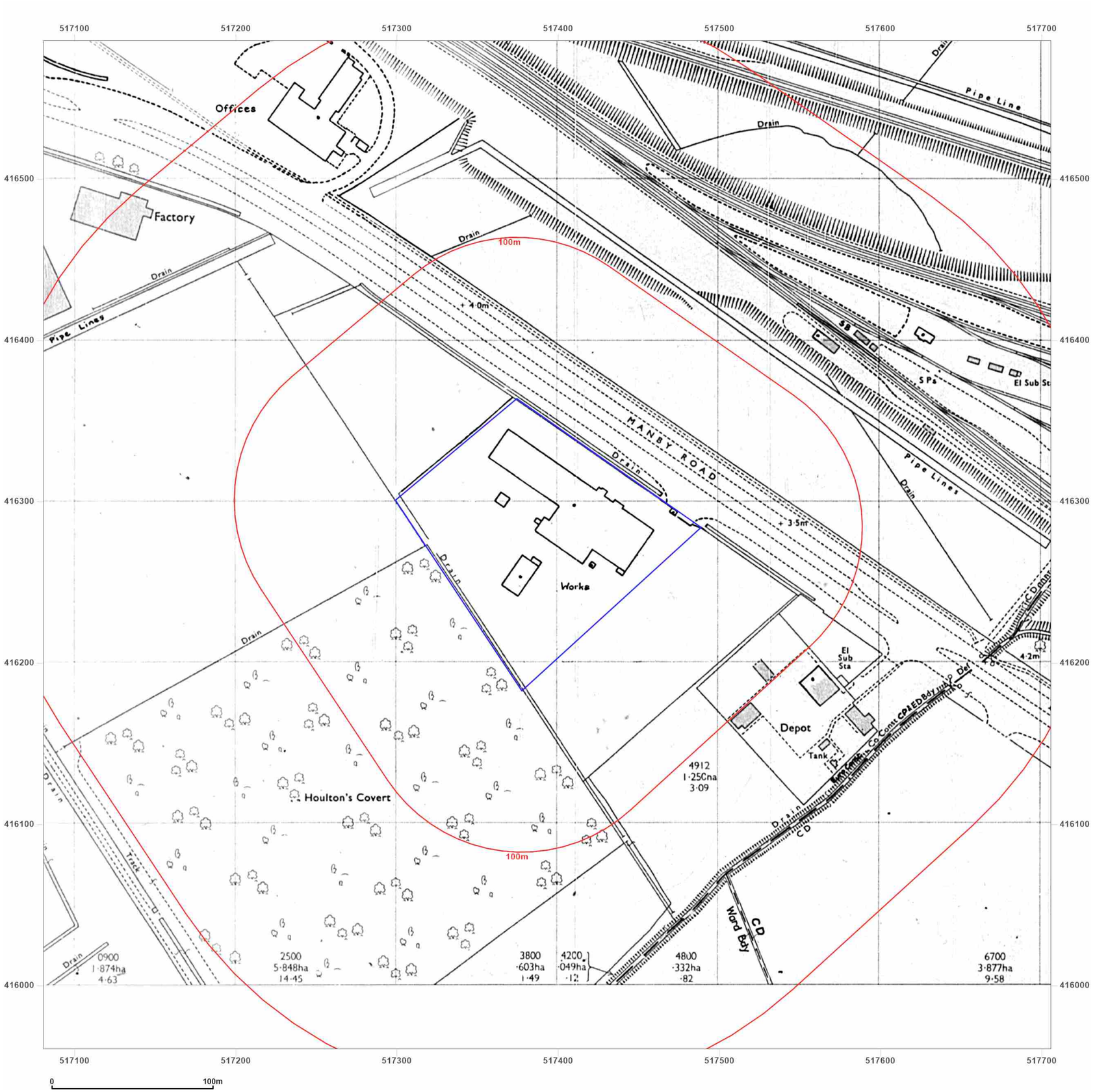
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1982**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1969
Revised 1982
Edition N/A
Copyright 1982
Levelled 1969

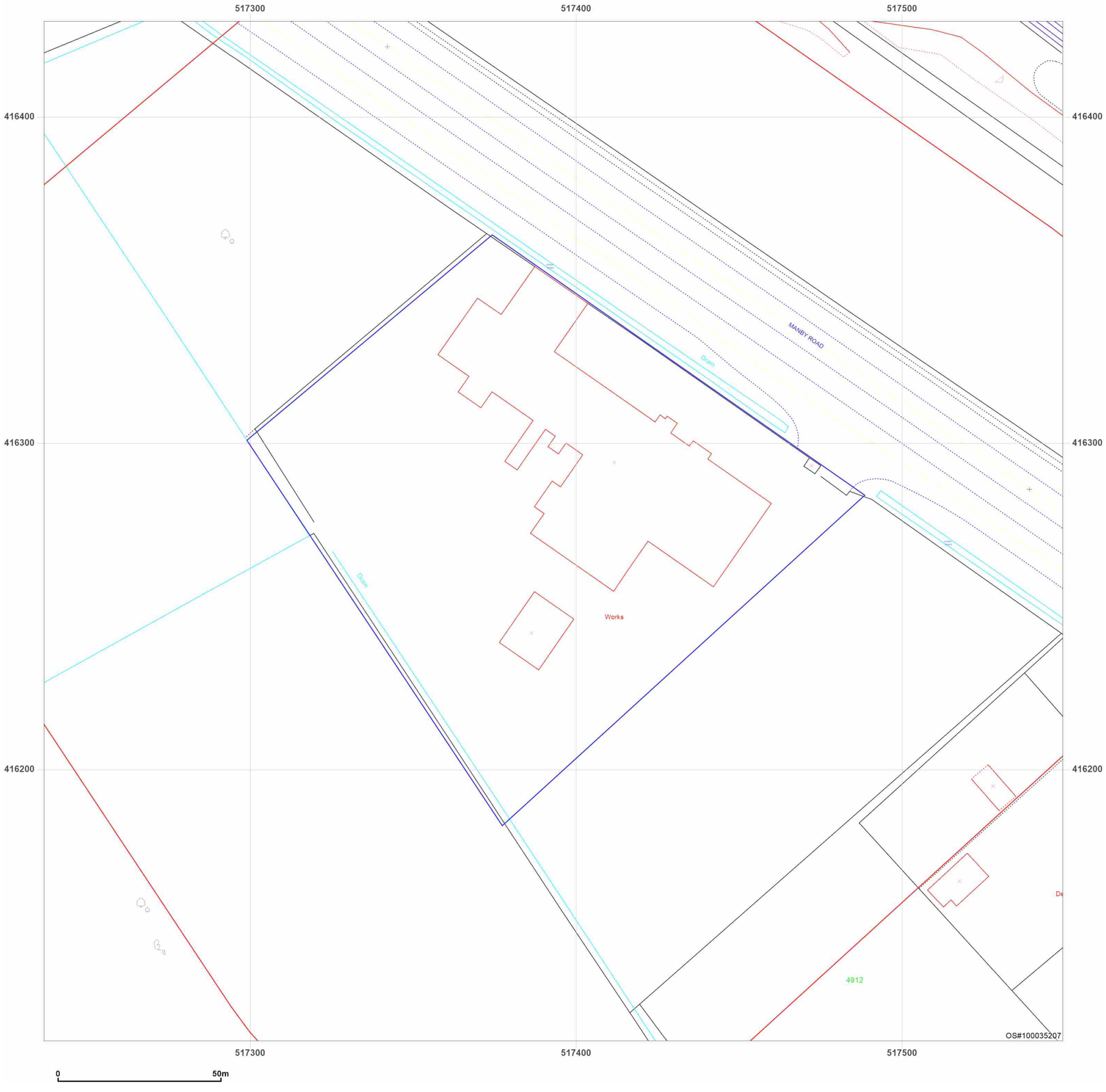
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Scale: 1:1,250
Printed at: 1:1,250

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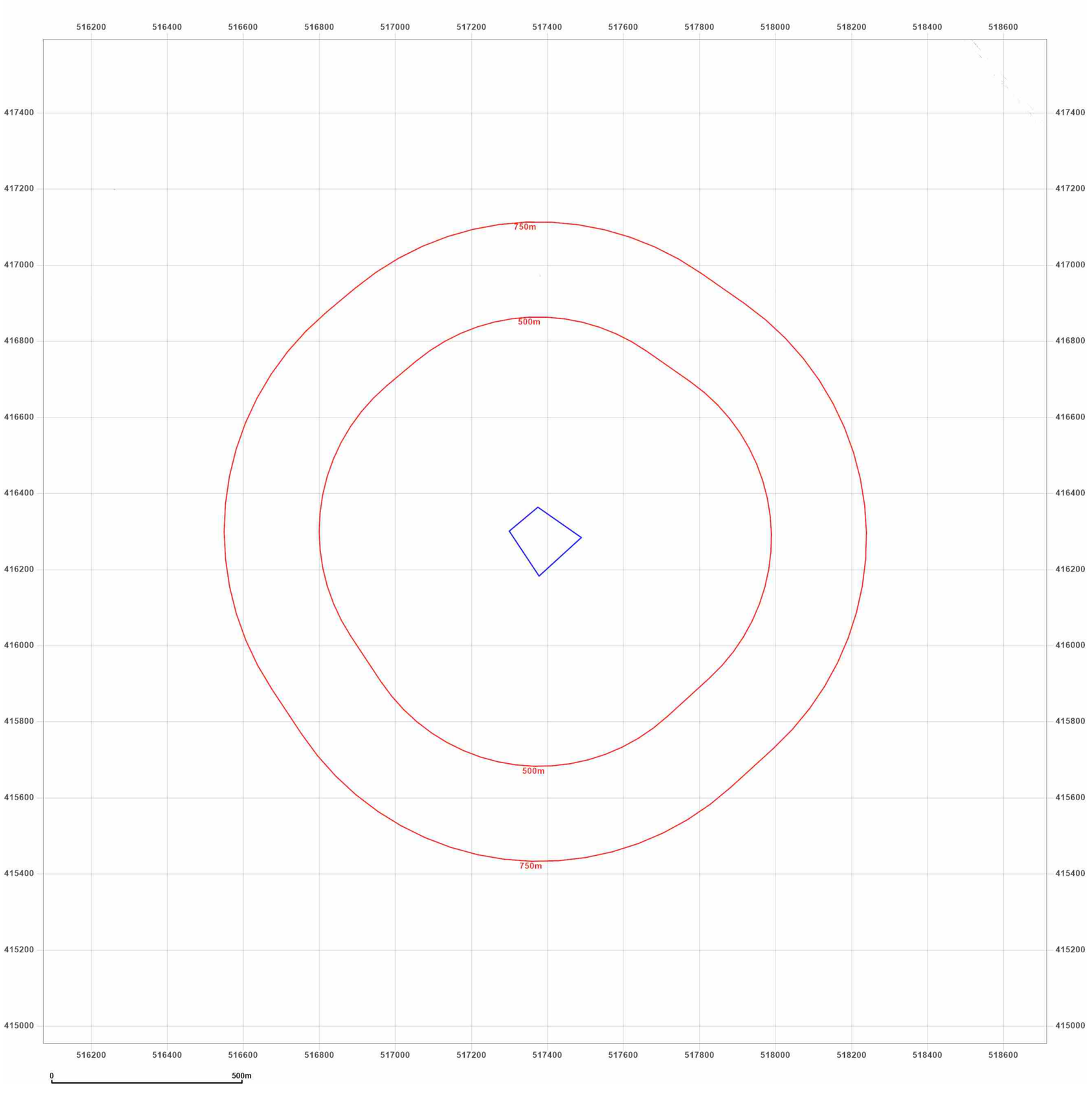
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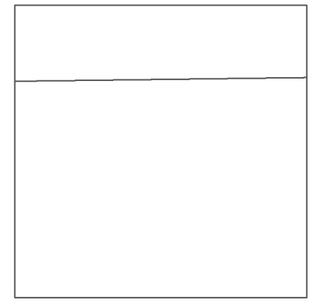
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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1854**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed N/A
Revised N/A
Edition N/A
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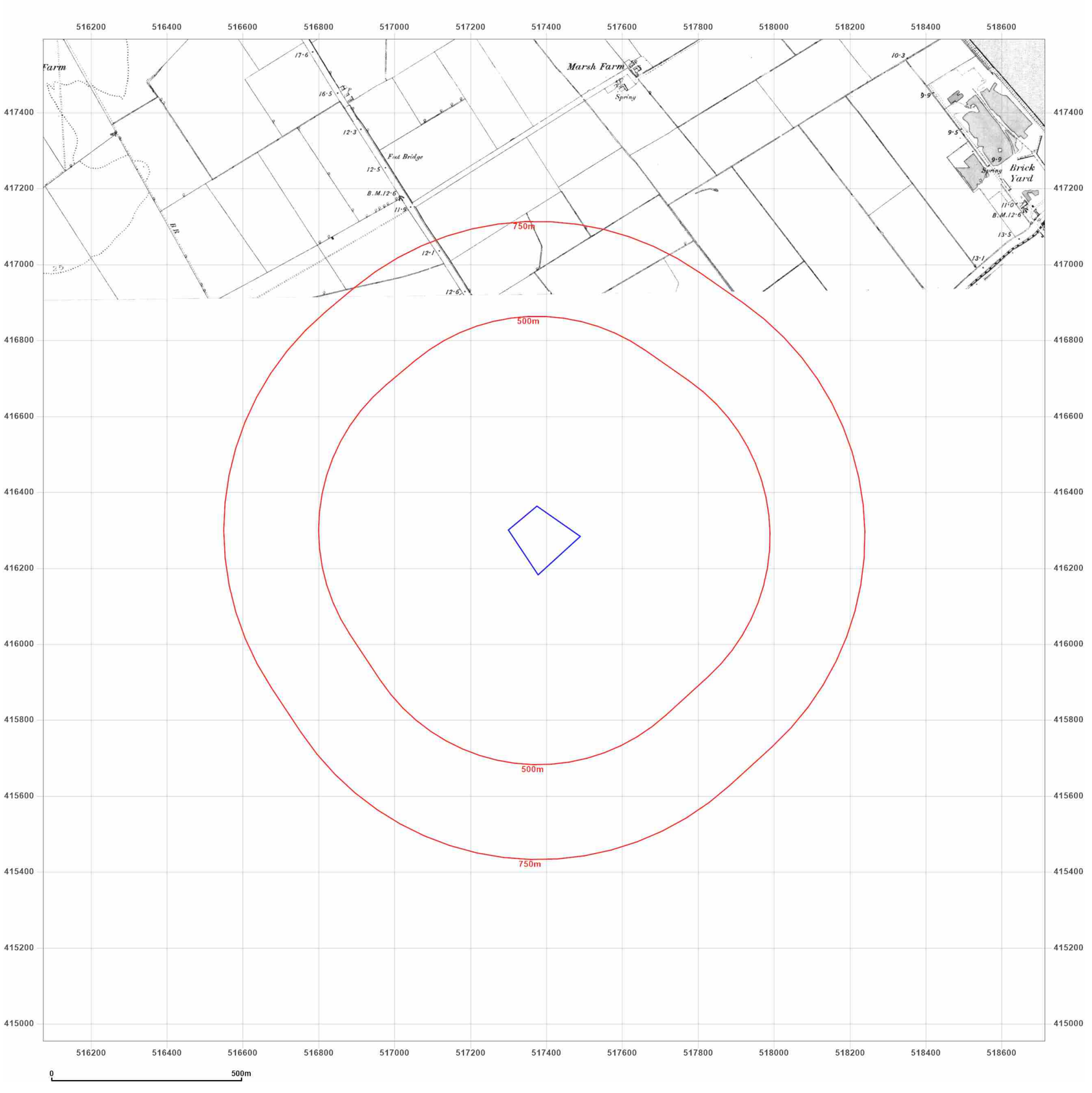
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Map Name: County Series

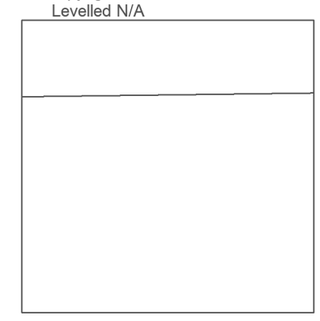
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Scale: 1:10,560

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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



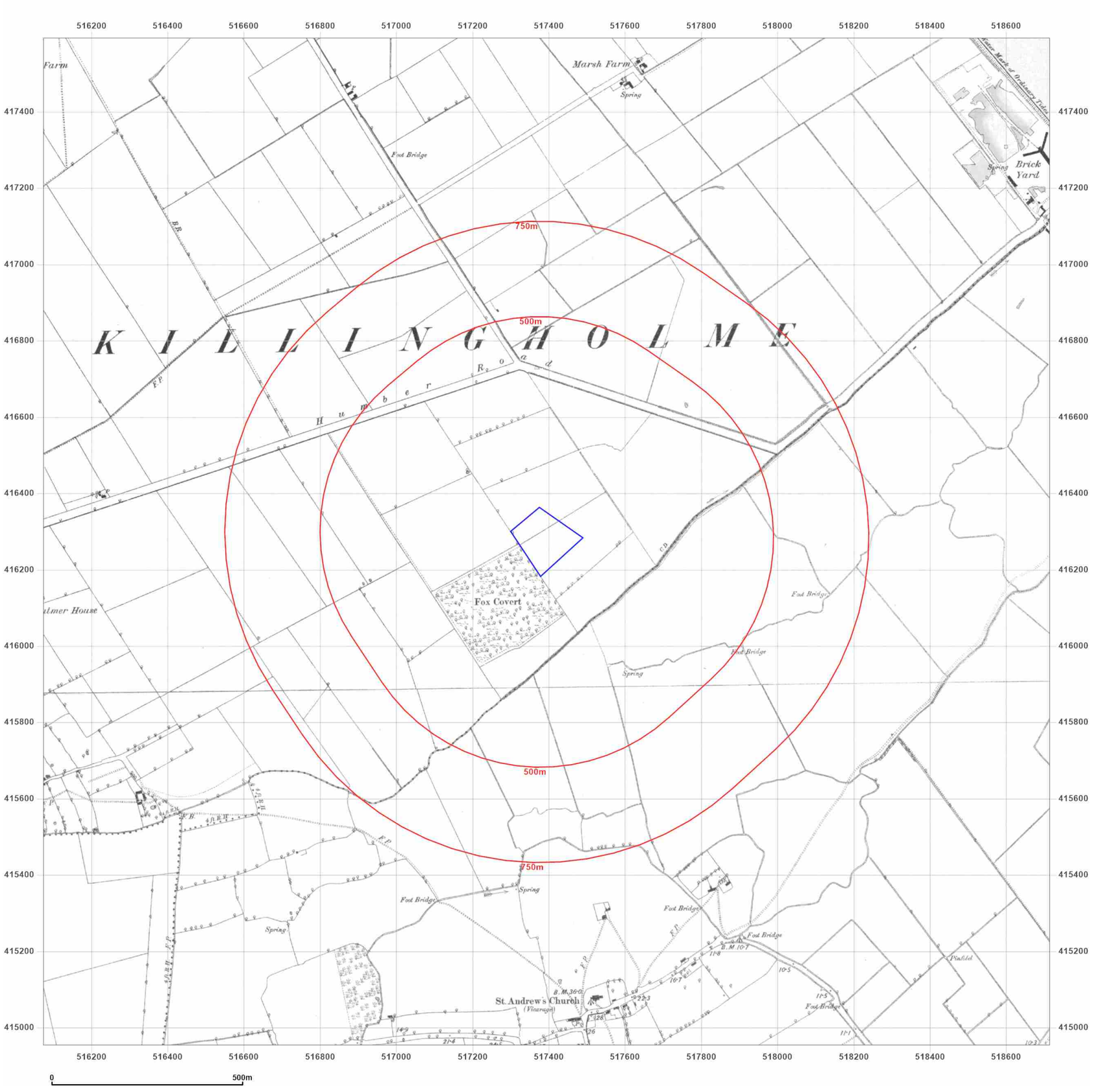
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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1886**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
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Surveyed 1886
Revised 1886
Edition N/A
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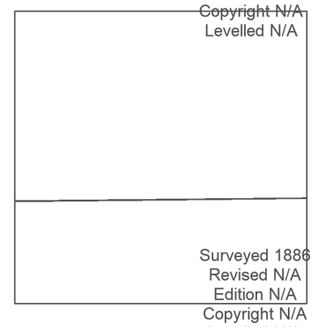
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Surveyed 1886
Revised N/A
Edition N/A
Copyright N/A
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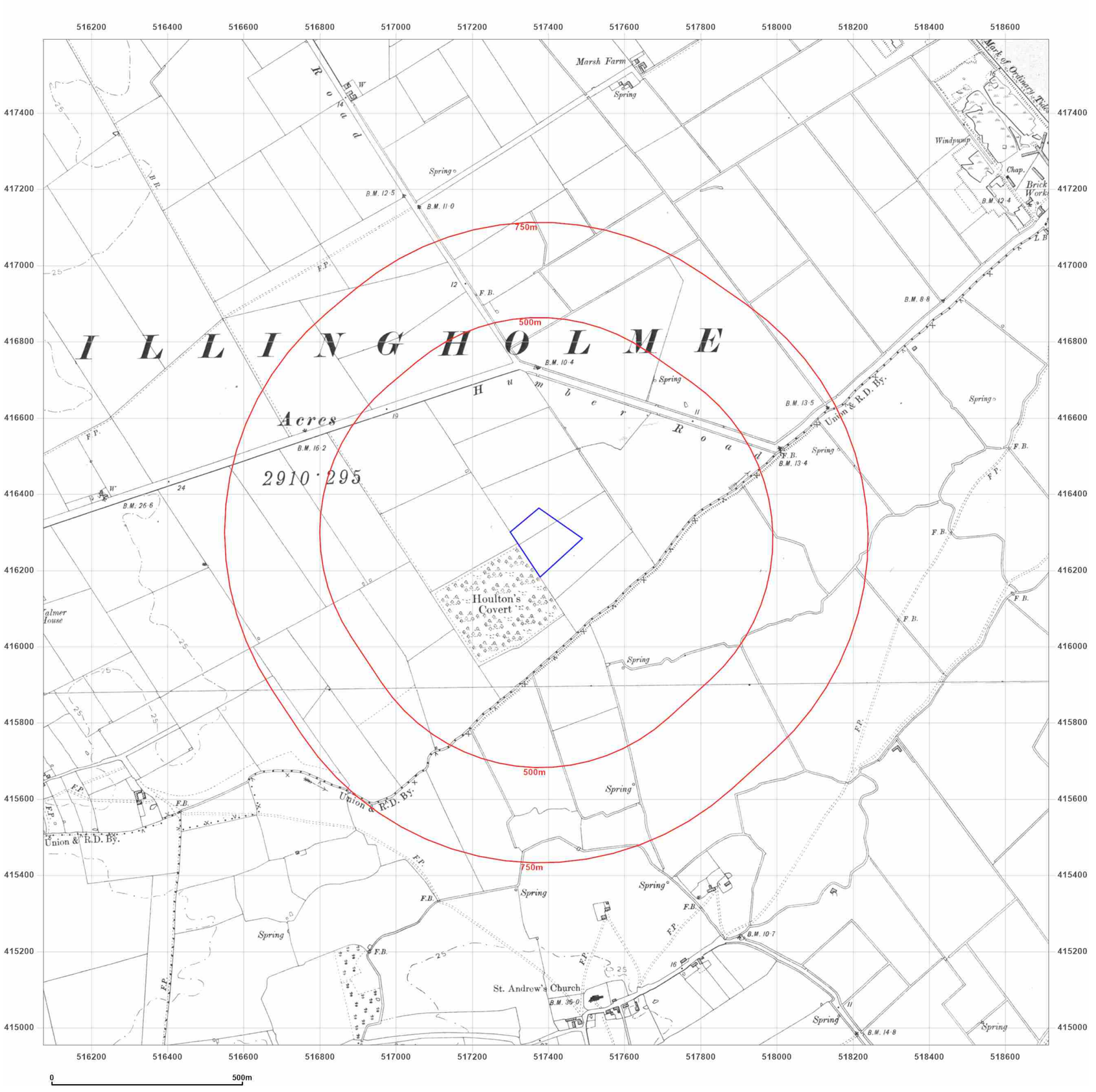
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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1905-1906**
Scale: 1:10,560
Printed at: 1:10,560

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Revised 1906
Edition N/A
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Levelled N/A

Surveyed 1886
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

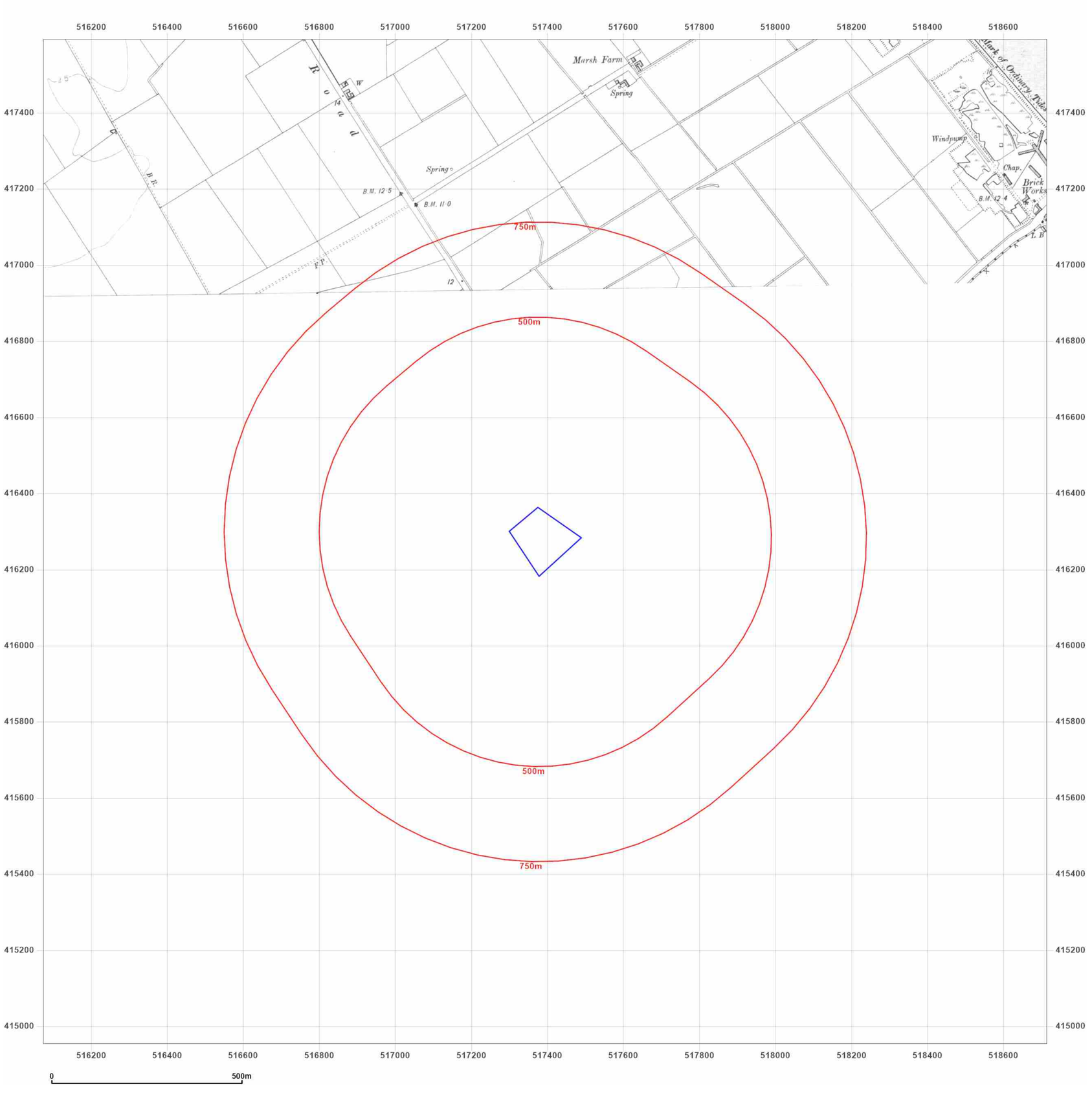
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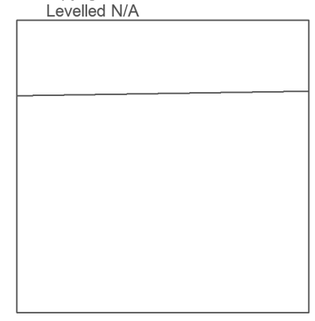
SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1910**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1853
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A



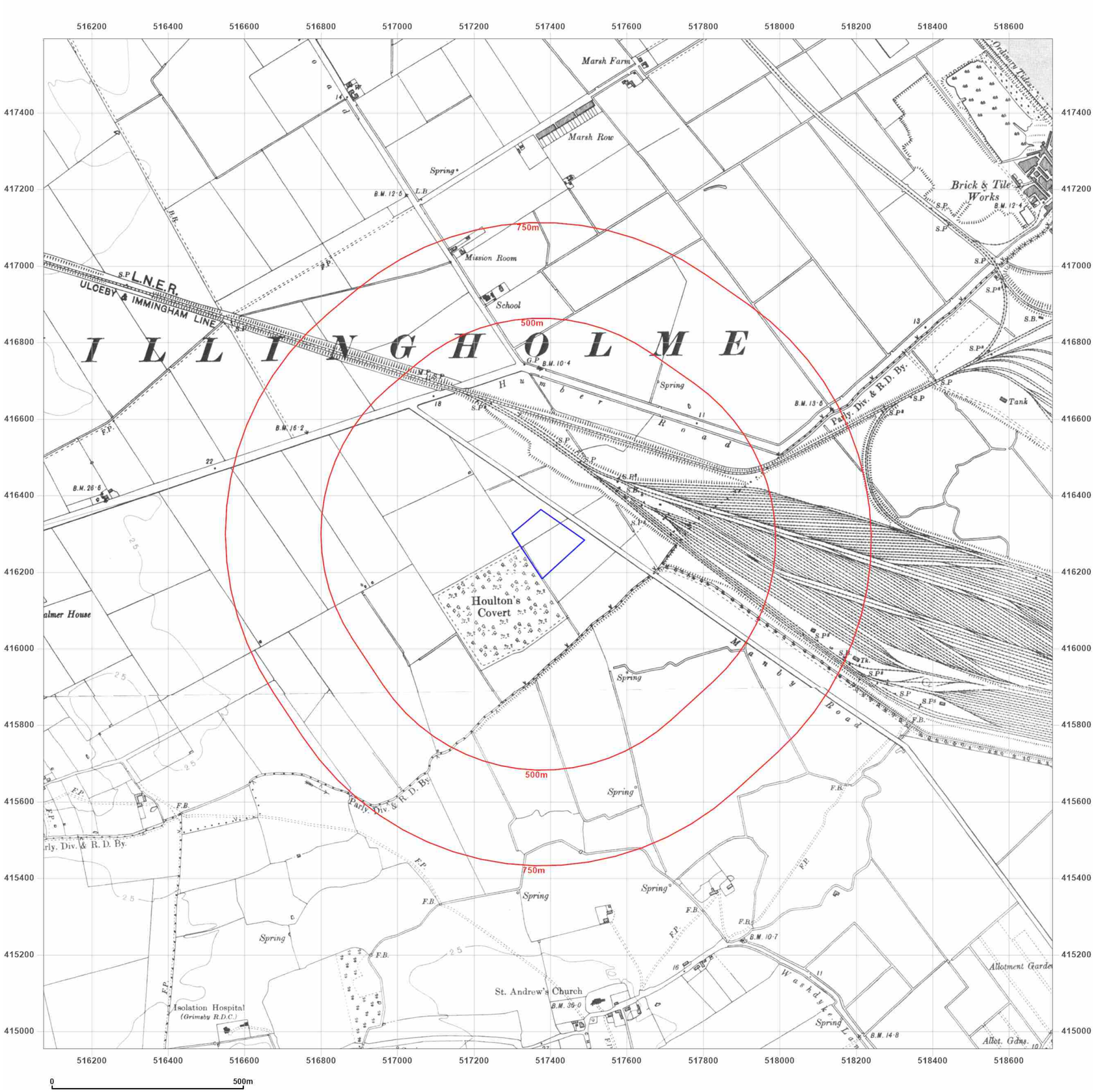
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1930**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

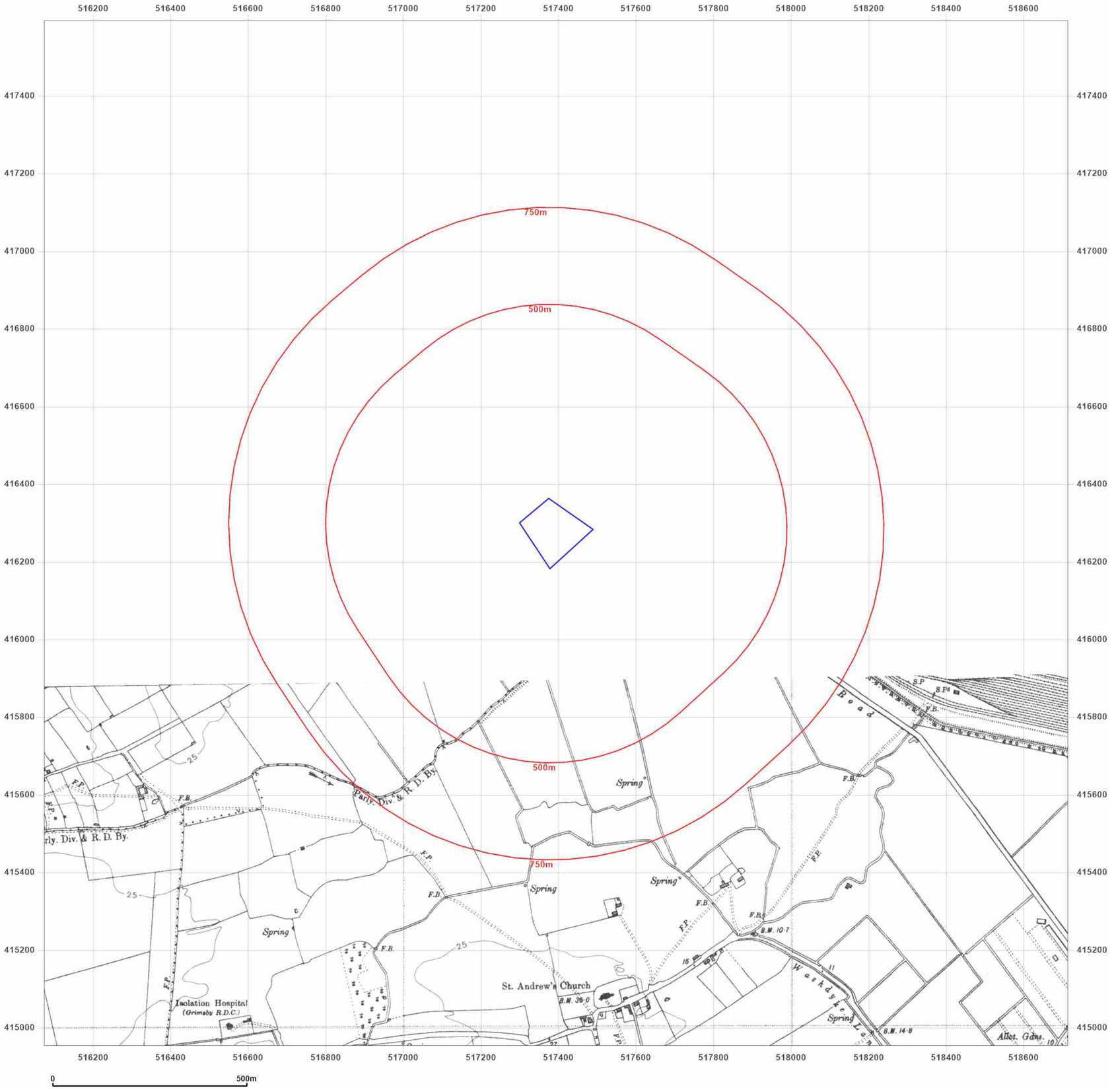
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1930**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

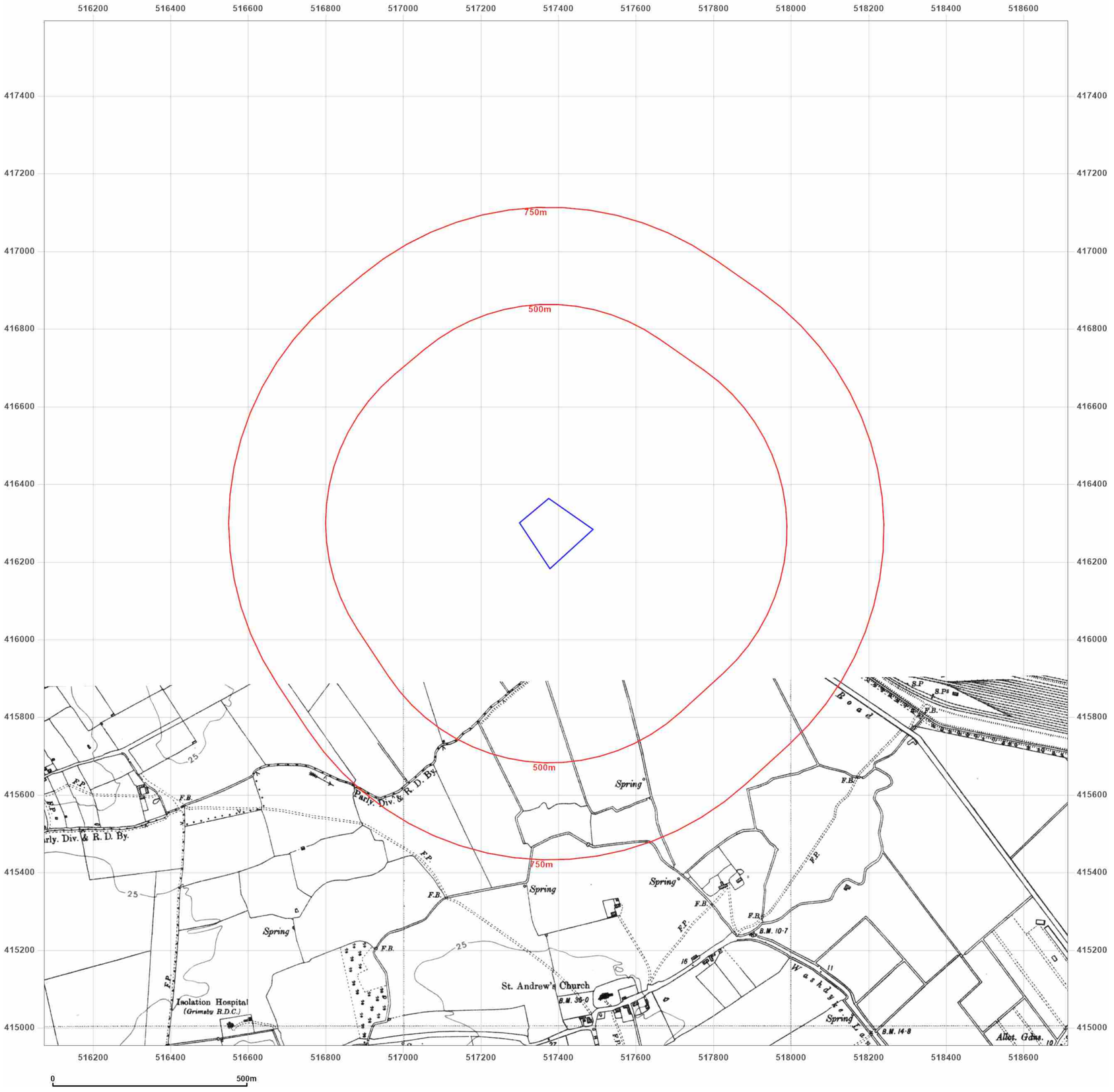
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

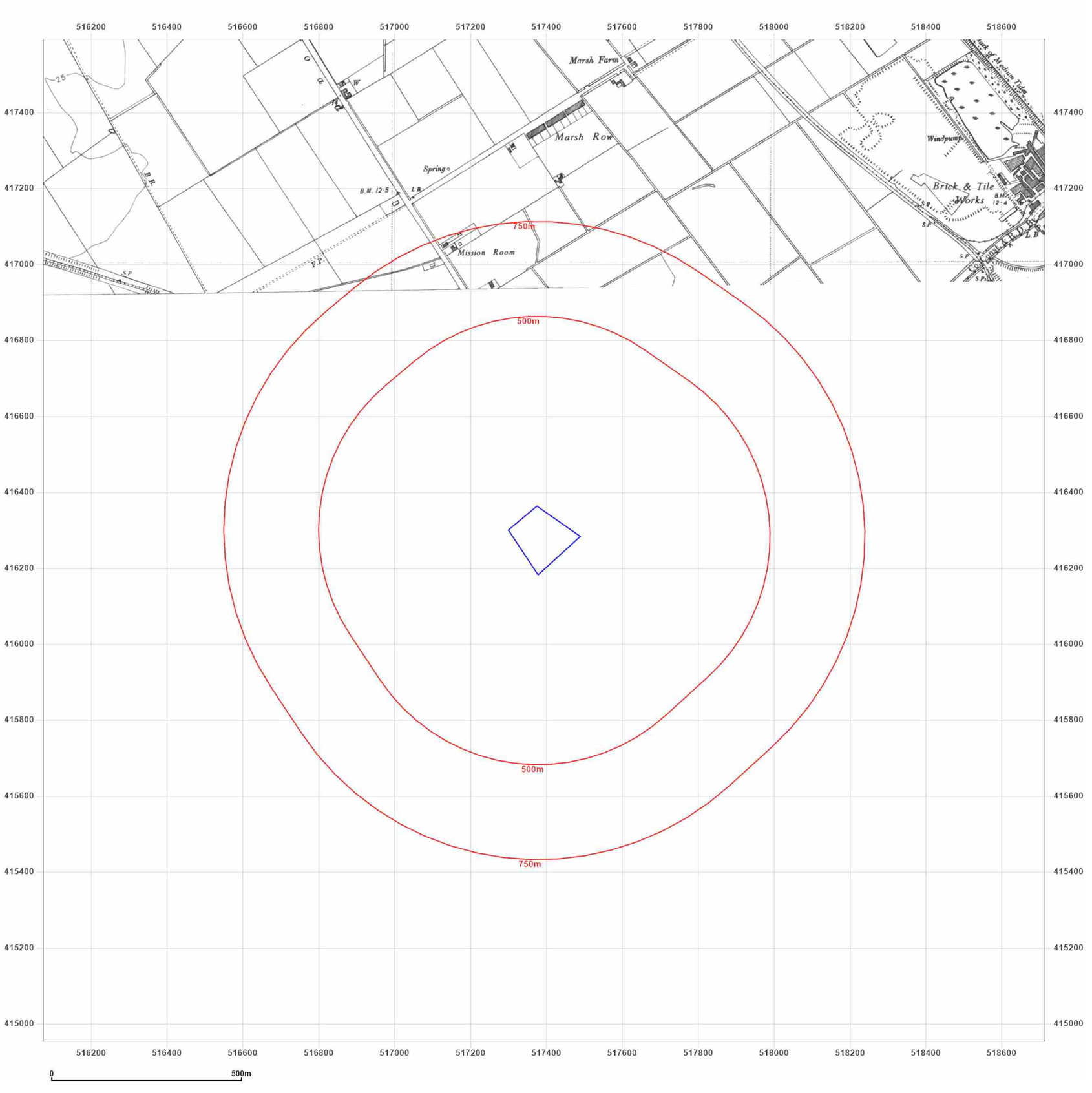
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

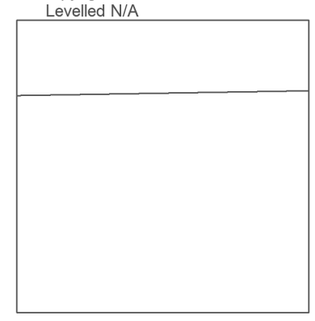
Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1853
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A



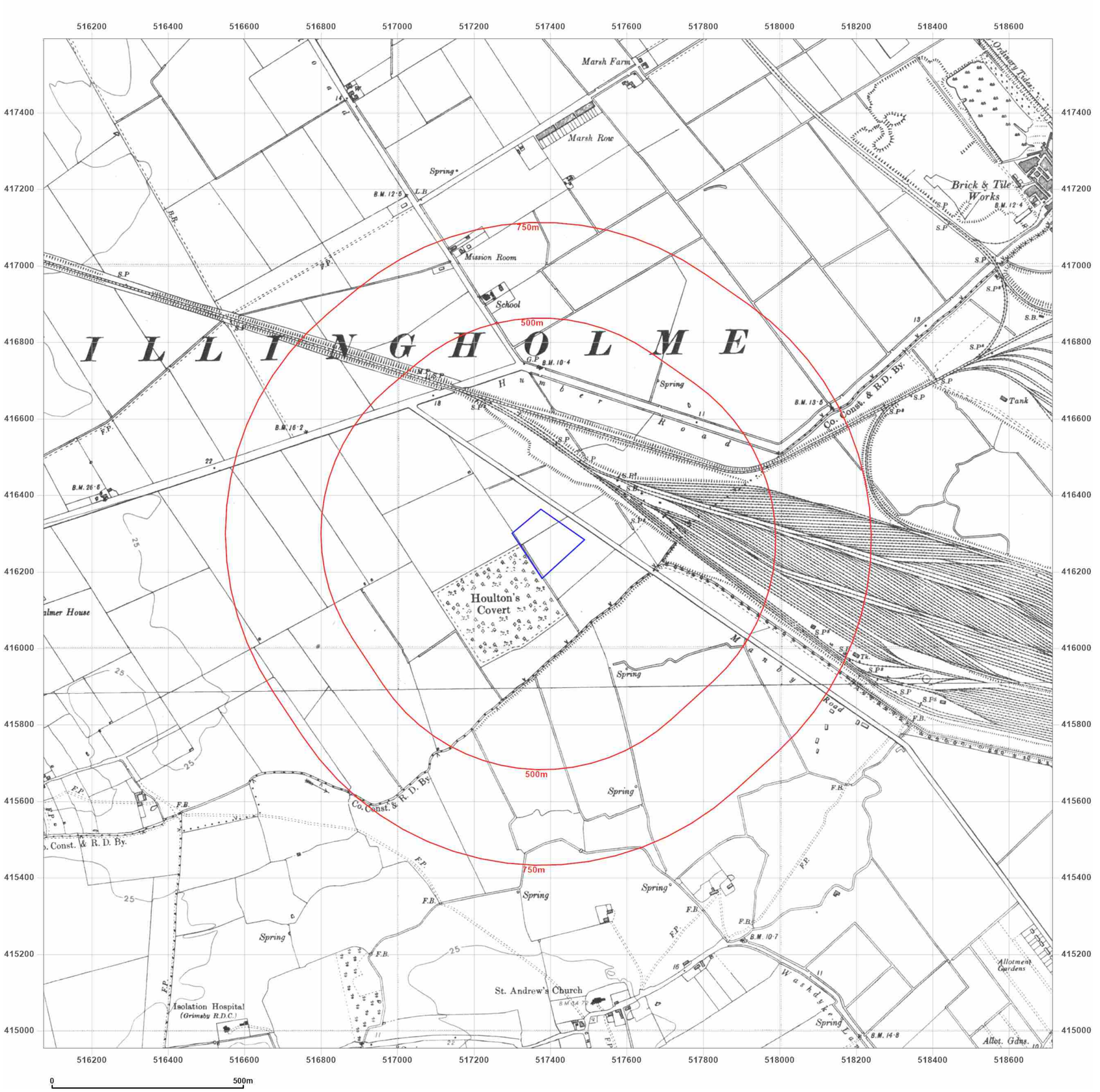
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1947-1951**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1886
Revised 1947
Edition 1947
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1947
Edition N/A
Copyright 1951
Levelled 1906

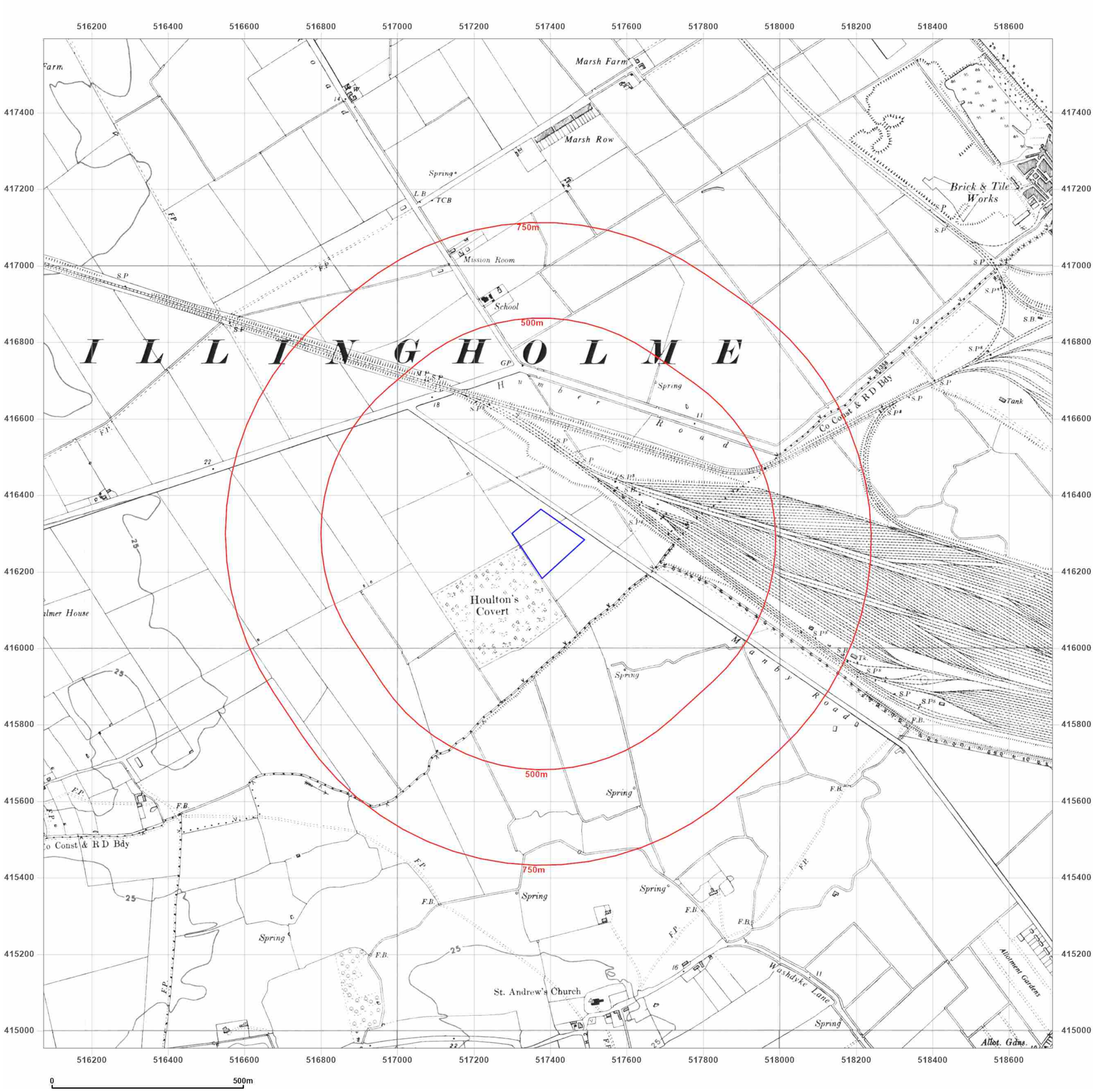
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional
Map date: **1951**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

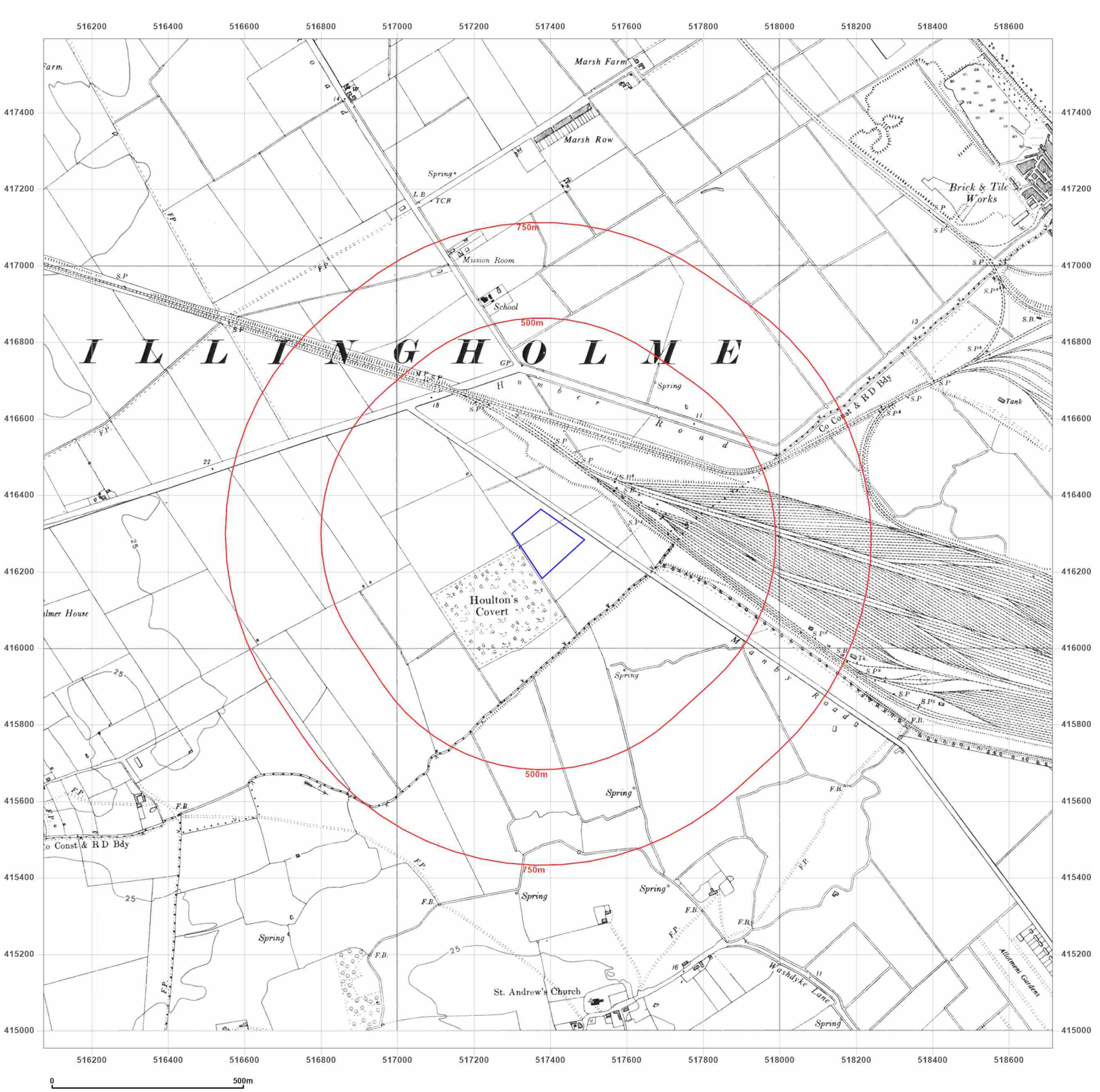
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional

Map date: **1951**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

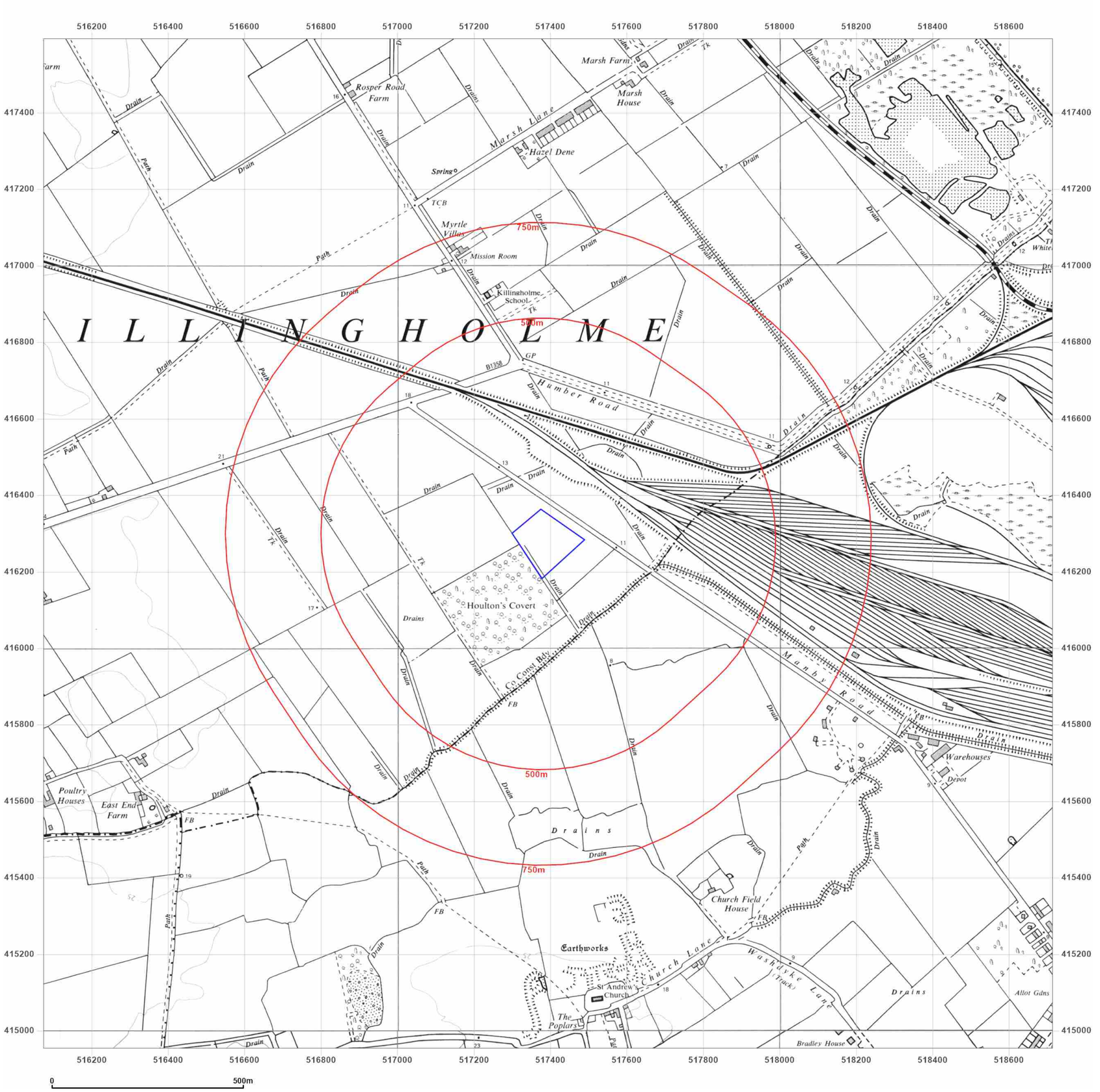
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional
Map date: **1968**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

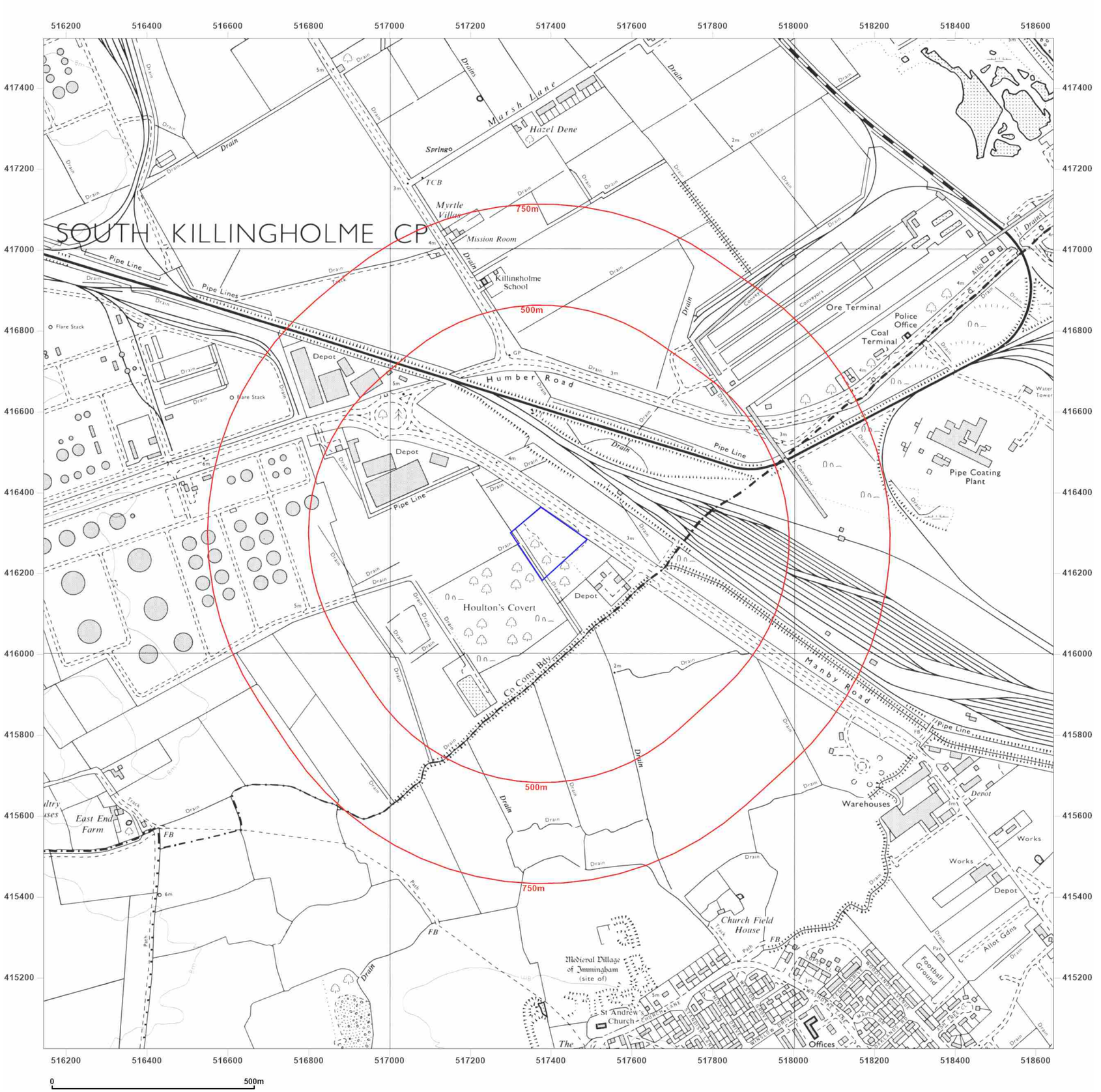
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **1974**
Scale: 1:10,000
Printed at: 1:10,000

N
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Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

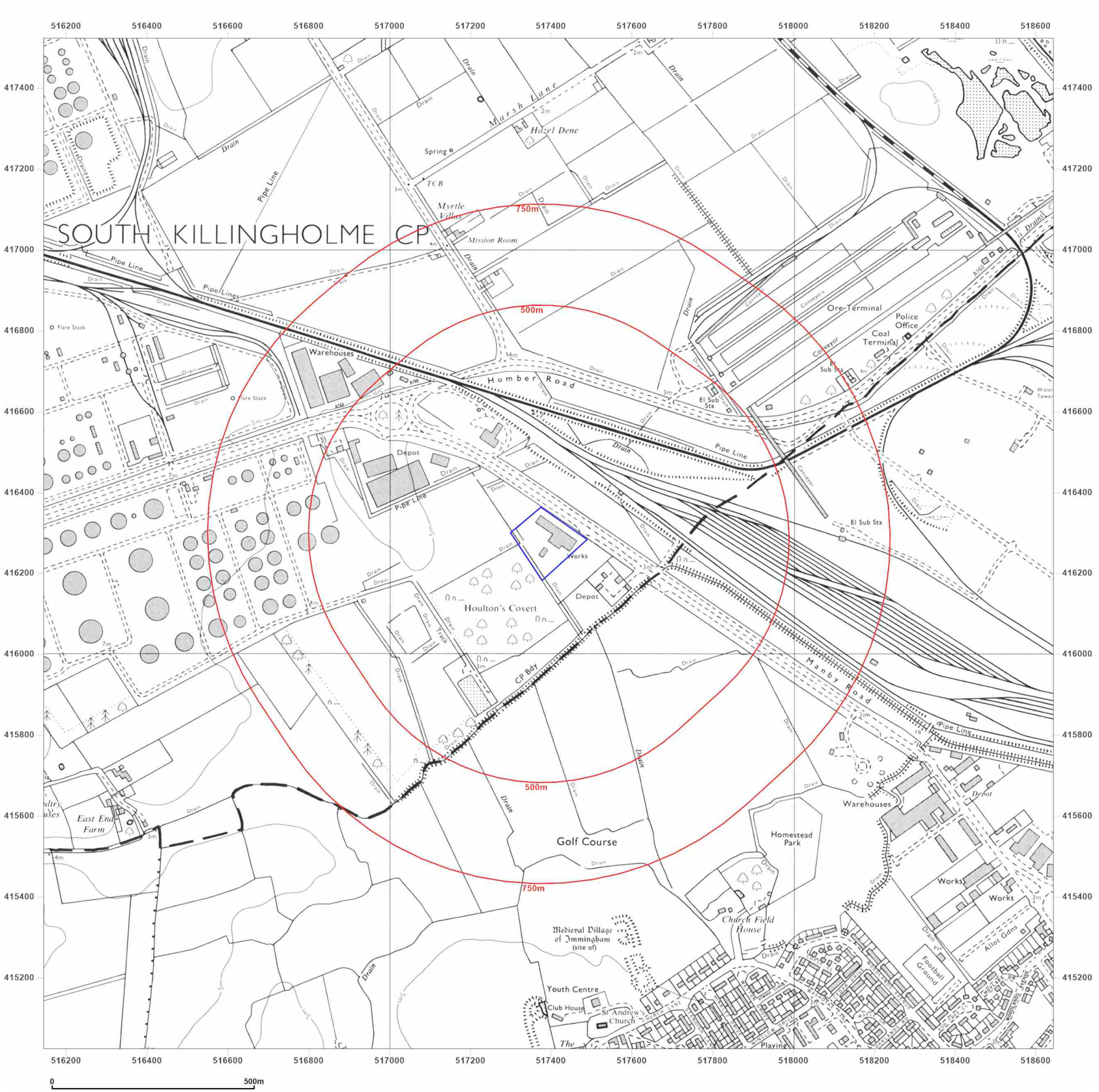
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1983**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1975
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

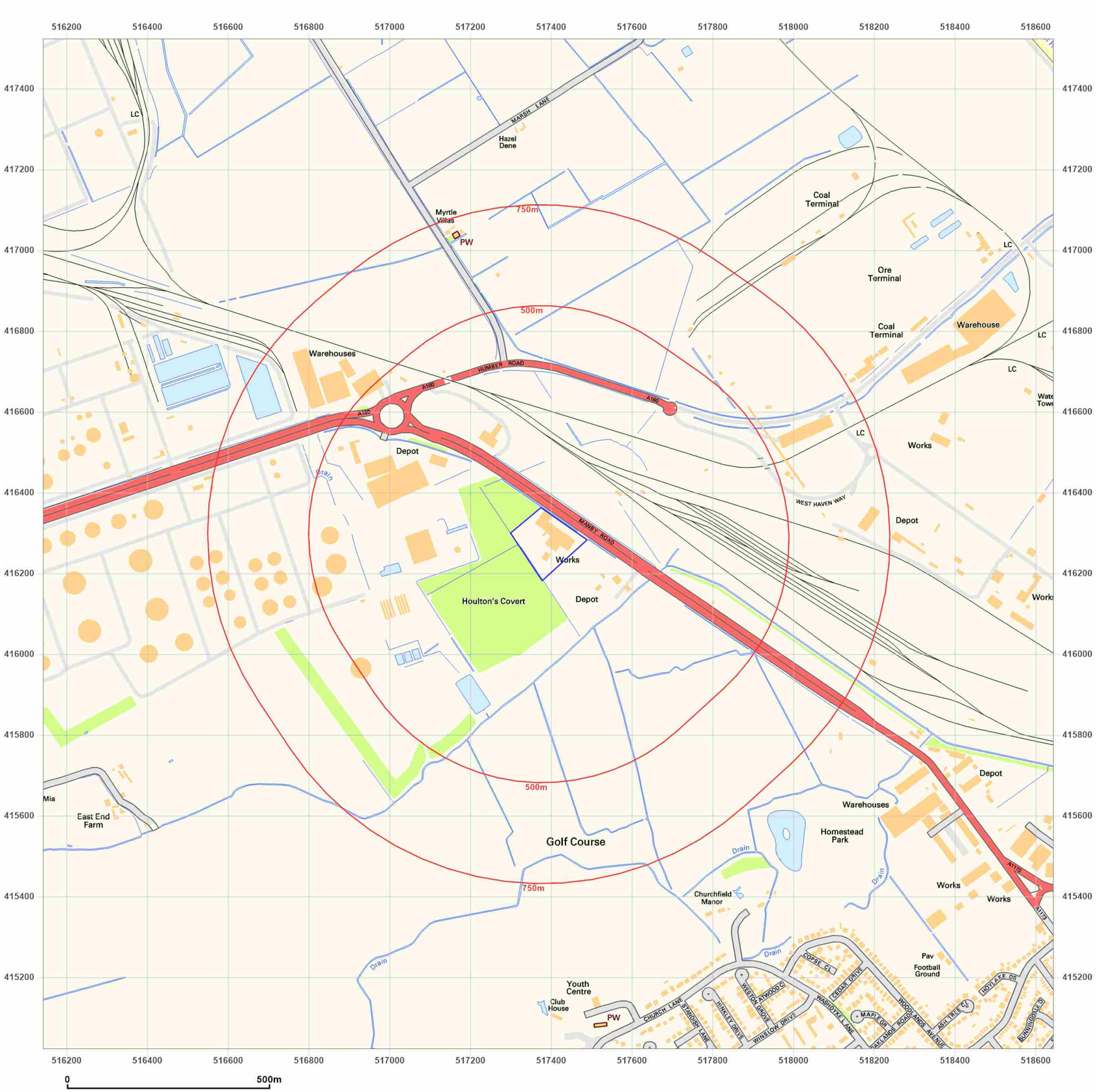
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

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2001

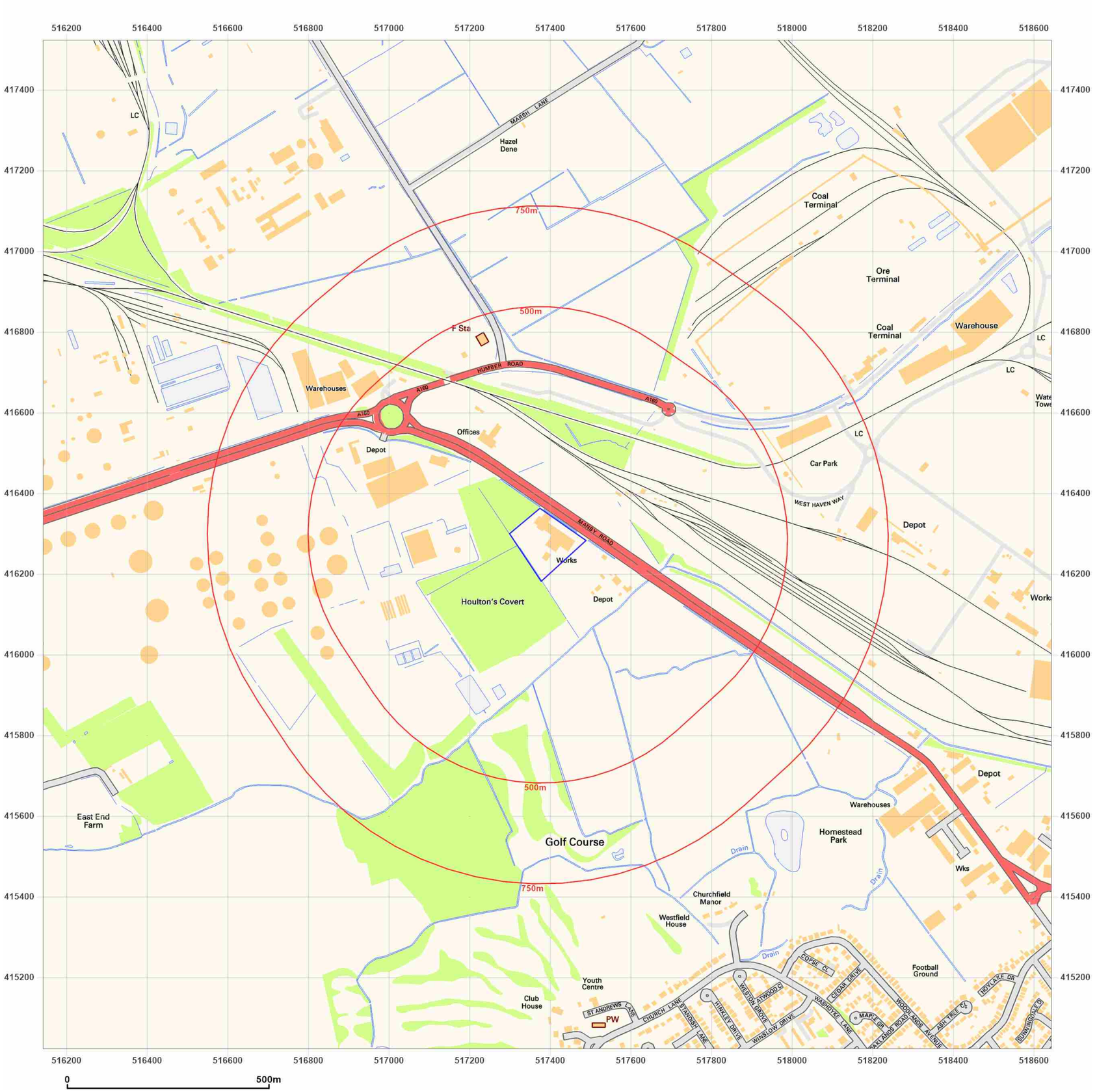
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2010

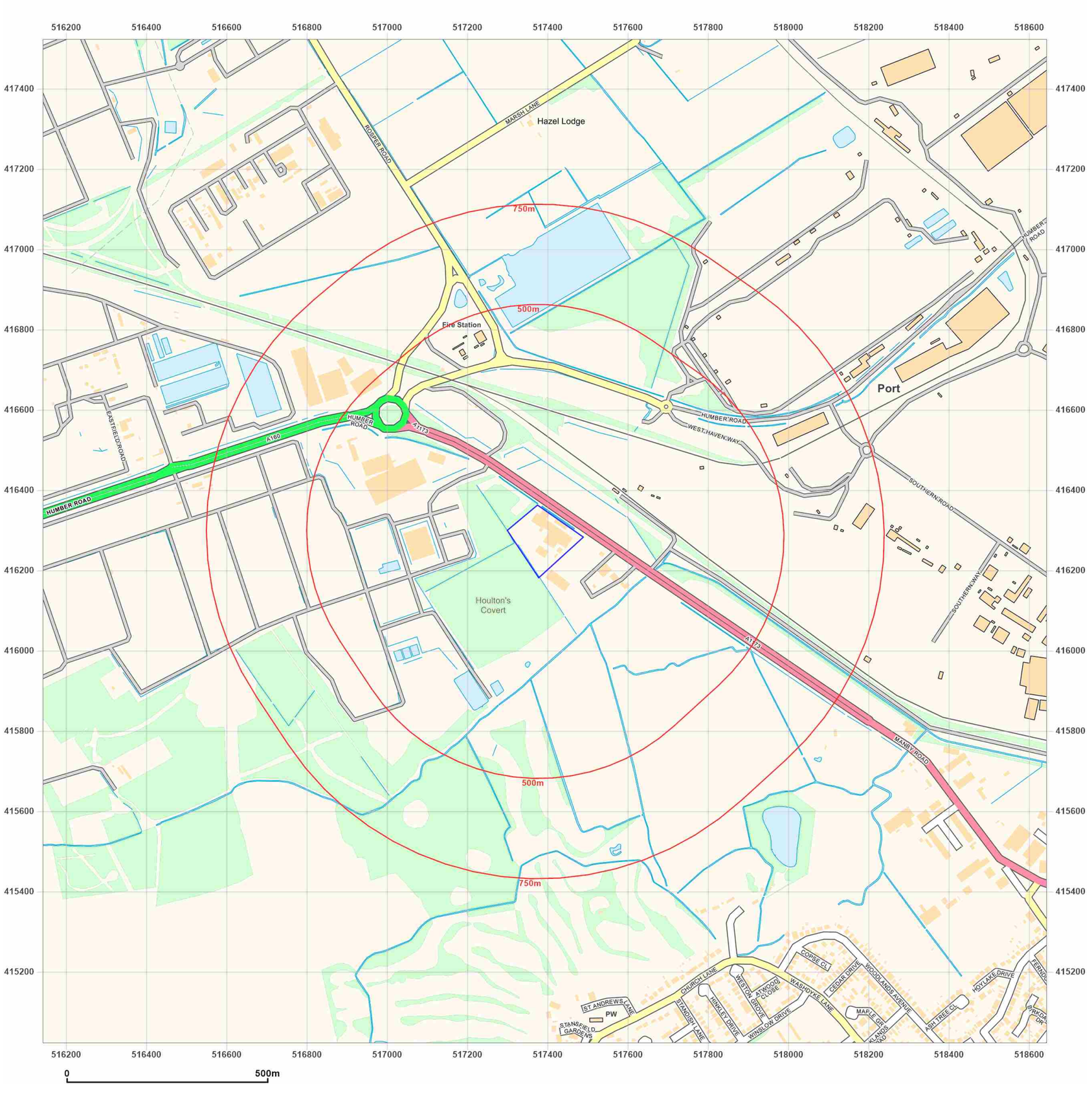
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **2024**

Scale: 1:10,000

Printed at: 1:10,000

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2024

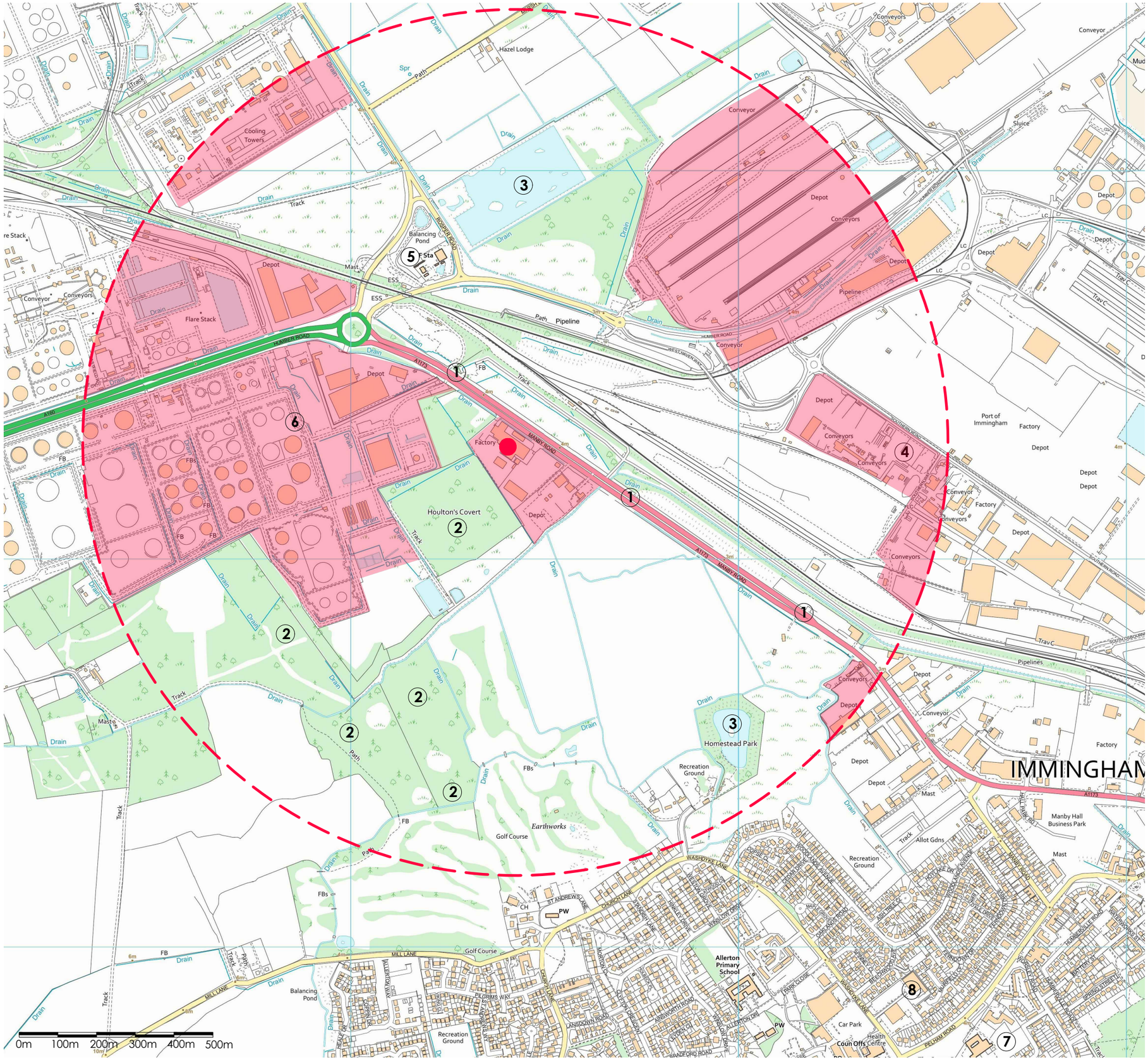
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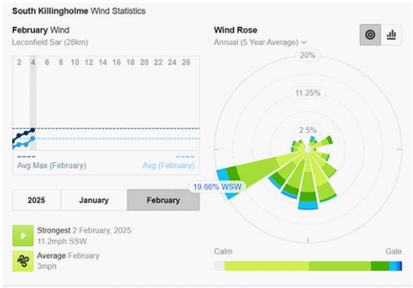
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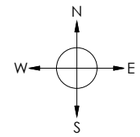
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LEGEND

- **SITE / SITE BOUNDARY**
- **1KM OFF SET BOUNDARY**
- **INDUSTRIAL / INDUSTRIAL PARK**

1. A1173
2. WOODLAND (DECIDUOUS WOODLAND) CHALK RIVER
3. PROTECTED HABITATS (WATER COURSE)
4. OXBOW UK
5. IMMINGTON WEST FIRE STATION
6. HUMBER REFINERY
7. THE CANON PETER HALL COFE PRIMARY SCHOOL
8. ALDI





SITE **SAR METALS, RJA HOUSE** **UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, IMMINGHAM, DN40 3DX**	
PROJECT **EA Permit Application**	
DRAWING TITLE **SITE RECEPTOR PLAN**	
DRAWING NUMBER **004**	REVISION **0**
SCALE **1:10000 @ A3**	DATE **10.02.25**

OLIVE Compliance



NOTES

DRAWING IS A SITE SCHEMATIC

ANY ANOMALIES ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF OLIVE COMPLIANCE

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LEGEND

- PERMIT BOUNDARY
- SURFACE WATER DRAINAGE
- FOUL DRAINAGE
- RWP RAIN WATER PIPE
- F1 FOUL WATER MANHOLES
- S1 SURFACE WATER MANHOLES

N
W E
S

SITE
SAR

UNIT 3 MANBY ROAD SOUTH KILLINGHOLME IMMINGHAM DN40 3DX

PROJECT
EA Permit Application

DRAWING TITLE
SITE DRAINAGE PLAN

DRAWING NUMBER	REVISION
009	**1 - 16.01.26**
SCALE **1:750 @ A3**	DATE **07.01.26**

OLIVE Compliance

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Order Details

Date: 13/12/2024

Your ref: PO21

Our Ref: GS-8OV-UZ4-RUJ-V9G

Site Details

Location: 517387 416279

Area: 1.71 ha

Authority: North Lincolnshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.13 >

Aerial image p. 8 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	1	3	10	7	-
15 >	1.2 >	Historical tanks >	0	0	2	2	-
16 >	1.3 >	Historical energy features >	0	0	3	3	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	1	4	13	10	-
19 >	2.2 >	Historical tanks >	0	0	2	2	-
20 >	2.3 >	Historical energy features >	0	0	5	6	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	2	-
23	3.5	Historical waste sites	0	0	0	0	-
23 >	3.6 >	Licensed waste sites >	0	0	2	1	-
24 >	3.7 >	Waste exemptions >	0	4	0	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	4.1 >	Recent industrial land uses >	1	1	8	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-

26 >	4.6 >	Control of Major Accident Hazards (COMAH) >	1	0	2	2	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27 >	4.8 >	Hazardous substance storage/usage >	0	0	1	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
28 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	4	-
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29 >	4.13 >	Licensed Discharges to controlled waters >	0	0	4	9	-
30	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
31	4.15	Pollutant release to public sewer	0	0	0	0	-
31	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	4.17	List 2 Dangerous Substances	0	0	0	0	-
31 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	0	-
31	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
34 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
35 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
36	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
36	5.5	Groundwater vulnerability- local information	None (within 0m)				
37 >	5.6 >	Groundwater abstractions >	0	0	0	0	24
41 >	5.7 >	Surface water abstractions >	0	0	0	0	1
42	5.8	Potable abstractions	0	0	0	0	0
42 >	5.9 >	Source Protection Zones >	1	0	0	1	-
42	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	6.1 >	Water Network (OS MasterMap) >	1	2	31	-	-

46 >	6.2 >	Surface water features >	1	3	19	-	-
46 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
46 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
47 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	7.1 >	Risk of flooding from rivers and the sea >	Very Low (within 50m)				
49 >	7.2 >	Historical Flood Events >	0	0	1	-	-
49	7.3	Flood Defences	0	0	0	-	-
49	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
49	7.5	Flood Storage Areas	0	0	0	-	-
50 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
50 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding					
52	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
53 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
54 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
55 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	2
59 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
59 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	1
60	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
60	10.7	Designated Ancient Woodland	0	0	0	0	0
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	10.11	Green Belt	0	0	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62 >	10.16 >	Nitrate Vulnerable Zones >	2	0	2	0	0
63 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
65 >	10.18 >	SSSI Units >	0	0	0	0	4
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72	11.4	Listed Buildings	0	0	0	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
75 >	12.5 >	Countryside Stewardship Schemes >	0	0	2	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	13.1 >	Priority Habitat Inventory >	1	1	2	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	14.1 >	10k Availability >	Identified (within 500m)				
80	14.2	Artificial and made ground (10k)	0	0	0	0	-
81	14.3	Superficial geology (10k)	0	0	0	0	-

81	14.4	Landslip (10k)	0	0	0	0	-
82	14.5	Bedrock geology (10k)	0	0	0	0	-
82	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
83 >	15.1 >	**50k Availability >**	Identified (within 500m)				
84 >	15.2 >	**Artificial and made ground (50k) >**	0	0	1	0	-
84	15.3	Artificial ground permeability (50k)	0	0	-	-	-
85 >	15.4 >	**Superficial geology (50k) >**	1	1	0	0	-
86 >	15.5 >	**Superficial permeability (50k) >**	Identified (within 50m)				
86	15.6	Landslip (50k)	0	0	0	0	-
86	15.7	Landslip permeability (50k)	None (within 50m)				
87 >	15.8 >	**Bedrock geology (50k) >**	1	0	0	0	-
87 >	15.9 >	**Bedrock permeability (50k) >**	Identified (within 50m)				
88	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
89 >	16.1 >	**BGS Boreholes >**	0	0	1	-	-
Page	Section	**Natural ground subsidence >**					
90 >	17.1 >	**Shrink swell clays >**	Low (within 50m)				
91 >	17.2 >	**Running sands >**	Moderate (within 50m)				
92 >	17.3 >	**Compressible deposits >**	Moderate (within 50m)				
93 >	17.4 >	**Collapsible deposits >**	Very low (within 50m)				
94 >	17.5 >	**Landslides >**	Low (within 50m)				
95 >	17.6 >	**Ground dissolution of soluble rocks >**	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
96	18.1	BritPits	0	0	0	0	-
96 >	18.2 >	**Surface ground workings >**	0	2	4	-	-
97	18.3	Underground workings	0	0	0	0	0
97	18.4	Underground mining extents	0	0	0	0	-
97	18.5	Historical Mineral Planning Areas	0	0	0	0	-

97	18.6	Non-coal mining	0	0	0	0	0
98	18.7	JPB mining areas	None (within 0m)				
98	18.8	The Coal Authority non-coal mining	0	0	0	0	-
98	18.9	Researched mining	0	0	0	0	-
98	18.10	Mining record office plans	0	0	0	0	-
98	18.11	BGS mine plans	0	0	0	0	-
99	18.12	Coal mining	None (within 0m)				
99	18.13	Brine areas	None (within 0m)				
99	18.14	Gypsum areas	None (within 0m)				
99	18.15	Tin mining	None (within 0m)				
99	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
100	19.1	Natural cavities	0	0	0	0	-
100	19.2	Mining cavities	0	0	0	0	0
100	19.3	Reported recent incidents	0	0	0	0	-
100	19.4	Historical incidents	0	0	0	0	-
101	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon** >					
102 >	**20.1** >	**Radon** >	Less than 1% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
103 >	**21.1** >	**BGS Estimated Background Soil Chemistry** >	1	3	-	-	-
103	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	**Railway infrastructure and projects** >	On site	0-50m	50-250m	250-500m	500-2000m
104	22.1	Underground railways (London)	0	0	0	-	-
104	22.2	Underground railways (Non-London)	0	0	0	-	-
105	22.3	Railway tunnels	0	0	0	-	-
105 >	**22.4** >	**Historical railway and tunnel features** >	0	1	11	-	-
105	22.5	Royal Mail tunnels	0	0	0	-	-

106	22.6	Historical railways	0	0	0	-	-
106 >	**22.7 >**	**Railways >**	0	0	22	-	-
107	22.8	Crossrail 2	0	0	0	0	-
107	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 11/04/2022

Site Area: 1.71ha

Recent site history - 2019 aerial photograph



Capture Date: 17/09/2019

Site Area: 1.71ha

Recent site history - 2014 aerial photograph



Capture Date: 27/09/2014

Site Area: 1.71ha

Recent site history - 2007 aerial photograph



Capture Date: 27/08/2007

Site Area: 1.71ha

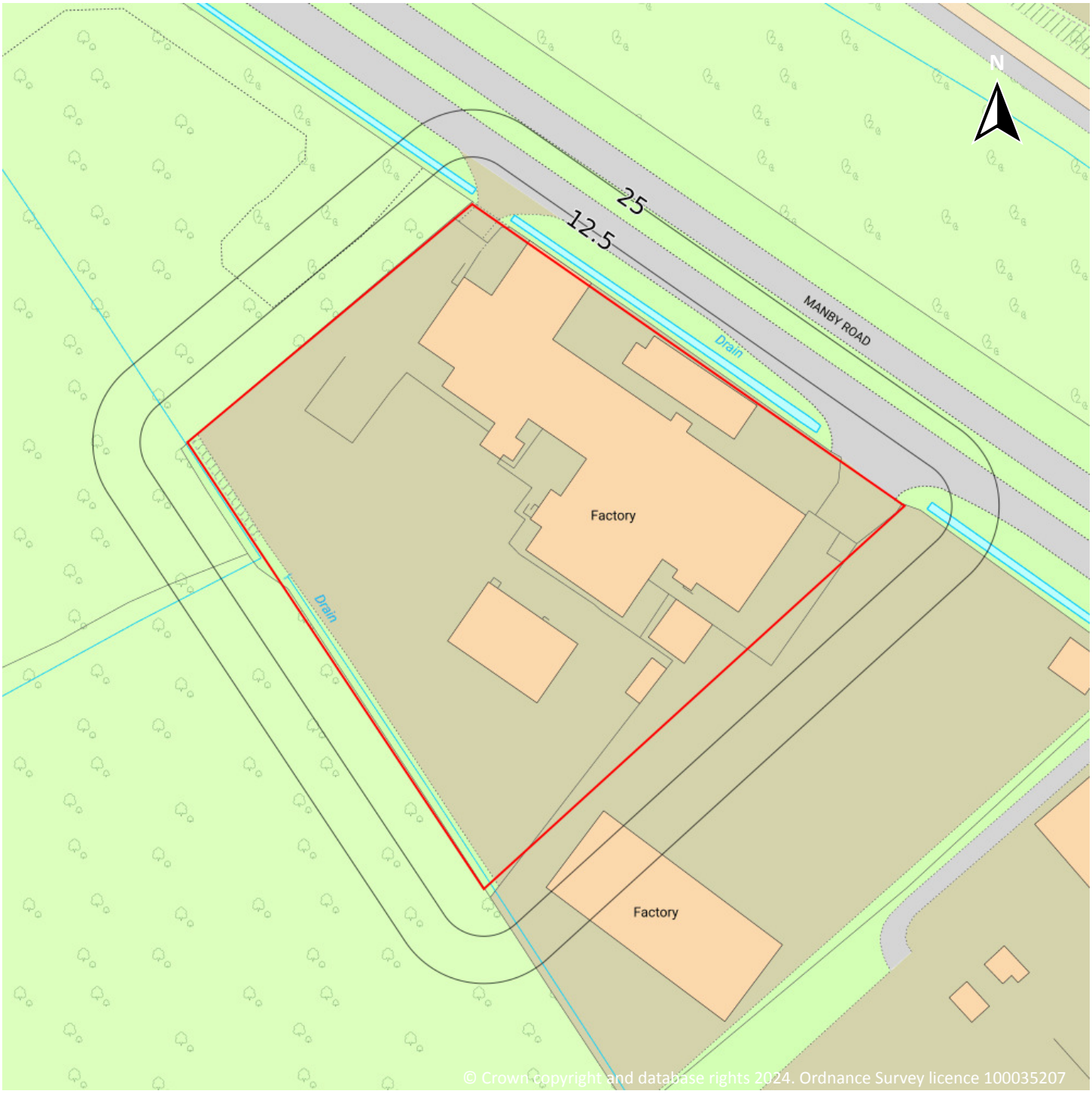
Recent site history - 1999 aerial photograph



Capture Date: 29/04/1999

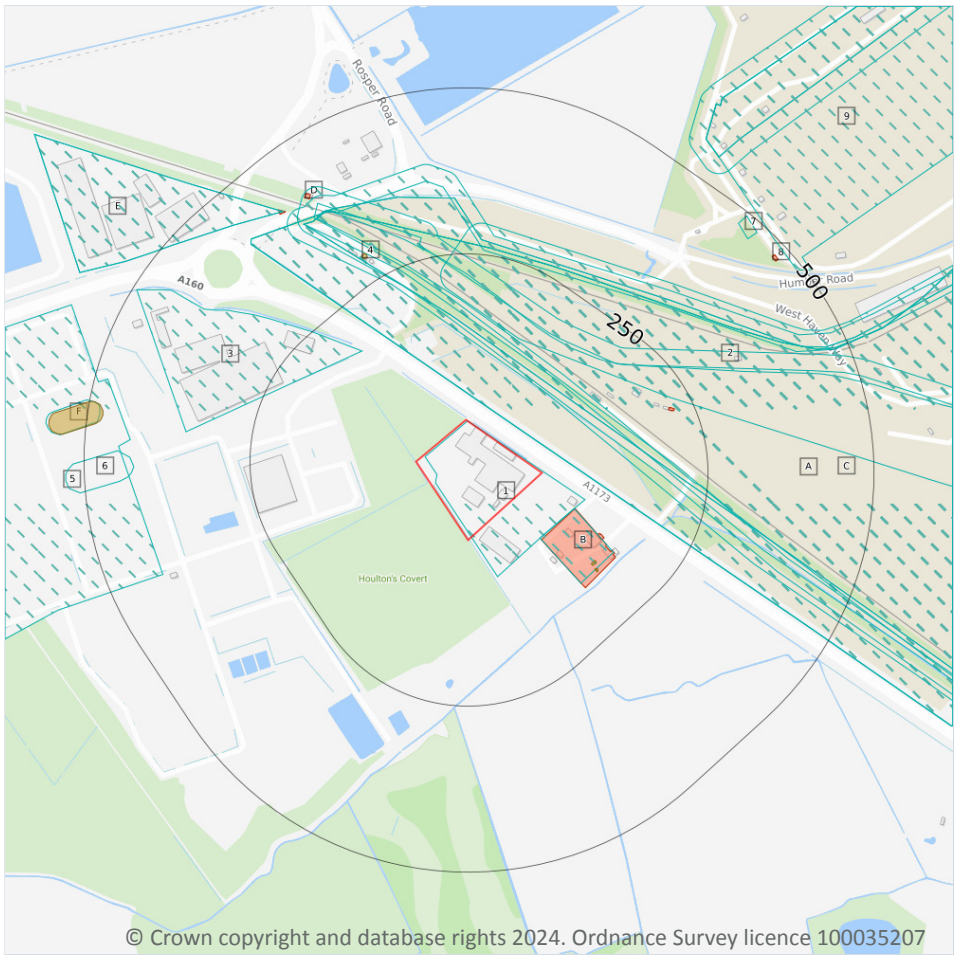
Site Area: 1.71ha

OS MasterMap site plan



Site Area: 1.71ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	21

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Works**	**1983**	**2020513**

ID	Location	Land use	Dates present	Group ID
A	34m N	Unspecified Commercial/Industrial	1947	2025178
A	34m N	Dock	1947	2030354
A	34m N	Railway Sidings	1938 - 1947	2030791
B	71m SE	Unspecified Depot	1974 - 1983	2032463
A	97m NE	Docks	1951	2030397
A	103m NE	Dock	1968	2027074
A	115m NE	Railway Sidings	1972 - 1974	2026332
A	115m NE	Railway Sidings	1983	2030201
A	122m NE	Railway Sidings	1951 - 1952	2033094
C	128m NE	Railway Sidings	1968	2021079
C	135m NE	Railway Sidings	1930	2032808
2	146m N	Docks	1974 - 1983	2031749
3	180m NW	Unspecified Depot	1974 - 1983	2028359
5	416m W	Unspecified Commercial/Industrial	1974 - 1983	2032880
E	418m NW	Unspecified Depot	1974	2018914
E	418m NW	Unspecified Warehouses	1983	2019352
6	425m W	Unspecified Tanks	1983	2019754
7	469m NE	Electric Substation	1983	2017452
F	482m W	Unspecified Tanks	1974 - 1983	2022639
9	491m NE	Ore Terminal	1974 - 1983	2024993

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
B	151m SE	Unspecified Tank	1973	349109
B	161m SE	Unspecified Tank	1982	349107
4	287m NW	Unspecified Tank	1982	349471
F	477m W	Tanks	1973	348460

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m **6**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
B	73m E	Liquid Gas Depot	1973	240395
B	125m SE	Electricity Substation	1973 - 1982	242226
A	213m E	Electricity Substation	1973 - 1982	242478
D	408m NW	Electricity Substation	1973 - 1982	242842
D	415m NW	Electricity Substation	1973 - 1982	241164
8	475m NE	Electricity Substation	1973 - 1982	243398

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m **0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

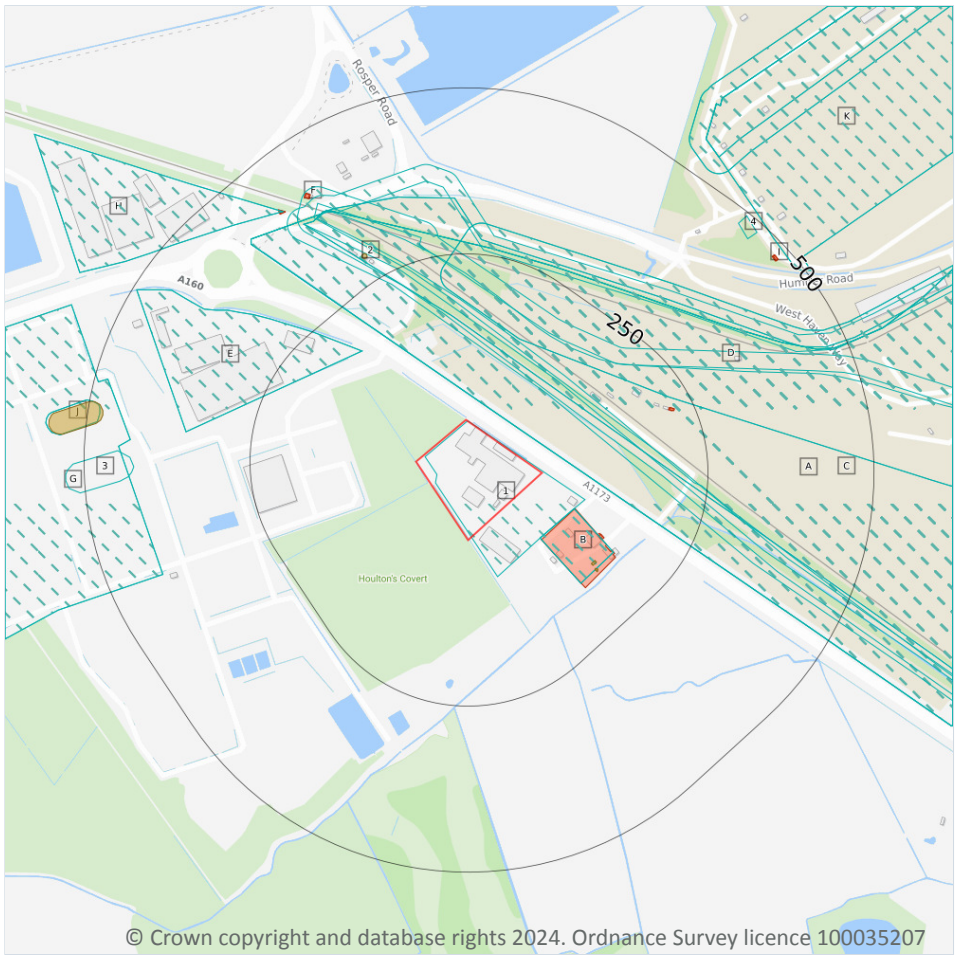
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	28

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Works**	**1983**	**2020513**
A	34m N	Dock	1947	2030354
A	34m N	Unspecified Commercial/Industrial	1947	2025178

ID	Location	Land Use	Date	Group ID
A	34m N	Railway Sidings	1947	2030791
A	34m N	Dock	1947	2030354
B	71m SE	Unspecified Depot	1974	2032463
B	71m SE	Unspecified Depot	1983	2032463
A	97m NE	Docks	1951	2030397
A	103m NE	Dock	1968	2027074
A	115m NE	Railway Sidings	1974	2026332
A	115m NE	Railway Sidings	1983	2030201
A	122m NE	Railway Sidings	1951	2033094
C	128m NE	Railway Sidings	1968	2021079
C	135m NE	Railway Sidings	1930	2032808
D	146m N	Docks	1974	2031749
D	146m N	Docks	1983	2031749
E	180m NW	Unspecified Depot	1974	2028359
E	180m NW	Unspecified Depot	1983	2028359
G	416m W	Unspecified Commercial/Industrial	1974	2032880
G	416m W	Unspecified Commercial/Industrial	1983	2032880
H	418m NW	Unspecified Depot	1974	2018914
H	418m NW	Unspecified Warehouses	1983	2019352
3	425m W	Unspecified Tanks	1983	2019754
4	469m NE	Electric Substation	1983	2017452
J	482m W	Unspecified Tanks	1974	2022639
J	482m W	Unspecified Tanks	1983	2022639
K	491m NE	Ore Terminal	1974	2024993
K	491m NE	Ore Terminal	1983	2024993

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
B	151m SE	Unspecified Tank	1973	349109
B	161m SE	Unspecified Tank	1982	349107
2	287m NW	Unspecified Tank	1982	349471
J	477m W	Tanks	1973	348460

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	11

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
B	73m E	Liquid Gas Depot	1973	240395
B	125m SE	Electricity Substation	1982	242226
B	128m SE	Electricity Substation	1973	242226
A	213m E	Electricity Substation	1982	242478
A	214m E	Electricity Substation	1973	242478
F	408m NW	Electricity Substation	1973	242842
F	409m NW	Electricity Substation	1982	242842
F	415m NW	Electricity Substation	1973	241164
F	416m NW	Electricity Substation	1982	241164
I	475m NE	Electricity Substation	1982	243398

ID	Location	Land Use	Date	Group ID
I	476m NE	Electricity Substation	1973	243398

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	3

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Details		
B	180m N	Site Address: Landfill Site - South Killingholme, Humber Road, Grimsby, Lincolnshire Licence Holder Address: Moody Lane, Grimsby, Lincolnshire	Waste Licence: Yes Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: YP2/L/POR001 Licence Issue: 08/10/1991 Licence Surrender: 06/11/2007	Operator: Landfill Site - South Killingholme Licence Holder: Landfill Site - South Killingholme First Recorded - Last Recorded: -
1	263m W	Site Address: Conoco, Killingholme Licence Holder Address: -	Waste Licence: Yes Site Reference: 55/19/0148, 1480, 2000/5296 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 10/12/1987 Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/07/1975 Last Recorded: -
2	274m SW	Site Address: Conoco, Killingholme Licence Holder Address: -	Waste Licence: Yes Site Reference: 55/19/0148, 1480, 2000/5295 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 18/12/1987 Licence Surrender: -	Operator: Conoco Licence Holder: - First Recorded 30/06/1975 Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	3

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Details		
B	241m NE	Site Name: Landfill Site - South Killingholme Site Address: Tioxide Europe Ltd, Humber Road, Grimsby, N E Linc Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TIO003 EPR reference: EA/EPR/JP3095NJ/A001 Operator: Tioxide Europe Ltd Waste Management licence No: 70833 Annual Tonnage: 475000	Issue Date: 08/10/1991 Effective Date: - Modified: - Surrendered Date: Nov 6 2007 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
B	241m NE	Site Name: Humber Road Site Address: Humber Road, Grimsby, DN40 3DX Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 627783 EPR reference: EA/EPR/JP3095NJ Operator: Venator Materials Uk Limited Waste Management licence No: 70833 Annual Tonnage: 475000	Issue Date: 08/10/1991 Effective Date: 08/10/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
C	343m E	Site Name: WARD - Pad3 Site Address: Pad 3, Immingham Dock, Immingham, DN40 2QT Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: - EPR reference: EA/EPR/WE0282AC/A001 Operator: Donald Ward Limited Waste Management licence No: 120787 Annual Tonnage: 0	Issue Date: 01/11/2023 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	**8**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

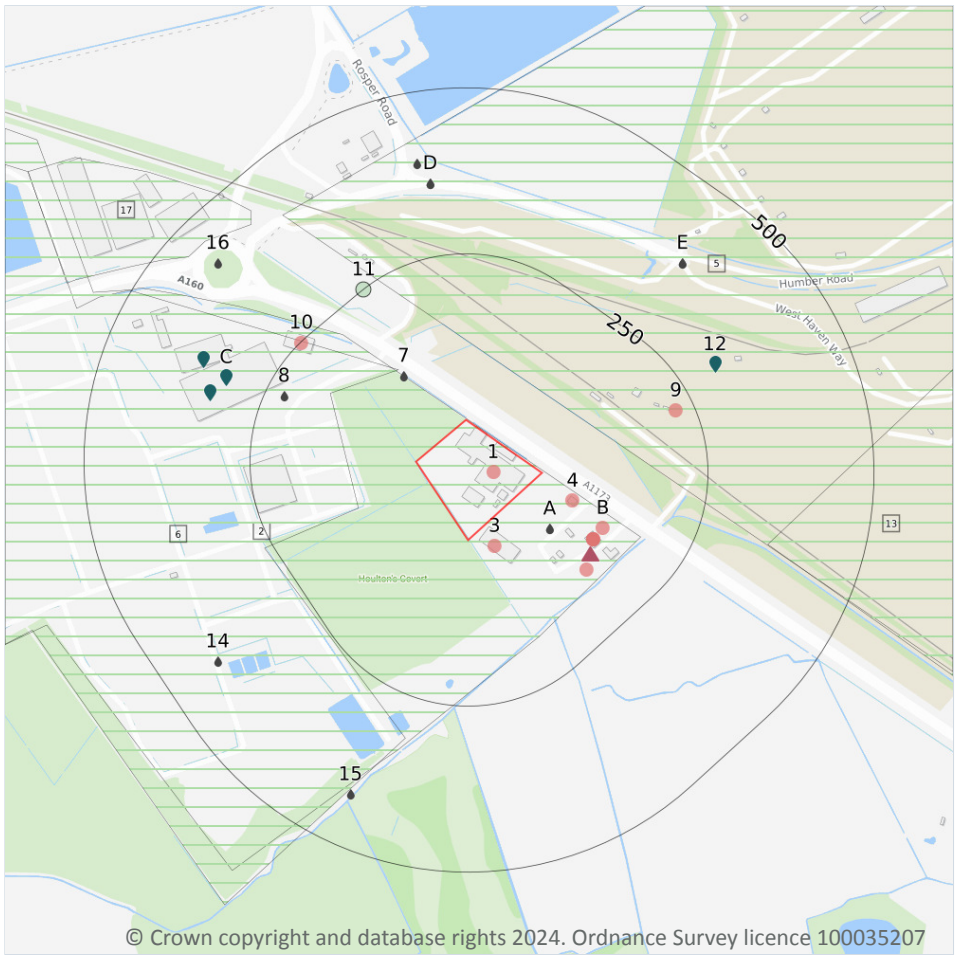
Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	2m SE	-	WEX404546	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	2m SE	-	WEX404546	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	2m SE	-	WEX404546	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	2m SE	Manby Road, Immingham, Dn40 3dx	EXP/DP3241YA	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
C	329m E	-	WEX255485	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	360m E	-	WEX253450	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	442m N	Able Humber Ports Facility, Rosper Road, Immingham, South Humberside, Dn40 3dz	WEX279786	Disposing of waste exemption	Not on a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
4	489m SW	Phillips 66 Humber Oil Refinery Bund Area 17 On South Tank Farm Dn40 3dw	EPR/TE5744KV/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Control of Major Accident Hazards

Hazardous substance storage/usage

Licensed pollutant release (Part A(2)/B)

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Works**	**Lincolnshire, DN40**	**Unspecified Works Or Factories**	**Industrial Features**
3	33m S	Factory	Lincolnshire, DN40	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
4	63m E	Delta Engineering Group Ltd	Delta Engineering Group Ltd Unit 3, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Mechanical Engineers	Engineering Services
B	124m E	Electricity Sub Station	Lincolnshire, DN40	Electrical Features	Infrastructure and Facilities
B	126m SE	Calor Gas Ltd	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	126m SE	Immingham Calor Centre	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	126m SE	Calor	Workshop, Manby Road, South Killingholme, Lincolnshire, DN40 3DX	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	152m SE	Tank	Lincolnshire, DN40	Tanks (Generic)	Industrial Features
9	222m E	Electricity Sub Station	Lincolnshire, DN40	Electrical Features	Infrastructure and Facilities
10	249m NW	Factory	Lincolnshire, DN40	Unspecified Works Or Factories	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	5

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Company	Address	Operational status	Tier
2	**On site**	**Conoco Manufacturing Ltd**	**Conoco Manufacturing Ltd, South Tank Farm, South Killingholme, Immingham**	**Historical NIHHS Site**	**-**
5	99m N	Associated British Ports	Associated British Ports, Immingham Dock, Immingham Dock, Immingham, Lincolnshire, DN40 2NS	Current COMAH Site	COMAH Upper Tier Operator
6	101m W	Phillips 66 Limited	Phillips 66 Limited, Humber Refinery, Humber Refinery, Eastfield Road, Grimsby, North Lincolnshire, DN40 3DW	Current COMAH Site	COMAH Upper Tier Operator
13	357m E	Exolum Immingham Limited	Exolum Immingham Limited, Immingham West Terminal, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QU	Current COMAH Site	COMAH Upper Tier Operator
17	433m NW	Humberside Sea&land Services Ltd	Humberside Sea&land Services Ltd, Units1&2, Humber Road, South KillINngholme	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Details	
B	138m SE	Application reference number: PA/1999/0998 Application status: Approved Application date: 26/11/1999 Address: Calor Gas Ltd, Manby Road, South Killingholme, North Lincolnshire, England, DN40 3DX	Details: Hazardous Substances Consent to increase the amount of LPG cylinder storage from 25 tonnes to 44 tonnes Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	4

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Address	Details	
12	307m NE	Associated British Ports Pad 1, Western Access Road, Immingham Dock, Immingham, North East Lincolnshire, DN40 2LZ	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	313m W	P D Port Services Ltd, Unit 2 Humber Road, South Killingholme, DN40 3DU	Process: Coal & Coke Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	327m W	Phillips 66 Limited, Unit 2, Humber Road, South Killingholme, DN40 3DW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	355m NW	Phillips 66 Limited, Unit 1, Humber Road, South Killingholme, DN40 3DW	Process: Coal & Coke Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m **0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m **13**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Address	Details	
A	70m SE	MANBYROADDEPOT,SOUTHKILLINGHOLME	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF560 Permit Version: 1 Receiving Water: Unknown Trib.	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 26/06/1966 Effective Date: 26/06/1966 Revocation Date: -

ID	Location	Address	Details	
A	70m SE	MANBYROADDEPOT,SOUTHKILLINGHOLME	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF560 Permit Version: 1 Receiving Water: Unknown Trib.	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 26/06/1966 Effective Date: 26/06/1966 Revocation Date: -
7	111m NW	COMMONPUMPINGSTATION,ASSOCIATEDPETROLEUMLTD,QUEENSROAD,IMMINGHAM,NORTHEASTLINCOLNSHIRE,DN402PN	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: PRNNF18603 Permit Version: 1 Receiving Water: TRIB. OF HABROUGH MARSH DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 13/03/2007 Effective Date: 31/03/2007 Revocation Date: -
8	222m NW	COMMONPUMPSTATION,IMMINGHAM,GRIMSBY,SOUTHHUMBERSIDE,DN402PW	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF927 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/03/1972 Effective Date: 28/03/1972 Revocation Date: 19/01/1994
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1093 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/07/1974 Effective Date: 17/07/1974 Revocation Date: 03/02/1992
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1093 Permit Version: 2 Receiving Water: into drain	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 04/02/1992 Effective Date: 04/02/1992 Revocation Date: 25/07/2000
D	360m N	MANBYROADIMMINGHAM,NEWOFFICESMANBYROAD,SOUTHKILLINGHOLME,IMMINGHAM,DN403EG	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF1095 Permit Version: 1 Receiving Water: Unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/07/1974 Effective Date: 17/07/1974 Revocation Date: 11/02/1992
E	380m NE	OFFICEWESTENTRANCEIMMINGHAMDOCK,IMMINGHAM,DN40	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NF653 Permit Version: 1 Receiving Water: South Killingholme Main Drain	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/07/1988 Effective Date: 01/07/1988 Revocation Date: 12/03/1993

ID	Location	Address	Details	
E	380m NE	OFFICEWESTENTRANCEIMMINGHAMDOCK,IMMINGHAM,DN40	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF1226 Permit Version: 1 Receiving Water: Trib. South Killingholme Main	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/02/1981 Effective Date: 05/02/1981 Revocation Date: 23/04/1996
D	393m N	NEWIMMINGHAMWESTFIRESTATION,ROSPERROAD,IMMINGHAM,NLINCOLNSHIRE,DN403DZ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRNNF12221 Permit Version: 1 Receiving Water: SOUTH KILLINGHOLME MAIN DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/08/1999 Effective Date: 26/11/1998 Revocation Date: -
14	415m SW	MESSROOMATMAINTENANCEWORKSHOP,MANBYRD,IMMINGHAM	Effluent Type: UNSPECIFIED Permit Number: PR3LFU914 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/11/1977 Effective Date: 25/11/1977 Revocation Date: 01/10/1996
15	422m S	SITESTHKILLINGHOLME,CONOCOCENTRE,WARWICKTECHPARK,GALLOWSHILLWARWICK,CV346DA	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: PR3NFF855A Permit Version: 1 Receiving Water: Unknown trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 24/09/1970 Effective Date: 24/09/1970 Revocation Date: 25/10/1993
16	423m NW	COMMONPUMPSTATION,SOUTHKILLINGHOLME,IMMINGHAM,DN40	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: PR3NFF782 Permit Version: 1 Receiving Water: unknown Trib	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 18/09/1969 Effective Date: 18/09/1969 Revocation Date: 30/09/1993

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 25 >**

ID	Location	Details	
11	250m NW	Incident Date: 30/09/2002 Incident Identification: 111635 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

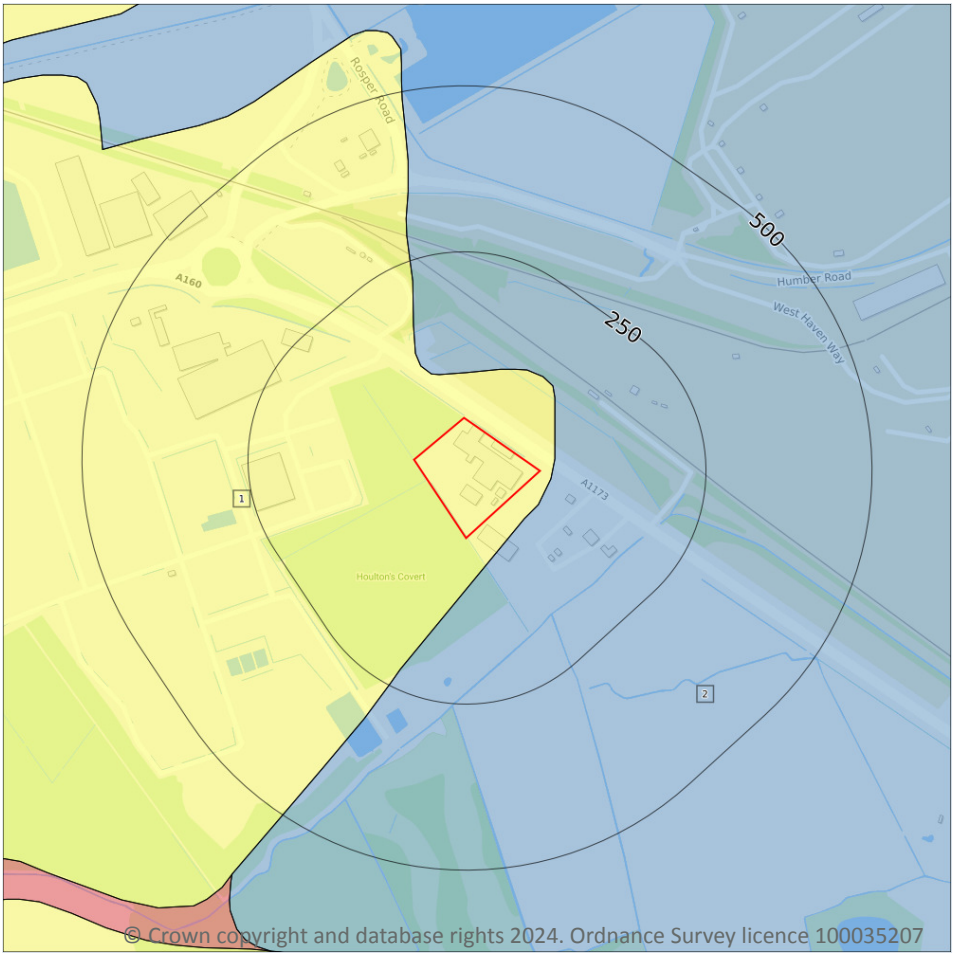
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	2

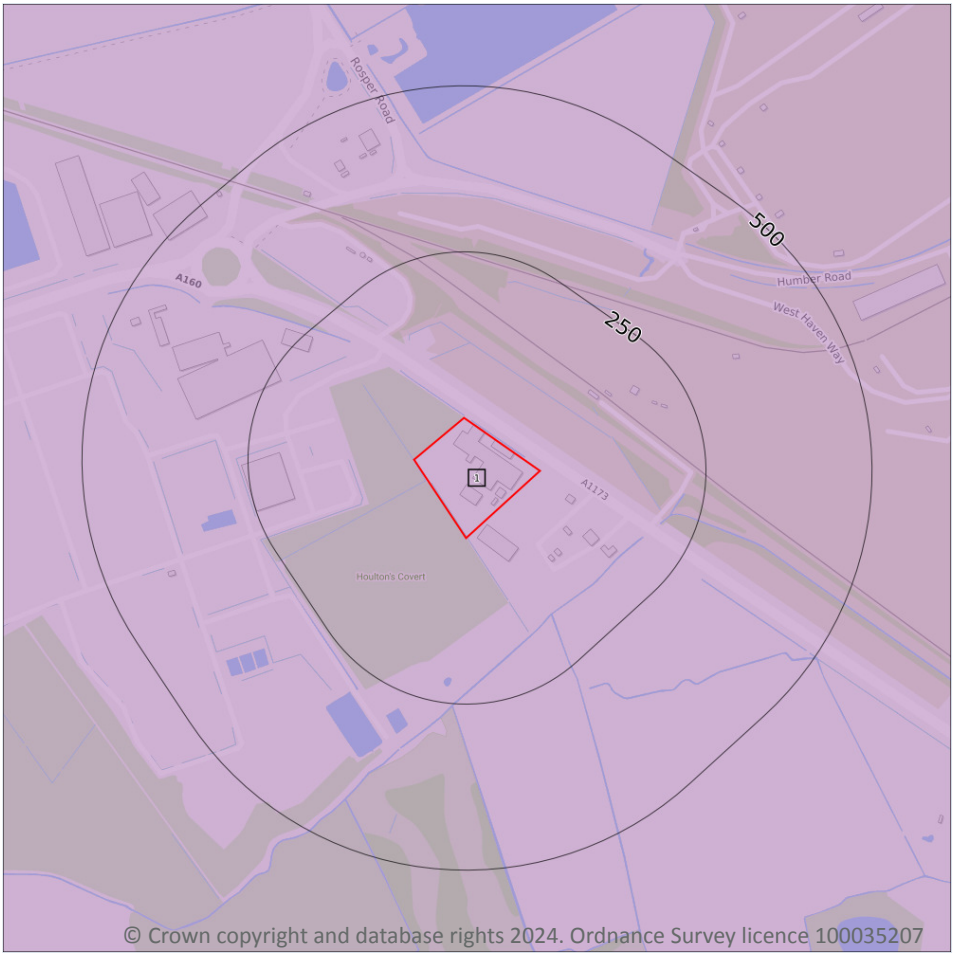
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 33 >**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	19m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

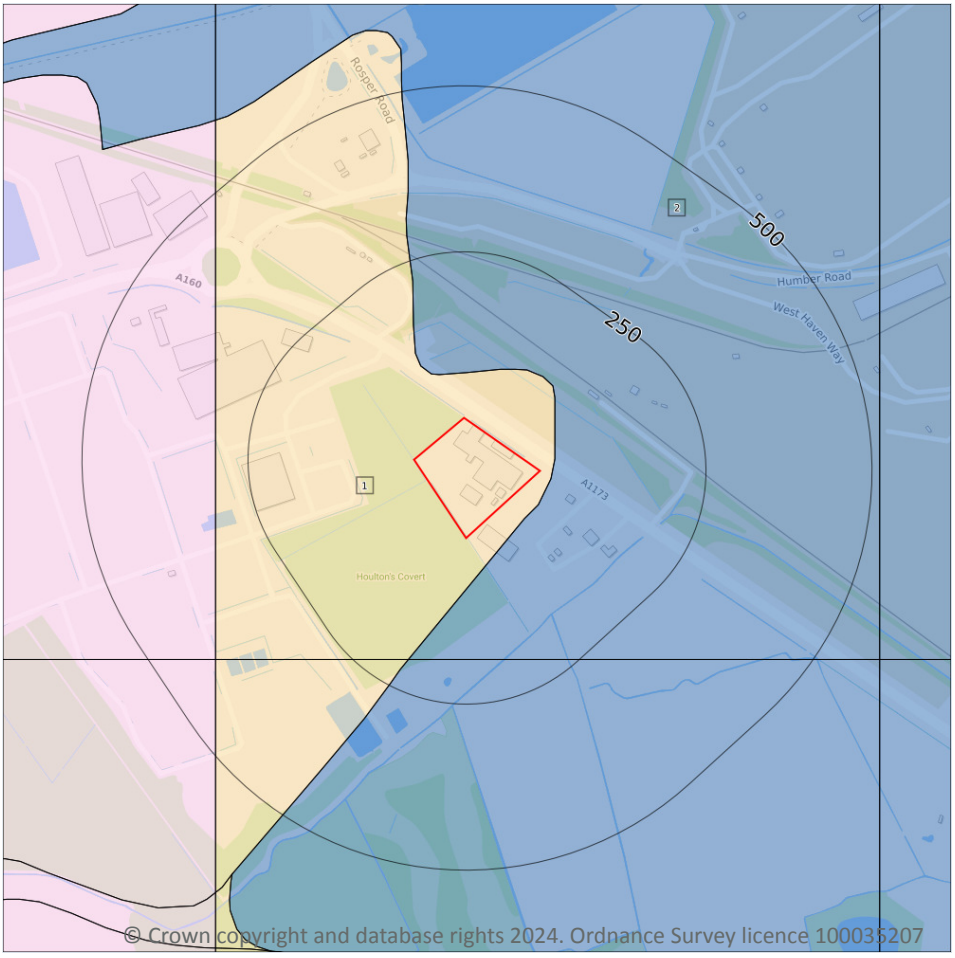
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 34 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 35 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
2	19m E	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

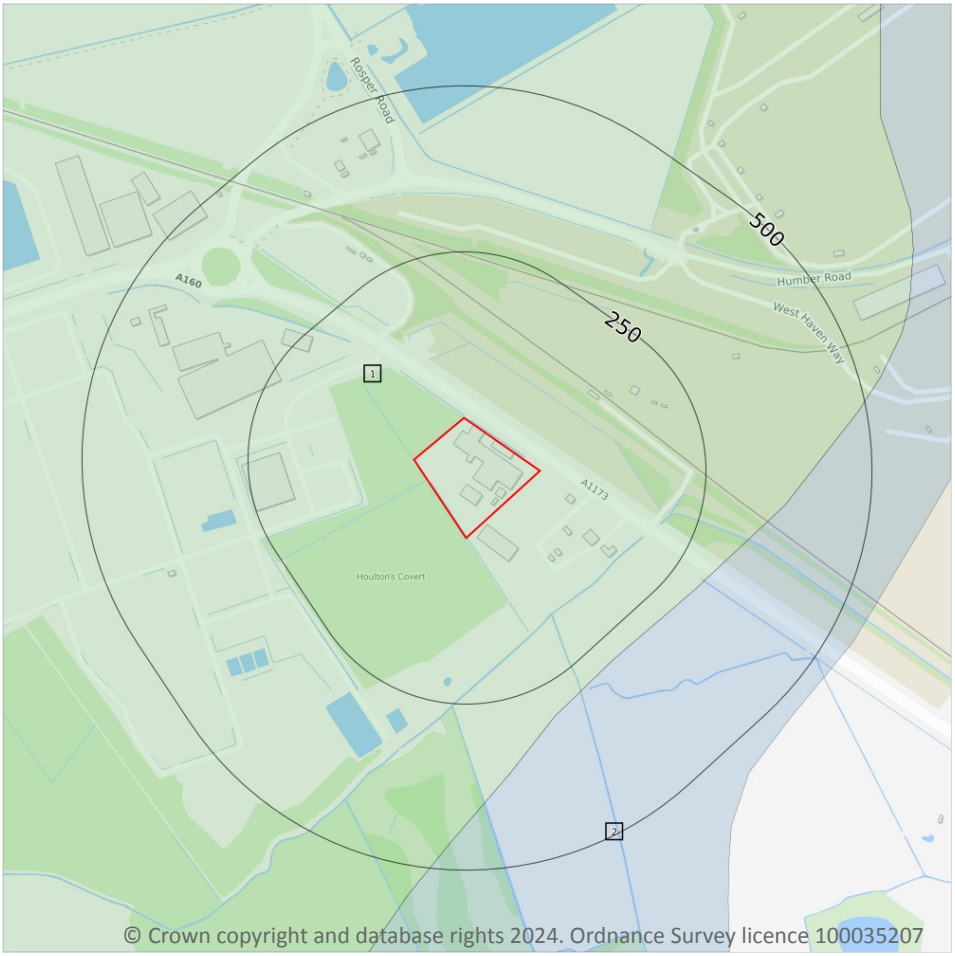
5.5 Groundwater vulnerability- local information

Records on site	**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	24

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Details	
-	772m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	772m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Non-Evaporative Cooling Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	772m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1400000 Max Daily Volume (m^3): 5480 Original Application No: NPS/WR/023334 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 05/10/2017 Version End Date: -
-	772m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518197 Northing: 415977	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	809m SE	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RECEPTION BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518200 Northing: 415900	Annual Volume (m^3): 945588 Max Daily Volume (m^3): 2619 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -

ID	Location	Details	
-	1143m N	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: INLAND CAVERN BORE 1 Data Type: Point Name: Phillips 66 Limited Easting: 517760 Northing: 417440	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1147m N	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: INLAND CAVERN BORE 2 Data Type: Point Name: Phillips 66 Limited Easting: 517770 Northing: 417440	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1150m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1150m E	Status: Active Licence No: 4/29/09/*G/0045 Details: Non-Evaporative Cooling Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1150m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1400000 Max Daily Volume (m^3): 5480 Original Application No: NPS/WR/023334 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 102 Version Start Date: 05/10/2017 Version End Date: -

ID	Location	Details	
-	1150m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518578 Northing: 416651	Annual Volume (m^3): 1750000 Max Daily Volume (m^3): 13360 Original Application No: NPS/WR/037291 Original Start Date: 01/06/1966 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2023 Version End Date: -
-	1156m E	Status: Historical Licence No: 4/29/09/*G/0045 Details: Raw Water Supply Direct Source: GROUND WATER SOURCE OF SUPPLY Point: TIMBER YARD BORE Data Type: Point Name: ASSOCIATED BRITISH PORTS Easting: 518600 Northing: 416600	Annual Volume (m^3): 945588 Max Daily Volume (m^3): 2619 Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -
-	1612m W	Status: Active Licence No: AN/029/0009/001/R01 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: NPS/WR/023735 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1612m W	Status: Historical Licence No: 4/29/09/*G/0124 Details: Process water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: CONOCO LTD Easting: 515730 Northing: 416670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1980 Expiry Date: 31/07/2002 Issue No: 100 Version Start Date: 01/07/1997 Version End Date: -
-	1612m W	Status: Historical Licence No: 4/29/09/*G/0145 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: CONOCOPHILLIPS LTD Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 02/07/2002 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 15/07/2003 Version End Date: -

ID	Location	Details	
-	1612m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Ltd Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2010 Version End Date: -
-	1612m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515730 Northing: 416670	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 13/07/2012 Version End Date: -
-	1642m NE	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RIVERSIDE CAVERN BORE 1 Data Type: Point Name: Phillips 66 Limited Easting: 518170 Northing: 417800	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1647m NE	Status: Active Licence No: 4/29/09/*G/0129 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: RIVERSIDE CAVERN BORE 2 Data Type: Point Name: Phillips 66 Limited Easting: 518180 Northing: 417800	Annual Volume (m^3): 14000 Max Daily Volume (m^3): 1056 Original Application No: NPS/WR/011065 Original Start Date: 08/05/1985 Expiry Date: - Issue No: 102 Version Start Date: 13/07/2012 Version End Date: -
-	1800m W	Status: Active Licence No: AN/029/0009/001/R01 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: NPS/WR/023735 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1800m W	Status: Historical Licence No: 4/29/09/*G/0124 Details: Process water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: CONOCO LTD Easting: 515620 Northing: 416950	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1980 Expiry Date: 31/07/2002 Issue No: 100 Version Start Date: 01/07/1997 Version End Date: -
-	1800m W	Status: Historical Licence No: 4/29/09/*G/0145 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: CONOCOPHILLIPS LTD Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 02/07/2002 Expiry Date: 31/03/2010 Issue No: 2 Version Start Date: 15/07/2003 Version End Date: -
-	1800m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: CONOCO BORE2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Ltd Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2010 Version End Date: -
-	1800m W	Status: Historical Licence No: AN/029/0009/001 Details: Process Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 S.KILLINGHOLME Data Type: Point Name: Phillips 66 Limited Easting: 515620 Northing: 416950	Annual Volume (m^3): 619000 Max Daily Volume (m^3): 1700 Original Application No: - Original Start Date: 01/04/2010 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 13/07/2012 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	**1**

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Details	
-	858m SE	Status: Historical Licence No: 4/29/09/*S/0127 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIB. OF HABROUGH MARSH DRAIN Data Type: Point Name: IMMINGHAM TOWN COUNCIL Easting: 517910 Northing: 415510	Annual Volume (m^3): 4092 Max Daily Volume (m^3): 46 Original Application No: - Original Start Date: 01/01/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37 >**

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**
2	285m SE	2	Outer catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

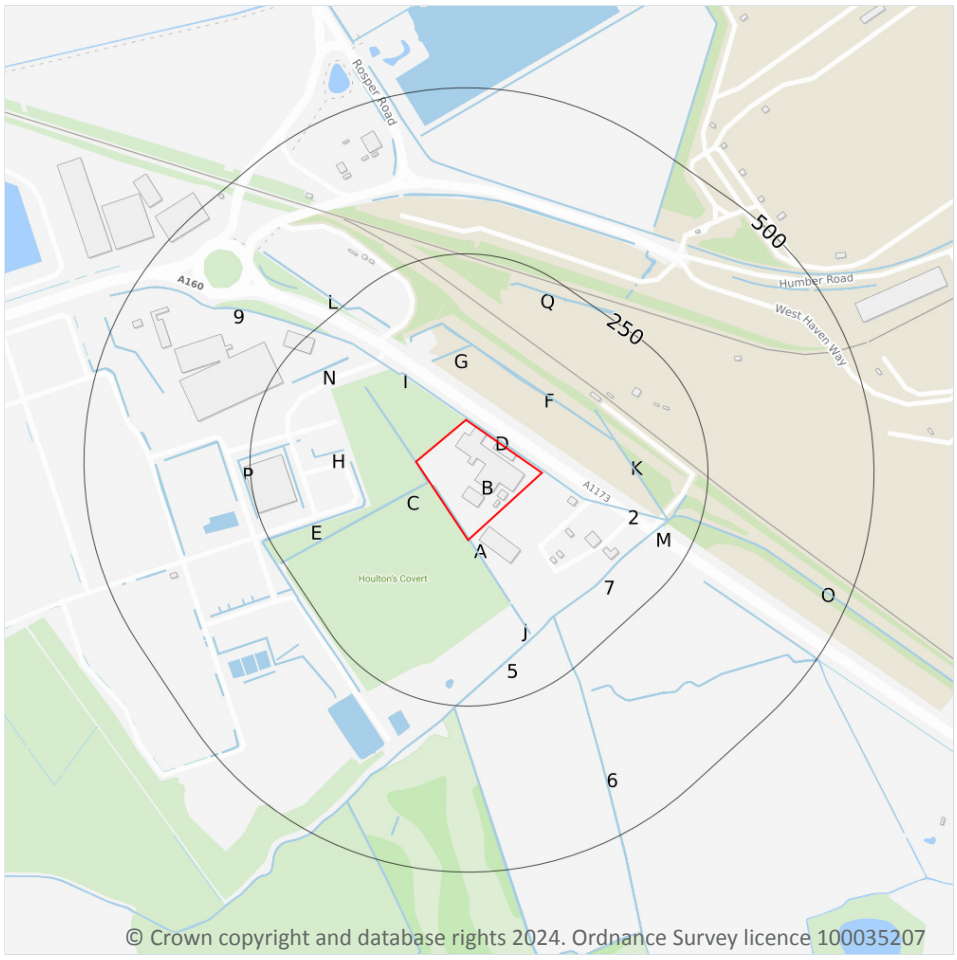
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	34

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**

ID	Location	Type of water feature	Ground level	Permanence	Name
C	1m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	73m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	92m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	96m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	101m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	110m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	114m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	116m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	116m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	117m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
K	119m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	152m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
5	171m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	177m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	180m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	182m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	184m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	185m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	190m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	197m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	198m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	201m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
M	203m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	204m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	208m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	208m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	214m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	231m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	23

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 43 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
B	**On site**	**River**	**North Beck Drain**	**GB104029067575**	**Becks Northern**	**Louth Grimsby and Ancholme**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	**1**

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	3593m SE	River	North Beck Drain	GB104029067575 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	**1**

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 43 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
B	**On site**	**North Lincolnshire Chalk Unit**	**GB40401G401500 ↗**	**Poor**	**Poor**	**Poor**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	1

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 48 >**

Distance	Flood risk category
On site	**Very Low**
0 - 50m	Very Low

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	**1**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 48 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	186m N	Lna_2013_12_Tidal_Witham_Haven	2013-12-05 2013-12-05	Sea	Overtopping of defences	Tidal

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

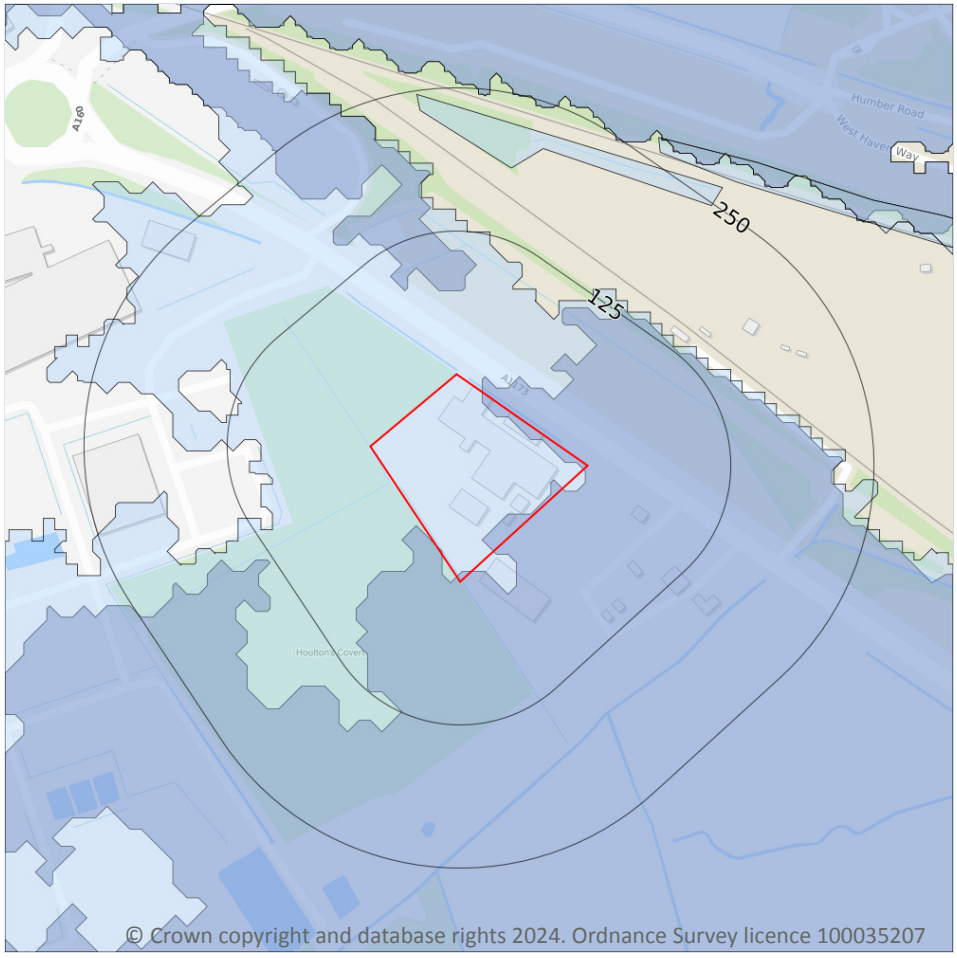
7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 48 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 48 >**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

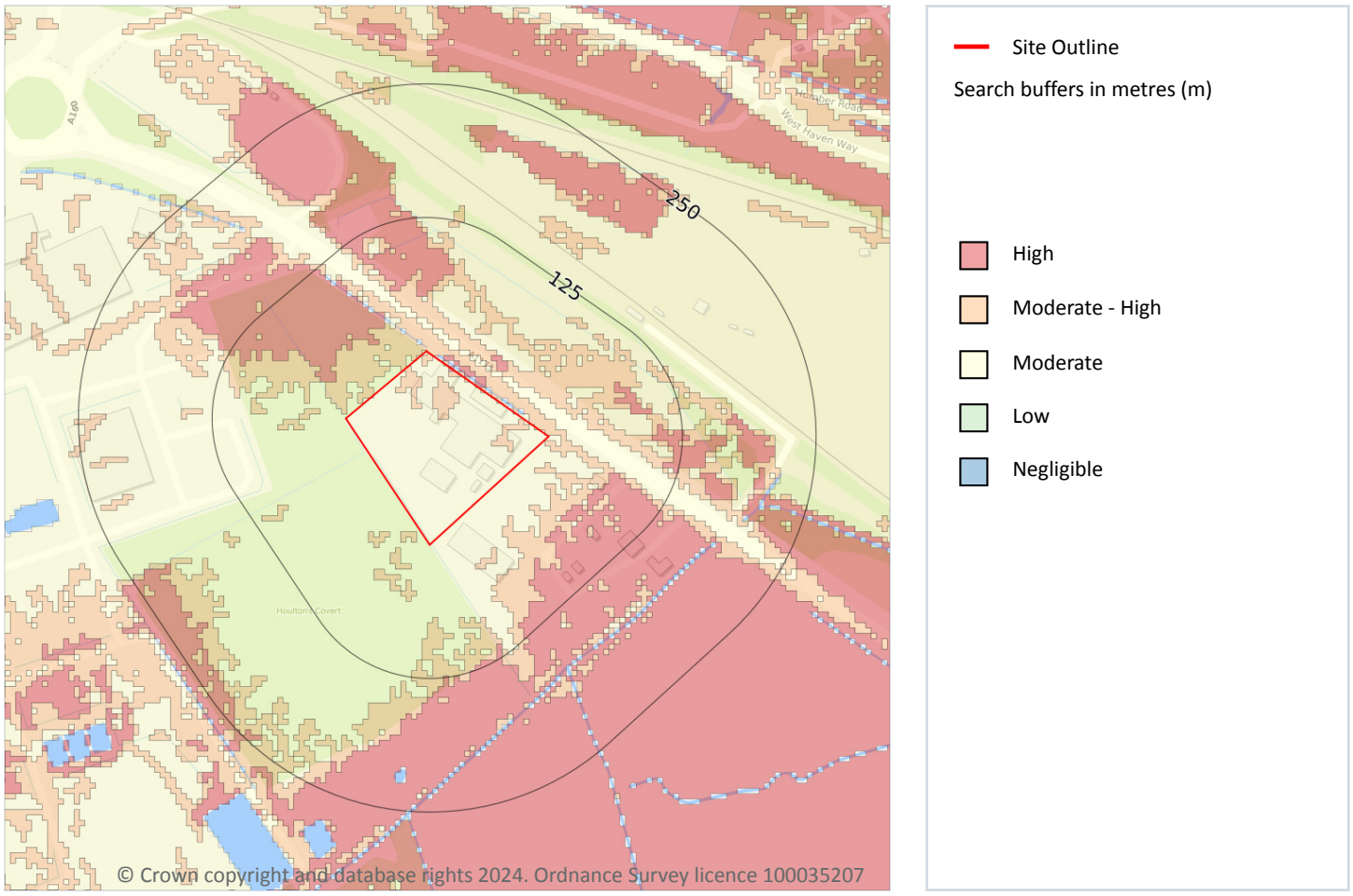
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

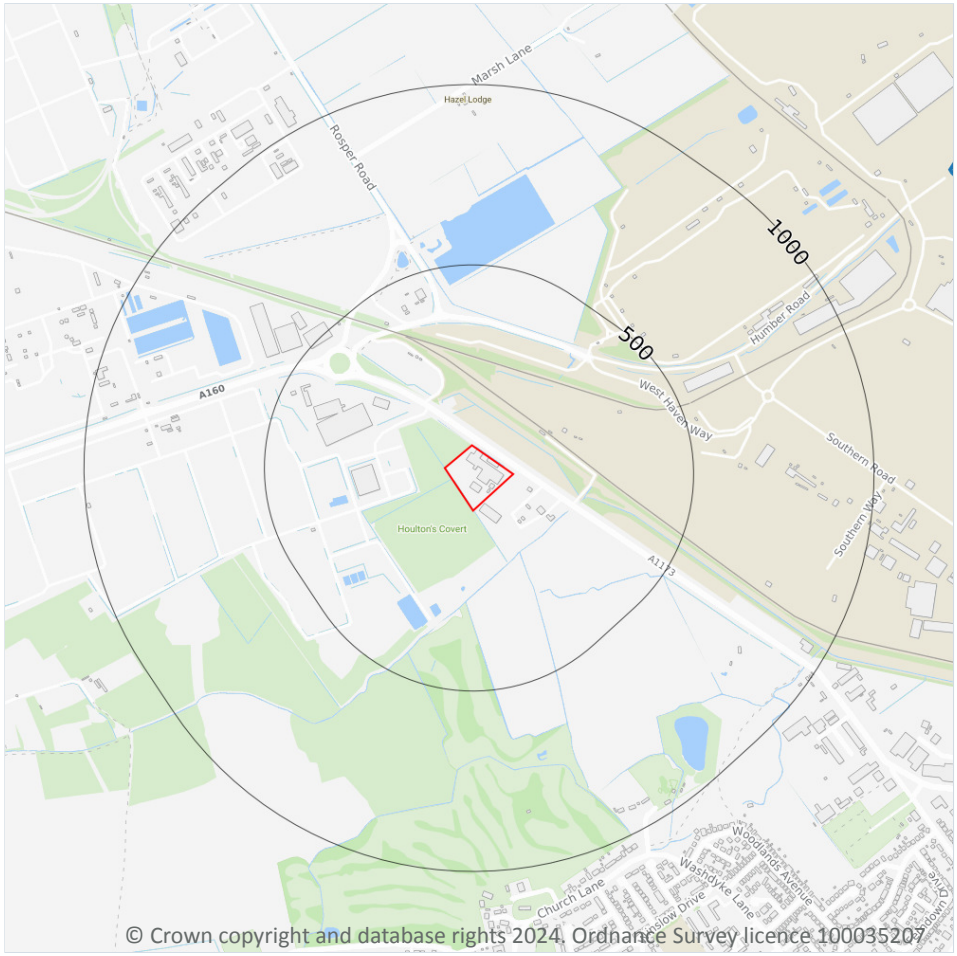
Highest risk on site	**High**
Highest risk within 50m	**High**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 53 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Conserved wetland sites (Ramsar sites)

Special Areas of Conservation (SAC)

Special Protection Areas (SPA)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Data source
A	1476m NE	Humber Estuary	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	2

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Site	Details
1	1476m NE	Name: Humber Estuary Site status: Listed Data source: Natural England	Overview: The Humber Estuary is the largest macro-tidal estuary on the British North Sea coast. It drains a catchment of some 24,240 square kilometres and is the site of the largest single input of freshwater from Britain into the North Sea. It has the second-highest tidal range in Britain (max 7.4 m) and approximately one-third of the estuary is exposed as mud or sand flats at low tide. The inner estuary supports extensive areas of reedbed with areas of mature and developing saltmarsh backed in places by limited areas of grazing marsh in the middle and outer estuary. On the north Lincolnshire coast the saltmarsh is backed by low sand dunes with marshy slacks and brackish pools. The Estuary regularly supports internationally important numbers of waterfowl in winter and nationally important breeding populations in summer. Ramsar criteria: Ramsar criterion 1 The site is a representative example of a near-natural estuary with the following component habitats: dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons. It is a large macro-tidal coastal plain estuary with high suspended sediment loads, which feed a dynamic and rapidly changing system of accreting and eroding intertidal and subtidal mudflats, sandflats, saltmarsh and reedbeds. Examples of both strandline, foredune, mobile, semi-fixed dunes, fixed dunes and dune grassland occur on both banks of the estuary and along the coast. The estuary supports a full range of saline conditions from the open coast to the limit of saline intrusion on the tidal rivers of the Ouse and Trent. Wave exposed sandy shores are found in the outer/open coast areas of the estuary. These change to the more moderately exposed sandy shores and then to sheltered muddy shores within the main body of the estuary and up into the tidal rivers. The lower saltmarsh of the Humber is dominated by common cordgrass Spartina anglica and annual glasswort Salicornia communities. Low to mid marsh communities are mostly represented by sea aster Aster tripolium, common saltmarsh grass Puccinellia maritima and sea purslane Atriplex portulacoides communities. The upper portion of the saltmarsh community is atypical, dominated by sea couch Elytrigia atherica (Elymus pycnanthus) saltmarsh community. In the upper reaches of the estuary, the tidal marsh community is dominated by the common reed Phragmites australis fen and sea club rush Bolboschoenus maritimus swamp with the couch grass Elytrigia repens (Elymus repens) saltmarsh community. Within the Humber Estuary Ramsar site there are good examples of four of the five physiographic types of saline lagoon. Ramsar criterion 3 The Humber Estuary Ramsar site supports a breeding colony of grey seals Halichoerus grypus at Donna Nook. It is the second largest grey seal colony in England and the furthest south regular breeding site on the east coast. The dune slacks at Saltfleetby-Theddlethorpe on the southern extremity of the Ramsar site are the most north-easterly breeding site in Great Britain of the natterjack toad Bufo calamita. Ramsar criterion 5 Assemblages of international importance: 153,934 waterfowl, non-breeding season (5 year peak mean 1996/97-2000/2001) Ramsar criterion 6 – species/populations occurring at levels of international

ID	Location	Site	Details
-	1721m NE	Name: Humber Estuary Site status: Listed Data source: Natural England	Overview: The Humber Estuary is the largest macro-tidal estuary on the British North Sea coast. It drains a catchment of some 24,240 square kilometres and is the site of the largest single input of freshwater from Britain into the North Sea. It has the second-highest tidal range in Britain (max 7.4 m) and approximately one-third of the estuary is exposed as mud or sand flats at low tide. The inner estuary supports extensive areas of reedbed with areas of mature and developing saltmarsh backed in places by limited areas of grazing marsh in the middle and outer estuary. On the north Lincolnshire coast the saltmarsh is backed by low sand dunes with marshy slacks and brackish pools. The Estuary regularly supports internationally important numbers of waterfowl in winter and nationally important breeding populations in summer. Ramsar criteria: Ramsar criterion 1 The site is a representative example of a near-natural estuary with the following component habitats: dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, and coastal brackish/saline lagoons. It is a large macro-tidal coastal plain estuary with high suspended sediment loads, which feed a dynamic and rapidly changing system of accreting and eroding intertidal and subtidal mudflats, sandflats, saltmarsh and reedbeds. Examples of both strandline, foredune, mobile, semi-fixed dunes, fixed dunes and dune grassland occur on both banks of the estuary and along the coast. The estuary supports a full range of saline conditions from the open coast to the limit of saline intrusion on the tidal rivers of the Ouse and Trent. Wave exposed sandy shores are found in the outer/open coast areas of the estuary. These change to the more moderately exposed sandy shores and then to sheltered muddy shores within the main body of the estuary and up into the tidal rivers. The lower saltmarsh of the Humber is dominated by common cordgrass Spartina anglica and annual glasswort Salicornia communities. Low to mid marsh communities are mostly represented by sea aster Aster tripolium, common saltmarsh grass Puccinellia maritima and sea purslane Atriplex portulacoides communities. The upper portion of the saltmarsh community is atypical, dominated by sea couch Elytrigia atherica (Elymus pycnanthus) saltmarsh community. In the upper reaches of the estuary, the tidal marsh community is dominated by the common reed Phragmites australis fen and sea club rush Bolboschoenus maritimus swamp with the couch grass Elytrigia repens (Elymus repens) saltmarsh community. Within the Humber Estuary Ramsar site there are good examples of four of the five physiographic types of saline lagoon. Ramsar criterion 3 The Humber Estuary Ramsar site supports a breeding colony of grey seals Halichoerus grypus at Donna Nook. It is the second largest grey seal colony in England and the furthest south regular breeding site on the east coast. The dune slacks at Saltfleetby-Theddlethorpe on the southern extremity of the Ramsar site are the most north-easterly breeding site in Great Britain of the natterjack toad Bufo calamita. Ramsar criterion 5 Assemblages of international importance: 153,934 waterfowl, non-breeding season (5 year peak mean 1996/97-2000/2001) Ramsar criterion 6 – species/populations occurring at levels of international

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Features of interest	Habitat description	Data source
A	1476m NE	Humber Estuary	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Dunes with sea-buckthorn; Sea lamprey; River lamprey; Allis shad; Twaite shad; Grey seal; Common seal.	Bogs, Marshes, Water fringed vegetation, Fens; Salt marshes, Salt pastures, Salt steppes; Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	1

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on **page 54 >**

ID	Location	Name	Species of interest	Habitat description	Data source
A	1476m NE	Humber Estuary	Great bittern; Great bittern; Common shelduck; Eurasian wigeon; Eurasian teal; Mallard; Common pochard; Greater scaup; Common goldeneye; Eurasian marsh harrier; Hen harrier; Eurasian oystercatcher; Pied avocet; Pied avocet; Ringed plover; Ringed plover; European golden plover; Grey plover; Grey plover; Northern lapwing; Red knot; Red knot; Sanderling; Sanderling; Ruff; Bar-tailed godwit; Whimbrel; Eurasian curlew; Common redshank; Common redshank; Common greenshank; Ruddy turnstone; Little tern; Black-tailed godwit; Black-tailed godwit; Dunlin; Dunlin; Dark-bellied brent goose	Salt marshes, Salt pastures, Salt steppes; Inland water bodies (Standing water, Running water); Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	4

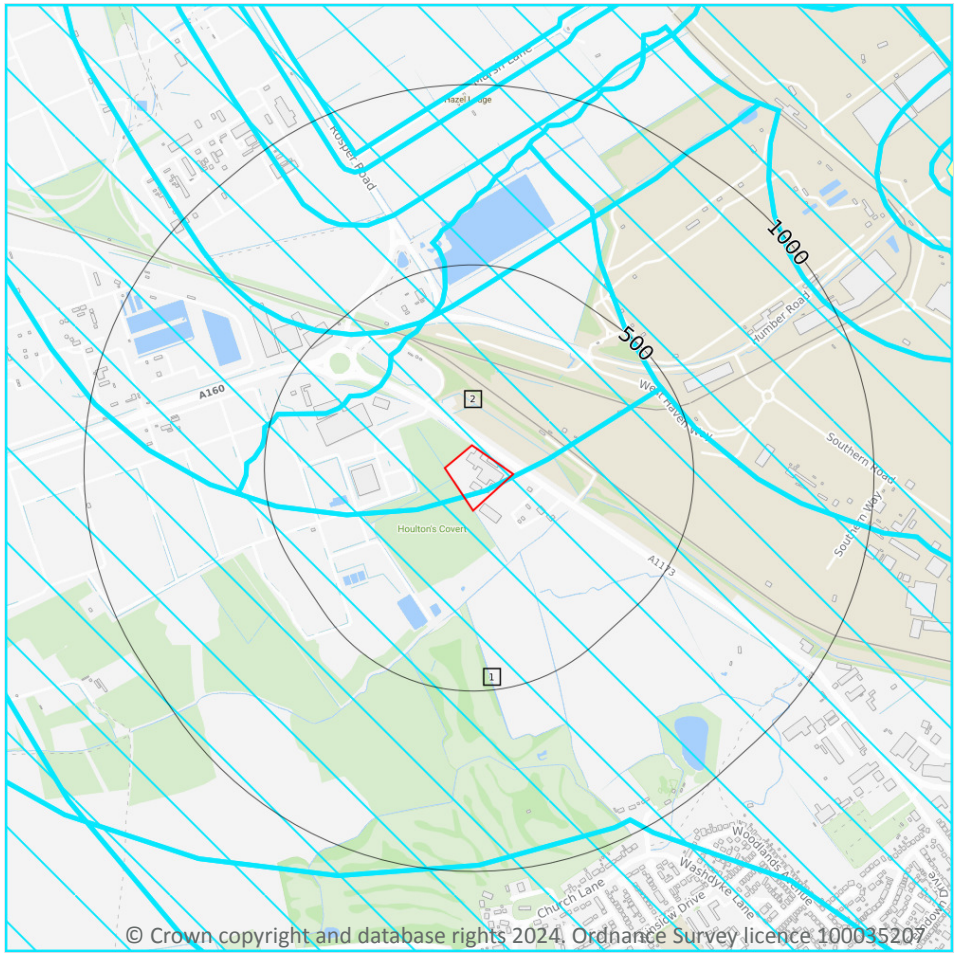
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**North Beck Drain NVZ**	**Surface Water**	**359**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**Lincolnshire Chalk**	**Groundwater**	**80**	**Existing**
201m S	North Beck Drain NVZ	Surface Water	359	Existing
235m SW	Lincolnshire Chalk	Groundwater	80	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 63 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 50 units or more.** **Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.** **Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).** **Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.** **Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.** **Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.** **Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

ID	Location	Type of developments requiring consultation
2	On site	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**4**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 63 >**

ID:	14
Location:	1476m NE
SSSI name:	Humber Estuary
Unit name:	Pipeline Jetty To South Killingholme Haven
Broad habitat:	Littoral Sediment
Condition:	Unfavourable - Recovering
Reportable features:	

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-

Feature name	Feature condition	Date of assessment
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1721m NE
SSSI name: Humber Estuary
Unit name: Hit To Second Jetty
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - Declining	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022

Feature name	Feature condition	Date of assessment
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
H1310 Salicornia and other annuals colonising mud and sand	Favourable	24/02/2022
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	24/02/2022
Invert. assemblage M3 saltmarsh, estuary and mudflat	-	-
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Marsh Harrier, Circus aeruginosus - A081, b	Favourable	21/04/2022
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022

Feature name	Feature condition	Date of assessment
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
SM4-28 - Saltmarsh	Favourable	24/02/2022
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1862m N
SSSI name: Humber Estuary
Unit name: Jetty To North Killingholme Haven
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Avocet, Recurvirostra avosetta	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	29/03/2022
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Favourable	29/03/2022
Aggregations of non-breeding birds - Greenshank, Tringa nebularia	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Knot, Calidris canutus	Favourable	29/03/2022
Aggregations of non-breeding birds - Lapwing, Vanellus vanellus	Unfavourable - No change	29/03/2022

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus	Favourable	29/03/2022
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Ruff, Philomachus pugnax	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Unfavourable - No change	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Unfavourable - Declining	29/03/2022
Aggregations of non-breeding birds - Whimbrel, Numenius phaeopus	Favourable	29/03/2022
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - Declining	29/03/2022
Avocet, Recurvirostra avosetta - A132-A, nb	Favourable	29/03/2022
Bar-tailed godwit, Limosa lapponica - A157, nb	Unfavourable - Declining	29/03/2022
Bar-tailed godwit, Limosa lapponica - Wintering	-	-
Black-tailed godwit, Limosa limosa - Wintering	-	-
Black-tailed godwit, Limosa limosa islandica - A616, nb	Favourable	29/03/2022
Dunlin, Calidris alpina - Passage	-	-
Dunlin, Calidris alpina - Wintering	-	-
Dunlin, Calidris alpina alpina - A672, nb	Unfavourable - No change	29/03/2022
Estuaries	-	-
Estuary	-	-
Golden plover, Pluvialis apricaria - A140, nb	Favourable	29/03/2022
Golden plover, Pluvialis apricaria - Passage	-	-
Golden plover, Pluvialis apricaria - Wintering	-	-
H1130 Estuaries	-	-
H1140 Mudflats and sandflats not covered by seawater at low tide	-	-
H1310 Salicornia and other annuals colonising mud and sand	Favourable	24/02/2022
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	24/02/2022
Invert. assemblage M3 saltmarsh, estuary and mudflat	-	-

Feature name	Feature condition	Date of assessment
Knot, Calidris canutus - A143, nb	Favourable	29/03/2022
Knot, Calidris canutus - Passage	-	-
Knot, Calidris canutus - Wintering	-	-
Littoral sediment	Unfavourable - Recovering	30/03/2010
Marsh Harrier, Circus aeruginosus - A081, b	Favourable	21/04/2022
Redshank, Tringa totanus - A162, nb	Unfavourable - Declining	29/03/2022
Redshank, Tringa totanus - Passage	-	-
Redshank, Tringa totanus - Wintering	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	-	-
Ruff, Calidris pugnax - A151, nb	Unfavourable - No change	29/03/2022
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
SM4-28 - Saltmarsh	Favourable	24/02/2022
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	-	-
Shelduck, Tadorna tadorna - A048, nb	Favourable	29/03/2022
Shelduck, Tadorna tadorna - Wintering	-	-
Waterbird assemblage - Wintering	-	-
Waterbird assemblage	Favourable	29/03/2022

ID: -
Location: 1896m NE
SSSI name: Humber Estuary
Unit name: Humber Bridge To Grimsby Dock Subtidal
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Pochard, Aythya ferina	Unfavourable - Declining	29/03/2022

Feature name	Feature condition	Date of assessment
Estuaries	Unfavourable - Recovering	21/12/2010
Estuary	-	-
H1110 Sandbanks which are slightly covered by sea water all the time	-	-
H1130 Estuaries	-	-
River lamprey, Lampetra fluviatilis - Passage	-	-
River lamprey, Lampetra fluviatilis	Unfavourable - Recovering	21/12/2010
S1095 Sea lamprey, Petromyzon marinus	-	-
S1099 River lamprey, Lampetra fluviatilis	-	-
Sea lamprey, Petromyzon marinus - Passage	-	-
Sea lamprey, Petromyzon marinus	Unfavourable - Recovering	21/12/2010
Waterbird assemblage - Wintering	-	-

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

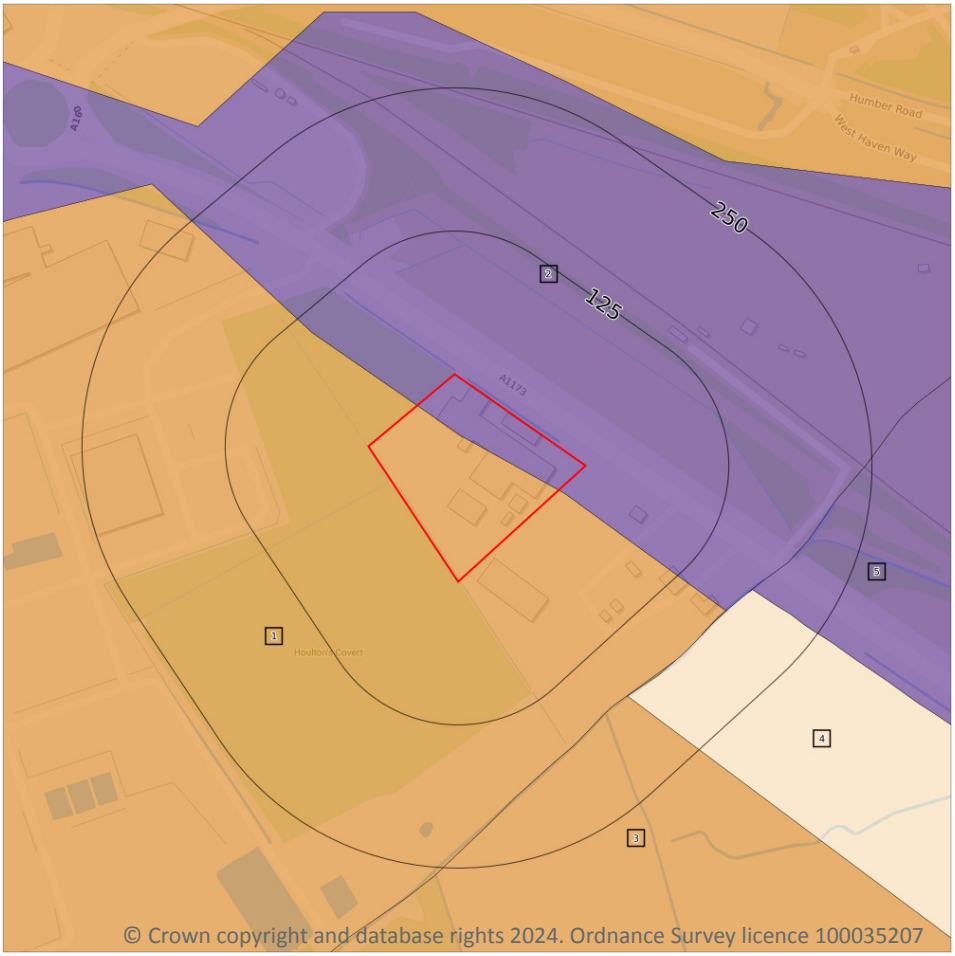
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	5

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 74 >**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	On site	Urban	Non-agricultural/no quality assigned

ID	Location	Classification	Description
3	171m SE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
4	173m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
5	176m SE	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	**0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**1**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
171m SE	AG00314086	Entry Level plus Higher Level Stewardship	01/10/2011	30/09/2021

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

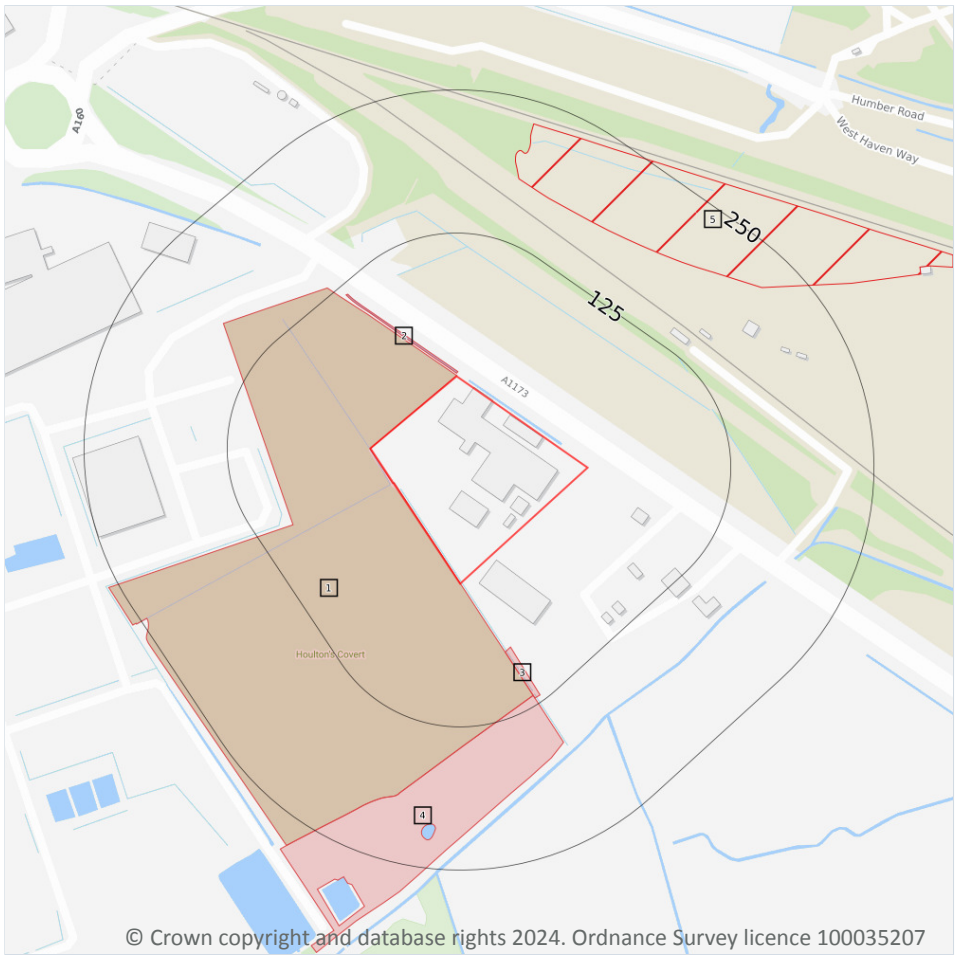
Records within 250m	2

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
171m SE	1430000	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
171m SE	1272162	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	4

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 77 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	3m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	71m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	117m S	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on **page 77 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
5	175m N	HLD_refs: EAHLD35782	Low	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 79 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**No coverage**	**No coverage**	**No coverage**	**NoCov**

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

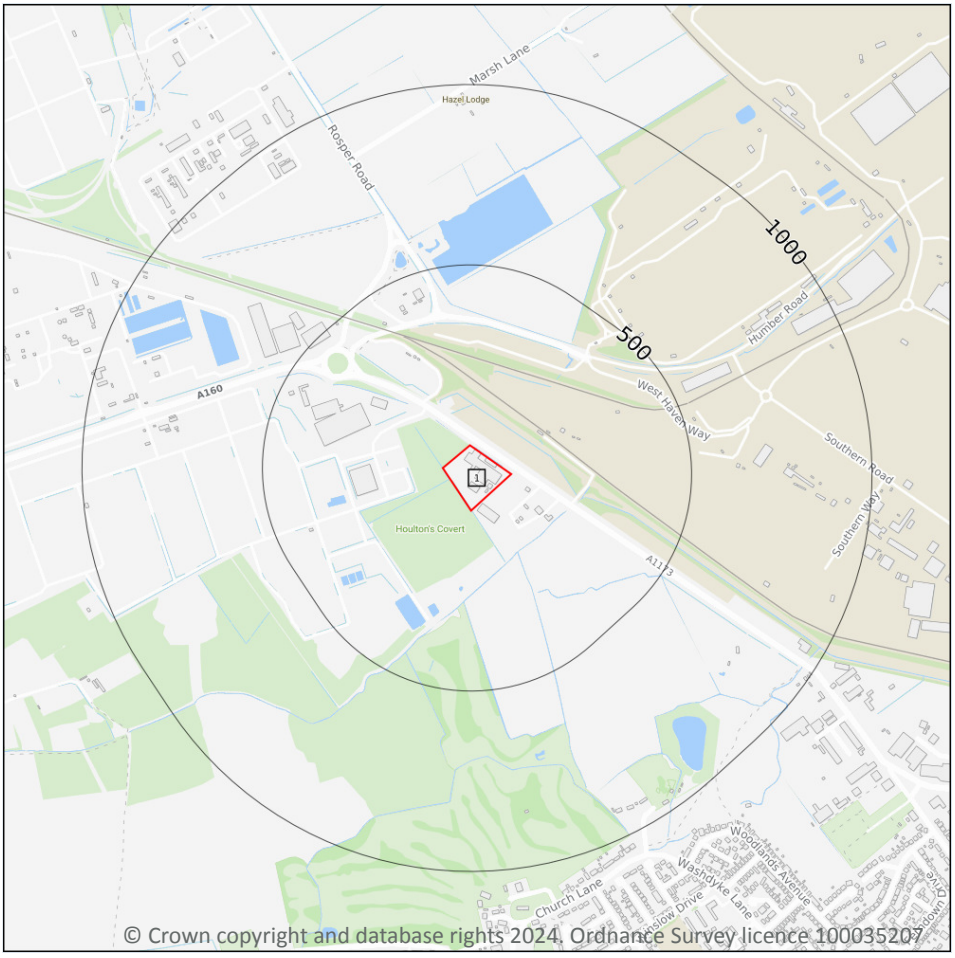
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

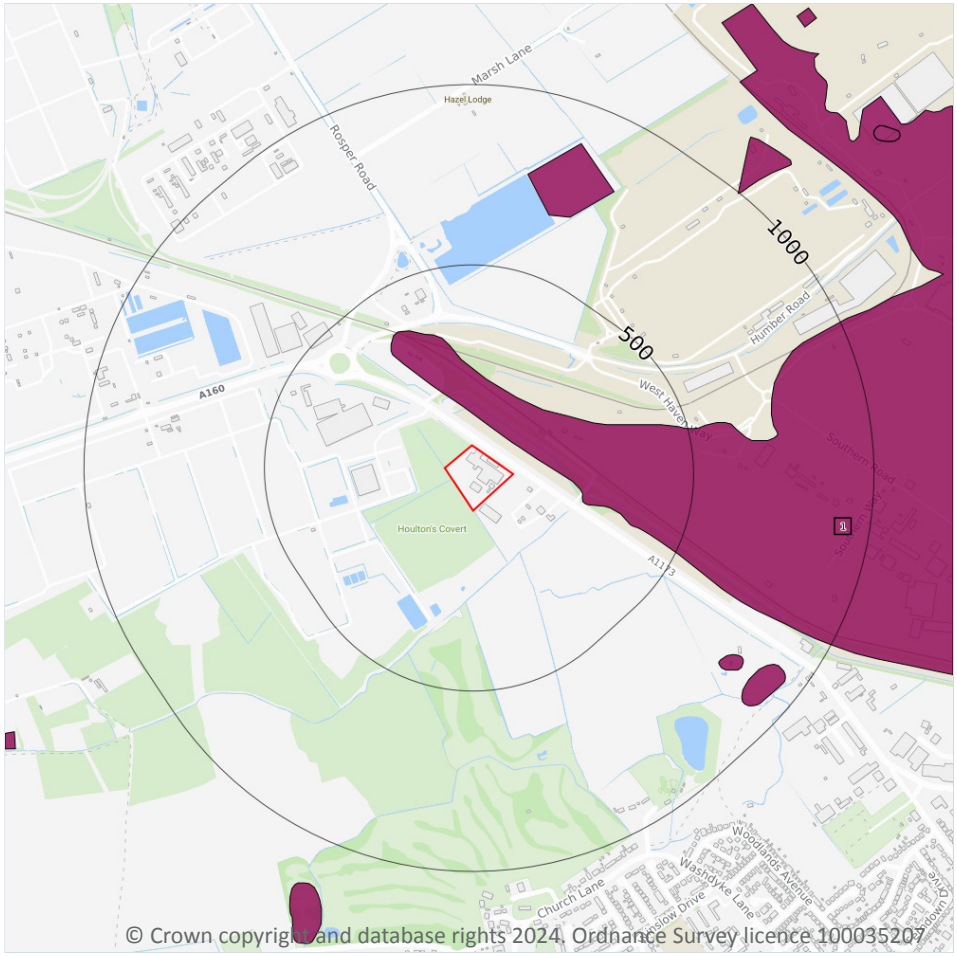
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 83 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW081_082_patrington_and_spurn_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 84 >**

ID	Location	LEX Code	Description	Rock description
1	70m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

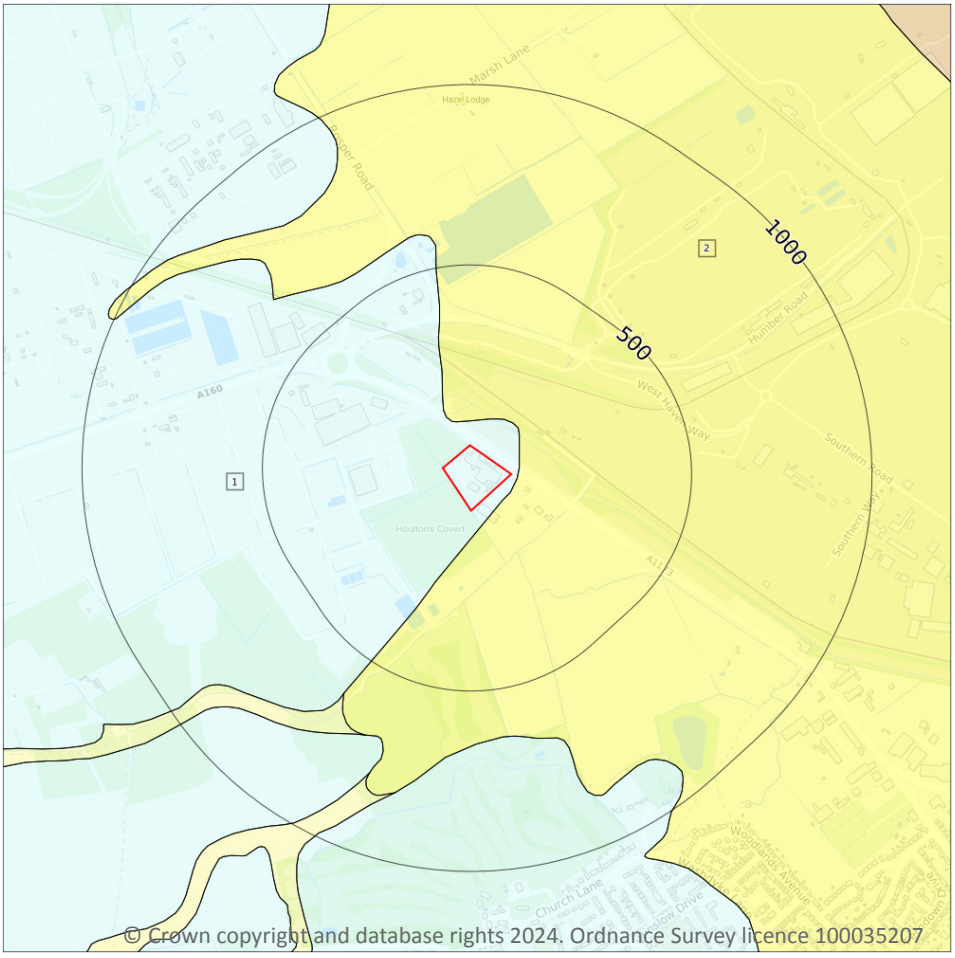
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **2**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 85 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	19m E	TFD-XCZ	TIDAL FLAT DEPOSITS	CLAY AND SILT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**
19m E	Intergranular	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 87 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**BCK-CHLK**	**BURNHAM CHALK FORMATION - CHALK**	**TURONIAN**

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	1

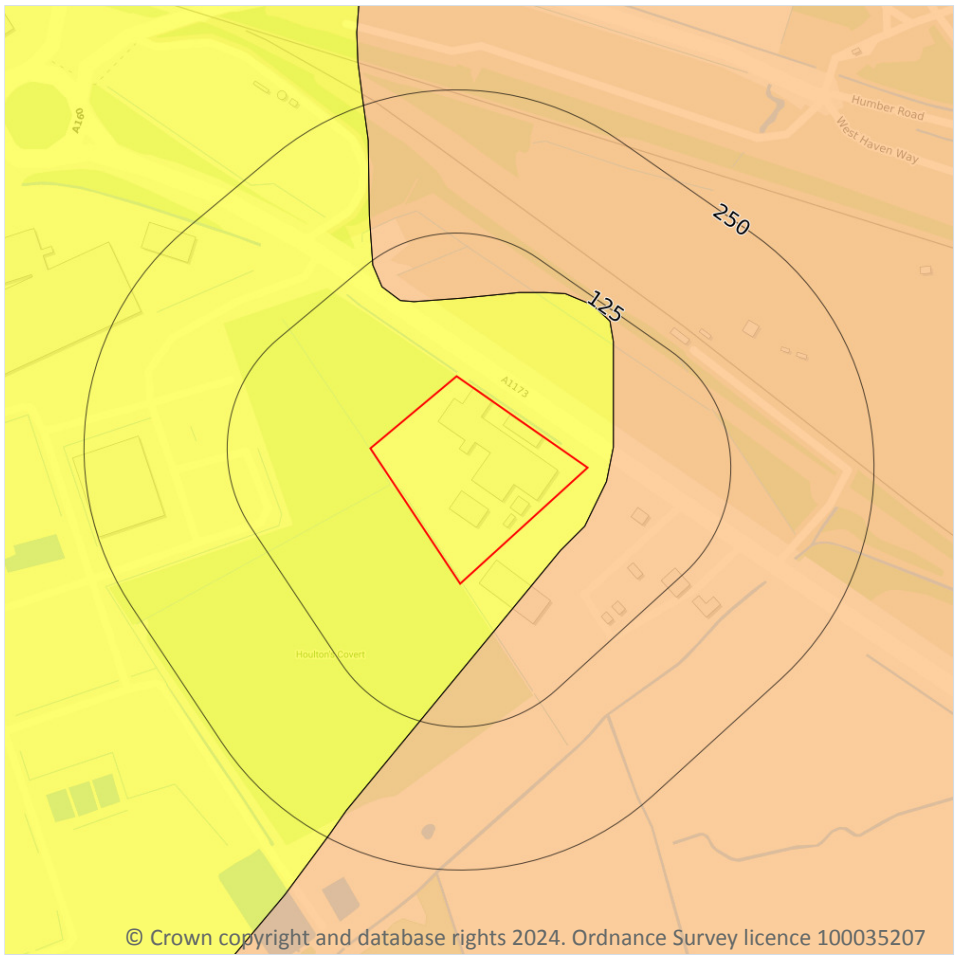
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 89 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	153m SE	517580 416160	IMMINGHAM DOCK JOBSONS FIELD 9	64.01	N	461254 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

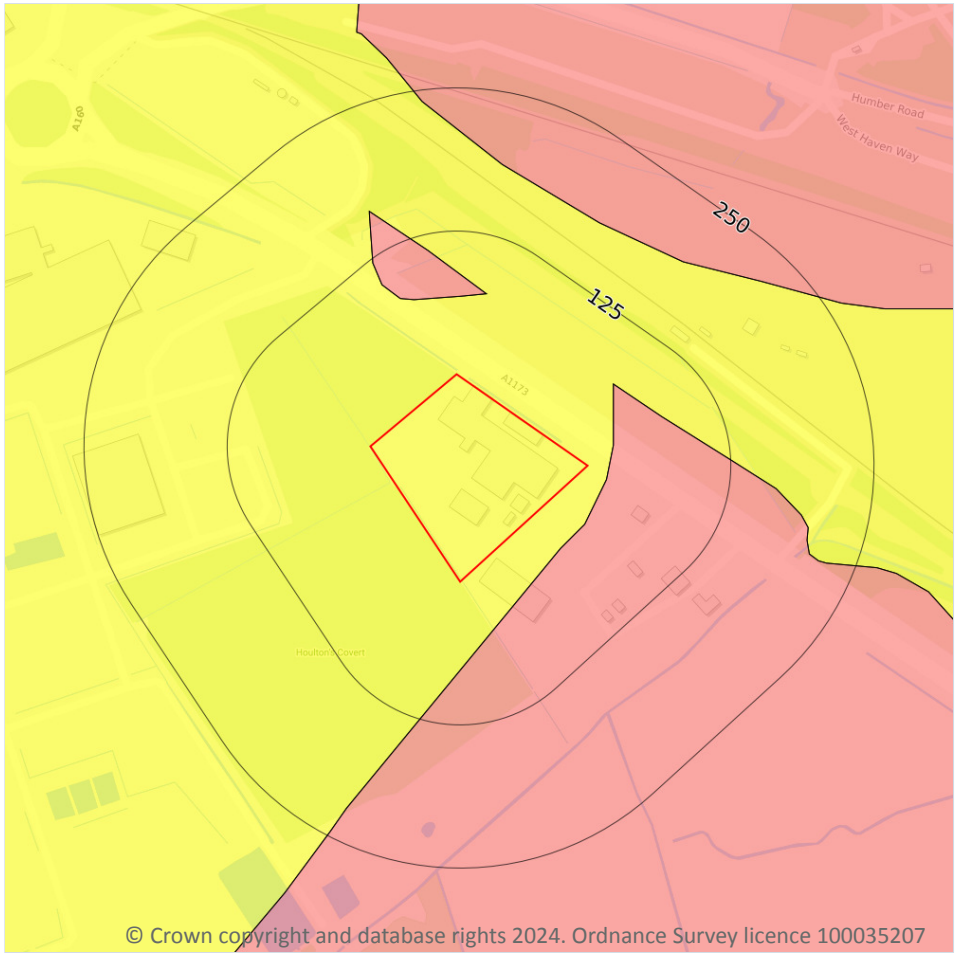
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 90 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
19m E	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

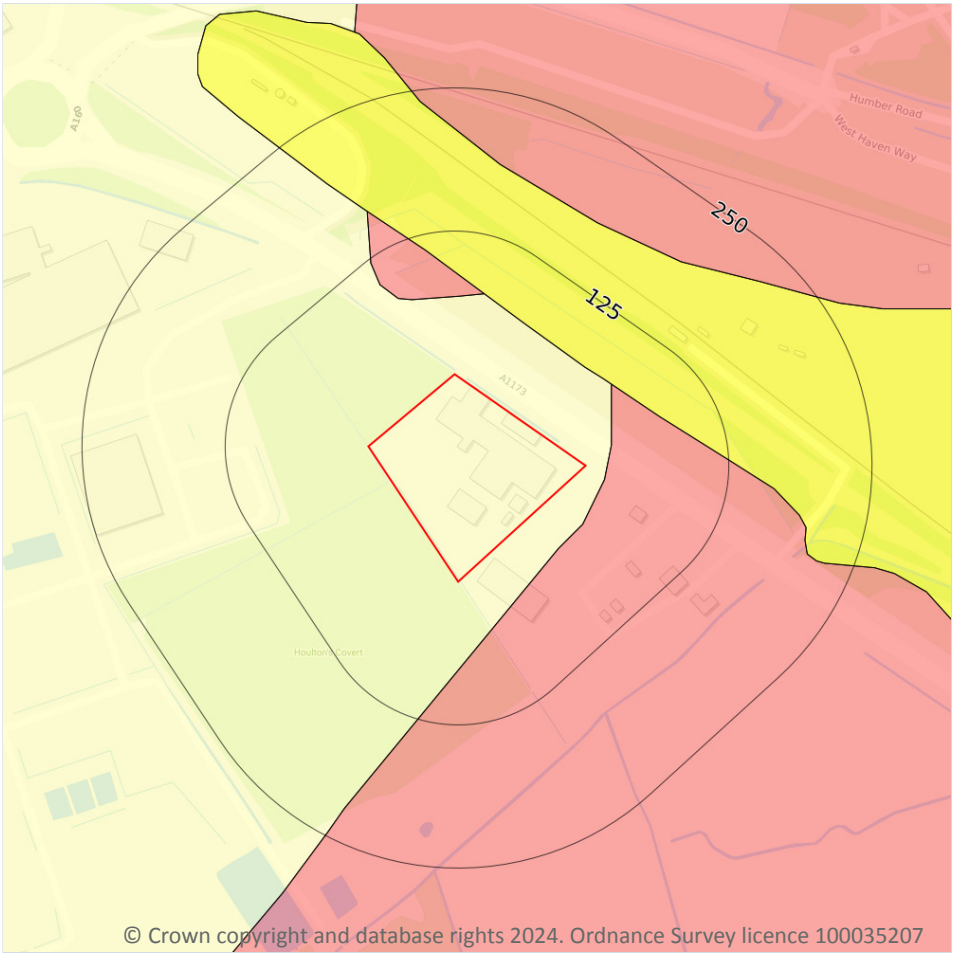
Features are displayed on the Natural ground subsidence - Running sands map on **page 91 >**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

Location	Hazard rating	Details
19m E	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	2

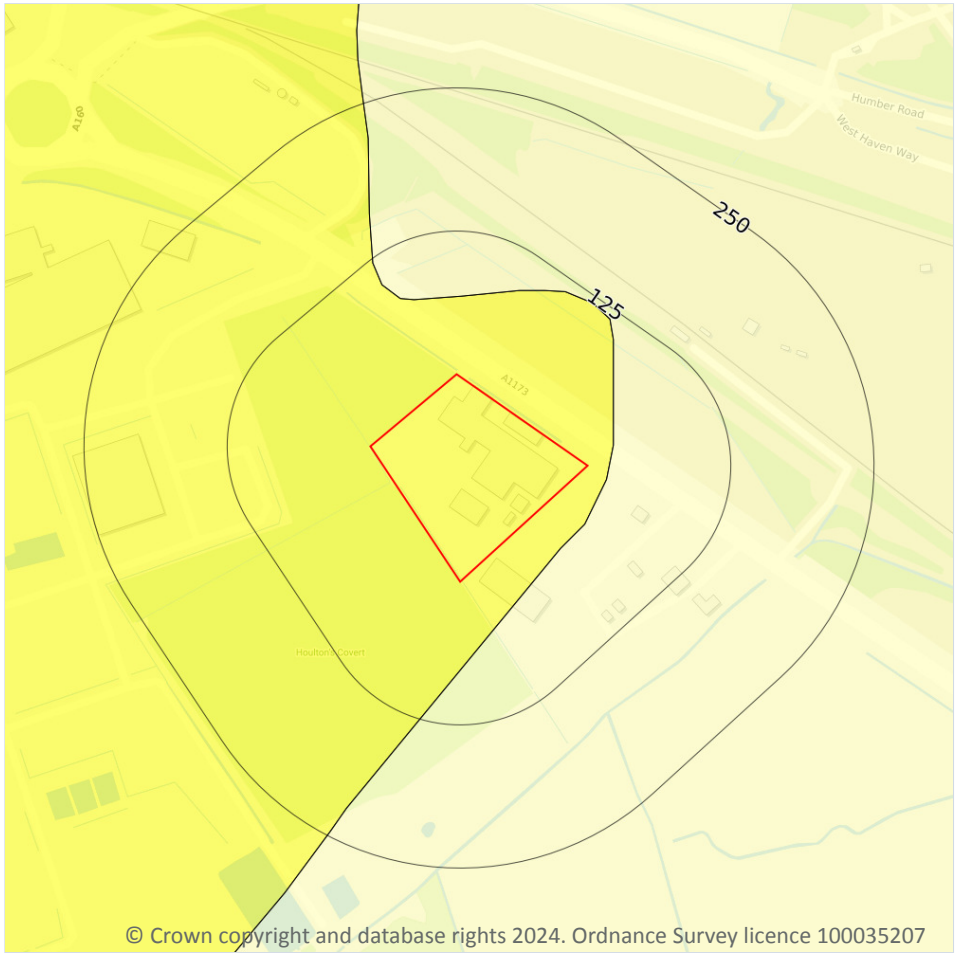
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 92 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
19m E	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	2

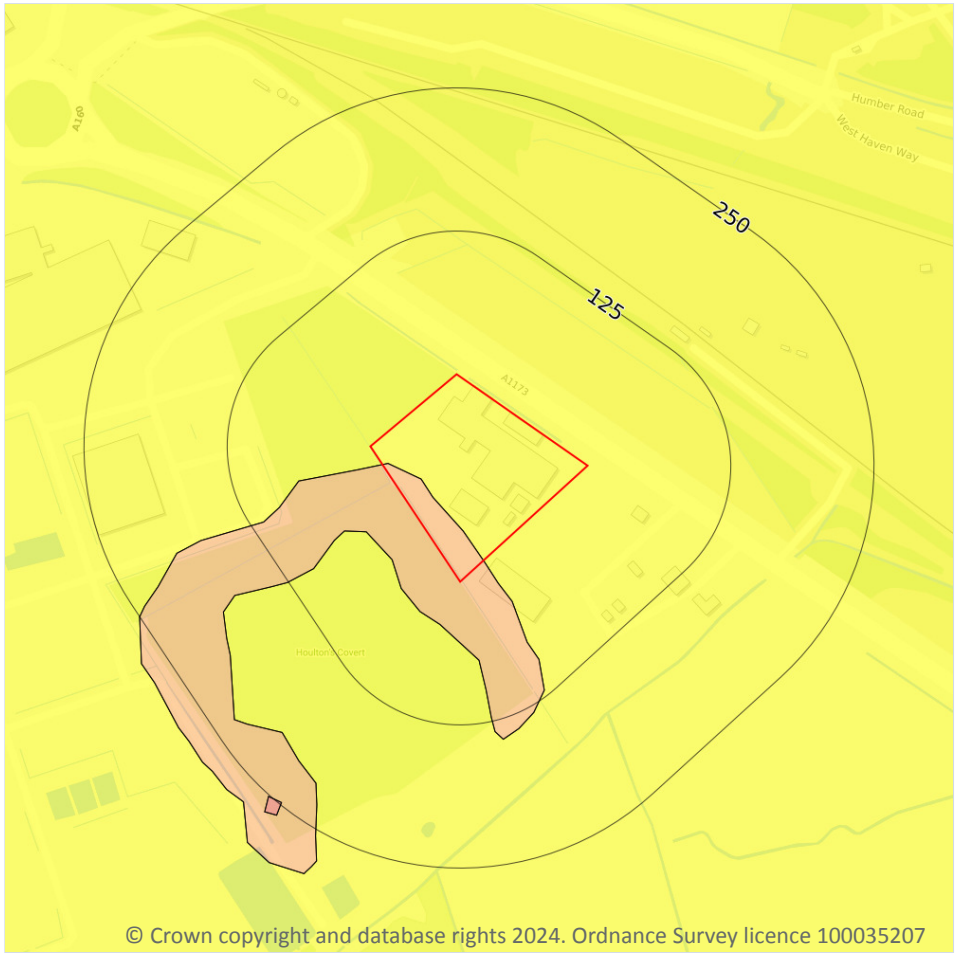
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 93 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
19m E	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

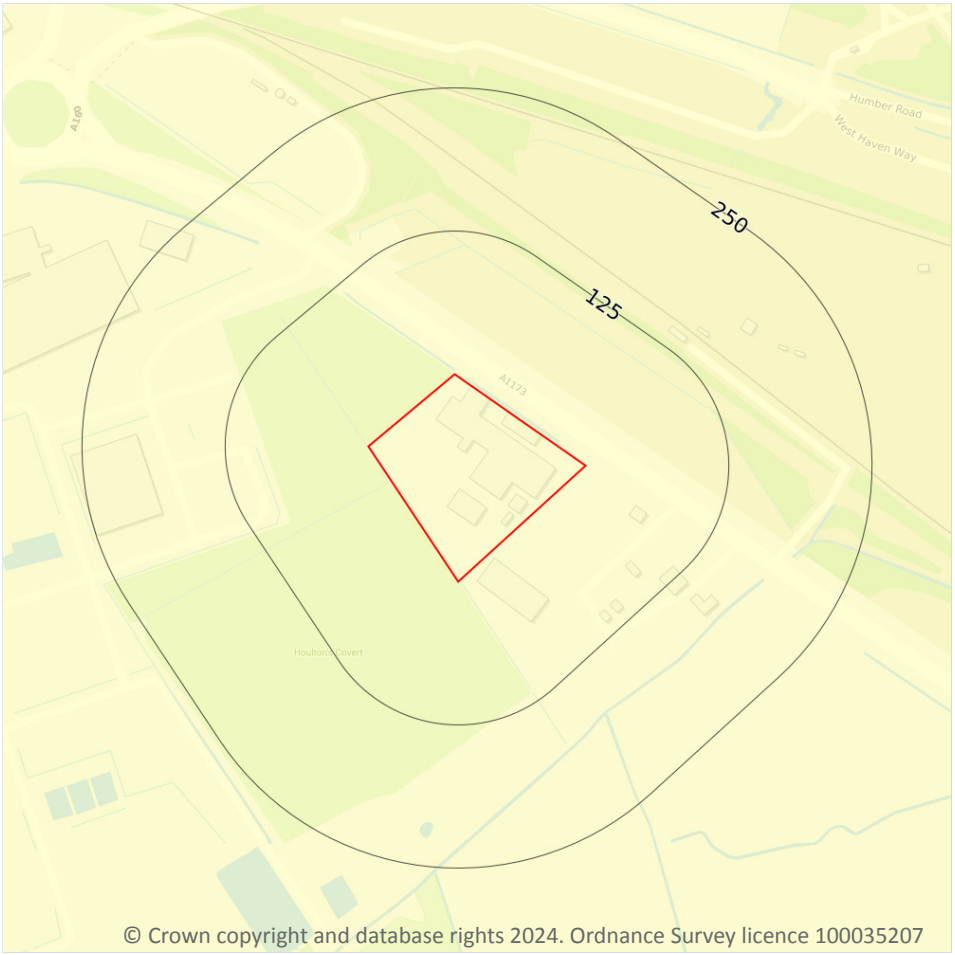
Features are displayed on the Natural ground subsidence - Landslides map on **page 94 >**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

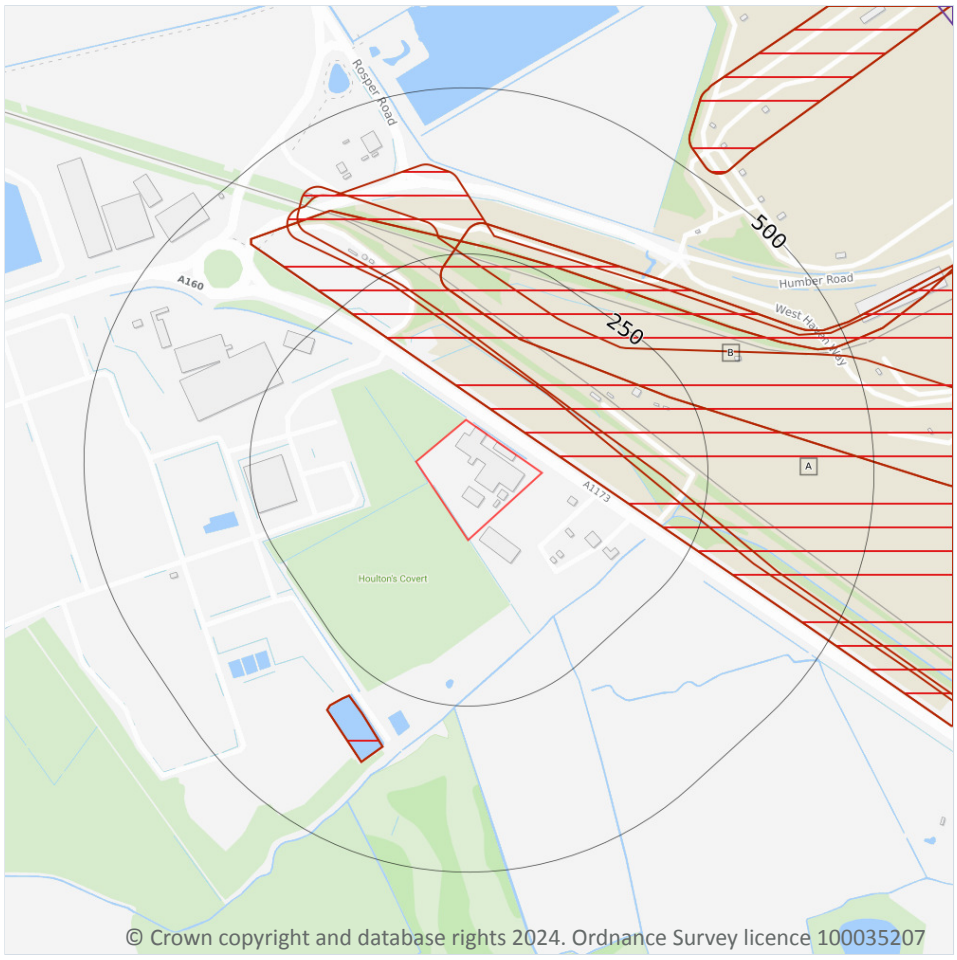
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 95 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	6

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 96 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	34m N	Dock	1947	1:10560
A	34m N	Dock	1947	1:10560
A	97m NE	Docks	1951	1:10560
A	103m NE	Dock	1968	1:10560
B	146m N	Docks	1974	1:10000
B	146m N	Docks	1983	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

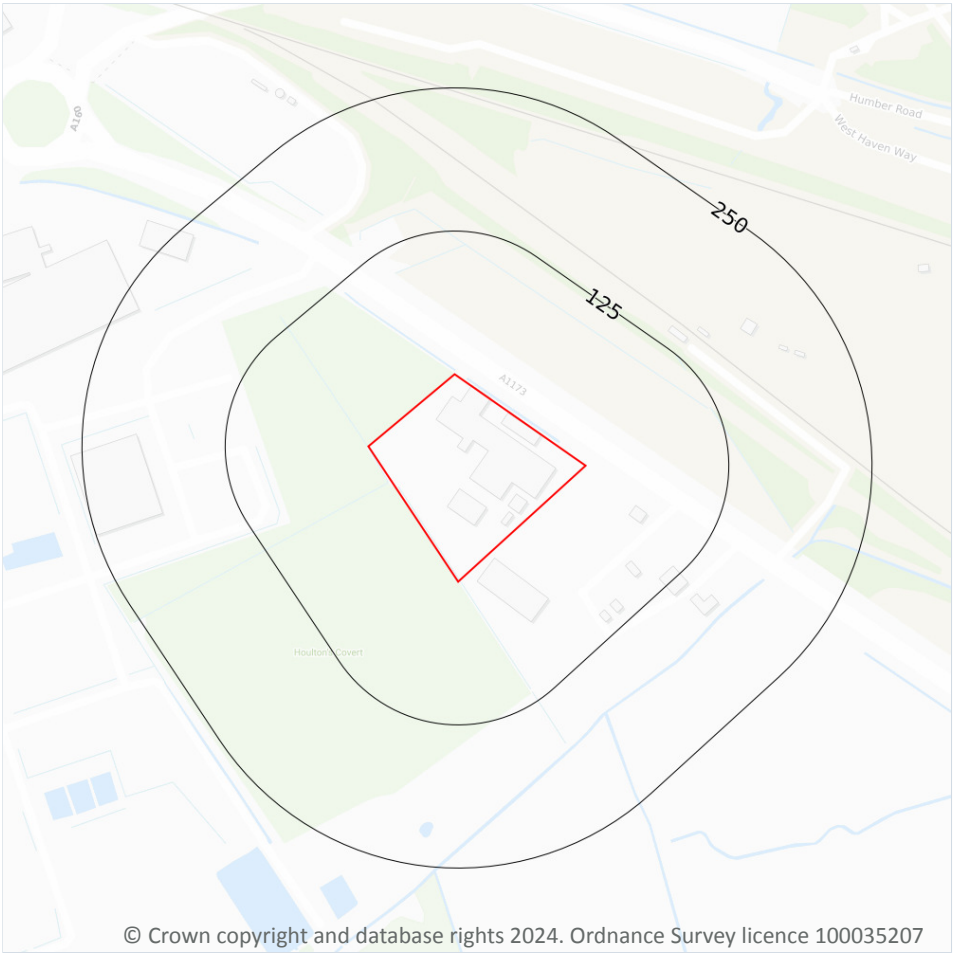
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 102 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
5m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
12m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
24m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

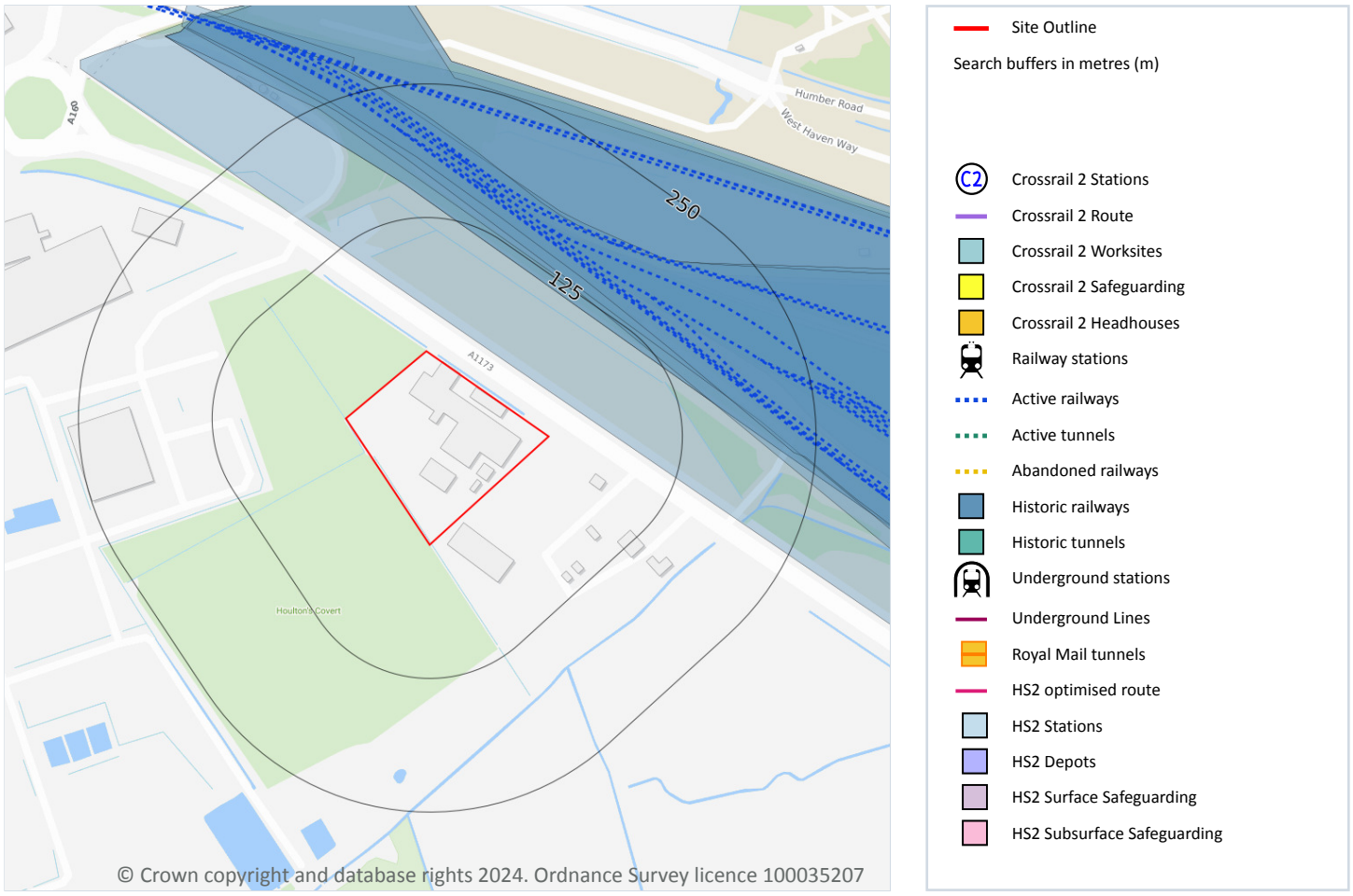
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	12

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 104 >**

Location	Land Use	Year of mapping	Mapping scale
34m N	Railway Sidings	1947	10560
115m NE	Railway Sidings	1974	10000
115m NE	Railway Sidings	1983	10000
122m NE	Railway Sidings	1951	10560
128m NE	Railway Sidings	1968	10560
135m NE	Railway Sidings	1930	10560
150m NE	Railway Sidings	1932	2500
153m NE	Railway Sidings	1973	2500
153m NE	Railway Sidings	1964	2500
153m NE	Railway Sidings	1982	2500
224m NE	Railway Sidings	1982	2500
225m NE	Railway Sidings	1973	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	22

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 104 >**

Location	Name	Type
147m NE	Brocklesby and Immingham Branch	rail
149m NE	Not given	Multi Track
149m NE	Not given	Multi Track
151m NE	Brocklesby and Immingham Branch	rail
151m NE	Not given	Multi Track
157m NE		rail
159m NE		rail
161m N	Shunt Spur	rail
162m NE		rail
165m N		rail
169m N	Not given	Multi Track
169m N		rail

Location	Name	Type
179m N		rail
182m NE		rail
185m E	Not given	Multi Track
205m N	Not given	Single Track
209m E		rail
212m N	Brocklesby and Immingham Branch	rail
227m E		rail
231m N	Killingholme Branch	rail
234m N	Not given	Multi Track
234m N	Killingholme Branch	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

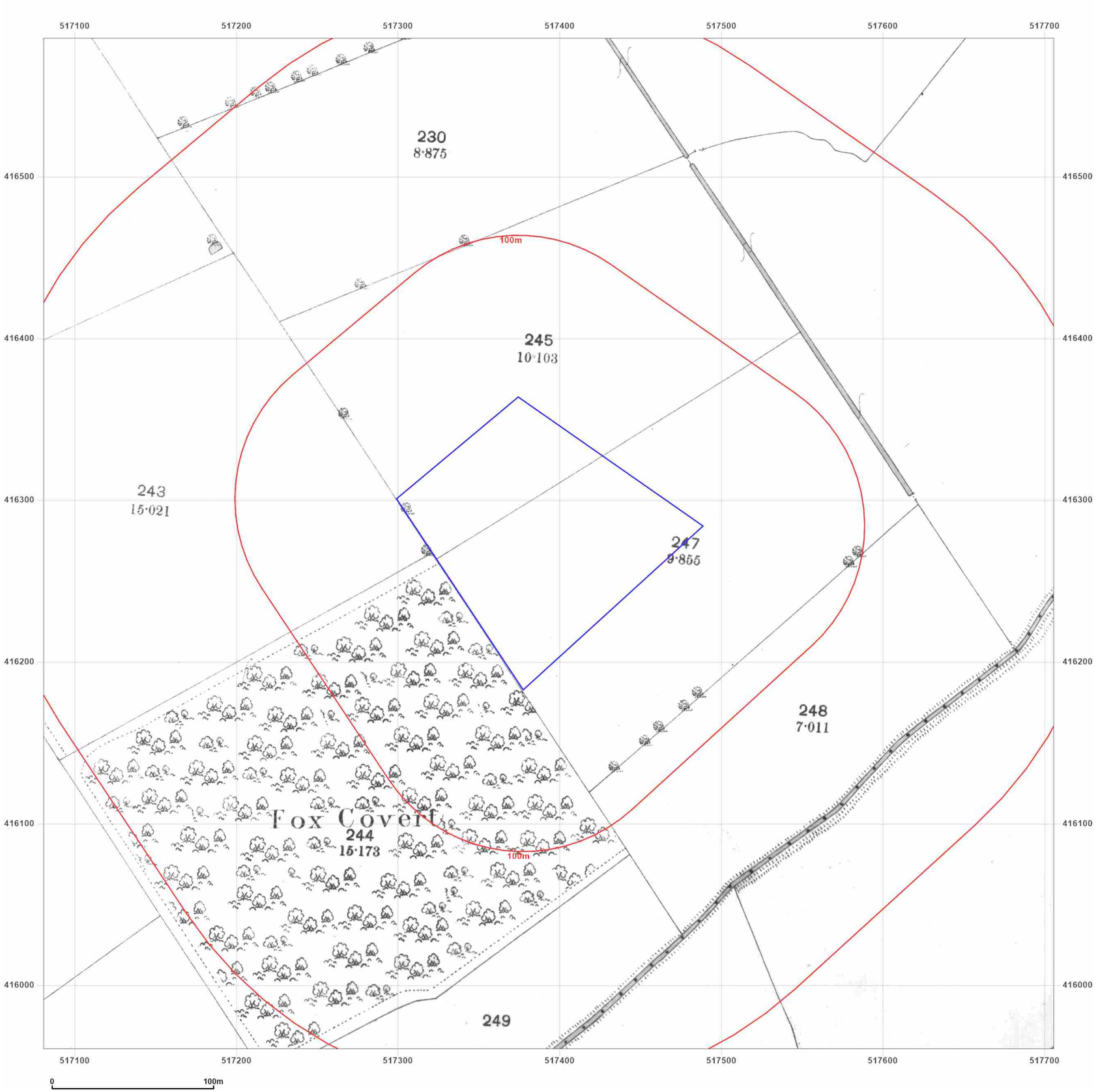
This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1887**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1887
Revised 1887
Edition N/A
Copyright N/A
Levelled N/A

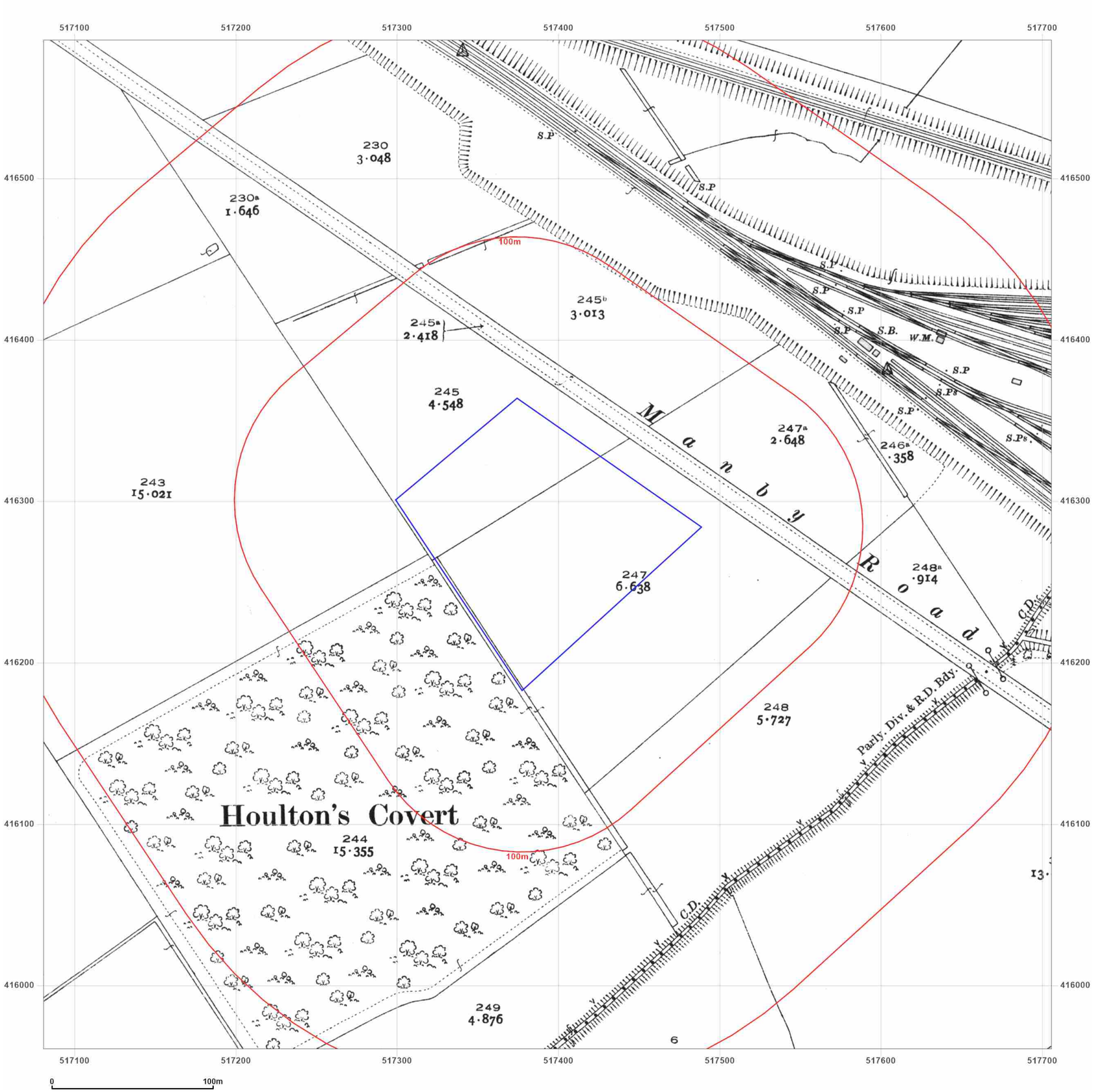
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1932**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1932
Revised 1932
Edition N/A
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Levelled N/A

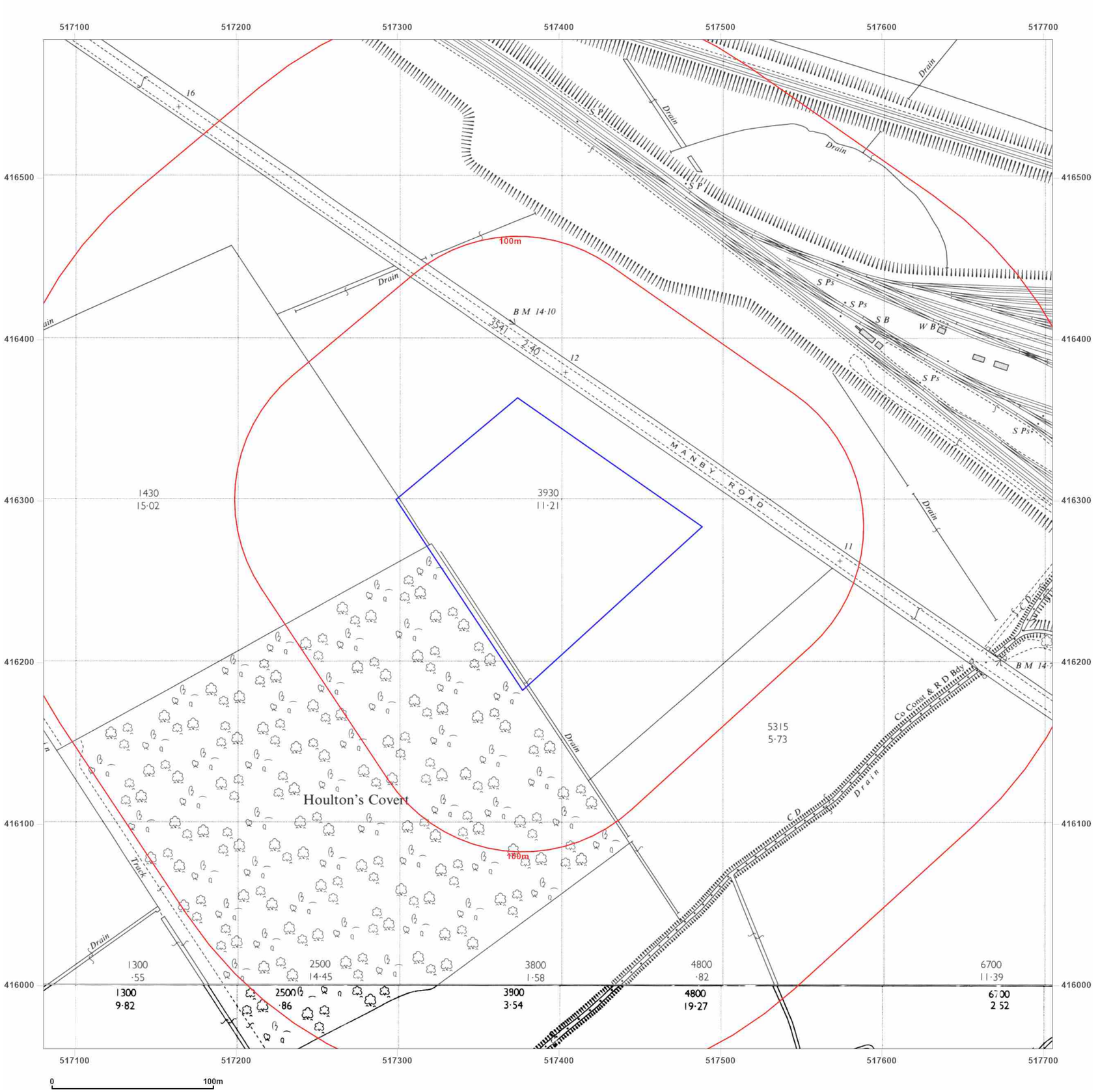
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Groundsure INSIGHTS

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1964
Levelled 1951

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

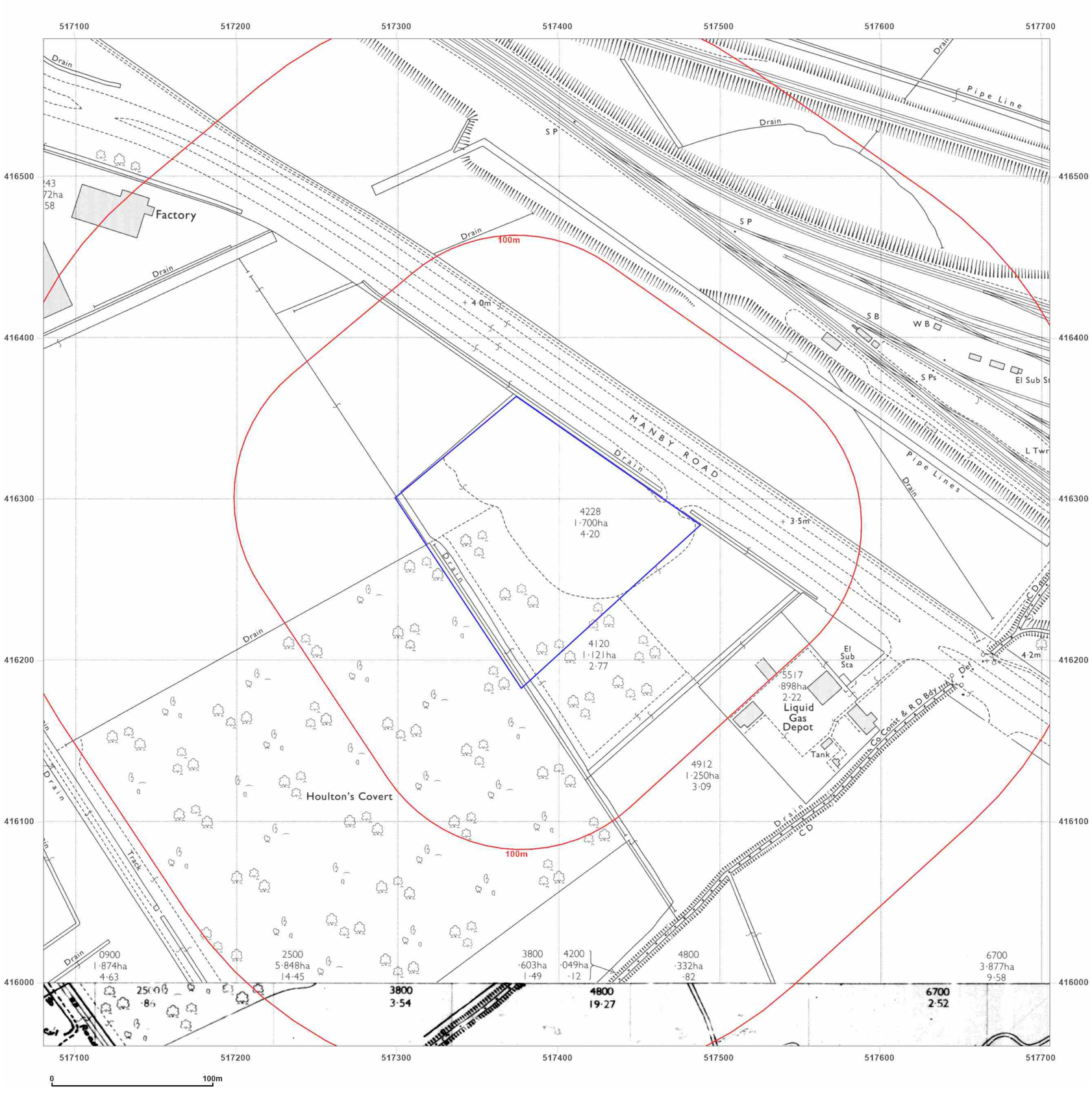
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

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Edition N/A
Copyright 1973
Levelled 1969

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

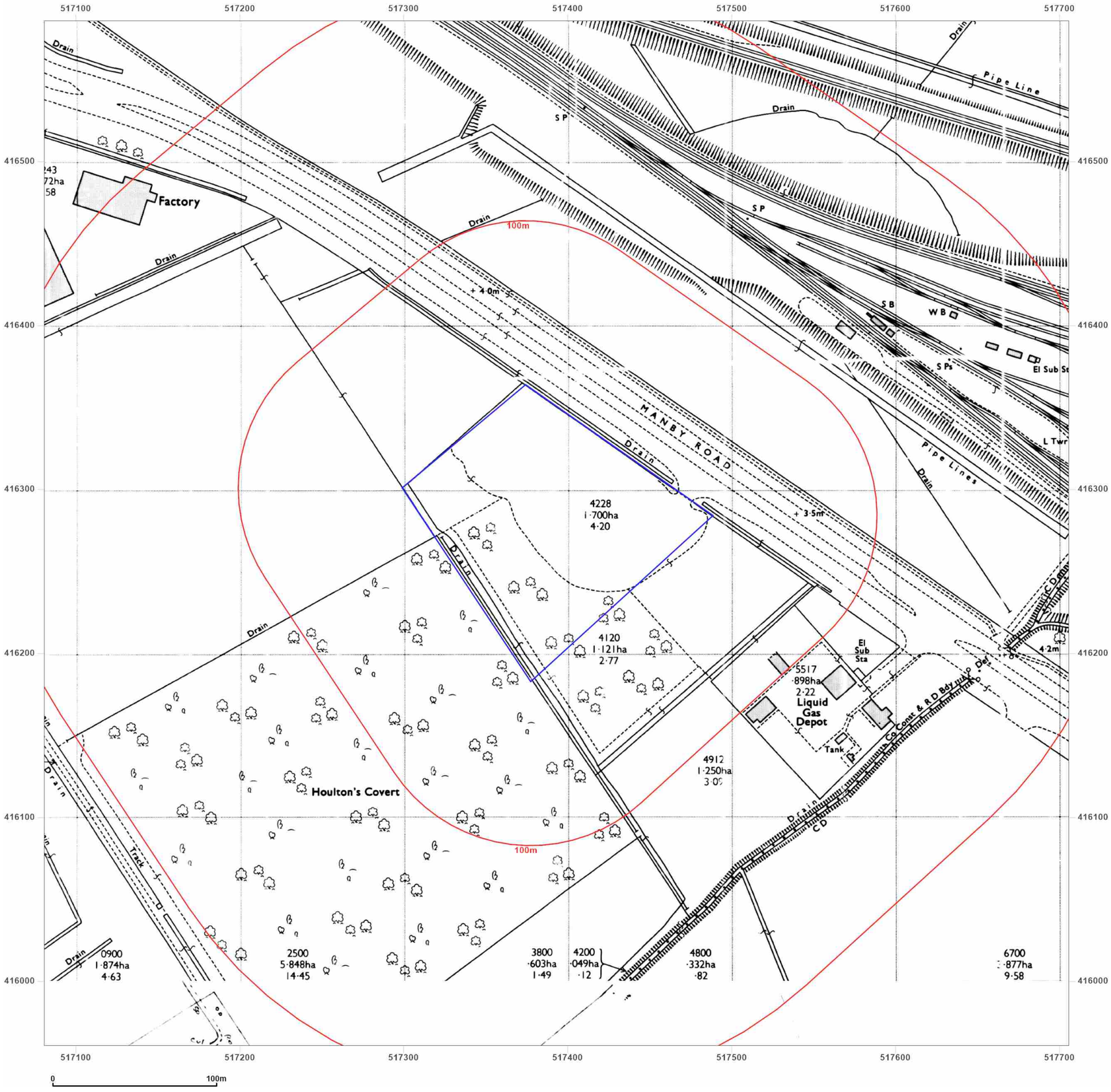
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Site Details:

SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

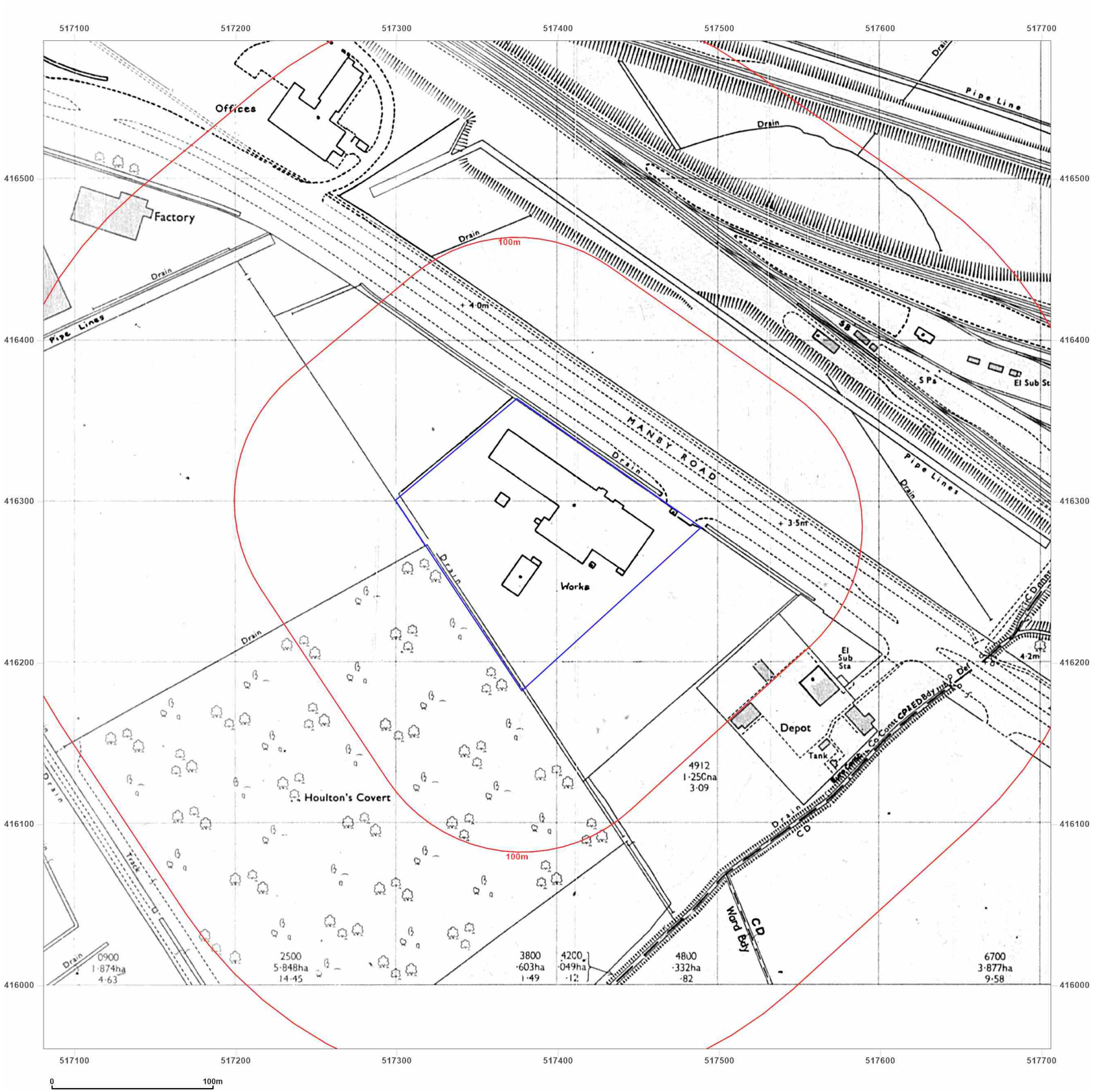
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1982**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1969
Revised 1982
Edition N/A
Copyright 1982
Levelled 1969

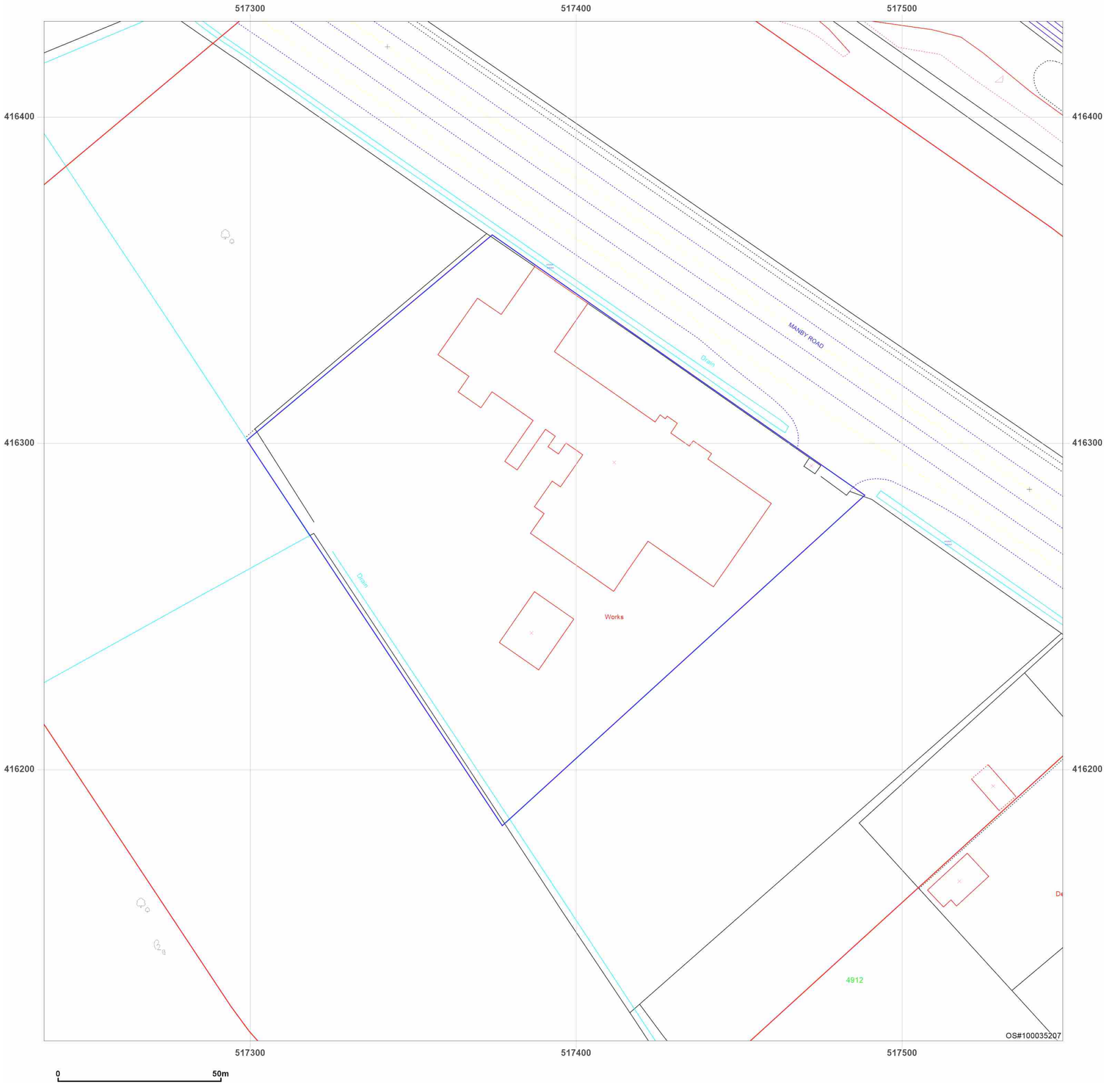
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

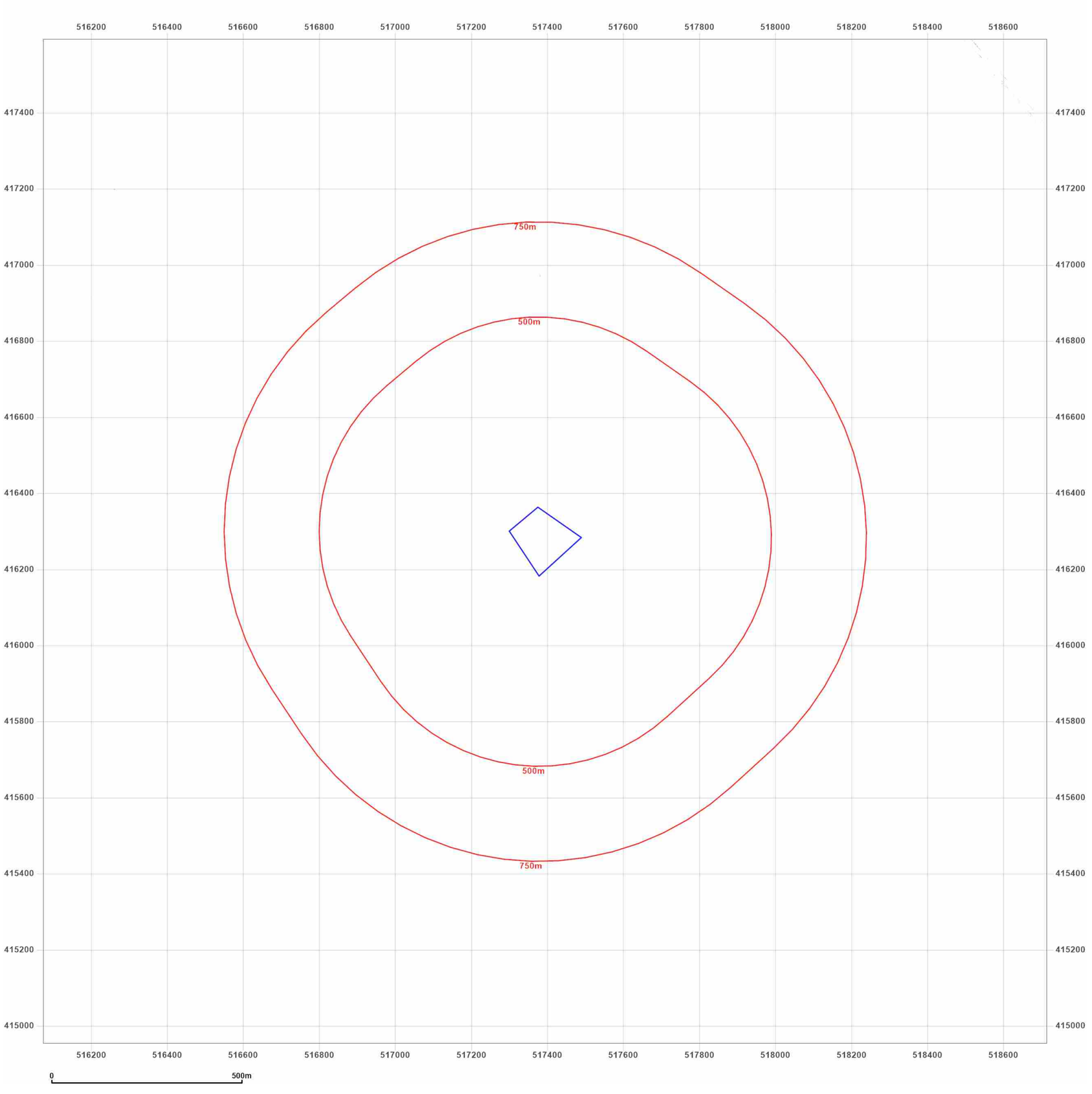
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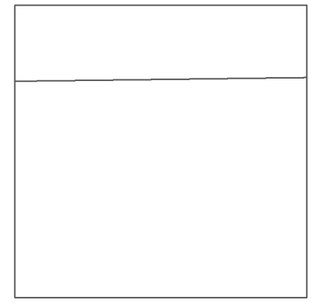
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1854**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



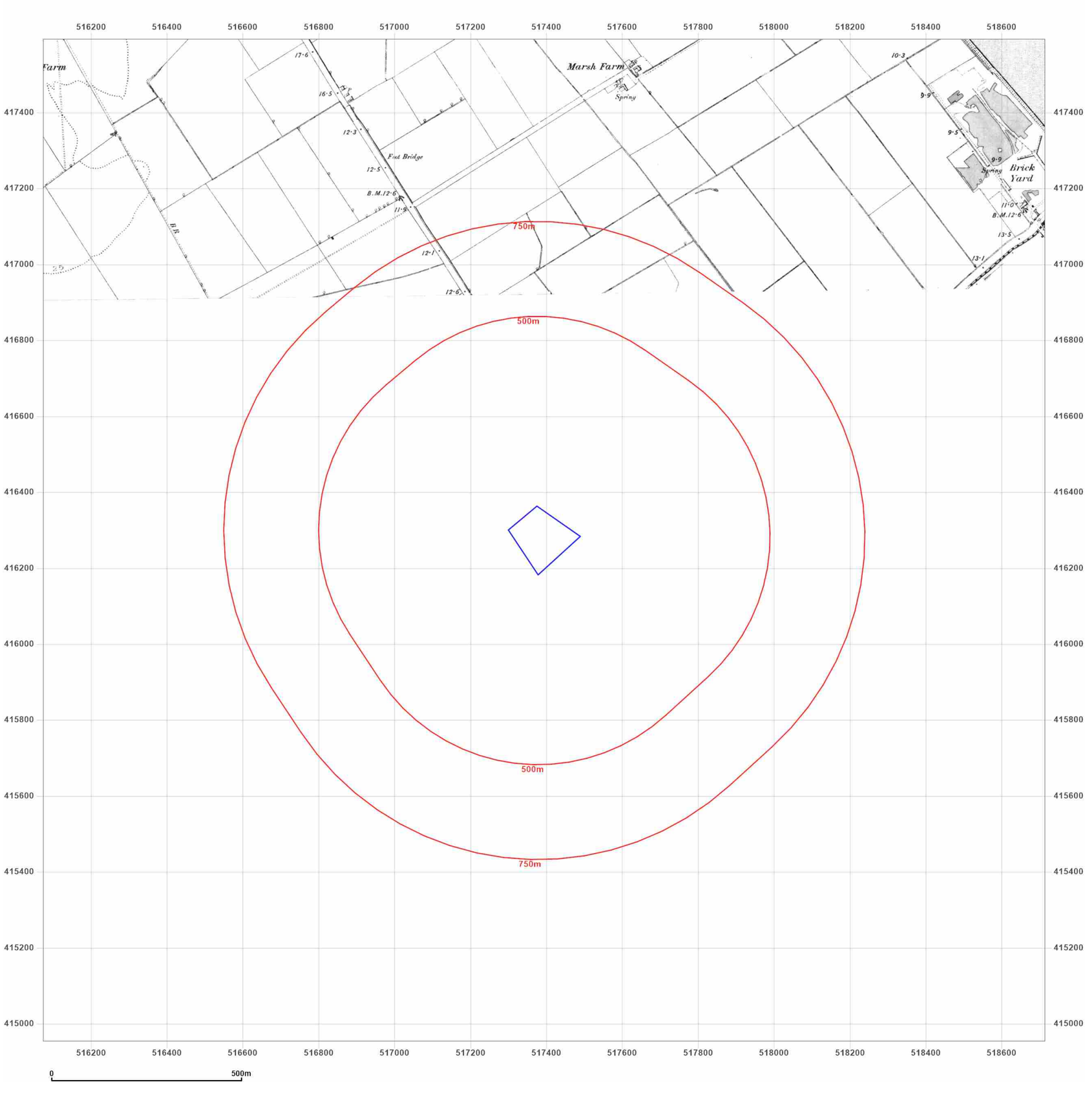
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

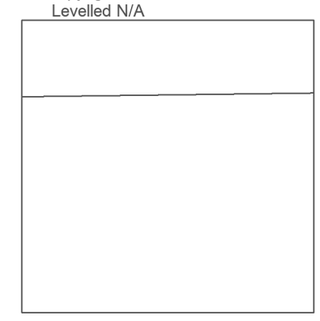
Map date: **1886**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



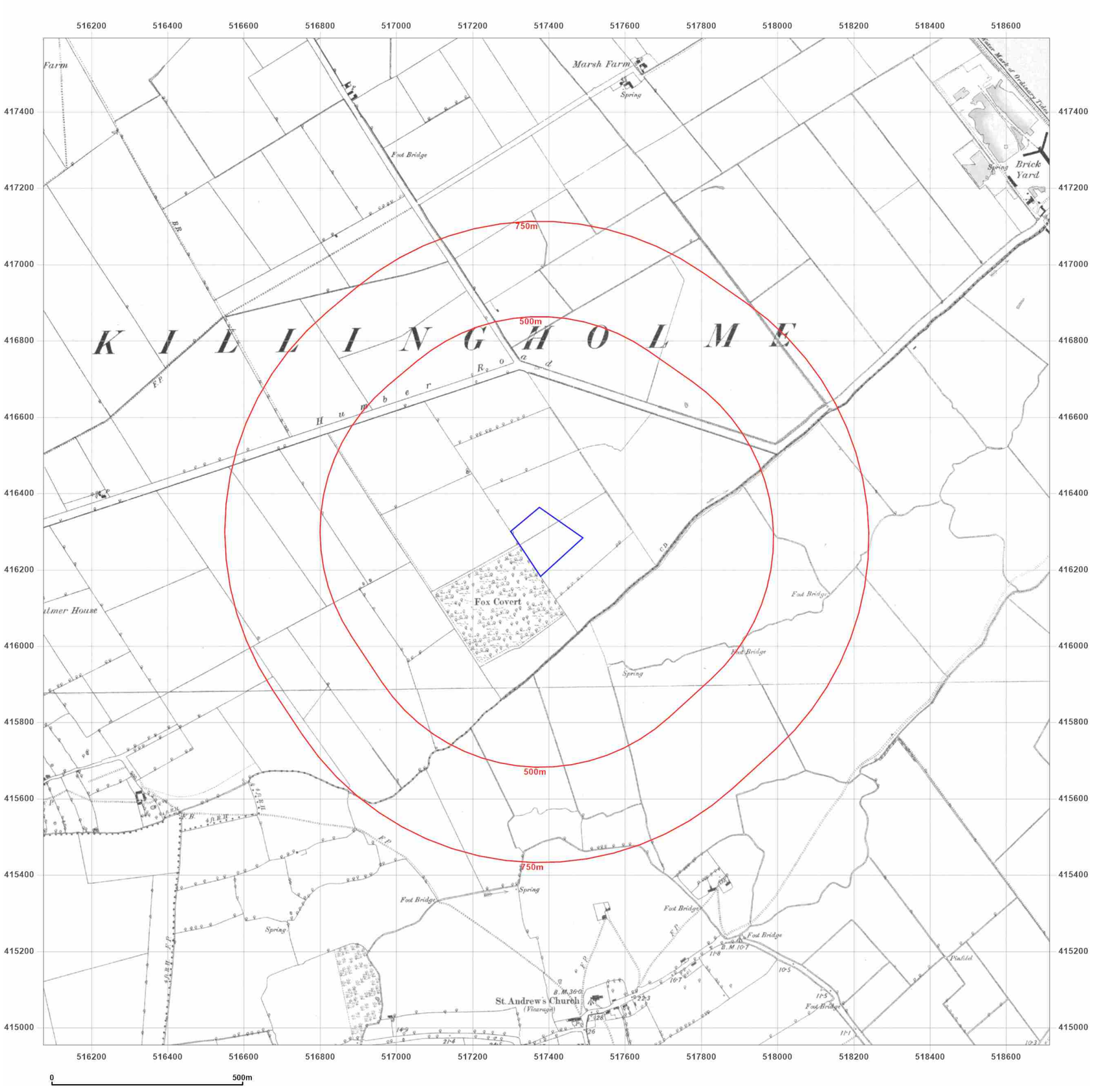
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1886**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

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Client Ref: PO21
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Grid Ref: 517393, 416273

Map Name: County Series

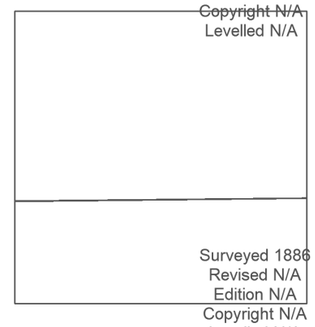
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Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1886
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

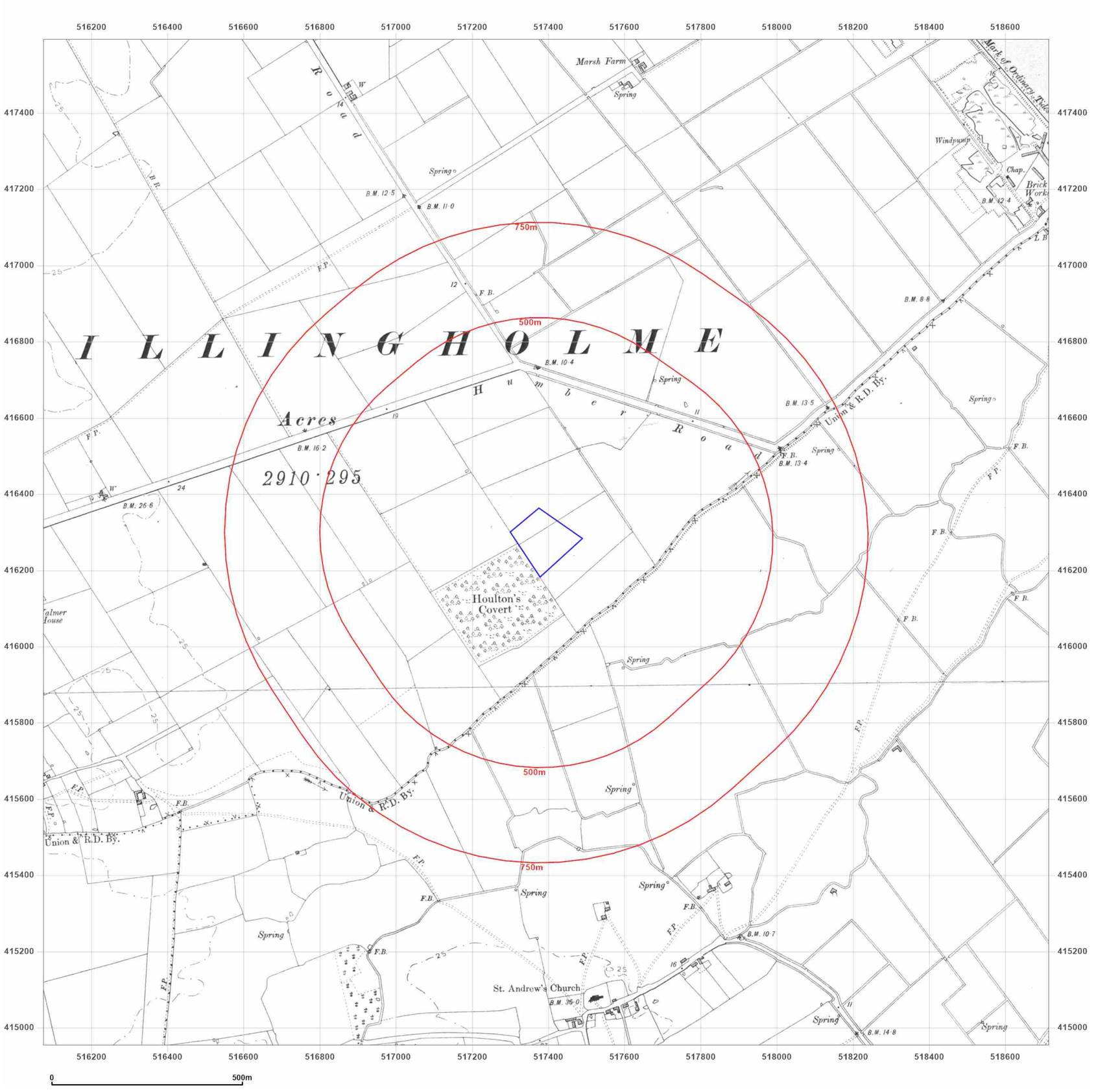
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1905-1906**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1886
Revised 1906
Edition N/A
~~Copyright N/A~~
Levelled N/A

Surveyed 1886
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

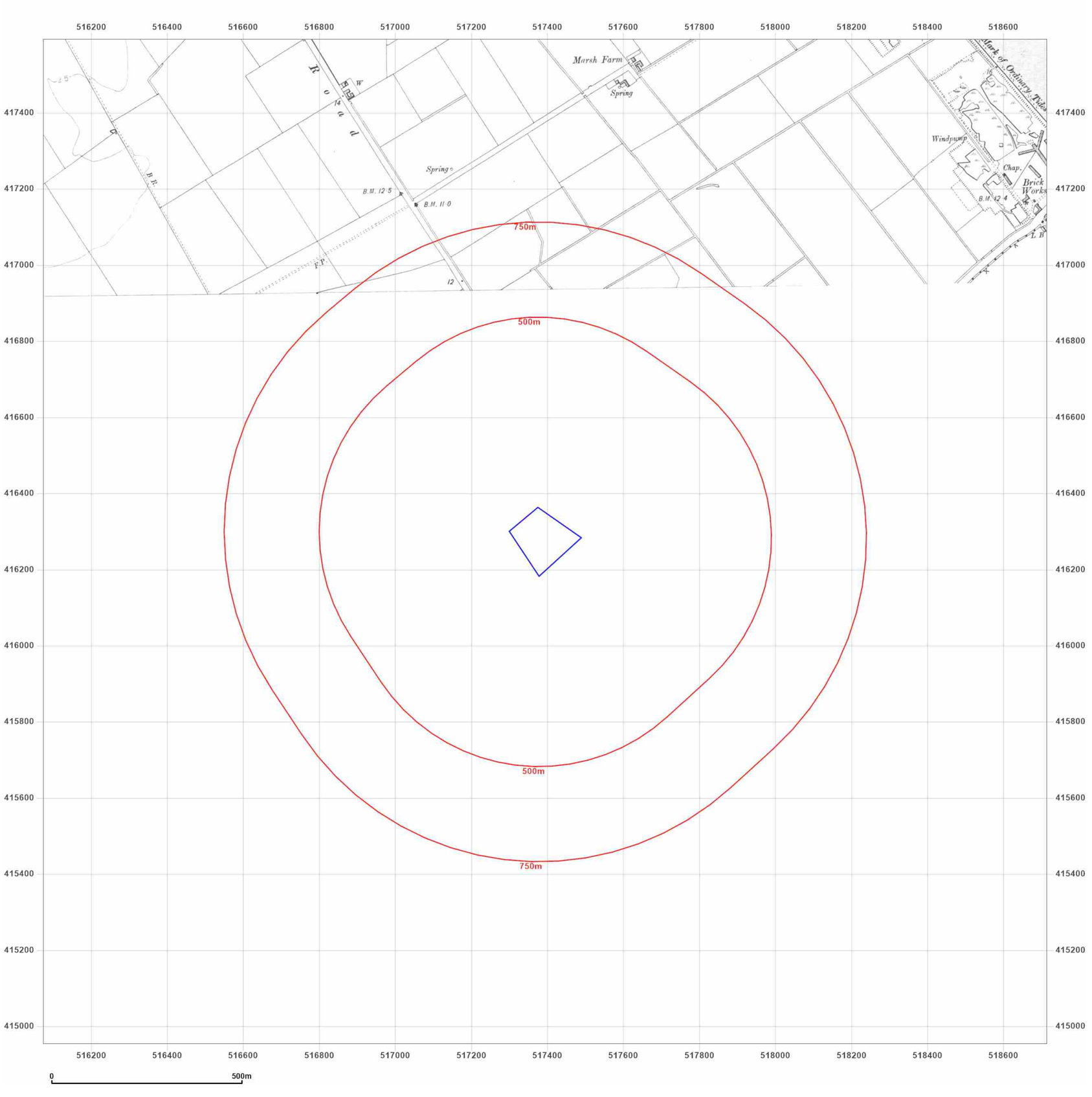
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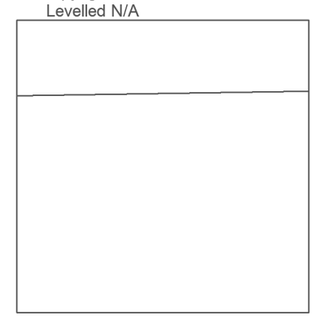
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Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1910**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1853
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A



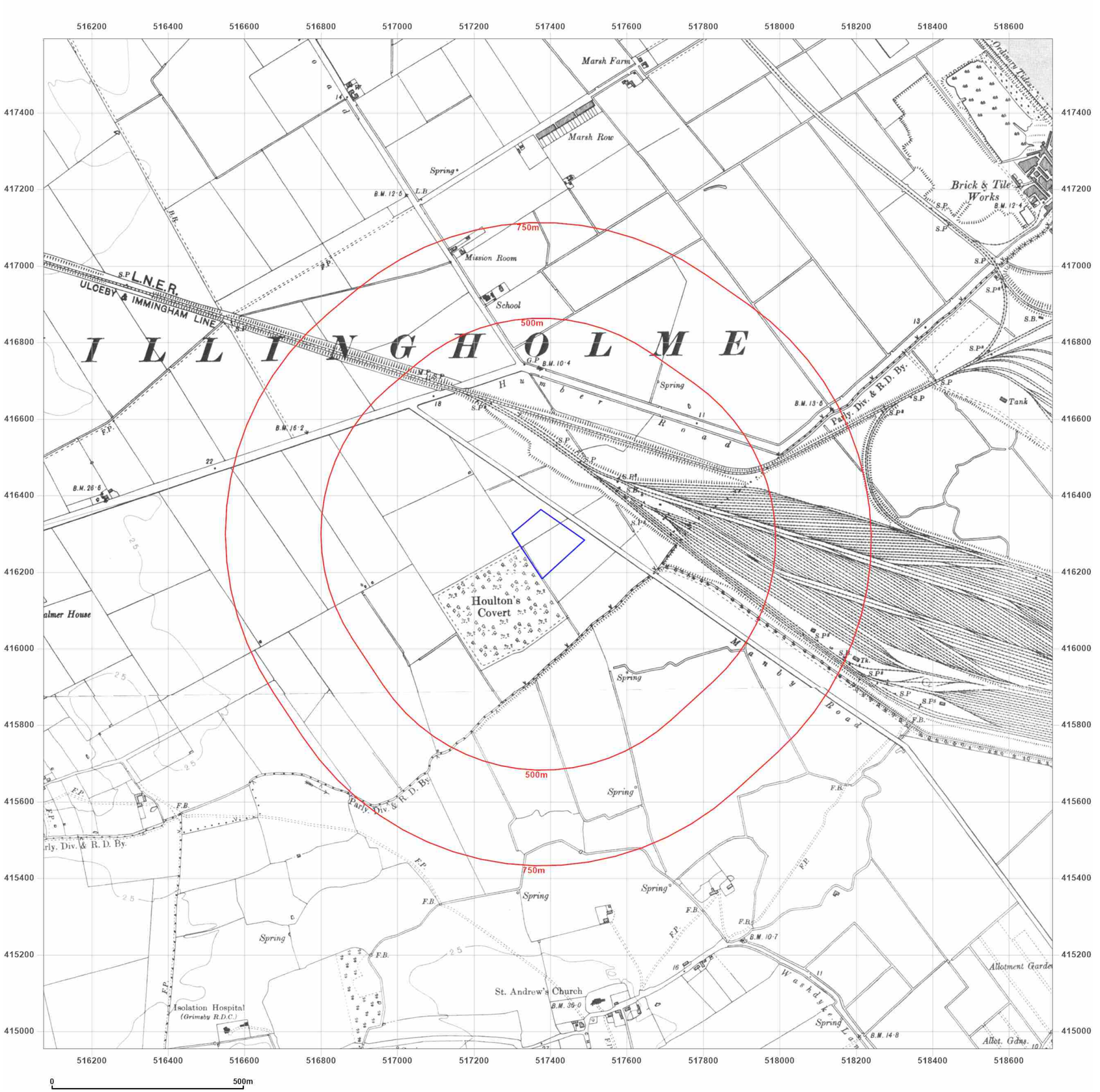
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1930**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

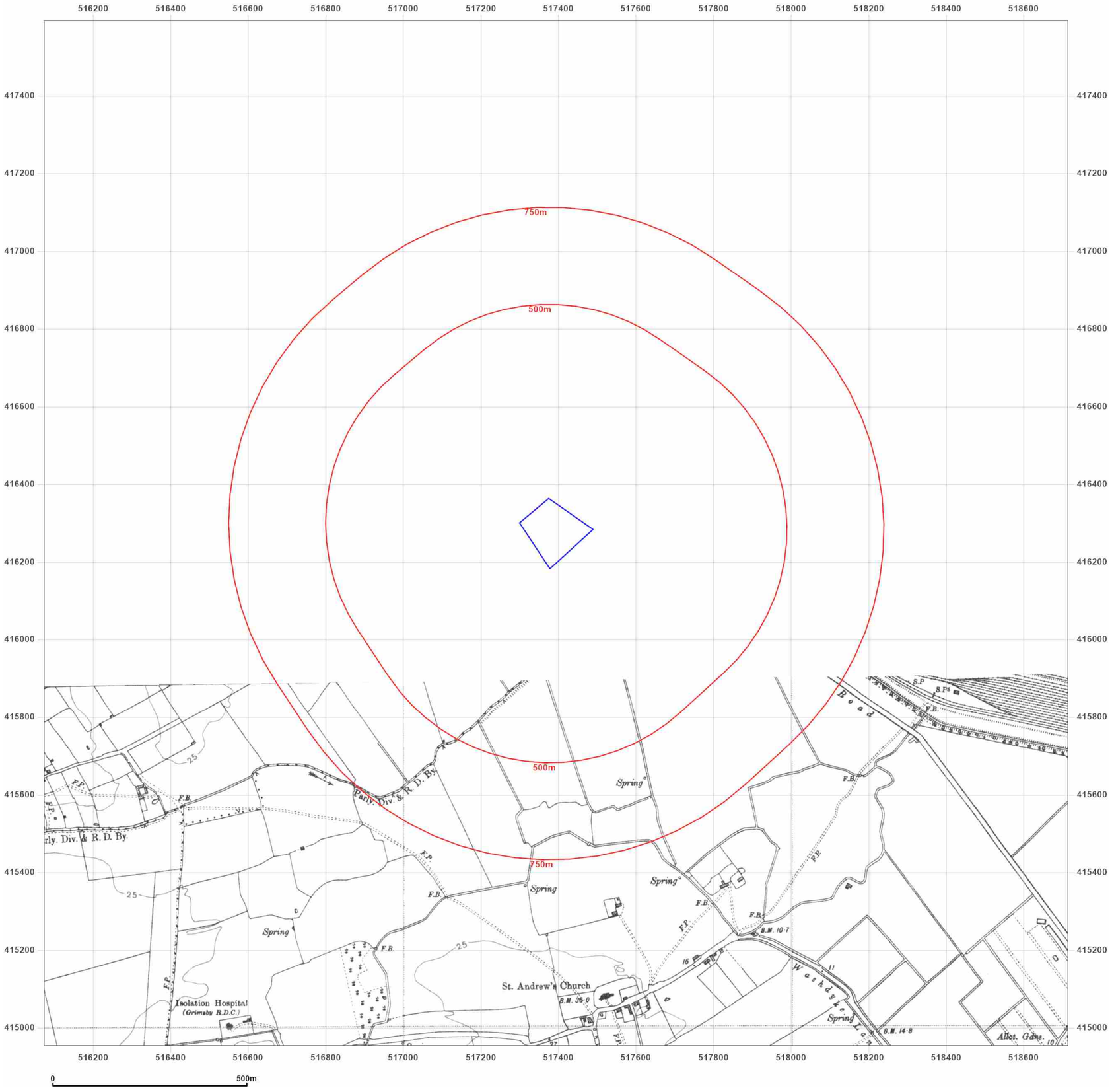
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1930**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

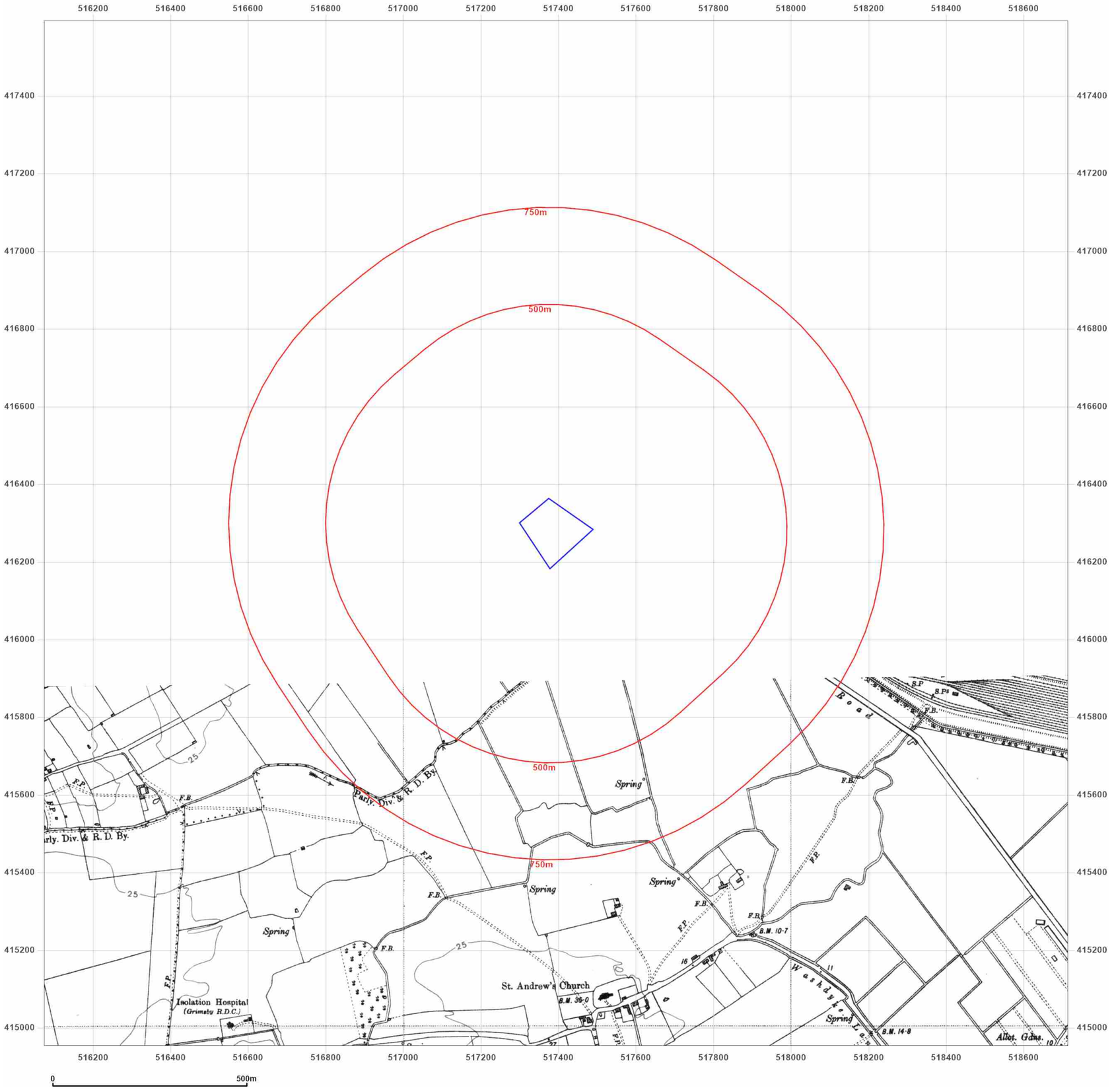
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

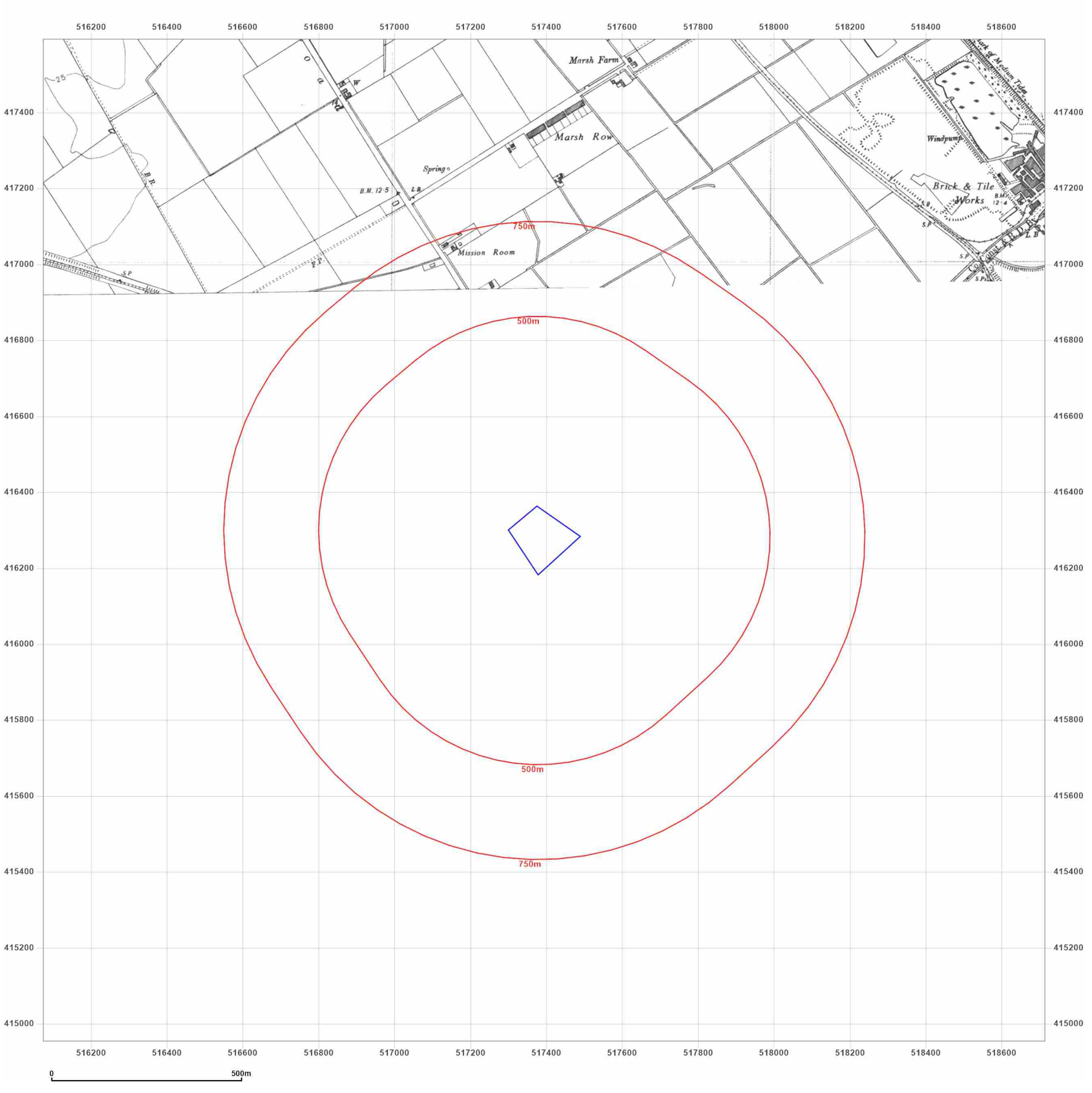
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Client Ref: PO21
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Grid Ref: 517393, 416273

Map Name: County Series

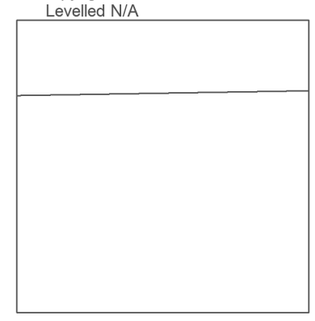
Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1853
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A



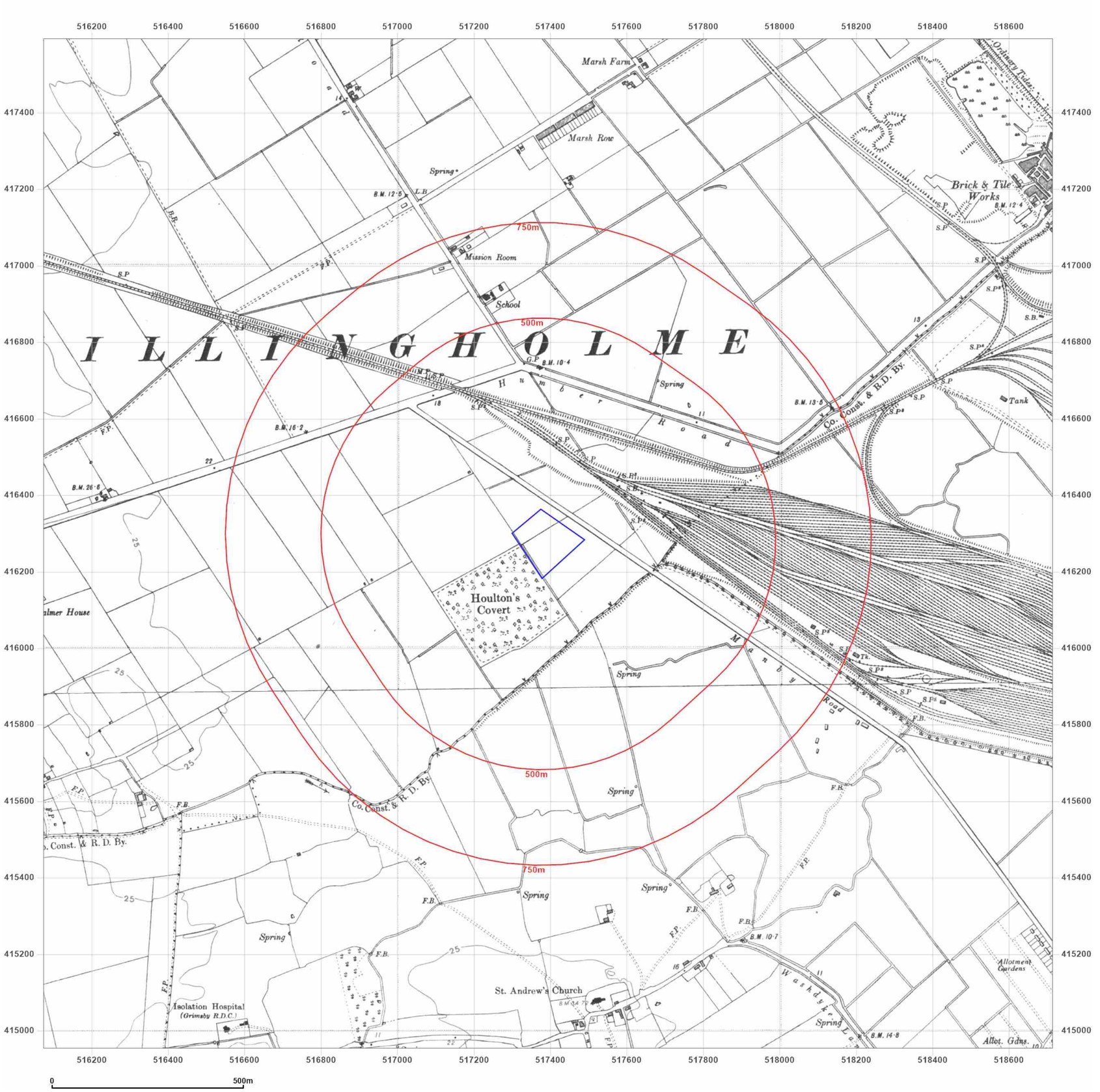
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: County Series

Map date: **1947-1951**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1886
Revised 1947
Edition 1947
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1947
Edition N/A
Copyright 1951
Levelled 1906

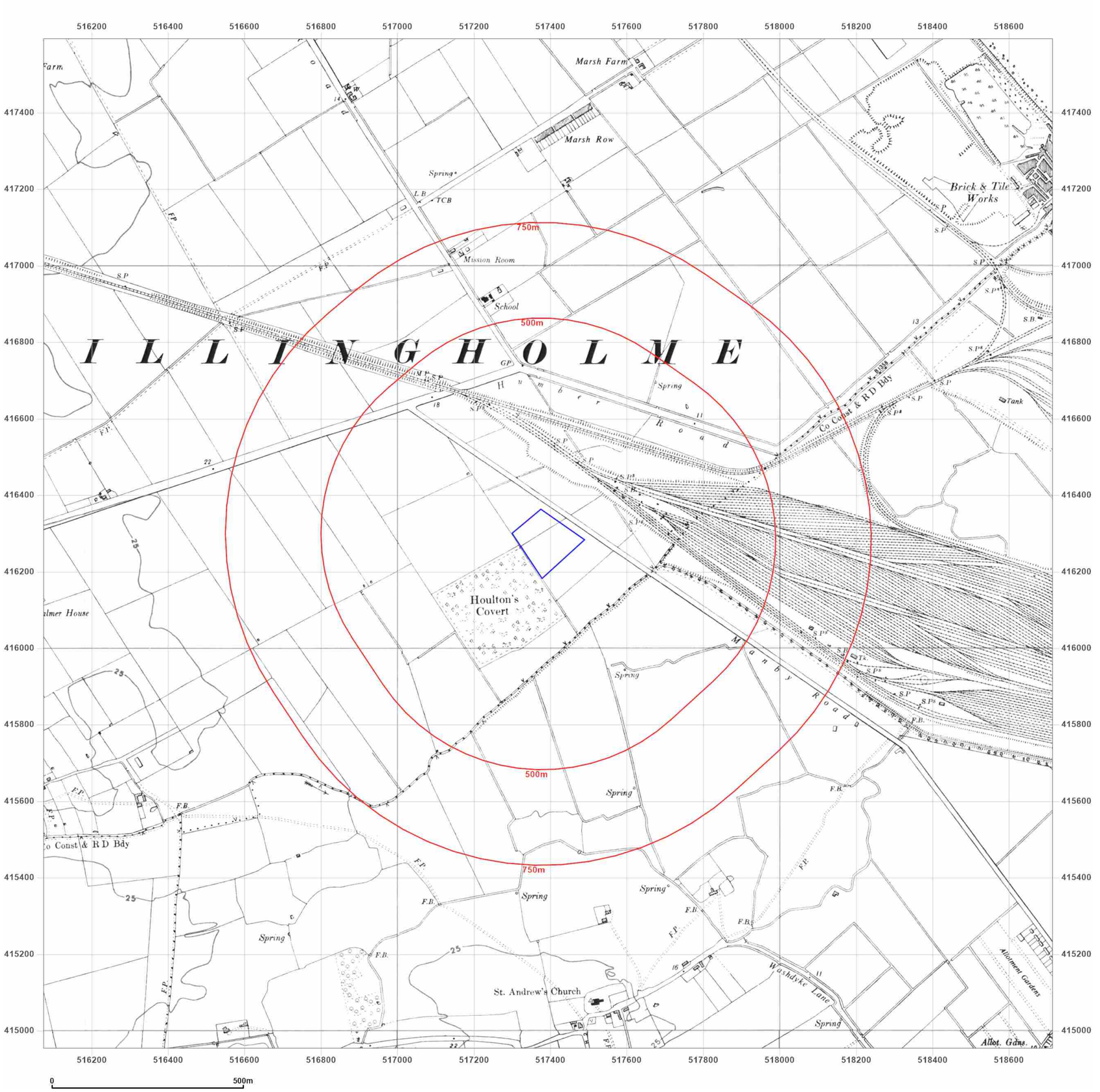
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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional
Map date: **1951**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

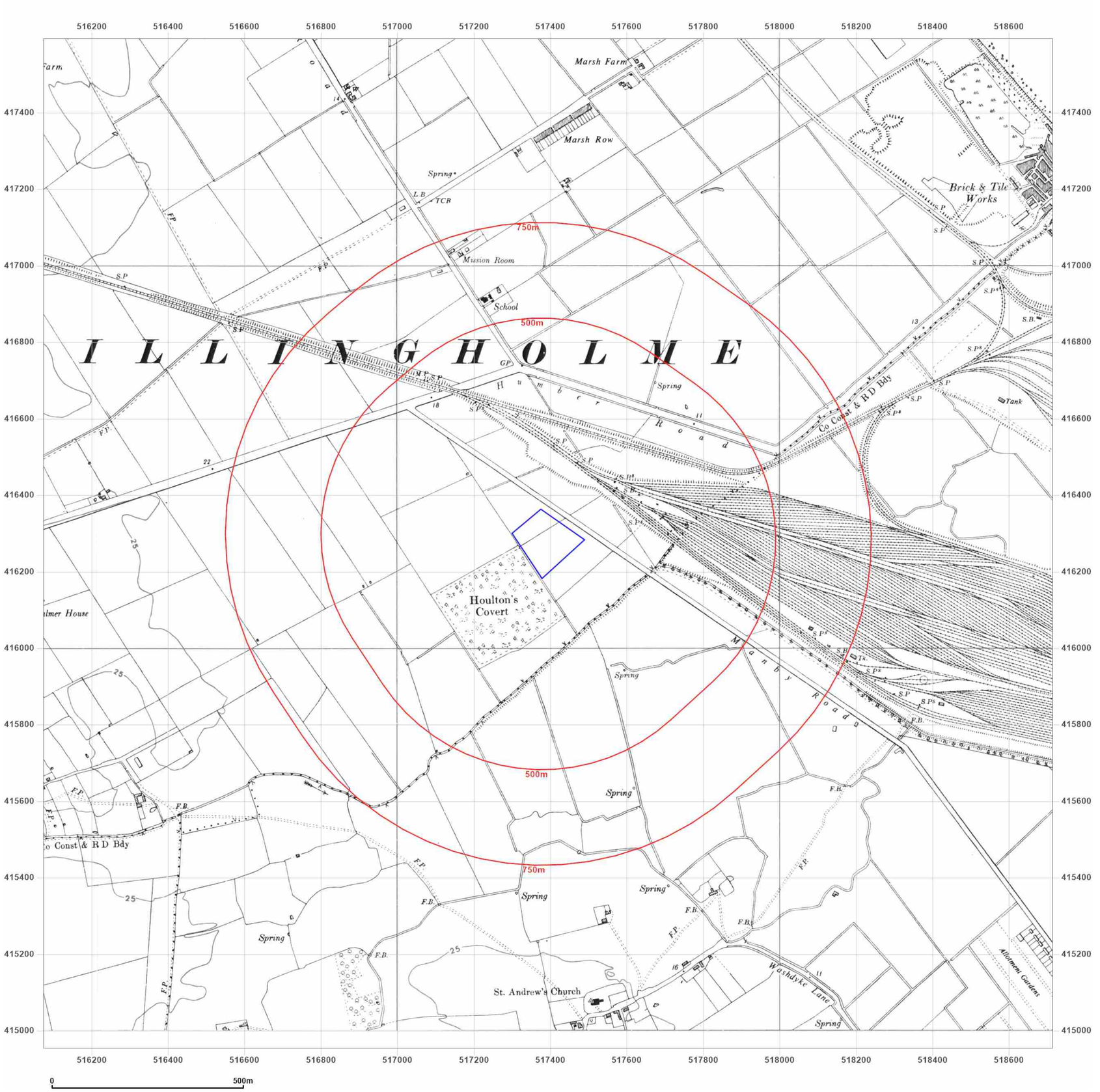
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional

Map date: **1951**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

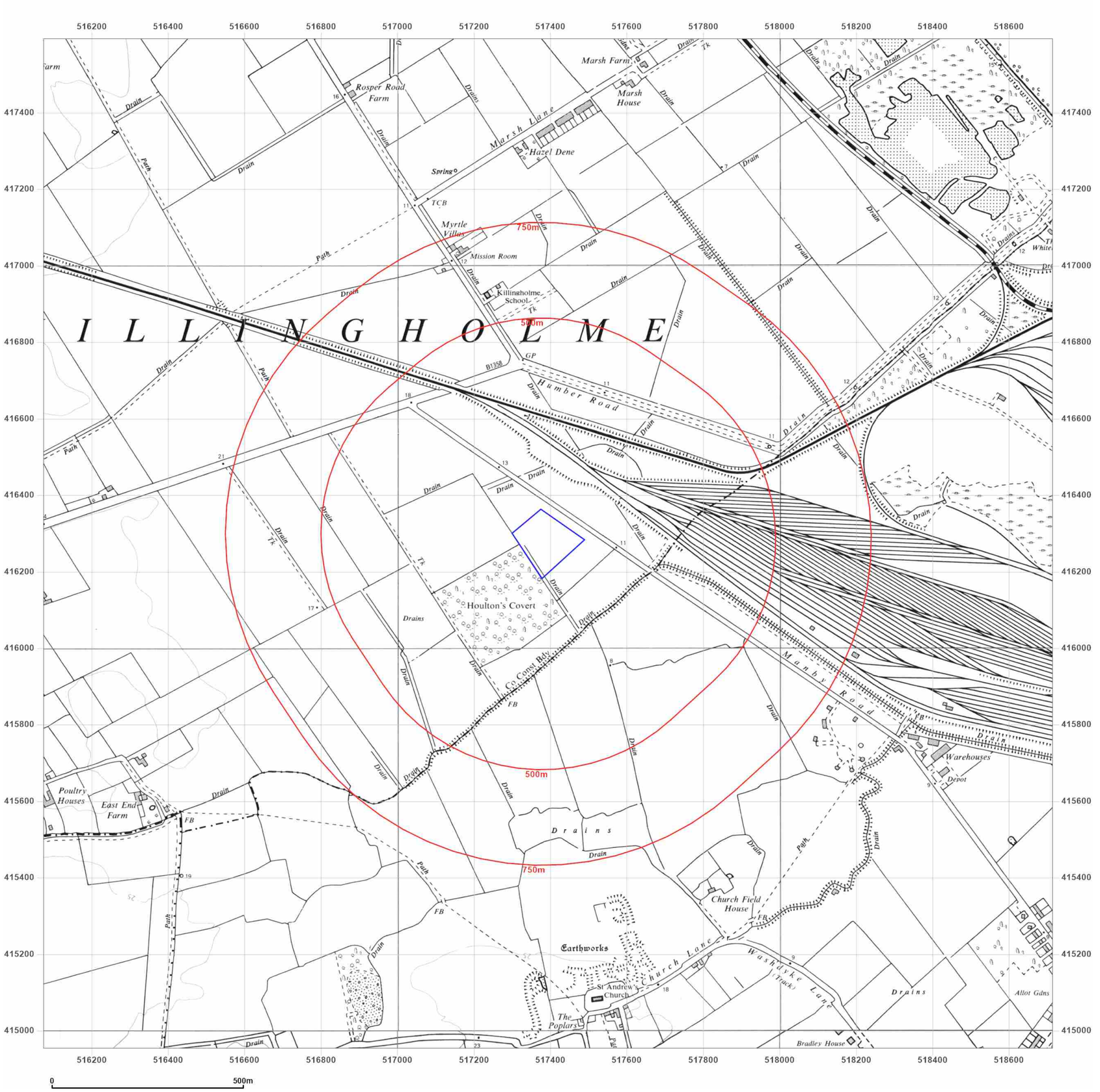
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: Provisional
Map date: **1968**
Scale: 1:10,560
Printed at: 1:10,560

N
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Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

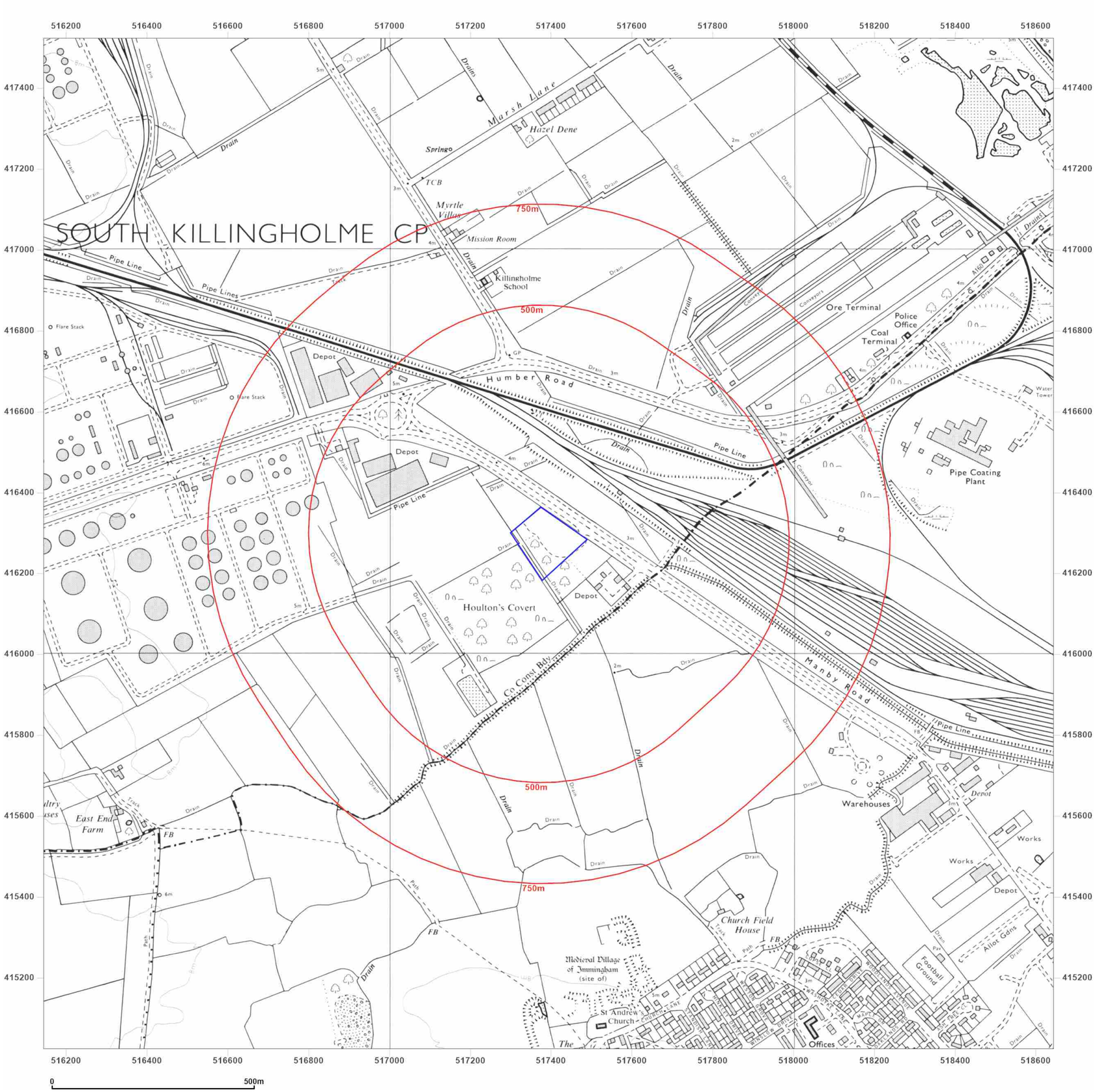
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Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **1974**
Scale: 1:10,000
Printed at: 1:10,000

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Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

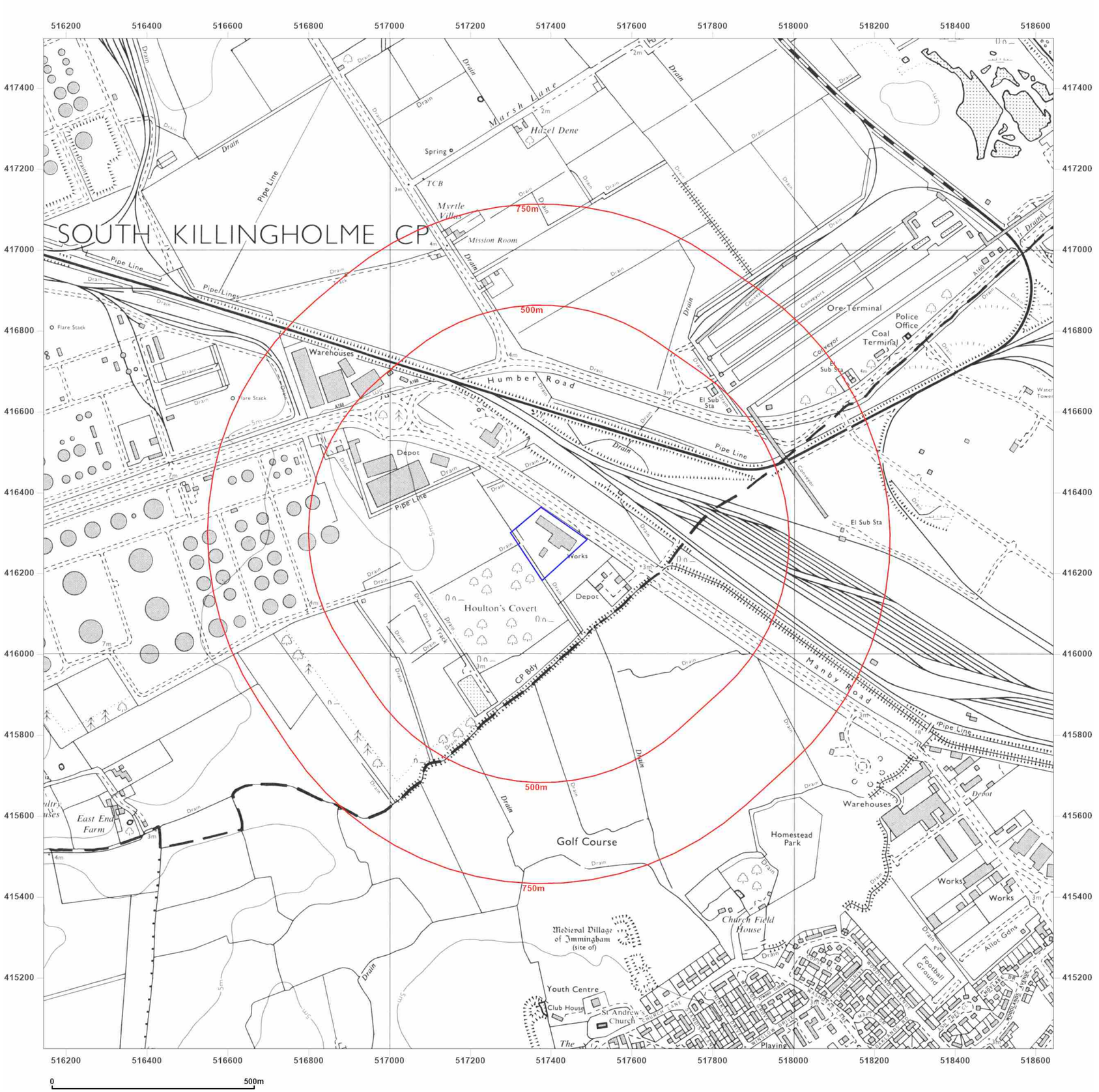
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **1983**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1975
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

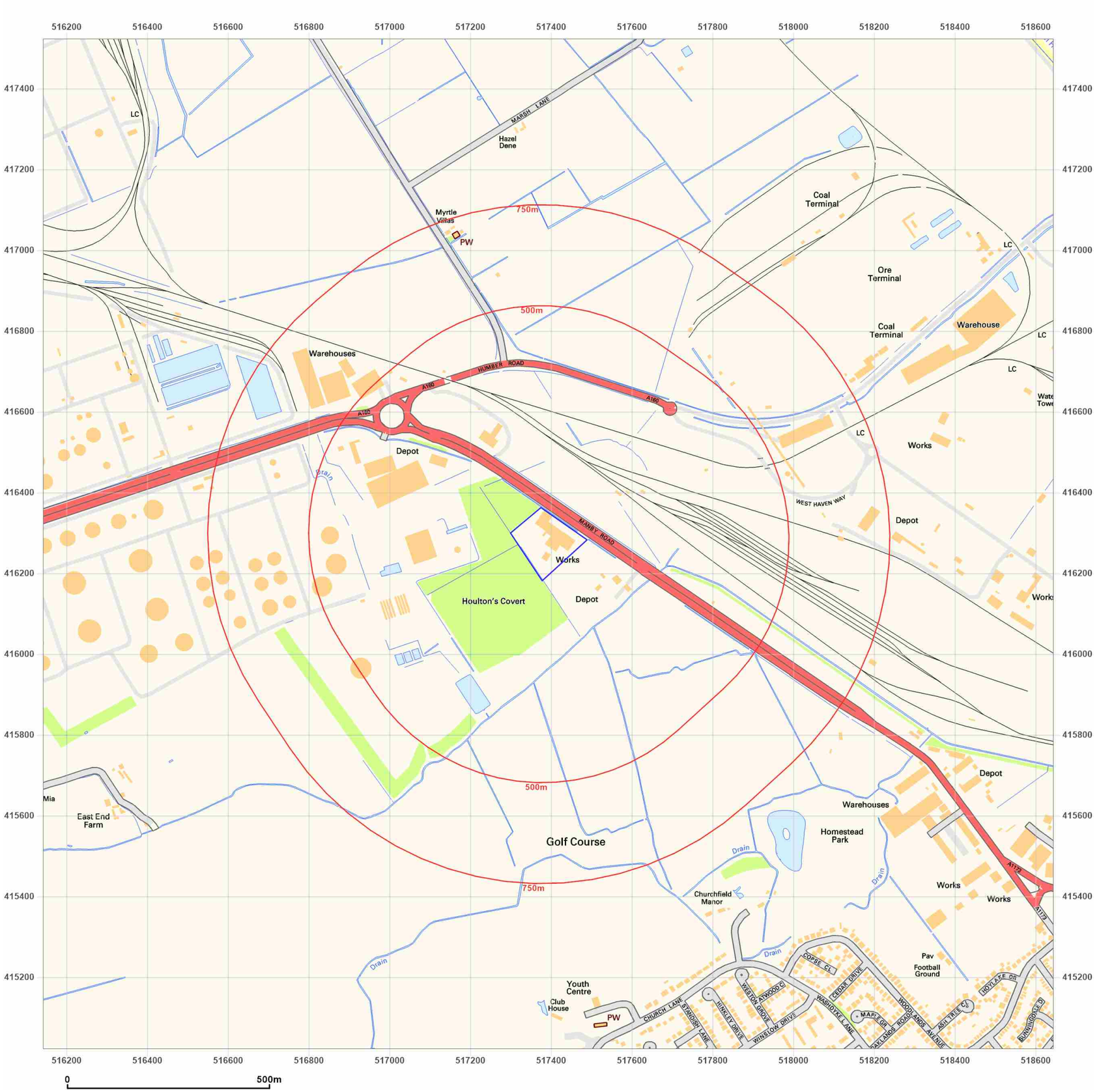
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Groundsure INSIGHTS

Site Details:

SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

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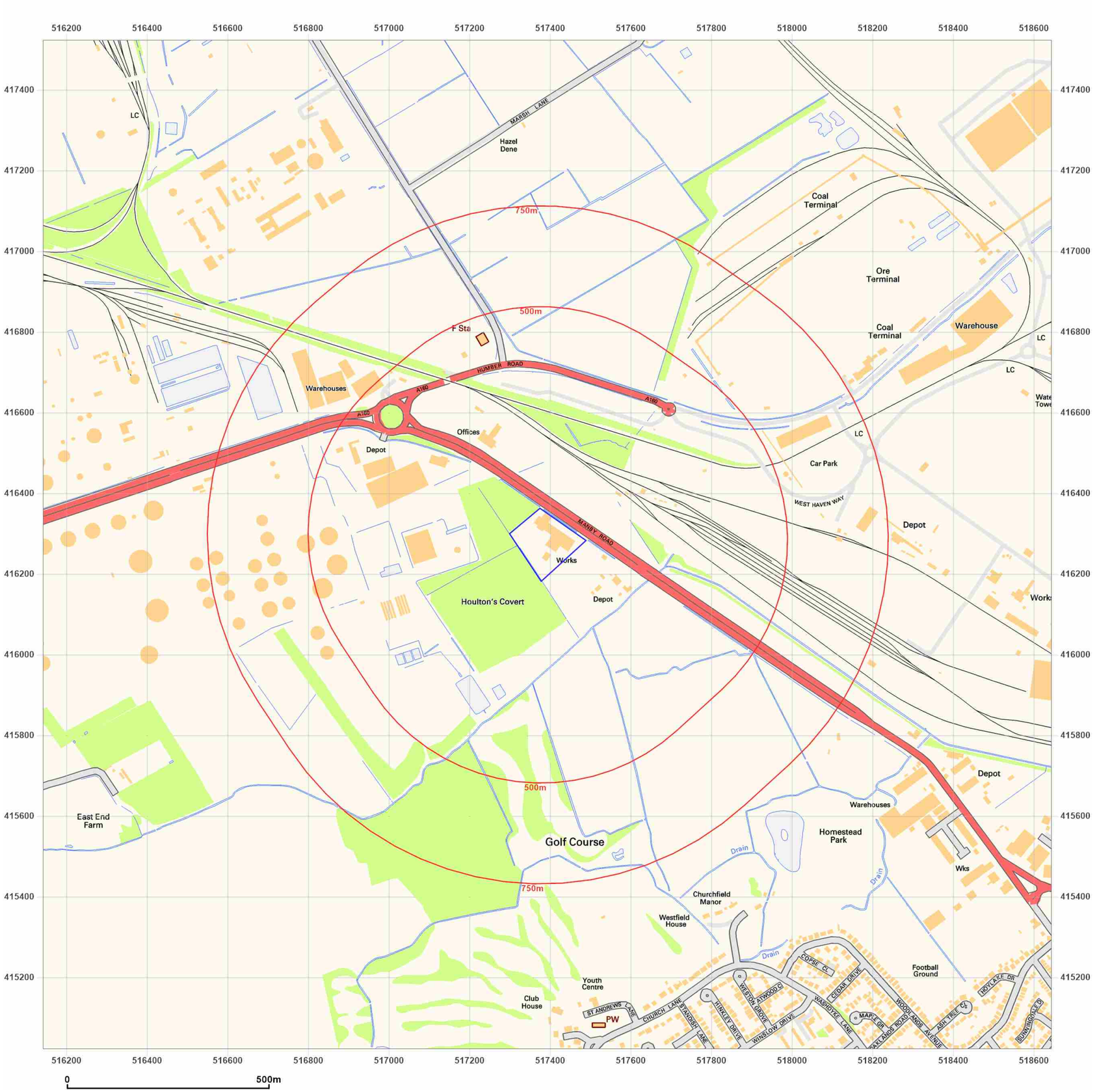
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Groundsure INSIGHTS

Site Details:

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Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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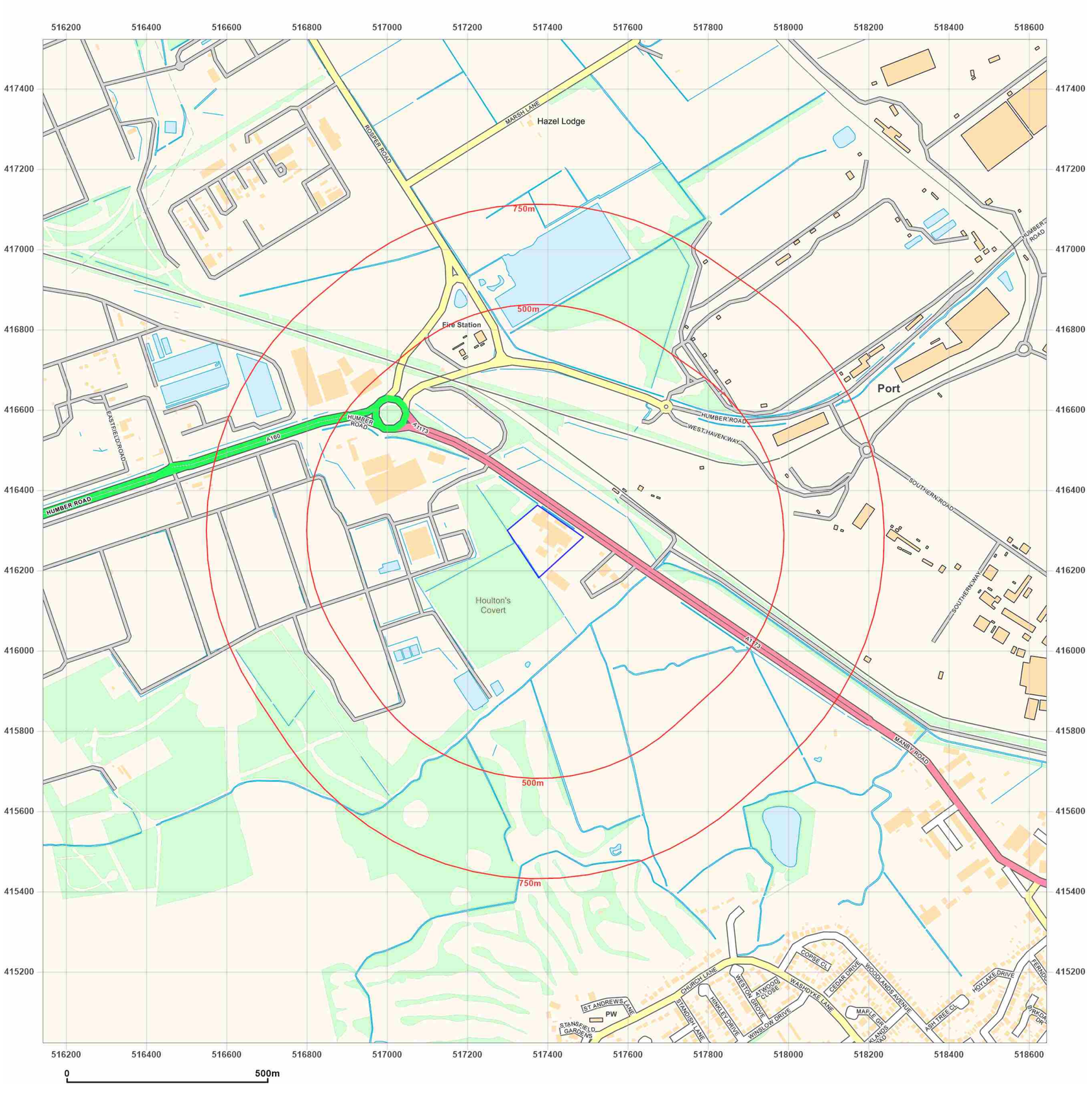
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Groundsure INSIGHTS

Site Details:

SAR METALS, UNIT 3, MANBY ROAD, SOUTH KILLINGHOLME, NORTH LINCOLNSHIRE, DN40 3DX

Client Ref: PO21
Report Ref: GS-JGY-O8N-B6G-EEF
Grid Ref: 517393, 416273

Map Name: National Grid

Map date: **2024**

Scale: 1:10,000

Printed at: 1:10,000

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