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# IMMINGHAM EASTERN RO-RO TERMINAL



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# Immingham Eastern Ro-Ro Terminal

## Phase 1 Geo-Environmental and Geotechnical Desk Study

Associated British Ports

Project number: 60664611

November 2022

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## Quality information

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The methodology adopted and the sources of information used by AECOM in providing its services are outlined in this Report. The work described in this Report was undertaken between **September 2021** and **November 2022** and is based on the conditions encountered and the information available during the said period of time. The scope of this Report and the services are accordingly factually limited by these circumstances. AECOM disclaim any undertaking or obligation to advise any person of any change in any matter affecting the Report, which may come or be brought to AECOM's attention after the date of the Report.

The site reconnaissance consisted of a general external inspection of the site aimed at identifying any obvious signs of geotechnical hazards and potential sources of ground contamination affecting the site. An environmental compliance audit and/or detailed structural inspection of existing buildings were outside the project brief. Similarly, the site visit excluded detailed consideration of the ecological or archaeological aspects of the site, and if such are believed to be of potential significance then it is recommended that specialist advice is sought.

Any risks identified in this Report are perceived risks, based on the information reviewed during the desk study and therefore partially based on conjecture from available information. The study is limited by the non-intrusive nature of the work and actual risks can only be assessed following a physical investigation of the site.

The opinions expressed in this report and the comments and recommendations given are based on a desk assessment of readily available information and an initial site reconnaissance by an AECOM Engineer. At this stage intrusive investigations have yet to be undertaken at site to establish actual ground and groundwater conditions and to provide data for an assessment of the geo-environmental status of the site.

Reference to historical Ordnance Survey (OS) maps and/or data provides invaluable information regarding the land use history of a site. However, it should be noted that historical evidence will be incomplete for the period pre-dating the first edition and between the release of successive maps and/or data.

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# 1. Executive summary

1.1.1 A Phase 1 Geo-environmental and Geotechnical Assessment has been undertaken by AECOM to support the Development Consent Order application for the proposed Immingham Eastern Ro-Ro Terminal (IERRT) within the Port of Immingham. A summary of each section of the report is provided below.

1.1.2 Section 2 details the IERRT project at the site, and the objectives, scope of works and information sources for the report.

1.1.3 Section 3 describes the site of the IERRT project and the surrounding land uses. It is noted that the site is located within the existing Port of Immingham, which comprises of operational areas, bulk commodity storage and Ro-Ro freight, amongst other port uses. Further small areas of the site are located on the A1173 Queens Road (at the junction with the port's East Gate) and Long Strip Woodland. An additional area of the site is located on the north bank of the Humber Estuary as part of the Outstrays to Skeffling Managed Realignment (MR) scheme. The Skeffling site is not considered further in the Phase 1 Desk Study as this development has been consented as part of a separate planning application (19/00786/STPLFE). The surrounding land use mostly comprises of the Humber Estuary, the wider Port of Immingham site, industrial land use (waste management companies, manufacturing plants, power plants, electric sub stations) and disused railway lines.

1.1.4 Section 4 comprises of the site reconnaissance observations from site visits undertaken on 21 October 2021 and 13 January 2022.

1.1.5 Section 5 describes the geological and environmental setting of the site. The geology comprises of Made Ground, Tidal Flat Deposits, Beach and Tidal Flat Deposits, Devensian Till, the Burnham Chalk Formation and the Flamborough Chalk Formation. There are no faults within the site. The site is not located within a Coal Mining Development High Risk Area, and there are no mineral extraction or non-coal mining records for the site. aquifers within superficial geology are designated as Unproductive Aquifer (Devensian Till), Secondary Undifferentiated Aquifer (Beach and Tidal Flat Deposits) and Principal Aquifers (Burnham Chalk Formation and Flamborough Chalk Formation). The site is partially located within the Humber Estuary, which is designated as a Site of Special Specific Interest (SSSI) of 'mixed' interest including geological interest, Special Area of Conservation (SAC), Special Protection Area (SPA), Ramsar site and a Nitrate Vulnerable Zone.

1.1.6 Section 6 details the historical land use and planned development for the site and surrounding area. The IERRT Project site has been part of the wider Port of Immingham since 1912. The site comprised of railway lines and associated infrastructure between 1884 and 1964. From 1964, the site comprised of pipelines. No significant changes were noted on the maps following this date. The surrounding area has been extensively developed, with historical sewage works, chemical works, depots, tanks, engine repair sheds and electric substations.

1.1.7 Section 7 comprises of a summary of previous ground investigations within the site and surrounding area undertaken by GD Pickles (2020), Exploration Associates (1980), Ground Explorations Ltd (1967) and The British Transport Docks Board (1965). A ground investigation was undertaken in May 2022. A confirmatory ground investigation is being undertaken. The findings of the confirmatory GI will be assessed and detailed in an interpretative report.

1.1.8 Section 8 comprises of the regulated activities and statutory consultation for the site and surrounding area. Within the site, there is an historical tank, two historical landfills and two licenced waste sites. The surrounding area comprises of historical tanks, an active / recent landfill, licenced waste sites, historical energy features and historical garages. A summary of the utilities on site and the unexploded ordnance (UXO) risk is detailed in this section.

The UXO risk for the site is considered to be Medium according to the SafeLane Report. Zetica consider the UXO risk to be Low for the site.

1.1.9 Section 9 comprises of the Initial Conceptual Model (iCSM) for the site which identifies the potential sources, pathways, and receptors. Potential sources of contamination are related to the on-site, off-site, historical, and current land uses. There are potential linkages to the following receptors: on-site and off-site human health; controlled waters (Humber Estuary, on site drains, Secondary Undifferentiated Aquifer in the superficial deposits and Principal Aquifer in the bedrock); development infrastructure; and flora and fauna.

1.1.10 Section 10 details the preliminary risk assessment for the potential contaminant linkages identified in Section 8. The potential risks range between *Very Low* to *Moderate* which is considered to be *Minimal / Negligible* to *Tolerable* using the LC:RM risk ratings. The risk to the receptors is discussed in detail within this section.

1.1.11 Section 11 comprises of the Preliminary Geotechnical Appraisal. Key hazards identified include unidentified services, UXO, slope instability, unforeseen ground conditions, groundwater flooding and hard rock / boulders / buried structures. The potential risks are considered to range between *Low* risk to *High* risk, with the majority being *Low* risk following appropriate mitigation measures. The suitability of foundations, ground floor slabs, excavations and soakaways are discussed within the preliminary engineering assessment.

1.1.12 Section 12 comprises of the conclusions of the desk study.

1.1.13 Section 13 comprises of the recommendations for ground investigation works within the site and mitigation measures to address the Medium UXO risk to the site.

# 2. Introduction

## 2.1 Background

2.1.1 AECOM Ltd (hereafter referred to as “AECOM”) was commissioned by Associated British Ports (hereafter referred to as “ABP”) to undertake a Phase 1 geo-environmental and geotechnical assessment to support the Development Consent Order (DCO) application for the proposed development of a new roll-on/roll-off (Ro-Ro) facility within the Port of Immingham. The IERRT project, which will be taken forward as a Nationally Significant Infrastructure Project (NSIP) will be known as the Immingham Eastern Ro-Ro Terminal (IERRT).

## 2.2 Objectives

2.2.1 This Phase 1 report aims to identify potential contamination issues from current and historic land use, which may be related to on and off-site sources. This report also provides a preliminary assessment of the geotechnical factors which have the potential to affect the IERRT development. The report has been prepared to support submission of the DCO application addressing constraints related to ground conditions and contamination with respect to the IERRT project.

## 2.3 Proposed development

2.3.1 The IERRT project, hereafter referred to as the ‘IERRT project’ is designed to service the embarkation and disembarkation of Roll on – Roll off (Ro-Ro) cargo, possibly with a provision for a small element of passenger use during quieter periods.

2.3.2 The IERRT project will involve marine works within the Humber Estuary and landside works on the existing port estate. The marine side development will comprise the construction of a new three-berth Ro-Ro jetty. On the landside, within the statutory port estate, provision will be made for an area of Ro-Ro and Lo-Lo unit storage, heavy goods vehicle (HGV) parking together with a number of terminal buildings. There will also be an internal site bridge which will cross over existing port infrastructure, including an ABP controlled railway track, to connect various of the proposed new storage areas.

2.3.3 The following summarises the components of the IERRT project:

Marine Works

- An approach jetty from the shore;
- A single linkspan bridge located on the approach jetty’s bankseat;
- Two floating pontoons secured in place with reinforced concrete restraint dolphins;
- Two open piled finger piers positioned perpendicular to each floating pontoon;
- Possible inclusion of vessel impact protection measures comprising an impact protection structure adjacent to the approach jetty to the south of the finder pier if required;
- A capital dredge of the new berth pocket; and
- Disposal of dredged material within the wider Humber Estuary.

Landside Works

- Demolition of four existing buildings within the development site as well as the extension of another building. Of the four demolished buildings, two are currently used by Malcolm West Forklifts, which will be replaced and re-constructed to the east of the current location. The facilities provided by two of these buildings and the extension, which are used by Drury’s Engineering Services, will be moved to another existing adjacent building;
- Site surface improvement works to provide suitable areas to accommodate wheeled cargo, containers, HGVs, and storage;

- Secure fencing around the terminal areas and adequate lighting provision;
- Four storage areas, comprising of the following:
    - North storage area with approximately 238 trailer bays and 38 container ground slots;
    - Central storage area with approximately 157 trailer bays, 71 staff car parking spaces and 13 equipment parking spaces;
    - South storage area with approximately 409 trailer bays, 78 pre-gate parking spaces, 80 staff parking spaces, 40 passenger parking spaces, 14 large passenger parking spaces, 18 tug master parking spaces and marshalling / holding lanes for accompanied freight and passenger vehicles; and
    - West storage area with approximately 630 trailer bays.
- A number of buildings will be constructed to provide appropriate facilities for lorry drivers and passengers, comprising of the following:
    - In the south storage area, a two-storey terminal building will be constructed, along with several ancillary buildings including in and out gates, a welfare building for HGV drivers and passengers awaiting embarkation and inspecting and administrative buildings for the UK Border Force.
    - In and out gates are proposed for the west storage area.
    - A small workshop and fuel station in the central storage area; and
    - Two buildings for Malcom West Forklifts in the north storage area.
- Construction of a substation and frequency converter housing in the north storage area;
- A new level crossing across the ABP controlled railway to join the southern and central storage areas;
- Junction improvements for the junction of Robinson Road and East Dock Road, and East Dock Road and East Riverside Road. Robinson Road and Gresley Way will be connected via a new junction;
- Highway improvements to Gresley Way;
- Improvement and alteration to the approach to the entrance and exit of Shed 26;
- Provision of other vehicle circulatory and access routes within the IERRT Terminal;
- Improvements to the East Gate port entrance, including widening of the existing entrance road, demolition of the existing gate house, construction of a new security gate house to allow an extra inbound lane and widening of the junction between Queens Road and Laporte Road. New wig-wag signals will be installed to control traffic in the event of emergency access being required. The existing layby on the adjacent public highway will be removed and the bus stop will be repositioned. A pedestrian path will be provided between the East Gate and the bus stop;
- A two-span internal bridge will need to be constructed within the port estate to cross over an adjacent access road (Robinson Road) and ABP controlled railway line to connect the north and central storage areas; and
- Appropriate drainage and service infrastructure throughout the new terminal area.

<u>Environmental Enhancements</u>

- Environmental enhancements are proposed for the woodland to the south of Laporte Road named Long Strip to encourage the development of woodland ground flora, crate ecological niches and increase nesting and roosting opportunities for birds and bats; and
- Intertidal enhancements as part of the Outstrays to Skeffling Managed Realignment Scheme. The development at Skeffling is not considered within the Phase 1 Desk Study as the intertidal enhancement scheme is not within the red line boundary for the IERRT Project and has been consented as part of a separate planning application (19/00786/STPLFE).

2.3.4 Further information on the IERRT project is provided in Chapter 2 of the Environmental Statement (Application Document Reference number 8.2).

## 2.4 Scope of work

2.4.1 The scope of work for this report comprised the following:

- A review of the environmental setting of the site using publicly available resources such as Natural England's 'MAGIC' and the British Geological Survey 'GeoIndex', including geology, hydrogeology, hydrology, and statutory sensitive sites;
- Procurement of a Groundsure® Report to provide information on Regulatory Databases such as landfills and waste sites, neighbouring operational industrial facilities which are permitted, pollution incidents, etc;
- A review of historical Ordnance Survey maps, provided with the Groundsure® Report, aimed at identifying the historic development of the site and potential environmental constraints/hazards;
- A site walkover of the accessible areas at the site to identify any potential hazards and inform the development of an iCSM;
- Development of an iCSM for the current site, including identification of potential contamination sources, receptors, pathways, and contaminant linkages; and
- Preparation of this report.

## 2.5 Information sources

2.5.1 The physical setting and environmental characteristics of the site have been assessed based on information gathered from the following sources:

- Groundsure® Report (GS-8247704) (Groundsure, 2021) (Presented as Annex B);
- British Geological Survey (BGS) Solid and Drift for Partington (Sheet 81 (and including parts of Sheet 82 and 90)) 1:50,000 (BGS, 1991);
- BGS, 2022, BGS GeoIndex Onshore Map Application. Available at: http://mapapps2.bgs.ac.uk/geoindex/home.html [Online, accessed July 2022] (BGS, 2022);
- BGS, 1994, Geology of the country around Grimsby and Patrington: memoir for 1:50000 geological sheets 90 and 91 and 81 and 82 (England & Wales) (BGS, 1994);
- The Coal Authority, 2022, The Coal Authority Online Interactive Map;(https://mapapps2.bgs.ac.uk/coalauthority/home.html) (The Coal Authority, 2022);
- BGS. The Chalk Aquifer System of Lincolnshire. Research Report RR/06/03 (Whitehead and Lawrence, 2006);
- MAGIC Map Application, DEFRA (https://magic.defra.gov.uk/magicmap.aspx) (DEFRA. 2022);
- Environment Agency Website (www.environment-agency.gov.uk) (Environment Agency, 2022a);
- Environment Agency Catchment Data Explorer (https://environment.data.gov.uk/catchment-planning/) (Environment Agency, 2022b);
- North East Lincolnshire Council Planning Application Portal (Planning portal - NELC | NELC (nelincs.gov.uk)) (North East Lincolnshire Council, 2022);
- Landmark Information Utilities Report (Ref: 285109404_1) (Landmark Information, 2021);
- Zetica UXO Risk Map Online (https://zeticauxo.com/downloads-and-resources/risk-maps/) (Zetica UXO, 2022a)
- SafeLane Global Detailed Unexploded Ordnance Risk Assessment (Ref: 9048 RA) (Presented in Annex D) (SafeLane Global Limited, 2021); and

- Zetica UXO Port of Immingham UXO Desk Study and Risk Assessment (P11479-22-R1) (Zetica UXO, 2022b).

# 3. Site and surrounding area

## 3.1 Site location

3.1.1 The location of the IERRT project (hereafter referred to as the 'site') is located at the Port of Immingham. The site is centred on the approximate National Grid Reference TA 20558 15316. A site location plan is presented as Drawing B2429400-JAC-00-ZZ-DR-ZZ-0101. The surface area of the site is approximately 58ha.

## 3.2 Site description

3.2.1 The Port of Immingham lies immediately adjacent to the main deep-water shipping channel which serves the Humber Estuary. The Port comprises a number of discrete operational areas, with bulk commodities such as liquid fuels, solid fuels, and ores, as well as Ro-Ro freight, being handled from in-river jetties. These include the Eastern and Western Jetties, the Immingham Oil Terminal (IOT), the Immingham Gas Terminal, Immingham Outer Harbour (IOH) and the Humber International Terminal (HIT). Additional areas of the site include part of the A1173 Queens Road at the junction with the East Gate and the land associated with Long Strip Woodland – an area of woodland - adjacent to a nearby sewage works (see Drawing B2429400-JAC-00-ZZ-DR-ZZ-0204) The residential area of Immingham lies approximately 500m to the southwest of the site.

3.2.2 An intertidal enhancement scheme, known as the Outstrays to Skeffling MR scheme is currently being undertaken by ABP in partnership with the Environment Agency on the north bank of the Humber Estuary. The development at Skeffling is not considered within the Phase 1 Desk Study as the intertidal enhancement scheme is not within the red line boundary for the IERRT Project and has been consented as part of a separate planning application (19/00786/STPLFE).

3.2.3 A site walkover was undertaken by an AECOM representative in October 2021 and January 2022. The site walkover photographs are presented in Annex A. Further discussion is presented in Section 6.

## 3.3 Surrounding land use

3.3.1 Table 3.1 summarises the key features and current land use of the area surrounding the site. As previously stated, this is based on a review of desk-based sources, including aerial photography, and has been verified by AECOM during a site visit.

**Table 3.1: Summary of current surrounding land use**

| Direction | Summary |
|---|---|
| North | The marine works are located with the Humber Estuary. To the northeast of the marine works lies a jetty with associated pipelines and mooring equipment. Beyond this the Humber Estuary continues for approximately 2.5km. |
| West | The majority of the Immingham Dock lies directly west of the site. There are a number of port industrial land uses located within this area including electrical sub stations, freight shipping companies, biofuels company, heating oil supplier and several warehouses and tanks. An open stockpile storage area is located immediately west of the Queens Road site. The town of Immingham is located approximately 500m west/ southwest of the IERRT project. The land beyond the town predominantly consists of agricultural fields. |
| South | The disused railway tracks are located along the southern border of the site boundary, running from northwest to southeast. There are several industries located immediately south of the site. These include shipping companies, waste management companies, manufacturing plants, power plants |

| | |
|---|---|
| | and electrical sub stations. The area south of this is predominantly dominated by agricultural fields. The nearest residential properties are on Queen's Road, approximately 150m south of the closest point of the site. The A180 road lies approximately 2.3km south. |
| East | Directly east of the site are pipelines and disused railway lines. Associated Petrol Terminals and Hargreaves Freight Forwarding Service are located adjacent in the northern half of the site. A sewage works, warehouse and open storage area are located immediately east of the land associated with Long Strip Woodland. A chemical plant is located approximately 210m northeast from the Long Strip Woodland.<br>Further east of the site consists of a few agricultural fields followed by the village of Stallingborough, located approximately 3km to the southeast. Beyond the village lies the Humber estuary which trends from the northwest of the site to the southeast. |

# 4. Site reconnaissance

4.1.1 A site walkover was undertaken by an AECOM engineer and ecologist on 21st October 2021, in the presence of two representatives from ABP. A further walkover of Sub Plot 4 was undertaken on 13th January 2022 by an AECOM engineer.

4.1.2 A summary of the observations made during the visit is provided as follows and a photographic record included as Annex A.

4.1.3 ABP indicated that before the 1900s the site was a poorly drained salt marsh. The site was first developed in 1905/06 when works started on the Port of Immingham. However, the port was not fully operational until 1912. Historically, there were numerous railway sidings present across the site to aid the operation of the docks.

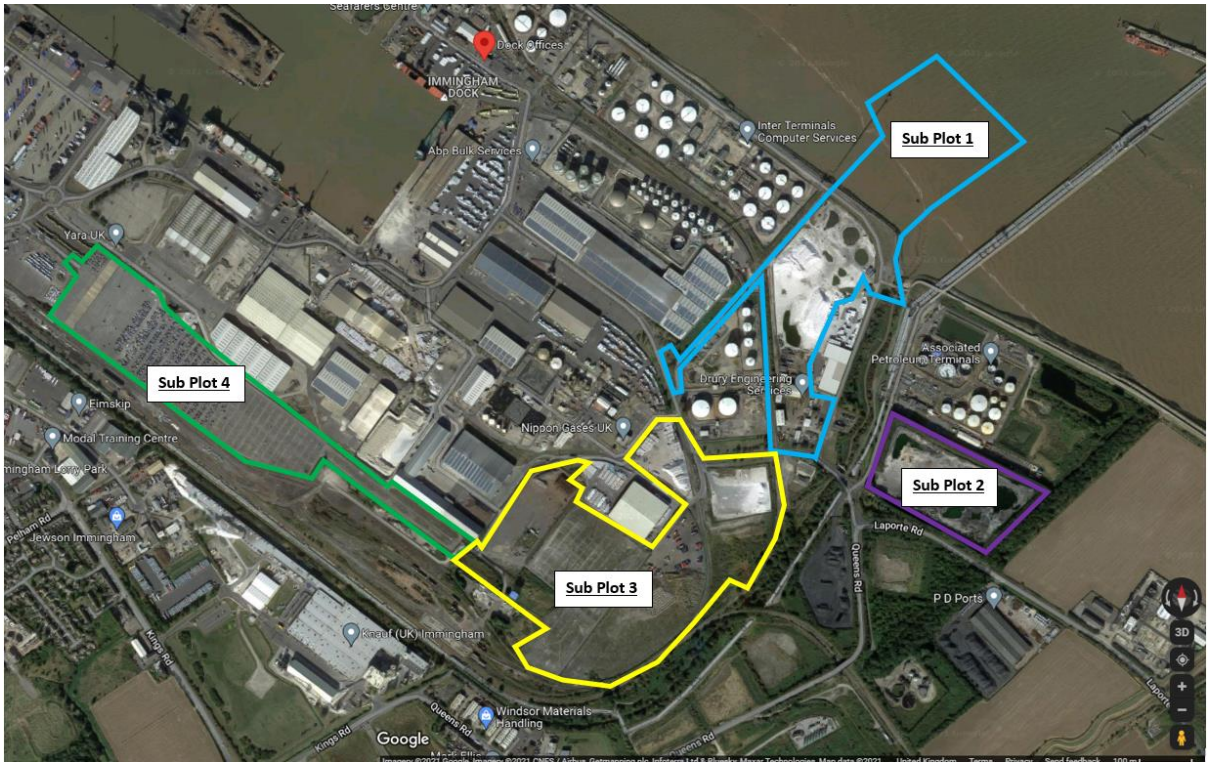


**Figure 1 – Sub Plots of the site***

*Sub Plot 2 is no longer part of the development and is therefore not included in this report.

4.1.4 Observations from the site visit are split into 3 sub plots which are presented in Figure 1. Details of each sub plot are summarised here:

## 4.1 Sub plot 1

- Sub Plot 1 is approximately 13.2ha and is located in the northeast area of the port. The northern section of the plot is within the Humber Estuary where the proposed terminal jetty will be. The remainder of the plot is landside and comprises a mixture of storage areas and warehouses.
- There is a vacant area between the Humber Estuary and the road, which includes a small area of hardstanding which is used as a car park, and a general waste skip.
- There are overground pipelines from the adjacent oil terminal which run along the coastline.
- Immediately east of the plot is a timber yard and warehouse which are outside the site.
- The central section of the plot is currently a storage yard for imported materials including pumice and blast furnace slag. The current ground surface is a mixture of made ground, bituminous macadam, and gravel. Large ponds of rainwater were also noted in various areas

across the site. The ABP representative indicated that this part of the site was previously used as a timber yard.

- The southern section of the plot was not accessible during the site visit as it is currently leased to Drury Engineering Services and PK Construction. Several intermediate bulk containers (IBCs), drums and gas cannisters were observed which appeared to be stored in a maintenance shed/yard type building. On the other side of the road which formed the eastern boundary of the plot were two large electrical substations.

## 4.2 Sub plot 3

- Sub Plot 3 is approximately 16.8ha in area and is situated in the southeast of the port. There are railway sidings within the eastern part of the plot and also running along the eastern boundary. The north-eastern section of the plot consists of a square shaped storage yard which contained stockpiles of pumice at the time of the site visit. Hardstanding was not noted in this area.
- The storage yard in the north-western section of the plot is used to store and bag aggregate. This section of the plot was covered in hardstanding.
- South of the railway sidings running through the north of the plot is a trailer yard with gravel surfacing. There was 1 no. 5,200L diesel tank and 1 no. gas oil tank (size unknown) in a concrete bund which was noted to be damaged. There were 3 no. IBCs within this area, containing household type waste (no liquids). There were also 2 no. old empty fuel tanks and an empty ‘corrosive’ labelled container discarded within this area.
- The south-eastern section of the plot is mostly vacant land; surface is gravelly made ground with vegetation throughout. In the very south-eastern point of the plot there is a culvert (service corridor) which goes below the site which contains power and water supplies. The western section of the plot consists of two storage areas and an area of grassland. The larger of the two storage areas is used to store newly imported vehicles but was vacant at the time of the site visit. The second area is used as a storage area for timber imports. The ground surface on this section of the plot is hardstanding.

## 4.3 Sub plot 4

- Sub Plot 4 is approximately 9ha and situated to the southern end of the port. This plot was not accessed during the site visit.
- The land within this plot was described as flat and used for car parking purposes by GB Terminals. Drains were observed in the southern half of the site which flow into an interceptor. There was not a sheen observed within the drains which indicates there is no evidence of contamination. Standing water was located within low points of the site. A large drain and fire water tank were located off site to the north. No evidence of contamination was observed in the drains.
- The ground cover was estimated to comprise of 42% hardstanding (either tarmacadam or concrete) and 58% gravel chippings. The soil / geology / Made Ground was described as medium to course gravel of macadam. No evidence of asbestos containing materials (ACMs) was observed.
- There was no evidence of spillages, stained ground or discoloured ground observed on the site. Scars in the ground were observed related to service installations, however, there was no evidence of any previous intrusive investigation within the site.
- The surface was inspected for evidence of previous structures and old foundations, however, there was no indication of such structures. Temporary structures are located on the site, including a metal welfare cabin, metal toilet block, plastic / fibre glass security hut and plastic / metal smoking shelter.
- The only form of vegetation on the site was located on a gravelled area and against the wall of a shed.

- The following services were observed on the site: water, drains, electricity (lighting and plugs), closed circuit television (CCTV) and communications. A substation was observed off-site to the west.
- Two waste storage bins were observed on hardstanding during the walkover comprising of a commercial bin (Biffa bin) and a residential brown bin for North East Lincolnshire Council. Waste and cigarette ends were observed on the ground.
- It was noted that ammoniacal nitrogen storage was in close proximity to the site.
- The surrounding land use comprises of the Port of Immingham in the north and east; railway sidings for tanker carriage maintenance in the south; fertiliser stores in the east and a materials storage yard and the Port of Immingham in the west. Refineries and chemical plants were also observed near the site as well as a gypsum-based building material manufacturer (Knauf). An above ground storage tank, possibly for diesel, was observed outside the northern site boundary.

## 4.4 Overall considerations

4.1.5 The AECOM Engineer undertaking the site inspection was informed by the ABP representative during the 2021 inspection that no significant leaks/spills are known to have occurred anywhere within the red line boundary. However, there may have been small, localised spills over the years. The representative did indicate that there may be ACMs present on site relating mostly to lagging and past land use.

4.1.6 No hazardous chemicals are known to be stored anywhere on site within the red line boundary (except for the 2 no. tanks in Sub Plot 3), as confirmed by the site representative.

4.1.7 There do not appear to be any potential access issues regarding a potential future ground investigation. Most areas across the site were open and relatively level terrain with no overhead gantries or cables. Overground pipelines (from the neighbouring Oil Terminal) were noted along the coastline of Sub Plot 1.

# 5. Geological and environmental setting

5.1.1 The environmental setting of the site is of importance because the topography, geology, hydrogeology and hydrology of the site and the surrounding land are the main factors that influence the way in which contaminants which may be in the soil or groundwater can be transported on or off site, potentially impacting on identified receptors. Information has been sourced from the Groundsure® Report (GS-8247704) (Groundsure, 2021) unless stated otherwise.

## 5.1 Published geology & exploratory records

### 5.1.1 Published geology

5.1.2 For the geological assessment of the site, the British Geological Survey (BGS) 1:50,000 Sheet 81 (and including parts of sheet 82 and 90) (Partington) (BGS, 1991), the BGS GeoIndex Onshore Map Application (BGS, 2022), BGS Geological Memoir (BGS, 1994) and BGS Geology 1:10,000 maps included in the Groundsure® Report (GS-8247702) (Groundsure, 2021) were reviewed. Table 5.1 outlines the published geology beneath the site.

**Table 5.1: Published geology**

| Stratum | Expected Location | British Geological Survey (BGS) lithological description |
|---|---|---|
| Made Ground | The BGS GeoIndex 1:50,000 Artificial Map indicates Made Ground underlies most of the site, apart from a small area to the north of Sub Plot 1, and the southeast corner of Sub Plot 3 and the Long Strip Woodland. Although some areas of the site are not mapped as Made Ground on the Artificial Ground BGS 1:50,000 map, it is anticipated that Made Ground will underlie the entire area of the site based on the historical and current development. There are also some small areas of infilled ground indicated on mapping at the southern end of the site. This is congruent with the development history of the site. | Variable composition. |
| Tidal Flat Deposits - Clay and Silt | The majority of the site, apart from the bank of the Humber estuary. | Tidal flat deposits consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit, which is normally a consolidated soft silty clay, with layers of sand, gravel, and peat. |
| Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt and Sand | Along the bank of the Humber estuary. | Composite of 'Beach deposits' and 'Tidal Flat Deposits'. Beach deposits comprise shingle, sand, silt, and clay, which may be bedded or chaotic. Beach deposits may be in the form of dunes, sheets, or banks. |
| Devensian Till | Entire site, underlying the Beach and Tidal Flat deposits. | No description given. Likely comprising a mixture of clay, sand, gravel, and boulders. |
| Bedrock: Burnham Chalk Formation | The northwest trending arm of the site. | White, thinly bedded chalk with common tabular and discontinuous flint bands; sporadic marl seams. |
| Bedrock: Flamborough Chalk Formation – Chalk | The majority of the site, apart from the northwest trending arm of the site. | White, well-bedded, flint-free chalk with common marl seams (typically one per meter). Common stylolitic surfaces and pyrite nodules. |

### 5.1.2 Structural geology

5.1.3 No faults are noted within the vicinity of the site.

### 5.1.3 Historical borehole records

5.1.4 The BGS GeoIndex (onshore) interactive mapping tool (BGS, 2022) and Groundsure® Report (GS-8247704) (Groundsure, 2021) indicates that there are eleven historic boreholes located within the site boundary. Seven of these boreholes are labelled as confidential and, therefore, do not have accessible details. A summary of the details of the four boreholes onsite and five relevant boreholes in the vicinity outside of the site boundary are provided in
5.1.5 Table 5.2. The borehole records are included in Annex C.

**Table 5.2: Historic borehole records**

| Reference | National Grid Reference | Approximate Distance from Site | Hole depth (m) | Date | Geology Encountered (base depth m bgl) |
|---|---|---|---|---|---|
| TA21NW10 | 520410, 415220 | On-Site | 31.09 | 1946 | Made Ground (0.3)<br>Soft Brown Warp (3.66)<br>Soft Blue Warp (9.14)<br>Peat (9.95)<br>Marl Clay (15.24)<br>Chalk and Gravel (22.86)<br>Chalk (31.09) |
| TA21NW3/C | 520940, 415200 | On-Site | 30.48 | 1916 | Warp (9.14)<br>Clay (19.51)<br>Chalk (22.56) * |
| TA21NW12/A | 520620, 415990 | On-Site | 10.66 | - | Blue Warp (0.91)<br>Brown Warp (2.74)<br>Brown and Blue Warp (3.65)<br>Grey Warp (4.87)<br>Brown Warp (5.78)<br>Peat and Grey Warp (8.22)<br>Peat (8.83)<br>Boulder Clay (10.66) |
| TA21NW12/B | 520640, 416010 | On-Site | 11.41 | | No recovery (1.83)<br>Blue Warp (2.74)<br>Peat and Grey Warp (3.65)<br>Brown Warp (4.56)<br>Grey Warp (5.78)<br>Peat and Grey Warp (7.91)<br>Dry Peat (8.82)<br>Grey Sand (9.89)<br>Boulder Clay (11.41) |
| TA21SW339 | 520170, 414890 | 60m S | 47.55 | 1911 | Red Warp (1.83)<br>Blue Warp (7.01)<br>Peat (7.62)<br>Marl Clay (21.34)<br>Sand and Gravel (22.86)<br>Chalk Rock (47.55) |
| TA21SW249 | 520320, 414920 | 66m SE | 64.77 | 1918 | Descriptions start about 1.8m bgl<br>Red Warp (3.35)<br>Black Warp (10.97)<br>Peat (11.28)<br>Marl Clay (20.73)<br>Sand and Gravel (24.08) |

| Reference | National Grid Reference | Approximate Distance from Site | Hole depth (m) | Date | Geology Encountered (base depth m bgl) |
|---|---|---|---|---|---|
| | | | | | Soft Loose Chalk (31.09)<br>Firm Chalk (34.14)<br>Hard Chalk (63.40) |
| TA11NE264 | 519850, 415160 | 74m SE | 73.76 | 1911 | Warp (7.19)<br>Peat (7.62)<br>Marl (17.37)<br>Hard Marl (20.42)<br>Clay (27.43)<br>Red Clay (33.53)<br>Chalk Rock (73.76) |
| TA21NW5 | 520300, 415320 | 38m S | 60.96 | 1945 | Made Ground (0.61)<br>Soft Brown Warp (4.27)<br>Soft Blue Warp (10.61)<br>Boulder Clay with seams of Running Sand (17.68)<br>Sand and Gravel (21.75)<br>Boulder Clay (25.91)<br>Black Gravel (27.43)<br>Soft Dirty Chalk (30.48)<br>White Chalk (60.96) |
| TA21NW20 | 520750, 415160 | 20m E | 11 | - | Silt to sandy Silt with laminae (occasionally of sand) (8.06)<br>Silty fine-grained Sand with silt laminae (7.00)<br>Peat with wood (9.74)<br>Medium light grey mottled Silt (9.83)<br>Sand with chalk pebbles (10.32)<br>Silt with chalk, sandstone, and flint pebbles (10.37) |

**The handwriting on the borehole logs was not clear for Chalk stratum. The handwriting may allude to 'Chalk Bearings' which are referred to in the BGS Chalk Aquifer System of Lincolnshire Research Report (Whitehead and Lawrence, 2006), however, this is not clear. This summary has been included within Chalk.*

5.1.6 The available historic borehole logs provide no stratum descriptions other than those shown in Table 5.2. The boreholes indicate that warp (artificially induced alluvium) is likely present beneath the site to depths of 7-10m below ground level (bgl). Peat was also noted as present, in five of the historic borehole records, between 0.09m and 0.91m thick, at depths between 7 and 11m bgl. Varied strata were noted as underlying the peat and warp, comprised of marine deposits of marl, sand and gravel. Glacial deposits of Boulder Clay (Glacial Till) were noted in borehole TA21NW5, TA21NW12/A and TA21NW12/B, with clay deposits also noted in borehole TA11NE264. Rockhead is encountered at around 22 to 33m bgl and comprises chalk of an unknown thickness.

5.1.8 Groundwater strikes were not recorded on the historic borehole logs. However, the log on borehole TA21NW3/C notes that water was orange in colour throughout pumping, with chloride recorded at 140ppm.

5.1.9 It should be noted that the information shown in the historic logs, which is often relatively old, incomplete, and undertaken to now superseded standards, and in the British Geological Survey (BGS) mapping may not be entirely accurate and representative. Given the number of geological units and the watercourses present, the ground conditions including the rockhead level are anticipated to be relatively variable.

## 5.2 Soils and soil chemistry

5.2.1 The BGS estimated background soil chemistry (Groundsure, 2021) concentrations for the development area where the proposed Ro-Ro facility is located are as follows:

- Arsenic: 15 – 25mg/kg;
- Cadmium: 1.8mg/kg;
- Chromium: 90 – 120mg/kg;
- Lead: 100mg/kg; and
- Nickel: 30 – 45mg/kg.

5.2.2 It should be noted that the frequency of sampling and testing for the BGS estimated soil chemistry resource is very low (approximately 1 sample per $km^2$) (Groundsure, 2021).

## 5.3 Ground subsidence and stability

5.3.1 The following information on ground stability identified for the entire site is based on information provided in the Groundsure® Report (GS-8247704) (Groundsure, 2021). The report classifies the hazard posed by running sands and compressible deposits as *very low* to *moderate*. The northern area of Sub Plot 1 and the southeast corner of Sub Plot 3 are associated with a *moderate* hazard, which corresponds to the areas that were not mapped as Artificial Ground on the 1:50,000 BGS map. The report also classifies the hazard posed by shrink swell clays and landslides as *very low* to *low*. The hazard posed by collapsible deposits and ground dissolution of soluble rocks are classified as *negligible*.

## 5.4 Mining and mineral extraction

5.4.1 The Groundsure® Report (GS-8247704) (Groundsure, 2021) identified that the site is located within a coal mining area as defined by the Coal Authority. The Coal Authority Interactive Map Viewer (The Coal Authority, 2022) confirms that the Humber Estuary is within a Coal Mining Reporting Area. However, the Interactive Map does not identify the site as being within a Development High Risk Area and, therefore, a separate Coal Mining Risk Assessment is not required. This was also confirmed through consultation with the Coal Authority who stated that the site is located outside the defined Development High Risk Area, therefore, there is no requirement to consider the coal mining legacy or to consult with the Coal Authority on subsequent planning stages. There are no known coal outcrops or underground workings within the IERRT project area or within 1000m of the site boundary.

5.4.2 No historical mineral extraction or non-coal mining records are present on site. The Groundsure® Report (GS-8247704) (Groundsure, 2021) noted thirteen historical land uses which involved ground excavation at the surface, identified from Ordnance Survey mapping. There are a further twenty-six historical ground excavation records identified within 250m of the site boundary. These historical surface excavations are likely from industrial construction in the area.

5.4.3 In conclusion, the risk posed from quarrying, mining and landfills can be considered negligible.

## 5.5 Radon

The location of the IERRT project is in an area where less than 1% of properties are affected by radon. The Groundsure® Report (GS-8247704) (Groundsure, 2021) states that no radon protection measures are required (applicable in the construction of new dwellings or extensions). This data is supplied by the BGS.

5.5.1 This information is only relevant if the use of the site changes to a residential use in future.

## 5.6 Environmental designations

5.6.1 The Humber Estuary is designated as a SSSI of 'mixed' interest including geological interest, SAC, SPA, and Ramsar site. The site also falls within a Nitrate Vulnerable Zone.

## 5.7 Hydrogeology

### 5.7.1 Aquifer classification

5.7.1 The superficial geology (Tidal Flat Deposits) underlying the majority of the site footprint and the Devensian (Glacial) Till underlying the Tidal Flat Deposits across the site are classified as an Unproductive Aquifer. Unproductive Aquifers are defined by the Environment Agency as "… *rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow*" (Groundsure, 2021).

5.7.2 The superficial geology (Beach and Tidal Flat Deposits (undifferentiated)) along the bank of the Humber estuary is classified as a Secondary Undifferentiated Aquifer. Secondary Undifferentiated Aquifers are classified by the Environment Agency as being "*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"* (Groundsure, 2021).

5.7.3 The bedrock geology (Burnham Chalk Formation and Flamborough Chalk Formation) underlying the Devensian Till is classified as a Principal Aquifer. Principal Aquifers are defined by the Environment Agency as "*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"* (Groundsure, 2021).

5.7.4 Due to the location of the site close to the Humber Estuary, groundwater is likely to flow towards the estuary, but be tidally influenced.

### 5.7.2 Groundwater vulnerability

5.7.5 The superficial aquifer associated with the Beach and Tidal Flat Deposits (Undifferentiated) is identified as being of *high* groundwater vulnerability in the Groundsure® Report (GS-8247704) (Groundsure, 2021). This is due to the combined classification of a Productive Bedrock Aquifer and Productive Superficial Aquifer along the estuary bank. This indicates areas of the site which can easily transmit pollution to groundwater.

5.7.6 The groundwater vulnerability across the rest of the site is classified as *low* due to the combined classification of the unproductive superficial aquifer overlying the Principal Bedrock Aquifers. This indicates areas that provide greater protection from pollution to groundwater in the Principal Aquifers.

### 5.7.3 Risk of groundwater flooding

5.7.7 In the northern part of the site the risk of groundwater flooding is classified as *negligible* to *moderate* risk. In the south most of the site is a *moderate* risk of groundwater flooding with some areas of *negligible* risk, *low* risk, and *moderate – high* risk. The area of the site associated with Long Strip Woodland and Queens Road has a *low* risk of groundwater flooding.

### 5.7.4 Groundwater abstractions

5.7.8 There are no groundwater abstractions located within the site boundary (Groundsure® Report (GS-8247704)) (Groundsure, 2021).

5.7.9 In the wider area, there are eight groundwater abstractions listed within 1km of the site. Two of the abstractions are listed as active, operated by ABP, and located 65m southeast of the site and 130m northeast of the site, while six are listed as historical. The Groundsure

report describes the two active abstraction points as a 'Raw Water Supply'. ABP confirmed that they hold a licence from the Environment Agency to abstract groundwater for potable use from the active abstraction point located 65m southeast. There are a further nine (9) groundwater abstractions listed between 1km – 2km of the site.

### 5.7.5 Source protection zones

5.7.10 According to the Groundsure® Report (GS-8247704) (Groundsure, 2021), the southeast corner of the site falls within Source Protection Zone (SPZ) SPZ 1 (Inner catchment) and is associated with an active Groundwater abstraction point located 63m southeast of the site boundary. This is defined by the Environment Agency as being "*50-day travel time of pollutant to source with a 50m default radius"* (Environment Agency, 2019). A larger radius of the southeast corner, surrounding the SPZ 1, lies within SPZ 2 (Outer catchment). This is defined by the Environment Agency as being "*400-day travel time of pollutant to source. This has a 250 or 500 metres minimum radius around the source depending on the amount of water taken"* (Environment Agency, 2019). The remainder of the site lies within SPZ 3 (Total catchment) defined by the Environment Agency as being the *"area around a supply source within which all groundwater ends up at the abstraction point. This is the point from where the water is taken. This could extend some distance from the source point"* (Environment Agency, 2019). The land associated with Queens Road and Long Strip Woodland is designated as a SPZ 2 and SPZ3.

### 5.7.6 Nitrate vulnerable zones

5.7.11 According to DEFRA's MAGIC Map application (DEFRA, 2022) and the Groundsure® Report (GS-8247704) (Groundsure, 2021), the majority of the site (landside) is classified as being within a Nitrate Vulnerable Zone. The land associated with Queens Road and Long Strip Woodland is also designated as a Nitrate Vulnerable Zone.

## 5.8 Hydrology

### 5.8.1 Watercourses

5.8.1 The site is partially located within the Humber Estuary. This is referred to within the Groundsure® Report (GS-8247704)(Groundsure, 2021) as the Humber Lower Transitional (ID: GB530402609201).The most current data from the Environment Agency Catchment Explorer (2019) (Environment Agency, 2022b) designates the overall rating of the waterbody as '*moderate*' with a moderate ecological status, and a chemical status of '*fail*' based on priority hazardous substances Polybrominated diphenyl ethers (PBDE), Perfluorooctanesulfonic acid (PFOS), Polycyclic aromatic hydrocarbons (PAHs) and, mercury and its compounds.

5.8.2 The Groundsure® Report (GS-8247704) (Groundsure, 2021) also states that the North Beck Drain river water body catchment (ID: GB104029067575) of the Becks Northern operational catchment lies 409m south of the site. It is recorded as a heavily modified water body (HMWB) due to coastal protection use, flood protection use, and navigational use. This means 'ecological potential' is applied rather than 'ecological status'. The current (2019) overall status of this waterbody is '*moderate*', with ecological potential of '*moderate*', and a chemical status of '*fail*'. The reason for the '*fail*' chemical status is based on priority hazardous substances PBDE and mercury and its compounds.

5.8.3 There are a total of 40 unnamed watercourses of the same description within 250m of the site.

### 5.8.2 Licensed surface water abstractions

5.8.4 There is one surface water abstraction located 1,240m west of the site (Groundsure® Report (GS-8247704) (Groundsure, 2021)). The abstraction is listed as historical and was operated by Immingham Town Council.

### 5.8.3 Artesian aquifers

5.8.5 The site is located in an area which is susceptible to chalk artesian aquifers (Whitehead and Lawrence, 2006). Therefore, there is the potential for artesian aquifers in the chalk bedrock, which could lead to potential blow wells that have implications on boreholes, piling and aquifer protection measures.

### 5.8.4 Risk of river and coastal flooding

5.8.6 The majority of the site falls into the classification of *very low* to *low* risk of river and coastal flooding. An area of land in the north of the site closest to the River Humber, the Long Strip Woodland site and the Queens Road site are classified as *medium* risk of river and coastal flooding.

## 5.9 Summary of environmental site sensitivity

5.9.1 The environmental sensitivity of the site is considered to be as follows with regards to:

- **Groundwater: Low to moderate sensitivity** – The bedrock underlying the site is designated as a Principal Aquifer associated with the Burnham Chalk Formation and Flamborough Chalk Formation. However, this is overlain by up to 34m of low permeability Tidal Flat Deposits and Glacial Till (designated as an Unproductive aquifers) which are likely to afford significant protection to the underlying Principal Aquifer. There is an active groundwater abstraction 63m southeast of the site with an associated source protection zone. SPZ 1, SPZ 2 and, SPZ 3 are present within the site.
- **Surface water: High sensitivity** –The Humber Lower water body is located on site and has a WFD classification of ‘moderate’. The Humber Estuary is also designated as a SSSI, SAC, SPA, and Ramsar site. However, there are no surface water abstractions within 1km of the site.
- **Land use: Low sensitivity** – The site is located in an area of commercial/ industrial land use. The town of Immingham is located approximately 300m southwest of the site.

# 6. Historical & planned development

6.1.1 The historical development of the site and the immediate surroundings has been assessed using historical Ordnance Survey (OS) maps dating from 1884-2021 obtained as part of the Groundsure® Report (GS-8247702) (Groundsure, 2021).

6.1.2 Table 6.1 presents a summary of the main features present on site and within approximately 250m of the site boundary as shown on the historical OS maps which may represent potential sources of contamination. Where dates are stated, these refer to the published date and as such do not necessarily refer to the exact date of existence of a particular feature. Development that may have occurred between map editions is recorded as occurring on the latter published map.

## 6.1 Historical development of the site and surroundings

**Table 6.1: Summary of historical development**

| Date | Scale | On Site Features | Key Off Site Features (<250 m) * |
|---|---|---|---|
| 1884-1888 | 1:2,500<br>1:10,560 | A railway line crosses through the western extent of the site. Another railway line intersects through the east. An associated railway building is present. The rest of this site is undeveloped. A 'spring' is shown associated with 'Habrough Marsh' in the south of the site. The land associated with Long Strip Woodland is shown to be covered in trees. Buildings associated with 'Flagstiff' and a well are denoted on the northern site border. | The Grimsby District Electric Light Railway crosses from the northwest into the site. |
| 1905-1910 | 1:2,500<br>1:10,560 | No significant change. | 'Springs' are shown approximately 145m south of the Long Strip Woodland. |
| 1930-1932 | 1:2,500<br>1:10,560 | Large increase in the number of railway sidings and railway buildings all over the southern and western areas of the site. The 'spring' is no longer denoted in the south of the site. The building and well associated with 'Flagstiff' are no longer denoted. | 'Sewage Works (Grimsby R.D.C.)' is denoted immediately east of the Long Strip Woodland. The 'Grimsby District Electric Light Railway' crosses south of the Long Strip Woodland and over the area of the Queens Road land. An 'Engine Shed' is located within 100m south of the site associated with the railway lines. A 'Store' related to the railway is located within 100m-250m west of the site. The Eastern Jetty Railway is present northwest of the site within 250m. Several 'Coal Hoists' are noted approximately 300m northwest of the site with associated railway tracks crossing into the site. |
| 1938-1947 | 1:10,560 | No significant change. | No significant change. |
| 1951-1956 | 1:10,560 | 'Queens Road' is denoted adjacent to the railway. | No significant change. |
| 1964 | 1:2,500 | The Grimsby District Electric Light Railway that runs through the north of the site is marked as 'disused'. | There are several circular tanks and a Depot present immediately northwest of the site. 'Works' are present within 100m northwest of the site and 31m east of the Long Strip Woodland. The jetty northwest of the site within the Humber Estuary has been extended to within 100m of the site. |
| 1964-1969 | 1:2,500<br>1:10,560 | There are several pipelines running through the centre of the site. A pipeline runs through the | An oil storage depot and chemical works with associated tanks is located just outside the site boundary in the centre of the site. Additional oil |

| | | | |
|---|---|---|---|
| | | western site boundary from northeast to southwest. In the southwest of the site (north of the confluence of railway tracks) an area formally labelled as a drain is now labelled as a pipeline. 'Green Lane' and several 'Drains' cross over the northern area of the Long Strip Woodland. | storage depots are located just outside the northwest and northeast site boundaries. An electrical substation is present just outside the eastern site boundary next to disused railway. A warehouse is present next to the electrical substation. The area formerly labelled as 'Works' are now labelled as chemical works present within 100m northwest of the site. An electrical substation is present next to the chemical works. A chemical works is present within 250m west of the site. 'Tanks' are denoted within the sewage works and an unspecified 'Works' is denoted in the same area. An 'Electric Sub Station' is denoted immediately east of the Long Strip Woodland. |
| 1970-1971 | 1:2,500 | No significant change. | North of the site within the Humber Estuary there has been the development of a jetty (oil terminal). Green Lane is now denoted as 'Laporte Road'. The 'Works' adjacent to Long Strip Woodland are now identified as 'Sewage Works' and a 'Warehouse' is denoted approximately 85m to the east. |
| 1969-1972<br>1971-1973<br>1972<br>1972-1976 | 1:2,500<br>1:10,000 | No significant change. | The 'Engine Shed' in the south of the site has been separated into an 'Engine Shed' and a 'Wagon Repair Shed'. A tank is noted between them.<br>An electrical substation is shown immediately adjacent to the engine shed. The Grimsby Light Electric Railway is no longer denoted south of the Long Strip Woodland and adjacent to Queens Road.<br>A 'Drain' is denoted adjacent to the northern section Queens Road. |
| 1973-1978<br>1975-1978<br>1976-1979<br>1979 | 1:2,500<br>1:10,000 | No significant change. | No significant change. |
| 1977-1982<br>1980 | 1:2,500 | No significant change. | No significant change. |
| 1979-1985<br>1980-1985<br>1984<br>1982-1985 | 1:2,500<br>1:10,000 | No significant change.<br>Some missing information on maps. | One 'Coal Hoist' is still noted with the associated railway appearing to be partially removed and disused. 'Filter Beds' are denoted associated with the sewage works. |
| 1985-1988<br>1986<br>1988 | 1:2,500<br>1:10,000 | No significant change. | A Depot is present within 100m southwest of the site. A 'Works' is present 50m east of this Depot. The chemical works located 100m northwest of the site are again labelled as 'Works'. A 'Gas Valve Compound' is noted at the northwest boundary. |
| 2001 | 1:10,000 | No significant change. | No significant change. |
| 2003 | 1:1,250 | No significant change. | One of the tanks associated with the oil storage depot located just outside the site boundary in the centre of the site has been removed. |
| 2010 | 1:10,000 | No significant change. | The roundabout west of the site has been constructed. The Coal Hoist is no longer noted on mapping. |
| 2021 | 1:10,000 | No significant change. | The circular tanks associated with the oil storage depot to the northwest of the site boundary are no longer present. The 'Works' |

100m northwest of the site are no longer noted on mapping.

*All distances are approximate.

## 6.2 Planning authority records

6.2.1 The Planning Application portal for North East Lincolnshire Council (North East Lincolnshire Council, 2022) has been reviewed to provide information on historical planning applications submitted to the Local Authority across the wider Immingham Dock site. A summary of historical planning applications is presented in Table 6.2.

**Table 6.2: Summary of historical on-site planning applications and hazardous substances consents**

| Date | Reference | Proposal | Decision |
|---|---|---|---|
| Nov 1992 | HSC/DC/10 | Application for Deemed Hazardous Substances Consent - Manufacture and storage of fertilizers and chemicals. Raw materials and intermediate products stored on site | Deemed Consent |
| Nov 1992 | HSC/DC/11 | Application for Deemed Hazardous Substances Consent - Handling and storage of agricultural fertilizers | Deemed Consent |
| Jun 2007 | DC/1635/06/IMM | Extension to existing tank farm | Approved with Conditions |
| Mar 2008 | DC/214/08/IMM | Construction of a carbon steel pipeline for bioethanol from Immingham Dock East Terminal to Moody Lane Grimsby | Approved with Conditions |
| February 2010 | DC/1030/09/IMM | Proposed asphalt store with one side fully open | Approved with Conditions |
| April 2018 | DM/0172/18/DEM | Prior notification application to demolish shed | Withdrawn |

*Source: North East Lincolnshire Council (2022)*

## 6.3 Summary

6.3.1 Based on the information reviewed, the potential for the underlying ground at the site to have been impacted as a result of historic activities is considered to be:

- **Moderate** with respect to historic on-site industrial activities. The site was first developed in 1905/06 when works started on the Port of Immingham. However, the port was not fully operational until 1912. The 1930 historical mapping depicts the development of railway lines across the site to supply the various commercial/industrial businesses across the wider site. The site is anticipated to be underlain by Made Ground of unknown composition associated with the historical development; and
- **High** with respect to historic and recent off-site activities. There are a variety of different historical and current industrial activities such as various unspecified depots, chemical works, oil storage depots, mining equipment, electrical substations, and unspecified works premises located close to the site.

6.3.2 This information is assessed further within the preliminary conceptual site model presented in Section 8.

# 7. Previous ground investigations

7.1.1 This section presents a summary of the results of the existing ground investigation data available for areas of Immingham Dock adjacent to the IERRT project. A ground investigation was undertaken in May 2022 and a Ground Investigation Report was produced by AECOM (AECOM, 2022). The ground investigation comprised of seven trial pits between 1.8m bgl and 3.3m bgl within Made Ground and reworked natural deposits. Soil samples were obtained for chemical laboratory analysis. Further information is provided in the AECOM Phase 2 Ground Investigation Report.

7.1.2 A confirmatory GI is being undertaken and will be completed prior to submission of the DCO application. The findings of the confirmatory GI will be assessed and detailed in an interpretative report.

## 7.1 19112 GD Pickles Ltd, 2020, Geoenvironmental Investigation Report

7.1.3 The GD Pickles ground investigation was undertaken between 24th – 29th February 2020 (GD Pickles, 2020). The location of the exploratory holes were drilled within Sub Plot 1 and Sub Plot 3. This comprised the completion of six no. cable percussion boreholes, one rotary percussive borehole, and 15 no. machine excavated trial pits using a 9-tonne backhoe excavator. In situ CBR tests were undertaken in trial pits where ground conditions allowed. Monitoring wells were installed in two no. of the cable percussion boreholes (BH03 and BH05) to enable monitoring of groundwater level conditions.

7.1.4 The ground conditions are summarised as follows:

- A layer of Made Ground was found across the whole Site. Made Ground was recorded as variable and, in most areas, appeared to be imported construction /industrial waste likely dating back to when the land was originally reclaimed. The maximum depth of Made Ground was 5.0m but generally between 0.8m and 3.0m in depth. Perched groundwater was recorded within the Made Ground.
- Below the Made Ground, natural strata of the Tidal Flat Deposits were recorded. The shallow soils often comprised a firm orange, brown sandy CLAY and extended to depths of 3.0m bgl. Soft grey Clays and Silts which are variably organic were recorded beneath the firm orange, brown sandy Clay.
- The Boulder Clay was encountered from *circa* 10m and comprised a stiff brown gravelly sandy CLAY. In RBH1 this was proven to 18.5m bgl.
- Beneath the Boulder Clay dense SAND & GRAVEL was initially encountered followed by a thin layer of blowing sands. Below this the strata are interpreted in the ground investigation report to be the Chalk Gravels, Putty Chalk and hard White Chalk, the latter encountered at 28m bgl.
- No notable groundwater table was encountered/recorded in Tidal Flat Deposits or the Boulder Clay.
- Groundwater under sub artesian pressure was encountered at 18m bgl in RBH1.
- Surface water ponding occurred across the south, east and north of the wider site.

7.1.5 The chemical testing results are summarised as follows:

- Testing indicates that, except in 1 location (TP 24) in Yard 6 (west corner of Sub Plot 1), all contaminants were recorded at concentrations that did not exceed the corresponding GAC for a Commercial Land-use. Due to the nature of some of the fill materials this was unexpected.
- No asbestos containing materials were noted during the investigations. No asbestos was detected in the samples tested.
- The report concluded that based on the limited dataset available, there was no identified requirement for remediation. Contamination including asbestos may be present in areas not investigated.

## 7.2 I19 Exploration Associates, 1980, British Transport Docks Board Immingham Dock – Eastern Jetty Final Report on Site Investigation S2552

7.2.1 Four boreholes were constructed to depths between 34.5m bgl and 40m bgl (Exploration Associates, 1980). The ground conditions generally comprised interbedded clays, sand, and gravel. One borehole (BH4) reported 5.0m thickness of Made Ground comprising slag with silt, sand, and cobbles and boulders of clay.

## 7.3 I5 Ground Explorations Ltd, 1967, Report No.3722, Exploration of Ground Conditions at Immingham for British Transport Docks Boards

7.3.1 The site investigation was carried out in April 1967 to determine the ground conditions at Immingham for British Transport Docks Boards (Ground Explorations Ltd, 1967). The ground conditions are summarised here:

- Soft alluvial deposits containing peat were reported near to the surface. These were underlain by boulder clay, which in turn was underlain by interglacial deposits and then a second strata of boulder clay.
- The interglacial deposits were recorded as primarily comprising sandy clays and laminated clay, with a layer of sand or gravel beneath the upper boulder clay unit.
- The superficial deposits were underlain by chalk which was encountered at levels between -84ft (25.6m) bOD and -91ft (27.7m) bOD.

## 7.4 I5/I27 The British Transport Docks Board, 1965, Proposed Oil Jetties at Immingham, Lincolnshire, Report of Site Investigation

7.4.1 A ground investigation was carried out, from 6th August to 11th September 1965, at Immingham Dock at Habrough Marsh (Site C) and South Killingholme (Site B) on the instruction of Rendel, Palmer & Tritton, consulting engineers to the British Transport Docks Board (British Transport Docks Board, 1965). The ground investigation was undertaken to support the proposed construction of an oil jetty at Immingham on the River Humber. A total of 17 boreholes were sunk to depths from 30ft (9.1m) bOD to 106ft (32.3m) bOD and the logs showed the following general strata sequence:

- Alluvium (very soft to soft organic silty clay);
- Laminated Clay (firm to stiff, laminated clay with pockets and partings of silt and fine sand);
- Boulder Clay (firm to hard, silty clay with fine to medium gravel including chalk fragments);
- Sand and gravel (loose to medium, dense, sand and gravel including chalk fragments; and
- Chalk (fissured white chalk).

# 8. Regulated activities and statutory consultation

8.1.1 Regulated activities within 250m of the site could, depending upon their nature, represent potential off-site sources of contamination. Whilst a 1km search area was generally adopted; this section places emphasis on those activities present within 250m.

8.1.2 Table 8.1 summarises pertinent regulatory information obtained from the Groundsure® Report (GS-8247704) (Groundsure, 2021) for records of regulated potentially contaminative industrial activities within 250m of the site. Full details of all regulatory information are available within the Groundsure® Report (GS-8247704) (Groundsure, 2021):

**Table 8.1: Summary of regulatory information from Groundsure report**

| Subject | No. of Records On-Site | No. of Records 0-50m | No. of Records 50-250m | Description of On-Site Records |
|---|---|---|---|---|
| **Past Land use** | | | | |
| Historical Garages | 0 | 0 | 3 | - |
| Historical Energy Feature | 0 | 5 | 13 | - |
| Historical Tanks | 1 | 34 | 95 | • Unspecified Tank (1996-1999) |
| **Waste and Landfill** | | | | |
| Historical Landfill (EA/NRW Records) | 2 | 0 | 0 | • Site Reference: 55/00/0062, 2000 Waste Type: Inert, Industrial<br>• Site Reference: 55/19/0166 Operator: British Transport Docks Board Waste Type: Inert, Industrial, Commercial, Household |
| Active or Recent Landfill | 0 | 0 | 1 | - |
| Historical Waste Sites | 0 | 0 | 1 | - |
| Licensed Waste Sites | 2 | 0 | 5 | • Site Name: Sandstop Recycling Operator: Sandstop Quarries Ltd Type of Site: Inert & excavation Waste TS + treatment Size: 25000 tonnes<br>• Site Name: Immingham Dock Transfer Station Operator: Lockerbie Fred Type of Site: Special Waste Transfer Station Size: 25000 tonnes |
| Waste Exemptions | 1 | 4 | 0 | • Reference: WEX236923, Not on a farm, Description: Spreading waste on non-agricultural land to confer benefit. |
| **Current Industrial Land Use** | | | | |
| Licensed pollutant release (Part A (1)) | 0 | 0 | 30 | - |
| Licensed pollutant release (Part A(2)/B)) | 0 | 0 | 6 | |
| Control of Major Accident Hazards (COMAH) site | 5 | 0 | 2 | • Company: Exolum Immingham Limited, Immingham East Terminal Operational Status: Current COMAH Site Tier: COMAH Upper Tier Operator<br>• Company: Exolum Immingham Limited, Immingham West Terminal Operational Status: Current COMAH Site Tier: COMAH Upper Tier Operator |

| | | | | |
|---|---|---|---|---|
| | | | | • Company: Associated British Ports, Immingham Dock<br>Operational Status: Current COMAH Site<br>Tier: COMAH Upper Tier Operator<br>• Company: Associated British Ports, ABP Bulk Park<br>Operational Status: Current COMAH Site<br>Tier: COMAH Upper Tier Operator<br>• Company: Associated Petroleum Terminals (Immingham) Limited, Main Terminal<br>Operational Status: Current COMAH Site<br>Tier: COMAH Upper Tier Operator |
| Licensed Discharges to Controlled Waters | 6 | 5 | 7 | • Only one discharge consent is currently active on site: Permit Number: PRNTS18163<br>Status: modified - (Water Resources Act (WRA) 91 schedule 10 - as amended by Environment Act (Env Act) 1995)<br>Effluent Type: sewage & trade combined – unspecified<br>Receiving Water: River Humber |
| Pollutant release to public sewer | 0 | 0 | 4 | - |
| Hazardous Substance/Storage | 0 | 4 | 6 | - |
| List 1 Dangerous Substances | 1 | 1 | 2 | • Name: Hydro Agri<br>Status: Active<br>Authorised Substances: Mercury (other), Cadmium<br>Receiving Water: River Humber |
| List 2 Dangerous Substances | 1 | 2 | 4 | • Name: Hydro Agri<br>Status: Active<br>Authorised Substances: -<br>Receiving Water: - |
| Pollution Incidents (EA/NRW) | 1 | 0 | 1 | • Incident Date: 20/08/2001<br>Pollutant: Oils and Fuel<br>Pollutant Description: Unidentified Oil<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| Pollution Inventory Substances | 0 | 0 | 2 | - |
| Pollution Inventory Waste Transfers | 0 | 0 | 2 | - |

8.1.3 There are no records, noted in the Groundsure® Report (Groundsure, 2021), of historical landfill (BGS records), historical landfill (LA/mapping records), electricity cables, gas pipelines, sites determined as contaminated land, regulated explosive sites, radioactive substance authorisations, pollutant release to surface waters (red list), pollution inventory radioactive waste recorded within 250m of the site.

## 8.1 Utilities summary

8.1.4 A utilities report was obtained from Landmark (Ref: 285109404_1) (Landmark Information, 2021). The full report is included as Annex D. A total of twenty utility companies were contacted. Ten utility companies provided responses that they may be affected by the IERRT project. The list of affected utilities and a summary of their responses are included in Table 8.2. It should be noted that this list may not include all utilities present or those that have been decommissioned or added by site occupants. It should be noted that the Landmark Utilities Report was received in October 2021 and updated an updated utilities summary report should be sought.

**Table 8.2: Affected utilities**

| Utility | Category | Location of affected utility/ Response from provider | Date Issued |
|---|---|---|---|
| Anglian Water | Water, Sewerage | A decommissioned water line runs east to west between Sub Plot 1 and Sub Plot 3, and beneath Queens Road. A foul sewer is located immediately adjacent to the land associated with Long Strip Woodland. | 19th October 2021 |
| Cadent Gas | Gas | A gas pipeline labelled as 'IP (Intermediate Pressure) mains' runs north to south through the centre of sub plot 4. | 19th October 2021 |
| Environment Agency | Environmental Agency | The Environment Agency have not conducted a specific search of their records. They state that an environmental permit may be needed if work in, under, over or near to a main river flood or sea defence is intended. | 19th October 2021 |
| Line search before U dig (LSBUD) | Other | LSBUD identified Cadent Gas and National Grid Gas Transmission as affected assets. | 19th October 2021 |
| Network Rail | Rail | Within Sub Plot 3 and Sub Plot 4 Network Rail have identified: buried gas pipes from mileage, buried water main, buried foul water service, buried service, and buried electrical cables. | 19th October 2021 |
| North East Lincolnshire Council | Council | Service plans highlight sewers running east of Sub Plot 3, along Queens Road and through the land associated with Long Strip Woodland. The council advise that there might be electrical cables serving as highway apparatus which are not shown on electricity company records. Their records of underground apparatus are also not complete, and they advise to take reasonable care to identify and protect any additional apparatus discovered. | 19th October 2021 |
| Northern PowerGrid | Electric | The drawings provided depict underground power lines present within Sub Plot 1 and Sub Plot 3, beneath Queens Road and beneath the Long Strip Woodland. | 19th October 2021 |
| Openreach – [British Telecommunications] | Telecom | The drawings provided depict BT lines present within Sub Plot 1. Sub Plot 3 and Sub Plot 4 and beneath Queens Road. | 19th October 2021 |
| Utility Assets | Electric | Utility Assets stated that they do not have any records of apparatus present within the site. They note that care should be taken when excavating around electricity cables in the event that not all cables present may be accurately shown. | 19th October 2021 |
| Virgin Media | Telecom | Drawings provided depict a duct/ trench and its associated chambers/ poles present crossing east to west between Sub Plot 1 and Sub Plot 3 and beneath Queens Road. Another duct/ trench and its associated chambers/ poles | 19th October 2021 |

## 8.2 Unexploded ordnance

8.2.1 According to regional unexploded ordnance (UXO) risk maps published by Zetica (Zetica UXO, 2022a), the site lies within a zone that experiences a low risk of UXO. It is estimated that no more than 15 unexploded bombs are likely to be present within an area of 1,000 acres.

8.2.2 A SafeLane Global UXO Report (GS-8247703) (Groundsure, 2021) obtained on the recommendation of Groundsure has identified the risk of potential unexploded ordnance at the site. The preliminary assessment resulted in a medium risk from German UXO. On the recommendation of SafeLane Detailed UXO Threat Assessment Desk Top Study was commissioned for this site.

### 8.2.1 Detailed UXO threat assessment desk top study summary

8.2.3 The SafeLane Global Detailed UXO threat Assessment Desk Top Study (SafeLane Global Limited, 2021) is included as Annex E.

8.2.4 Within the study, the risk was assessed to be *medium* based on the 'German Air Delivered High Explosive (HE) bombs and Anti-Aircraft projectiles' UXO type. This classification of medium risk has been derived from various potential sources of German air delivered UXO, such as the recordings of several bombing raids over the docks, reports of bombs dropped on railway sidings near the site, a lack of aerial photography of the site prior to 1950 when bomb damage would have been repaired, the possibility of unexploded bombs (UXB) falling into soft tidal mud and being obscured by mobile sediment or water, and the possibility of UXB coming to rest up to 15m away from its entry point due to the J curve effect in soft ground, ballast or mud.

8.2.5 This medium risk classification has also been derived from various potential sources of British or Allied UXO, such as the presence of several defensive positions and army camps, anti-aircraft defensive locations engaged in both WWI and WWII, and the possibility of UXO obscured by mobile tidal or marine sediment, thus, remaining undiscovered.

8.2.6 Recommended minimum mitigation measures have been proposed to support the proposed groundworks at the site and are detailed in Table 8.3. Additional measures to those proposed in Table 8.3 include measures such as site-specific explosive ordnance safety and awareness briefings to all personnel conducting intrusive works, site specific safety instruction and explosive ordnance disposal engineers. Further detail on these additional measures can be obtained within the full report in Annex E.

**Table 8.3: Recommended risk mitigation for a medium risk site**

| Risk Level | Environment | Planned Site Activity | Recommendations |
|---|---|---|---|
| Medium | Land-based | Shallow Intrusive Works (e.g., excavations) | • UXO Safety & Awareness Briefing (Toolbox Brief (TBB))<br>• Site Specific Safety Instructions Training Course<br>• Non-Intrusive (NI) Magnetometer Survey (Greenfield areas only)<br>• Target Investigation (Required as a follow-on from NI magnetometer survey)<br>• Search & Clear<br>• Explosive Ordnance Disposal (EOD) Engineer Watching Brief (for brownfield areas unsuitable for NI magnetometer survey) |
| | | Deep Intrusive Works (e.g., piling) | • UXO Safety & Awareness Briefing (TBB)<br>• Site Specific Safety Instructions Training Course<br>• Intrusive Magnetometer Survey of pile/borehole positions |
| | Marine based | Shallow Intrusive Works (e.g., excavations) | • UXO Safety & Awareness Briefing (TBB) |

| Risk Level | Environment | Planned Site Activity | Recommendations |
|---|---|---|---|
| | | | • Site Specific Safety Instructions Training Course<br>• NI Magnetometer UXO Survey<br>• NI 3D Seismic Investigation from the 2m contour |
| | | Deep Intrusive Works (e.g., piling) | • UXO Safety & Awareness Briefing (Toolbox Brief, TBB)<br>• Site Specific Safety Instructions Training Course<br>• Seismic Investigation: Further NI Survey over exact locations to identify and mitigate risk and geological assessment for further risk management |

8.2.7 The risk of contamination assessed for the site is based on the likelihood that the site was contaminated, the risk of the contaminant item remaining, and the likelihood of, and potential consequences, should the item be struck during the proposed works.

8.2.8 Table 8.4 presents the risk that each ordnance type presents to the scope of works for the project site.

**Table 8.4: Likelihood of risk**

| Type of Ordnance | Likelihood of Contamination | Likelihood of UXO remaining | Likelihood of encounter | Potential Consequence | Overall Risk Level |
|---|---|---|---|---|---|
| German High Explosive Bombs | Medium | Medium | Medium | Severe | Medium |
| German 1 kg Incendiary Bombs | Low | Low | Low | Severe | Low |
| Allied Anti-Aircraft Shells | Medium | Medium | Medium | Minor | Medium |
| British/Allied Small Arms | Medium | Low | Low | Not Significant | Low |
| Land Service Ammunition | Medium | Low | Low | Moderate | Low |

### 8.2.2 Zetica UXO desk study and risk assessment

8.2.9 A Zetica UXO Desk Study and Risk Assessment (P11479-22-R1) (Zetica UXO, 2022b) was obtained by ABP for the site dated to 29th July 2022.

8.2.10 The Desk Study and Risk Assessment notes that the overall UXO hazard to the site is considered Low. Zetica define *Low* as "*there is no positive evidence that UXO is present, but its occurrence cannot be totally discounted*" (Zetica UXO, 2022b). The assessment did not identify significant sources of UXO; however, it is noted that potential migration of UXO onto the site as a result of marine processes should not be disregarded. A summary of the UXO risk assessment is provided in Table 8.5. Further detail on these additional measures can be obtained within the full report in Annex E.

**Table 8.5: Summary of the Zetica UXO risk assessment for the site**

| Potential UXO Hazard | Anticipated Works | UXO Risk |
|---|---|---|
| UXB | Dredging | Low |
| | Shallow Excavations (<1m bgl) | Low |
| | Deep Excavations | Low |
| | Boreholes / Piling | Low |
| Other UXO | Dredging | Low |
| | Shallow Excavations (<1m bgl) | Low |
| | Deep Excavations | Low |
| | Boreholes / Piling | Low |

*Source: Zetica UXO Desk Study and Risk Assessment (P11479-22-R1) (Zetica UXO, 2022b)*

8.2.11 A summary of the proposed mitigation measures is provided in Table 8.6.

**Table 8.6: Summary of the Zetica UXO risk and mitigation measures for the site**

| Proposed Works | UXO Risk | Recommended Mitigation |
|---|---|---|
| Dredging | Low | <u>UXO Awareness Briefing</u><br>• A formal UXO awareness briefing should be provided to dredging operations workers to ensure appropriate action is taken if there is a suspect find. The briefing should provide a background to potential UXO hazards, awareness of the UXO risk and knowledge of the actions to be taken if a suspect item is found.<br>• There should also be an Emergency Response Plan detailing procedures for a UXO find in agreement with the local port authority and other stakeholders. Zetica recommend that the information in the Emergency Response Plan should follow CIRIA C754 'Assessment and Management of Unexploded Ordnance (UXO) Risk in the Marine Environment' (CIRIA, 2016) and the Crown Estate Guidance document 'Dealing with Munitions in Marine Sediments' (Crown Estate, 2010).<br><u>Explosive Ordnance Clearance (ECO)</u><br>• An ECO Engineer can be present during dredging operations if additional comfort is required. |
| Excavations | Low | • Proceed with works.<br>• A formal UXO awareness can be provided if additional comfort is required. |
| Boreholes / Piling | Low | • Proceed with works. |

*Source: Zetica UXO Desk Study and Risk Assessment (P11479-22-R1) (Zetica UXO, 2022b)*

## 8.3 Summary

8.3.1 Based on the information reviewed above and within the Groundsure® Report, the potential for contemporary registered or consented land use to pose a risk of contamination to the site is considered:

- **Moderate** given that there is one historical tank, two historical landfills and two licensed waste sites identified as being on site.

- **High** with respect to historic and contemporary off-site activities given the number of tanks identified within the vicinity of the site.

8.3.2 This information is assessed further within the preliminary conceptual site model presented in Section 9.

# 9. Initial Conceptual Site Model (iCSM)

## 9.1 Introduction

9.1.1 This section is aimed at identifying possible risks, if any, arising from substances used or deposited on-site, or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered.

## 9.2 Assessment framework

9.2.1 Current legislation relating to contaminated land in the UK is contained within Part 2A of the Environmental Protection Act 1990 (UK Public General Acts, 1990) , which was inserted by Section 57 of the Environment Act 1995 (UK Public General Acts, 1995) and by Section 86 of the Water Act 2003 (UK Public General Acts, 1993) and elaborated within the Contaminated Land (England) Regulations 2006 [S.I. 2006/1380] (UK Statutory Instruments, 2006) (amended 2012 [S.I. 2012/263]) (UK Statutory Instruments, 2012).

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

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

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

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

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

9.2.6 The following sections detail the conceptual site model, which has been developed for the site with the view to assessing the potential risks during construction and upon completion of the IERRT project. The potential sources of contamination, potential receptors and potential pollutant pathways are identified and presented in Table 9.1 to Table 9.4.

## 9.3 Potential sources

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

**Table 9.1: Potential sources**

| Potential Source | Description |
|---|---|
| Made Ground | Made Ground is expected to be present within the majority of the footprint of the IERRT project. This Made Ground may contain asbestos-containing materials and has the potential to contain metal, inorganic and/or organic contaminants. Leaks/spills of contaminants associated with vehicles used and stored on site, hazardous materials |

| Potential Source | Description |
|---|---|
| | used and stored on site and hazardous waste stored on site have the potential to have occurred, which may have migrated into the Made Ground. |
| Natural Strata | The natural strata consist of superficial Tidal Flat Deposits and a bedrock of Chalk. Free phase contamination may have migrated into the natural strata. |
| Soil Leachate | Potential contaminants may be leached from Made Ground and historical landfill sources at the site. |
| Groundwater | Shallow groundwater may be present within the Made Ground and potential contaminants may be present due to the historical industrial use of the site. |
| Ground Gas | Concentrations of ground gases (methane and carbon dioxide) could originate both from Made Ground and naturally from organic content within the underlying deposits. Methane also has the potential to be produced from the historical landfill sites. Carbon dioxide has the potential to be generated from the underlying Chalk deposits. |
| Off-site Sources | Possible migration of potential contaminants associated with the adjacent railway lines and sewage works. Various historical and contemporary industries are present in the surrounding area which could be potential contamination sources. |

## 9.4 Contaminants of Potential Concern (CoPC)

9.3.2 Table 9.2 presents a summary of the potential contaminants of concern.

**Table 9.2: Potential Contaminants of Concern (CoPC)**

| Location | Potential Source | Potential Contaminants of Concern |
|---|---|---|
| On site | Made Ground of unknown source | Heavy metals, asbestos, sulphate (water soluble), sulphate (acid soluble), easily liberated sulphide, sulphur, pH, TPH, SVOCs including PAHs and VOCs. Ground gases such as carbon dioxide and methane. |
| On site | Current land uses including slag and pumice stockpiles, one5,200 L diesel tank and one gas oil tank (size unknown) | TPH, metals and sulphur |
| On site | Landfills | Heavy metals, asbestos, organic compounds. Ground gases such as carbon dioxide and methane. |
| Immediately south and historically on site | Railway and cuttings | Heavy metals, asbestos, TPH and PAHs. |
| Immediately west | Oil Storage Depots | Hydrocarbons, organic compounds, asbestos. |
| Immediately west | Chemical Works (fertiliser) | Heavy metals, acids, alkalis, ammonium salts, phosphates and superphosphates, organic chemicals, fuels, lubricating oils, PCBs, wastewater treatment chemicals (e.g., alum, sulphuric acid, ammonium hydroxide, asbestos. |
| Immediately east of Long Strip Woodland | Sewage works | Heavy metals, inorganic ions, organics, micro-organisms, treatment chemicals (alum, lime, polyelectrolytes, hydrochloric acid, sodium hydroxide, ferric chloride), asbestos. |
| Several located within 10m – 250m east, south, and west | Electricity substations | PCBs |

| | | |
|---|---|---|
| Onsite and several located within 50m – 250m east, south, and west | Unspecified depot/works | Heavy metals, asbestos, sulphate (water soluble), sulphate (acid soluble), easily liberated sulphide, sulphur, pH, TPH, SVOCs including PAHs and VOCs. |

TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
SVOC: Semi-Volatile Organic Compounds
PAH: Polycyclic Aromatic Hydrocarbons
PCBs: Polychlorinated biphenyls

## 9.5 Potential receptors

9.5.1 Table 9.3 lists the potential receptors at the site of the IERRT project.

**Table 9.3: Potential receptors**

| Potential Receptor | Description |
|---|---|
| Future Site Visitors | Users of the site may be affected by the presence of elevated concentrations of certain determinands. However, the transient nature of some visitors will limit the exposure time. |
| Onsite workers | Workers at the site may be affected by the presence of elevated concentrations of certain determinands. These workers will have a longer-term exposure to potential contaminants at the site which may lead to chronic health conditions.<br>The highest risk areas will be within the confined areas of the new buildings constructed. As the majority of the site will consist of parking and storage areas, there is only a very low risk to on site workers from outdoor inhalation. |
| Off-site Human Health Receptors | This includes residents, commercial and industrial buildings, and occupiers of surrounding properties.<br>The nearest residential properties identified are located approximately 200m south of the site and therefore are not considered to be potential receptors.<br>The nearest commercial/ industrial buildings are located immediately adjacent to the west of the site within the wider Immingham Dock area. |
| Controlled Waters | This includes on-site and off-site water courses:<br><u>Surface Water</u><br>• Humber Estuary; and<br>• Offsite unnamed surface water courses (drains) identified to the east which may be connected to other drains which discharge to the Humber Estuary.<br><u>Ground Water</u><br>• Superficial Secondary undifferentiated aquifers (Beach and Tidal Flat Deposits);<br>• The Tidal Flat Deposits and Glacial Till are classified as unproductive strata and therefore not considered to be Controlled Waters receptor; and<br>• Principal bedrock aquifers (Flamborough Chalk Formation and Burnham Chalk Formation) underlying the site, including a Source Protection Zone associated with a potable water abstraction approximately 65m southeast of the site. |
| Development Infrastructure | Concrete is a receptor of chemical aggressivity in contaminated soils with a low pH and high sulphate concentrations. Plastic piped services and concrete foundations can be adversely affected by the presence of hydrocarbons, including phenolic compounds, where the integrity of the pipes can be compromised. This can lead to penetration of the pipes by mobile contaminants. |

| | |
|---|---|
| Flora & Fauna | On-site and off-site flora and fauna may be affected by the presence of elevated concentrations of certain determinands. |
| Construction Workers | Exposures experienced by construction workers are much less than for future site users due to the limited period of exposure. However, construction workers are more likely to encounter potential contaminants during the construction works. |

## 9.6 Potential pathways

9.6.1 Table 9.4 provides a summary of the potential pathways by which the identified sources may come into contact with receptors.

**Table 9.4: Potential pathways**

| Potential Pathway | | Description |
|---|---|---|
| **Soil Source Pathways**<br><br>Including the following sources:<br>• Made Ground<br>• Soil derived leachate | Dermal Contact | Dermal contact with contaminated soils, soil derived dust and soil leachate. |
| | Direct Contact | Direct contact of building materials with contaminated soils and soil derived leachate. |
| | Ingestion | Direct or indirect ingestion of soil and soil derived dust. |
| | Inhalation | Inhalation of soil derived dust, organic vapours, or ground generated gas. |
| | Plant Uptake | Uptake of contaminants via the roots. |
| **Groundwater Source Pathways**<br><br>Including the following sources:<br>• Soil leachate<br>• Perched groundwater<br>• Deep groundwater | Rainfall Infiltration & Vertical / Lateral migration via permeable strata and service conduits | Rainfall infiltration can generate and mobilise soil derived leachate which could impact on surface water following lateral migration and groundwater. Perched groundwater (if present) may also migrate vertically to groundwater in other, deeper aquifers. |
| | Lateral Migration through Aquifer | As well as being a receptor, aquifers allow lateral migration of contaminants through the permeable strata. |
| **Surface Water Pathways**<br><br>Includes the following sources:<br>• Made Ground | Surface Run-off | Entrainment of sediment in surface run off into drainage ditches on site which discharge to the Humber Estuary. |
| | Surface Water Drainage | Surface spills could migrate via surface run off to drainage which is discharged into the Humber estuary. |
| **Gas Pathways**<br><br>Including the following sources:<br>• Ground gas | Vertical / Lateral Migration via permeable strata | Permeable strata, service trenches, historical landfills and areas of Made Ground may allow transportation of ground gases. |

# 10. Environmental risk assessment

## 10.1 Risk assessment principles and framework

10.1.1 Current best practice recommends that the determination of hazards due to contaminated land is based on the principle of risk assessment, as outlined in the Environment Agency guidance on Land Contamination Risk Management (LCRM), April 2021 (Environment Agency, 2021).

10.1.2 For a risk to be present, there must be a viable contaminant linkage; i.e., a mechanism whereby a source impacts on a sensitive receptor via a pathway. The potential contaminant linkages that have been identified for this site are presented in Section 8.

10.1.3 Assessments of risks associated with each of these contaminant linkages, following review of available information for the site is discussed in the following sections.

10.1.4 Using criteria broadly based on those presented in the Construction Industry Research and Information Association publication Research & Development (R&D) Publication 66, National House Building Council (NHBC)/Environment Agency/Chartered Institute of Environmental Health (CIEH) 2008 (NHBC, Environment Agency and CIEH, 2008), the magnitude of the risk associated with potential contamination at the site has been assessed. To do this an estimate is made of:

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

10.1.5 The severity of the risk is classified according to the criteria in Table 10.1.

**Table 10.1: Severity of risk**

| Severity | Description |
|---|---|
| High | • Acute risks to human health likely to result in “significant harm” (e.g., very high concentrations of contaminants/ground gases);<br>• Catastrophic damage to buildings/property (e.g., by explosion, sites with high gassing potential, extensive VOC contamination);<br>• Major pollution of controlled waters (e.g., surface watercourses or principal aquifers/source protection zones); and<br>• Short term risk to a particular ecosystem. |
| Medium | • Chronic (long-term) risk to human health likely to result in “significant harm” (e.g., elevated concentration of contaminants/ground gases);<br>• Pollution of sensitive controlled waters (e.g., surface watercourses or principal/secondary A aquifers); and<br>• Significant effects on sensitive ecosystems or species. |
| Mild | • Pollution of non-sensitive waters (e.g., smaller surface watercourses or secondary B aquifers or unproductive strata); and<br>• Significant damage to crops, buildings, structures, or services (e.g., by explosion, sites with medium gassing potential, elevated concentrations of contaminants). |
| Minor | • Non-permanent human health effects (requirement for protective equipment during site works to mitigate health effects);<br>• Damage to non-sensitive ecosystems or species; and<br>• Minor (easily repairable) damage to buildings, structures, or services (e.g., by explosion, sites with low gassing potential). |

10.1.6 The probability of the risk occurring is classified according to the criteria given in Table 10.2.

**Table 10.2: Probability of risk occurring**

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

10.1.7 An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 10.3.

**Table 10.3: Level of risk**

| | | Severity | | | |
|---|---|---|---|---|---|
| | | Severe | Medium | Mild | Minor |
| Probability | High Likelihood | Very High | High | Moderate | Moderate / Low |
| | Likely | High | Moderate | Moderate / Low | Low |
| | Low Likelihood | Moderate | Moderate / Low | Low | Very Low |
| | Unlikely | Moderate / Low | Low | Very Low | Very low |

## 10.2 LCRM assessment of risk

10.2.1 In October 2020 (updated April 2021), the UK government issued new guidance on the evaluation and management of contaminated land; LCRM (Environment Agency, 2021). Current contaminated land guidance LCRM (Environment Agency, 2021) categorises risk at Stage 1 Tier 1 as follows:

- Minimal or negligible;
- Tolerable or acceptable; and
- Unacceptable.

10.2.2 However, no framework for assessing the risk has been published to accompany the guidance, so the CIEH & NHBC R&D Publication 66 assessment framework (NHBC, Environment Agency and CIEH, 2008) constitutes best practice in this regard. To align the risk rankings in Section 9.1 with the LCRM rankings and with the Part 2A definitions [19], the following matrix has been utilised. This conversion is presented in Table 10.4.

**Table 10.4: Conversion of LCRM risk categories**

| R&D66 Level of Risk | Minimal/Negligible | Tolerable | Unacceptable |
|---|---|---|---|
| Very Low | | | |
| Low | | | |
| Moderate/Low | | | |
| Moderate* | | | |
| High | | | |
| Very High | | | |

*This risk category spans both acceptable and unacceptable. This is intentional as it is this risk band that tends to have the greatest level of uncertainty associated with it. Acceptability will be dependent on site-specific circumstances and level of confidence in the available evidence.*

*For a risk to be unacceptable, the contaminant linkage should be associated with at least a "medium" severity as defined in Table A4.3 in Annex 4 of R&D66 (NHBC, Environment Agency and CIEH, 2008)[j] and the probability should (in the majority of cases) be at least "likely" as defined in Table A4.4 of R&D66 (NHBC, Environment Agency and CIEH, 2008)).*

10.2.3 These risk categories represent the level of risk as it is currently understood from the information available at this time.

## 10.3 Initial risk assessment

10.3.1 An evaluation of the potential risks associated with the identified sources at the location of the IERRT project to the various receptors is discussed and presented in Table 10.5 and Section 10.4. The level of risk is determined based on the current condition of the site, i.e., the effects of mitigation measures such as soil or groundwater treatment are not included but the level of risk takes into account the nature of the IERRT project.

10.3.2 The evaluation includes an assessment of the significance of the potential contaminant linkages. Where it is considered that a particular contaminant linkage is not plausible in the context of the site and the IERRT project, the overall risk is determined as being *Low*.

## Table 10.5: Risk evaluation of potential contaminant linkages

| Source | Pathway | Receptor | | Potential Contaminant Linkage | Risk Evaluation | | | Potential Risk LC:RM |
|---|---|---|---|---|---|---|---|---|
| | | | | | Severity | Probability | Risk | |
| Contaminants of potential concern within soil in Made Ground and natural strata | Direct Contact / Ingestion / Inhalation of vapours & dust | On-Site Human Health | Future Site Visitors (users of the Ro-Ro facility) | Y | Mild | Low likelihood | Low | Minimal / Negligible |
| | | | On-site Workers (Within future constructed buildings) | Y | Medium | Low likelihood | Moderate / Low | Tolerable |
| | | | On-site workers (Outdoors) | Y | Mild | Low likelihood | Low | Minimal / Negligible |
| | | | Construction / Maintenance Workers | Y | Mild | Likely | Moderate / Low | Minimal / Negligible |
| | Inhalation of Vapours / Dusts | Off-Site Human Health | Workers in the commercial/ industrial buildings located adjacent to the west site boundary | Y | Minor | Low likelihood | Very Low | Minimal / Negligible |
| | Surface run-off / Migration via site drainage | Controlled Waters | Surface Water: (Humber Estuary/ Drains on site) | Y | Medium | Likely | Moderate | Tolerable |
| | Infiltration / Vertical Migration | | Groundwater: (Superficial Secondary Undifferentiated (Beach and Tidal Flat Deposits and Glacial Till)) | Y | Mild | Low likelihood | Low | Minimal / Negligible |
| | | | Groundwater: (Principal bedrock aquifers (Flamborough Chalk Formation and Burnham Chalk Formation) | Y | Medium | Unlikely | Low | Minimal / Negligible |
| | Direct Contact | Development Infrastructure | Buildings to be constructed on site and associated foundations and infrastructure | Y | Mild | Likely | Moderate / Low | Tolerable |
| | Direct Contact / Uptake | Flora & Fauna | On site flora and fauna | Y | Minor | Likely | Low | Minimal / Negligible |
| Leachate and Groundwater contaminants from Made Ground and Natural Strata | Direct Contact / Ingestion / Inhalation of vapours | On-Site Human Health | Future Site Users / Visitors | Y | Mild | Low likelihood | Low | Minimal / Negligible |
| | | | On-site Workers (Within future constructed buildings) | Y | Medium | Low likelihood | Moderate / Low | Tolerable |
| | | | On-site workers (Outdoors) | Y | Minor | Low likelihood | Low | Minimal / Negligible |
| | | | Construction / Maintenance Workers | Y | Mild | Likely | Moderate / Low | Tolerable |
| | Lateral Migration | Controlled Waters | Surface Water: (Humber Estuary/ Drains on site) | Y | Medium | Likely | Moderate | Tolerable |
| | Preferential migration Through Surface Water Drainage | | | Y | Medium | Likely | Moderate | Tolerable |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Vertical Migration | | Groundwater: (Superficial Secondary Undifferentiated (Beach and Tidal Flat Deposits and Glacial Till)) | Y | Mild | Likely | Moderate / Low | Minimal / Negligible |
| | | | Groundwater: (Principal bedrock aquifers (Flamborough Chalk Formation and Burnham Chalk Formation) | Y | Medium | Low Likelihood | Moderate / Low | Tolerable |
| | Direct Contact | Development Infrastructure | Buildings to be constructed on site and associated foundations and infrastructure | Y | Mild | Likely | Moderate / Low | Tolerable |
| | Infiltration / Off-site Migration | Off-Site Human Health | Workers in the commercial/ industrial buildings located adjacent to the west site boundary | Y | Mild | Unlikely | Very Low | Minimal / Negligible |
| | Direct Contact / Uptake | Flora & Fauna | Any on site flora and fauna | Y | Minor | High likelihood | Low | Minimal / Negligible |
| Ground Gas potentially produced by Made Ground, historical landfills, and naturally from organic content within the underlying deposits | Inhalation | On-Site Human Health | Future Site Visitors (users of the Ro-Ro facility) | Y | Minor | Low likelihood | Very Low | Minimal / Negligible |
| | | | On-site workers (Outdoors) | Y | Minor | Low likelihood | Very Low | Minimal / Negligible |
| | Inhalation / Migration & Explosion | | On-site Workers (Within future constructed buildings) | Y | Medium | Likely | Moderate | Tolerable |
| | | | Construction / Maintenance Workers | Y | Medium | Likely | Moderate | Tolerable |
| | Migration & Explosion | Development Infrastructure | Buildings to be constructed on site and associated foundations and infrastructure | Y | Mild | Low Likelihood | Low | Minimal / Negligible |
| | Inhalation / Migration & Explosion | Off-Site Human Health | Off-site Receptors: Workers in the commercial/ industrial buildings located adjacent to the west site boundary | Y | Minor | Low likelihood | Very Low | Minimal / Negligible |

## 10.4 Discussion of risk to receptors

### 10.4.1 Risk to future site visitors

10.4.1 The risk to future site visitors is considered *Very Low* to *Low* for the three potential contaminant linkages identified in Table 10.5. These risks are considered as *Minimal/Negligible* using the LC:RM risk rating.

10.4.2 Future site users are unlikely to come into direct contact with the underlying soils as the majority of the site is currently covered in hardstanding and the future landside development will require a significant amount of hardstanding.

10.4.3 There is the potential for ground gas to be sourced from the Made Ground materials around the site. Pathways for gas migration may be present as the Made Ground is likely to comprise a variety of cohesive and granular materials, which will have a variety of permeabilities. The site is also underlain by organic rich soils which may be a source of ground gas.

10.4.4 Based on current layout plans (see Drawing B2429400-JAC-00-ZZ-DR-ZZ-0205), the passenger welfare facilities are to be located in the southeast corner of Sub Plot 3. This is located within 40m of the historical landfill listed in Table 8.1 (Ref: 55/00/0062, 2000), reported to contain inert and industrial waste. Due to the nature of the waste recorded within this landfill there is a low likelihood for ground gas generation. However, the presence of the landfill may still present a preferential pathway for ground gas and groundwater migration.

10.4.5 As the site will be used to service the embarkation and disembarkation of Ro-Ro cargo, possibly with provision for a small element of passenger use during quiet periods, most future site users will be transient in nature and, therefore, experience limited periods of exposure.

### 10.4.2 Risk to on-site workers (within future buildings)

10.4.6 The risk to on-site workers within the future constructed buildings is considered *Moderate/Low* for the three potential contaminant linkages identified in Table 10.5. These risks are considered as *Tolerable* using the LC:RM risk rating.

10.4.7 This is due to increased exposure time a regular onsite worker would have to potential volatile contaminants compared to a transient site user or construction worker.

10.4.8 There are a few buildings proposed to be built at the site including welfare buildings for workers and passengers, and an office building. A workshop and gatehouse may also be required. Based on current layout plans (see Drawing B2429400-JAC-00-ZZ-DR-ZZ-0205) there are terminal buildings proposed to be built in Sub Plot 3. This area borders land that has been identified to have had chemical works and oil storage as former and current land use (see Table 6.1) and a contaminant linkage via vapour inhalation may be present (see Table 9.2).

10.4.9 The risk from ground gas is considered Low for reasons outlined within Section 10.4.1.

### 10.4.3 Risk to on-site workers (outdoors)

10.4.10 The risk to on-site workers working outdoors is considered *Very Low* to *Low* for the three potential contaminant linkages identified in Table 10.5. These risks are considered as *Minimal/Negligible* using the LC:RM risk rating.

10.4.11 The risk to these workers is similar to the on-site workers described in Section 10.4.2. However, as these workers operate within open spaces the likelihood of the contaminant linkages of vapour inhalation and gas migration and explosion are reduced.

### 10.4.4 Risk to offsite human health receptors

10.4.12 The closest potential offsite human health receptors are the workers within the commercial / industrial buildings located immediately west of the site.

10.4.13 The risk to offsite receptors from direct contact, ingestion, or inhalation of potential contaminants in Made Ground, natural soils, groundwater, and leachate at the site is considered to be *Very Low*.

10.4.14 Any risks to local off-site receptors would be associated with off-site migration of contamination, for instance, in the form of wind-blown dust and organic vapours. Exposure via inhalation of dust is considered to be negligible for off-site receptors following development works, and as such there is not considered to be plausible contaminant linkage. The greatest potential for generation will be during the construction phase. Dust generation should be kept to a minimum in accordance with general best practice, as outlined in, for example, “Environmental Good Practice on Site”, 3rd Edition, CIRIA Publication C692 (Law and D’Aleo, 2016). Overall, the risks to off-site receptors from on-site soil derived dusts are considered to be *Very Low*, which is *Minimal/Negligible* under the LC:RM risk rating.

10.4.15 The level of risk considered for exposure of offsite receptors to ground gas is considered to be *Very Low* as it is considered unlikely that the IERRT project at the site will change the existing ground conditions and not cause ground gas migration to these receptors.

10.4.16 Overall, the LC:RM risk rating to offsite receptors is considered to be *Minimal/Negligible*.

### 10.4.5 Risk to controlled waters: surface water

10.4.17 The risk from potential contaminants in Made Ground, natural soils, groundwater, and leachate at the site to surface waters is considered to be *Moderate/Low* to *Moderate.* Overall, the LC:RM risk rating to surface waters is considered to be *Tolerable*.

10.4.18 The majority of the site will be covered by hardstanding; however, some areas of soft ground exist which may allow infiltration of rainwater and thus the generation of soil leachate. Various potential pathways exist to surface water drains and the Humber Estuary, including surface water (overland) run-off, run-off into surface water drains and then discharge into the Humber Estuary and lateral migration of shallow or perched groundwater.

### 10.4.6 Risk to controlled waters: groundwater

10.4.19 The risk from potential contaminants in Made Ground, natural soils, groundwater, and leachate at the site to groundwater is considered to be *Low* to *Moderate/Low*. Overall, the LC:RM risk rating to groundwater is considered to be *Minimal/Negligible* to *Tolerable*.

10.4.20 The majority of the site is underlain by a superficial Unproductive Aquifers (Tidal Flat Deposits and Glacial Till). A superficial Secondary Undifferentiated aquifer (Beach and Tidal Flat Deposits) are located along the bank of the Humber Estuary. Due to the Aquifer classifications, the severity of impact to them is considered mild. As the majority of the site is currently (and in the future development) covered in hardstanding, the likelihood of a contaminant linkage via vertical migration is lessened. However, there is the potential for future construction involving piling to create preferential pathways for migration of impacted groundwater into the Principal Aquifer. The potential risks associated with piling would be considered within a piling risk assessment with the appropriate mitigation implemented.

10.4.21 The site is underlain by a Principal Aquifer at depth. The aquifer classification in addition to the presence of SPZ 1, SPZ 2 and SPZ 3 on-site (associated with the groundwater abstraction point 63m southeast of the site) would result in a medium to high severity of impact. However, the presence of approximately 17m of low permeability clay deposits (Tidal Flat Deposits and Glacial Till) across the site is likely to restrict vertical migration of impacted groundwater, if present, reducing the likelihood and risk rating.

### 10.4.7 Risk to development infrastructure

10.4.22 The risk to development infrastructure for the three potential contaminant linkages identified in Table 10.5 are *Low* to *Moderate/Low*. These are risks are considered as *Minimal/Negligible* to *Tolerable* using the LC:RM risk rating.

10.4.23 It is assumed that potential risks would be mitigated by using concrete and service pipes appropriate for any aggressive ground conditions identified at the site.

10.4.24 The gassing potential of the site will be assessed within a ground investigation prior to construction. It is anticipated that appropriate gas protection measures, where ground gas monitoring results indicate that protection is necessary, will be sufficient to mitigate the potential risk from ground gas.

### 10.4.8 Risk to construction workers

10.4.25 The risk to construction workers from direct contact, ingestion, or inhalation of potential contaminants in Made Ground, natural soils, groundwater, and leachate at the site is considered to be *Moderate/Low* to *Moderate*.

10.4.26 This assessment was made with the consideration that whilst construction workers might be expected to come into contact with soils, a site-specific risk assessment and the use of personal protective equipment will be a pre-requisite to them being on site. Therefore, construction workers should be protected from any potential contaminants. It is also considered that if construction workers did come into contact with a potential contaminant(s) at the site, they would experience limited periods of exposure. Taking the above into account, the risk of exposure from contaminated soils, leachate and groundwater to construction workers is considered *Tolerable* using the LC:RM risk rating.

10.4.27 There is potential for ground gas generation at the site due to the Made Ground present, organic content within the underlying deposits and the underlying Chalk deposits. The severity of ground gas risk at the site to construction / maintenance workers is considered Medium and the probability is considered *Likely*. Therefore, the risk to construction workers from inhalation of ground gas and risk of explosion due to the build-up of ground gas in enclosed spaces is considered to be *Tolerable*.

10.4.28 However, it is recommended that entry into excavations or any other enclosed space on a construction site should comply with confined space legislation and be assessed prior to entry.

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

### 10.4.9 Risk to flora and fauna

10.4.30 The risks to flora and fauna on the site have been classified as *low*. The majority of the site is likely to be covered in hardstanding in future which will remove the pathway to on-site flora. The land associated with Long Strip Woodland is heavily vegetated, however, there are no environmental designations for this area of the site. The Humber Estuary is designated as an ecologically sensitive site, however, potentially adverse effects that are identified through investigation will be able to be mitigated through a site-specific Environmental Management Plan.

# 11. Preliminary geotechnical appraisal

## 11.1 Geotechnical risk assessment

11.1.1 A number of geotechnical hazards have been identified for the site. In order to quantify the risks associated with the proposed works, a preliminary geotechnical risk assessment has been conducted. To do this, an estimate is made of:

- The potential severity of the risk (consequence); and
- The likelihood of the risk occurring.

11.1.2 The likelihood and consequence of the risk are classified according to the criteria in Table 11.1.

**Table 11.1: Scoring rational describing likelihood and consequences of geohazards**

| Likelihood | | Consequence | |
|---|---|---|---|
| 1 Improbable | Extremely unlikely to occur in relevant period | 1 Insignificant | Unlikely to have impact on works. |
| 2 Remote | Unlikely to occur in relevant period | 2 Marginal | Minor first aid incident or requiring routine maintenance repair. |
| 3 Occasional | Likely to occur in relevant period | 3 Serious | Lost time, injury, or illness; minor damage to property/ infrastructure or significant environmental effect. |
| 4 Probable | Likely to occur several times in relevant period | 4 Critical | Major injury, major damage to property/infrastructure, or major environmental effect. |
| 5 Frequent | Likely regular occurrence in relevant period | 5 Catastrophic | Death or major loss; total systems failure |

11.1.3 An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 11.2.

**Table 11.2: Geohazard index ranges**

| Index = Likelihood x Consequence (See also CIRIA SP125) | | |
|---|---|---|
| 16-25 | Very High Risk | Unacceptable. Re-examine activities to provide lower risk. |
| 9-15 | High risk | Further mitigation measures required and/or alter method of work. Seek approval from all stakeholders if risk cannot be reduced. |
| 6-8 | Medium Risk | Tolerable only if further mitigation is not reasonably practical and there is need to continue activity with identified controls. |
| 1-5 | Low Risk | Broadly acceptable if all reasonably practicable control measures in place. |

11.1.4 A geotechnical risk register for the proposed works at Immingham Eastern Ro-Ro Terminal has been developed; identifying the risks associated with the current condition of the site and typical construction risks relating to the proposed improvement options. The geotechnical risk register is a live document and will need to be updated as risks are identified in subsequent stages of the scheme.

11.1.5 The geotechnical risks associated with the proposed works are summarised in Table 11.3:

## Table 11.3: Summary of risks

| Risk Number | Hazard | Risk | Risk before Mitigation | | | Mitigation | Risk after Mitigation | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | C | I | | L | C | I |
| GEO 001 | Unidentified services | Delays or changes to proposed works. Injury or death of site operatives.<br>Damage as a result of works which results in commercial compensation and delays.<br>Increased cost and delay to divert or lower services. | 3 | 5 | 15 | Obtain up to date service plans and records.<br>Service providers contacted before mobilisation and known services marked out.<br>Site to be scanned using Cable Avoidance Tool (CAT) and Ground Penetrating Radar (GPR) before ground works, and hand dug investigation where necessary.<br>Design proposed scheme to minimise impact on existing services.<br>Continued vigilance during work. | 1 | 5 | 5 |
| GEO 002 | Slope instability along field embankments, ditches, and cuttings | Propagation of slope failure into third party land, resulting in cost to client for compensation for damages.<br>Slope failure of railway embankment. | 2 | 5 | 10 | Avoid works undercutting slopes.<br>Where unavoidable, use temporary stabilising structures and provide continuous slope monitoring for signs of instability.<br>Suitable ground investigation and geotechnical analysis prior to works.<br>Earth retaining structures to be considered as necessary. | 1 | 5 | 5 |
| GEO 003 | Unexploded ordnance | Potential UXO related to historical military activity.<br>Injury or death of site operatives.<br>Delays to works. | 3 | 5 | 15 | Review of specialist UXO desk study obtained to further clarify the risk at the site and specify appropriate mitigation for ground investigation and construction.<br>Continued vigilance during and excavation works.<br>Use of CAT and GPR scanning. | 1 | 5 | 5 |
| GEO 004 | Made Ground, Beach Deposits, Tidal Flat Deposits and Peat | Any existing artificial and superficial deposit in its current state is unlikely to provide a suitable founding stratum for structural foundations and potentially unsuitable for pavement.<br>Made Ground is anticipated across the site due to its historical and current industrial land use. | 3 | 3 | 9 | The extent of and potentially highly variable thickness of existing weak and compressible materials or soils, should be assessed during a ground investigation and foundations should be placed on a suitable bearing stratum below any weak and compressible soil.<br>It may require excavation and replacement, or treatment for new hardstanding areas.<br>Deep foundations may be required. | 1 | 3 | 3 |

| Risk Number | Hazard | Risk | Risk before Mitigation | | | Mitigation | Risk after Mitigation | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | C | I | | L | C | I |
| GEO 005 | Hard rock / boulders / buried structures | Delays or changes to proposed works / scheme.<br>Piling obstruction.<br>Scheme design alterations to avoid underground structures. | 3 | 3 | 9 | Suitable ground investigation.<br>Live assessment of ground excavatability. Provision for a pneumatic breaker /suitable plant on site during excavation.<br>Obtain drawings and information related to current and previous structures for consideration in permanent and temporary works design.<br>Design proposed scheme to minimise impact from existing obstructions and/or break out and remove. | 1 | 3 | 3 |
| GEO 006 | Unforeseen ground conditions | Inadequate or uneconomic design.<br>Delays or changes to proposed temporary & permanent works.<br>Failure of works.<br>Excessive cost of works. | 3 | 4 | 12 | Suitable ground investigation.<br>Inspection of ground and material during construction to ensure conditions are the same or better than expected.<br>Redesign of temporary and permanent works where necessary. | 1 | 3 | 3 |
| GEO 007 | Differential Settlement of weak compressible soils (Made Ground, clay, and peat) | Differential settlement leading to damage to buildings and/or foundations. | 2 | 3 | 6 | Ground investigation to identify underlying ground conditions and design appropriate foundation solutions. | 1 | 3 | 3 |
| GEO 008 | Groundwater Flooding due to shallow groundwater | Additional costs and delays to site works.<br>Flooding of excavations during construction or ground investigation.<br>Flooding of unprotected basements. | 3 | 3 | 9 | An investigation into the groundwater levels including tidal and seasonal variation is recommended prior to commencement of any detailed earthworks or foundation design.<br>Appropriate dewatering equipment on site.<br>Consideration in permanent and temporary works design. | 1 | 3 | 3 |
| GEO 009 | Groundwater Flooding due to blow wells from Chalk Artesian Aquifers | Additional costs and delays to site works.<br>Flooding of excavations during construction or ground investigation.<br>Flooding of unprotected basements. | 3 | 3 | 9 | Suitable ground investigation.<br>An investigation into the groundwater levels including tidal and seasonal variation is recommended prior to commencement of any detailed earthworks or foundation design.<br>Appropriate dewatering equipment on site. | 1 | 3 | 3 |

| Risk Number | Hazard | Risk | Risk before Mitigation | | | Mitigation | Risk after Mitigation | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | L | C | I | | L | C | I |
| | | | | | | Consideration in permanent and temporary works design. | | | |
| GEO 010 | Shrink and Swell associated with tree removal | Increase or decrease in soil water pressure caused by removal or presence of trees causes change in soil volume.<br>This could lead to differential settlement or subsidence of shallow foundations and pavement construction. | 2 | 3 | 6 | Consideration of retention of trees and impact on shallow foundations or the reverse.<br>Consider deeper foundations to impact mitigation.<br>Root confining planters may be prudent near areas of new landscaping and pavement construction.<br>Where trees are to be removed, retained, or planted as part of the IERRT project, assessment should be undertaken to determine the risk they may cause via shrink/heave of soils as a result of their presence/absence. This should be informed by intrusive ground investigation to determine the characteristics of the site soils and how susceptible they are to changes in pore water pressure. | 1 | 3 | 3 |
| GEO 011 | Acid or sulphate bearing soil & groundwater. | Chemical attack on buried concrete, steel or geosynthetic. | 2 | 3 | 6 | Geochemical laboratory testing on samples taken during ground investigation and analysis of results.<br>Suitable specification of permanent works undertaken. | 1 | 3 | 3 |

## 11.2 Preliminary engineering assessment

### 11.2.1 Foundations

11.2.1 Subject to detailed design, for lightly loaded structures with no concern for excessive total and differential settlement, the underlying superficial deposits may be suitable for the use of traditional spread foundations founded within the formation. However, this is subject to assessment of ground conditions following a ground investigation as superficial materials are described as soft in the historical boreholes. Bearing resistance of the chosen foundation stratum of the proposed structures will need to be considered for suitability of any spread foundations. Foundation design will consider both total and differential settlement. Shallow foundations will also consider the shrinking and swelling potential of the strata present.

11.2.2 Areas of deeper Made Ground/artificial ground are known to be present as Warp is noted to extend to 7-10m bgl and will require further detailed investigation. In particular, the suitability of soft superficial deposits and Peat will be considered, which are potentially located at founding level. In general, foundations should be located within natural ground beneath any fill, Made Ground, soft highly compressible soil, and below the depth of effect of variations due to vegetation, seasonal and climatic change. Remedial measures in these areas may be required.

11.2.3 Similarly, footings should be taken deeper than the minimum depth specified, where structures are located within influencing distance of any existing or future trees. In these circumstances reference should be made to Chapter 4.2 of NHBC's Standards (2011).

11.2.4 The construction of both bored and driven piles would be technically feasible at this site. However, the suitability of driven piles should be considered from an environmental/nuisance issue. Piles may encounter a variety of obstructions including boulders within the Glacial Till, obstructions from existing or historical underground structures and foundations, variable rock head level and variable properties of rock. All of these potential features should be taken into consideration.

11.2.5 If contamination is identified on the site, a piling risk assessment should be carried out during the detailed design stage in accordance with the Environment Agency Guidance, "Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention" (Wescott, Lean and Cunningham, 2001) and "Piling in Layered Ground: risks to groundwater and archaeology – Since Report SC0200074/SR" (Hird and Davies, 2006).

### 11.2.2 Ground floor slabs

11.2.6 Ground bearing floor slabs are thought to be suitable but are dependent on the thickness and consistency of the Made Ground, the floor loading, and the required performance criteria in relation to total and differential settlement. The potential use of ground bearing floor slabs should be determined following the ground investigation.

### 11.2.3 Excavations

11.2.7 Where excavations for foundations, earthworks, and drainage are required, stability of excavated areas should be considered. Close or continuous support will be required for any manned entry to excavations.

11.2.8 Due to the groundwater regime being unknown, shallow groundwater is likely to be encountered and may require groundwater control during excavation. Groundwater may also be subject to tidal influence. Detailed information regarding the groundwater regime will be available following the ground investigation and subsequent monitoring.

### 11.2.4 Soakaways

11.2.9 The ground conditions may be unsuitable for the use of pit soakaways due to the general presence of cohesive, low permeability strata with limited infiltration. The available historic

ground investigation indicates that suitable granular deposits are unlikely to be located at the surface. Intrusive ground investigation should include for permeability testing to determine the suitability of the ground for infiltration-based drainage solutions and SUDS if required in the IERRT project. If unsuitable, surface water run-off should be directed to the main drainage subject to appropriate consent to discharge.

# 12. Conclusions

12.1.1 From the historical OS maps, the site and surrounding area has had significant industrial use. Satellite mapping observations made during the site walkover indicate that Made Ground is likely to be present across the site. This is anticipated to be underlain by Tidal Flat Deposits and Chalk deposits.

## 12.1 Environmental

12.1.2 It is considered, based on the information obtained, that geo-environmental risks range between *Very Low* and *Moderate*. The potential risks according to the LC:RM guidance range between *Minimal/Negligible* and *Tolerable*. Potential sources of contamination relating to both onsite, off-site, historical, and current land uses have been identified and potential linkages to human health (on-site and off-site commercial/industrial workers) and surface waters (unnamed drains and Humber Estuary) may be present.

12.1.3 However, the underlying superficial deposits are classified as Unproductive or Secondary Undifferentiated Aquifers from which there are no potable water abstractions within 1km of the site. In addition, although the chalk bedrock at depth is classified as a Principal Aquifer and there is a Source Protection Zone I associated with a potable water abstraction 63m southeast of the site, it is afforded protection from approximately 17m of low permeability Tidal Flat Deposits and Glacial Till.

12.1.4 The Made Ground, natural deposits and historical landfills may also be a potential source of ground gas at the site.

12.1.5 The Detailed UXO threat Assessment Desk Top Study (SafeLane, 2021) was commissioned provided the site with a *Medium* risk classification. Recommended minimum mitigation measures have been proposed within the UXO report to support the proposed groundworks at the site and have been summarised in Section 8.1.1. The Zetica UXO report indicates there is a *Low* risk of UXO at the site (Zetica UXO, 2022b).

## 12.2 Geotechnical

12.2.1 Key geotechnical findings as part of this desk study include:

- Made Ground and Artificial Ground is anticipated across the entire site, previously recorded to 7 – 10m bgl. There are also some small areas of infilled ground indicated on mapping at the southern end of the site. This is congruent with the development history of the site.
- Superficial deposits are reported to cover the site and likely comprise Beach and Tidal Flat Deposits, which are underlain by glacial deposits.
- The bedrock anticipated to underlie the majority of the site is the Flamborough Chalk Formation, apart from the northwest arm of the site which is the Burnham Chalk Formation.

12.2.2 The key geotechnical hazards identified include:

- There is a risk of slope instability along ditches and cuttings.
- The site is potentially underlain by significant depths of soft/compressible cohesive deposits, which pose a risk of total or differential settlement of foundations.
- Numerous utilities are present across the site, therefore striking underground services during ground investigation or construction is of concern.
- Any existing Made Ground in its current state is unlikely to provide a suitable founding stratum for structural foundations and potentially unsuitable for pavement.
- The groundwater level is likely shallow and under tidal influence. This may affect temporary and permanent works.

12.2.3 The potential geotechnical risks that have been identified have been assessed by the preliminary risk assessment as being very low to medium, with the majority being low risk following appropriate mitigation.

# 13. Recommendations

13.1.1 At this stage, and subject to supporting information required for the engineering design, it is recommended that ground investigation works are undertaken at the IERRT site for the purposes of detailed design. Such ground investigation would assist in confirming the presence of geo-environmental and/or geotechnical constraints that may require mitigation to inform the detailed design and subsequent construction of the IERRT project.

13.1.2 A ground investigation was undertaken in May 2022. The ground investigation comprised of seven trial pits between 1.8m bgl and 3.3m bgl within Made Ground and reworked natural deposits. Soil samples were obtained for chemical laboratory analysis. At the time of writing a confirmatory GI is being undertaken. The findings will be detailed in an interpretative report.

13.1.3 Prior to such ground investigations, service providers should be contacted before mobilisation and known services marked out. The site should also be scanned using CAT and GPR before ground works, and hand dug investigation where necessary. In addition to this, drawings, and information related to current and previous structures should be obtained.

13.1.4 The objectives of the ground investigations should include the following:

- Confirmation of ground and groundwater conditions, which includes confirmation of rockhead depth and soil and rock strength parameters;
- Provision of data to assess geotechnical design parameters including deformation parameters for settlement analysis, strength parameters for stability and bearing capacity calculations and permeability data for seepage analysis;
- Further consideration of contamination levels within Made Ground and superficial deposits;
- To conform with Eurocode 7 investigation requirements for structure design; and
- Assist with the identification of geotechnical and / or geo-environmental constraints.

13.1.5 As the site has classified as medium risk for UXO recommended minimum mitigation measures have been proposed to support the proposed groundworks at the site. These measures include:

<u>Landside Works and Marine Works</u>

- UXO Safety & Awareness Briefing (Toolbox Brief, TBB); and
- Site Specific Safety Instructions (SSSIs) Training Course.

<u>Landside Works</u>

- NI Magnetometer Survey (Greenfield areas only);
- Target Investigation (Required as a follow-on from NI magnetometer survey);
- Search & Clear;
- EOD Engineer Watching Brief (for brownfield areas unsuitable for NI magnetometer survey); and
- Intrusive Magnetometer Survey of pile/borehole positions.

<u>Marine Works</u>

- Non-Intrusive Magnetometer UXO Survey;
- Non-Intrusive 3D Seismic Investigation from the 2m contour; and
- Seismic Investigation: Further Non-Intrusive Survey over exact locations to identify and mitigate risk and geological assessment for further risk management.

13.1.6 Following the confirmatory GI, an interpretative report comprising human health, controlled waters, and ground gas risk assessments, as necessary, will be prepared to confirm the risks associated with the presence of contamination encountered at the site, mitigation measures where required and make recommendations to support the detailed design of the proposal. This report would also review the geotechnical conditions based on the confirmatory ground investigation results and provide outline guidance on the need for ground improvement and advice on foundation options, typical allowable bearing pressures and potential settlement ranges for the ground conditions.

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# Drawings




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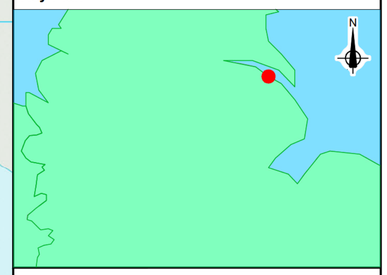
## Key Plan




## General Notes

1. This plan should be read alongside other plans and documents in the development consent order application.
2. All dimensions are in metres unless noted otherwise.

## Key

Order limits

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SCALE 1:10000 (A1)
SCALE 1:20000 (A3)
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| P02 | February 2023 | Submission Version | TH | RH | RH | CN |
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| | | |
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| Scale | 1:10000 @ A1 | |
| Jacobs No. | B2429400 | Rev P02 |
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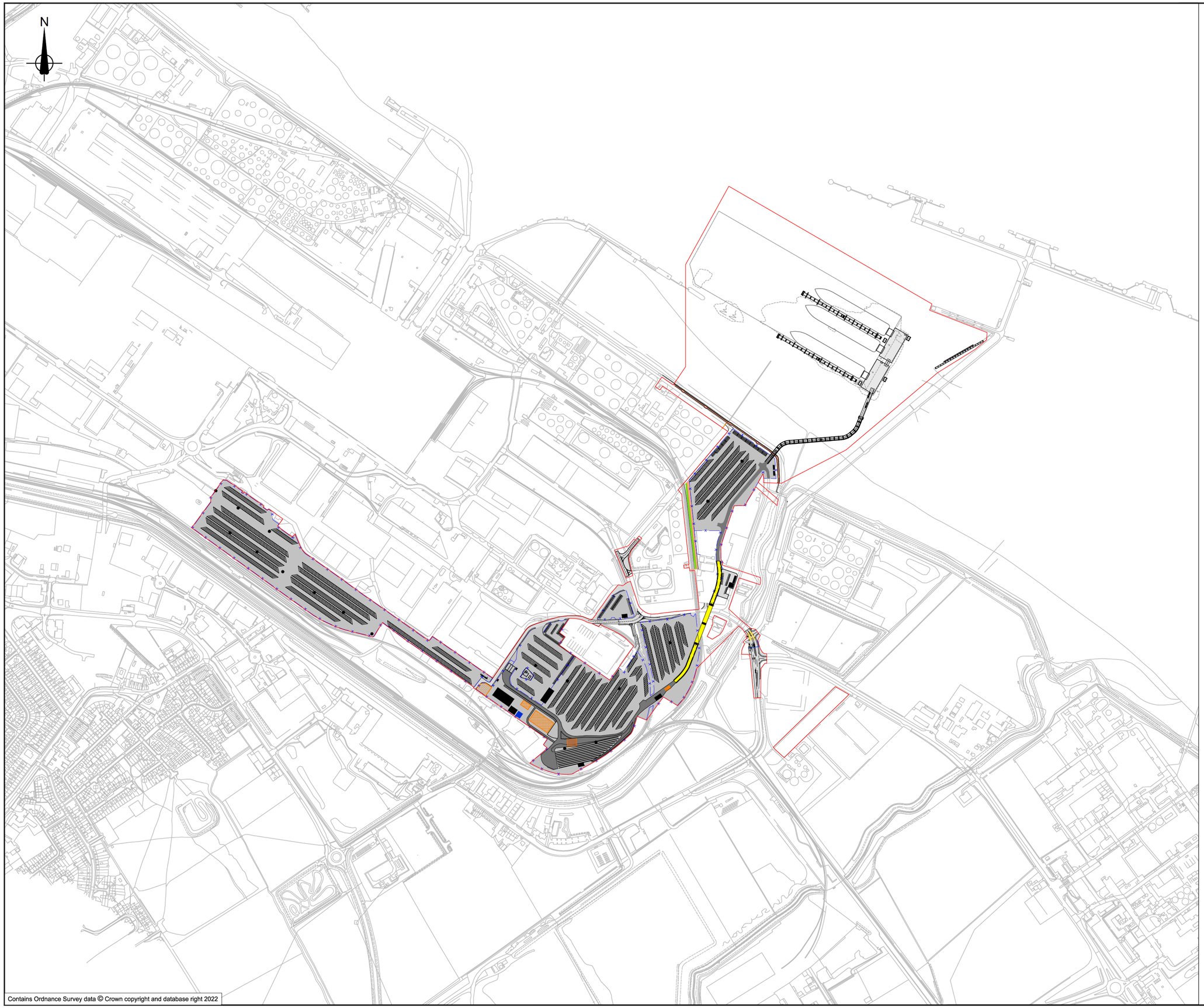


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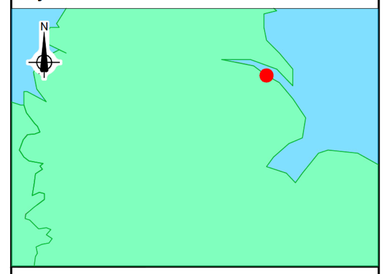


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## Legend

- Order limits
- Terminal fence
- Terminal bridge
- Above ground pipes
- New buildings
- New pipeline access track
- New terminal storage areas
- New terminal internal roads
- External roads
- Box junction
- New UKBF facilities
- New 30m high mast lighting

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SCALE 1:5000 (A1) METRES

SCALE 1:10000 (A3)

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
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IMMINGHAM EASTERN RO-RO TERMINAL

Drawing title

# OVERALL SCHEME GENERAL ARRANGEMENT

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|---|---|---|---|
| Drawing status | SUBMISSION VERSION | | Suitability S4 |
| Scale | 1:5000 @ A1 | DO NOT SCALE | |
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## Key Plan




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3. Location of parking and storage shown here for illustrative purpose only and do not indicate any minimum or maximum capacity.

## Legend

- Order Limits
- Existing above ground pipes
- Existing sea wall
- Marine infrastructure

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SCALE 1:2500 (A3)

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
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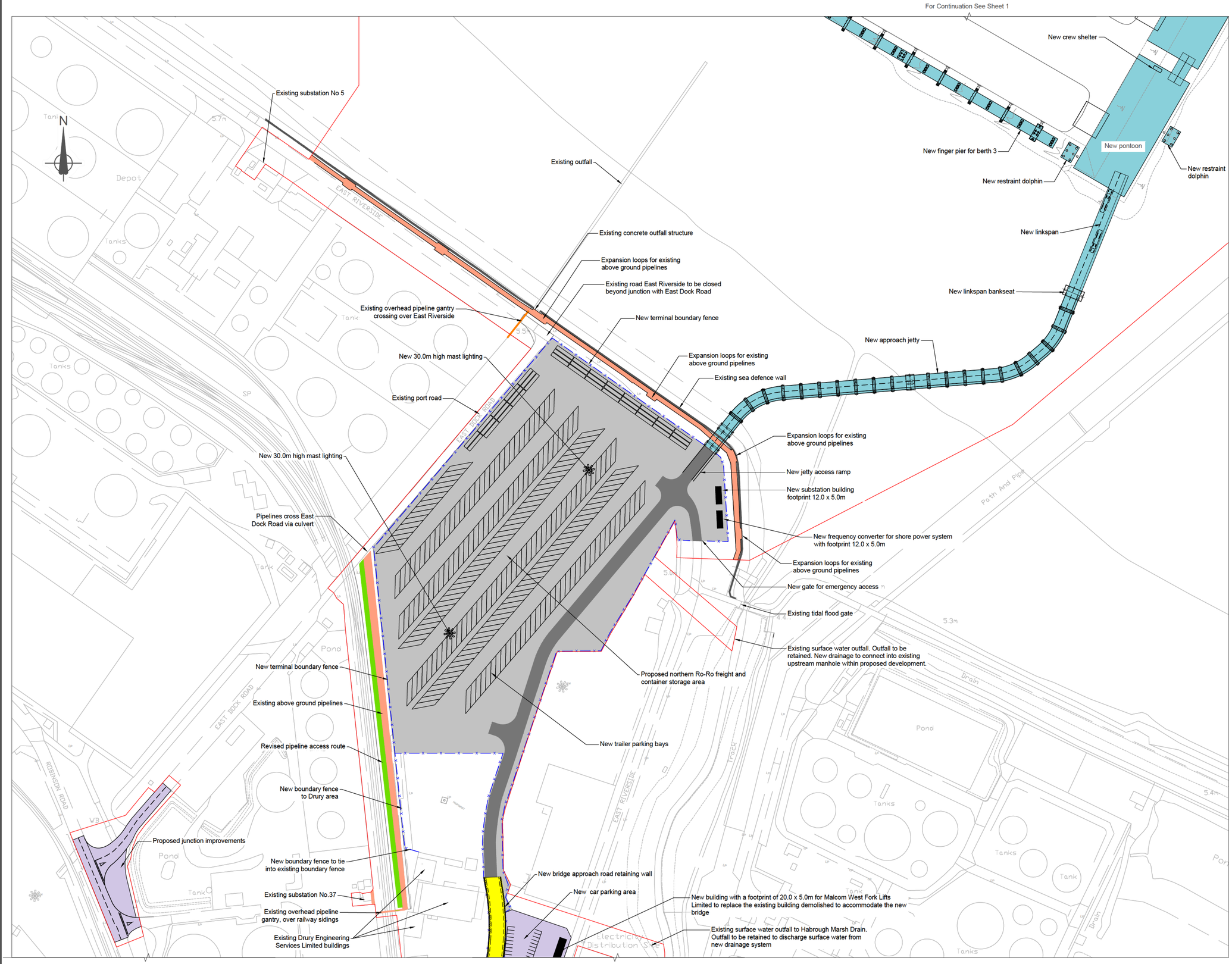
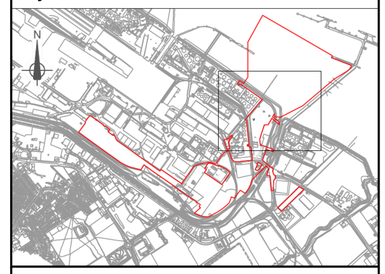



## Key Plan



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## Legends

- Order Limits
- Terminal fence
- Terminal bridge
- Above ground pipes
- New terminal buildings
- New pipeline access track
- New terminal storage areas
- New terminal internal roads
- Junction/External Road improvements
- Marine infrastructure
- Existing sea wall
- New 30m high mast lighting

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
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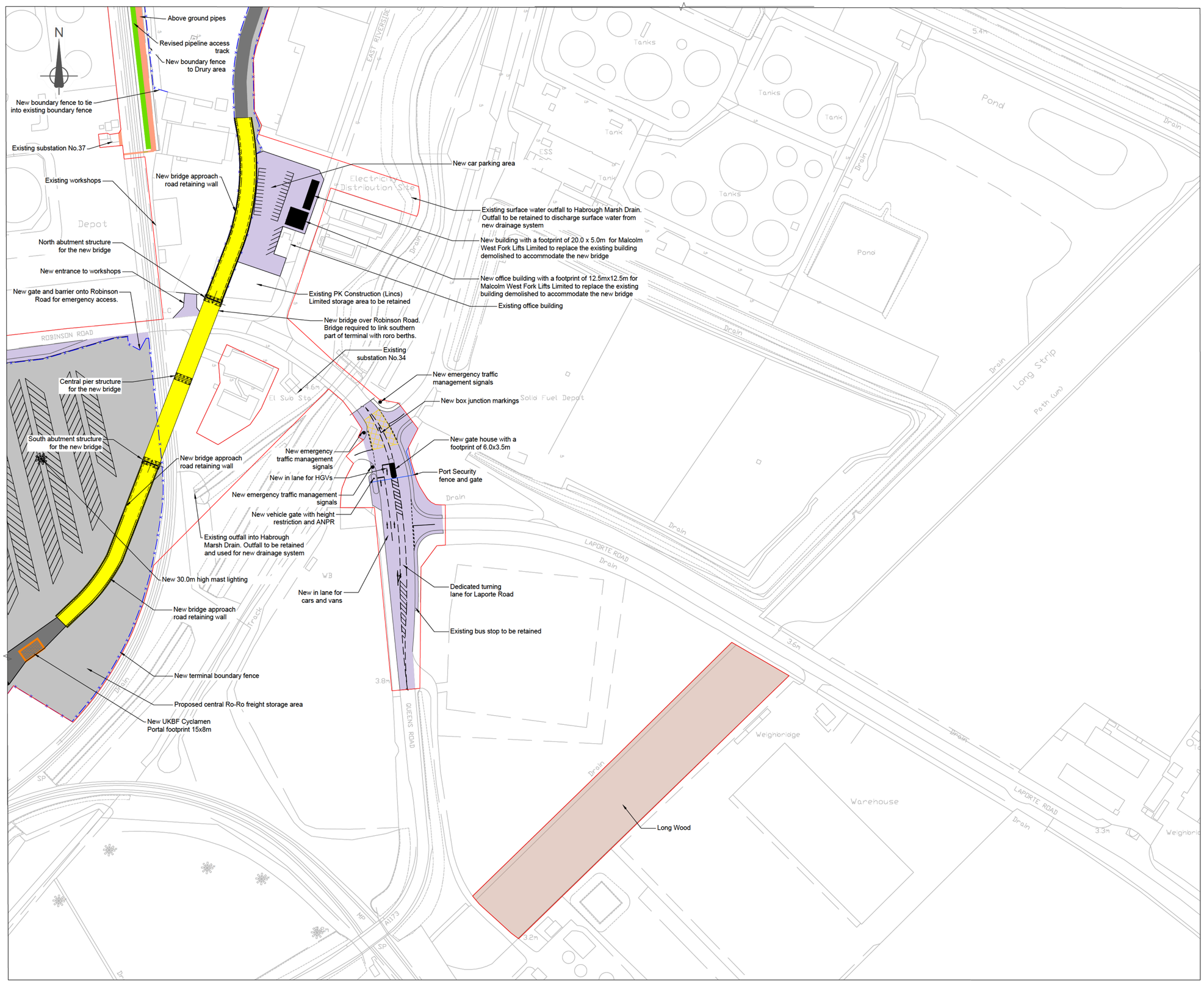
For Continuation See Sheet 2

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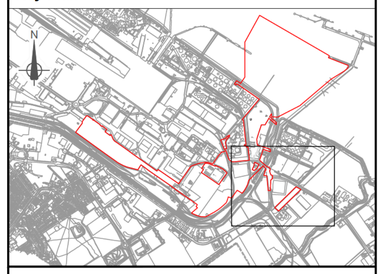
## Key Plan



## General Notes:

1. This plan should be read alongside other plans and documents in the Development Consent Order application.
2. Fire hydrants will be installed to comply with Crown Fire Standards.
3. Design, size and location of each element of the scheme shown here for illustrative purposes only.
4. Location of parking and storage shown here for illustrative purpose only and do not indicate any minimum or maximum capacity.

## Legends

- Order Limits
- Terminal fence
- Terminal bridge and approaches
- New buildings
- Woodland ecological enhancement works
- New terminal storage areas
- New terminal internal roads
- External roads Improvements
- New pipeline access track
- Above ground pipes
- New emergency traffic management signals
- Port Security fence and gate
- New UKBF facilities
- New 30m high mast lighting

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:1250 (A1) METRES
SCALE 1:2500 (A3)

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
|---|---|---|---|---|---|---|
| P02 | February 2023 | Submission Version | BHW | RH | RH | CN |
| P01 | January 2023 | Submission Version | BHW | RH | RH | CN |

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95 Bothwell St, Glasgow, G2 7HX
Tel:+44(0)141 243 8000 Fax:+44(0)141 226 3109
www.jacobs.com

Client: ABP ASSOCIATED BRITISH PORTS

Project: IMMINGHAM EASTERN RO-RO TERMINAL

Drawing title: GENERAL ARRANGEMENT PLANS EAST GATE & BRIDGE REGULATION 5(2)(o) & 5(2)(k) SHEET 3 OF 5

| | | |
|---|---|---|
| Drawing status | SUBMISSION VERSION | Suitability S4 |
| Scale | 1:1250 @ A1 | |
| Jacobs No. | B2429400 | Rev P02 |
| Client No. | | |

Drawing number: B2429400-JAC-00-ZZ-DR-ZZ-0204

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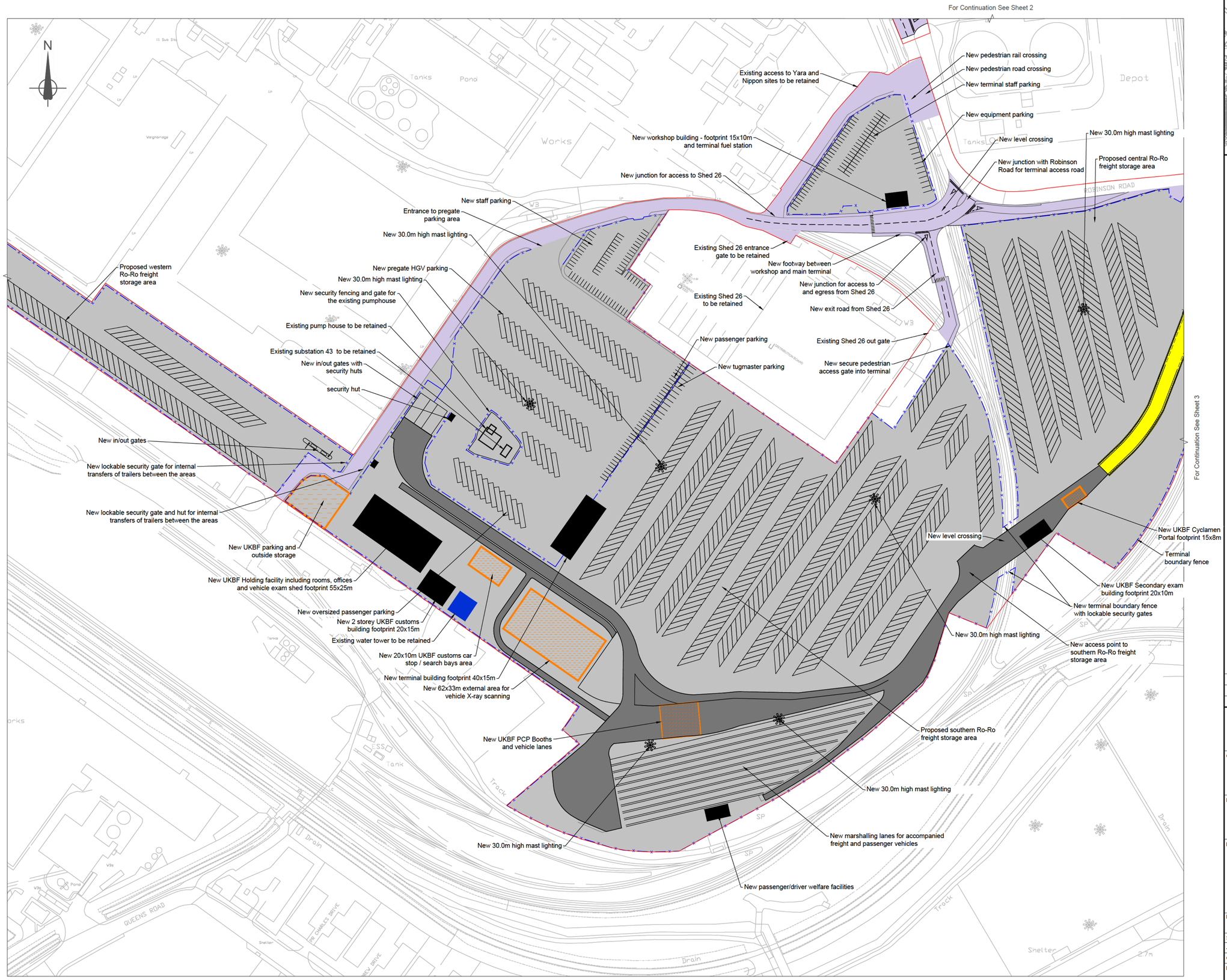
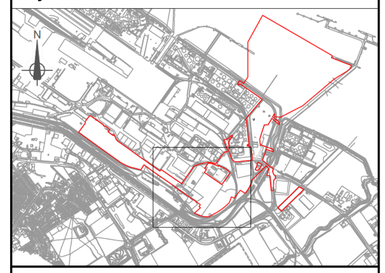



## Key Plan



## General Notes:

1. This plan should be read alongside other plans and documents in the Development Consent Order application.
2. Fire hydrants will be installed to comply with Crown Fire Standards.
3. Design, size and location of each element of the scheme shown here for illustrative purposes only.
4. Location of parking and storage shown here for illustrative purpose only and do not indicate any minimum or maximum capacity.
5. UKBF infrastructure is shown indicatively and is subject to ongoing negotiations.

## Legends

- Order Limits
- Terminal fence
- Terminal bridge
- New buildings
- New terminal storage areas
- New terminal internal roads
- Junction improvements
- New UKBF facilities
- Existing water tower
- New 30m high mast lighting

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
|---|---|---|---|---|---|---|
| P02 | February 2023 | Submission Version | BHW | RH | RH | CN |
| P01 | January 2023 | Submission Version | BHW | RH | RH | CN |

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95 Bothwell St, Glasgow, G2 7HX
Tel:+44(0)141 243 8000 Fax:+44(0)141 226 3109
www.jacobs.com

Client: ABP ASSOCIATED BRITISH PORTS

Project: IMMINGHAM EASTERN RO-RO TERMINAL

Drawing title: GENERAL ARRANGEMENT PLANS SOUTHERN & CENTRAL AREAS & WORKSHOP AREA REGULATION 5(2)(o) & 5(2)(k) SHEET 4 OF 5

| | | |
|---|---|---|
| Drawing status | SUBMISSION VERSION | Suitability S4 |
| Scale | 1:1250 @ A1 | |
| Jacobs No. | B2429400 | Rev P02 |
| Client No. | | |

Drawing number: B2429400-JAC-00-ZZ-DR-ZZ-0205

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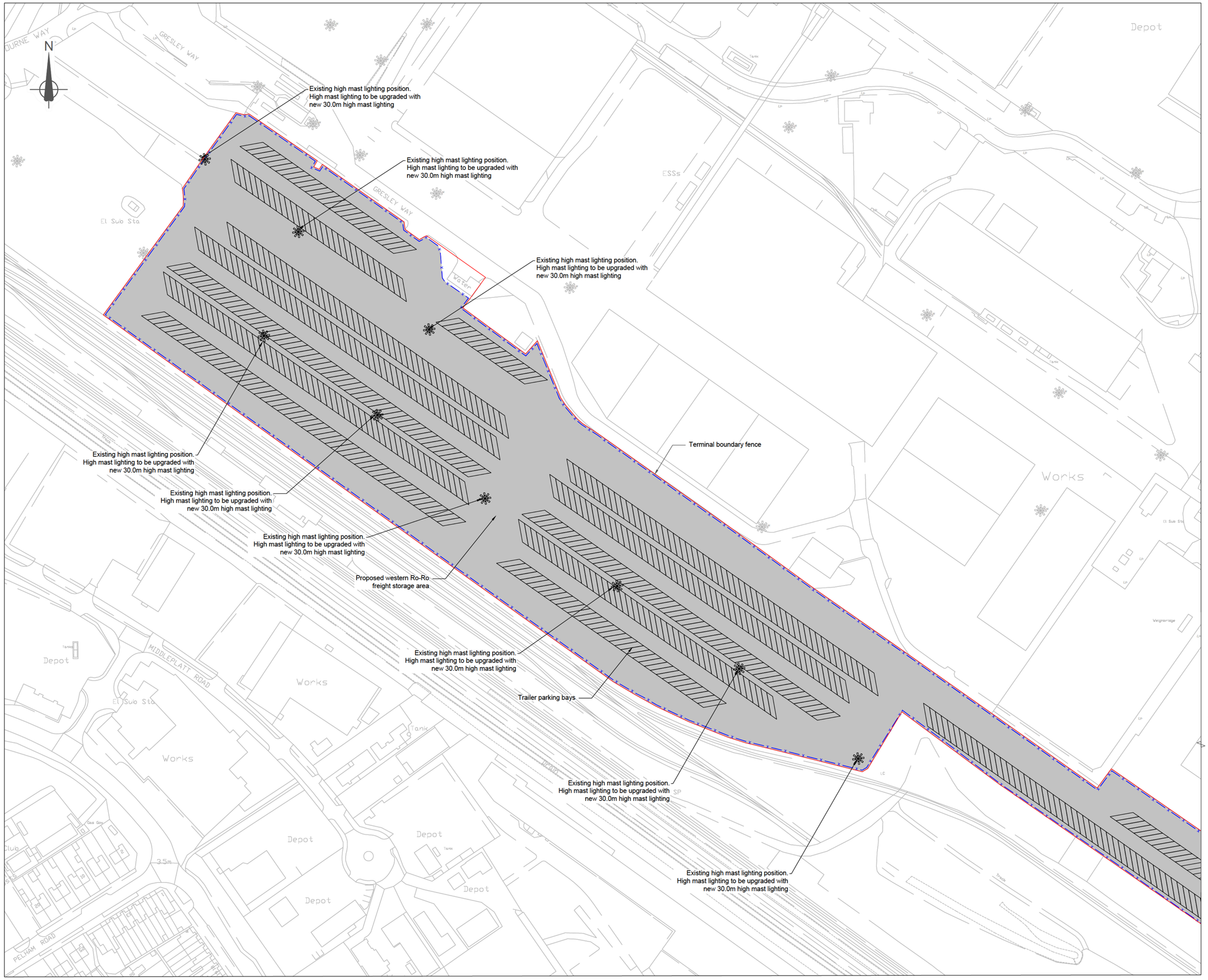
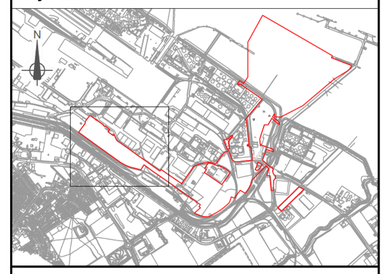



## Key Plan



## General Notes:

1. This plan should be read alongside other plans and documents in the Development Consent Order application.
2. Fire hydrants will be installed to comply with Crown Fire Standards.
3. Design, size and location of each element of the scheme shown here for illustrative purposes only.
4. Location of parking and storage shown here for illustrative purpose only and do not indicate any minimum or maximum capatity.

## Legends

- Order Limits
- Terminal fence
- New terminal storage areas
- New 30m high mast lighting

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

| Rev | Rev. Date | Purpose of revision | Orig | Check | Rev | Apprv |
|---|---|---|---|---|---|---|
| P02 | February 2023 | Submission Version | BHW | RH | RH | CN |
| P01 | January 2023 | Submission Version | BHW | RH | RH | CN |

Jacobs
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Tel: +44(0)141 243 8000 Fax: +44(0)141 226 3109
www.jacobs.com

Client: ASSOCIATED BRITISH PORTS

Project: IMMINGHAM EASTERN RO-RO TERMINAL

Drawing title: GENERAL ARRANGEMENT PLANS WESTERN YARD REGULATION 5(2)(o) & 5(2)(k) SHEET 5 OF 5

| | | |
|---|---|---|
| Drawing status | SUBMISSION VERSION | Suitability S4 |
| Scale | 1:1250 @ A1 | |
| Jacobs No. | B2429400 | Rev P02 |
| Client No. | FOR COMMENT | |

Drawing number: B2429400-JAC-00-ZZ-DR-ZZ-0206

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# Annex A - AECOM Engineer Site Walkover Photographs

**PHOTOGRAPHIC LOG**

| Client Name: Associated British Ports | Site Location: Project Sugar – Port of Immingham | Project No. 60664611 |
|---|---|---|

| Photo No. 1 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**North**

**Description**

Sub Plot 1 – Looking north towards Humber Estuary/Proposed Terminal Jetty



| Photo No. 2 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**West**

**Description**

Sub Plot 1 – Looking west towards the port.



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 3** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **West** | |
| **Description** Sub Plot 1 - Section of vegetated land between road and northern storage yard. | |



| **Photo No. 4** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **North** | |
| **Description** Sub Plot 1 – Northern storage yard containing stockpiles of blast furnace slag. Ponding present of recent rainfall. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 5** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **South** | |
| **Description** Sub Plot 1 – Rainwater ponding in centre of northern storage yard. Stockpiles of pumice in the background. |  |

| **Photo No. 6** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **West** | |
| **Description** Sub Plot 1 – Abandoned (empty) IBCs in northern storage yard. |  |

AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 7** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**Southwest**

**Description**

Sub Plot 1 – Stockpile of pumice in northern storage yard.



| **Photo No. 8** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**Southwest**

**Description**

Sub Plot 1 – Surface water ponding between two pumice stockpiles in the northern storage yard.



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 9** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**N/A**

**Description**

Sub Plot 1 – Condition of hard standing across the northern storage yard.



| **Photo No. 10** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**North**

**Description**

Sub Plot 1 – Abandoned rusty/empty drum in northern storage yard.



**PHOTOGRAPHIC LOG**

| Client Name: Associated British Ports | Site Location: Project Sugar – Port of Immingham | Project No. 60664611 |
|---|---|---|

| Photo No. 11 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**West**

**Description**

Sub Plot 1 – Land leased to third party and could not be accessed. Suspected maintenance shed containing gas cylinders, IBCs, and drums.



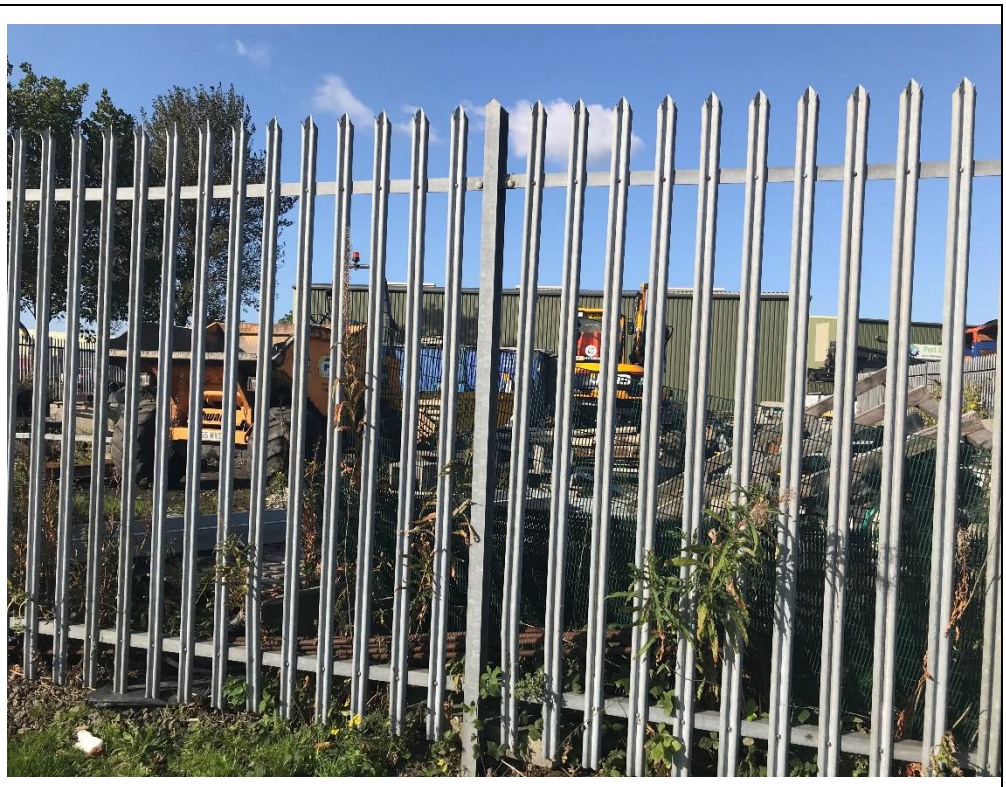
| Photo No. 12 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**West**

**Description**

Sub Plot 1 – Machinery and plant on leased land.



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 13** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**West** | |
| **Description**<br><br>Sub Plot 1 – Trestles stored on leased land. | |




| **Photo No. 14** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**East** | |
| **Description**<br><br>Sub Plot 1 – Large electricity substations situated immediately east of site. | |



AECOM

**PHOTOGRAPHIC LOG**

| Client Name: Associated British Ports | Site Location: Project Sugar – Port of Immingham | Project No. 60664611 |
|---|---|---|

| Photo No. 15 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**Northwest**

**Description**

Sub Plot 1 - Railway that runs parallel to Sub Plot 1 western boundary.



| Photo No. 16 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**East**

**Description**

Sub Plot 1 – General waste skip situated on hard standing in northeast corner of Sub Plot 1.



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 17** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**South** | |
| **Description**<br><br>Sub Plot 3 – Aggregate stockpile situated in northwestern storage yard. | |




| **Photo No. 18** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**South** | |
| **Description**<br><br>Sub Plot 3 – Trailer yard in the centre of the plot. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 19** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**West**

**Description**

Sub Plot 3 – 2 no. storage tanks (diesel and oil) situated in centre of trailer yard. Contained in concrete bund which appears to be damaged.



| **Photo No. 20** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**East**

**Description**

Sub Plot 3 – Empty corrosive container, situated in trailer yard amongst old tires and empty fuel tanks.



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 21** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **Northwest** | |
| **Description** Sub Plot 3 – Overgrown grassland further south than trailer yard. Abandoned machinery. | |



| **Photo No. 22** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:** **South** | |
| **Description** Sub Plot 3 – Fence boundary separating the storage area used for imported vehicles (west) and the vegetated land (east). | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 23** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**North** | |
| **Description**<br><br>Sub Plot 3 – Stockpile towards southern end of vegetated area. Rubbish and rubble present. | |



| **Photo No. 24** | **Date:** 21/10/2021 |
|---|---|
| **Direction Photo Taken:**<br><br>**Southeast** | |
| **Description**<br><br>Sub Plot 3 – Service duct / culvert below site (bringing power and water to the site). | |



AECOM

**PHOTOGRAPHIC LOG**

| Client Name: Associated British Ports | Site Location: Project Sugar – Port of Immingham | Project No. 60664611 |
|---|---|---|

| Photo No. 25 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**Southwest**

**Description**

Sub Plot 3 – Storage area in the northeastern corner. Looking southwest towards other storage area (aggregate stockpile).




| Photo No. 26 | Date: 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**North**

**Description**

Sub Plot 3 – Storage area in northeastern corner. Stockpile of pumice partially visible.



**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No. 27** | **Date:** 21/10/2021 |
|---|---|

**Direction Photo Taken:**

**Northeast**

**Description**

Sub Plot 3 – Storage area in northeastern corner. Stockpile of pumice.



AECOM

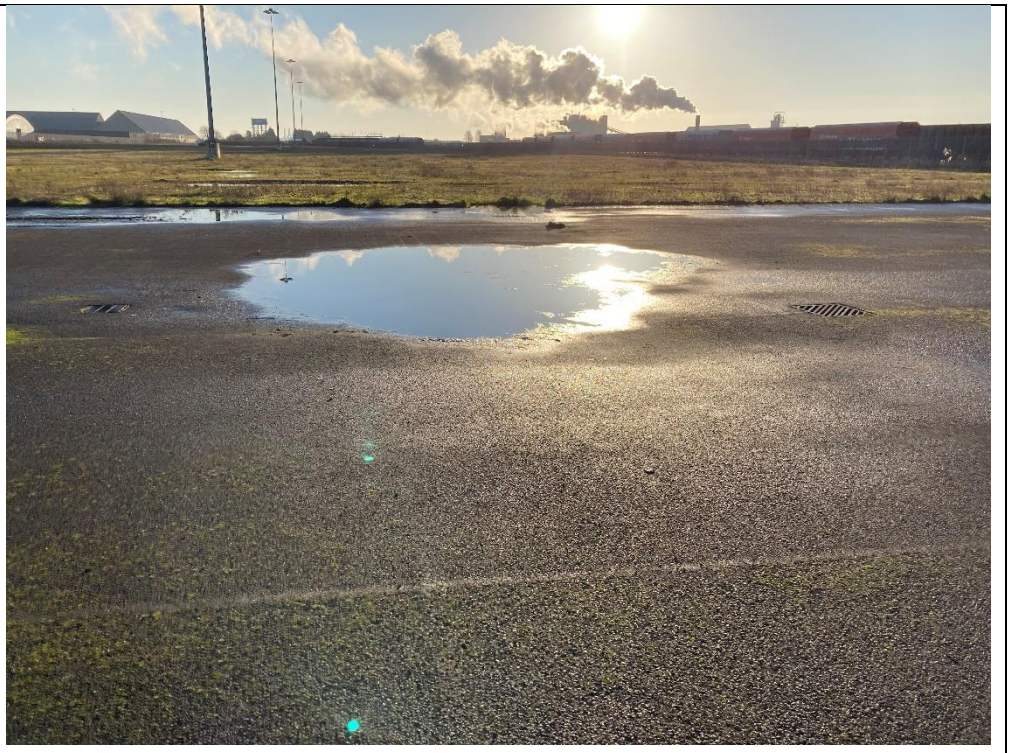
**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **28** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing west | |
| **Description** Sub Plot 4 – Vegetation across gravelled car park area. | |



| **Photo No.** **29** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing east | |
| **Description** Sub Plot 4 – Standing water observed on the site. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **30** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing northeast | |
| **Description** Sub Plot 4 – Standing water on site. | |



| **Photo No.** **31** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing west | |
| **Description** Sub Plot 4 – Temporary buildings on site. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **32** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing east | |
| **Description** Sub Plot 4 – Plastic / fibre glass security hut at the entrance to the site. | |



| **Photo No.** **33** | **Date:** 13/1/22 |
|---|---|
| **Direction Photo Taken:** Facing north | |
| **Description** Sub Plot 4 - Residential brown bin located on site. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **34** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing west | |
| **Description** Sub Plot 4 – Commercial waste bin and shelter. | |




| **Photo No.** **35** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** | |
| **Description** Sub Plot 4 – Drain on site. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **36** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** | |
| **Description** Sub Plot 4 – Drain on site. | |



| **Photo No.** **37** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** | |
| **Description** Sub Plot 4 – Drain on site. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **38** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing north | |
| **Description** Sub Plot 4 – Hardstanding across the site. | |



| **Photo No.** **39** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing north | |
| **Description** Sub Plot 4 – Waste materials deposited on hardstanding. | |



AECOM

**PHOTOGRAPHIC LOG**

| **Client Name: Associated British Ports** | **Site Location: Project Sugar – Port of Immingham** | **Project No. 60664611** |
|---|---|---|

| **Photo No.** **40** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing north | |
| **Description** Sub Plot 4 – Rock salt storage. | |



| **Photo No.** **41** | **Date:** 13/01/22 |
|---|---|
| **Direction Photo Taken:** Facing north | |
| **Description** Sub Plot 4 – Vegetation across the hardstanding area. | |



AECOM

**PHOTOGRAPHIC LOG**

| Client Name: Associated British Ports | Site Location: Project Sugar – Port of Immingham | Project No. 60664611 |
|---|---|---|

| Photo No. | Date: |
|---|---|
| 42 | 13/01/22 |

**Direction Photo Taken:**

Facing north

**Description**

Sub Plot 4 – Electric plug sockets on site.



| Photo No. | Date: |
|---|---|
| 43 | 13/01/22 |

**Direction Photo Taken:**

Facing west

**Description**

Sub Plot 4 – Apparatus on site surrounded by cones and overgrown vegetation.



# Annex B - Groundsure Report

Groundsure
LOCATION INTELLIGENCE

# Enviro+Geo Insight

520380 , 415389

## Order Details

**Date:** 08/10/2021

**Your ref:** Project_Sugar_60664611

**Our Ref:** GS-8247704

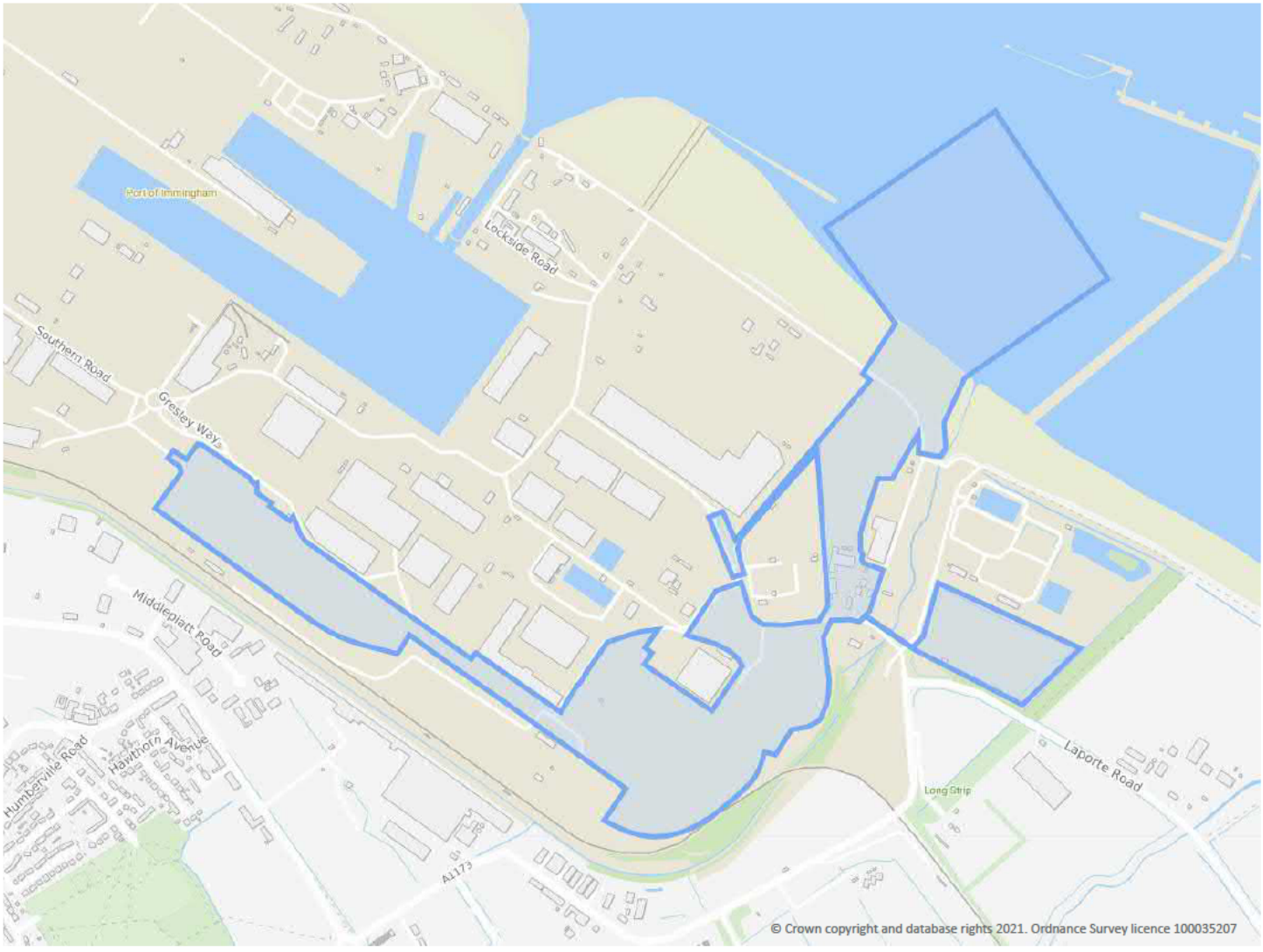
**Client:** Aecom Infrastructure and Environment UK Ltd

## Site Details

**Location:** 520076 415150

**Area:** 57.36 ha

**Authority:** North East Lincolnshire Council





**Summary of findings** p. 2

**OS MasterMap site plan** N/A: >10ha

**Aerial image** p. 8

groundsure.com/insightuserguide



Contact us with any questions at:
info@groundsure.com
08444 159 000

# Summary of findings

| Page | Section | Past land use | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 13 | 1.1 | Historical industrial land uses | 39 | 31 | 94 | 84 | - |
| 23 | 1.2 | Historical tanks | 1 | 34 | 92 | 28 | - |
| 28 | 1.3 | Historical energy features | 0 | 5 | 13 | 8 | - |
| 30 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 30 | 1.5 | Historical garages | 0 | 0 | 3 | 3 | - |
| 30 | 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 |
| 31 | 2.1 | Historical industrial land uses | 55 | 34 | 110 | 104 | - |
| 42 | 2.2 | Historical tanks | 2 | 65 | 178 | 44 | - |
| 53 | 2.3 | Historical energy features | 0 | 9 | 21 | 13 | - |
| 55 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 55 | 2.5 | Historical garages | 0 | 0 | 4 | 5 | - |
| Page | Section | Waste and landfill | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 56 | 3.1 | Active or recent landfill | 0 | 0 | 1 | 0 | - |
| 57 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 1 | - |
| 57 | 3.3 | Historical landfill (LA/mapping records) | 0 | 0 | 0 | 1 | - |
| 57 | 3.4 | Historical landfill (EA/NRW records) | 2 | 0 | 0 | 0 | - |
| 58 | 3.5 | Historical waste sites | 0 | 0 | 1 | 1 | - |
| 59 | 3.6 | Licensed waste sites | 1 | 1 | 5 | 13 | - |
| 64 | 3.7 | Waste exemptions | 1 | 4 | 0 | 18 | - |
| Page | Section | Current industrial land use | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 68 | 4.1 | Recent industrial land uses | 6 | 19 | 111 | - | - |
| 75 | 4.2 | Current or recent petrol stations | 0 | 0 | 0 | 1 | - |
| 75 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 75 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 76 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 76 | 4.6 | Control of Major Accident Hazards (COMAH) | 5 | 0 | 2 | 4 | - |
| 77 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |
| 77 | 4.8 | Hazardous substance storage/usage | 0 | 4 | 6 | 9 | - |
| 80 | 4.9 | Historical licensed industrial activities (IPC) | 0 | 0 | 14 | 19 | - |
| 84 | 4.10 | Licensed industrial activities (Part A(1)) | 0 | 0 | 30 | 74 | - |
| 102 | 4.11 | Licensed pollutant release (Part A(2)/B) | 2 | 0 | 3 | 7 | - |
| 104 | 4.12 | Radioactive Substance Authorisations | 0 | 0 | 0 | 1 | - |
| 104 | 4.13 | Licensed Discharges to controlled waters | 6 | 5 | 3 | 26 | - |
| 111 | 4.14 | Pollutant release to surface waters (Red List) | 0 | 0 | 0 | 2 | - |
| 111 | 4.15 | Pollutant release to public sewer | 0 | 0 | 4 | 0 | - |
| 112 | 4.16 | List 1 Dangerous Substances | 1 | 0 | 2 | 5 | - |
| 113 | 4.17 | List 2 Dangerous Substances | 1 | 1 | 4 | 13 | - |
| 114 | 4.18 | Pollution Incidents (EA/NRW) | 1 | 0 | 0 | 5 | - |
| 115 | 4.19 | Pollution inventory substances | 0 | 0 | 2 | 27 | - |
| 129 | 4.20 | Pollution inventory waste transfers | 0 | 0 | 1 | 5 | - |
| 136 | 4.21 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |

| Page | Section | Hydrogeology | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 137 | 5.1 | Superficial aquifer | Identified (within 500m) | | | | |
| 139 | 5.2 | Bedrock aquifer | Identified (within 500m) | | | | |
| 141 | 5.3 | Groundwater vulnerability | Identified (within 50m) | | | | |
| 143 | 5.4 | Groundwater vulnerability- soluble rock risk | None (within 0m) | | | | |
| 143 | 5.5 | Groundwater vulnerability- local information | None (within 0m) | | | | |
| 144 | 5.6 | Groundwater abstractions | 0 | 0 | 6 | 1 | 10 |
| 148 | 5.7 | Surface water abstractions | 0 | 0 | 0 | 0 | 1 |
| 149 | 5.8 | Potable abstractions | 0 | 0 | 0 | 0 | 0 |
| 149 | 5.9 | Source Protection Zones | 4 | 0 | 0 | 0 | - |
| 149 | 5.10 | Source Protection Zones (confined aquifer) | 2 | 0 | 0 | 0 | - |

| Page | Section | Hydrology | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 150 | 6.1 | Water Network (OS MasterMap) | 3 | 15 | 22 | - | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 154 | 6.2 | Surface water features | 1 | 13 | 17 | - | - |
| 154 | 6.3 | WFD Surface water body catchments | 2 | - | - | - | - |
| 154 | 6.4 | WFD Surface water bodies | 1 | 0 | 0 | - | - |
| 155 | 6.5 | WFD Groundwater bodies | 1 | - | - | - | - |
| Page | Section | River and coastal flooding | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 156 | 7.1 | Risk of flooding from rivers and the sea | High (within 50m) | | | | |
| 157 | 7.2 | Historical Flood Events | 3 | 0 | 0 | - | - |
| 157 | 7.3 | Flood Defences | 1 | 0 | 0 | - | - |
| 158 | 7.4 | Areas Benefiting from Flood Defences | 0 | 0 | 0 | - | - |
| 158 | 7.5 | Flood Storage Areas | 0 | 0 | 0 | - | - |
| 159 | 7.6 | Flood Zone 2 | Identified (within 50m) | | | | |
| 160 | 7.7 | Flood Zone 3 | Identified (within 50m) | | | | |
| Page | Section | Surface water flooding | | | | | |
| 161 | 8.1 | Surface water flooding | 1 in 30 year, Greater than 1.0m (within 50m) | | | | |
| Page | Section | Groundwater flooding | | | | | |
| 163 | 9.1 | Groundwater flooding | High (within 50m) | | | | |
| Page | Section | Environmental designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 164 | 10.1 | Sites of Special Scientific Interest (SSSI) | 1 | 0 | 0 | 0 | 0 |
| 165 | 10.2 | Conserved wetland sites (Ramsar sites) | 1 | 0 | 0 | 0 | 1 |
| 169 | 10.3 | Special Areas of Conservation (SAC) | 1 | 0 | 0 | 0 | 0 |
| 169 | 10.4 | Special Protection Areas (SPA) | 2 | 0 | 0 | 0 | 1 |
| 170 | 10.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 170 | 10.6 | Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 |
| 170 | 10.7 | Designated Ancient Woodland | 0 | 0 | 0 | 0 | 0 |
| 171 | 10.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |
| 171 | 10.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |
| 171 | 10.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| 171 | 10.11 | Green Belt | 0 | 0 | 0 | 0 | 0 |
| 171 | 10.12 | Proposed Ramsar sites | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 172 | 10.13 | Possible Special Areas of Conservation (pSAC) | 0 | 0 | 0 | 0 | 0 |
| 172 | 10.14 | Potential Special Protection Areas (pSPA) | 0 | 0 | 0 | 0 | 0 |
| 172 | 10.15 | Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 |
| **172** | **10.16** | **Nitrate Vulnerable Zones** | 1 | 0 | 1 | 0 | 2 |
| **174** | **10.17** | **SSSI Impact Risk Zones** | 7 | - | - | - | - |
| **179** | **10.18** | **SSSI Units** | 2 | 0 | 1 | 0 | 2 |
| Page | Section | Visual and cultural designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 183 | 11.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 183 | 11.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 183 | 11.3 | National Parks | 0 | 0 | 0 | - | - |
| 183 | 11.4 | Listed Buildings | 0 | 0 | 0 | - | - |
| 184 | 11.5 | Conservation Areas | 0 | 0 | 0 | - | - |
| 184 | 11.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 184 | 11.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | Agricultural designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **185** | **12.1** | **Agricultural Land Classification** | Grade 3 (within 250m) | | | | |
| 186 | 12.2 | Open Access Land | 0 | 0 | 0 | - | - |
| 186 | 12.3 | Tree Felling Licences | 0 | 0 | 0 | - | - |
| 186 | 12.4 | Environmental Stewardship Schemes | 0 | 0 | 0 | - | - |
| 186 | 12.5 | Countryside Stewardship Schemes | 0 | 0 | 0 | - | - |
| Page | Section | Habitat designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **187** | **13.1** | **Priority Habitat Inventory** | 4 | 7 | 1 | - | - |
| 188 | 13.2 | Habitat Networks | 0 | 0 | 0 | - | - |
| 188 | 13.3 | Open Mosaic Habitat | 0 | 0 | 0 | - | - |
| 188 | 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 |
| **190** | **14.1** | **10k Availability** | Identified (within 500m) | | | | |
| 191 | 14.2 | Artificial and made ground (10k) | 0 | 0 | 0 | 0 | - |
| 192 | 14.3 | Superficial geology (10k) | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 192 | 14.4 | Landslip (10k) | 0 | 0 | 0 | 0 | - |
| 193 | 14.5 | Bedrock geology (10k) | 0 | 0 | 0 | 0 | - |
| 193 | 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 |
| 194 | 15.1 | 50k Availability | Identified (within 500m) | | | | |
| 195 | 15.2 | Artificial and made ground (50k) | 2 | 2 | 2 | 4 | - |
| 196 | 15.3 | Artificial ground permeability (50k) | 4 | 2 | - | - | - |
| 197 | 15.4 | Superficial geology (50k) | 2 | 0 | 0 | 0 | - |
| 198 | 15.5 | Superficial permeability (50k) | Identified (within 50m) | | | | |
| 198 | 15.6 | Landslip (50k) | 0 | 0 | 0 | 0 | - |
| 198 | 15.7 | Landslip permeability (50k) | None (within 50m) | | | | |
| 199 | 15.8 | Bedrock geology (50k) | 3 | 0 | 1 | 0 | - |
| 200 | 15.9 | Bedrock permeability (50k) | Identified (within 50m) | | | | |
| 200 | 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 |
| 201 | 16.1 | BGS Boreholes | 8 | 11 | 29 | - | - |
| Page | Section | Natural ground subsidence | | | | | |
| 204 | 17.1 | Shrink swell clays | Low (within 50m) | | | | |
| 205 | 17.2 | Running sands | Moderate (within 50m) | | | | |
| 207 | 17.3 | Compressible deposits | Moderate (within 50m) | | | | |
| 209 | 17.4 | Collapsible deposits | Negligible (within 50m) | | | | |
| 210 | 17.5 | Landslides | Very low (within 50m) | | | | |
| 211 | 17.6 | Ground dissolution of soluble rocks | Negligible (within 50m) | | | | |
| Page | Section | Mining, ground workings and natural cavities | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 213 | 18.1 | Natural cavities | 0 | 0 | 0 | 0 | - |
| 214 | 18.2 | BritPits | 0 | 0 | 0 | 0 | - |
| 214 | 18.3 | Surface ground workings | 13 | 9 | 17 | - | - |
| 215 | 18.4 | Underground workings | 0 | 0 | 0 | 0 | 0 |
| 216 | 18.5 | Historical Mineral Planning Areas | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 18.6 | Non-coal mining | 0 | 0 | 0 | 0 | 0 |
| 216 | 18.7 | Mining cavities | 0 | 0 | 0 | 0 | 0 |
| 216 | 18.8 | JPB mining areas | None (within 0m) | | | | |
| **216** | **18.9** | **Coal mining** | Identified (within 0m) | | | | |
| 217 | 18.10 | Brine areas | None (within 0m) | | | | |
| 217 | 18.11 | Gypsum areas | None (within 0m) | | | | |
| 217 | 18.12 | Tin mining | None (within 0m) | | | | |
| 217 | 18.13 | Clay mining | None (within 0m) | | | | |

| Page | Section | Radon | |
|---|---|---|---|
| **218** | **19.1** | **Radon** | Less than 1% (within 0m) |

| Page | Section | Soil chemistry | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| **219** | **20.1** | **BGS Estimated Background Soil Chemistry** | 15 | 1 | - | - | - |
| 220 | 20.2 | BGS Estimated Urban Soil Chemistry | 0 | 0 | - | - | - |
| 220 | 20.3 | BGS Measured Urban Soil Chemistry | 0 | 0 | - | - | - |

| Page | Section | Railway infrastructure and projects | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 221 | 21.1 | Underground railways (London) | 0 | 0 | 0 | - | - |
| 221 | 21.2 | Underground railways (Non-London) | 0 | 0 | 0 | - | - |
| 222 | 21.3 | Railway tunnels | 0 | 0 | 0 | - | - |
| **222** | **21.4** | **Historical railway and tunnel features** | 24 | 21 | 34 | - | - |
| 225 | 21.5 | Royal Mail tunnels | 0 | 0 | 0 | - | - |
| **225** | **21.6** | **Historical railways** | 0 | 0 | 2 | - | - |
| **226** | **21.7** | **Railways** | 7 | 24 | 18 | - | - |
| 228 | 21.8 | Crossrail 1 | 0 | 0 | 0 | 0 | - |
| 228 | 21.9 | Crossrail 2 | 0 | 0 | 0 | 0 | - |
| 228 | 21.10 | HS2 | 0 | 0 | 0 | 0 | - |

## Recent aerial photograph




Capture Date: 20/09/2019

Site Area: 57.36ha

## Recent site history - 2016 aerial photograph




Capture Date: 21/04/2016

Site Area: 57.36ha

# Recent site history - 2014 aerial photograph




Capture Date: 27/09/2014

Site Area: 57.36ha

# Recent site history - 2007 aerial photograph




Capture Date: 27/08/2007

Site Area: 57.36ha

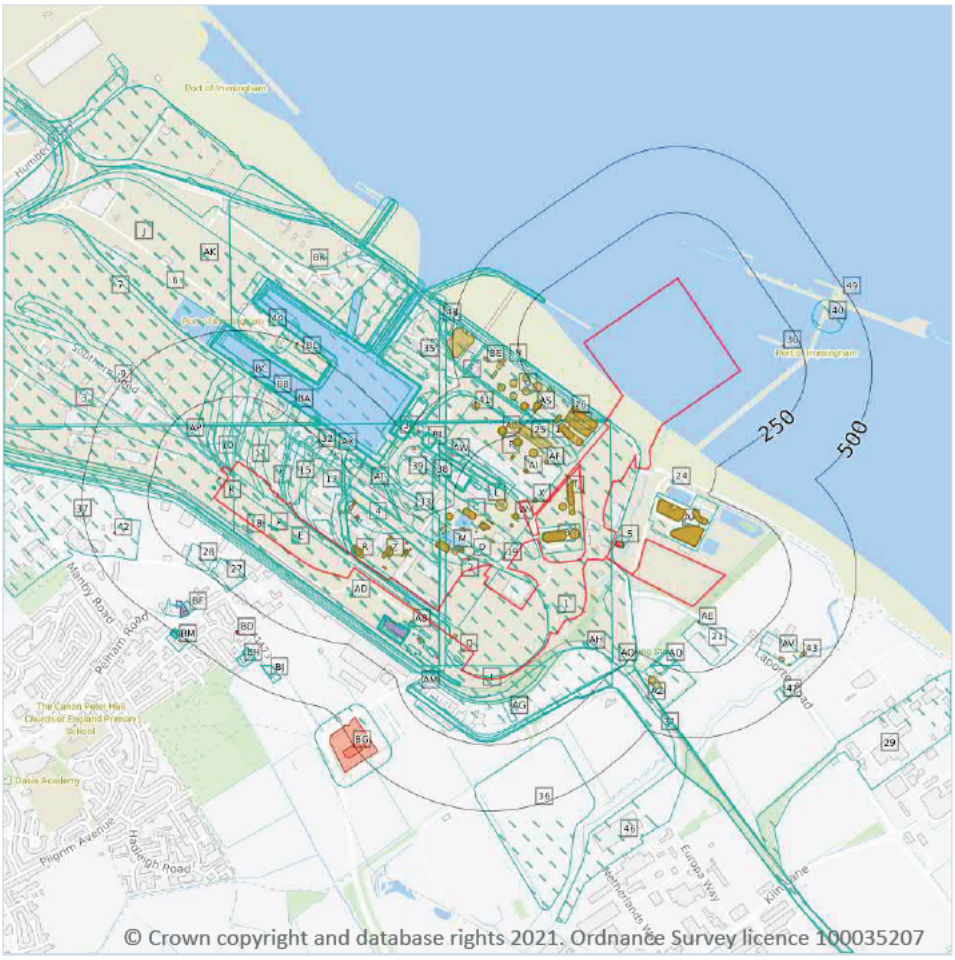
# Recent site history - 1999 aerial photograph




Capture Date: 03/07/1999

Site Area: 57.36ha

# 1 Past land use




Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

## 1.1 Historical industrial land uses

| Records within 500m | 248 |
|---|---|

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 13**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| 1 | On site | Railway Building | 1886 | 1988105 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| 2 | On site | Unspecified Commercial/Industrial | 1952 | 1988561 |
| 3 | On site | Railway Sidings | 1968 | 1989968 |
| 4 | On site | Unspecified Works | 1974 | 1989983 |
| 5 | On site | Dock | 1968 | 1991633 |
| 6 | On site | Railway Sidings | 1938 - 1947 | 1996271 |
| 7 | On site | Railway Sidings | 1972 - 1974 | 1997693 |
| 8 | On site | Docks | 1974 - 1983 | 2000478 |
| 9 | On site | Docks | 1951 | 2001133 |
| 10 | On site | Unspecified Pit | 1983 | 1985449 |
| 11 | On site | Unspecified Pit | 1983 | 1985448 |
| 13 | On site | Unspecified Ground Workings | 1968 | 1986039 |
| A | On site | Railway Buildings | 1930 | 1987784 |
| A | On site | Railway Building | 1886 | 1988128 |
| A | On site | Railway Building | 1886 | 1988129 |
| A | On site | Railway Building | 1886 | 1988130 |
| A | On site | Railway Building | 1886 | 1990925 |
| A | On site | Railway Building | 1930 | 1994710 |
| A | On site | Railway Building | 1968 - 1974 | 2000775 |
| B | On site | Oil Storage Depot | 1972 | 1985618 |
| C | On site | Chemical Works | 1972 | 1986395 |
| C | On site | Dock Station | 1947 | 1988304 |
| D | On site | Unspecified Dock | 1930 | 1987275 |
| D | On site | Unspecified Works | 1968 | 1995147 |
| E | On site | Railway Buildings | 1930 | 1987786 |
| E | On site | Railway Building | 1886 | 1988126 |
| E | On site | Railway Building | 1886 | 1988127 |
| F | On site | Graving Dock | 1947 | 1990012 |
| F | On site | Graving Dock | 1947 | 1990013 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| **G** | **On site** | **Unspecified Works** | **1983** | **1990088** |
| **H** | **On site** | **Railway Building** | **1930** | **1990801** |
| **H** | **On site** | **Railway Building** | **1886** | **1997876** |
| **I** | **On site** | **Railway Sidings** | **1965 - 1968** | **1990941** |
| **I** | **On site** | **Railway Sidings** | **1980 - 1988** | **2001980** |
| **J** | **On site** | **Unspecified Commercial/Industrial** | **1947** | **1996371** |
| **J** | **On site** | **Dock** | **1947** | **2001356** |
| **K** | **On site** | **Railway Sidings** | **1983** | **1997697** |
| **L** | **On site** | **Railway Sidings** | **1972** | **1998119** |
| **M** | **On site** | **Railway Sidings** | **1886 - 1952** | **2002225** |
| 14 | 0m N | Unspecified Pit | 1983 | 1985450 |
| N | 0m NW | Railway Sidings | 1930 | 2001785 |
| O | 3m W | Oil Storage Depots | 1972 | 1987276 |
| 15 | 6m E | Cuttings | 1968 | 1986343 |
| P | 8m NE | Chemical Works | 1972 | 1986394 |
| Q | 10m SW | Unspecified Tank | 1972 | 1986777 |
| Q | 10m NW | Railway Building | 1886 | 1993872 |
| Q | 10m NW | Railway Building | 1930 | 1997632 |
| R | 11m NE | Unspecified Tanks | 1974 - 1983 | 1999292 |
| B | 11m E | Unspecified Tanks | 1972 | 1987645 |
| T | 13m SE | Unspecified Tanks | 1972 | 1987649 |
| 16 | 14m NW | Railway Sidings | 1972 | 2002243 |
| 17 | 15m NE | Unspecified Ground Workings | 1968 | 1986040 |
| U | 15m NW | Railway Building | 1886 | 1996883 |
| U | 16m NW | Railway Building | 1930 | 1990476 |
| S | 17m E | Electricity Substation | 1972 | 1989876 |
| 18 | 18m SW | Railway Building | 1983 | 1988131 |
| U | 21m NW | Railway Building | 1968 | 1991999 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| W | 24m W | Unspecified Tank | 1972 | 1986771 |
| X | 25m NE | Unspecified Tank | 1972 | 1986772 |
| R | 26m NE | Unspecified Tank | 1968 | 1986778 |
| Y | 30m W | Unspecified Tanks | 1972 | 1987655 |
| AA | 37m NE | Oil Storage Depot | 1972 | 1985617 |
| AB | 39m SW | Railway Building | 1968 - 1983 | 1996909 |
| AB | 40m SW | Unspecified Heap | 1886 | 1998969 |
| AB | 42m SW | Unspecified Heap | 1930 | 1991499 |
| AB | 45m SW | Unspecified Pit | 1930 | 1992558 |
| AB | 45m SW | Unspecified Pit | 1886 | 1995573 |
| AB | 45m SW | Railway Building | 1886 | 1992284 |
| AB | 45m SW | Railway Building | 1930 | 1999716 |
| AB | 49m SW | Unspecified Pit | 1965 | 1994484 |
| AC | 52m NE | Unspecified Tanks | 1972 | 1987644 |
| 21 | 52m S | Unspecified Warehouse | 1972 | 1985834 |
| L | 53m NW | Unspecified Commercial/Industrial | 1952 | 1988560 |
| W | 55m W | Unspecified Tank | 1972 | 1986770 |
| 22 | 56m S | Railway Building | 1930 | 1988108 |
| Z | 58m NE | Unspecified Tanks | 1974 - 1983 | 2001516 |
| AD | 59m S | Railway Building | 1968 | 1995013 |
| Z | 61m NE | Unspecified Tanks | 1968 | 1992736 |
| AD | 62m S | Railway Building | 1886 | 1999989 |
| AD | 63m S | Railway Building | 1974 - 1983 | 2000153 |
| AB | 70m SW | Engine Shed | 1968 | 1998726 |
| L | 70m NW | Unspecified Stores | 1930 | 1988320 |
| AB | 70m SW | Engine Shed | 1930 | 1998285 |
| AB | 70m SW | Engine Shed | 1938 | 1998339 |
| L | 71m NW | Railway Building | 1886 | 1988107 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AB | 72m SW | Railway Building | 1974 - 1983 | 1990703 |
| AB | 72m SW | Railway Building | 1930 | 1995428 |
| C | 73m N | Unspecified Tanks | 1972 | 1987668 |
| AB | 73m SW | Railway Building | 1930 | 1998179 |
| AB | 73m SW | Railway Building | 1886 | 1999211 |
| AB | 73m SW | Railway Buildings | 1930 | 1987782 |
| AB | 73m SW | Engine Shed | 1930 | 1995767 |
| AB | 73m SW | Engine Shed | 1886 | 1995844 |
| AB | 73m SW | Railway Building | 1886 | 1998612 |
| AB | 74m SW | Railway Building | 1886 | 1988119 |
| AB | 75m SW | Railway Building | 1886 | 1988121 |
| AB | 75m SW | Engine Shed | 1947 | 1995039 |
| AB | 76m SW | Engine Shed | 1951 | 1994299 |
| AB | 78m SW | Railway Building | 1968 | 1988122 |
| AB | 83m SW | Railway Buildings | 1974 - 1983 | 1991560 |
| AB | 83m SW | Railway Building | 1886 | 1988120 |
| AB | 87m W | Unspecified Pit | 1951 | 2001951 |
| AF | 88m NW | Unspecified Tanks | 1972 | 1987650 |
| AB | 90m W | Unspecified Pit | 1951 | 1985447 |
| AG | 93m S | Pump House | 1988 | 1987309 |
| AH | 95m S | Unspecified Heap | 1930 | 1991927 |
| AH | 95m S | Unspecified Heap | 1886 | 1993022 |
| C | 96m NW | Unspecified Tanks | 1972 | 1993176 |
| AH | 97m SE | Unspecified Heap | 1938 | 1998111 |
| 24 | 101m SE | Unspecified Tank | 1972 | 1986765 |
| L | 102m NW | Store | 1938 | 1985846 |
| L | 103m NW | Railway Building | 1886 | 1988097 |
| L | 104m NW | Unspecified Store | 1930 | 1989622 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AA | 111m NE | Unspecified Tanks | 1972 | 1987648 |
| G | 114m NE | Electric Substation | 1983 | 1988659 |
| AB | 114m W | Railway Building | 1974 | 1995273 |
| AB | 114m W | Railway Building | 1983 | 1996991 |
| L | 117m W | Railway Building | 1886 | 1988106 |
| C | 119m NW | Unspecified Tanks | 1952 | 1990419 |
| G | 121m NE | Unspecified Tanks | 1968 | 1987667 |
| AB | 129m SW | Railway Building | 1930 | 1996594 |
| AB | 131m SW | Railway Building | 1886 | 1991312 |
| C | 134m NW | Unspecified Tank | 1968 - 1983 | 1990483 |
| C | 136m N | Unspecified Tanks | 1972 | 1987646 |
| AK | 137m N | Dock | 1930 | 1989992 |
| AK | 137m N | Dock | 1930 | 1989993 |
| AL | 141m NW | Unspecified Tanks | 1972 | 1987654 |
| AM | 142m W | Gas Valve Compound | 1985 | 1987519 |
| AJ | 144m NE | Unspecified Tanks | 1972 | 1987643 |
| L | 155m NW | Railway Building | 1938 | 1995974 |
| L | 155m NW | Wool Shed | 1930 | 1995430 |
| G | 157m NE | Unspecified Tank | 1974 - 1983 | 1999892 |
| L | 158m NW | Railway Building | 1886 | 1998466 |
| AN | 160m NW | Unspecified Tank | 1972 | 1986764 |
| AG | 162m SW | Railway Sidings | 1930 | 2000070 |
| 27 | 164m SW | Unspecified Works | 1983 | 1986961 |
| AO | 164m SE | Railway Sidings | 1947 | 1995520 |
| AO | 164m SE | Railway Sidings | 1930 | 2000438 |
| C | 170m N | Unspecified Tank | 1972 | 1986768 |
| C | 172m W | Unspecified Tanks | 1972 | 1987647 |
| 28 | 174m SW | Unspecified Depot | 1974 - 1983 | 1991240 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AP | 183m NW | Railway Building | 1930 | 1999406 |
| AP | 183m NW | Railway Building | 1886 | 1991389 |
| 29 | 185m SE | Railway Sidings | 1965 | 2001368 |
| C | 185m N | Unspecified Tank | 1972 | 1986769 |
| AM | 187m W | Pumping Station | 1985 | 1988720 |
| AQ | 193m SW | Sewage Works | 1972 | 2001007 |
| AQ | 195m SW | Sewage Works | 1952 | 1995136 |
| L | 196m NW | Railway Building | 1886 | 1988096 |
| 31 | 197m SE | Railway Sidings | 1968 | 2002139 |
| AQ | 198m SW | Sewage Works | 1930 - 1947 | 1996629 |
| O | 203m SW | Unspecified Tank | 1972 | 1986767 |
| L | 204m NW | Wool Shed | 1930 - 1947 | 1994081 |
| 32 | 204m NE | Unspecified Heap | 1974 | 1989551 |
| L | 205m NW | Wool Shed | 1952 | 1997648 |
| AR | 206m N | Unspecified Tanks | 1972 | 1987653 |
| L | 208m NW | Wool Sheds | 1886 | 1989616 |
| L | 210m NW | Unspecified Warehouse | 1972 | 1985837 |
| O | 224m SW | Unspecified Tanks | 1972 | 1987657 |
| AQ | 231m S | Sewage Works | 1980 - 1988 | 1990902 |
| AQ | 243m S | Unspecified Works | 1968 | 1986962 |
| O | 244m SW | Unspecified Tanks | 1972 | 1987658 |
| AS | 247m W | Unspecified Tanks | 1972 | 1987656 |
| L | 248m NW | Railway Building | 1886 | 1988098 |
| AT | 258m NE | Railway Building | 1886 | 1988095 |
| AT | 258m NE | Railway Building | 1886 | 1988125 |
| AU | 262m N | Unspecified Tanks | 1972 | 1987651 |
| AV | 265m SE | Chemicals Works | 1972 | 1988693 |
| AT | 266m NE | Railway Building | 1886 | 1988124 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AW | 269m NW | Store | 1938 | 1985845 |
| AW | 270m NW | Unspecified Store | 1930 | 1989621 |
| 33 | 270m N | Railway Building | 1886 | 1988123 |
| 34 | 272m NE | Dock | 1886 | 1997151 |
| AX | 273m NE | Railway Building | 1930 | 1991061 |
| 35 | 275m NW | Railway Sidings | 1972 - 1983 | 1998118 |
| AX | 275m NE | Railway Building | 1886 | 1990971 |
| AY | 276m NE | Railway Building | 1886 | 1988100 |
| 36 | 279m SE | Gypsum Disposal Bed | 1965 | 1988843 |
| AY | 279m NE | Hydraulic Accumulator | 1930 | 1987705 |
| AS | 282m NW | Unspecified Tank | 1972 | 1986766 |
| AZ | 288m SE | Railway Sidings | 1947 | 1994854 |
| AZ | 288m SE | Railway Sidings | 1930 | 1995111 |
| AY | 291m NE | Railway Building | 1886 | 1988099 |
| 37 | 292m W | Industrial Estate | 1983 | 1987811 |
| O | 293m SW | Unspecified Tanks | 1972 | 1987659 |
| M | 294m NE | Coal Hoists | 1930 | 1990166 |
| BA | 294m NE | Coal Hoists | 1930 - 1947 | 1997014 |
| BB | 297m NE | Coal Hoists | 1930 - 1947 | 1993263 |
| BA | 297m NE | Coal Hoists | 1951 | 1999608 |
| M | 297m NE | Coal Hoists | 1951 | 1999441 |
| BA | 299m NE | Coal Hoists | 1968 | 1994185 |
| BB | 299m NE | Coal Hoists | 1983 | 1998537 |
| M | 300m NE | Coal Hoists | 1947 | 2000046 |
| BA | 300m NE | Coal Hoist | 1974 | 1988337 |
| AX | 302m NE | Coal Hoists | 1947 | 1988470 |
| BB | 302m NE | Coal Hoists | 1951 | 1992941 |
| BB | 303m NE | Coal Hoists | 1974 | 1990872 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| BB | 303m NE | Coal Hoists | 1968 | 1997561 |
| AQ | 308m SW | Unspecified Tank | 1980 - 1988 | 1995784 |
| 38 | 314m W | Railway Sidings | 1968 | 1998608 |
| AQ | 319m SW | Unspecified Tank | 1980 - 1988 | 2001820 |
| O | 322m SW | Unspecified Tanks | 1972 | 1987652 |
| BC | 326m N | Coal Hoists | 1930 - 1951 | 1998338 |
| 39 | 327m NE | Railway Buildings | 1886 | 1987783 |
| BC | 330m N | Coal Hoists | 1983 | 1995341 |
| 40 | 332m NE | Oil Terminal | 1972 | 1988737 |
| BC | 333m N | Coal Hoists | 1974 | 2000598 |
| BC | 333m N | Coal Hoists | 1968 | 2000877 |
| O | 342m SW | Unspecified Tanks | 1972 | 1987660 |
| N | 346m W | Unspecified Tanks | 1972 | 1987661 |
| BE | 364m W | Unspecified Tanks | 1972 | 1987662 |
| F | 372m W | Unspecified Commercial/Industrial | 1952 | 1995702 |
| K | 378m N | Coal Hoists | 1947 | 1990427 |
| BF | 378m SW | Telephone Exchange | 1930 | 1989254 |
| K | 379m N | Coal Hoists | 1930 | 1998863 |
| K | 382m N | Coal Hoists | 1951 | 1993350 |
| BG | 385m SW | Transforming Station | 1976 | 1988485 |
| BH | 386m SW | Hospital | 1968 | 1996162 |
| BH | 388m SW | Hospital | 1974 | 1991920 |
| BH | 388m SW | Hospital | 1983 | 1995255 |
| K | 390m N | Pump House | 1983 | 1987306 |
| BI | 393m NW | Grain Store | 1947 | 2001496 |
| BI | 395m NW | Grain Store | 1930 - 1938 | 1994852 |
| BI | 396m NW | Grain Store | 1930 | 1992356 |
| BI | 396m NW | Grain Store | 1886 | 1996763 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| BI | 396m NW | Unspecified Warehouse | 1974 - 1983 | 2001034 |
| BF | 396m SW | Telephone Exchange | 1938 | 1989255 |
| BI | 398m NW | Unspecified Warehouse | 1968 | 1998865 |
| BJ | 404m SW | Unspecified Warehouse | 1968 | 1995529 |
| BJ | 404m SW | Unspecified Warehouse | 1985 | 1996616 |
| BJ | 404m SW | Unspecified Warehouse | 1976 | 1996727 |
| BK | 406m NE | Dock | 1947 | 1991148 |
| BK | 406m NE | Railway Sidings | 1947 | 1992595 |
| F | 416m W | Unspecified Tanks | 1972 | 2001633 |
| 44 | 435m N | Ferry Terminal | 1974 - 1983 | 2001514 |
| 46 | 445m S | Railway Sidings | 1988 | 1994297 |
| 47 | 450m SE | Gas Valve Compound | 1980 - 1988 | 1994317 |
| BL | 453m NE | Unspecified Depot | 1974 - 1983 | 1993604 |
| BI | 467m NE | Transit Shed | 1886 - 1951 | 1992686 |
| BI | 469m NE | Transit Shed | 1930 | 1996928 |
| BI | 471m NE | Transit Shed | 1938 | 1993949 |
| BI | 471m NE | Transit Shed | 1947 | 1991256 |
| BM | 483m SW | Police Station | 1938 | 1990921 |
| 48 | 486m W | Unspecified Heap | 1930 | 1989547 |
| BM | 492m SW | Police Station | 1974 - 1983 | 1997050 |
| BM | 493m SW | Police Station | 1930 | 1994685 |
| BM | 497m SW | Police Station | 1886 | 1994664 |
| BM | 498m SW | Police Station | 1951 - 1968 | 1992327 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

| Records within 500m | 155 |
|---|---|

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 13**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| **12** | **On site** | **Unspecified Tank** | **1996 - 1999** | **337064** |
| Q | 11m SW | Unspecified Tank | 1964 - 1979 | 335095 |
| R | 11m NE | Tanks | 1982 - 1988 | 334696 |
| R | 14m NE | Tanks | 1972 | 334458 |
| T | 15m SE | Tanks | 1996 - 1999 | 336663 |
| B | 15m E | Tanks | 1971 | 334889 |
| T | 15m SE | Unspecified Tank | 1971 | 333579 |
| T | 15m SE | Tanks | 1971 | 333969 |
| B | 16m SE | Tanks | 1996 - 1999 | 336689 |
| T | 17m SE | Tanks | 1969 - 1979 | 334855 |
| V | 17m W | Unspecified Tank | 1969 - 1979 | 334820 |
| B | 18m E | Unspecified Tank | 1969 | 333588 |
| B | 18m E | Tanks | 1979 | 334358 |
| V | 19m W | Tanks | 1971 | 332451 |
| W | 20m W | Unspecified Tank | 1969 - 1979 | 335050 |
| W | 22m W | Unspecified Tank | 1964 - 1971 | 334816 |
| W | 23m W | Unspecified Tank | 1996 - 1999 | 335340 |
| T | 27m W | Unspecified Tank | 1979 | 333580 |
| X | 27m NE | Unspecified Tank | 1971 | 334465 |
| Y | 27m W | Tanks | 1969 - 1979 | 335824 |
| R | 28m NE | Unspecified Tank | 1964 | 333601 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| R | 28m NE | Unspecified Tank | 1972 | 333600 |
| Z | 28m NE | Tanks | 1964 - 1988 | 336348 |
| 19 | 29m NW | Unspecified Tank | 1996 - 1999 | 334042 |
| Y | 30m W | Tanks | 1964 - 1999 | 334868 |
| X | 30m NW | Unspecified Tank | 1969 - 1979 | 336942 |
| Y | 36m NW | Unspecified Tank | 1979 | 333578 |
| AB | 37m SW | Unspecified Tank | 1932 - 1964 | 334897 |
| Y | 37m NW | Tanks | 1964 - 1999 | 337416 |
| Y | 38m NW | Tanks | 1964 - 1999 | 334381 |
| T | 40m SE | Unspecified Tank | 1996 - 1999 | 337179 |
| T | 41m SE | Unspecified Tank | 1979 | 336701 |
| C | 43m N | Tanks | 1996 - 1999 | 336171 |
| 20 | 47m W | Unspecified Tank | 1996 - 1999 | 337372 |
| AC | 49m NE | Tanks | 1996 - 1999 | 334454 |
| AC | 51m NE | Tanks | 1969 - 1979 | 335840 |
| AC | 51m NE | Tanks | 1971 | 334581 |
| W | 54m W | Unspecified Tank | 1964 - 1979 | 337141 |
| W | 57m W | Unspecified Tank | 1996 - 1999 | 334682 |
| Z | 60m NE | Tanks | 1982 | 336429 |
| Z | 62m NE | Tanks | 1964 - 1988 | 334957 |
| Z | 68m NE | Unspecified Tank | 1982 | 336655 |
| C | 69m NW | Tanks | 1969 - 1979 | 333896 |
| Z | 69m NE | Unspecified Tank | 1964 - 1988 | 335529 |
| C | 72m N | Tanks | 1971 | 332457 |
| AB | 75m SW | Tanks | 1972 - 1996 | 333995 |
| AB | 75m SW | Unspecified Tank | 1996 | 336036 |
| AB | 76m SW | Unspecified Tank | 1972 - 1988 | 337443 |
| C | 77m N | Unspecified Tank | 1979 | 333604 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| Y | 79m NW | Tanks | 1969 - 1979 | 334936 |
| Z | 81m NE | Tanks | 1964 - 1988 | 335543 |
| AB | 81m SW | Unspecified Tank | 1996 | 335692 |
| 23 | 82m N | Tanks | 1969 - 1979 | 337100 |
| C | 83m N | Tanks | 1971 | 332458 |
| AB | 83m SW | Unspecified Tank | 1972 - 1988 | 336287 |
| AB | 84m SW | Unspecified Tank | 1982 | 337343 |
| AF | 87m NW | Unspecified Tank | 1969 - 1979 | 336722 |
| Z | 89m NE | Unspecified Tank | 1972 - 1988 | 333953 |
| Z | 92m NE | Unspecified Tank | 1996 | 337352 |
| Z | 94m NE | Tanks | 1982 - 1996 | 335829 |
| C | 94m NW | Tanks | 1964 - 1979 | 337194 |
| C | 96m NW | Tanks | 1996 - 1999 | 334281 |
| Z | 100m NE | Tanks | 1982 | 335897 |
| G | 102m NE | Unspecified Tank | 1988 - 1996 | 337611 |
| AI | 102m N | Tanks | 1979 | 337568 |
| Z | 102m NE | Tanks | 1972 - 1996 | 336544 |
| AI | 103m N | Tanks | 1971 | 334758 |
| AI | 104m N | Tanks | 1971 | 337223 |
| AA | 110m NE | Tanks | 1996 - 1999 | 333930 |
| AA | 112m NE | Tanks | 1996 - 1999 | 336080 |
| AA | 112m NE | Tanks | 1969 - 1979 | 335591 |
| AA | 112m NE | Tanks | 1971 | 335816 |
| AJ | 116m NE | Unspecified Tank | 1996 | 333582 |
| 25 | 119m NW | Tanks | 1969 - 1999 | 335947 |
| C | 121m W | Tanks | 1979 | 332452 |
| G | 121m NE | Tanks | 1964 | 332455 |
| 26 | 126m NW | Tanks | 1964 - 1999 | 333894 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| C | 128m N | Unspecified Tank | 1996 - 1999 | 335159 |
| C | 129m NW | Tanks | 1982 - 1988 | 336316 |
| C | 130m NW | Unspecified Tank | 1996 | 333602 |
| C | 131m N | Unspecified Tank | 1979 | 335659 |
| C | 133m N | Tanks | 1996 - 1999 | 335523 |
| D | 134m NE | Unspecified Tank | 1982 | 337601 |
| C | 135m N | Tanks | 1971 | 335587 |
| C | 135m N | Tanks | 1979 | 335506 |
| D | 136m NE | Unspecified Tank | 1972 - 1988 | 337186 |
| AL | 138m NW | Unspecified Tank | 1969 - 1979 | 335345 |
| AL | 140m NW | Tanks | 1971 - 1999 | 336511 |
| AJ | 142m NE | Unspecified Tank | 1996 | 333581 |
| AJ | 142m NE | Tanks | 1996 - 1999 | 336106 |
| AJ | 142m NE | Tanks | 1971 | 333862 |
| AJ | 142m NE | Tanks | 1969 - 1979 | 334442 |
| C | 146m N | Tanks | 1969 - 1979 | 335998 |
| C | 146m N | Tanks | 1971 | 336752 |
| AA | 151m NE | Unspecified Tank | 1969 - 1979 | 334502 |
| AA | 151m NE | Unspecified Tank | 1971 - 1999 | 337671 |
| C | 155m N | Tanks | 1979 | 332453 |
| C | 155m W | Unspecified Tank | 1969 | 333605 |
| G | 158m NE | Unspecified Tank | 1972 - 1988 | 335460 |
| G | 159m NE | Unspecified Tank | 1996 | 335209 |
| AN | 159m NW | Tanks | 1964 - 1999 | 334739 |
| AN | 159m NW | Tanks | 1969 | 337295 |
| C | 160m N | Tanks | 1971 | 332456 |
| C | 161m N | Unspecified Tank | 1979 | 333603 |
| P | 161m N | Tanks | 1969 - 1979 | 337409 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| C | 162m NW | Tanks | 1969 - 1979 | 334684 |
| C | 162m NW | Tanks | 1971 | 337157 |
| P | 163m N | Tanks | 1971 | 336041 |
| C | 168m NW | Tanks | 1969 - 1979 | 335836 |
| G | 169m NE | Tanks | 1982 | 336680 |
| G | 171m NE | Tanks | 1964 - 1996 | 337032 |
| C | 172m W | Tanks | 1969 - 1979 | 335484 |
| C | 173m W | Tanks | 1964 - 1999 | 335827 |
| C | 177m NW | Tanks | 1969 - 1979 | 335732 |
| C | 184m N | Unspecified Tank | 1971 - 1979 | 334959 |
| 30 | 186m NE | Unspecified Tank | 1970 | 333577 |
| C | 202m N | Unspecified Tank | 1996 - 1999 | 334173 |
| O | 204m SW | Unspecified Tank | 1964 - 1970 | 333968 |
| AR | 205m N | Tanks | 1996 - 1999 | 336504 |
| C | 206m N | Unspecified Tank | 1979 | 336936 |
| AR | 207m N | Unspecified Tank | 1979 | 333589 |
| AR | 207m N | Tanks | 1971 | 336952 |
| C | 224m N | Unspecified Tank | 1969 - 1979 | 336128 |
| O | 226m SW | Unspecified Tank | 1964 - 1970 | 336496 |
| AS | 246m NW | Tanks | 1969 - 1999 | 337102 |
| O | 247m SW | Unspecified Tank | 1964 - 1970 | 336984 |
| AS | 248m NW | Tanks | 1964 - 1971 | 335561 |
| AS | 256m NW | Tanks | 1996 - 1999 | 337282 |
| AS | 261m W | Unspecified Tank | 1964 - 1970 | 335507 |
| AU | 261m N | Unspecified Tank | 1969 - 1979 | 336190 |
| AU | 261m N | Tanks | 1996 - 1999 | 335948 |
| AU | 263m N | Tanks | 1971 | 335959 |
| O | 274m SW | Unspecified Tank | 1964 - 1970 | 336323 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AQ | 279m SW | Unspecified Tank | 1964 | 335593 |
| AS | 281m NW | Unspecified Tank | 1979 | 335907 |
| AQ | 281m SW | Unspecified Tank | 1978 | 334802 |
| AS | 282m NW | Unspecified Tank | 1964 - 1971 | 334939 |
| AS | 282m NW | Tanks | 1996 - 1999 | 336007 |
| O | 295m SW | Unspecified Tank | 1964 - 1970 | 337196 |
| AQ | 304m SW | Tanks | 1978 - 1996 | 335683 |
| N | 305m W | Tanks | 1970 | 332377 |
| O | 324m SW | Unspecified Tank | 1964 - 1970 | 334183 |
| O | 344m SW | Unspecified Tank | 1964 - 1970 | 335618 |
| N | 348m W | Tanks | 1970 | 332378 |
| BE | 367m W | Tanks | 1964 - 1970 | 337645 |
| AV | 368m SE | Tanks | 1996 | 332462 |
| 41 | 388m NW | Tanks | 1996 - 1999 | 334918 |
| AV | 411m SE | Tanks | 1996 | 332461 |
| 43 | 415m SE | Tanks | 1996 | 332463 |
| F | 418m W | Tanks | 1964 - 1970 | 336043 |
| F | 442m W | Unspecified Tank | 1970 | 333590 |
| 45 | 443m NW | Tanks | 1996 | 332454 |
| BI | 464m NW | Tanks | 1972 - 1982 | 336172 |
| 49 | 491m NE | Unspecified Tank | 1970 | 333452 |
| BL | 497m NE | Unspecified Tank | 1985 - 1996 | 336035 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.3 Historical energy features

| Records within 500m | 26 |
|---|---|

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 13**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| S | 13m E | Electricity Substation | 1996 - 1999 | 219734 |
| S | 13m E | Electricity Substation | 1971 | 218011 |
| S | 15m E | Electricity Substation | 1969 - 1979 | 219598 |
| U | 23m NW | Electricity Substation | 1996 | 219945 |
| U | 23m NW | Electricity Substation | 1972 - 1988 | 219652 |
| AE | 60m S | Electricity Substation | 1979 | 218013 |
| AE | 60m S | Electricity Substation | 1969 | 218265 |
| AE | 61m S | Electricity Substation | 1971 | 219925 |
| AE | 63m S | Electricity Substation | 1996 - 1999 | 220061 |
| AB | 89m SW | Electricity Substation | 1982 | 217807 |
| AB | 94m SW | Electricity Substation | 1972 - 1996 | 218952 |
| AB | 94m SW | Electricity Substation | 1996 - 1999 | 219202 |
| G | 116m NE | Electricity Substation | 1972 | 217803 |
| G | 122m NE | Electricity Substation | 1982 | 218493 |
| G | 125m NE | Electricity Substation | 1988 | 219709 |
| Z | 140m NE | Electricity Substation | 1972 - 1996 | 220031 |
| AM | 198m W | Electricity Substation | 1969 - 1985 | 219914 |
| AM | 201m W | Electricity Substation | 1985 | 219769 |
| AY | 290m NE | Electricity Substation | 1982 | 219274 |
| AY | 292m NE | Electricity Substation | 1972 - 1996 | 220527 |
| BD | 359m SW | Electricity Substation | 1972 - 1996 | 219778 |
| BD | 362m SW | Electricity Substation | 1982 | 219337 |
| 42 | 398m W | Electricity Substation | 1988 | 217802 |
| BG | 437m SW | Electricity Transformer Station | 1985 | 217909 |
| BG | 462m SW | Electricity Substation | 1969 | 217808 |
| BG | 478m SW | Electricity Substation | 1985 | 219647 |

*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 | 6 |
|---|---|

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'.

Features are displayed on the Past land use map on **page 13**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| AB | 70m SW | Wagon Repair Shed | 1996 | 66950 |
| AB | 72m SW | Wagon Repair Shed | 1972 - 1988 | 67716 |
| AB | 73m SW | Wagon Repair Shed | 1982 | 66798 |
| BF | 392m SW | Garage | 1982 | 67318 |
| BF | 407m SW | Garage | 1996 | 67161 |
| BF | 409m SW | Garage | 1964 - 1988 | 67659 |

*This data is sourced from Ordnance Survey / Groundsure.*

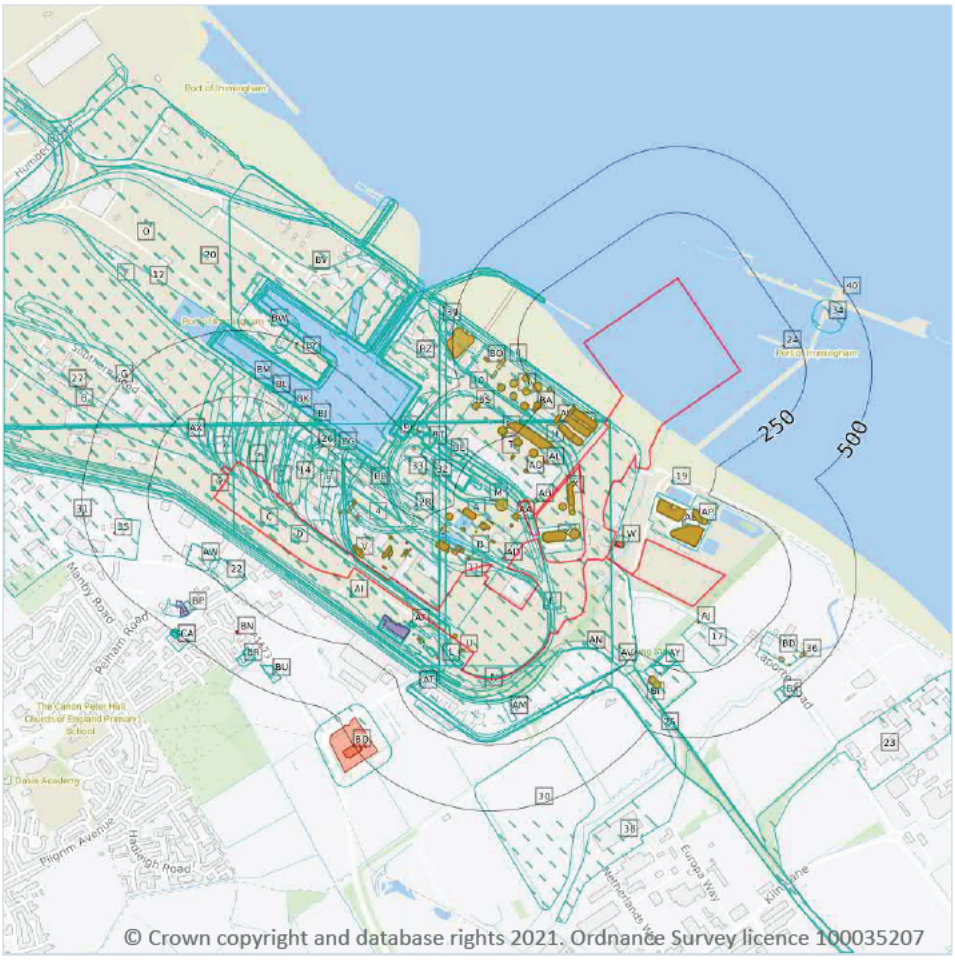
## 1.6 Historical military land

| 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

Historical garages

## 2.1 Historical industrial land uses

| Records within 500m | 303 |
|---|---|

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 31**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| 1 | On site | Railway Building | 1886 | 1988105 |
| 2 | On site | Dock | 1968 | 1991633 |
| 3 | On site | Railway Sidings | 1938 | 1996271 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| 4 | On site | Unspecified Works | 1974 | 1989983 |
| 5 | On site | Railway Sidings | 1974 | 1997693 |
| 6 | On site | Unspecified Pit | 1983 | 1985448 |
| 7 | On site | Unspecified Pit | 1983 | 1985449 |
| 8 | On site | Railway Sidings | 1968 | 1989968 |
| 9 | On site | Unspecified Ground Workings | 1968 | 1986039 |
| 10 | On site | Railway Sidings | 1952 | 2002225 |
| 11 | On site | Unspecified Commercial/Industrial | 1952 | 1988561 |
| 12 | On site | Railway Sidings | 1947 | 1996271 |
| A | On site | Chemical Works | 1972 | 1986395 |
| A | On site | Railway Sidings | 1952 | 2002225 |
| A | On site | Railway Sidings | 1947 | 1996271 |
| A | On site | Dock Station | 1947 | 1988304 |
| B | On site | Railway Sidings | 1886 | 2002225 |
| C | On site | Railway Building | 1886 | 1990925 |
| C | On site | Railway Building | 1886 | 1988129 |
| C | On site | Railway Building | 1886 | 1988130 |
| C | On site | Railway Building | 1886 | 1988128 |
| C | On site | Railway Building | 1930 | 1994710 |
| C | On site | Railway Buildings | 1930 | 1987784 |
| C | On site | Railway Building | 1974 | 2000775 |
| C | On site | Railway Building | 1968 | 2000775 |
| D | On site | Railway Building | 1886 | 1988127 |
| D | On site | Railway Building | 1886 | 1988126 |
| D | On site | Railway Buildings | 1930 | 1987786 |
| E | On site | Railway Building | 1886 | 1997876 |
| E | On site | Railway Building | 1930 | 1990801 |
| F | On site | Docks | 1974 | 2000478 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| F | On site | Docks | 1983 | 2000478 |
| G | On site | Docks | 1951 | 2001133 |
| G | On site | Railway Sidings | 1983 | 1997697 |
| G | On site | Railway Sidings | 1951 | 2002225 |
| H | On site | Railway Sidings | 1938 | 1996271 |
| H | On site | Railway Sidings | 1930 | 2002225 |
| I | On site | Railway Sidings | 1930 | 2002225 |
| I | On site | Unspecified Works | 1983 | 1990088 |
| J | On site | Unspecified Dock | 1930 | 1987275 |
| J | On site | Railway Sidings | 1930 | 2002225 |
| J | On site | Unspecified Works | 1968 | 1995147 |
| K | On site | Oil Storage Depot | 1972 | 1985618 |
| L | On site | Railway Sidings | 1972 | 1997693 |
| L | On site | Railway Sidings | 1952 | 2002225 |
| M | On site | Railway Sidings | 1972 | 1998119 |
| N | On site | Railway Sidings | 1988 | 2001980 |
| N | On site | Railway Sidings | 1980 | 2001980 |
| N | On site | Railway Sidings | 1968 | 1990941 |
| N | On site | Railway Sidings | 1965 | 1990941 |
| O | On site | Dock | 1947 | 2001356 |
| O | On site | Unspecified Commercial/Industrial | 1947 | 1996371 |
| O | On site | Dock | 1947 | 2001356 |
| P | On site | Graving Dock | 1947 | 1990013 |
| P | On site | Graving Dock | 1947 | 1990012 |
| 13 | 0m N | Unspecified Pit | 1983 | 1985450 |
| R | 0m NW | Railway Sidings | 1930 | 2001785 |
| S | 3m W | Oil Storage Depots | 1972 | 1987276 |
| 14 | 6m E | Cuttings | 1968 | 1986343 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| T | 8m NE | Chemical Works | 1972 | 1986394 |
| U | 10m SW | Unspecified Tank | 1972 | 1986777 |
| U | 10m NW | Railway Building | 1886 | 1993872 |
| U | 10m NW | Railway Building | 1930 | 1997632 |
| V | 11m NE | Unspecified Tanks | 1974 | 1999292 |
| V | 11m NE | Unspecified Tanks | 1983 | 1999292 |
| K | 11m E | Unspecified Tanks | 1972 | 1987645 |
| X | 13m SE | Unspecified Tanks | 1972 | 1987649 |
| H | 14m NW | Railway Sidings | 1972 | 2002243 |
| 15 | 15m NE | Unspecified Ground Workings | 1968 | 1986040 |
| Y | 15m NW | Railway Building | 1886 | 1996883 |
| Y | 16m NW | Railway Building | 1930 | 1990476 |
| W | 17m E | Electricity Substation | 1972 | 1989876 |
| 16 | 18m SW | Railway Building | 1983 | 1988131 |
| Y | 21m NW | Railway Building | 1968 | 1991999 |
| AA | 24m W | Unspecified Tank | 1972 | 1986771 |
| AB | 25m NE | Unspecified Tank | 1972 | 1986772 |
| V | 26m NE | Unspecified Tank | 1968 | 1986778 |
| AC | 30m W | Unspecified Tanks | 1972 | 1987655 |
| AE | 37m NE | Oil Storage Depot | 1972 | 1985617 |
| AF | 39m SW | Railway Building | 1968 | 1996909 |
| AF | 40m SW | Unspecified Heap | 1886 | 1998969 |
| AF | 42m SW | Railway Building | 1974 | 1996909 |
| AF | 42m SW | Railway Building | 1983 | 1996909 |
| AF | 42m SW | Unspecified Heap | 1930 | 1991499 |
| AF | 45m SW | Unspecified Pit | 1886 | 1995573 |
| AF | 45m SW | Unspecified Pit | 1930 | 1992558 |
| AF | 45m SW | Railway Building | 1886 | 1992284 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AF | 45m SW | Railway Building | 1930 | 1999716 |
| AF | 49m SW | Unspecified Pit | 1965 | 1994484 |
| AH | 52m NE | Unspecified Tanks | 1972 | 1987644 |
| 17 | 52m S | Unspecified Warehouse | 1972 | 1985834 |
| M | 53m NW | Unspecified Commercial/Industrial | 1952 | 1988560 |
| AA | 55m W | Unspecified Tank | 1972 | 1986770 |
| 18 | 56m S | Railway Building | 1930 | 1988108 |
| B | 58m NE | Unspecified Tanks | 1974 | 2001516 |
| B | 58m NE | Unspecified Tanks | 1983 | 2001516 |
| AI | 59m S | Railway Building | 1968 | 1995013 |
| B | 61m NE | Unspecified Tanks | 1968 | 1992736 |
| AI | 62m S | Railway Building | 1886 | 1999989 |
| AI | 63m S | Railway Building | 1974 | 2000153 |
| AI | 63m S | Railway Building | 1983 | 2000153 |
| AF | 70m SW | Engine Shed | 1968 | 1998726 |
| M | 70m NW | Unspecified Stores | 1930 | 1988320 |
| AF | 70m SW | Engine Shed | 1930 | 1998285 |
| AF | 70m SW | Engine Shed | 1938 | 1998339 |
| M | 71m NW | Railway Building | 1886 | 1988107 |
| AF | 72m SW | Railway Building | 1974 | 1990703 |
| AF | 72m SW | Railway Building | 1983 | 1990703 |
| AF | 72m SW | Railway Building | 1930 | 1995428 |
| A | 73m N | Unspecified Tanks | 1972 | 1987668 |
| AF | 73m SW | Railway Building | 1886 | 1999211 |
| AF | 73m SW | Railway Building | 1930 | 1998179 |
| AF | 73m SW | Railway Buildings | 1930 | 1987782 |
| AF | 73m SW | Engine Shed | 1886 | 1995844 |
| AF | 73m SW | Railway Building | 1886 | 1998612 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AF | 73m SW | Engine Shed | 1930 | 1995767 |
| AF | 74m SW | Railway Building | 1886 | 1988119 |
| AF | 75m SW | Railway Building | 1886 | 1988121 |
| AF | 75m SW | Engine Shed | 1947 | 1995039 |
| AF | 76m SW | Engine Shed | 1951 | 1994299 |
| AF | 78m SW | Railway Building | 1968 | 1988122 |
| AF | 83m SW | Railway Buildings | 1974 | 1991560 |
| AF | 83m SW | Railway Buildings | 1983 | 1991560 |
| AF | 83m SW | Railway Building | 1886 | 1988120 |
| AF | 87m W | Unspecified Pit | 1951 | 2001951 |
| AL | 88m NW | Unspecified Tanks | 1972 | 1987650 |
| AF | 90m W | Unspecified Pit | 1951 | 1985447 |
| AM | 93m S | Pump House | 1988 | 1987309 |
| AN | 95m S | Unspecified Heap | 1886 | 1993022 |
| AN | 95m S | Unspecified Heap | 1930 | 1991927 |
| A | 96m NW | Unspecified Tanks | 1972 | 1993176 |
| AN | 97m SE | Unspecified Heap | 1938 | 1998111 |
| 19 | 101m SE | Unspecified Tank | 1972 | 1986765 |
| M | 102m NW | Store | 1938 | 1985846 |
| M | 103m NW | Railway Building | 1886 | 1988097 |
| M | 104m NW | Unspecified Store | 1930 | 1989622 |
| AE | 111m NE | Unspecified Tanks | 1972 | 1987648 |
| I | 114m NE | Electric Substation | 1983 | 1988659 |
| AF | 114m W | Railway Building | 1974 | 1995273 |
| AF | 114m W | Railway Building | 1983 | 1996991 |
| M | 117m W | Railway Building | 1886 | 1988106 |
| A | 119m NW | Unspecified Tanks | 1952 | 1990419 |
| I | 121m NE | Unspecified Tanks | 1968 | 1987667 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AF | 129m SW | Railway Building | 1930 | 1996594 |
| AF | 131m SW | Railway Building | 1886 | 1991312 |
| A | 134m NW | Unspecified Tank | 1974 | 1990483 |
| A | 134m NW | Unspecified Tank | 1983 | 1990483 |
| A | 136m N | Unspecified Tanks | 1972 | 1987646 |
| 20 | 137m N | Dock | 1930 | 1989992 |
| 21 | 137m N | Railway Sidings | 1930 | 2002225 |
| A | 137m NW | Unspecified Tank | 1968 | 1990483 |
| AS | 141m NW | Unspecified Tanks | 1972 | 1987654 |
| AT | 142m W | Gas Valve Compound | 1985 | 1987519 |
| AP | 144m NE | Unspecified Tanks | 1972 | 1987643 |
| M | 155m NW | Railway Building | 1938 | 1995974 |
| M | 155m NW | Wool Shed | 1930 | 1995430 |
| I | 157m NE | Unspecified Tank | 1974 | 1999892 |
| I | 157m NE | Unspecified Tank | 1983 | 1999892 |
| M | 158m NW | Railway Building | 1886 | 1998466 |
| AU | 160m NW | Unspecified Tank | 1972 | 1986764 |
| AM | 162m SW | Railway Sidings | 1930 | 2000070 |
| 22 | 164m SW | Unspecified Works | 1983 | 1986961 |
| AV | 164m SE | Railway Sidings | 1947 | 1995520 |
| AV | 164m SE | Railway Sidings | 1930 | 2000438 |
| A | 170m N | Unspecified Tank | 1972 | 1986768 |
| A | 172m W | Unspecified Tanks | 1972 | 1987647 |
| AW | 174m SW | Unspecified Depot | 1974 | 1991240 |
| AW | 174m SW | Unspecified Depot | 1983 | 1991240 |
| AX | 183m NW | Railway Building | 1930 | 1999406 |
| AX | 183m NW | Railway Building | 1886 | 1991389 |
| 23 | 185m SE | Railway Sidings | 1965 | 2001368 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| A | 185m N | Unspecified Tank | 1972 | 1986769 |
| AT | 187m W | Pumping Station | 1985 | 1988720 |
| AY | 193m SW | Sewage Works | 1972 | 2001007 |
| AY | 195m SW | Sewage Works | 1952 | 1995136 |
| M | 196m NW | Railway Building | 1886 | 1988096 |
| 25 | 197m SE | Railway Sidings | 1968 | 2002139 |
| AY | 198m SW | Sewage Works | 1947 | 1996629 |
| AY | 198m SW | Sewage Works | 1947 | 1996629 |
| AY | 201m SW | Sewage Works | 1947 | 1996629 |
| AY | 201m SW | Sewage Works | 1930 | 1996629 |
| S | 203m SW | Unspecified Tank | 1972 | 1986767 |
| M | 204m NW | Wool Shed | 1947 | 1994081 |
| 26 | 204m NE | Unspecified Heap | 1974 | 1989551 |
| M | 205m NW | Wool Shed | 1952 | 1997648 |
| AZ | 206m N | Unspecified Tanks | 1972 | 1987653 |
| P | 207m NW | Railway Sidings | 1930 | 2002225 |
| M | 208m NW | Wool Sheds | 1886 | 1989616 |
| M | 208m NW | Wool Shed | 1938 | 1994081 |
| M | 209m NW | Wool Shed | 1930 | 1994081 |
| M | 210m NW | Unspecified Warehouse | 1972 | 1985837 |
| S | 224m SW | Unspecified Tanks | 1972 | 1987657 |
| 27 | 227m NW | Railway Sidings | 1930 | 2002225 |
| AY | 231m S | Sewage Works | 1988 | 1990902 |
| AY | 231m S | Sewage Works | 1980 | 1990902 |
| AY | 243m S | Unspecified Works | 1968 | 1986962 |
| S | 244m SW | Unspecified Tanks | 1972 | 1987658 |
| BA | 247m W | Unspecified Tanks | 1972 | 1987656 |
| M | 248m NW | Railway Building | 1886 | 1988098 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BB | 258m NE | Railway Building | 1886 | 1988095 |
| BB | 258m NE | Railway Building | 1886 | 1988125 |
| BC | 262m N | Unspecified Tanks | 1972 | 1987651 |
| BD | 265m SE | Chemicals Works | 1972 | 1988693 |
| BB | 266m NE | Railway Building | 1886 | 1988124 |
| BE | 269m NW | Store | 1938 | 1985845 |
| BE | 270m NW | Unspecified Store | 1930 | 1989621 |
| 28 | 270m N | Railway Building | 1886 | 1988123 |
| BF | 272m NE | Dock | 1886 | 1997151 |
| BG | 273m NE | Railway Building | 1930 | 1991061 |
| 29 | 275m NW | Railway Sidings | 1972 | 1998118 |
| BG | 275m NE | Railway Building | 1886 | 1990971 |
| BH | 276m NE | Railway Building | 1886 | 1988100 |
| 30 | 279m SE | Gypsum Disposal Bed | 1965 | 1988843 |
| BH | 279m NE | Hydraulic Accumulator | 1930 | 1987705 |
| BA | 282m NW | Unspecified Tank | 1972 | 1986766 |
| BI | 288m SE | Railway Sidings | 1947 | 1994854 |
| BI | 288m SE | Railway Sidings | 1930 | 1995111 |
| BH | 291m NE | Railway Building | 1886 | 1988099 |
| 31 | 292m W | Industrial Estate | 1983 | 1987811 |
| S | 293m SW | Unspecified Tanks | 1972 | 1987659 |
| BJ | 294m NE | Coal Hoists | 1930 | 1990166 |
| BK | 294m NE | Coal Hoists | 1930 | 1997014 |
| BL | 297m NE | Coal Hoists | 1930 | 1993263 |
| BK | 297m NE | Coal Hoists | 1951 | 1999608 |
| BK | 297m NE | Coal Hoists | 1947 | 1997014 |
| BJ | 297m NE | Coal Hoists | 1951 | 1999441 |
| BL | 299m NE | Coal Hoists | 1947 | 1993263 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BK | 299m NE | Coal Hoists | 1968 | 1994185 |
| BL | 299m NE | Coal Hoists | 1983 | 1998537 |
| BF | 299m NE | Dock | 1930 | 1989993 |
| BJ | 300m NE | Coal Hoists | 1947 | 2000046 |
| BK | 300m NE | Coal Hoist | 1974 | 1988337 |
| BG | 302m NE | Coal Hoists | 1947 | 1988470 |
| BL | 302m NE | Coal Hoists | 1951 | 1992941 |
| BL | 303m NE | Coal Hoists | 1974 | 1990872 |
| BL | 303m NE | Coal Hoists | 1968 | 1997561 |
| AY | 308m SW | Unspecified Tank | 1988 | 1995784 |
| AY | 308m SW | Unspecified Tank | 1980 | 1995784 |
| 32 | 314m W | Railway Sidings | 1968 | 1998608 |
| AY | 319m SW | Unspecified Tank | 1988 | 2001820 |
| AY | 319m SW | Unspecified Tank | 1980 | 2001820 |
| S | 322m SW | Unspecified Tanks | 1972 | 1987652 |
| BM | 326m N | Coal Hoists | 1947 | 1998338 |
| 33 | 327m NE | Railway Buildings | 1886 | 1987783 |
| BM | 327m N | Coal Hoists | 1930 | 1998338 |
| BM | 330m N | Coal Hoists | 1983 | 1995341 |
| BM | 331m N | Coal Hoists | 1951 | 1998338 |
| 34 | 332m NE | Oil Terminal | 1972 | 1988737 |
| BM | 333m N | Coal Hoists | 1974 | 2000598 |
| BM | 333m N | Coal Hoists | 1968 | 2000877 |
| S | 342m SW | Unspecified Tanks | 1972 | 1987660 |
| R | 346m W | Unspecified Tanks | 1972 | 1987661 |
| BO | 364m W | Unspecified Tanks | 1972 | 1987662 |
| P | 372m W | Unspecified Commercial/Industrial | 1952 | 1995702 |
| G | 378m N | Coal Hoists | 1947 | 1990427 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BP | 378m SW | Telephone Exchange | 1930 | 1989254 |
| G | 379m N | Coal Hoists | 1930 | 1998863 |
| G | 382m N | Coal Hoists | 1951 | 1993350 |
| BQ | 385m SW | Transforming Station | 1976 | 1988485 |
| BR | 386m SW | Hospital | 1968 | 1996162 |
| BR | 388m SW | Hospital | 1974 | 1991920 |
| BR | 388m SW | Hospital | 1983 | 1995255 |
| G | 390m N | Pump House | 1983 | 1987306 |
| BT | 393m NW | Grain Store | 1947 | 2001496 |
| BT | 395m NW | Grain Store | 1938 | 1994852 |
| BT | 396m NW | Grain Store | 1886 | 1996763 |
| BT | 396m NW | Grain Store | 1930 | 1992356 |
| BT | 396m NW | Unspecified Warehouse | 1974 | 2001034 |
| BT | 396m NW | Unspecified Warehouse | 1983 | 2001034 |
| BP | 396m SW | Telephone Exchange | 1938 | 1989255 |
| BT | 397m NW | Grain Store | 1930 | 1994852 |
| BT | 398m NW | Unspecified Warehouse | 1968 | 1998865 |
| BU | 404m SW | Unspecified Warehouse | 1968 | 1995529 |
| BU | 404m SW | Unspecified Warehouse | 1985 | 1996616 |
| BU | 404m SW | Unspecified Warehouse | 1976 | 1996727 |
| BV | 406m NE | Railway Sidings | 1947 | 1992595 |
| BV | 406m NE | Dock | 1947 | 1991148 |
| BV | 406m NE | Dock | 1947 | 1991148 |
| P | 416m W | Unspecified Tanks | 1972 | 2001633 |
| BW | 435m N | Ferry Terminal | 1974 | 2001514 |
| BW | 435m N | Ferry Terminal | 1983 | 2001514 |
| 38 | 445m S | Railway Sidings | 1988 | 1994297 |
| BX | 450m SE | Gas Valve Compound | 1988 | 1994317 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BX | 450m SE | Gas Valve Compound | 1980 | 1994317 |
| BY | 453m NE | Unspecified Depot | 1974 | 1993604 |
| BY | 453m NE | Unspecified Depot | 1983 | 1993604 |
| BZ | 461m NE | Railway Sidings | 1974 | 1998118 |
| BZ | 461m NE | Railway Sidings | 1983 | 1998118 |
| BT | 463m NE | Railway Sidings | 1938 | 1996271 |
| BT | 467m NE | Transit Shed | 1951 | 1992686 |
| BT | 467m NE | Railway Sidings | 1930 | 2002225 |
| BT | 469m NE | Transit Shed | 1886 | 1992686 |
| BT | 469m NE | Transit Shed | 1930 | 1996928 |
| BT | 471m NE | Transit Shed | 1938 | 1993949 |
| BT | 471m NE | Transit Shed | 1947 | 1991256 |
| BT | 476m NE | Transit Shed | 1930 | 1996928 |
| CA | 483m SW | Police Station | 1938 | 1990921 |
| 39 | 486m W | Unspecified Heap | 1930 | 1989547 |
| CA | 492m SW | Police Station | 1974 | 1997050 |
| CA | 492m SW | Police Station | 1983 | 1997050 |
| CA | 493m SW | Police Station | 1930 | 1994685 |
| CA | 497m SW | Police Station | 1886 | 1994664 |
| CA | 498m SW | Police Station | 1968 | 1992327 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

| Records within 500m | 289 |
|---|---|

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 31**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| **Q** | **On site** | **Unspecified Tank** | **1996** | **337064** |
| **Q** | **On site** | **Unspecified Tank** | **1999** | **337064** |
| U | 11m SW | Unspecified Tank | 1969 | 335095 |
| U | 11m SW | Unspecified Tank | 1979 | 335095 |
| U | 11m SW | Unspecified Tank | 1964 | 335095 |
| U | 11m SW | Unspecified Tank | 1971 | 335095 |
| V | 11m NE | Tanks | 1982 | 334696 |
| V | 13m NE | Tanks | 1988 | 334696 |
| V | 14m NE | Tanks | 1972 | 334458 |
| X | 15m SE | Tanks | 1996 | 336663 |
| X | 15m SE | Tanks | 1999 | 336663 |
| K | 15m E | Tanks | 1971 | 334889 |
| X | 15m SE | Unspecified Tank | 1971 | 333579 |
| X | 15m SE | Tanks | 1971 | 333969 |
| K | 16m SE | Tanks | 1996 | 336689 |
| K | 16m SE | Tanks | 1999 | 336689 |
| X | 17m SE | Tanks | 1969 | 334855 |
| X | 17m SE | Tanks | 1979 | 334855 |
| Z | 17m W | Unspecified Tank | 1969 | 334820 |
| Z | 17m W | Unspecified Tank | 1979 | 334820 |
| K | 18m E | Unspecified Tank | 1969 | 333588 |
| K | 18m E | Tanks | 1979 | 334358 |
| Z | 19m W | Tanks | 1971 | 332451 |
| AA | 20m W | Unspecified Tank | 1969 | 335050 |
| AA | 20m W | Unspecified Tank | 1979 | 335050 |
| AA | 22m W | Unspecified Tank | 1964 | 334816 |
| AA | 22m W | Unspecified Tank | 1971 | 334816 |
| AA | 23m W | Unspecified Tank | 1996 | 335340 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AA | 23m W | Unspecified Tank | 1999 | 335340 |
| X | 27m W | Unspecified Tank | 1979 | 333580 |
| AB | 27m NE | Unspecified Tank | 1971 | 334465 |
| AC | 27m W | Tanks | 1969 | 335824 |
| AC | 27m W | Tanks | 1979 | 335824 |
| V | 28m NE | Unspecified Tank | 1964 | 333601 |
| V | 28m NE | Unspecified Tank | 1972 | 333600 |
| B | 28m NE | Tanks | 1982 | 336348 |
| AD | 29m NW | Unspecified Tank | 1996 | 334042 |
| AD | 29m NW | Unspecified Tank | 1999 | 334042 |
| AC | 30m W | Tanks | 1964 | 334868 |
| AC | 30m W | Tanks | 1971 | 334868 |
| B | 30m NE | Tanks | 1964 | 336348 |
| B | 30m NE | Tanks | 1988 | 336348 |
| B | 30m NE | Tanks | 1972 | 336348 |
| AB | 30m NW | Unspecified Tank | 1969 | 336942 |
| AB | 30m NW | Unspecified Tank | 1979 | 336942 |
| AC | 31m W | Tanks | 1996 | 334868 |
| AC | 31m W | Tanks | 1999 | 334868 |
| AC | 36m NW | Unspecified Tank | 1979 | 333578 |
| AF | 37m SW | Unspecified Tank | 1964 | 334897 |
| AC | 37m NW | Tanks | 1996 | 337416 |
| AC | 37m NW | Tanks | 1999 | 337416 |
| AC | 38m NW | Tanks | 1996 | 334381 |
| AC | 38m NW | Tanks | 1999 | 334381 |
| AC | 38m NW | Tanks | 1964 | 337416 |
| AC | 38m NW | Tanks | 1964 | 334381 |
| AC | 38m NW | Tanks | 1971 | 337416 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AC | 38m NW | Tanks | 1971 | 334381 |
| X | 40m SE | Unspecified Tank | 1996 | 337179 |
| X | 40m SE | Unspecified Tank | 1999 | 337179 |
| AF | 40m SW | Unspecified Tank | 1932 | 334897 |
| X | 41m SE | Unspecified Tank | 1979 | 336701 |
| A | 43m N | Tanks | 1996 | 336171 |
| A | 43m N | Tanks | 1999 | 336171 |
| AG | 47m W | Unspecified Tank | 1996 | 337372 |
| AG | 47m W | Unspecified Tank | 1999 | 337372 |
| AH | 49m NE | Tanks | 1996 | 334454 |
| AH | 49m NE | Tanks | 1999 | 334454 |
| AH | 51m NE | Tanks | 1969 | 335840 |
| AH | 51m NE | Tanks | 1979 | 335840 |
| AH | 51m NE | Tanks | 1971 | 334581 |
| AA | 54m W | Unspecified Tank | 1969 | 337141 |
| AA | 54m W | Unspecified Tank | 1979 | 337141 |
| AA | 57m W | Unspecified Tank | 1996 | 334682 |
| AA | 57m W | Unspecified Tank | 1999 | 334682 |
| AA | 57m W | Unspecified Tank | 1964 | 337141 |
| AA | 57m W | Unspecified Tank | 1971 | 337141 |
| B | 60m NE | Tanks | 1982 | 336429 |
| B | 62m NE | Tanks | 1964 | 334957 |
| B | 62m NE | Tanks | 1988 | 334957 |
| B | 62m NE | Tanks | 1972 | 334957 |
| B | 68m NE | Unspecified Tank | 1982 | 336655 |
| A | 69m NW | Tanks | 1969 | 333896 |
| A | 69m NW | Tanks | 1979 | 333896 |
| B | 69m NE | Unspecified Tank | 1964 | 335529 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| B | 69m NE | Unspecified Tank | 1988 | 335529 |
| B | 69m NE | Unspecified Tank | 1972 | 335529 |
| A | 72m N | Tanks | 1971 | 332457 |
| AF | 75m SW | Tanks | 1996 | 333995 |
| AF | 75m SW | Tanks | 1982 | 333995 |
| AF | 75m SW | Unspecified Tank | 1996 | 336036 |
| AF | 76m SW | Tanks | 1988 | 333995 |
| AF | 76m SW | Tanks | 1972 | 333995 |
| AF | 76m SW | Unspecified Tank | 1988 | 337443 |
| AF | 76m SW | Unspecified Tank | 1972 | 337443 |
| A | 77m N | Unspecified Tank | 1979 | 333604 |
| AF | 77m SW | Unspecified Tank | 1982 | 337443 |
| AC | 79m NW | Tanks | 1969 | 334936 |
| AC | 79m NW | Tanks | 1979 | 334936 |
| B | 81m NE | Tanks | 1964 | 335543 |
| B | 81m NE | Tanks | 1988 | 335543 |
| B | 81m NE | Tanks | 1972 | 335543 |
| AF | 81m SW | Unspecified Tank | 1996 | 335692 |
| AK | 82m N | Tanks | 1971 | 337100 |
| AK | 83m N | Tanks | 1969 | 337100 |
| AK | 83m N | Tanks | 1979 | 337100 |
| A | 83m N | Tanks | 1971 | 332458 |
| AF | 83m SW | Unspecified Tank | 1988 | 336287 |
| AF | 83m SW | Unspecified Tank | 1972 | 336287 |
| AF | 84m SW | Unspecified Tank | 1982 | 337343 |
| AL | 87m NW | Unspecified Tank | 1969 | 336722 |
| AL | 87m NW | Unspecified Tank | 1979 | 336722 |
| AL | 89m NW | Unspecified Tank | 1971 | 336722 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| B | 89m NE | Unspecified Tank | 1982 | 333953 |
| B | 91m NE | Unspecified Tank | 1988 | 333953 |
| B | 91m NE | Unspecified Tank | 1972 | 333953 |
| B | 92m NE | Unspecified Tank | 1996 | 337352 |
| B | 94m NE | Tanks | 1982 | 335829 |
| A | 94m NW | Tanks | 1969 | 337194 |
| A | 94m NW | Tanks | 1979 | 337194 |
| A | 96m NW | Tanks | 1971 | 337194 |
| A | 96m NW | Tanks | 1999 | 334281 |
| B | 100m NE | Tanks | 1982 | 335897 |
| I | 102m NE | Unspecified Tank | 1988 | 337611 |
| AO | 102m N | Tanks | 1979 | 337568 |
| B | 102m NE | Tanks | 1988 | 336544 |
| B | 102m NE | Tanks | 1972 | 336544 |
| I | 103m NE | Unspecified Tank | 1996 | 337611 |
| AO | 103m N | Tanks | 1971 | 334758 |
| A | 104m NW | Tanks | 1996 | 334281 |
| B | 104m NE | Tanks | 1996 | 336544 |
| AO | 104m N | Tanks | 1971 | 337223 |
| A | 106m NW | Tanks | 1964 | 337194 |
| AE | 110m NE | Tanks | 1996 | 333930 |
| AE | 110m NE | Tanks | 1999 | 333930 |
| AE | 112m NE | Tanks | 1996 | 336080 |
| AE | 112m NE | Tanks | 1999 | 336080 |
| AE | 112m NE | Tanks | 1969 | 335591 |
| AE | 112m NE | Tanks | 1979 | 335591 |
| AE | 112m NE | Tanks | 1971 | 335816 |
| B | 113m NE | Tanks | 1996 | 335829 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AP | 116m NE | Unspecified Tank | 1996 | 333582 |
| AQ | 119m NW | Tanks | 1969 | 335947 |
| AQ | 119m NW | Tanks | 1979 | 335947 |
| AQ | 121m NW | Tanks | 1996 | 335947 |
| AQ | 121m NW | Tanks | 1999 | 335947 |
| A | 121m W | Tanks | 1979 | 332452 |
| I | 121m NE | Tanks | 1964 | 332455 |
| AR | 126m NW | Tanks | 1964 | 333894 |
| AR | 126m NW | Tanks | 1971 | 333894 |
| AR | 127m NW | Tanks | 1996 | 333894 |
| AR | 127m NW | Tanks | 1999 | 333894 |
| A | 128m N | Unspecified Tank | 1996 | 335159 |
| A | 128m N | Unspecified Tank | 1999 | 335159 |
| A | 129m NW | Tanks | 1982 | 336316 |
| A | 129m NW | Tanks | 1964 | 337194 |
| A | 129m NW | Tanks | 1988 | 336316 |
| A | 129m NW | Tanks | 1972 | 337194 |
| A | 130m NW | Unspecified Tank | 1996 | 333602 |
| A | 131m N | Unspecified Tank | 1979 | 335659 |
| A | 133m N | Tanks | 1996 | 335523 |
| A | 133m N | Tanks | 1999 | 335523 |
| J | 134m NE | Unspecified Tank | 1982 | 337601 |
| A | 135m N | Tanks | 1971 | 335587 |
| A | 135m N | Tanks | 1979 | 335506 |
| J | 136m NE | Unspecified Tank | 1988 | 337186 |
| J | 136m NE | Unspecified Tank | 1972 | 337186 |
| AS | 138m NW | Unspecified Tank | 1969 | 335345 |
| AS | 138m NW | Unspecified Tank | 1979 | 335345 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AS | 140m NW | Tanks | 1996 | 336511 |
| AS | 140m NW | Tanks | 1999 | 336511 |
| AS | 141m NW | Tanks | 1971 | 336511 |
| AP | 142m NE | Tanks | 1996 | 336106 |
| AP | 142m NE | Unspecified Tank | 1996 | 333581 |
| AP | 142m NE | Tanks | 1999 | 336106 |
| AP | 142m NE | Tanks | 1971 | 333862 |
| AP | 142m NE | Tanks | 1969 | 334442 |
| AP | 142m NE | Tanks | 1979 | 334442 |
| A | 146m N | Tanks | 1969 | 335998 |
| A | 146m N | Tanks | 1979 | 335998 |
| A | 146m N | Tanks | 1971 | 336752 |
| AE | 151m NE | Unspecified Tank | 1969 | 334502 |
| AE | 151m NE | Unspecified Tank | 1979 | 334502 |
| AE | 151m NE | Unspecified Tank | 1996 | 337671 |
| AE | 151m NE | Unspecified Tank | 1999 | 337671 |
| AE | 151m NE | Unspecified Tank | 1971 | 337671 |
| A | 155m N | Tanks | 1979 | 332453 |
| A | 155m W | Unspecified Tank | 1969 | 333605 |
| I | 158m NE | Unspecified Tank | 1982 | 335460 |
| I | 159m NE | Unspecified Tank | 1996 | 335209 |
| I | 159m NE | Unspecified Tank | 1988 | 335460 |
| I | 159m NE | Unspecified Tank | 1972 | 335460 |
| AU | 159m NW | Tanks | 1969 | 337295 |
| AU | 159m NW | Tanks | 1979 | 334739 |
| A | 160m N | Tanks | 1971 | 332456 |
| A | 161m N | Unspecified Tank | 1979 | 333603 |
| T | 161m N | Tanks | 1969 | 337409 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| T | 161m N | Tanks | 1979 | 337409 |
| AU | 162m NW | Tanks | 1964 | 334739 |
| AU | 162m NW | Tanks | 1971 | 334739 |
| A | 162m NW | Tanks | 1969 | 334684 |
| A | 162m NW | Tanks | 1979 | 334684 |
| A | 162m NW | Tanks | 1971 | 337157 |
| AU | 162m NW | Tanks | 1996 | 334739 |
| AU | 162m NW | Tanks | 1999 | 334739 |
| T | 163m N | Tanks | 1971 | 336041 |
| A | 168m NW | Tanks | 1969 | 335836 |
| A | 168m NW | Tanks | 1979 | 335836 |
| A | 169m NW | Tanks | 1971 | 335836 |
| I | 169m NE | Tanks | 1982 | 336680 |
| I | 171m NE | Tanks | 1964 | 337032 |
| I | 171m NE | Tanks | 1988 | 337032 |
| I | 171m NE | Tanks | 1972 | 337032 |
| I | 171m NE | Tanks | 1996 | 337032 |
| A | 172m W | Tanks | 1969 | 335484 |
| A | 172m W | Tanks | 1979 | 335484 |
| A | 173m W | Tanks | 1996 | 335827 |
| A | 173m W | Tanks | 1999 | 335827 |
| A | 173m W | Tanks | 1964 | 335827 |
| A | 173m W | Tanks | 1971 | 335827 |
| A | 177m NW | Tanks | 1969 | 335732 |
| A | 177m NW | Tanks | 1979 | 335732 |
| A | 184m N | Unspecified Tank | 1971 | 334959 |
| A | 184m N | Unspecified Tank | 1979 | 334959 |
| 24 | 186m NE | Unspecified Tank | 1970 | 333577 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| A | 202m N | Unspecified Tank | 1996 | 334173 |
| A | 202m N | Unspecified Tank | 1999 | 334173 |
| S | 204m SW | Unspecified Tank | 1964 | 333968 |
| S | 204m SW | Unspecified Tank | 1970 | 333968 |
| AZ | 205m N | Tanks | 1996 | 336504 |
| AZ | 205m N | Tanks | 1999 | 336504 |
| A | 206m N | Unspecified Tank | 1979 | 336936 |
| AZ | 207m N | Unspecified Tank | 1979 | 333589 |
| AZ | 207m N | Tanks | 1971 | 336952 |
| A | 224m N | Unspecified Tank | 1969 | 336128 |
| A | 224m N | Unspecified Tank | 1979 | 336128 |
| S | 226m SW | Unspecified Tank | 1964 | 336496 |
| S | 226m SW | Unspecified Tank | 1970 | 336496 |
| BA | 246m NW | Tanks | 1969 | 337102 |
| BA | 246m NW | Tanks | 1979 | 337102 |
| S | 247m SW | Unspecified Tank | 1964 | 336984 |
| S | 247m SW | Unspecified Tank | 1970 | 336984 |
| BA | 248m NW | Tanks | 1964 | 335561 |
| BA | 248m NW | Tanks | 1971 | 335561 |
| BA | 250m NW | Tanks | 1996 | 337102 |
| BA | 250m NW | Tanks | 1999 | 337102 |
| BA | 256m NW | Tanks | 1996 | 337282 |
| BA | 256m NW | Tanks | 1999 | 337282 |
| BA | 261m W | Unspecified Tank | 1964 | 335507 |
| BA | 261m W | Unspecified Tank | 1970 | 335507 |
| BC | 261m N | Unspecified Tank | 1969 | 336190 |
| BC | 261m N | Unspecified Tank | 1979 | 336190 |
| BC | 261m N | Tanks | 1996 | 335948 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BC | 261m N | Tanks | 1999 | 335948 |
| BC | 263m N | Tanks | 1971 | 335959 |
| S | 274m SW | Unspecified Tank | 1964 | 336323 |
| S | 274m SW | Unspecified Tank | 1970 | 336323 |
| AY | 279m SW | Unspecified Tank | 1964 | 335593 |
| BA | 281m NW | Unspecified Tank | 1979 | 335907 |
| AY | 281m SW | Unspecified Tank | 1978 | 334802 |
| BA | 282m NW | Unspecified Tank | 1964 | 334939 |
| BA | 282m NW | Unspecified Tank | 1971 | 334939 |
| BA | 282m NW | Tanks | 1996 | 336007 |
| BA | 282m NW | Tanks | 1999 | 336007 |
| S | 295m SW | Unspecified Tank | 1964 | 337196 |
| S | 295m SW | Unspecified Tank | 1970 | 337196 |
| AY | 304m SW | Tanks | 1996 | 335683 |
| R | 305m W | Tanks | 1970 | 332377 |
| AY | 305m SW | Tanks | 1978 | 335683 |
| S | 324m SW | Unspecified Tank | 1964 | 334183 |
| S | 324m SW | Unspecified Tank | 1970 | 334183 |
| S | 344m SW | Unspecified Tank | 1964 | 335618 |
| S | 344m SW | Unspecified Tank | 1970 | 335618 |
| R | 348m W | Tanks | 1970 | 332378 |
| BO | 367m W | Tanks | 1964 | 337645 |
| BO | 367m W | Tanks | 1970 | 337645 |
| BD | 368m SE | Tanks | 1996 | 332462 |
| BS | 388m NW | Tanks | 1996 | 334918 |
| BS | 388m NW | Tanks | 1999 | 334918 |
| BD | 411m SE | Tanks | 1996 | 332461 |
| 36 | 415m SE | Tanks | 1996 | 332463 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| P | 418m W | Tanks | 1964 | 336043 |
| P | 418m W | Tanks | 1970 | 336043 |
| P | 442m W | Unspecified Tank | 1970 | 333590 |
| 37 | 443m NW | Tanks | 1996 | 332454 |
| BT | 464m NW | Tanks | 1972 | 336172 |
| BT | 465m NW | Tanks | 1982 | 336172 |
| 40 | 491m NE | Unspecified Tank | 1970 | 333452 |
| BY | 497m NE | Unspecified Tank | 1996 | 336035 |
| BY | 499m NE | Unspecified Tank | 1985 | 336035 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

| Records within 500m | 43 |
|---|---|

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 31**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| W | 13m E | Electricity Substation | 1996 | 219734 |
| W | 13m E | Electricity Substation | 1999 | 219734 |
| W | 13m E | Electricity Substation | 1971 | 218011 |
| W | 15m E | Electricity Substation | 1969 | 219598 |
| W | 15m E | Electricity Substation | 1979 | 219598 |
| Y | 23m NW | Electricity Substation | 1996 | 219945 |
| Y | 23m NW | Electricity Substation | 1988 | 219652 |
| Y | 23m NW | Electricity Substation | 1972 | 219652 |
| Y | 24m NW | Electricity Substation | 1982 | 219652 |
| AJ | 60m S | Electricity Substation | 1969 | 218265 |
| AJ | 60m S | Electricity Substation | 1979 | 218013 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AJ | 61m S | Electricity Substation | 1971 | 219925 |
| AJ | 63m S | Electricity Substation | 1996 | 220061 |
| AJ | 63m S | Electricity Substation | 1999 | 220061 |
| AF | 89m SW | Electricity Substation | 1982 | 217807 |
| AF | 94m SW | Electricity Substation | 1996 | 218952 |
| AF | 94m SW | Electricity Substation | 1988 | 218952 |
| AF | 94m SW | Electricity Substation | 1972 | 218952 |
| AF | 94m SW | Electricity Substation | 1996 | 219202 |
| AF | 94m SW | Electricity Substation | 1999 | 219202 |
| I | 116m NE | Electricity Substation | 1972 | 217803 |
| I | 122m NE | Electricity Substation | 1982 | 218493 |
| I | 125m NE | Electricity Substation | 1988 | 219709 |
| B | 140m NE | Electricity Substation | 1982 | 220031 |
| B | 142m NE | Electricity Substation | 1988 | 220031 |
| B | 142m NE | Electricity Substation | 1972 | 220031 |
| B | 144m NE | Electricity Substation | 1996 | 220031 |
| AT | 198m W | Electricity Substation | 1985 | 219914 |
| AT | 198m W | Electricity Substation | 1969 | 219914 |
| AT | 201m W | Electricity Substation | 1985 | 219769 |
| BH | 290m NE | Electricity Substation | 1982 | 219274 |
| BH | 292m NE | Electricity Substation | 1988 | 220527 |
| BH | 292m NE | Electricity Substation | 1972 | 220527 |
| BH | 292m NE | Electricity Substation | 1996 | 220527 |
| BN | 359m SW | Electricity Substation | 1996 | 219778 |
| BN | 361m SW | Electricity Substation | 1988 | 219778 |
| BN | 361m SW | Electricity Substation | 1972 | 219778 |
| BN | 362m SW | Electricity Substation | 1982 | 219337 |
| 35 | 398m W | Electricity Substation | 1988 | 217802 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| BQ | 437m SW | Electricity Transformer Station | 1985 | 217909 |
| BQ | 462m SW | Electricity Substation | 1969 | 217808 |
| BQ | 478m SW | Electricity Substation | 1985 | 219647 |
| BQ | 481m SW | Electricity Substation | 1985 | 219647 |

*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 | 9 |
|---|---|

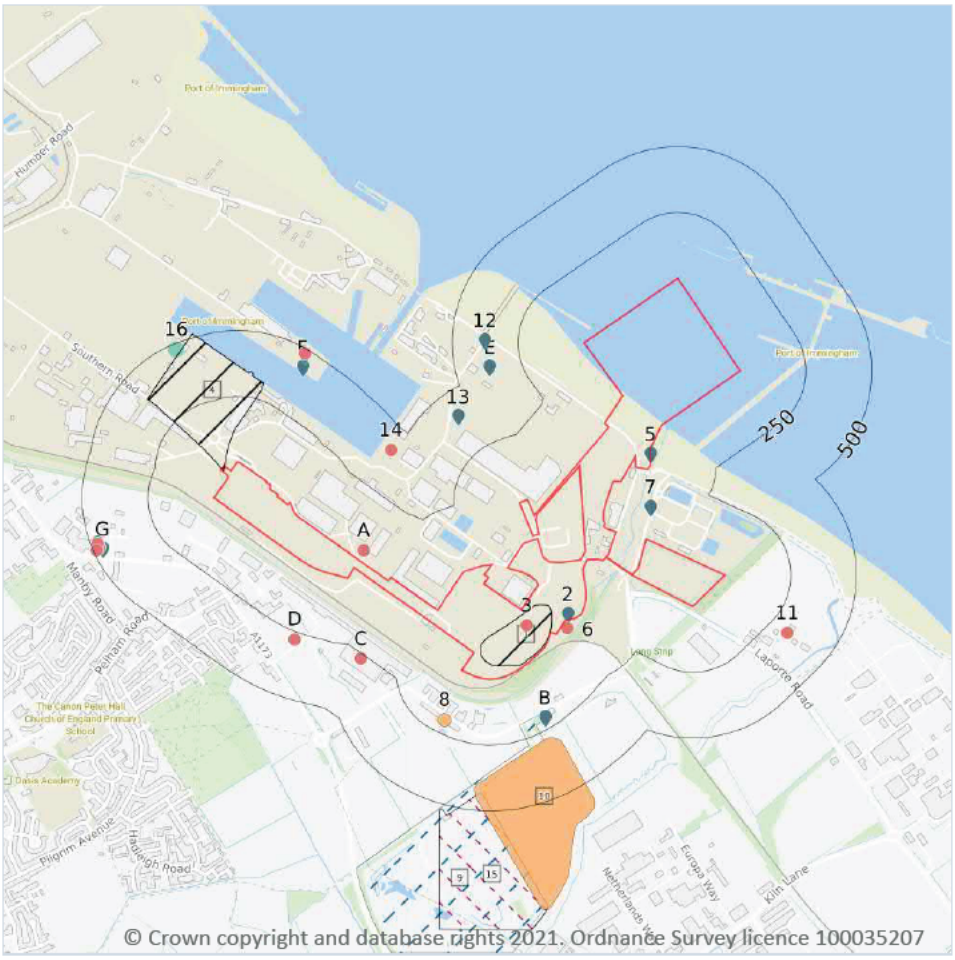
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 31**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| AF | 70m SW | Wagon Repair Shed | 1996 | 66950 |
| AF | 72m SW | Wagon Repair Shed | 1988 | 67716 |
| AF | 72m SW | Wagon Repair Shed | 1972 | 67716 |
| AF | 73m SW | Wagon Repair Shed | 1982 | 66798 |
| BP | 392m SW | Garage | 1982 | 67318 |
| BP | 407m SW | Garage | 1996 | 67161 |
| BP | 409m SW | Garage | 1964 | 67659 |
| BP | 409m SW | Garage | 1988 | 67659 |
| BP | 409m SW | Garage | 1972 | 67659 |

*This data is sourced from Ordnance Survey / Groundsure.*

# 3 Waste and landfill




Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

## 3.1 Active or recent landfill

| Records within 500m | 1 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 56**

| ID | Location | Details | |
|---|---|---|---|
| 9 | 186m SE | Operator: Integrated Waste Management Ltd<br>Site Address: Immingham Landfill, Queens Road, Immingham, Immingham, N E Lincolnshire, DN40 1QR | WML Number: 0<br>EPR Reference: -<br>Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE<br>Status: Effective<br>IPPC Reference: -<br>EPR Number: - |

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

## 3.2 Historical landfill (BGS records)

| Records within 500m | 1 |
|---|---|

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.

Features are displayed on the Waste and landfill map on **page 56**

| ID | Location | Address | BGS Number | Risk | Waste Type |
|---|---|---|---|---|---|
| 16 | 477m NW | BTDB Tip, Immingham Dock, Lincs | 1264 | No risk to aquifer | N/A |

*This data is sourced from the British Geological Survey.*

## 3.3 Historical landfill (LA/mapping records)

| Records within 500m | 1 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 56**

| ID | Location | Site address | Source | Data type |
|---|---|---|---|---|
| 15 | 432m S | Refuse Tip | 1996 mapping | Polygon |

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

## 3.4 Historical landfill (EA/NRW records)

| Records within 500m | 2 |
|---|---|

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 56**

| ID | Location | Details | | |
|---|---|---|---|---|
| 1 | On site | Site Address: Dock South East, Immingham<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: 55/00/0062, 2000<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: 31/12/1990 | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1986<br>Last Recorded: 31/12/1990 |
| 4 | On site | Site Address: Western Road Tip, Immingham Dock, Lincolnshire<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: 55/19/0166<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 22/06/1977<br>Licence Surrender: 26/01/1990 | Operator: British Transport Docks Board<br>Licence Holder: British Transport Docks Board<br>First Recorded 31/12/1935<br>Last Recorded: 01/12/1978 |

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

## 3.5 Historical waste sites

| Records within 500m | 2 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 56**

| ID | Location | Address | Further Details | Date |
|---|---|---|---|---|
| 8 | 173m SW | Site Address: Immingham Landfill Site, Queens Road, Immingham, Humberside, DN40 1QR | Type of Site: Landfill Works<br>Planning application reference: DM/0844/18/SCR<br>Description: Scheme comprises request for eia screening opinion - immingham landfill site.<br>Data source: Historic Planning Application<br>Data Type: Point | 10/10/2018 |
| 10 | 279m SE | Site Address: N/A | Type of Site: Gypsum Disposal Bed (B)<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1951 |

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

## 3.6 Licensed waste sites

| Records within 500m | 20 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 56**

| ID | Location | Details | | |
|---|---|---|---|---|
| **2** | **On site** | **Site Name: Sandstop Recycling<br>Site Address: Sandstop Recycling, Robinson Road, Port Of Immingham, Immingham, N E Lincs, DN40 2QJ<br>Correspondence Address: -** | **Type of Site: Inert & excavation Waste TS + treatment<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SQL002<br>EPR reference: EA/EPR/DB3405CP/S002<br>Operator: Sandstop Quarries Ltd<br>Waste Management licence No: 402767<br>Annual Tonnage: 0** | **Issue Date: 28/08/2015<br>Effective Date: -<br>Modified: -<br>Surrendered Date: Mar 22 2017 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered** |
| **5** | **On site** | **Site Name: Immingham Dock Transfer Station<br>Site Address: Waste Oil Services Ltd, Waste Oil Services Ltd, Immingham Dock, Immingham, N E Lincs, DN40 2LZ<br>Correspondence Address: -** | **Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: FRE001<br>EPR reference: EA/EPR/JP3795NC/S002<br>Operator: Lockerbie Fred<br>Waste Management licence No: 70852<br>Annual Tonnage: 909** | **Issue Date: 23/04/1993<br>Effective Date: -<br>Modified: -<br>Surrendered Date: Mar 31 2000 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered** |
| 7 | 119m N | Site Name: Immingham Oil Terminal<br>Site Address: Associated Petroleum Terminals Ltd, Queens Road, Immingham, Grimsby, N E Lincs, DN40 2PN<br>Correspondence Address: - | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ASS002<br>EPR reference: EA/EPR/UP3830LG/V004<br>Operator: Associated Petroleum Terminals Limited<br>Waste Management licence No: 404518<br>Annual Tonnage: 75000 | Issue Date: 26/01/2018<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

| ID | Location | Details | | |
|---|---|---|---|---|
| B | 210m SE | Site Name: Immingham ( Household Waste Recycling Centre)<br>Site Address: Queens Road, Immingham, N E Lincs, DN40 1QR<br>Correspondence Address: The Drive, Warley, Brentwood, Essex, CM13 3BE | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CLE005<br>EPR reference: -<br>Operator: Cleanaway Ltd.<br>Waste Management licence No: 73067<br>Annual Tonnage: 5000 | Issue Date: 02/01/2001<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued |
| B | 210m SE | Site Name: Immingham ( Household Waste Recycling Centre)<br>Site Address: Recycling Centre, Queens Road, Immingham, N E Lincs, DN40 1QR<br>Correspondence Address: Iwmf, South Marsh Road, Stallingborough, N E Lincs, DN41 8BZ | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CLE005<br>EPR reference: -<br>Operator: Grimsby Operations Ltd<br>Waste Management licence No: 73067<br>Annual Tonnage: 5000 | Issue Date: 02/01/2001<br>Effective Date: -<br>Modified: 05/01/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| B | 210m SE | Site Name: Immingham Household Waste Amenity Site<br>Site Address: Immingham Household Waste Amenity Site, Queens Road, Immingham, N E Lincs, DN40 1QR<br>Correspondence Address: - | Type of Site: Household Waste Amenity Site<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CLE005<br>EPR reference: EA/EPR/PP3192NP/V003<br>Operator: Grimsby Operations Ltd<br>Waste Management licence No: 73067<br>Annual Tonnage: 4999 | Issue Date: 02/01/2001<br>Effective Date: -<br>Modified: 06/03/2013<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| B | 210m SE | Site Name: Immingham Household Waste Amenity Site<br>Site Address: Immingham Household Waste Amenity Site, Queens Road, Immingham, N E Lincs, DN40 1QR<br>Correspondence Address: - | Type of Site: Household Waste Amenity Site<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CLE005<br>EPR reference: EA/EPR/PP3192NP/V004<br>Operator: Grimsby Operations Limited<br>Waste Management licence No: 73067<br>Annual Tonnage: 4999 | Issue Date: 02/01/2001<br>Effective Date: -<br>Modified: 21/12/2017<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

| ID | Location | Details | | |
|---|---|---|---|---|
| E | 371m W | Site Name: Inter Terminals Immingham Ltd<br>Site Address: Immingham East Terminal, East Riverside, Immingham Dock, Immingham, N E Lincs, DN40 2QW<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: IMM004<br>EPR reference: EA/EPR/LP3024XB/V004<br>Operator: Inter Terminals Immingham Limited<br>Waste Management licence No: 400194<br>Annual Tonnage: 125000 | Issue Date: 25/06/2013<br>Effective Date: -<br>Modified: 26/01/2017<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| E | 371m W | Site Name: Immingham Storage Company Limited<br>Site Address: Immingham East Terminal, East Riverside, Immingham Dock, Immingham, Sth Humberside, DN40 2QW<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: IMM004<br>EPR reference: EA/EPR/LP3024XB/V002<br>Operator: Immingham Storage Company Limited<br>Waste Management licence No: 400194<br>Annual Tonnage: 0 | Issue Date: 25/06/2013<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued |
| E | 371m W | Site Name: Immingham Storage Company Limited<br>Site Address: Immingham East Terminal, East Riverside, Immingham Dock, Immingham, Sth Humberside, DN40 2QW<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: IMM004<br>EPR reference: EA/EPR/LP3024XB/V003<br>Operator: Inter Terminals Immingham Limited<br>Waste Management licence No: 400194<br>Annual Tonnage: 74999 | Issue Date: 25/06/2013<br>Effective Date: -<br>Modified: 20/10/2015<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

| ID | Location | Details | | |
|---|---|---|---|---|
| 12 | 377m W | Site Name: Inter Terminals Immingham Ltd<br>Site Address: Immingham East Terminal, East Riverside, Immingham Dock, Immingham, N E Lincs, DN40 2QW<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: IMM004<br>EPR reference: EA/EPR/LP3024XB/V004<br>Operator: Inter Terminals Immingham Limited<br>Waste Management licence No: 400194<br>Annual Tonnage: 125000 | Issue Date: 25/06/2013<br>Effective Date: -<br>Modified: 26/01/2017<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| 13 | 399m NW | Site Name: Immingham Dock Olive Residue Storage<br>Site Address: Dock Office, Immingham Dock, Immingham, N E Lincs, DN40 2LZ<br>Correspondence Address: - | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ASS002<br>EPR reference: EA/EPR/HP3792NM/A001<br>Operator: Associated British Ports<br>Waste Management licence No: 73207<br>Annual Tonnage: 25000 | Issue Date: 09/03/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued |
| F | 430m NE | Site Name: Mineral Quay<br>Site Address: Land / Premises At, Immingham Docks, Immingham, N E Lincs, DN40 2YD<br>Correspondence Address: - | Type of Site: Metal Recycling Site (mixed MRS's)<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: VAN011<br>EPR reference: EA/EPR/CB3131RL/A001<br>Operator: Van Dalen U K Ltd<br>Waste Management licence No: 100227<br>Annual Tonnage: 150000 | Issue Date: 12/01/2009<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued |

| ID | Location | Details | | |
|---|---|---|---|---|
| F | 430m NE | Site Name: Mineral Quay<br>Site Address: Mineral Quay, Immingham Docks, Immingham, N E Lincs, DN40 2YD<br>Correspondence Address: - | Type of Site: Metal Recycling Site (mixed MRS's)<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MET099<br>EPR reference: EA/EPR/BB3307SV/V002<br>Operator: Mettalis Recycling Ltd<br>Waste Management licence No: 100227<br>Annual Tonnage: 150000 | Issue Date: 12/01/2009<br>Effective Date: 18/04/2014<br>Modified: 15/04/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| G | 467m SW | Site Name: S. A. R. Recycling Ltd<br>Site Address: Units 1 And 2 Pelham Ind Est, Manby Road, Immingham, N E Lincs, DN40 2LF<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SAR001<br>EPR reference: EA/EPR/CP3294LE/V009<br>Operator: S A R Recycling Ltd<br>Waste Management licence No: 100638<br>Annual Tonnage: 24999 | Issue Date: 15/01/2009<br>Effective Date: -<br>Modified: 12/12/2018<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: To PPC |
| F | 476m NE | Site Name: Mineral Quay<br>Site Address: Mineral Quay, Immingham Docks, Immingham, N E Lincs, DN40 2QU<br>Correspondence Address: - | Type of Site: Metal Recycling Site (mixed MRS's)<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: DWL001<br>EPR reference: EA/EPR/GB3303TN/T001<br>Operator: Donald Ward Limited<br>Waste Management licence No: 100227<br>Annual Tonnage: 150000 | Issue Date: 12/01/2009<br>Effective Date: 03/07/2018<br>Modified: 15/04/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |
| G | 478m W | Site Name: S. A. R. Recycling Ltd<br>Site Address: Units 1 And 2 Pelham Ind Est, Manby Road, Immingham, N E Lincs, DN40 2LF<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SAR001<br>EPR reference: EA/EPR/CP3294LE/V009<br>Operator: S. A. R. Recycling Ltd<br>Waste Management licence No: 100638<br>Annual Tonnage: 24999 | Issue Date: 15/01/2009<br>Effective Date: -<br>Modified: 12/12/2018<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: To PPC |

| ID | Location | Details | | |
|---|---|---|---|---|
| G | 478m W | Site Name: S A R Recycling Ltd<br>Site Address: Units 1 And 2 Pelham Ind Est, Manby Road, Immingham, N E Lincs, DN40 2LF<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SAR001<br>EPR reference: EA/EPR/CP3294LE/V007<br>Operator: S A R Recycling Limited<br>Waste Management licence No: 100638<br>Annual Tonnage: 24999 | Issue Date: 15/01/2009<br>Effective Date: -<br>Modified: 06/05/2016<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| G | 480m SW | Site Name: S. A. R. Metals Recycling E L V Facility<br>Site Address: Phoenix House, Manby Road Industrial Estate, Immingham, N E Lincs, DN40 2LG<br>Correspondence Address: - | Type of Site: Metal Recycling Site (Vehicle Dismantler)<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SAR005<br>EPR reference: EA/EPR/HB3403HU/A001<br>Operator: S A R Metals Limited<br>Waste Management licence No: 406228<br>Annual Tonnage: 4999 | Issue Date: 01/10/2019<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued |
| G | 480m SW | Site Name: S. A. R. Metals Recycling E L V Facility<br>Site Address: Phoenix House, Manby Road Industrial Estate, Immingham, N E Lincs, DN40 2LG<br>Correspondence Address: - | Type of Site: Metal Recycling Site (Vehicle Dismantler)<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: SAR005<br>EPR reference: EA/EPR/HB3403HU/V002<br>Operator: S. A. R. Metals Limited<br>Waste Management licence No: 406228<br>Annual Tonnage: 4999 | Issue Date: 01/10/2019<br>Effective Date: -<br>Modified: 15/01/2021<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

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

## 3.7 Waste exemptions

| Records within 500m | 23 |
|---|---|

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 56**

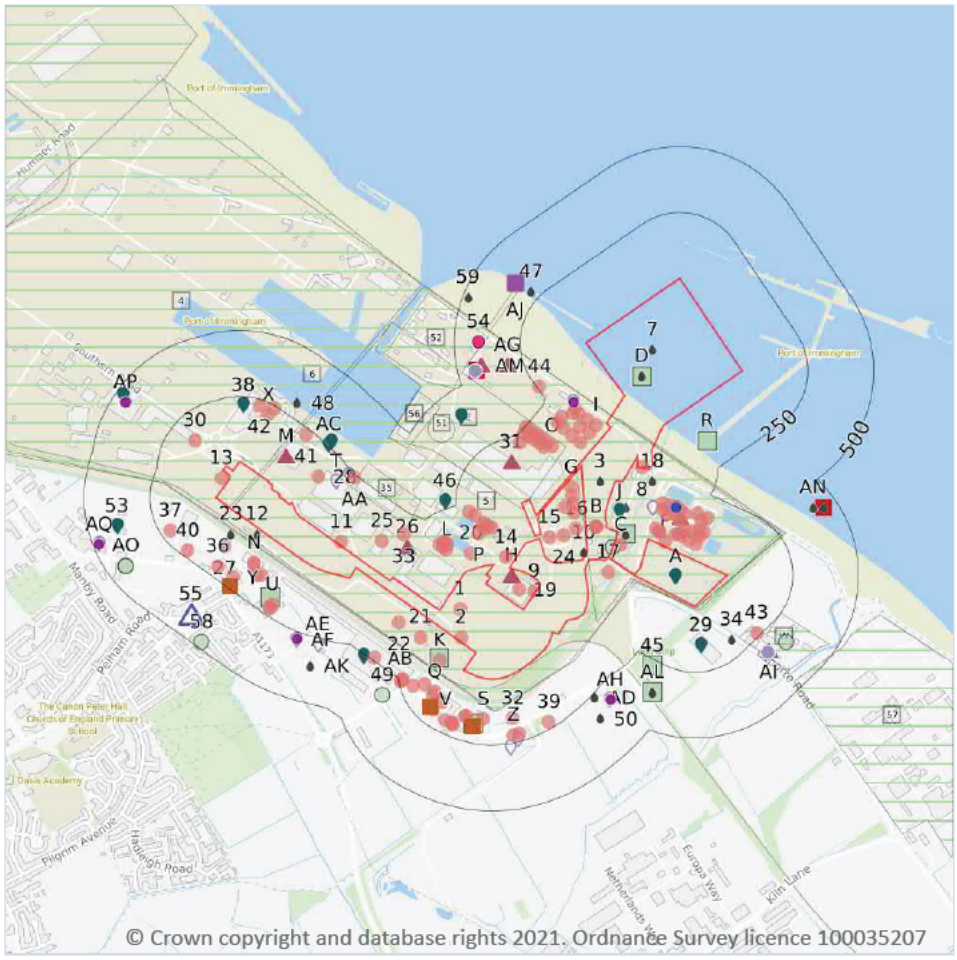
| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| **3** | **On site** | **-** | **WEX236923** | **Using waste exemption** | **Not on a farm** | **Spreading waste on non-agricultural land to confer benefit** |
| 6 | 24m SE | Port of Immingham Nature Area, East Riverside, Port of Immingham, Immingham, DN40 2QN | WEX110966 | Disposing of waste exemption | Not on a farm | Burning waste in the open |
| A | 39m NE | - | WEX259155 | Using waste exemption | Not on a farm | Spreading of plant matter to confer benefit |
| A | 39m NE | - | WEX259155 | Treating waste exemption | Not on a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| A | 39m NE | - | WEX260488 | Using waste exemption | Not on a farm | Use of mulch |
| C | 270m SW | QUEENS ROAD, IMMINGHAM, DN40 1QT | WEX048600 | Disposing of waste exemption | Not on a farm | Deposit of waste from dredging of inland waters |
| C | 270m SW | QUEENS ROAD, IMMINGHAM, DN40 1QT | WEX048600 | Using waste exemption | Not on a farm | Spreading of plant matter to confer benefit |
| D | 279m S | Knauf Drywall Queens Road Immingham South Humberside DN40 1QT | EPR/GE5084LA/A001 | Disposing of waste exemption | Non-Agricultural Waste Only | Deposit of waste from dredging of inland waters |
| D | 279m S | Knauf Drywall Queens Road Immingham South Humberside DN40 1QT | EPR/GE5084LA/A001 | Using waste exemption | Non-Agricultural Waste Only | Spreading of plant matter to confer benefit |
| 11 | 324m SE | Arkema Coatings Resins Ltd Laporte Road Stallingborough North East Lincolnshire DN41 8DR | EPR/KF0607EJ/A001 | Treating waste exemption | Non-Agricultural Waste Only | Crushing waste fluorescent tubes |
| 14 | 409m NE | East Riverside 3Q Ext immingham dock Immingham Dock Immingham North East Lincolnshire DN40 2LZ | EPR/WF0409ZG/A001 | Storing waste exemption | Non-Agricultural Waste Only | Storage of waste in a secure place |
| G | 476m SW | Units 1 & 2 Pelham Industrial Estate Immingham DN40 2LF | EPR/ZF0833CH/A001 | Storing waste exemption | Both agricultural and non-agricultural waste | Storage of waste in a secure place |

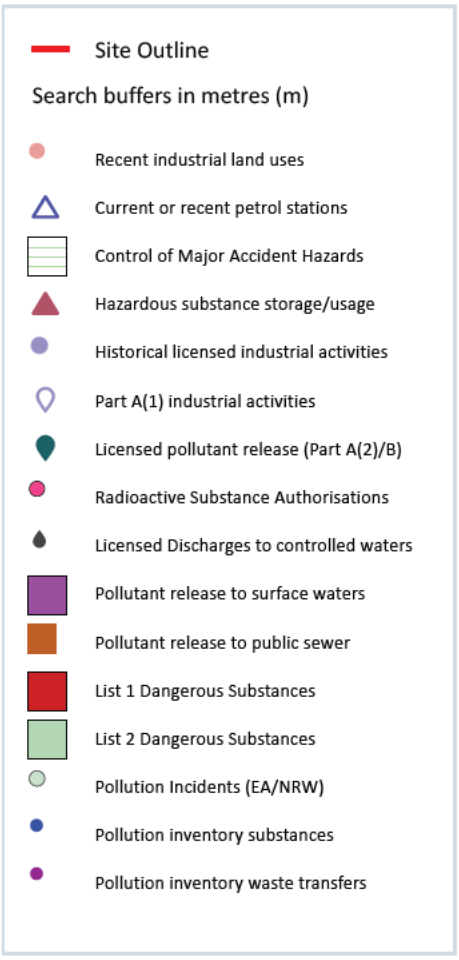
| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| G | 476m SW | Units 1 & 2 Pelham Industrial Estate Immingham DN40 2LF | EPR/ZF0833CH/A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Cleaning, washing, spraying or coating relevant waste |
| G | 476m SW | Units 1 & 2 Pelham Industrial Estate Immingham DN40 2LF | EPR/ZF0833CH/A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Preparatory treatments (baling, sorting, shredding etc) |
| G | 477m W | Unit 1 - 5 Pelham Industrial Estate North East Lincolnshire DN40 2LF | EPR/ME5747ZX/A001 | Storing waste exemption | Both agricultural and non-agricultural waste | Storage of waste in secure containers |
| G | 477m W | Unit 1 - 5 Pelham Industrial Estate North East Lincolnshire DN40 2LF | EPR/ME5747ZX/A001 | Storing waste exemption | Both agricultural and non-agricultural waste | Storage of waste in a secure place |
| G | 477m W | Unit 1 - 5 Pelham Industrial Estate North East Lincolnshire DN40 2LF | EPR/ME5747ZX/A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Cleaning, washing, spraying or coating relevant waste |
| G | 477m W | Unit 1 - 5 Pelham Industrial Estate North East Lincolnshire DN40 2LF | EPR/ME5747ZX/A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Preparatory treatments (baling, sorting, shredding etc) |
| F | 481m NE | - | WEX127316 | Storing waste exemption | Not on a farm | Storage of waste in secure containers |
| F | 481m NE | - | WEX127316 | Storing waste exemption | Not on a farm | Storage of waste in a secure place |
| F | 481m NE | - | WEX127316 | Treating waste exemption | Not on a farm | Recovery of scrap metal |
| G | 490m SW | Units 1 & 2 Pelham Industrial Estate Immingham DN40 2LF | EPR/UF0509FF/A001 | Storing waste exemption | Both agricultural and non-agricultural waste | Storage of waste in secure containers |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| G | 490m SW | Units 1 & 2 Pelham Industrial Estate Immingham DN40 2LF | EPR/UF0509FF /A001 | Storing waste exemption | Both agricultural and non-agricultural waste | Storage of waste in a secure place |

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

# 4 Current industrial land use




## 4.1 Recent industrial land uses

| Records within 250m | 136 |
|---|---|

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 1 | On site | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| 2 | On site | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 8 | On site | Jetty | Lincolnshire, DN40 | Moorings and Unloading Facilities | Water |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| **B** | **On site** | **Drury Engineering Services Ltd** | **East Riverside, Immingham Dock, Immingham, Lincolnshire, DN40 2LZ** | **Cutting, Drilling and Welding Services** | **Construction Services** |
| **B** | **On site** | **Malcolm West Forklift** | **East Riverside, Immingham Dock, Immingham, Lincolnshire, DN40 2LZ** | **Lifting and Handling Equipment** | **Industrial Products** |
| **B** | **On site** | **Port Equipment Engineering Company Ltd** | **East Riverside, Immingham Dock, Immingham, Lincolnshire, DN40 2LZ** | **Industrial Repairs and Servicing** | **Repair and Servicing** |
| 9 | 6m NW | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| 11 | 13m NE | Gas Valve Compound | Lincolnshire, DN40 | Gas Features | Infrastructure and Facilities |
| F | 16m NE | Mast (Telecommunication) | Lincolnshire, DN40 | Telecommunications Features | Infrastructure and Facilities |
| G | 24m SE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| C | 25m E | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| 13 | 27m NW | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| 14 | 33m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 15 | 34m E | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 16 | 37m W | Electricity Sub Stations | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| G | 40m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| G | 42m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 42m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| G | 43m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 45m NE | Associated Petroleum Terminals Immingham Ltd | Queens Road, Immingham, Lincolnshire, DN40 2PN | Fuel Distributors and Suppliers | Household, Office, Leisure and Garden |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| F | 45m NE | Briggs Marine Contractors Ltd | Queens Road, Immingham, Lincolnshire, DN40 2PN | Moorings and Unloading Facilities | Water |
| 17 | 46m S | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| F | 47m NE | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| I | 48m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 49m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| G | 54m SE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 19 | 55m NE | Origin Fertilisers UK Ltd | Gresley Way, Immingham Dock, Immingham, Lincolnshire, DN40 2QQ | Fertilisers | Industrial Products |
| F | 59m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 61m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 20 | 61m N | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| F | 61m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 62m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 73m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 21 | 74m SW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 22 | 77m SW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 24 | 85m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 87m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 91m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 92m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 92m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 96m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| K | 100m W | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| 25 | 105m NE | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| I | 112m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 112m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 114m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 115m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 115m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 115m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| N | 117m SW | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| N | 122m SW | Iris N D T Ltd | Middleplatt Road, Immingham, Lincolnshire, DN40 1AH | Industrial Engineers | Engineering Services |
| F | 124m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 124m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 125m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 126m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| P | 126m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 129m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 131m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 27 | 132m SW | Eimskip | Middleplatt Road, Immingham, Lincolnshire, DN40 1AH | Distribution and Haulage | Transport, Storage and Delivery |
| I | 134m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 135m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 136m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 137m SW | Oceaneering | UNIT 3, PRINCE CHARLES DRIVE, Immingham, Lincolnshire, DN40 1QP | Industrial Engineers | Engineering Services |
| F | 138m SE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 138m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| N | 138m SW | S G S | Middleplatt Road, Immingham, Lincolnshire, DN40 1AH | Industrial Engineers | Engineering Services |
| L | 139m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| P | 139m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| P | 140m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 28 | 141m NE | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| L | 142m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| L | 143m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 145m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 145m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 148m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| N | 148m SW | Mast (Telecommunication) | Lincolnshire, DN40 | Telecommunications Features | Infrastructure and Facilities |
| Q | 149m SW | Windsor Materials Handling | Unit 5, Prince Andrew Drive, Immingham, Lincolnshire, DN40 1QQ | Lifting and Handling Equipment | Industrial Products |
| F | 150m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| P | 150m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 150m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| P | 150m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 153m SW | Boyers Industrial Turning Services Ltd | Unit 2, Prince Charles Drive, Immingham, Lincolnshire, DN40 1QP | Precision Engineers | Engineering Services |
| 30 | 153m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 154m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| S | 154m S | Graypen Ltd | The Bridge One Graypen Way, Queens Road, Immingham, Lincolnshire, DN40 1QN | Moorings and Unloading Facilities | Water |
| F | 155m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 158m W | Gas Valve Compound | Lincolnshire, DN40 | Gas Features | Infrastructure and Facilities |
| S | 158m S | Humber Inspection International Ltd | Humber Inspection Building Prince Henry Drive, Queens Road, Immingham, Lincolnshire, DN40 1QY | Marine Engineers and Services | Engineering Services |
| S | 159m S | Dan Shipping & Chartering Ltd | Humber Inspection Building Prince Henry Drive, Queens Road, Immingham, Lincolnshire, DN40 1QY | Distribution and Haulage | Transport, Storage and Delivery |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 32 | 159m S | Pumping Station | Lincolnshire, DN40 | Water Pumping Stations | Industrial Features |
| P | 160m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 166m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 166m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 166m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| F | 167m NE | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| I | 167m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 169m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 33 | 170m N | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| P | 184m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 189m SW | Inspectorate International Ltd | Unit 7, Queens Road, Immingham, Lincolnshire, DN40 1QR | Distribution and Haulage | Transport, Storage and Delivery |
| Q | 189m SW | S J P Trading Skip Hire | 9, Queens Road, Immingham, Lincolnshire, DN40 1QR | Recycling, Reclamation and Disposal | Recycling Services |
| O | 190m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 190m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| V | 198m SW | Sherwood Travel | 19, Queens Road, Immingham, Lincolnshire, DN40 1QR | Vehicle Hire and Rental | Hire Services |
| P | 201m W | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 202m W | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| V | 202m SW | Apollo Fuels Ltd | 26-27, Queens Road, Immingham, Lincolnshire, DN40 1QR | Fuel Distributors and Suppliers | Household, Office, Leisure and Garden |
| V | 202m SW | Mark Ellis Motors | 26-27, Queens Road, Immingham, Lincolnshire, DN40 1QR | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| V | 202m SW | Saybolt UK Ltd | 28, Queens Road, Immingham, Lincolnshire, DN40 1QR | Industrial Engineers | Engineering Services |
| U | 203m SW | Immingham Spraybay | Middleplatt Road, Immingham, Lincolnshire, DN40 1AH | Industrial Coatings and Finishings | Industrial Products |
| X | 207m NE | Chimney | Lincolnshire, DN40 | Chimneys | Industrial Features |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 36 | 207m SW | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| O | 207m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Y | 207m SW | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| 37 | 214m SW | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| O | 215m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| O | 219m N | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| U | 219m SW | C G B Humberther m Ltd | Middleplatt Road, Immingham, Lincolnshire, DN40 1AH | Construction Completion Services | Construction Services |
| Z | 220m S | Gas Governor | Lincolnshire, DN40 | Gas Features | Infrastructure and Facilities |
| U | 221m SW | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| Z | 221m S | Power Station | Lincolnshire, DN40 | Energy Production | Industrial Features |
| 39 | 225m SE | Recycling Centre | Lincolnshire, DN40 | Recycling Centres | Infrastructure and Facilities |
| 40 | 226m SW | Engie Fabricoms UK Ltd | Middleplatt Road, Immingham, Lincolnshire, DN40 1FN | Civil Engineers | Engineering Services |
| 41 | 227m NE | Gleadell | Immingham Dock, Immingham, Lincolnshire, DN40 2LZ | Agricultural Machinery and Goods | Industrial Products |
| 42 | 228m N | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |
| O | 231m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| 43 | 235m SE | Polynt Composites | Laporte Road, Stallingborough, Grimsby, Lincolnshire, DN41 8DR | Adhesives and Sealants | Industrial Products |
| Q | 235m W | Silo | Lincolnshire, DN40 | Hoppers and Silos | Farming |
| O | 236m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 239m W | Silo | Lincolnshire, DN40 | Hoppers and Silos | Farming |
| AA | 240m NE | Electricity Sub Station | Lincolnshire, DN40 | Electrical Features | Infrastructure and Facilities |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| X | 240m NE | Silo | Lincolnshire, DN40 | Hoppers and Silos | Farming |
| AB | 242m SW | Works | Lincolnshire, DN40 | Unspecified Works Or Factories | Industrial Features |
| 44 | 242m SW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |
| Q | 244m W | Silo | Lincolnshire, DN40 | Hoppers and Silos | Farming |
| O | 246m NW | Tank | Lincolnshire, DN40 | Tanks (Generic) | Industrial Features |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

| Records within 500m | 1 |
|---|---|

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Company | Address | LPG | Status |
|---|---|---|---|---|---|
| 55 | 415m SW | RIX | Pelham Road, Immingham, North East Lincolnshire, DN40 1AB | No | Open |

*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 | 11 |
|---|---|

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 68**

| ID | Location | Company | Address | Operational status | Tier |
|---|---|---|---|---|---|
| **4** | **On site** | **Exolum Immingham Limited** | **Exolum Immingham Limited, Immingham West Terminal, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QU** | **Current COMAH Site** | **COMAH Upper Tier Operator** |
| **5** | **On site** | **Exolum Immingham Limited** | **Exolum Immingham Limited, Immingham East Terminal, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QW** | **Current COMAH Site** | **COMAH Upper Tier Operator** |
| **6** | **On site** | **Associated British Ports** | **Associated British Ports, Immingham Dock, Immingham Dock, Immingham, Lincolnshire, DN40 2NS** | **Current COMAH Site** | **COMAH Upper Tier Operator** |
| **E** | **On site** | **Associated British Ports** | **Associated British Ports, ABP Bulk Park, Immingham Dock, Alexandra Road North, Immingham, North East Lincolnshire, DN40 2QW** | **Current COMAH Site** | **COMAH Lower Tier Operator** |
| **F** | **On site** | **Associated Petroleum Terminals (Immingham) Limited** | **Associated Petroleum Terminals (Immingham) Limited, Immingham, Main Terminal, Queens Road, Immingham, North East Lincolnshire, DN40 2PN** | **Current COMAH Site** | **COMAH Upper Tier Operator** |
| W | 203m SE | Arkema Coatings Resins Limited | Arkema Coatings Resins Limited, Grimsby, Laporte Road, Stallingborough, North East Lincolnshire, DN37 8DR | Historical NIHHS Site | - |
| 35 | 204m N | Origin UK Operations Limited | Origin UK Operations Limited, Immingham Dock, Gresley Way, Immingham, North East Lincolnshire, DN40 2QQ | Current COMAH Site | COMAH Lower Tier Operator |

| ID | Location | Company | Address | Operational status | Tier |
|---|---|---|---|---|---|
| 51 | 364m NW | Grosvenor Grain & Feed Co Ltd | Grosvenor Grain And Feed Company Ltd, West Gate, Immingham Dock, Immingham, DN40 2Q | Historical NIHHS Site | - |
| 52 | 371m W | Edward Nicholson Ltd | Edward Nicholson Ltd, Immingham Dock, Immingham, DN40 3JY | Historical NIHHS Site | - |
| 56 | 443m NE | Associated British Ports | Associated British Ports, Shed No 2/3 - Immingham Dock, Shed No 2/3, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QY | Current COMAH Site | COMAH Lower Tier Operator |
| 57 | 466m SE | Tronox Pigment UK Limited | Tronox Pigment UK Limited, Grimsby, Po Box 26, Laporte Road, Stallingborough, Grimsby, North East Lincolnshire, DN40 2PR | Current COMAH Site | COMAH Upper Tier Operator |

*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 | 19 |
|---|---|

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 68**

| ID | Location | Details | |
|---|---|---|---|
| H | 24m S | Application reference number: No Details<br>Application status: Approved<br>Application date: 13/10/2004<br>Address: Origin UK Operations Ltd, Gresley Way, Immingham Dock, Immingham, North East Lincolnshire, England, DN40 2QQ | Details: Storage of ammonium nitrate 4950 tonnes.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

| ID | Location | Details | |
|---|---|---|---|
| H | 24m S | Application reference number: DC/776/09/IMM<br>Application status: Historical Consent<br>Application date: 28/07/2010<br>Address: Origin UK Operations Ltd, Gresley Way, Immingham Dock, Immingham, North East Lincolnshire, England, DN40 2QQ | Details: Removal Of Condition 3 On Dc/892/05/Imm Previous Hazardous Substance Consent<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| H | 24m S | Application reference number: DC/869/04/IMM<br>Application status: Historical Consent<br>Application date: 13/10/2004<br>Address: IAWS Fertilizers Ltd, Gresley Way, Immingham, DN40 2QQ | Details: Storage of ammonium nitrate 4950 tonnes.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| H | 24m S | Application reference number: DC/892/05/IMM<br>Application status: Historical Consent<br>Application date: 26/08/2005<br>Address: IAWS Fertilizers Ltd, Gresley Way, Immingham, DN40 2QQ | Details: Consent For Storage Of Ammonium Nitrate 4950 Tonnes<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| M | 115m NE | Application reference number: DC/859/99/IMM<br>Application status: Historical Consent<br>Application date: 04/11/1999<br>Address: Hydro Agri (UK) Ltd, Immingham Dock, DN40 2NS | Details: No Details.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| M | 115m NE | Application reference number: DC/271/01/IMM<br>Application status: Historical Consent<br>Application date: 23/08/2001<br>Address: Hydro Agri (UK) Ltd, Immingham Dock, DN40 2NS | Details: Storage of 10000 tonnes of ammonium nitrate.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| M | 115m NE | Application reference number: DC/29/02/IMM<br>Application status: Historical Consent<br>Application date: 28/05/2002<br>Address: Hydro Agri (UK) Ltd, Immingham Dock, DN40 2NS | Details: Storage of 4000 tonnes of potassium nitrate.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| F | 125m NE | Application reference number: HSC/DC/7<br>Application status: Approved<br>Application date: 03/11/1992<br>Address: Associated Petroleum Terminals (Immingham) Limited, Main Terminal, Queens Road, Immingham, North East Lincolnshire, England, DN40 2PN | Details: Operation of a marine oil terminal including the provision and operation of services for the receipt, transfer, storage, blending and testing of crude oil and petroleum products.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 26 | 128m NE | Application reference number: HSC/DC/10<br>Application status: Historical Consent<br>Application date: 16/11/1992<br>Address: Hydro Fertilisers Ltd, Immingham Dock, DN40 2NS | Details: Manufacture and storage of fertilisers and chemicals, raw materials and intermediate products stored onsite.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

| ID | Location | Details | |
|---|---|---|---|
| 31 | 157m N | Application reference number: DM/0726/14/HAZ<br>Application status: Approved<br>Application date: 04/07/2014<br>Address: Associated British Ports, ABP (Hydro) Terminal, Immingham Dock, Immingham, North East Lincolnshire, England, DN40 2NS | Details: Hazardous substance consent to vary conditions 1 & 3 of previously approved DC/51/98/IMM to amend the location & increase the quantity of the ammonium nitrate fertiliser from 300 tonne to 1100 tonne with suitable segregation between each stack<br>Enforcement: No Details<br>Date of enforcement: No Details<br>Comment: No Details |
| AG | 311m W | Application reference number: DC/807/99/IMM<br>Application status: Approved<br>Application date: 04/11/1999<br>Address: Associated British Ports, Shed No 2/3, Immingham Dock, Immingham, North East Lincolnshire, England, DN40 2QW | Details: No Details.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AG | 311m W | Application reference number: DC/524/99/IMM<br>Application status: Approved<br>Application date: 03/09/1999<br>Address: Inter Terminals Immingham Ltd, East Terminal, Immingham Dock, Immingham, North East Lincolnshire, England, DN40 2QW | Details: Storage of 200 tonnes of toulene di-isocyanate.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AG | 311m W | Application reference number: DC/807/99/IMM<br>Application status: Historical Consent<br>Application date: 04/11/1999<br>Address: Immingham Storage Co. Ltd, East Terminal, Immingham Dock, DN40 2QW | Details: No Details.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AG | 311m W | Application reference number: DC/908/99/IMM<br>Application status: Historical Consent<br>Application date: 18/11/1999<br>Address: Immingham Storage Co. Ltd, East Terminal, Immingham Dock, DN40 2QW | Details: No Details.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AG | 311m W | Application reference number: DC/208/00/IMM<br>Application status: Historical Consent<br>Application date: 10/07/2000<br>Address: Immingham Storage Co. Ltd, East Terminal, Immingham Dock, DN40 2QW | Details: Storage of very toxic and extremely flammable hazardous substances.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AG | 311m W | Application reference number: DC/1436/07/IMM<br>Application status: Historical Consent<br>Application date: 30/07/2008<br>Address: Simon Storage Group, Immingham Storage Co. Ltd, East Terminal, Immingham Dock, DN40 2QW | Details: Consent To Increase Storage Of Extremely Flammable Products From 1,000 Tonnes To 10,000 Tonnes<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

| ID | Location | Details | |
|---|---|---|---|
| AI | 315m SE | Application reference number: DC/177/02/IMM<br>Application status: Approved<br>Application date: 28/05/2002<br>Address: Arkema Coatings Resins Ltd PKA Cray Valley Ltd, Laporte Road, Stallingborough, Grimsby, North East Lincolnshire, England, DN41 8DR | Details: Storage of 30 tonnes of toluene di-isocyanate.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AM | 408m W | Application reference number: HSC/DC/1<br>Application status: Approved<br>Application date: 21/07/1992<br>Address: Edward Nicholson Ltd, East Riverside, Immingham Dock, Grimsby, England, DN40 2LZ | Details: Storage and handling of bulk liquid oils, chemicals and LPG<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| AM | 408m W | Application reference number: HSC/2/93<br>Application status: Historical Consent<br>Application date: 05/04/1994<br>Address: Edward Nicholson Ltd, East Riverside, Immingham Dock, Grimsby, England, DN40 2LZ | Details: Modification of the maximum quantity of acrylonitrile from 41182 water tonnes to 41222 water tonnes and storage of up to 40 tonnes in movable containers and 200 KG capacity.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m** **33**

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.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Details | |
|---|---|---|---|
| F | 64m NE | Operator: Associated Petroleum Terminals (immingham) Ltd<br>Address: Queens Road, Immingham, Grimsby, North Lincs, DN40 2PN<br>Process: Petroleum Processes<br>Permit Number: AG1794 | Original Permit Number: IPCAPP<br>Date Approved: 1-10-1993<br>Effective Date: 1-10-1993<br>Status: Superseded By Variation |
| F | 64m NE | Operator: Associated Petroleum Terminals (immingham) Ltd<br>Address: Queens Road, Immingham, Grimsby, North Lincs, DN40 2PN<br>Process: Petroleum Processes<br>Permit Number: AM5777 | Original Permit Number: IPCMINVAR<br>Date Approved: 31-3-1994<br>Effective Date: 1-4-1994<br>Status: Superseded By Variation |

| ID | Location | Details | |
|---|---|---|---|
| F | 64m NE | Operator: Associated Petroleum Terminals (immingham) Ltd<br>Address: Queens Road, Immingham, Grimsby, North Lincs, DN40 2PN<br>Process: Petroleum Processes<br>Permit Number: BC8287 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Superseded By Variation |
| F | 64m NE | Operator: Associated Petroleum Terminals (immingham) Ltd<br>Address: Queens Road, Immingham, Grimsby, North Lincs, DN40 2PN<br>Process: Petroleum Processes<br>Permit Number: BF2625 | Original Permit Number: IPCMINVAR<br>Date Approved: 4-2-1999<br>Effective Date: 4-2-1999<br>Status: Superseded By Variation |
| F | 64m NE | Operator: Associated Petroleum Terminals (immingham) Ltd<br>Address: Queens Road, Immingham, Grimsby, North Lincs, DN40 2PN<br>Process: Petroleum Processes<br>Permit Number: BG7789 | Original Permit Number: IPCMINVAR<br>Date Approved: 31-3-2000<br>Effective Date: 31-3-2000<br>Status: Revoked - Now Ippc |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Combustion Processes<br>Permit Number: AA3395 | Original Permit Number: IPCAIRAPP<br>Date Approved: 17-2-1992<br>Effective Date: 17-2-1992<br>Status: Superseded By Variation |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Combustion Processes<br>Permit Number: AL4562 | Original Permit Number: IPCMAJVAR<br>Date Approved: 1-3-1994<br>Effective Date: 1-3-1994<br>Status: Revoked |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Acid Processes<br>Permit Number: AL9068 | Original Permit Number: IPCAIRAPP<br>Date Approved: 27-2-1995<br>Effective Date: 1-3-1995<br>Status: Superseded By Variation |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Chemical Fertiliser Production<br>Permit Number: AL9076 | Original Permit Number: IPCAIRAPP<br>Date Approved: 27-2-1995<br>Effective Date: 1-3-1995<br>Status: Superseded By Variation |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Chemical Fertiliser Production<br>Permit Number: AW4992 | Original Permit Number: IPCMAJVAR<br>Date Approved: 28-11-1996<br>Effective Date: 1-12-1996<br>Status: Superseded By Variation |

| ID | Location | Details | |
|---|---|---|---|
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Acid Processes<br>Permit Number: AZ5260 | Original Permit Number: IPCMINVAR<br>Date Approved: 22-9-1997<br>Effective Date: 29-9-1997<br>Status: Superseded By Variation |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Chemical Fertiliser Production<br>Permit Number: BA4221 | Original Permit Number: IPCMINVAR<br>Date Approved: 26-1-1998<br>Effective Date: 2-2-1998<br>Status: Superseded By Variation |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Acid Processes<br>Permit Number: BE0783 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Revoked |
| AA | 241m NE | Operator: Yara UK Ltd<br>Address: Immingham Dock, Immingham, Grimsby, North Lincs, DN40 2NS<br>Process: Chemical Fertiliser Production<br>Permit Number: BE2778 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Revoked |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: AK5555 | Original Permit Number: IPCAPP<br>Date Approved: 1-3-1994<br>Effective Date: 1-3-1994<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: AV1017 | Original Permit Number: IPCMINVAR<br>Date Approved: 16-12-1996<br>Effective Date: 1-1-1997<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BA0013 | Original Permit Number: IPCMINVAR<br>Date Approved: 28-10-1997<br>Effective Date: 1-11-1997<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BA4256 | Original Permit Number: IPCMAJVAR<br>Date Approved: 27-3-1998<br>Effective Date: 1-4-1998<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BE2794 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Superseded By Variation |

| ID | Location | Details | |
|---|---|---|---|
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BJ4485 | Original Permit Number: IPCMINVAR<br>Date Approved: 6-10-2000<br>Effective Date: 6-10-2000<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Di-isocyanate Processes<br>Permit Number: BR5418 | Original Permit Number: IPCAPP<br>Date Approved: 22-4-2002<br>Effective Date: 22-4-2002<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BR8620 | Original Permit Number: IPCMINVAR<br>Date Approved: 22-4-2002<br>Effective Date: 22-4-2002<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BT5091 | Original Permit Number: IPCMAJVAR<br>Date Approved: 22-1-2003<br>Effective Date: 24-1-2003<br>Status: Superseded By Variation |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Manufacture And Use Of Organic Chemicals<br>Permit Number: BX7967 | Original Permit Number: IPCMINVAR<br>Date Approved: 21-6-2004<br>Effective Date: 24-6-2004<br>Status: Revoked - Now Ippc |
| AI | 319m SE | Operator: Cray Valley Ltd<br>Address: Laporte Road, Stallingborough, Grimsby, North Lincs, DN41 8DR<br>Process: Di-isocyanate Processes<br>Permit Number: BX7975 | Original Permit Number: IPCMINVAR<br>Date Approved: 21-6-2004<br>Effective Date: 24-6-2004<br>Status: Revoked - Now Ippc |
| AM | 432m W | Operator: Immingham Storage Co Ltd<br>Address: Immingham East Terminal, Immingham Dock, Grimsby, North Lincs, DN40 2QW<br>Process: Petroleum Processes<br>Permit Number: AF8777 | Original Permit Number: IPCAIRAPP<br>Date Approved: 1-4-1993<br>Effective Date: 1-4-1993<br>Status: Superseded By Variation |
| AM | 432m W | Operator: Immingham Storage Co Ltd<br>Address: Immingham East Terminal, Immingham Dock, Grimsby, North Lincs, DN40 2QW<br>Process: Petroleum Processes<br>Permit Number: AM0104 | Original Permit Number: IPCMINVAR<br>Date Approved: 14-2-1994<br>Effective Date: 14-2-1994<br>Status: Superseded By Variation |
| AM | 432m W | Operator: Immingham Storage Co Ltd<br>Address: Immingham East Terminal, Immingham Dock, Grimsby, North Lincs, DN40 2QW<br>Process: Petroleum Processes<br>Permit Number: AY4390 | Original Permit Number: IPCMINVAR<br>Date Approved: 7-10-1998<br>Effective Date: 1-11-1998<br>Status: Superseded By Variation |

| ID | Location | Details | |
|---|---|---|---|
| AM | 432m W | Operator: Immingham Storage Co Ltd<br>Address: Immingham East Terminal, Immingham Dock, Grimsby, North Lincs, DN40 2QW<br>Process: Petroleum Processes<br>Permit Number: BD9289 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Revoked - Now Ippc |
| AP | 450m NW | Operator: Coal Products Ltd<br>Address: Western Access Road, Immingham Dock, Grimsby, North Lincs, DN40 2QR<br>Process: Carbonisation And Associated Processes<br>Permit Number: AF6227 | Original Permit Number: IPCAIRAPP<br>Date Approved: 1-4-1993<br>Effective Date: 1-4-1993<br>Status: Superseded By Variation |
| AP | 450m NW | Operator: Coal Products Ltd<br>Address: Western Access Road, Immingham Dock, Grimsby, North Lincs, DN40 2QR<br>Process: Carbonisation And Associated Processes<br>Permit Number: AX9159 | Original Permit Number: IPCMAJVAR<br>Date Approved: 25-3-1997<br>Effective Date: 1-4-1997<br>Status: Superseded By Variation |
| AP | 450m NW | Operator: Coal Products Ltd<br>Address: Western Access Road, Immingham Dock, Grimsby, North Lincs, DN40 2QR<br>Process: Carbonisation And Associated Processes<br>Permit Number: BD8681 | Original Permit Number: IPCMINVAR<br>Date Approved: 24-11-1998<br>Effective Date: 30-11-1998<br>Status: Superseded By Variation |
| AP | 450m NW | Operator: Coal Products Ltd<br>Address: Western Access Road, Immingham Dock, Grimsby, North Lincs, DN40 2QR<br>Process: Carbonisation And Associated Processes<br>Permit Number: BJ3039 | Original Permit Number: IPCMINVAR<br>Date Approved: 20-10-2000<br>Effective Date: 1-11-2000<br>Status: Revoked - Now Ippc |

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

## 4.10 Licensed industrial activities (Part A(1))

**Records within 500m** **104**

Records of Part A(1) 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 68**

| ID | Location | Details | |
|---|---|---|---|
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: CRUDE OIL<br>Permit Number: UP3232EV<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 10/01/2014<br>Effective Date: 10/01/2014<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL<br>Permit Number: UP3232EV<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 10/01/2014<br>Effective Date: 10/01/2014<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL<br>Permit Number: UP3830LG<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 25/10/2007<br>Effective Date: 25/10/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL<br>Permit Number: AP3433GM<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 05/08/2008<br>Effective Date: 05/08/2008<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT<br>Permit Number: AP3433GM<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 05/08/2008<br>Effective Date: 05/08/2008<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT<br>Permit Number: UP3830LG<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 25/10/2007<br>Effective Date: 25/10/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| F | 119m N | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: UP3232EV<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 10/01/2014<br>Effective Date: 10/01/2014<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/GP3837ZY<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: SP3730DR<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 26/01/2017<br>Effective Date: 26/01/2017<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/GP3837ZY<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: SP3730DR<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 26/01/2017<br>Effective Date: 26/01/2017<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: IMMINGHAM STORAGE COMPANY LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: GP3837ZY<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 25/06/2013<br>Effective Date: 25/06/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| I | 149m NW | Operator: IMMINGHAM STORAGE COMPANY LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT<br>Permit Number: GP3837ZY<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 25/06/2013<br>Effective Date: 25/06/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: IMMINGHAM STORAGE COMPANY LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D<br>Permit Number: GP3837ZY<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 25/06/2013<br>Effective Date: 25/06/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2016<br>Status: EFFECTIVE |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/GP3837ZY<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: SP3730DR<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 26/01/2017<br>Effective Date: 26/01/2017<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| I | 149m NW | Operator: INTER TERMINALS IMMINGHAM LIMITED<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT<br>Permit Number: XP3034WZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 20/10/2015<br>Effective Date: 20/10/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| I | 149m NW | Operator: EXOLUM IMMINGHAM LTD<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: MP3709MZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 16/06/2021<br>Effective Date: 16/06/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| I | 149m NW | Operator: EXOLUM IMMINGHAM LTD<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: MP3709MZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 16/06/2021<br>Effective Date: 16/06/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| I | 149m NW | Operator: EXOLUM IMMINGHAM LTD<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/LP3024XB<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: MP3709MZ<br>Original Permit Number: GP3837ZY | EPR Reference: -<br>Issue Date: 16/06/2021<br>Effective Date: 16/06/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| F | 151m NE | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL - EPR/UP3830LG<br>Process: CRUDE OIL<br>Permit Number: YP3235JG<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 26/01/2018<br>Effective Date: 26/01/2018<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| F | 151m NE | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL - EPR/UP3830LG<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: YP3235JG<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 26/01/2018<br>Effective Date: 26/01/2018<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |

| ID | Location | Details | |
|---|---|---|---|
| F | 151m NE | Operator: ASSOCIATED PETROLEUM TERMINALS LTD<br>Installation Name: IMMINGHAM OIL TERMINAL - EPR/UP3830LG<br>Process: GASIFICATION, LIQUIFAC. AND REFINING<br>Permit Number: YP3235JG<br>Original Permit Number: UP3830LG | EPR Reference: -<br>Issue Date: 26/01/2018<br>Effective Date: 26/01/2018<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| T | 184m NE | Operator: PB KENT & CO LTD<br>Installation Name: PB KENT IMMINGHAM EPR/BU1695IU<br>Process: CONVERTING CHEMICAL FERTILISERS INTO GRANULES<br>Permit Number: BU1695IU<br>Original Permit Number: BU1695IU | EPR Reference: -<br>Issue Date: 18/07/2003<br>Effective Date: 18/07/2003<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| T | 184m NE | Operator: PB KENT & CO LTD<br>Installation Name: PB KENT IMMINGHAM EPR/BU1695IU<br>Process: CONVERTING CHEMICAL FERTILISERS INTO GRANULES<br>Permit Number: GP3634FE<br>Original Permit Number: BU1695IU | EPR Reference: -<br>Issue Date: 31/08/2011<br>Effective Date: 31/08/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| T | 184m NE | Operator: PB KENT AND CO LTD<br>Installation Name: -<br>Process: CHEMICAL FERTILISERS; CONVERTING CHEMICAL FERTILISERS INTO GRANULES<br>Permit Number: BU1695<br>Original Permit Number: BU1695 | EPR Reference: -<br>Issue Date: 18/07/2003<br>Effective Date: 18/07/2003<br>Last date noted as effective: 01/10/2004<br>Status: SUPERSEDED BY PAS |
| Z | 241m S | Operator: UK POWER RESERVE LIMITED<br>Installation Name: QUEENS ROAD POWER PLANT EPR/VP3032EZ/A001<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: KP3938RY<br>Original Permit Number: VP3032EZ | EPR Reference: -<br>Issue Date: 19/12/2016<br>Effective Date: 19/12/2016<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| Z | 263m S | Operator: UK POWER RESERVE LIMITED<br>Installation Name: QUEENS ROAD POWER PLANT EPR/VP3032EZ<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: VP3032EZ<br>Original Permit Number: VP3032EZ | EPR Reference: -<br>Issue Date: 16/06/2014<br>Effective Date: 16/06/2014<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AE | 275m S | Operator: KNAUF UK GMBH<br>Installation Name: IMMINGHAM PLASTERBOARD MANUFACTURER EPR/JP3531PD<br>Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING)<br>Permit Number: BP3136QE<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 26/04/2019<br>Effective Date: 26/04/2019<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |

| ID | Location | Details | |
|---|---|---|---|
| AE | 275m S | Operator: KNAUF UK GMBH<br>Installation Name: IMMINGHAM PLASTERBOARD MANUFACTURER EPR/JP3531PD<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: BP3136QE<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 26/04/2019<br>Effective Date: 26/04/2019<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM<br>Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING)<br>Permit Number: MP3932XW<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 08/12/2009<br>Effective Date: 08/12/2009<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM<br>Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING)<br>Permit Number: JP3531PD<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 20/01/2006<br>Effective Date: 20/01/2006<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: JP3531PD<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 20/01/2006<br>Effective Date: 20/01/2006<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: MP3932XW<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 08/12/2009<br>Effective Date: 08/12/2009<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM EPR/JP3531PD<br>Process: COMBUSTION; ANY FUEL =>50MW<br>Permit Number: SP3430YH<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 14/12/2017<br>Effective Date: 14/12/2017<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AF | 279m S | Operator: KNAUF UK GMBH<br>Installation Name: KNAUF DRYWALL UK GMBH IMMINGHAM EPR/JP3531PD<br>Process: OTHER MINERAL ACTIVITIES; ANY PROCESSING WITH RELEASE OF PARTICULATES INTO AIR (UNLESS A(1) OR A(2)), (EXCEPT STONE ECUTTING)<br>Permit Number: SP3430YH<br>Original Permit Number: JP3531PD | EPR Reference: -<br>Issue Date: 14/12/2017<br>Effective Date: 14/12/2017<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AH | 313m SE | Operator: IMMINGHAM POWER LIMITED<br>Installation Name: IMMINGHAM POWER LIMITED - EPR/RP3131QY<br>Process: TRANCHE B SG PERMITTING DATE 1ST JANUARY 2019<br>Permit Number: RP3131QY<br>Original Permit Number: RP3131QY | EPR Reference: -<br>Issue Date: 04/06/2019<br>Effective Date: 04/06/2019<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| AH | 313m SE | Operator: IMMINGHAM POWER LIMITED<br>Installation Name: IMMINGHAM POWER LIMITED - EPR/RP3131QY<br>Process: TRANCHE B SG PERMITTING DATE 1ST JANUARY 2019<br>Permit Number: XP3309LE<br>Original Permit Number: RP3131QY | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 01/07/2021<br>Status: DETERMINATION |
| AH | 313m SE | Operator: IMMINGHAM POWER LIMITED<br>Installation Name: IMMINGHAM POWER LIMITED<br>Process: NEW MEDIUM COMBUSTION PLANT<br>Permit Number: RP3131QY<br>Original Permit Number: RP3131QY | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 30/04/2019<br>Status: DETERMINATION |
| AI | 319m SE | Operator: CRAY VALLEY LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR<br>Permit Number: VP3438LV<br>Original Permit Number: VP3438LV | EPR Reference: -<br>Issue Date: 30/11/2006<br>Effective Date: 30/11/2006<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: FP3938NC<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 30/05/2013<br>Effective Date: 30/05/2013<br>Last date noted as effective: 01/07/2013<br>Status: EFFECTIVE |
| AI | 319m SE | Operator: CRAY VALLEY LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ASSOCIATED PROCESS<br>Permit Number: VP3438LV<br>Original Permit Number: VP3438LV | EPR Reference: -<br>Issue Date: 30/11/2006<br>Effective Date: 30/11/2006<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; PLASTIC MATERIALS EG POLYMERS<br>Permit Number: FP3938NC<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 30/05/2013<br>Effective Date: 30/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ASSOCIATED PROCESS<br>Permit Number: BP3336DX<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: -<br>Effective Date: 21/12/2016<br>Last date noted as effective: 01/07/2021<br>Status: SURRENDER EFFECTIVE |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR<br>Permit Number: PP3135FV<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 09/06/2011<br>Effective Date: 09/06/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: CRAY VALLEY LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; POLYMERISING ETC UNSATURATED HYDROCARBONS >50T/12 MONTHS<br>Permit Number: VP3438LV<br>Original Permit Number: VP3438LV | EPR Reference: -<br>Issue Date: 30/11/2006<br>Effective Date: 30/11/2006<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ASSOCIATED PROCESS<br>Permit Number: FP3938NC<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 30/05/2013<br>Effective Date: 30/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ASSOCIATED PROCESS<br>Permit Number: PP3135FV<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 09/06/2011<br>Effective Date: 09/06/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; POLYMERISING ETC UNSATURATED HYDROCARBONS >50T/12 MONTHS<br>Permit Number: PP3135FV<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 09/06/2011<br>Effective Date: 09/06/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: BP3336DX<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: -<br>Effective Date: 21/12/2016<br>Last date noted as effective: 01/07/2021<br>Status: SURRENDER EFFECTIVE |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: ORGANIC CHEMICALS; PLASTIC MATERIALS EG POLYMERS<br>Permit Number: BP3336DX<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: -<br>Effective Date: 21/12/2016<br>Last date noted as effective: 01/07/2021<br>Status: SURRENDER EFFECTIVE |
| AI | 319m SE | Operator: ARKEMA COATINGS RESINS LIMITED<br>Installation Name: RESIN PLANT STALLINGBOROUGH<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT<br>Permit Number: FP3938NC<br>Original Permit Number: PP3135FV | EPR Reference: -<br>Issue Date: 30/05/2013<br>Effective Date: 30/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AM | 432m W | Operator: IMMINGHAM STORAGE COMPANY LTD<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/TP3539MR<br>Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL<br>Permit Number: ZP3439GW<br>Original Permit Number: TP3539MR | EPR Reference: -<br>Issue Date: -<br>Effective Date: 30/03/2009<br>Last date noted as effective: 01/07/2021<br>Status: SURRENDER EFFECTIVE |
| AM | 432m W | Operator: IMMINGHAM STORAGE COMPANY LTD<br>Installation Name: IMMINGHAM EAST TERMINAL EPR/TP3539MR<br>Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL<br>Permit Number: TP3539MR<br>Original Permit Number: TP3539MR | EPR Reference: EA/EPR/TP3539MR/S002<br>Issue Date: 15/06/2007<br>Effective Date: 15/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ASSOCIATED PROCESS<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECOVERY OF COMPONENTS USED FOR POLLUTION ABATEMENT<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; SCREENING ETC COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3335RV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 13/11/2015<br>Effective Date: 13/11/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: DP3134LK<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 21/06/2007<br>Effective Date: 21/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; SCREENING ETC COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: DP3134LK<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 21/06/2007<br>Effective Date: 21/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ASSOCIATED PROCESS<br>Permit Number: XP3335RV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 13/11/2015<br>Effective Date: 13/11/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3335RV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 13/11/2015<br>Effective Date: 13/11/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES<br>Permit Number: YP3938ZR<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 02/05/2013<br>Effective Date: 02/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; SCREENING ETC COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: YP3938ZR<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 02/05/2013<br>Effective Date: 02/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES<br>Permit Number: ZP3032FA<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 15/11/2011<br>Effective Date: 15/11/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ASSOCIATED PROCESS<br>Permit Number: YP3938ZR<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 02/05/2013<br>Effective Date: 02/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: YP3938ZR<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 02/05/2013<br>Effective Date: 02/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION)<br>Permit Number: ZP3032FA<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 15/11/2011<br>Effective Date: 15/11/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ASSOCIATED PROCESS<br>Permit Number: DP3134LK<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 21/06/2007<br>Effective Date: 21/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES<br>Permit Number: DP3134LK<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 21/06/2007<br>Effective Date: 21/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES<br>Permit Number: XP3335RV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 13/11/2015<br>Effective Date: 13/11/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION)<br>Permit Number: YP3938ZR<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 02/05/2013<br>Effective Date: 02/05/2013<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; CRUSHING ETC OF COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: ZP3032FA<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 15/11/2011<br>Effective Date: 15/11/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; LOADING ETC COAL ETC (EXCEPT ON RETAIL SALE) (UNLESS EXEMPT LOCATION)<br>Permit Number: DP3134LK<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 21/06/2007<br>Effective Date: 21/06/2007<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ACTIVITIES INVOLVING THE LIQUEFACTION, GASIFICATION WITH A VIEW TO MAKING CHARCOAL<br>Permit Number: XP3033DV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 17/03/2016<br>Effective Date: 17/03/2016<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; SCREENING ETC COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: XP3335RV<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 13/11/2015<br>Effective Date: 13/11/2015<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: ASSOCIATED PROCESS<br>Permit Number: ZP3032FA<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 15/11/2011<br>Effective Date: 15/11/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AP | 450m NW | Operator: COAL PRODUCTS LIMITED<br>Installation Name: IMMINGHAM BRIQUETTING WORKS EPR/DP3134LK<br>Process: OTHER MINERAL ACTIVITIES; SCREENING ETC COAL ETC (UNLESS EXEMPT LOCATION)<br>Permit Number: ZP3032FA<br>Original Permit Number: DP3134LK | EPR Reference: -<br>Issue Date: 15/11/2011<br>Effective Date: 15/11/2011<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: ENVA BATTERY RECYCLING LIMITED<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: ASSOCIATED PROCESS<br>Permit Number: NP3803MM<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 19/04/2021<br>Effective Date: 19/04/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |
| AQ | 478m W | Operator: ENVA BATTERY RECYCLING LIMITED<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1<br>Permit Number: NP3803MM<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 19/04/2021<br>Effective Date: 19/04/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |

| ID | Location | Details | |
|---|---|---|---|
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: S.A.R. RECYCLING LTD<br>EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECOVERY OF COMPONENTS FROM CATALYSTS<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 03/12/2018<br>Status: DETERMINATION |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: S.A.R. RECYCLING LTD<br>EPR/CP3294LE<br>Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 03/12/2018<br>Status: DETERMINATION |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: S.A.R. RECYCLING LTD<br>EPR/CP3294LE<br>Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING TREATMENT IN SHREDDERS OF METAL WASTE, INCLUDING WEEE AND ELV AND THEIR COMPONENTS<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 03/12/2018<br>Status: DETERMINATION |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM BATTERY RECYCLING EPR/CP3294LE<br>Process: ASSOCIATED PROCESS<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 12/12/2018<br>Effective Date: 12/12/2018<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: ENVA BATTERY RECYCLING LIMITED<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: NP3803MM<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 19/04/2021<br>Effective Date: 19/04/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |

| ID | Location | Details | |
|---|---|---|---|
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: BP3005BW<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 29/06/2020<br>Effective Date: 29/06/2020<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: BP3005BW<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 29/06/2020<br>Effective Date: 29/06/2020<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: ASSOCIATED PROCESS<br>Permit Number: UP3309LC<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 27/01/2021<br>Effective Date: 27/01/2021<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: UP3309LC<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 27/01/2021<br>Effective Date: 27/01/2021<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: ENVA BATTERY RECYCLING LIMITED<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: NP3803MM<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 19/04/2021<br>Effective Date: 19/04/2021<br>Last date noted as effective: 01/07/2021<br>Status: EFFECTIVE |

| ID | Location | Details | |
|---|---|---|---|
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM BATTERY RECYCLING EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 12/12/2018<br>Effective Date: 12/12/2018<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: ASSOCIATED PROCESS<br>Permit Number: BP3005BW<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 29/06/2020<br>Effective Date: 29/06/2020<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1<br>Permit Number: BP3005BW<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 29/06/2020<br>Effective Date: 29/06/2020<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM BATTERY RECYCLING EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 12/12/2018<br>Effective Date: 12/12/2018<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM BATTERY RECYCLING EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 12/12/2018<br>Effective Date: 12/12/2018<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

| ID | Location | Details | |
|---|---|---|---|
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM BATTERY RECYCLING EPR/CP3294LE<br>Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED<br>Permit Number: SP3038JL<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 12/12/2018<br>Effective Date: 12/12/2018<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1<br>Permit Number: UP3309LC<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 27/01/2021<br>Effective Date: 27/01/2021<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |
| AQ | 478m W | Operator: S.A.R. RECYCLING LTD<br>Installation Name: IMMINGHAM MATERIALS RECYCLING FACILITY - EPR/CP3294LE<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: UP3309LC<br>Original Permit Number: SP3038JL | EPR Reference: -<br>Issue Date: 27/01/2021<br>Effective Date: 27/01/2021<br>Last date noted as effective: 01/07/2021<br>Status: SUPERCEDED |

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

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

**Records within 500m** **12**

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 68**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| **A** | **On site** | **Hargreaves Industrial Services, Robinson Road, Immingham Dock, DN40 2QN** | **Process: Coal & Coke**<br>**Status: Current Permit**<br>**Permit Type: Part B** | **Enforcement: No Enforcements Notified**<br>**Date of enforcement: No Enforcements Notified**<br>**Comment: No Enforcements Notified** |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| **A** | **On site** | **Hargreaves Services Ltd, Robinson Road, Eastern Entrance, Immingham Dock, Immingham, North East Lincolnshire, DN40 2QN** | **Process: Coal & Coke<br>Status: Historical Permit<br>Permit Type: Part B** | **Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified** |
| J | 51m E | WTG Treatment Ltd, Shed 6, Immingham Dock, Immingham, North East Lincolnshire, DN40 2LZ | Process: Timber Manufacture<br>Status: Current Permit<br>Permit Type: Part A2 | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 29 | 149m S | PD Ports, Unit 7, Laporte Road, Stallingborough, DN40 2PR | Process: Coal & Coke<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 38 | 216m N | Ringway,Eastern Entrance, Immingham Dock, Immingham, North East Lincolnshire, DN40 2LZ | Process: Roadstone Coating Processes<br>Status: Surrendered<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| AB | 256m SW | Knauf UK GMBH (Gypsum), Immingham Dock, Immingham, North East Lincolnshire, DN40 1QS | Process: Other Mineral Processes<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| AC | 260m NE | Solent Stevedores Ltd, Shed 8, Alexandra Road, Immingham Dock, Immingham, Noth East Lincolnshire, DN40 2NS | Process: Use of Bulk Cement<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| AC | 273m NE | Swallow Stevedores Ltd, Quays & Jetties, Immingham Dock, North East Lincolnshire, DN40 2NS | Process: Coal & Coke<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 46 | 279m N | Cemex (Quayside Plantat Immingham or Grimby), Imingham Dock, Alexandra Roadd South, Immingham, DN40 2QW | Process: Use of Bulk Cement<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 53 | 391m W | Isotank Services Ltd, Unit 36, Pelham Industrial Estate, Manby Road, Immingham, North East Lincolnshire, DN40 1PC | Process: Waste Oil Burner 0.4 MW<br>Status: New Legislation Applies<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| E | 401m NW | Grimsby & Immingham Stevedores, Quays & Jetties, Immingham Dock, Immingham, North East Lincolnshire, DN36 4AS | Process: Coal & Coke<br>Status: Surrendered<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| AP | 473m NW | Hargreaves Pad 2, Immingham Dock, Immingham, North East Lincolnshire, DN40 2LY | Process: Coal & Coke<br>Status: Surrendered<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

**Records within 500m** **1**

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

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 54 | 409m W | Immingham East Terminal, East Riverside, Immingham Dock, Immingham, DN40 2QW | Operator: Inter Terminals Immingham Limited<br>Type: -<br>Permission number: KB3833DE<br>Date of approval: - | Effective from: 31/10/2013<br>Last date of update: 01/01/2020<br>Status: Issued |

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

## 4.13 Licensed Discharges to controlled waters

**Records within 500m** **40**

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 68**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 3 | On site | LIQUID SULPHUR TERM'L, IMMINGHAM DOCK, IMMINGHAM, S. HUMBERSIDE | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3NFF400<br>Permit Version: 1<br>Receiving Water: Unknown Trib. | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 18/09/1963<br>Effective Date: 18/09/1963<br>Revocation Date: 23/04/1996 |
| 7 | On site | FISONS FERTILIZERS, IMMINGHAM DOCK, IMMINGHAM EAST | Effluent Type: TRADE DISCHARGES - COOLING WATER<br>Permit Number: PR3TSF518<br>Permit Version: 1<br>Receiving Water: Immingham Dock River Humber | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 18/11/1965<br>Effective Date: 18/11/1965<br>Revocation Date: 18/05/1995 |
| D | On site | IMMINGHAM DOCK, IMMINGHAM EAST, GRIMSBY, SOUTH HUMBERSIDE. | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: PR3TS460<br>Permit Version: 1<br>Receiving Water: River Humber | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 05/10/1988<br>Effective Date: 05/10/1988<br>Revocation Date: 27/02/1990 |
| D | On site | IMMINGHAM DOCK, IMMINGHAM EAST, GRIMSBY, SOUTH HUMBERSIDE. | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3TS460<br>Permit Version: 2<br>Receiving Water: River Humber | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 28/02/1990<br>Effective Date: 28/02/1990<br>Revocation Date: 18/05/1995 |
| D | On site | IMMINGHAM DOCK, IMMINGHAM EAST, GRIMSBY, SOUTH HUMBERSIDE. | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: PRNTS18163<br>Permit Version: 1<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 27/05/2005<br>Effective Date: 27/05/2005<br>Revocation Date: 11/12/2005 |
| D | On site | IMMINGHAM DOCK, IMMINGHAM EAST, GRIMSBY, SOUTH HUMBERSIDE. | Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED<br>Permit Number: PRNTS18163<br>Permit Version: 2<br>Receiving Water: RIVER HUMBER | Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br>Issue date: 12/12/2005<br>Effective Date: 12/12/2005<br>Revocation Date: - |
| 10 | 10m NW | ROBINSON RD, IMMINGHAM DOCK EAST, IMMINGHAM, S HUMBERSIDE | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PRNLF09928<br>Permit Version: 1<br>Receiving Water: land | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 29/03/1996<br>Effective Date: 29/03/1996<br>Revocation Date: 30/06/1998 |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 12 | 20m SW | WAGON DEPOT HABROUGH HUMBERSIDE | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3NFF970<br>Permit Version: 2<br>Receiving Water: Habrough Marsh Drain | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 18/01/1973<br>Effective Date: 18/01/1973<br>Revocation Date: - |
| C | 30m E | OIL DEPOT IMMINGHAM | Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3NFF658<br>Permit Version: 1<br>Receiving Water: Harborough Marsh Drain | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 03/10/1967<br>Effective Date: 03/10/1967<br>Revocation Date: 30/09/1993 |
| C | 30m E | OIL DEPOT IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3NFF656<br>Permit Version: 1<br>Receiving Water: Habrough Marsh Drain | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 03/10/1967<br>Effective Date: 03/10/1967<br>Revocation Date: 01/04/1992 |
| 18 | 47m S | CUSTOMS SEARCH ROOM, IMMINGHAM, N.E. LINCOLNSHIRE | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3NFF771<br>Permit Version: 1<br>Receiving Water: The Harborough Marsh Drain | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 29/05/1969<br>Effective Date: 29/05/1969<br>Revocation Date: 01/07/1991 |
| J | 69m E | BUNDED TANK STORAGE AREA, HUMBER OIL TERMINALS TRUSTEE LT | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY<br>Permit Number: PR3NFF657<br>Permit Version: 1<br>Receiving Water: The Harborough Marsh Drain | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 03/10/1967<br>Effective Date: 03/10/1967<br>Revocation Date: 12/02/1990 |
| 23 | 79m SW | WAGON MAINTENANCE DEPOT, HABROUGH, S HUMBERSIDE | Effluent Type: UNSPECIFIED<br>Permit Number: PR3LFU597<br>Permit Version: 1<br>Receiving Water: Land | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 04/01/1973<br>Effective Date: 04/01/1973<br>Revocation Date: 01/10/1996 |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 34 | 186m SE | UNIT 7 LAPORTE RD, LAPORTE ROAD | Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER<br>Permit Number: PR3NFF715<br>Permit Version: 1<br>Receiving Water: Stallingborough North Beck | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 30/05/1968<br>Effective Date: 30/05/1968<br>Revocation Date: - |
| AD | 261m SE | M/H QUEEN'S ROAD PS, IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: ANNNF10243<br>Permit Version: 1<br>Receiving Water: unnamed tributary North Beck D | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 28/08/1992<br>Effective Date: 28/08/1992<br>Revocation Date: 24/05/1995 |
| AD | 261m SE | M/H QUEEN'S ROAD PS, IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: ANNNF1767<br>Permit Version: 1<br>Receiving Water: - | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 15/09/1990<br>Effective Date: 15/09/1990<br>Revocation Date: 08/04/1991 |
| AD | 261m SE | M/H QUEEN'S ROAD PS, IMMINGHAM | Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES<br>Permit Number: ANNNF2288<br>Permit Version: 1<br>Receiving Water: North Beck Drain River Humber | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 02/01/1990<br>Effective Date: 02/01/1990<br>Revocation Date: 28/08/1992 |
| AD | 261m SE | M/H QUEEN'S ROAD PS, IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: ANNNF10243<br>Permit Version: 2<br>Receiving Water: unnamed tributary North Beck D | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 25/05/1995<br>Effective Date: 25/05/1995<br>Revocation Date: - |
| 47 | 285m NW | IMMINGHAM STORAGE CO. LTD., IMMINGHAM DOCK, GRIMSBY, S. HUMBERSIDE. | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: PR3TSF1268<br>Permit Version: 1<br>Receiving Water: River Humber | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 22/11/1982<br>Effective Date: 22/11/1982<br>Revocation Date: 19/02/1992 |
| 48 | 306m NE | DOCK SILO, AMENITY BUILDING, CONOCO HUMBER REFINERY, IMMINGHAM. | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3TSF1262<br>Permit Version: 1<br>Receiving Water: Immingham Dock | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 16/06/1982<br>Effective Date: 16/06/1982<br>Revocation Date: 22/03/1992 |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 50 | 332m SE | EO NO 1 IMMINGHAM, SEWERAGE SCHEME | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AW3NFF766<br>Permit Version: 1<br>Receiving Water: Unknown Trib. North Beck Drain | Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6)<br>Issue date: 29/05/1969<br>Effective Date: 29/05/1969<br>Revocation Date: 14/12/2000 |
| AJ | 349m NW | IMMINGHAM STORAGE COMPANY, IMMINGHAM EAST TERMINAL, IMMINGHAM EAST DOCK, IMMINGHAM, DN40 2QW | Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED<br>Permit Number: EPRLP3024XB<br>Permit Version: 1<br>Receiving Water: THE RIVER HUMBER | Status: VARIED UNDER EPR 2010<br>Issue date: 01/02/2012<br>Effective Date: 01/02/2012<br>Revocation Date: - |
| AK | 360m S | DIAMOND PLAST/BOARD STE, KINGS ROAD, IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PRNNF01947<br>Permit Version: 1<br>Receiving Water: Watercourse | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 07/12/1989<br>Effective Date: 07/12/1989<br>Revocation Date: 11/02/1992 |
| AK | 360m S | DIAMOND PLAST/BOARD STE, KINGS ROAD, IMMINGHAM | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PRNNF01947<br>Permit Version: 2<br>Receiving Water: Watercourse | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 12/02/1992<br>Effective Date: 12/02/1992<br>Revocation Date: 13/05/1993 |
| AL | 363m SW | IMMINGHAM OUTFALL | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: AW3TS223<br>Permit Version: 1<br>Receiving Water: River Humber T The Sea | Status: REVOKED NEW CONSENT ISSUED (WATER ACT 1989 SECTION 113)<br>Issue date: 22/03/1989<br>Effective Date: 22/03/1989<br>Revocation Date: 12/04/2005 |
| AL | 363m SW | IMMINGHAM OUTFALL | Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY<br>Permit Number: AW3TSF619<br>Permit Version: 1<br>Receiving Water: River Humber T The Sea | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 28/02/1967<br>Effective Date: 28/02/1967<br>Revocation Date: 27/09/1983 |
| AL | 363m SW | IMMINGHAM OUTFALL | Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY<br>Permit Number: AW3TSF619<br>Permit Version: 2<br>Receiving Water: River Humber T The Sea | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 28/09/1983<br>Effective Date: 28/09/1983<br>Revocation Date: 17/09/1989 |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| AL | 363m SW | IMMINGHAM OUTFALL | Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY<br>Permit Number: AW3TSF619<br>Permit Version: 3<br>Receiving Water: River Humber T The Sea | Status: REVOKED NEW CONSENT ISSUED (WATER ACT 1989 SECTION 113)<br>Issue date: 18/09/1989<br>Effective Date: 18/09/1989<br>Revocation Date: 12/04/2005 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 1<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 31/03/2005<br>Effective Date: 31/03/2005<br>Revocation Date: 31/12/2009 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 1<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 31/03/2005<br>Effective Date: 31/03/2005<br>Revocation Date: 31/12/2009 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES<br>Permit Number: ANNTS13654<br>Permit Version: 1<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 31/03/2005<br>Effective Date: 31/03/2005<br>Revocation Date: 31/12/2009 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 2<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 24/09/2009<br>Effective Date: 01/01/2010<br>Revocation Date: 25/08/2020 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 2<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 24/09/2009<br>Effective Date: 01/01/2010<br>Revocation Date: 25/08/2020 |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 2<br>Receiving Water: RIVER HUMBER | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 24/09/2009<br>Effective Date: 01/01/2010<br>Revocation Date: 25/08/2020 |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 3<br>Receiving Water: THE RIVER HUMBER | Status: VARIED UNDER EPR 2010<br>Issue date: 26/08/2020<br>Effective Date: 26/08/2020<br>Revocation Date: - |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 3<br>Receiving Water: THE RIVER HUMBER | Status: VARIED UNDER EPR 2010<br>Issue date: 26/08/2020<br>Effective Date: 26/08/2020<br>Revocation Date: - |
| AN | 414m NE | IMMINGHAM WATER RECYCLING CENTRE, QUEENS ROAD, IMMINGHAM, LINCOLNSHIRE, DN41 8DX | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: ANNTS13654<br>Permit Version: 3<br>Receiving Water: THE RIVER HUMBER | Status: VARIED UNDER EPR 2010<br>Issue date: 26/08/2020<br>Effective Date: 26/08/2020<br>Revocation Date: - |
| AN | 446m NE | IMMINGHAM STW PS | Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES<br>Permit Number: ANNNF1766<br>Permit Version: 1<br>Receiving Water: - | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 15/09/1990<br>Effective Date: 15/09/1990<br>Revocation Date: 08/04/1991 |
| AN | 446m NE | IMMINGHAM STW PS | Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES<br>Permit Number: ANNNF2397<br>Permit Version: 1<br>Receiving Water: Humber Estuary | Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6)<br>Issue date: 02/01/1990<br>Effective Date: 02/01/1990<br>Revocation Date: 14/12/2000 |
| 59 | 481m W | E JETTY IMMINGHAM DOCK | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: PR3TSF965<br>Permit Version: 1<br>Receiving Water: River Humber | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: 26/09/1972<br>Effective Date: 26/09/1972<br>Revocation Date: 16/02/1992 |

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

## 4.14 Pollutant release to surface waters (Red List)

| Records within 500m | 2 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| AJ | 349m NW | IMMINGHAM STORAGE LIMITED, IMMINGHAM STORAGE COMPANY, IMMINGHAM EAST TERMINAL, IMMINGHAM EAST DOCK, IMMINGHAM, DN40 2QW | Permit Number: EPRLP3024XB<br>Permit Version: 1<br>Status: VARIED UNDER EPR 2010<br>Discharge Type: Sewage disposal works - other | Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED<br>Catchment: SKITTER BECK (IMMINGHAM)<br>Approval Date: 2012-02-01T00:00:00.000Z |
| AJ | 349m NW | INTER TERMINALS IMMINGHAM LIMITED, IMMINGHAM STORAGE COMPANY, IMMINGHAM EAST TERMINAL, IMMINGHAM EAST DOCK, IMMINGHAM, DN40 2QW | Permit Number: EPRLP3024XB<br>Permit Version: 1<br>Status: VARIED UNDER EPR 2010<br>Discharge Type: WwTW (not water co) (not STP at a private premises) | Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED<br>Catchment: SKITTER BECK (IMMINGHAM)<br>Approval Date: 2012-02-01T00:00:00.000Z |

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

## 4.15 Pollutant release to public sewer

| Records within 500m | 4 |
|---|---|

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| Q | 186m SW | Inspectorate International Limited, UNIT 7 PRINCE WILLIAM DRIVE, QUEENS ROAD, IMMINGHAM, NORTH LINCS, DN40 1QR | Permission reference: SCE0100C2<br>Local Authority: NORTH LINCOLNSHIRE<br>First received date: 04/01/2013 | Last received date: 01/01/2018<br>Status: EFFECTIVE |
| S | 187m S | INTEGRATED WASTE MANAGEMENT LTD, IMMINGHAM LANDFILL SITE, QUEENS ROAD, IMMINGHAM, GRIMSBY, NORTH LINCS, DN40 1QR | Permission reference: BR6384<br>Local Authority: NORTH EAST LINCOLNSHIRE<br>First received date: 01/06/2003 | Last received date: 01/01/2018<br>Status: EFFECTIVE |
| S | 187m S | INTEGRATED WASTE MANAGEMENT LTD, IMMINGHAM LANDFILL SITE, QUEENS ROAD, IMMINGHAM, GRIMSBY, NORTH LINCS, DN40 1QR | Permission reference: BK2925<br>Local Authority: NORTH EAST LINCOLNSHIRE<br>First received date: 01/07/2010 | Last received date: 01/01/2018<br>Status: EFFECTIVE |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| Y | 241m SW | IMMINGHAM TANKWASH LTD, MIDDLEPLATT ROAD, IMMINGHAM, GRIMSBY, NORTH LINCS, DN40 1AH | Permission reference: BM2802<br>Local Authority: NORTH EAST LINCOLNSHIRE<br>First received date: 01/06/2003 | Last received date: 01/01/2018<br>Status: EFFECTIVE |

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

## 4.16 List 1 Dangerous Substances

**Records within 500m** **8**

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.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Name | Status | Receiving Water | Authorised Substances |
|---|---|---|---|---|---|
| **D** | **On site** | **Hydro Agri** | **Active** | **R Humber, River Humber, R. Humber** | **Mercury (other), Cadmium** |
| R | 142m SE | Immingham Oil Terminal | Active | Any | Mercury (other), Cadmium |
| U | 186m SW | Immingham Tank Wash Limited | Active | Na | Mercury (other) |
| AL | 364m SW | Immingham Landfill Site | Active | River Humber | Mercury (other), Cadmium, Hexachlorocyclohexane, Carbon tetrachloride, Pentachlorophenol, Aldrin, Dieldrin, Endrin, Hexachlorobenzene, Hexachlorobutadiene, 1,2-dichloroethane, Trichlorobenzene, Total DDT |
| AL | 364m SW | Tankclean Tankwash | Active | River Humber | Mercury (other) |
| AL | 364m SW | Immingham Stw | Not Active | - | - |
| AM | 433m W | Immingham Storage Ltd | Not Active | River Humber, R. Humber | Mercury (other), Carbon tetrachloride, Chloroform, 1,2-dichloroethane, Trichloroethylene, Perchlorethylene |
| AN | 447m NE | Riverside Electroplaters | Active | River Humber | Cadmium |

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

## 4.17 List 2 Dangerous Substances

**Records within 500m** **19**

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.

Features are displayed on the Current industrial land use map on **page 68**

| ID | Location | Name | Status | Receiving Water | Authorised Substances |
|---|---|---|---|---|---|
| **D** | **On site** | **Hydro Agri** | **Active** | **-** | **-** |
| C | 31m E | Associated Petroleum Terminals | Active | River Humber | Iron, Zinc |
| K | 98m SW | English Welsh & Scotish Railway Ltd | Not Active | Na | pH |
| R | 142m SE | Immingham Oil Terminal | Active | None | Zinc |
| S | 177m S | Jefco Services Ltd | Not Active | Na | pH |
| U | 186m SW | Tankclean Tankwash | Active | River Humber | Chromium, Copper, Lead, Nickel, Zinc, Phenol |
| 45 | 275m SW | Immingham Stw | Not Active | - | - |
| AL | 364m SW | Immingham Landfill Site | Not Active | River Humber | Cyanide, Dichlorvos, Tributyltin, Triphenyltin, Atrazine & Simazine, Azinphos-methyl, Endosulphan, Fenitrothion, Malathion, Trifluralin, Biphenyl |
| AL | 364m SW | Isotank Services Ltd | Active | Na | Chromium, Copper, Lead, Nickel, pH, Zinc |
| AL | 364m SW | Encycle Immingham | Active | Na | pH, Zinc |
| AL | 364m SW | Shand Engineering Ltd | Active | Na | Chromium, Copper, Lead, Nickel, pH, Zinc |
| AL | 364m SW | Meldan Fabrication Limited | Active | - | Copper, pH, Zinc |
| AL | 364m SW | Sports & Leisure Management Ltd | Not Active | Na | pH |
| AL | 364m SW | Tankclean Tankwash | Active | Na | Chromium, Copper, Lead, Nickel, pH, Zinc |

| ID | Location | Name | Status | Receiving Water | Authorised Substances |
|---|---|---|---|---|---|
| AL | 364m SW | Meldan Fabrication Limited | Not Active | Na | Copper, pH, Zinc |
| AL | 364m SW | Encycle Immingham | Not Active | Na | pH, Zinc |
| AL | 364m SW | George Revill (haulage) Limited | Not Active | Na | pH |
| AL | 364m SW | Cemex - Immingham Concrete Plant | Not Active | Na | pH |
| AL | 364m SW | Immingham Sewage Treatment Works | Not Active | - | - |

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

## 4.18 Pollution Incidents (EA/NRW)

| Records within 500m | 6 |
|---|---|

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 68**

| ID | Location | Details | |
|---|---|---|---|
| **C** | **On site** | **Incident Date: 20/08/2001**<br>**Incident Identification: 25426**<br>**Pollutant: Oils and Fuel**<br>**Pollutant Description: Unidentified Oil** | **Water Impact: Category 3 (Minor)**<br>**Land Impact: Category 4 (No Impact)**<br>**Air Impact: Category 4 (No Impact)** |
| 49 | 324m W | Incident Date: 21/02/2003<br>Incident Identification: 138438<br>Pollutant: Organic Chemicals/Products<br>Pollutant Description: Adhesives | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| W | 338m SE | Incident Date: 27/06/2003<br>Incident Identification: 169246<br>Pollutant: Organic Chemicals/Products<br>Pollutant Description: Other Organic Chemical or Product | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |

| ID | Location | Details | |
|---|---|---|---|
| AO | 428m SW | Incident Date: 26/06/2001<br>Incident Identification: 11596<br>Pollutant: Inorganic Chemicals/Products<br>Pollutant Description: Other Inorganic Chemical or Product | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| AO | 428m SW | Incident Date: 26/06/2001<br>Incident Identification: 11596<br>Pollutant: Inorganic Chemicals/Products<br>Pollutant Description: Other Inorganic Chemical or Product | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 58 | 476m SW | Incident Date: 23/10/2003<br>Incident Identification: 200068<br>Pollutant: Organic Chemicals/Products<br>Pollutant Description: Paints and Varnishes | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |

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

## 4.19 Pollution inventory substances

| **Records within 500m** | **29** |
|---|---|

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.

Features are displayed on the Current industrial land use map on **page 68**

ID: I, Location: 150m NW, Permit: LP3024XB
Operator: Inter Terminals Immingham Limited
Activity: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D
Address: Immingham East Terminal Inter Terminals Immingham Ltd East Riverside Immingham Dock North East Lincolnshire DN402QW
Sector: Waste Treatment, Sub-sector: Hazardous
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Benzene | 10kg | Below Reporting Threshold |
| Controlled Waters | Carbon tetrachloride (Tetrachloromethane) | 1kg | Below Reporting Threshold |
| Controlled Waters | Chloroform (Trichloromethane) | 5kg | Below Reporting Threshold |
| Controlled Waters | Chromium | 20kg | Below Reporting Threshold |

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Copper | 20kg | Below Reporting Threshold |
| Controlled Waters | Ethylene dichloride (1,2-Dichloroethane) | 10kg | Below Reporting Threshold |
| Controlled Waters | Iron | 1000kg | Below Reporting Threshold |
| Controlled Waters | Lead | 20kg | Below Reporting Threshold |
| Controlled Waters | Mercury | 0.1kg | Below Reporting Threshold |
| Controlled Waters | Nickel | 20kg | Below Reporting Threshold |
| Controlled Waters | Phenols - total as C | 20kg | Below Reporting Threshold |
| Controlled Waters | Toluene | 10kg | Below Reporting Threshold |
| Controlled Waters | Xylene - all isomers | 10kg | Below Reporting Threshold |
| Controlled Waters | Zinc | 100kg | Below Reporting Threshold |

ID: F, Location: 151m NE, Permit: UP3830LG
Operator: Associated Petroleum Terminals Ltd
Activity: Crude oil
Address: Immingham Oil Terminal Associated Petroleum Terminals (Immingham) Limited Queens Road South Humberside DN40 2PN
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Arsenic | 5kg | Below Reporting Threshold |
| Controlled Waters | Benzene | 10kg | Below Reporting Threshold |
| Air | Benzene | 1000kg | Below Reporting Threshold |
| Air | Butadiene (1,3-Butadiene) | 100kg | Below Reporting Threshold |
| Controlled Waters | Cadmium | 1kg | Below Reporting Threshold |
| Controlled Waters | Chromium | 20kg | Below Reporting Threshold |
| Controlled Waters | Copper | 20kg | Below Reporting Threshold |
| Controlled Waters | Lead | 20kg | Below Reporting Threshold |
| Controlled Waters | Mercury | 0.1kg | Below Reporting Threshold |
| Controlled Waters | Nickel | 20kg | Below Reporting Threshold |
| Controlled Waters | Toluene | 10kg | Below Reporting Threshold |

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Xylene - all isomers | 10kg | Below Reporting Threshold |
| Controlled Waters | Zinc | 100kg | Below Reporting Threshold |

ID: AF, Location: 279m S, Permit: JP3531PD
Operator: Knauf UK GmbH
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Immingham Plasterboard Manufacturer Queens Road Noth East Lincolnshire DN40 1QT
Sector: Cement and Minerals, Sub-sector: Minerals
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Methane | 10000kg | Below Reporting Threshold |
| Air | Nitrogen oxides (NO and NO2) as NO2 | 100000kg | Below Reporting Threshold |

ID: AF, Location: 279m S, Permit: JP3531PD
Operator: Knauf UK GmbH
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Immingham Plasterboard Manufacturer Queens Road Noth East Lincolnshire DN40 1QT
Sector: Cement and Minerals, Sub-sector: Minerals
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Carbon dioxide | 10000000kg | 66731000kg |

ID: AH, Location: 314m SE, Permit: VP3032EZ
Operator: UK Power Reserve Limited
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector: Combustion, Sub-sector: Power
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Methane | 10000kg | 68229kg |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Alachlor | 0.1kg | Below Reporting Threshold |
| Wastewater | Aldrin | 0.0005kg | Below Reporting Threshold |
| Wastewater | Anthracene | 0.1kg | Below Reporting Threshold |
| Wastewater | Arsenic | 5kg | Below Reporting Threshold |
| Wastewater | Asbestos | 0.1kg | Below Reporting Threshold |
| Wastewater | Atrazine | 0.05kg | Below Reporting Threshold |
| Air | Benzene | 1000kg | Below Reporting Threshold |
| Wastewater | Benzene | 10kg | Below Reporting Threshold |
| Wastewater | Benzo(a)pyrene | 1kg | Below Reporting Threshold |
| Wastewater | Benzo(b)fluoranthene | 1kg | Below Reporting Threshold |
| Wastewater | Benzo(g,h,i)perylene | 0.1kg | Below Reporting Threshold |
| Wastewater | Benzo(k)fluoranthene | 1kg | Below Reporting Threshold |
| Wastewater | Brominated diphenylethers - penta-, octa- and deca- BDE | 0.1kg | Below Reporting Threshold |
| Air | Butadiene (1,3-Butadiene) | 100kg | Below Reporting Threshold |
| Wastewater | Cadmium | 1kg | Below Reporting Threshold |
| Air | Carbon dioxide | 10000000kg | Below Reporting Threshold |
| Air | Carbon monoxide | 100000kg | Below Reporting Threshold |
| Air | Carbon tetrachloride (Tetrachloromethane) | 10kg | Below Reporting Threshold |
| Wastewater | Carbon tetrachloride (Tetrachloromethane) | 1kg | Below Reporting Threshold |
| Wastewater | Chlordane | 0.1kg | Below Reporting Threshold |
| Wastewater | Chlordecone | 0.1kg | Below Reporting Threshold |
| Wastewater | Chlorfenvinphos | 0.1kg | Below Reporting Threshold |
| Wastewater | Chlorides - as Cl | 2000000kg | Below Reporting Threshold |

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Chloroform (Trichloromethane) | 100kg | Below Reporting Threshold |
| Wastewater | Chloroform (Trichloromethane) | 5kg | Below Reporting Threshold |
| Wastewater | Chlorpyrifos | 0.1kg | Below Reporting Threshold |
| Wastewater | Chromium | 20kg | Below Reporting Threshold |
| Wastewater | Copper | 20kg | Below Reporting Threshold |
| Wastewater | Cyanides - as CN | 50kg | Below Reporting Threshold |
| Wastewater | Cypermethrin | 0.005kg | Below Reporting Threshold |
| Wastewater | Di(2-ethylhexyl)phthalate (DEHP) | 0.1kg | Below Reporting Threshold |
| Wastewater | Dichlorodiphenyltrichloroethane (DDT) | 0.0005kg | Below Reporting Threshold |
| Air | Dichloromethane (DCM) (Methylene chloride) | 1000kg | Below Reporting Threshold |
| Wastewater | Dichloromethane (DCM) (Methylene chloride) | 10kg | Below Reporting Threshold |
| Wastewater | Dichlorvos | 0.0005kg | Below Reporting Threshold |
| Wastewater | Dieldrin | 0.0005kg | Below Reporting Threshold |
| Wastewater | Dioxins and furans (PCDDs/PCDFs) - as ITEQ | 0.0001kg | Below Reporting Threshold |
| Wastewater | Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ | 0.0001kg | Below Reporting Threshold |
| Wastewater | Diuron | 0.05kg | Below Reporting Threshold |
| Wastewater | Endosulfan | 0.0005kg | Below Reporting Threshold |
| Wastewater | Endrin | 0.0005kg | Below Reporting Threshold |
| Wastewater | Ethyl benzene | 10kg | Below Reporting Threshold |
| Wastewater | Ethylene dichloride (1,2-Dichloroethane) | 10kg | Below Reporting Threshold |
| Wastewater | Ethylene oxide (1,2 Epoxyethane) | 1kg | Below Reporting Threshold |
| Wastewater | Fluoranthene | 0.1kg | Below Reporting Threshold |
| Wastewater | Fluorides - as F | 2000kg | Below Reporting Threshold |
| Wastewater | Halogenated organic compounds - as AOX | 1000kg | Below Reporting Threshold |
| Wastewater | Heptachlor | 0.1kg | Below Reporting Threshold |
| Wastewater | Hexabromobiphenyl | 0.1kg | Below Reporting Threshold |
| Wastewater | Hexabromocyclododecane | 0.1kg | Below Reporting Threshold |
| Wastewater | Hexachlorobenzene (HCB) | 0.01kg | Below Reporting Threshold |

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Hexachlorobutadiene | 0.1kg | Below Reporting Threshold |
| Wastewater | Hexachlorocyclohexane (HCH) -all isomers | 0.01kg | Below Reporting Threshold |
| Wastewater | Indeno(1,2,3-cd)pyrene | 1kg | Below Reporting Threshold |
| Wastewater | Iron | 1000kg | Below Reporting Threshold |
| Wastewater | Isodrin | 0.0005kg | Below Reporting Threshold |
| Wastewater | Isoproturon | 0.01kg | Below Reporting Threshold |
| Wastewater | Lead | 20kg | Below Reporting Threshold |
| Wastewater | Lindane | 0.1kg | Below Reporting Threshold |
| Wastewater | Mercury | 0.1kg | Below Reporting Threshold |
| Air | Methyl chloroform (1,1,1-Trichloroethane) | 10kg | Below Reporting Threshold |
| Wastewater | Mirex | 0.1kg | Below Reporting Threshold |
| Wastewater | Naphthalene | 1kg | Below Reporting Threshold |
| Wastewater | Nickel | 20kg | Below Reporting Threshold |
| Wastewater | Nitrogen - as total N | 50000kg | Below Reporting Threshold |
| Air | Nitrogen oxides (NO and NO2) as NO2 | 100000kg | Below Reporting Threshold |
| Air | Non-methane volatile organic compounds (NMVOCs) | 10000kg | Below Reporting Threshold |
| Wastewater | Nonylphenols and nonylphenol ethoxylates | 1kg | Below Reporting Threshold |
| Wastewater | Octylphenols and octylphenol ethoxylates | 1kg | Below Reporting Threshold |
| Wastewater | Organotin compounds - as Sn | 5kg | Below Reporting Threshold |
| Wastewater | Pentachlorobenzene | 0.1kg | Below Reporting Threshold |
| Wastewater | Pentachlorophenol (PCP) | 0.05kg | Below Reporting Threshold |
| Wastewater | Perfluoro octanyl sulphate (PFOS) | 0.1kg | Below Reporting Threshold |
| Wastewater | Phenols - total as C | 20kg | Below Reporting Threshold |
| Wastewater | Phosphorus - as total P | 5000kg | Below Reporting Threshold |
| Wastewater | Polychlorinated biphenyls (PCBs) | 0.001kg | Below Reporting Threshold |
| Wastewater | Polychlorinated biphenyls (PCBs) - as WHO TEQ | 0.0001kg | Below Reporting Threshold |
| Wastewater | Short chain (C10-13) chlorinated paraffins (SCCPs) | 0.1kg | Below Reporting Threshold |
| Wastewater | Simazine | 0.01kg | Below Reporting Threshold |

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Sulphur oxides (SO2 and SO3) as SO2 | 100000kg | Below Reporting Threshold |
| Air | Tetrachloroethane (1,1,2,2-Tetrachloroethane) | 10kg | Below Reporting Threshold |
| Wastewater | Tetrachloroethylene (PER) | 1kg | Below Reporting Threshold |
| Wastewater | Toluene | 10kg | Below Reporting Threshold |
| Wastewater | Total organic carbon (TOC) | 50000kg | Below Reporting Threshold |
| Wastewater | Toxaphene | 0.1kg | Below Reporting Threshold |
| Wastewater | Tributyltin and compounds - as TBT | 0.005kg | Below Reporting Threshold |
| Wastewater | Trichlorobenzene - all isomers | 0.01kg | Below Reporting Threshold |
| Air | Trichlorobenzene - all isomers | 1kg | Below Reporting Threshold |
| Wastewater | Trichloroethylene | 1kg | Below Reporting Threshold |
| Air | Trichloroethylene | 1000kg | Below Reporting Threshold |
| Wastewater | Trifluralin | 0.001kg | Below Reporting Threshold |
| Wastewater | Triphenyltin and compounds - as TPT | 0.1kg | Below Reporting Threshold |
| Wastewater | Vinyl chloride | 1kg | Below Reporting Threshold |
| Air | Vinyl chloride | 1000kg | Below Reporting Threshold |
| Wastewater | Xylene - all isomers | 10kg | Below Reporting Threshold |
| Wastewater | Zinc | 100kg | Below Reporting Threshold |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector: Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Hydrochlorofluorocarbons (HCFCs) | 1kg | 1.76kg |

ID: AH, Location: 314m SE, Permit: VP3032EZ
Operator: UK Power Reserve Limited
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector Combustion, Sub-sector: Power
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Carbon monoxide | 100000kg | Below Reporting Threshold |
| Air | Nitrogen oxides (NO and NO2) as NO2 | 100000kg | Below Reporting Threshold |

ID: AH, Location: 314m SE, Permit: VP3032EZ
Operator: UK Power Reserve Limited
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector Combustion, Sub-sector: Power
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Non-methane volatile organic compounds (NMVOCs) | 10000kg | 22587kg |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Chlorofluorocarbons (CFCs) | 1kg | 1.87kg |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Carbon Dioxide From Qualifying Renewable Fuel Sources | 0kg | 7300000kg |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector: Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Methane | 10000kg | 333000kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Arsenic | 5kg | 14.29kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Copper | 20kg | 48.03kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Dioxins and furans (PCDDs/PCDFs) - as ITEQ | 1e-5kg | 8e-5kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ | 1e-5kg | 7.7e-5kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Nickel | 20kg | 27.8kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Total organic carbon (TOC) | 50000kg | 85947kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Carbon dioxide | 10000000kg | 12633000kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Chromium | 20kg | 26.66kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector Releases: Refineries & Fuel, Sub-sector: Refineries & Fuel

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Controlled Waters | Mercury | 0.1kg | 0.126kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector Releases: Refineries & Fuel, Sub-sector: Refineries & Fuel

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Ammonia | 1000kg | Below Reporting Threshold |
| Air | Benzene | 1000kg | Below Reporting Threshold |
| Controlled Waters | Cadmium | 1kg | Below Reporting Threshold |
| Controlled Waters | Chlorides - as Cl | 2000000kg | Below Reporting Threshold |
| Air | Chlorine and inorganic chlorine compounds - as HCl | 10000kg | Below Reporting Threshold |
| Controlled Waters | Lead | 20kg | Below Reporting Threshold |
| Air | Nitrogen oxides (NO and NO2) as NO2 | 100000kg | Below Reporting Threshold |
| Air | Non-methane volatile organic compounds (NMVOCs) | 10000kg | Below Reporting Threshold |
| Air | Particulate matter - PM2.5 | 1000kg | Below Reporting Threshold |
| Air | Particulate matter - total | 10000kg | Below Reporting Threshold |
| Air | Sulphur oxides (SO2 and SO3) as SO2 | 100000kg | Below Reporting Threshold |
| Controlled Waters | Zinc | 100kg | Below Reporting Threshold |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Particulate matter - PM10 | 1000kg | 1369kg |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Air | Methane | 10000kg | 12759kg |

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Iron | 1000kg | 2355.34kg |

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Copper | 20kg | 133.87kg |

---

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Lead | 20kg | 55.51kg |

---

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Zinc | 100kg | 1408.89kg |

---

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Substance | Reporting threshold (kg) | Quantity (kg) |
|---|---|---|---|
| Wastewater | Cadmium | 1kg | 11.9kg |

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

## 4.20 Pollution inventory waste transfers

| Records within 500m | 6 |
|---|---|

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.

Features are displayed on the Current industrial land use map on **page 68**

ID: I, Location: 150m NW, Permit: LP3024XB
Operator: Inter Terminals Immingham Limited
Activity: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D
Address: Immingham East Terminal Inter Terminals Immingham Ltd East Riverside Immingham Dock North East Lincolnshire DN402QW
Sector: Waste Treatment, Sub-sector: Hazardous
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 13.44 | Absolute Value | 19 08 12 | sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 | No |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 51.5 | Absolute Value | 19 08 12 | sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 26.66 | Absolute Value | 16 03 06 | organic wastes other than those mentioned in 16 03 05 | No |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 14.88 | Absolute Value | 16 10 02 | aqueous liquid wastes other than those mentioned in 16 10 01 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 2825.87 | Absolute Value | 13 02 05 | mineral-based non-chlorinated engine, gear and lubricating oils | Yes |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 165.46 | Absolute Value | 13 02 05 | mineral-based non-chlorinated engine, gear and lubricating oils | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 448.54 | Absolute Value | 19 02 08 | liquid combustible wastes containing dangerous substances | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 484.2 | Absolute Value | 05 06 03 | other tars | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 50.828 | Absolute Value | 13 07 01 | fuel oil and diesel | Yes |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 17.16 | Absolute Value | 13 07 01 | fuel oil and diesel | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 45.14 | Absolute Value | 13 05 07 | oily water from oil/water separators | Yes |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 25.18 | Absolute Value | 13 02 08 | other engine, gear and lubricating oils | Yes |

ID: AF, Location: 279m S, Permit: JP3531PD
Operator: Knauf UK GmbH
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Immingham Plasterboard Manufacturer Queens Road Noth East Lincolnshire DN40 1QT
Sector: Cement and Minerals, Sub-sector: Minerals
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 50.25 | Absolute Value | 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 221.24 | Absolute Value | 15 01 01 | paper and cardboard packaging | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 2.62 | Absolute Value | 16 05 09 | discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 | No |
| R5 | Recycling/reclamation of other inorganic materials | 23261 | Absolute Value | 17 08 02 | gypsum-based construction materials other than those mentioned in 17 08 01 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 2.26 | Absolute Value | 20 01 36 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | No |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 142.78 | Absolute Value | 20 01 38 | wood other than that mentioned in 20 01 37 | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 118 | Absolute Value | 20 03 01 | mixed municipal waste | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 10.16 | Absolute Value | 20 03 04 | septic tank sludge | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 70.86 | Absolute Value | 17 04 02 | aluminium | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 1.13 | Absolute Value | 16 01 03 | end-of-life tyres | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 4.31 | Absolute Value | 13 02 08 | other engine, gear and lubricating oils | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 3.34 | Absolute Value | 15 02 02 | absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances | Yes |
| D1 | Deposit into or onto land (eg landfill, etc.) | 0.15 | Absolute Value | 16 01 14 | antifreeze fluids containing dangerous substances | Yes |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 4.91 | Absolute Value | 16 03 05 | organic wastes containing dangerous substances | Yes |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| D1 | Deposit into or onto land (eg landfill, etc.) | 0.77 | Absolute Value | 16 05 04 | gases in pressure containers (including halons) containing dangerous substances | Yes |
| D1 | Deposit into or onto land (eg landfill, etc.) | 2.21 | Absolute Value | 20 01 29 | detergents containing dangerous substances | Yes |

ID: AH, Location: 314m SE, Permit: PP3830BV
Operator: Integrated Waste Management Ltd
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector: Landfill, Sub-sector: Non Hazardous Landfill
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| D8 | Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12 | 6437 | Absolute Value | 19 07 03 | landfill leachate other than those mentioned in 19 07 02 | No |

ID: AH, Location: 314m SE, Permit: VP3032EZ
Operator: UK Power Reserve Limited
Activity: COMBUSTION; ANY FUEL =>50MW
Address: Queens Road Immingham Lincolnshire DN40 1QR
Sector: Combustion, Sub-sector: Power
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 3.785 | Absolute Value | 20 03 04 | septic tank sludge | No |
| R1 | Use principally as a fuel or other means to generate energy | 0.36 | Absolute Value | 15 02 02 | absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances | Yes |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R5 | Recycling/reclamation of other inorganic materials | 0.37 | Absolute Value | 15 01 10 | packaging containing residues of or contaminated by dangerous substances | Yes |
| R9 | Oil e-refining or other reuses of oil | 0.886 | Absolute Value | 13 05 06 | oil from oil/water separators | Yes |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 3.9825 | Absolute Value | 13 02 05 | mineral-based non-chlorinated engine, gear and lubricating oils | Yes |

ID: AP, Location: 451m NW, Permit: DP3134LK
Operator: Coal Products Limited
Activity: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES
Address: Immingham Briquetting Works Western Access Road Immingham Dock South Humberside DN40 2QR
Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | - | Below Reporting Threshold | 20 01 01 | paper and cardboard | No |
| R4 | Recycling/reclamation of metals and metal compounds | 15.42 | Absolute Value | 20 01 40 | metals | No |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 6.04 | Absolute Value | 20 01 38 | wood other than that mentioned in 20 01 37 | No |
| D1 | Deposit into or onto land (eg landfill, etc.) | 27.3 | Absolute Value | 20 03 01 | mixed municipal waste | No |
| R4 | Recycling/reclamation of metals and metal compounds | 52.02 | Absolute Value | 13 07 01 | fuel oil and diesel | Yes |

ID: AQ, Location: 478m W, Permit: CP3294LE
Operator: S.A.R. Recycling Ltd
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Units 1 and 2 Pelham Industrial Estate Manby Road Lincolnshire DN40 2LF
Sector: Waste Treatment, Sub-sector: Metals recycling
Releases:

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| R8 | Recovery of components from catalysts | 3.72 | Absolute Value | 16 01 22 | components not otherwise specified | No |
| R3 | Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes) | 417.5 | Absolute Value | 19 12 04 | plastic and rubber | No |
| R13 | Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | 112.969 | Absolute Value | 20 03 01 | mixed municipal waste | No |
| R4 | Recycling/reclamation of metals and metal compounds | 732.416 | Absolute Value | 19 12 03 | non-ferrous metal | No |
| R4 | Recycling/reclamation of metals and metal compounds | 46.62 | Absolute Value | 17 04 03 | lead | No |
| R8 | Recovery of components from catalysts | 342.244 | Absolute Value | 16 08 07 | spent catalysts contaminated with dangerous substances | Yes |
| D15 | Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced) | 1 | Absolute Value | 16 11 01 | carbon-based linings and refractories from metallurgical processes containing dangerous substances | Yes |
| R4 | Recycling/reclamation of metals and metal compounds | 13136.354 | Absolute Value | 19 12 11 | other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances | Yes |
| R4 | Recycling/reclamation of metals and metal compounds | 4890.694 | Absolute Value | 16 06 01 | lead batteries | Yes |

| Route | Route description | Quantity (tonnes) | Release level | EWC code | EWC description | Hazardous waste |
|---|---|---|---|---|---|---|
| D9 | Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numberes D1 to D12 (eg evaporation, drying, calcination, etc.) | 2515.61 | Absolute Value | 16 06 06 | separately collected electrolyte from batteries and accumulators | Yes |
| R4 | Recycling/reclamation of metals and metal compounds | 335.184 | Absolute Value | 16 01 07 | oil filters | Yes |

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

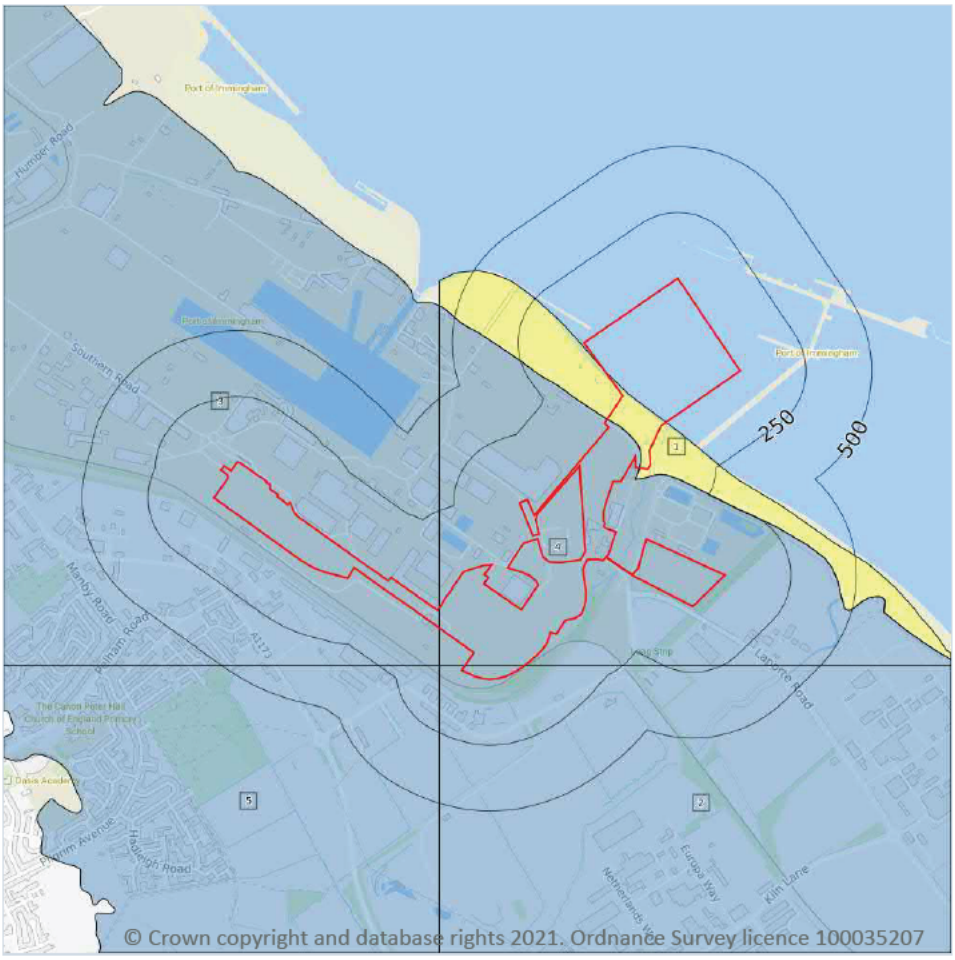
## 4.21 Pollution inventory radioactive waste

| 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 | 5 |
|---|---|

Aquifer status of groundwater held within superficial geology.

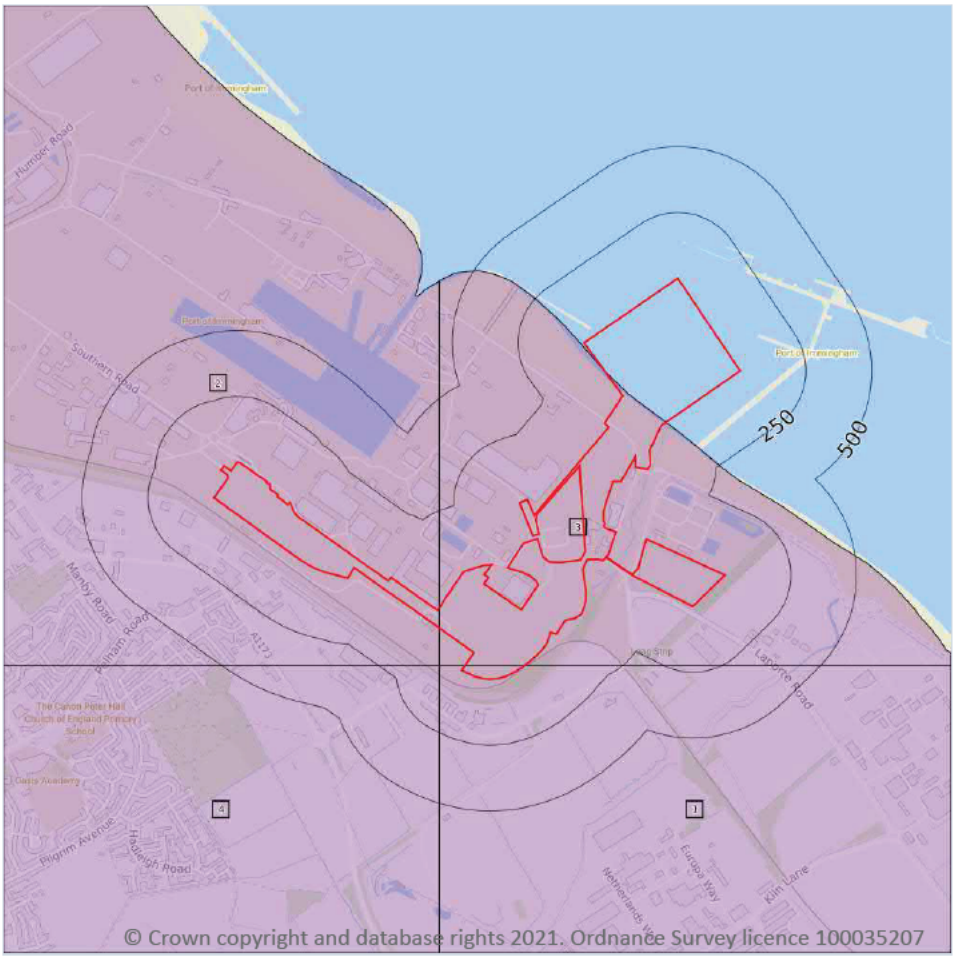
Features are displayed on the Hydrogeology map on **page 137**

| 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 | On site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |

| ID | Location | Designation | Description |
|---|---|---|---|
| **3** | **On site** | **Unproductive** | **These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow** |
| **4** | **On site** | **Unproductive** | **These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow** |
| 5 | 85m W | 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




## 5.2 Bedrock aquifer

| Records within 500m | 4 |
|---|---|

Aquifer status of groundwater held within bedrock geology.

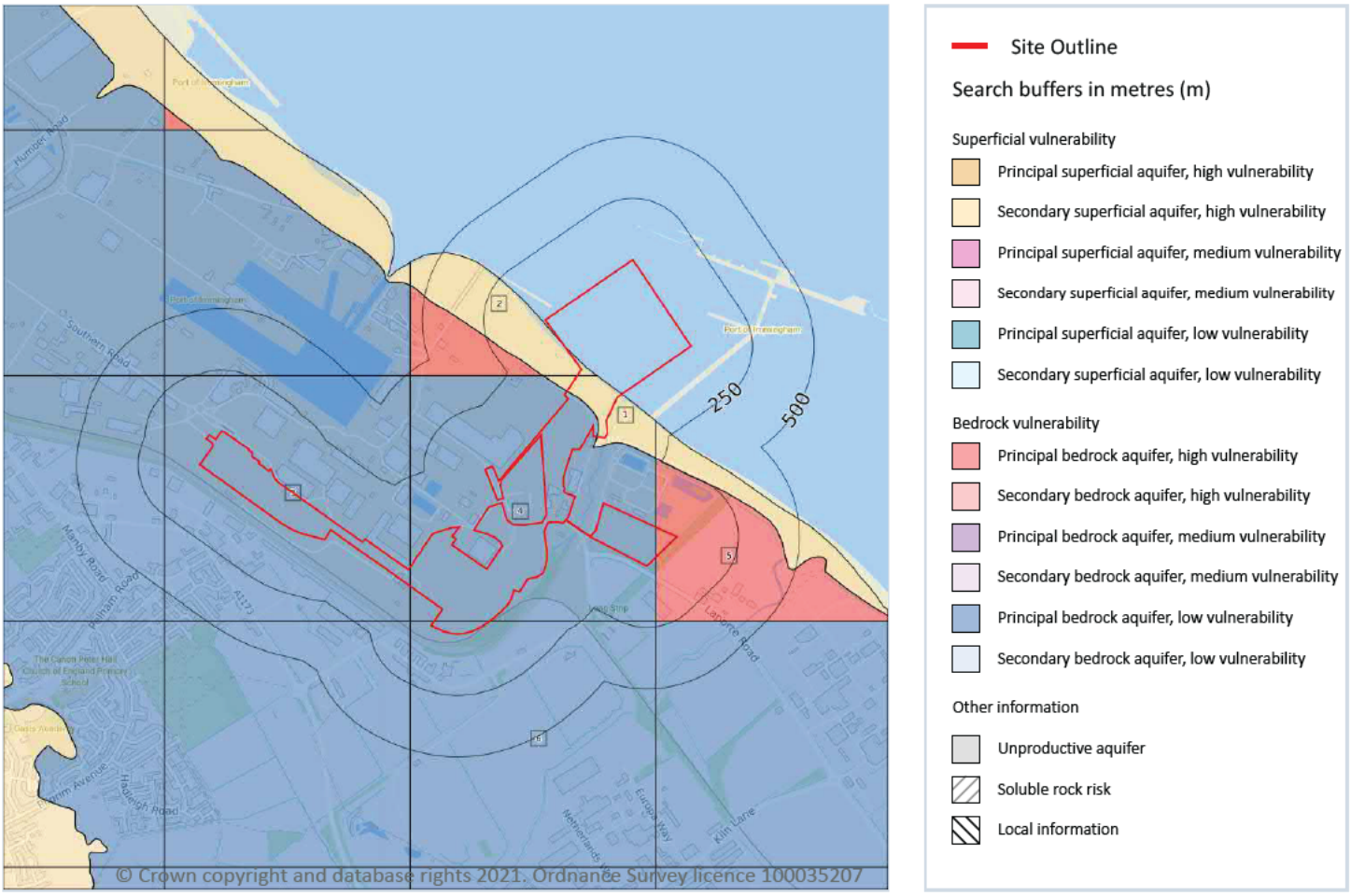
Features are displayed on the Bedrock aquifer map on **page 139**

| 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 |
| 2 | 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 |

| ID | Location | Designation | Description |
|---|---|---|---|
| **3** | **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** |
| 4 | 85m W | 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




## 5.3 Groundwater vulnerability

| Records within 50m | 6 |
|---|---|

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 141**

| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|---|---|---|---|---|---|
| 1 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: High<br>Aquifer type: Secondary<br>Thickness: >10m<br>Patchiness value: >90%<br>Recharge potential: Low | Vulnerability: Low<br>Aquifer type: Principal<br>Flow mechanism: Well connected fractures |
| 2 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High<br>Infiltration value: No Data%<br>Dilution value: No Datamm/year | Vulnerability: High<br>Aquifer type: Secondary<br>Thickness: >10m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: High<br>Aquifer type: Principal<br>Flow mechanism: Well connected fractures |
| 3 | On site | Summary Classification: Principal bedrock aquifer - Low Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Thickness: >10m<br>Patchiness value: >90%<br>Recharge potential: Low | Vulnerability: Low<br>Aquifer type: Principal<br>Flow mechanism: Well connected fractures |
| 4 | On site | Summary Classification: Principal bedrock aquifer - Low Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Thickness: >10m<br>Patchiness value: >90%<br>Recharge potential: Low | Vulnerability: Low<br>Aquifer type: Principal<br>Flow mechanism: Well connected fractures |
| 5 | On site | Summary Classification: Principal bedrock aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High<br>Infiltration value: No Data%<br>Dilution value: No Datamm/year | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Thickness: >10m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: High<br>Aquifer type: Principal<br>Flow mechanism: Well connected fractures |
| 6 | On site | Summary Classification: Principal bedrock aquifer - Low Vulnerability<br>Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer | Leaching class: High<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Thickness: >10m<br>Patchiness value: >90%<br>Recharge potential: Low | Vulnerability: Low<br>Aquifer type: Principal<br>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.*

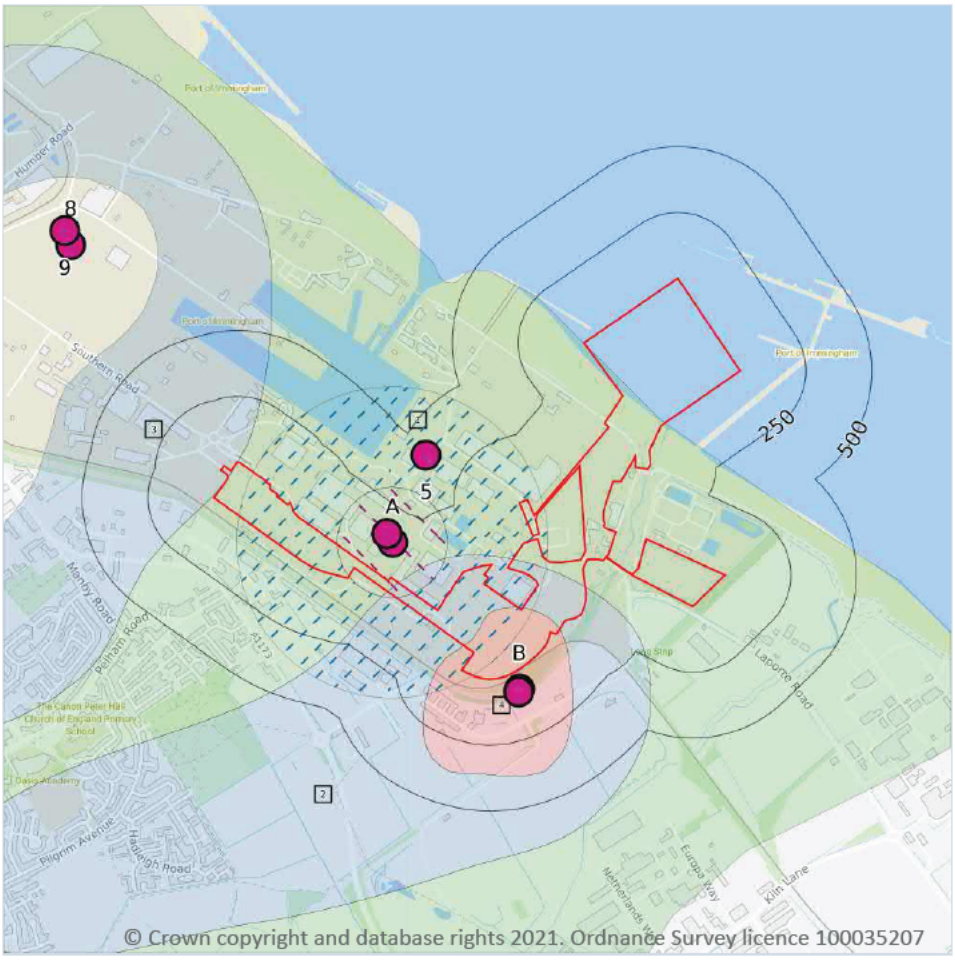
## 5.5 Groundwater vulnerability- local information

| 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 | 17 |
|---|---|

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 144**

| ID | Location | Details | |
|---|---|---|---|
| B | 63m SE | Status: Active<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: LOCO BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 520303<br>Northing: 414913 | Annual Volume ($m^3$): 1,400,000<br>Max Daily Volume ($m^3$): 5,480<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 05/10/2017<br>Version End Date: - |
| B | 74m SE | Status: Historical<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: LOCO BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 520300<br>Northing: 414900 | Annual Volume ($m^3$): 945588<br>Max Daily Volume ($m^3$): 2619<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |
| A | 129m NE | Status: Active<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BOREHOLE AT IMMINGHAM<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 519822<br>Northing: 415470 | Annual Volume ($m^3$): 1,400,000<br>Max Daily Volume ($m^3$): 5,480<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 05/10/2017<br>Version End Date: - |
| A | 141m NE | Status: Historical<br>Licence No: 4/29/09/*G/0099<br>Details: Process water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: NORSK HYDRO BORE IMMINGHAM<br>Data Type: Point<br>Name: HYDRO FERTILIZERS LTD<br>Easting: 519800<br>Northing: 415500 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/10/1990<br>Version End Date: - |
| A | 141m NE | Status: Historical<br>Licence No: 4/29/09/*G/0099<br>Details: General Washing/Process Washing<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: NORSK HYDRO BORE IMMINGHAM<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 519800<br>Northing: 415500 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 01/10/2001<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| A | 141m NE | Status: Historical<br>Licence No: 4/29/09/*G/0099<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BOREHOLE AT IMMINGHAM<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 519800<br>Northing: 415500 | Annual Volume ($m^3$): 454607<br>Max Daily Volume ($m^3$): 2727<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 03/03/2003<br>Version End Date: - |
| 5 | 397m NW | Status: Historical<br>Licence No: 4/29/09/*G/0020<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: ULCEBY CARR FARM BORE1 ULCEBY<br>Data Type: Point<br>Name: WILKINS<br>Easting: 519950<br>Northing: 415800 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 01/11/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/05/1989<br>Version End Date: - |
| - | 979m W | Status: Historical<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: RECEPTION BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 518200<br>Northing: 415900 | Annual Volume ($m^3$): 945588<br>Max Daily Volume ($m^3$): 2619<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |
| - | 1001m W | Status: Active<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: RECEPTION BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 518197<br>Northing: 415977 | Annual Volume ($m^3$): 1,400,000<br>Max Daily Volume ($m^3$): 5,480<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 05/10/2017<br>Version End Date: - |
| 8 | 1022m NW | Status: Historical<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: TIMBER YARD BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 518600<br>Northing: 416600 | Annual Volume ($m^3$): 945588<br>Max Daily Volume ($m^3$): 2619<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| 9 | 1077m NW | Status: Active<br>Licence No: 4/29/09/*G/0045<br>Details: Raw Water Supply<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: TIMBER YARD BORE<br>Data Type: Point<br>Name: ASSOCIATED BRITISH PORTS<br>Easting: 518578<br>Northing: 416651 | Annual Volume ($m^3$): 1,400,000<br>Max Daily Volume ($m^3$): 5,480<br>Original Application No: -<br>Original Start Date: 01/06/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 05/10/2017<br>Version End Date: - |
| - | 1630m S | Status: Active<br>Licence No: 4/29/09/*G/0005<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BORE B STALLINGBOROUGH<br>Data Type: Point<br>Name: Tronox Pigment UK Limited<br>Easting: 520006<br>Northing: 413328 | Annual Volume ($m^3$): 3,155,760<br>Max Daily Volume ($m^3$): 8,640<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 103<br>Version Start Date: 19/08/2019<br>Version End Date: - |
| - | 1652m S | Status: Active<br>Licence No: 4/29/09/*G/0005<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BOREHOLE C STALLINGBOROUGH<br>Data Type: Point<br>Name: Tronox Pigment UK Limited<br>Easting: 520055<br>Northing: 413302 | Annual Volume ($m^3$): 3,155,760<br>Max Daily Volume ($m^3$): 8,640<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 103<br>Version Start Date: 19/08/2019<br>Version End Date: - |
| - | 1654m S | Status: Historical<br>Licence No: 4/29/09/*G/0005<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BORE B STALLINGBOROUGH<br>Data Type: Point<br>Name: Cristal Pigment UK Limited<br>Easting: 520050<br>Northing: 413300 | Annual Volume ($m^3$): 829662<br>Max Daily Volume ($m^3$): 2273<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 23/10/2012<br>Version End Date: - |
| - | 1662m S | Status: Historical<br>Licence No: 4/29/09/*G/0005<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BORE A STALLINGBOROUGH<br>Data Type: Point<br>Name: Cristal Pigment UK Limited<br>Easting: 519970<br>Northing: 413300 | Annual Volume ($m^3$): 829662<br>Max Daily Volume ($m^3$): 2273<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 23/10/2012<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| - | 1668m S | Status: Active<br>Licence No: 4/29/09/*G/0005<br>Details: Process Water<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BORE A STALLINGBOROUGH<br>Data Type: Point<br>Name: Tronox Pigment UK Limited<br>Easting: 519961<br>Northing: 413295 | Annual Volume ($m^3$): 3,155,760<br>Max Daily Volume ($m^3$): 8,640<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 103<br>Version Start Date: 19/08/2019<br>Version End Date: - |
| - | 1946m SW | Status: Historical<br>Licence No: 4/29/09/*G/0026<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: MAUXHALL FM. BORE ST'NGBOROUGH<br>Data Type: Point<br>Name: SHEPHERD<br>Easting: 519200<br>Northing: 413250 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 01/07/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/07/1966<br>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 144**

| ID | Location | Details | |
|---|---|---|---|
| - | 1240m W | Status: Historical<br>Licence No: 4/29/09/*S/0127<br>Details: Make-Up Or Top Up Water<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: TRIB. OF HABROUGH MARSH DRAIN<br>Data Type: Point<br>Name: IMMINGHAM TOWN COUNCIL<br>Easting: 517910<br>Northing: 415510 | Annual Volume ($m^3$): 4092<br>Max Daily Volume ($m^3$): 46<br>Original Application No: -<br>Original Start Date: 01/01/1985<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>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 | 4 |
|---|---|

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 144**

| ID | Location | Type | Description |
|---|---|---|---|
| 1 | On site | 3 | Total catchment |
| 2 | On site | 2 | Outer catchment |
| 3 | On site | 2 | Outer catchment |
| 4 | On site | 1 | Inner catchment |

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

## 5.10 Source Protection Zones (confined aquifer)

| Records within 500m | 2 |
|---|---|

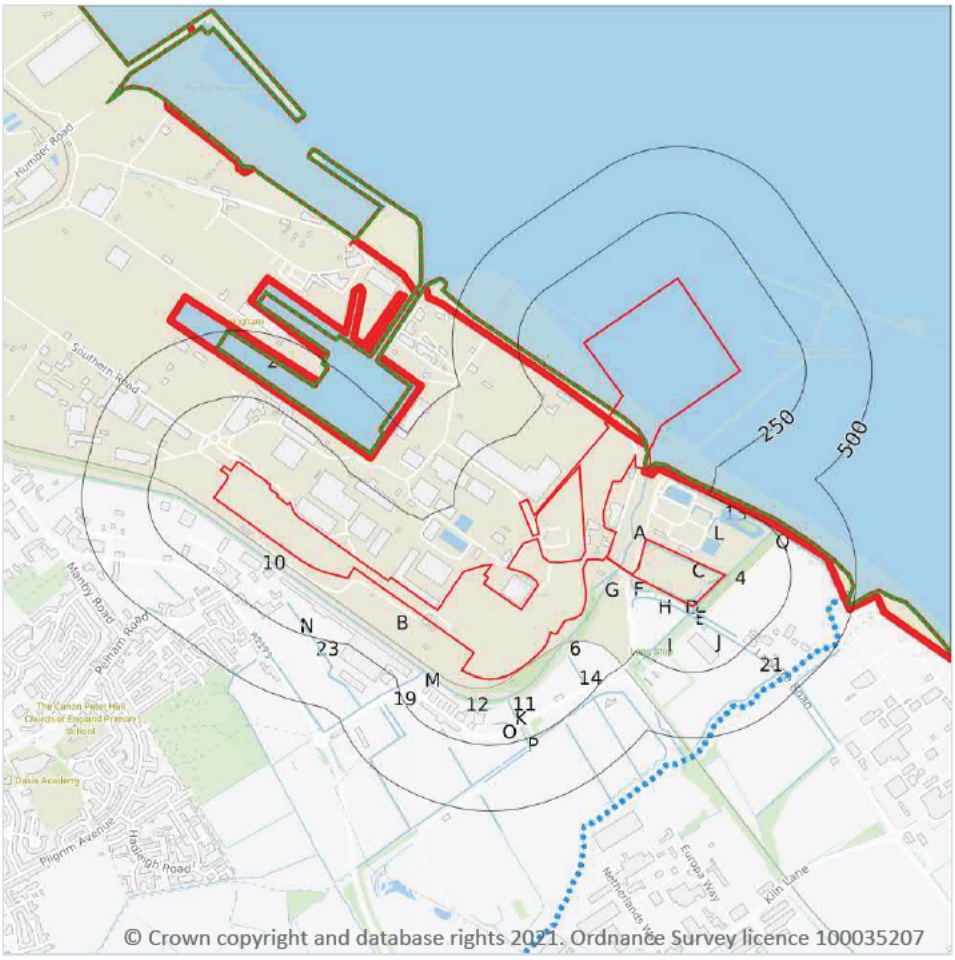
Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

Features are displayed on the Abstractions and Source Protection Zones map on **page 144**

| ID | Location | Type | Description |
|---|---|---|---|
| A | On site | 2c | Outer catchment within confined aquifer |
| A | On site | 1c | Inner catchment within confined aquifer |

*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 | 40 |
|---|---|

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 150**

| 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** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **D** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| 4 | 7m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | 13m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| F | 14m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | 15m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | 15m S | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| F | 19m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| F | 23m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 6 | 25m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| G | 27m E | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| H | 30m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | 33m SW | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|---|---|---|---|---|---|
| E | 33m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| I | 36m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| E | 37m S | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| J | 39m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| J | 57m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 10 | 70m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 11 | 76m S | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| 12 | 77m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 13 | 91m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| K | 92m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 14 | 95m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 122m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| M | 145m 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 | 153m W | Inland river not influenced by normal tidal action. | Not provided | Watercourse contains water year round (in normal circumstances) | - |
| 19 | 154m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 158m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| N | 163m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 168m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| O | 168m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 179m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| L | 182m NE | Lake, loch or reservoir. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 192m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| P | 201m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 21 | 211m SE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 23 | 237m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 248m 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 | 31 |
|---|---|

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 150**

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

| Records on site | 2 |
|---|---|

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 150**

| ID | Location | Type | Water body catchment | Water body ID | Operational catchment | Management catchment |
|---|---|---|---|---|---|---|
| 2 | On site | Coastal Catchment | Not part of a river WB catchment | 92 | Northern Becks | Louth Grimsby and Ancholme |
| B | On site | River WB catchment | North Beck Drain | GB104029067575 | Northern Becks | Louth Grimsby and Ancholme |

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

## 6.4 WFD Surface water bodies

| Records identified | 2 |
|---|---|

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 150**

| ID | Location | Type | Name | Water body ID | Overall rating | Chemical rating | Ecological rating | Year |
|---|---|---|---|---|---|---|---|---|
| **1** | **On site** | **Transitional** | **Humber Lower** | **GB530402609201** | **Moderate** | **Fail** | **Moderate** | **2016** |
| 37 | 409m S | River | North Beck Drain | GB104029067575 | Moderate | Good | Moderate | 2016 |

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

## 6.5 WFD Groundwater bodies

| Records on site | 1 |
|---|---|

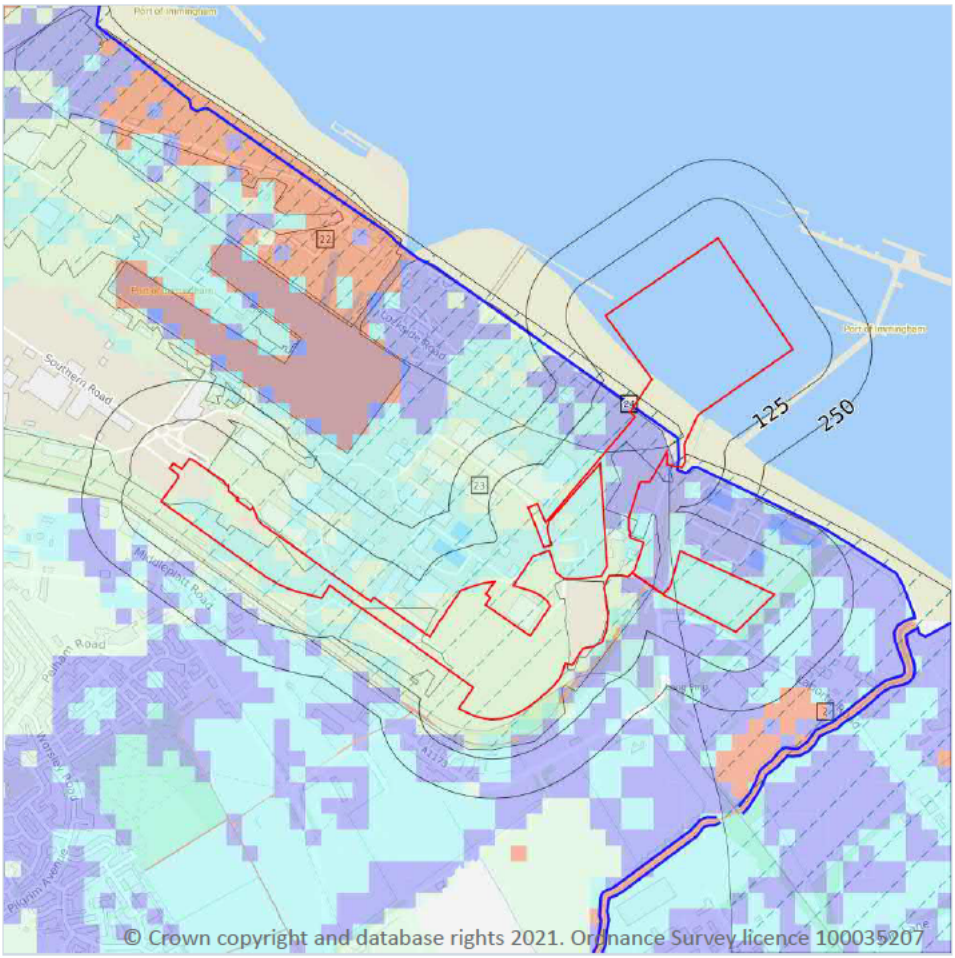
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 150**

| ID | Location | Name | Water body ID | Overall rating | Chemical rating | Quantitative | Year |
|---|---|---|---|---|---|---|---|
| **B** | **On site** | **Grimsby Ancholme Louth Chalk Unit** | **GB40401G401500** | **Poor** | **Poor** | **Poor** | **2015** |

*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 | 45 |
|---|---|

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 156**

| Distance | Flood risk category |
|---|---|
| **On site** | **High** |
| 0 - 50m | High |

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

## 7.2 Historical Flood Events

| **Records within 250m** | **3** |
|---|---|

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 156**

| ID | Location | Event name | Date of flood | Flood source | Flood cause | Type of flood |
|---|---|---|---|---|---|---|
| **2** | **On site** | **1953-January_Lincolnshire Coastline** | **1953-01-31 1953-02-01** | **Other** | **Overtopping of defences** | **Tidal** |
| **22** | **On site** | **1953-January_Lincolnshire Coastline** | **1953-01-31 1953-02-01** | **Other** | **Overtopping of defences** | **Tidal** |
| **23** | **On site** | **2013-December_Tidal Surge** | **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** | **1** |
|---|---|

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.

Features are displayed on the River and coastal flooding map on **page 156**

| ID | Location | Update |
|---|---|---|
| **24** | **On site** | **01/09/2021** |

*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.*

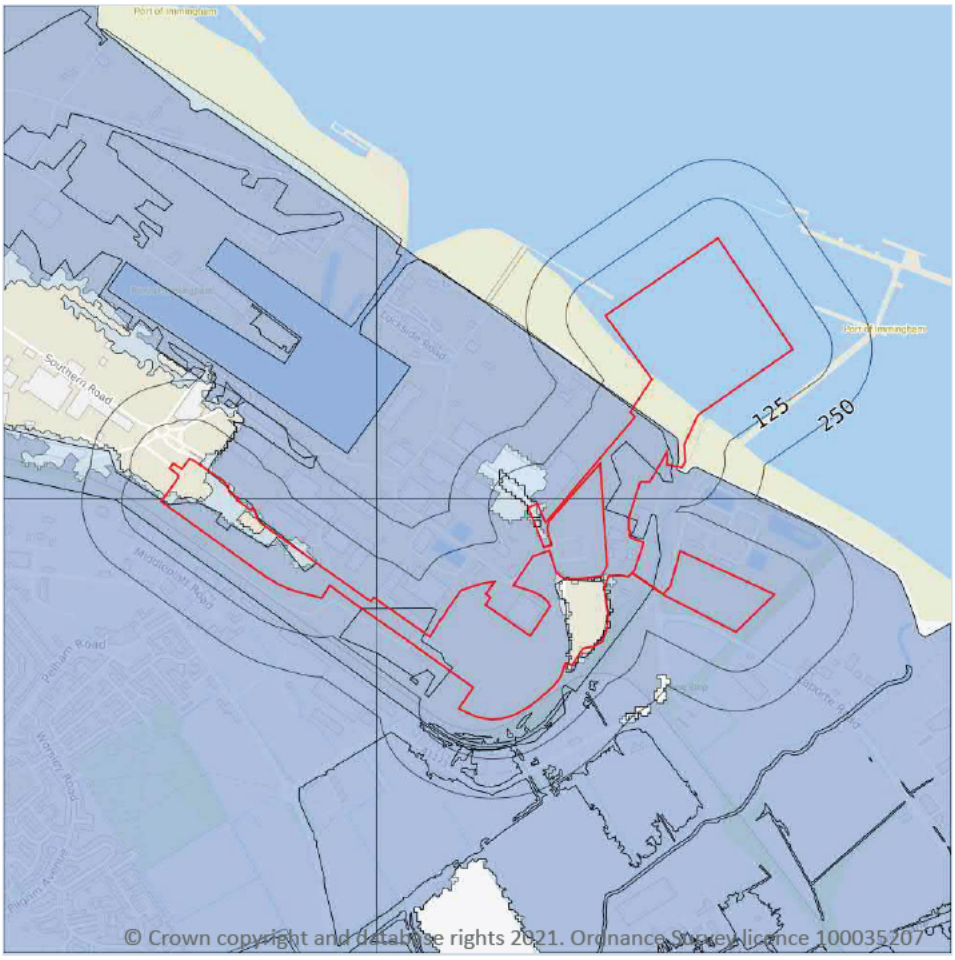
## 7.5 Flood Storage Areas

| 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 156**

| 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 |
|---|---|

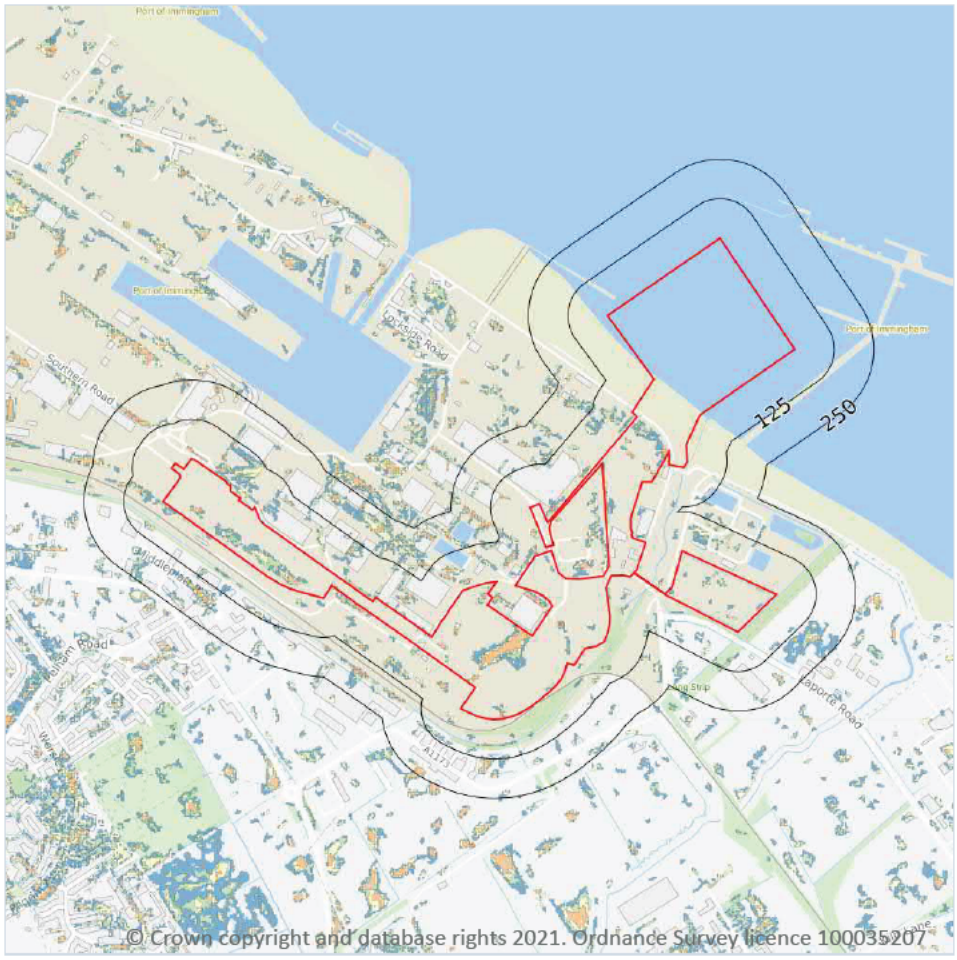
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 156**

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

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

# 8 Surface water flooding




Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

## 8.1 Surface water flooding

| | |
|---|---|
| **Highest risk on site** | **1 in 30 year, Greater than 1.0m** |
| **Highest risk within 50m** | **1 in 30 year, Greater than 1.0m** |

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.

Features are displayed on the Surface water flooding map on **page 161**

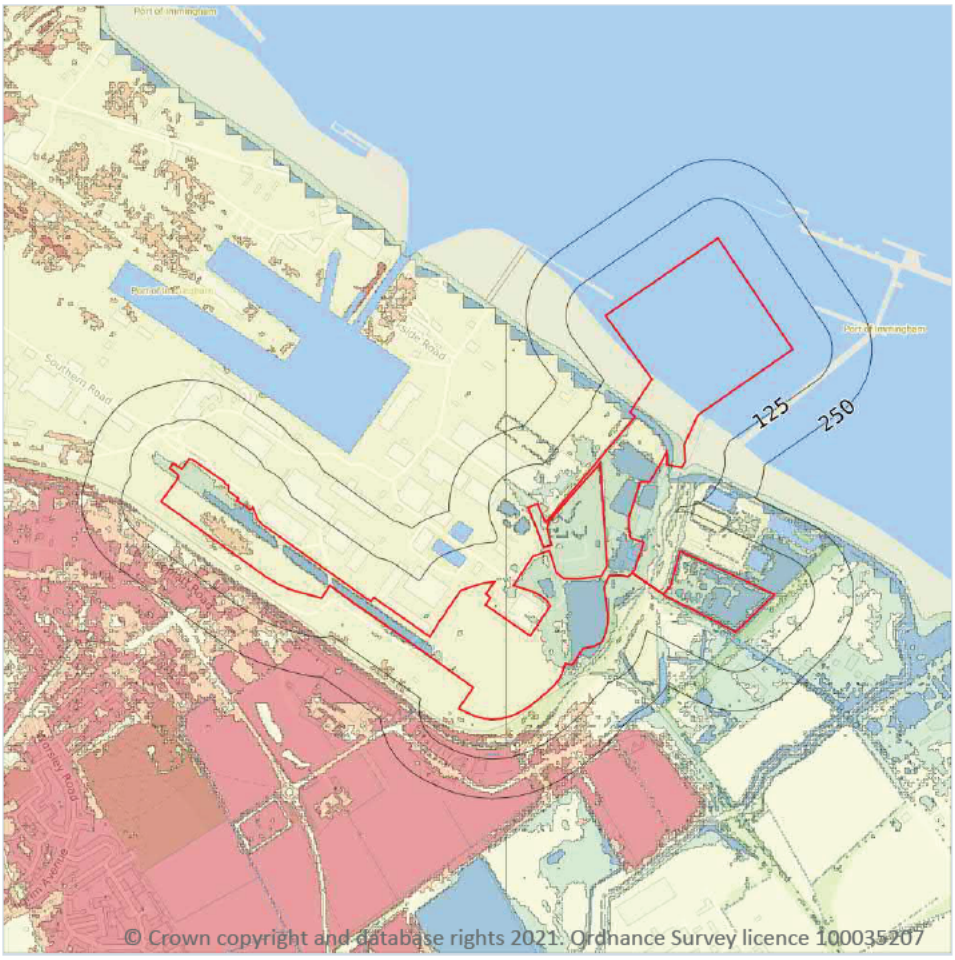
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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 | Greater than 1.0m |
| 1 in 250 year | Greater than 1.0m |
| 1 in 100 year | Greater than 1.0m |
| 1 in 30 year | Greater than 1.0m |

*This data is sourced from Ambiental Risk Analytics.*

# 9 Groundwater flooding




Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

## 9.1 Groundwater flooding

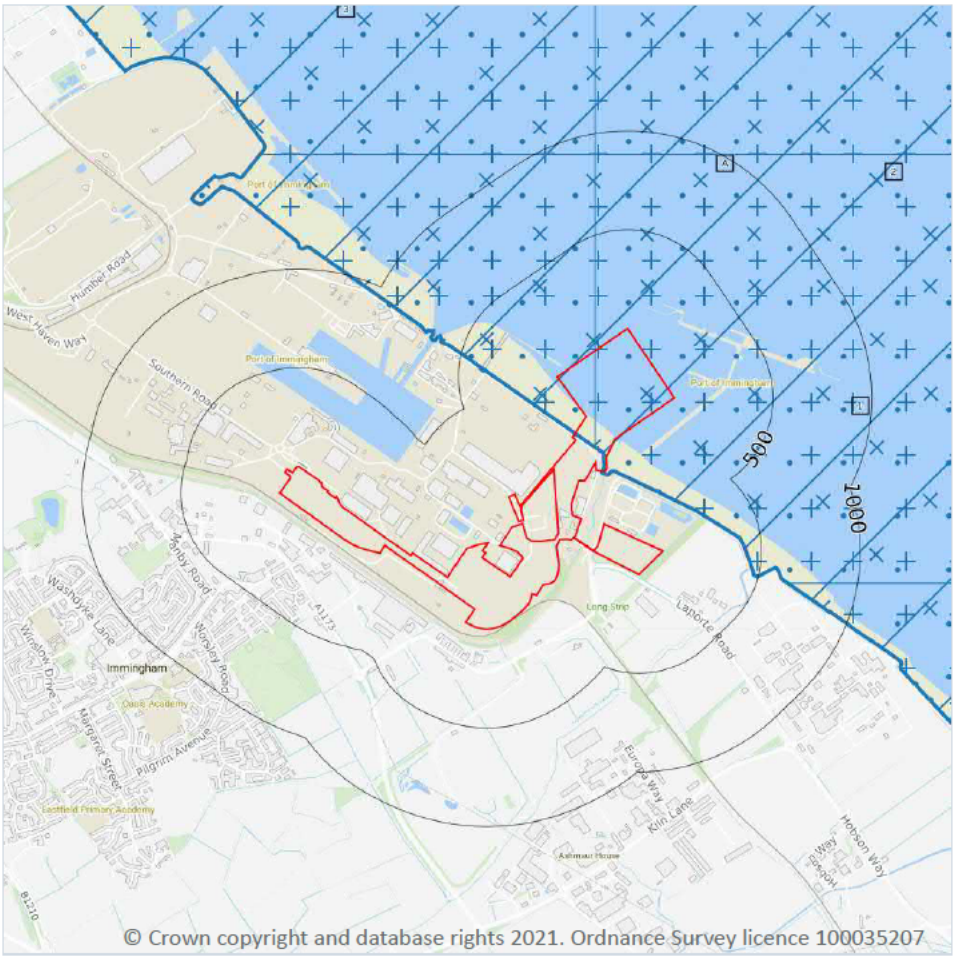
| | |
|---|---|
| **Highest risk on site** | **Moderate-High** |
| **Highest risk within 50m** | **High** |

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 163**

*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 164**

| ID | Location | Name | Data source |
|---|---|---|---|
| A | On site | 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 164**

| ID | Location | Site | Details |
|---|---|---|---|
| 1 | On site | Name: Humber Estuary<br>Site status: Listed<br>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.<br>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 |

| ID | Location | Site | Details |
|---|---|---|---|
| 5 | 881m N | Name: Humber Estuary<br>Site status: Listed<br>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.<br>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 |

*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 164**

| ID | Location | Name | Features of interest | Habitat description | Data source |
|---|---|---|---|---|---|
| A | On site | 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 | 3 |
|---|---|

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 164**

| ID | Location | Name | Species of interest | Habitat description | Data source |
|---|---|---|---|---|---|
| 2 | On site | 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; | 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 v | Natural England |

| ID | Location | Name | Species of interest | Habitat description | Data source |
|---|---|---|---|---|---|
| **3** | **On site** | **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;** | **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 v** | **Natural England** |
| 4 | 651m E | 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; | 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 v | 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 |
|---|---|

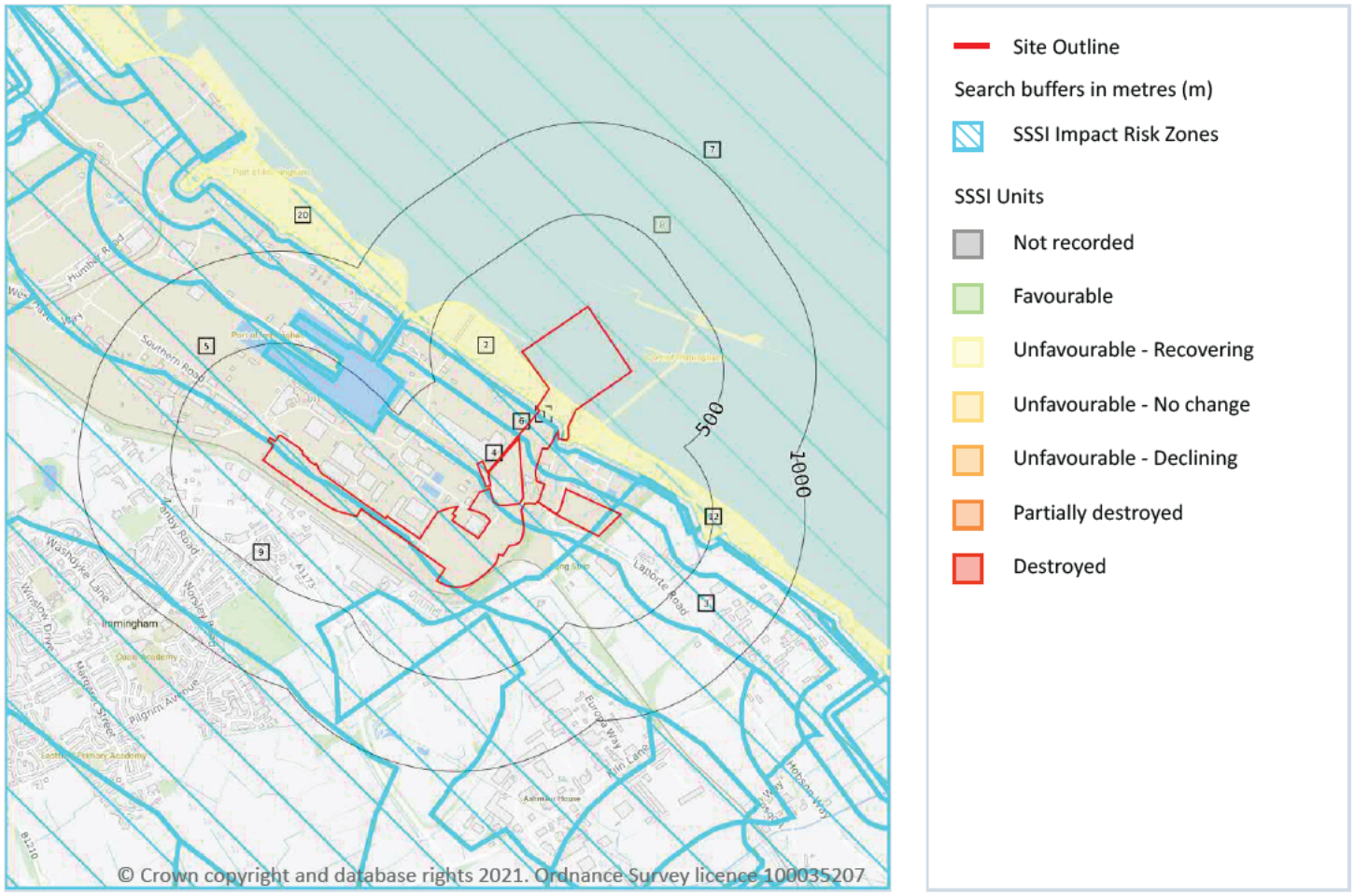
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

| Location | Name | Type | NVZ ID | Status |
|---|---|---|---|---|
| **On site** | **North Beck Drain NVZ** | **Surface Water** | **S359** | **Existing** |

| Location | Name | Type | NVZ ID | Status |
|---|---|---|---|---|
| 188m NW | North Beck Drain NVZ | Surface Water | S359 | Existing |
| 1120m S | Lincolnshire Chalk | Groundwater | G80 | Changed |
| 1760m NW | Lincolnshire Chalk | Groundwater | G80 | Changed |

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

# SSSI Impact Zones and Units




## 10.17 SSSI Impact Risk Zones

| Records on site | 7 |
|---|---|

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 174**

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 1 | On site | **All applications - All Planning Applications - Except Householder Applications.** |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 3 | 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<br>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals<br>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines<br>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.<br>Rural non-residential - Any non-residential development outside of existing urban areas where net additional gross internal floorspace following development is 30m² or more.<br>Residential - Residential development of 10 units or more.<br>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units<br>Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores).<br>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management<br>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream (NB this does not include discharges to mains sewer which are unlikely to pose a risk at this location).<br>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<br>Notes: A strategic approach has been developed for the loss of habitat used by SPA birds within the South Humber Bank mitigation zone (see local plan policy 9). You should liaise with the Council regarding how you should contribute to this strategic approach.** |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 4 | 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**<br>**Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals**<br>**Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines**<br>**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.**<br>**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**<br>**Residential - Residential development of 50 units or more.**<br>**Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units**<br>**Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores).**<br>**Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**<br>**Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management**<br>**Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.**<br>**Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream (NB this does not include discharges to mains sewer which are unlikely to pose a risk at this location).**<br>**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** |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 5 | 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<br>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals<br>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines<br>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.<br>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<br>Residential - Residential development of 50 units or more.<br>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units<br>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t).<br>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<br>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.<br>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.<br>Discharges - Any discharge of water or liquid waste of more than 2m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location).<br>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** |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 6 | 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<br>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals<br>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines<br>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.<br>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<br>Residential - Residential development of 10 units or more.<br>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units<br>Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores).<br>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management<br>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream (NB this does not include discharges to mains sewer which are unlikely to pose a risk at this location).<br>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 |
| 8 | On site | All applications - All Planning Applications. |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 9 | On site | **Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals<br>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines<br>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.<br>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<br>Residential - Residential development of 50 units or more.<br>Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.<br>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t).<br>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<br>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.<br>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<br>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 (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location).<br>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.** |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

| Records within 2000m | 5 |
|---|---|

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 174**

| | |
|---|---|
| ID: | 2 |
| Location: | On site |
| 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 - Black-tailed godwit, Limosa limosa islandica | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Curlew, Numenius arquata | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Knot, Calidris canutus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Lapwing, Vanellus vanellus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Teal, Anas crecca | Unfavourable - Recovering | 21/12/2010 |
| Littoral sediment | Unfavourable - Recovering | 30/03/2010 |

ID: 7
Location: On site
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 | Favourable | 21/12/2010 |
| Estuaries | Unfavourable - Recovering | 21/12/2010 |
| River lamprey, Lampetra fluviatilis | Unfavourable - Recovering | 21/12/2010 |
| Sea lamprey, Petromyzon marinus | Unfavourable - Recovering | 21/12/2010 |

ID: 12
Location: 85m SE
SSSI name: Humber Estuary
Unit name: Factory To Pipeline Jetty
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

| Feature name | Feature condition | Date of assessment |
|---|---|---|
| Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Curlew, Numenius arquata | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Knot, Calidris canutus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Lapwing, Vanellus vanellus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Teal, Anas crecca | Unfavourable - Recovering | 21/12/2010 |
| Littoral sediment | Unfavourable - Recovering | 30/03/2010 |

ID: 20
Location: 686m W
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 - Black-tailed godwit, Limosa limosa islandica | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Curlew, Numenius arquata | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Knot, Calidris canutus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Lapwing, Vanellus vanellus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Teal, Anas crecca | Unfavourable - Recovering | 21/12/2010 |
| Littoral sediment | Unfavourable - Recovering | 30/03/2010 |

ID: 26
Location: 1370m SE
SSSI name: Humber Estuary
Unit name: Middle Drain North
Broad habitat: Littoral Sediment
Condition: Unfavourable - Recovering
Reportable features:

| Feature name | Feature condition | Date of assessment |
|---|---|---|
| Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Curlew, Numenius arquata | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Knot, Calidris canutus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Lapwing, Vanellus vanellus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Oystercatcher, Haematopus ostralegus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Redshank, Tringa totanus | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Shelduck, Tadorna tadorna | Unfavourable - Recovering | 21/12/2010 |
| Aggregations of non-breeding birds - Teal, Anas crecca | Unfavourable - Recovering | 21/12/2010 |
| Littoral sediment | Unfavourable - Recovering | 30/03/2010 |

*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.*

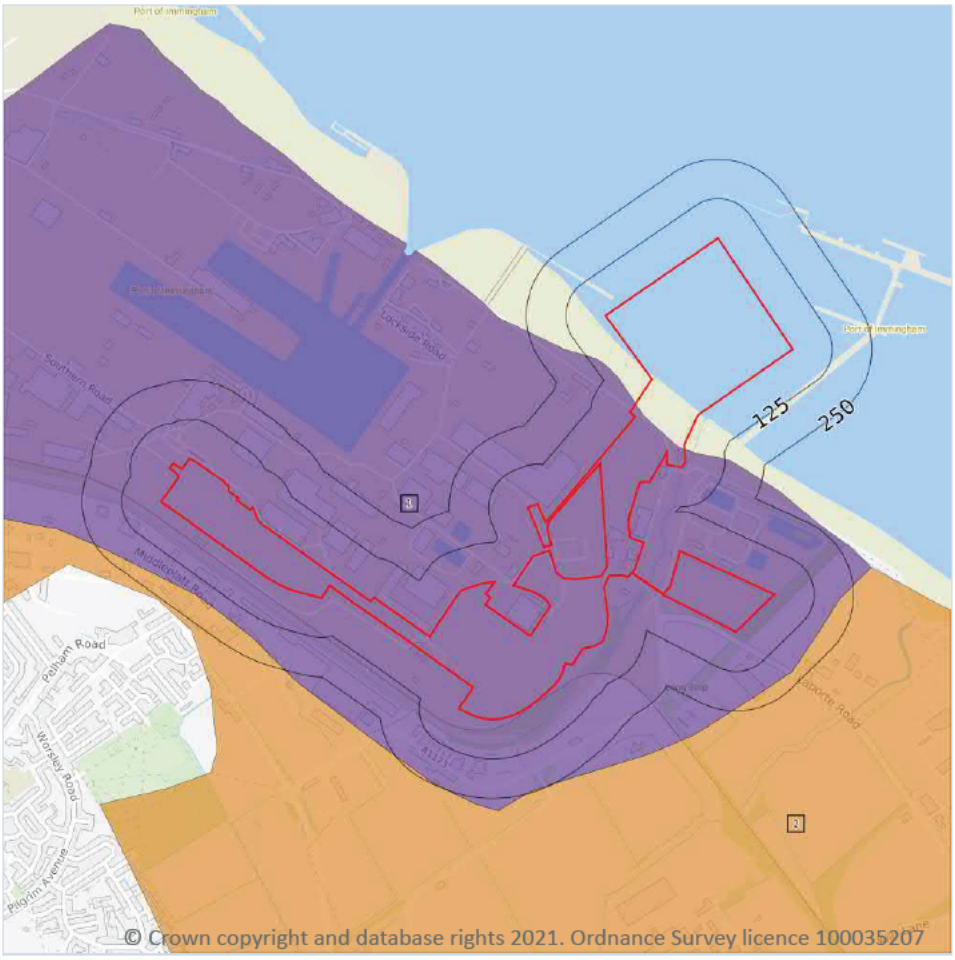
## 11.7 Registered Parks and Gardens

| 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 | 2 |
|---|---|

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 185**

| ID | Location | Classification | Description |
|---|---|---|---|
| **1** | **On site** | **Urban** | - |
| 2 | 174m SW | 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. |

*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 | 0 |
|---|---|

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.

*This data is sourced from Natural England.*

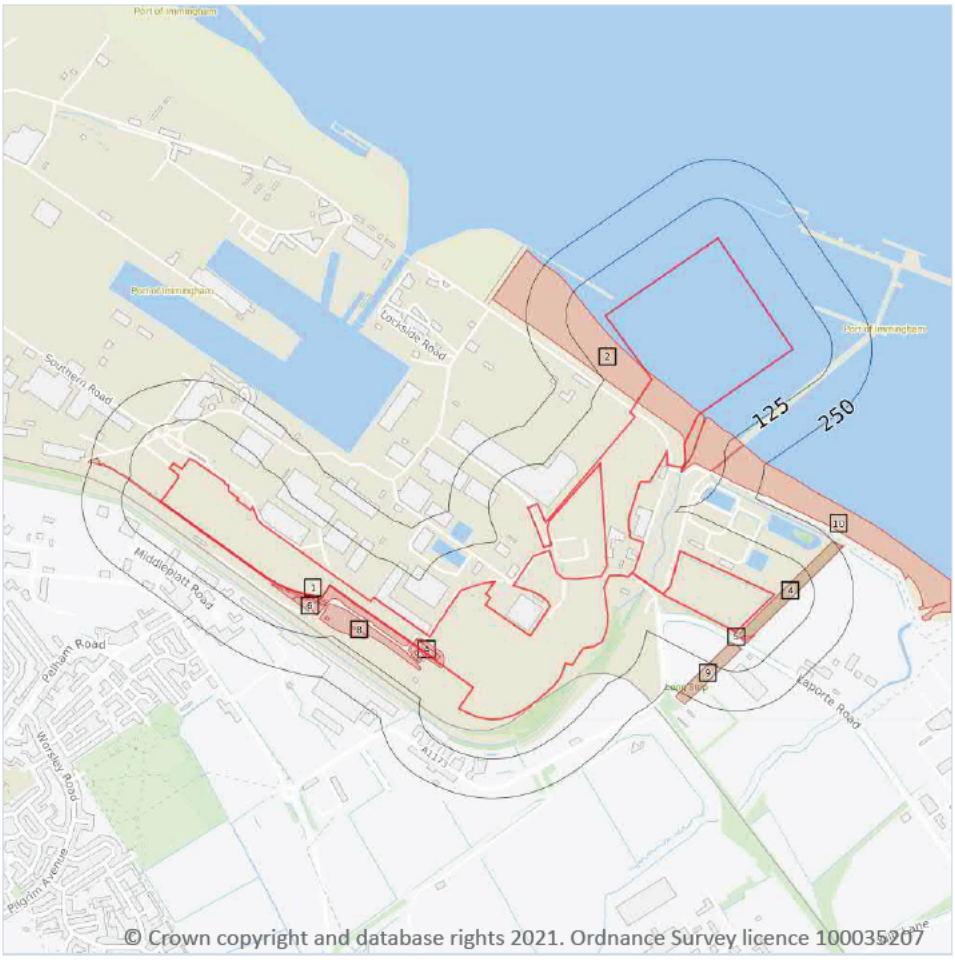
## 12.5 Countryside Stewardship Schemes

| Records within 250m | 0 |
|---|---|

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.

*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 | 12 |
|---|---|

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 187**

| ID | Location | Main Habitat | Other habitats |
|---|---|---|---|
| 1 | On site | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |
| 2 | On site | Mudflats | Main habitat: MUDFL (INV > 50%) |
| A | On site | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |
| A | On site | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |

| ID | Location | Main Habitat | Other habitats |
|---|---|---|---|
| 3 | 8m S | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |
| 4 | 9m SE | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 5 | 12m S | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 6 | 17m S | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |
| 7 | 26m SE | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 8 | 30m SE | Good quality semi-improved grassland | Main habitat: GQSIG (INV > 50%) |
| 9 | 37m SW | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 10 | 92m E | Mudflats | Main habitat: MUDFL (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 | 0 |
|---|---|

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.

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

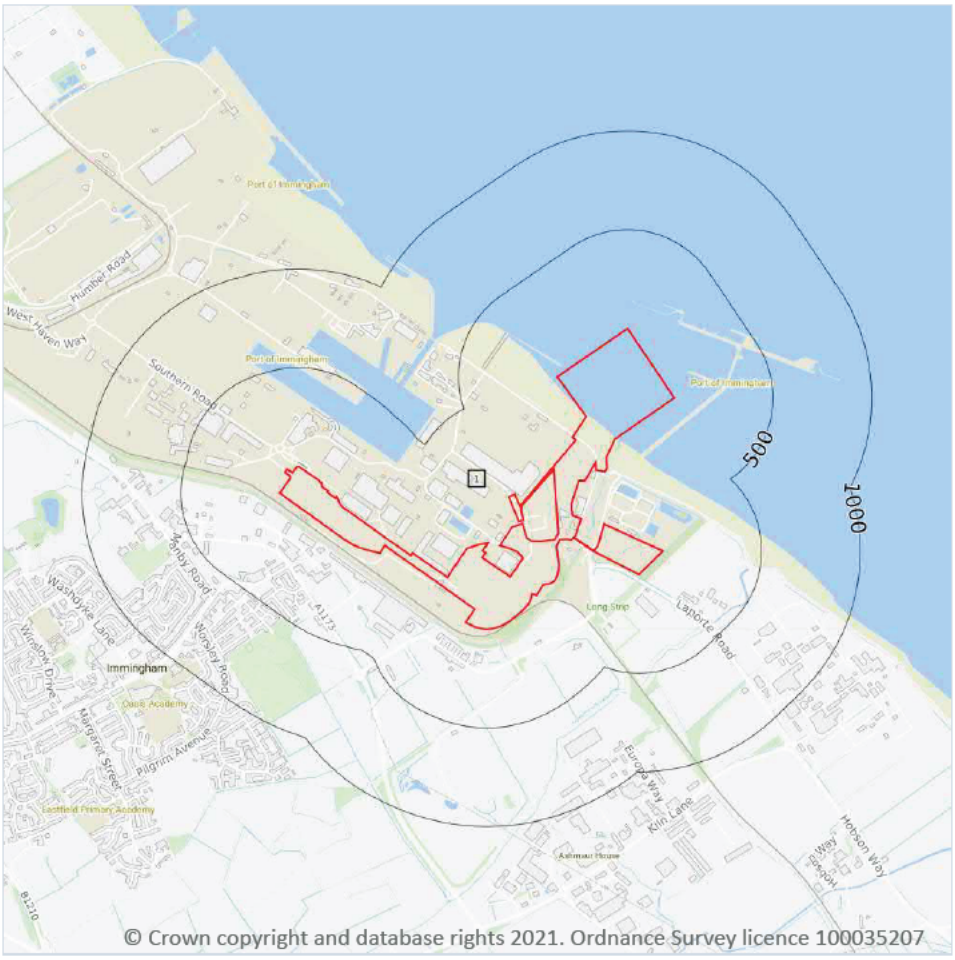
| Records within 250m | 0 |
|---|---|

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 190**

| 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.*

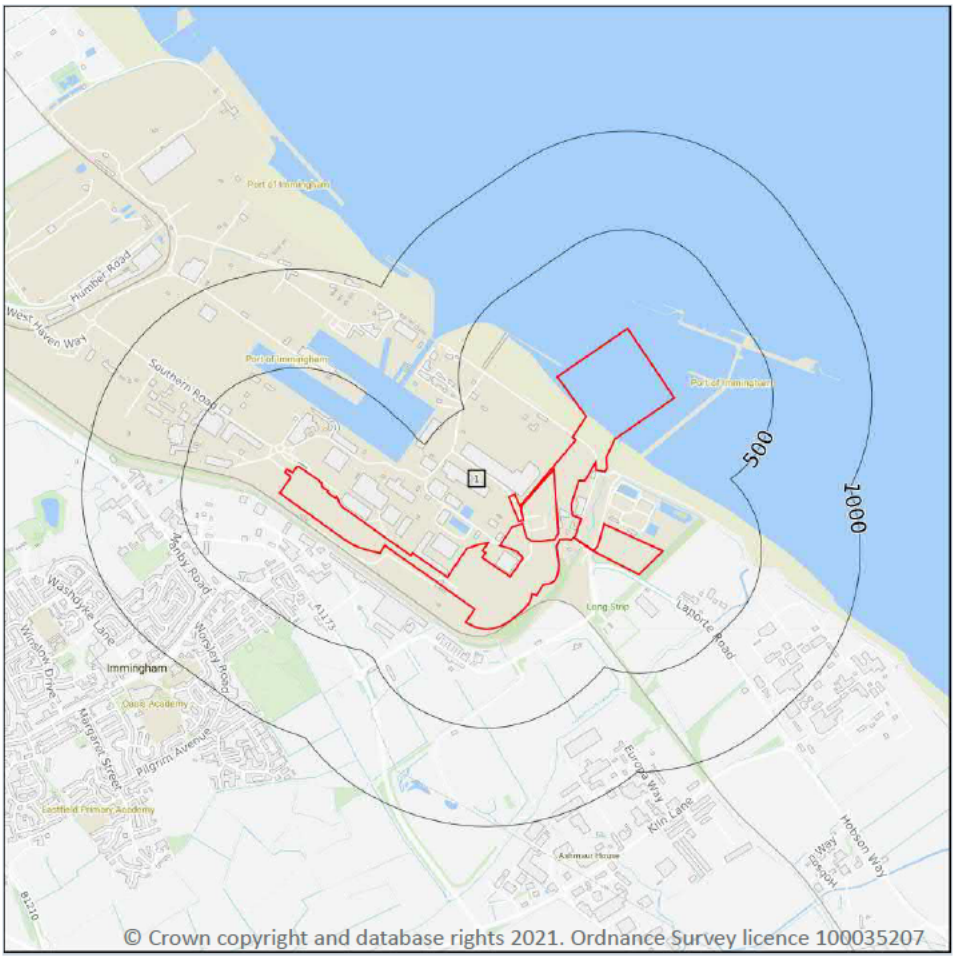
## 14.6 Bedrock faults and other linear features (10k)

| 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 |
|---|---|

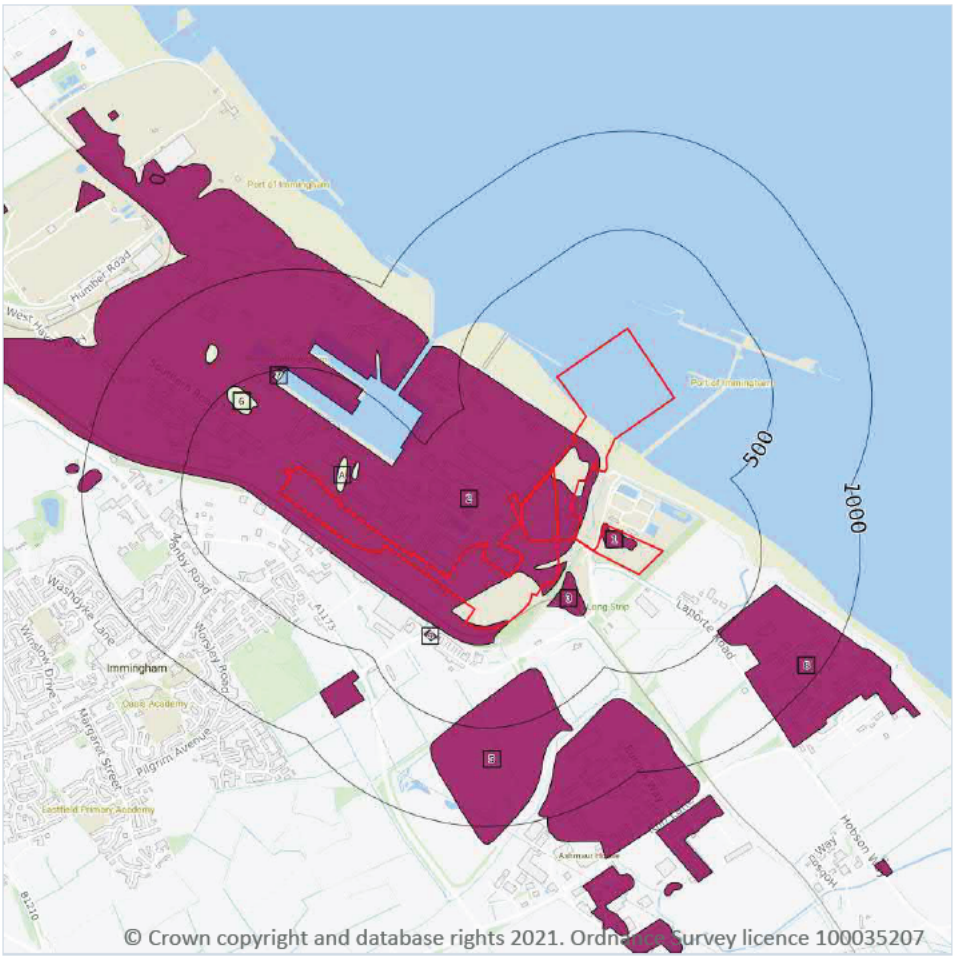
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 194**

| 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 | 10 |
|---|---|

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 195**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **MGR-ARTDP** | **MADE GROUND (UNDIVIDED)** | **ARTIFICIAL DEPOSIT** |
| **2** | **On site** | **MGR-ARTDP** | **MADE GROUND (UNDIVIDED)** | **ARTIFICIAL DEPOSIT** |
| A | 26m NE | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 3 | 40m E | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| A | 122m NE | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 4 | 162m SW | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 5 | 261m SE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 6 | 341m NW | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 7 | 442m N | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 8 | 482m SE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

*This data is sourced from the British Geological Survey.*

## 15.3 Artificial ground permeability (50k)

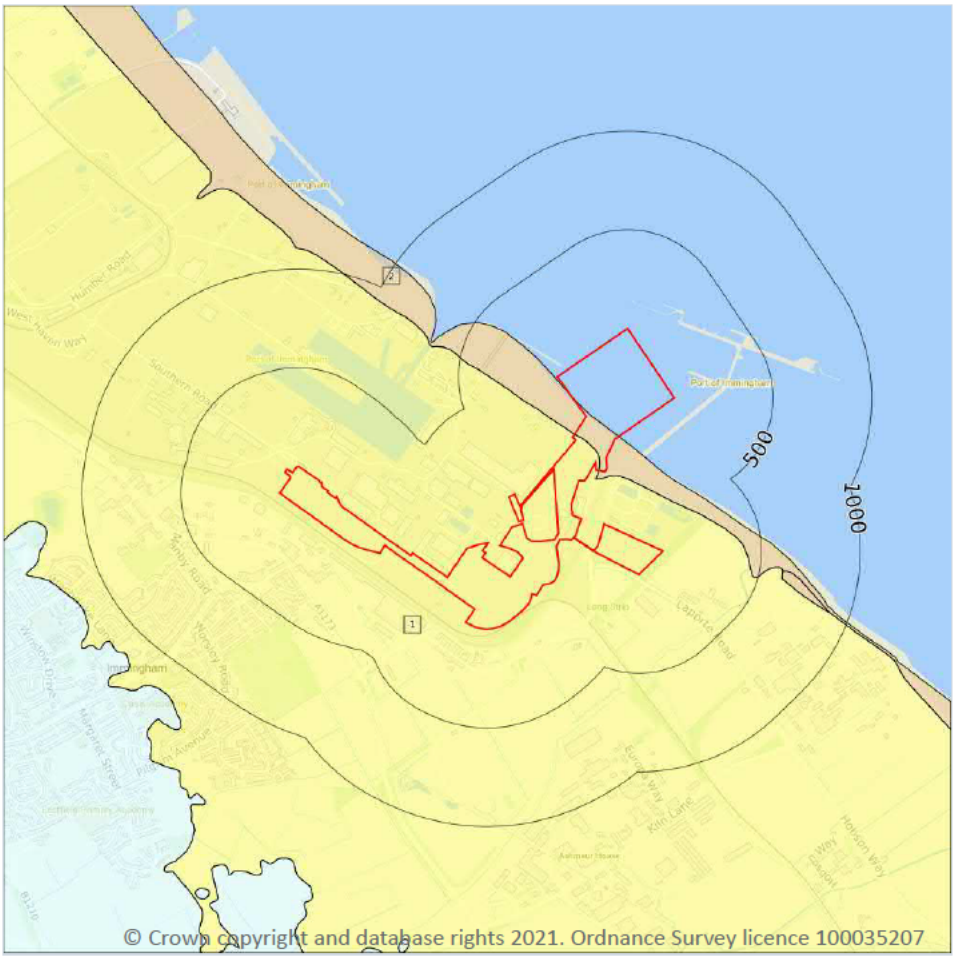
| Records within 50m | 6 |
|---|---|

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).

| Location | Flow type | Maximum permeability | Minimum permeability |
|---|---|---|---|
| **On site** | **Mixed** | **Very High** | **Low** |
| **On site** | **Mixed** | **Very High** | **Low** |
| **On site** | **Mixed** | **Very High** | **Low** |
| **On site** | **Mixed** | **Very High** | **Low** |
| 26m W | Mixed | Very High | Low |
| 40m S | Mixed | Very High | Low |

*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 197**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 1 | On site | TFD-XCZ | TIDAL FLAT DEPOSITS | CLAY AND SILT |
| 2 | On site | BTFU-XCZS | BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED) | CLAY, SILT AND SAND |

*This data is sourced from the British Geological Survey.*

## 15.5 Superficial permeability (50k)

| Records within 50m | 4 |
|---|---|

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 | Intergranular | Moderate | Very Low |
| On site | Intergranular | Low | Very Low |
| On site | Intergranular | Low | Very Low |
| On site | 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.*

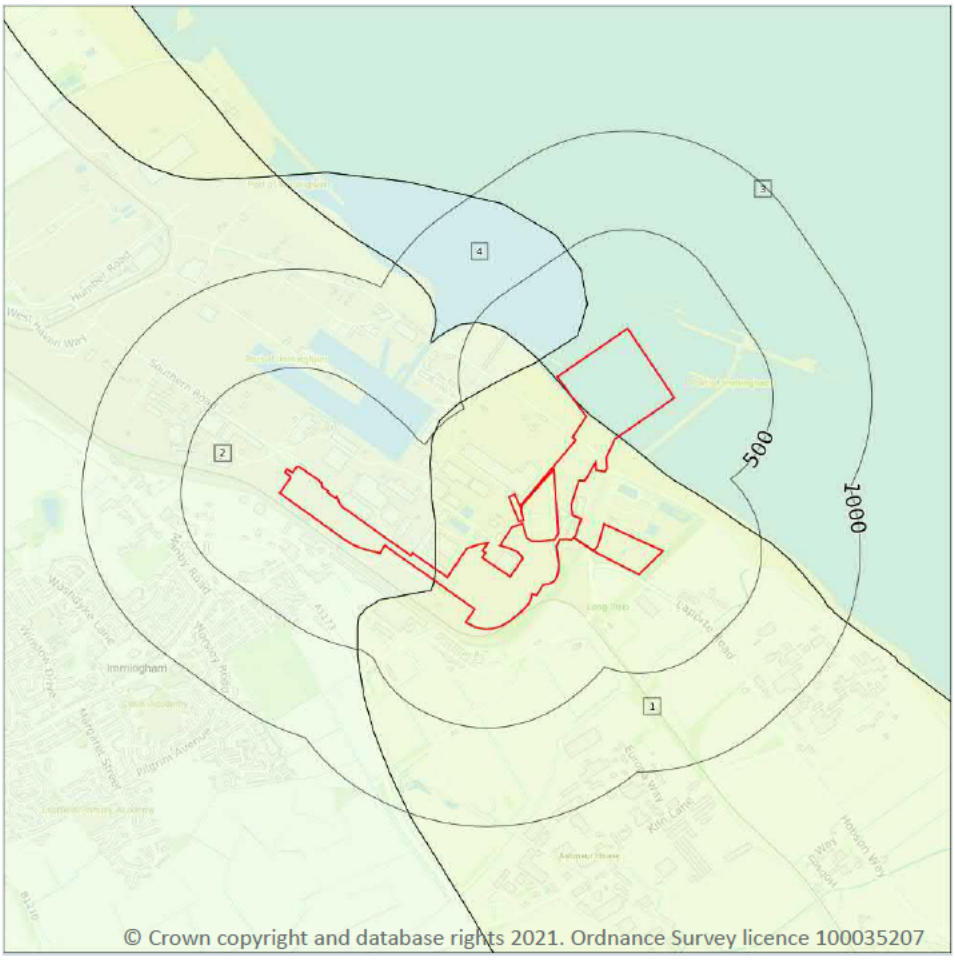
## 15.7 Landslip permeability (50k)

| 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** **4**

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 199**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **FCK-CHLK** | **FLAMBOROUGH CHALK FORMATION - CHALK** | **SANTONIAN** |
| **2** | **On site** | **BCK-CHLK** | **BURNHAM CHALK FORMATION - CHALK** | **TURONIAN** |
| **3** | **On site** | **FCK-CHLK** | **FLAMBOROUGH CHALK FORMATION - CHALK** | **SANTONIAN** |
| 4 | 113m NW | BCK-CHLK | BURNHAM CHALK FORMATION - CHALK | TURONIAN |

*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

| Records within 50m | 4 |
|---|---|

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 |
| On site | Fracture | Very High | Very High |
| On site | Fracture | Very High | Very High |
| On site | Fracture | Very High | Very High |

*This data is sourced from the British Geological Survey.*

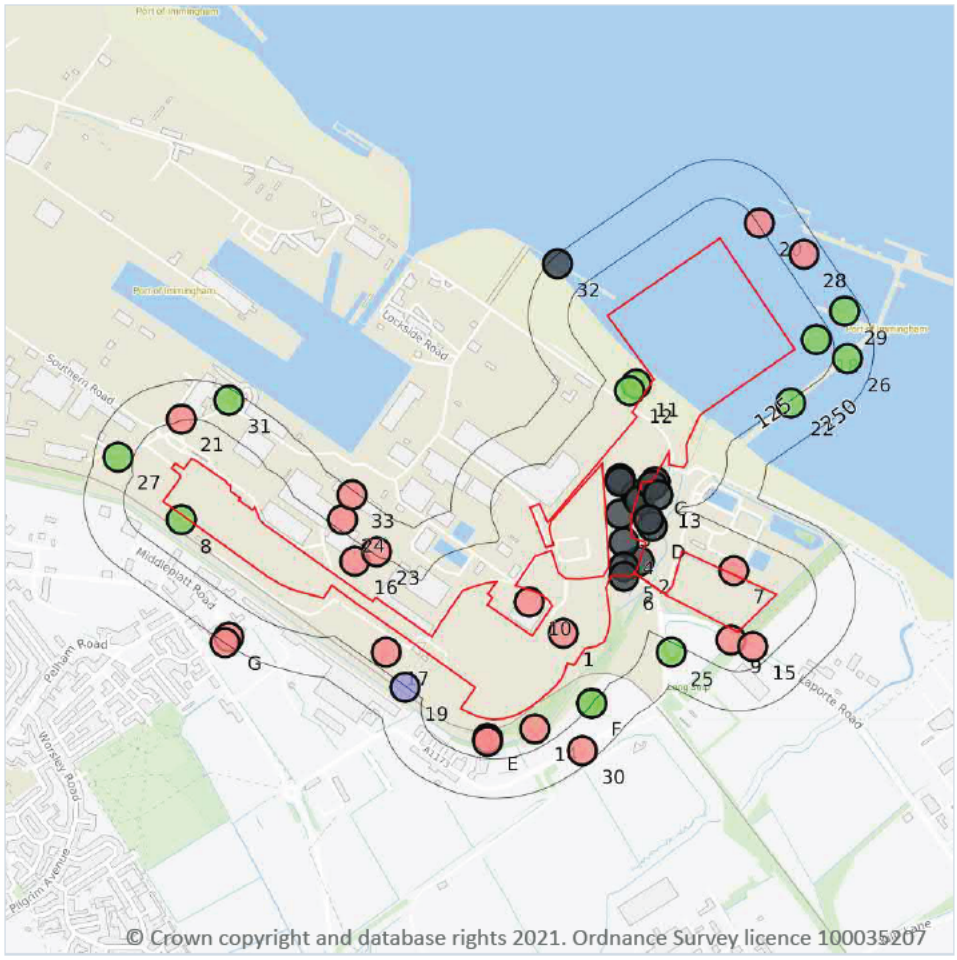
## 15.10 Bedrock faults and other linear features (50k)

| 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




## 16.1 BGS Boreholes

| Records within 250m | 48 |
|---|---|

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 201**

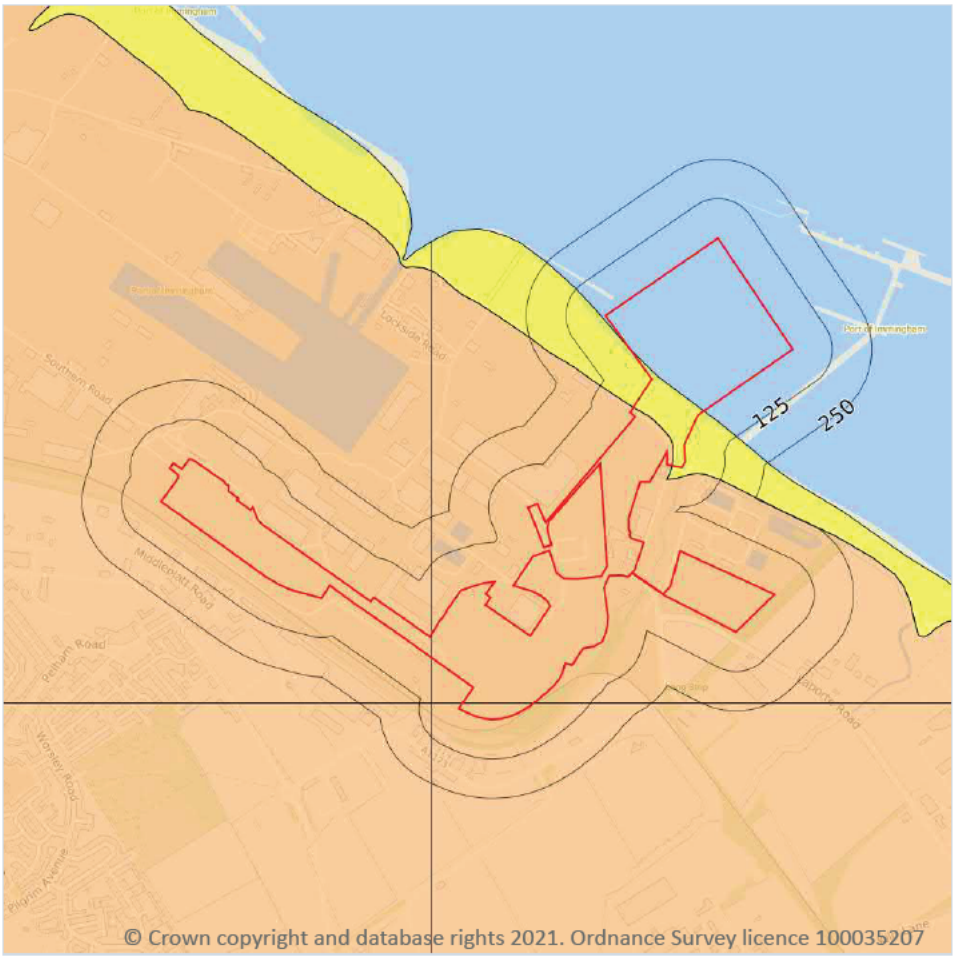
| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 1 | On site | 520410 415220 | IMMINGHAM DOCK LINCS | 31.09 | N | 465017 |
| 2 | On site | 520650 415450 | IMMINGHAM DOCK EX TEXACO SITE TP E | - | Y | N/A |
| 3 | On site | 520590 415600 | IMMINGHAM DOCK EX TEXACO SITE 4 | - | Y | N/A |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| **4** | **On site** | **520600 415510** | **IMMINGHAM DOCK EX TEXACO SITE 6** | **-** | **Y** | **N/A** |
| **5** | **On site** | **520600 415430** | **IMMINGHAM DOCK EX TEXACO SITE 7** | **-** | **Y** | **N/A** |
| **A** | **On site** | **520640 415660** | **IMMINGHAM DOCK EX TEXACO SITE TP C** | **-** | **Y** | **N/A** |
| **B** | **On site** | **520590 415710** | **IMMINGHAM DOCK EX TEXACO SITE TP G** | **-** | **Y** | **N/A** |
| **B** | **On site** | **520590 415700** | **IMMINGHAM DOCK EX TEXACO SITE 2** | **-** | **Y** | **N/A** |
| 6 | 4m S | 520600 415400 | IMMINGHAM DOCK EX TEXACO SITE TP F | - | Y | N/A |
| C | 9m SE | 520700 415700 | IMMINGHAM DOCK EX TEXACO SITE 1 | - | Y | N/A |
| A | 10m E | 520650 415640 | IMMINGHAM DOCK EX TEXACO SITE 3 | - | Y | N/A |
| C | 10m S | 520690 415690 | IMMINGHAM DOCK EX TEXACO SITE TP A | - | Y | N/A |
| 7 | 13m NE | 520950 415420 | MARSHES D LONGMARSH IMMINGHAM | 33.83 | N | 465008 |
| 8 | 14m SW | 519200 415580 | IMMINGHAM 10 | 21.0 | N | 461328 |
| 9 | 33m SW | 520940 415200 | MARSHES C LONGMARSH IMMINGHAM | 30.48 | N | 465007 |
| 10 | 38m S | 520300 415320 | IMMINGHAM DOCK IMMINGHAM LINCS | 60.96 | N | 465010 |
| 11 | 38m NW | 520640 416010 | DOCKS BOARD 34 | 11.41 | N | 465034 |
| 12 | 44m NW | 520620 415990 | DOCKS BOARD 33 | 10.66 | N | 465033 |
| 13 | 45m SE | 520710 415660 | IMMINGHAM DOCK EX TEXACO SITE TP B | - | Y | N/A |
| D | 55m N | 520690 415560 | IMMINGHAM DOCK EX TEXACO SITE TP D | - | Y | N/A |
| D | 57m E | 520680 415580 | IMMINGHAM DOCK EX TEXACO SITE 5 | - | Y | N/A |
| E | 60m S | 520170 414890 | IMMINGHAM LOCO SHEDS 4 | 47.55 | N | 465844 |
| 14 | 66m SE | 520320 414920 | IMMINGHAM LOCO SHEDS, NO. 3 | 64.77 | N | 465754 |
| 15 | 66m SE | 521010 415180 | MARSHES A LONGMARSH IMMINGHAM | 31.4 | N | 465006 |
| E | 70m S | 520170 414880 | IMMINGHAM LOCO SHEDS 5 | 44.5 | N | 465845 |
| 16 | 72m NE | 519750 415450 | FISONS NEW FACTORY NO.2 | 106.68 | N | 461255 |
| 17 | 74m SW | 519850 415160 | IMMINGHAM DOCK LOCO SHED 11 | 73.76 | N | 461245 |
| 18 | 75m NE | 521210 416150 | IMMINGHAM OIL TERMINAL MB6 | 18.28 | N | 465030 |
| F | 123m SE | 520500 415000 | IMMINGHAM 1 | 27.5 | N | 465040 |
| F | 123m SE | 520500 415000 | IMMINGHAM 2 | 32.6 | N | 465041 |
| F | 123m SE | 520500 415000 | IMMINGHAM 3 | 26.5 | N | 465042 |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 19 | 128m SW | 519910 415050 | IMMINGHAM DOCK AREA IMMINGHAM LINCS | -2.0 | N | 461032 |
| 20 | 131m NE | 521030 416520 | IMMINGHAM OIL TERMINAL MB8 | 39.47 | N | 465032 |
| 21 | 131m N | 519200 415900 | IMMINGHAM 16 | 40.0 | N | 461334 |
| 22 | 133m SE | 521130 415950 | DOCKS BOARD 43 | 24.76 | N | 465035 |
| 23 | 137m NE | 519820 415480 | FISON PACKARD IMMINGHAM | 91.44 | N | 460979 |
| 24 | 155m NE | 519710 415580 | FISONS FACTORY IMMINGHAM NO.1 | 107.26 | N | 461306 |
| 25 | 155m SW | 520750 415160 | IMMINGHAM HMB 10 | 11.0 | N | 465044 |
| 26 | 171m E | 521310 416090 | DOCKS BOARD 44 | 21.64 | N | 465036 |
| 27 | 174m W | 519000 415780 | IMMINGHAM 13 | 28.2 | N | 461331 |
| 28 | 191m NE | 521170 416420 | IMMINGHAM OIL TERMINAL MB7 | 37.94 | N | 465031 |
| 29 | 199m NE | 521300 416240 | DOCKS BOARD 45 | 21.64 | N | 465037 |
| 30 | 210m SE | 520470 414850 | IMMINGHAM LOCO SHEDS | 73.76 | N | 465843 |
| 31 | 217m NE | 519350 415960 | CONOCO NO 1COKER EXPANSION IMMINGHAM 5 | 25.0 | N | 461239 |
| G | 227m SW | 519350 415210 | IMMINGHAM EAST | 31.09 | N | 461263 |
| 32 | 228m NW | 520390 416390 | IMMINGHAM DOCK EASTERN JETTY 4 | - | Y | N/A |
| 33 | 237m NE | 519740 415660 | FISONS IMMINGHAM | 91.44 | N | 461241 |
| G | 249m SW | 519340 415190 | IMMINGHAM EAST LINCS | 31.09 | N | 461033 |

*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 |
|---|---|

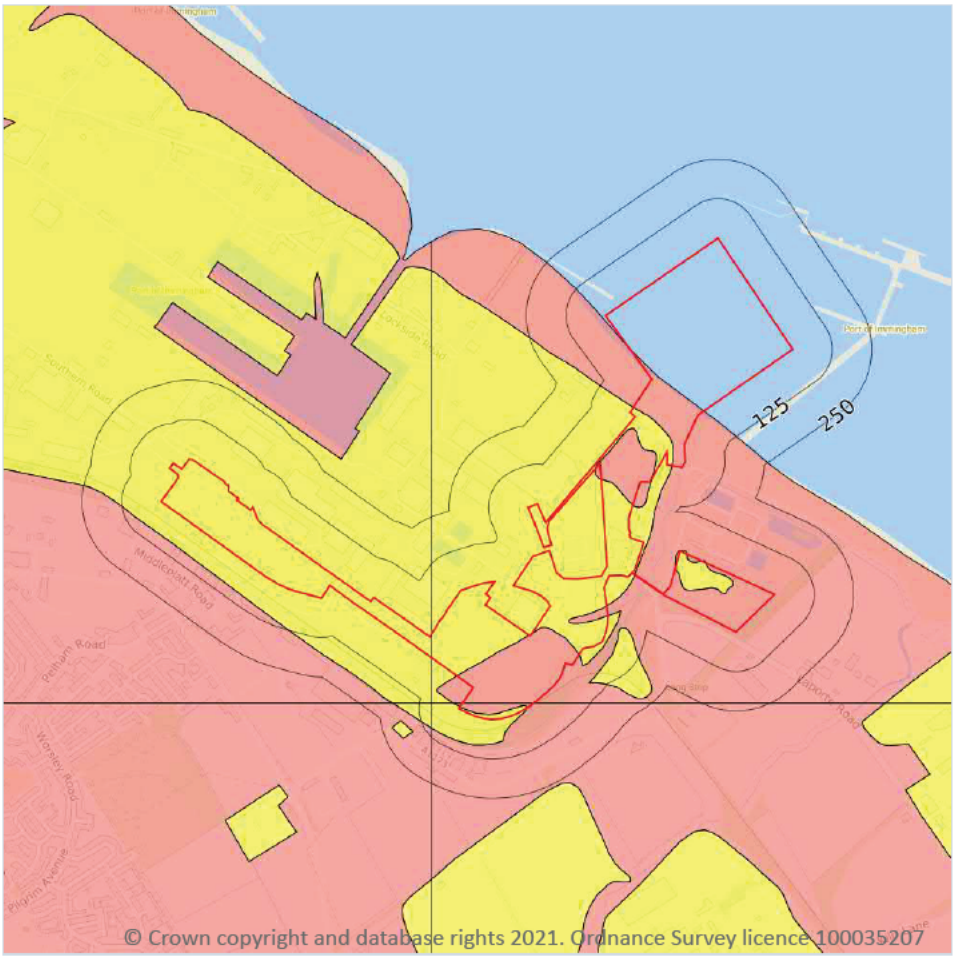
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 204**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Ground conditions predominantly low plasticity.** |
| **On site** | **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 | 3 |
|---|---|

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.

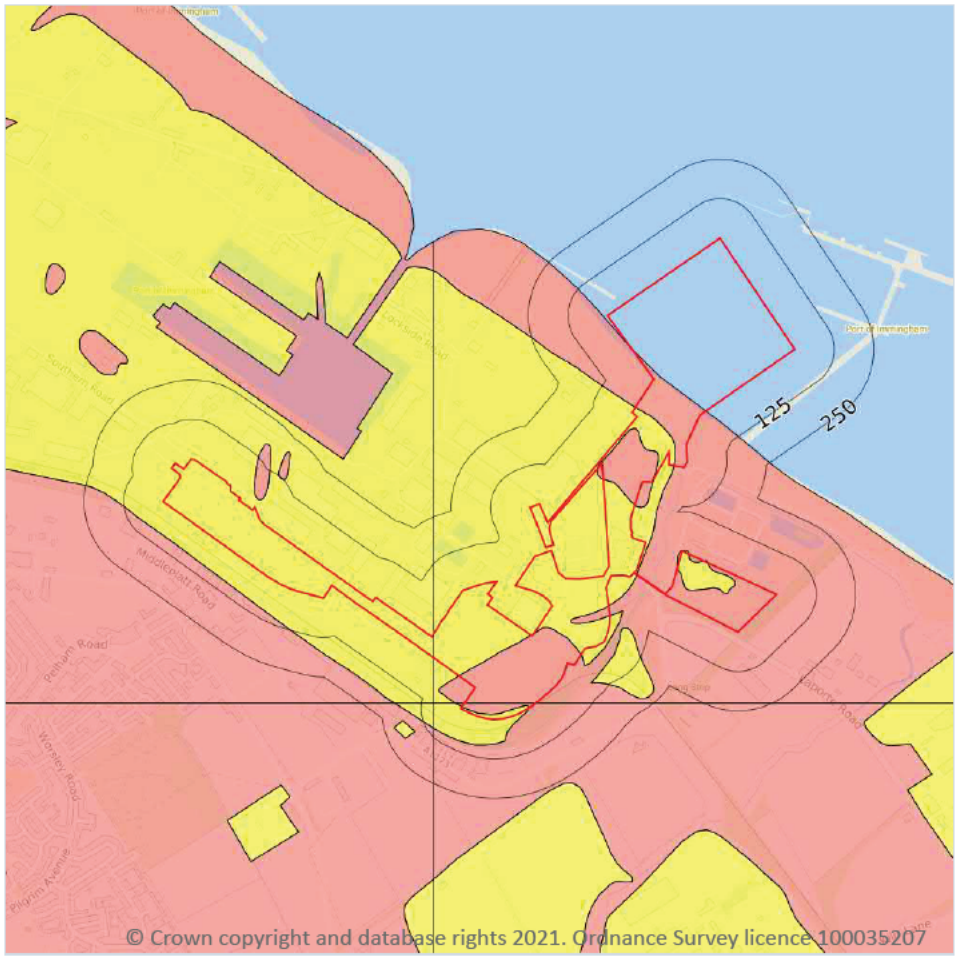
Features are displayed on the Natural ground subsidence - Running sands map on **page 205**

| 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 |
|---|---|---|
| **On site** | **Moderate** | **Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.** |
| 40m E | Very low | Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly. |

*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 | 4 |
|---|---|

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.

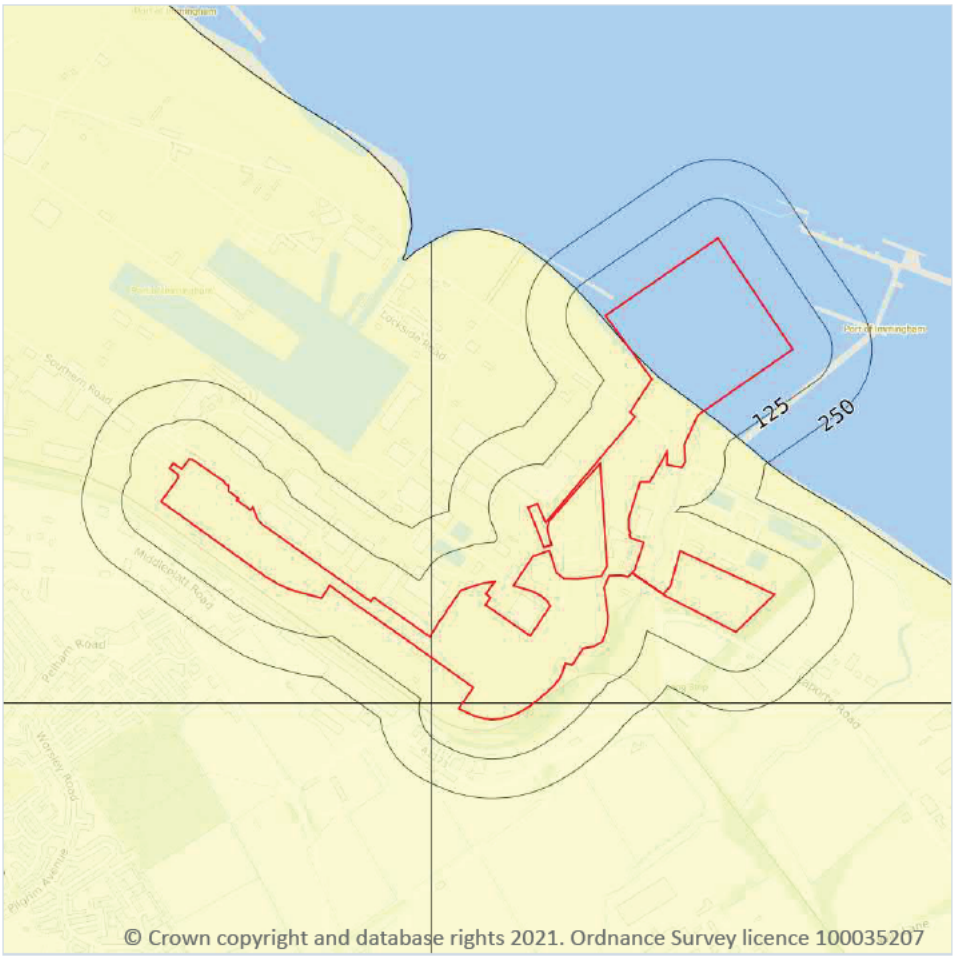
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 207**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.** |

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Moderate** | **Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.** |
| 26m NE | Moderate | Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site. |
| 40m E | Very low | Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses. |

*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 | 1 |
|---|---|

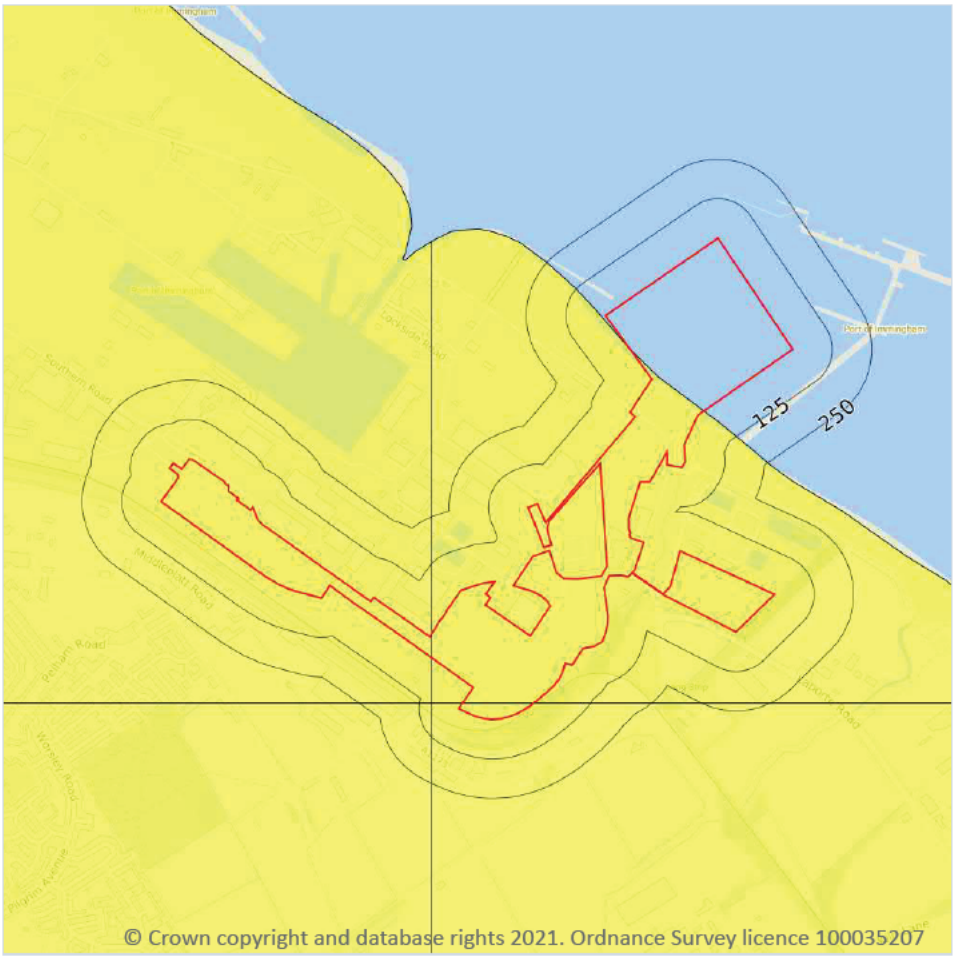
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 209**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **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 | 1 |
|---|---|

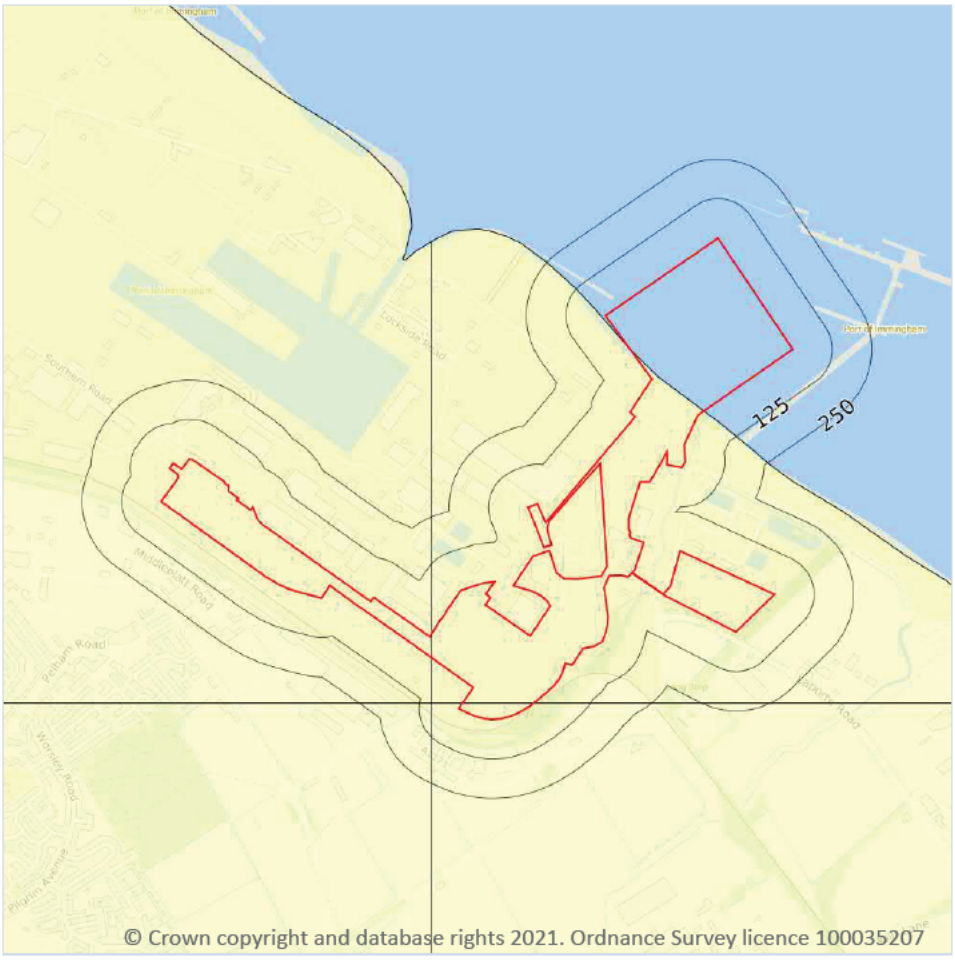
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 210**

| 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.** |

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Ground dissolution of soluble rocks




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 |
|---|---|

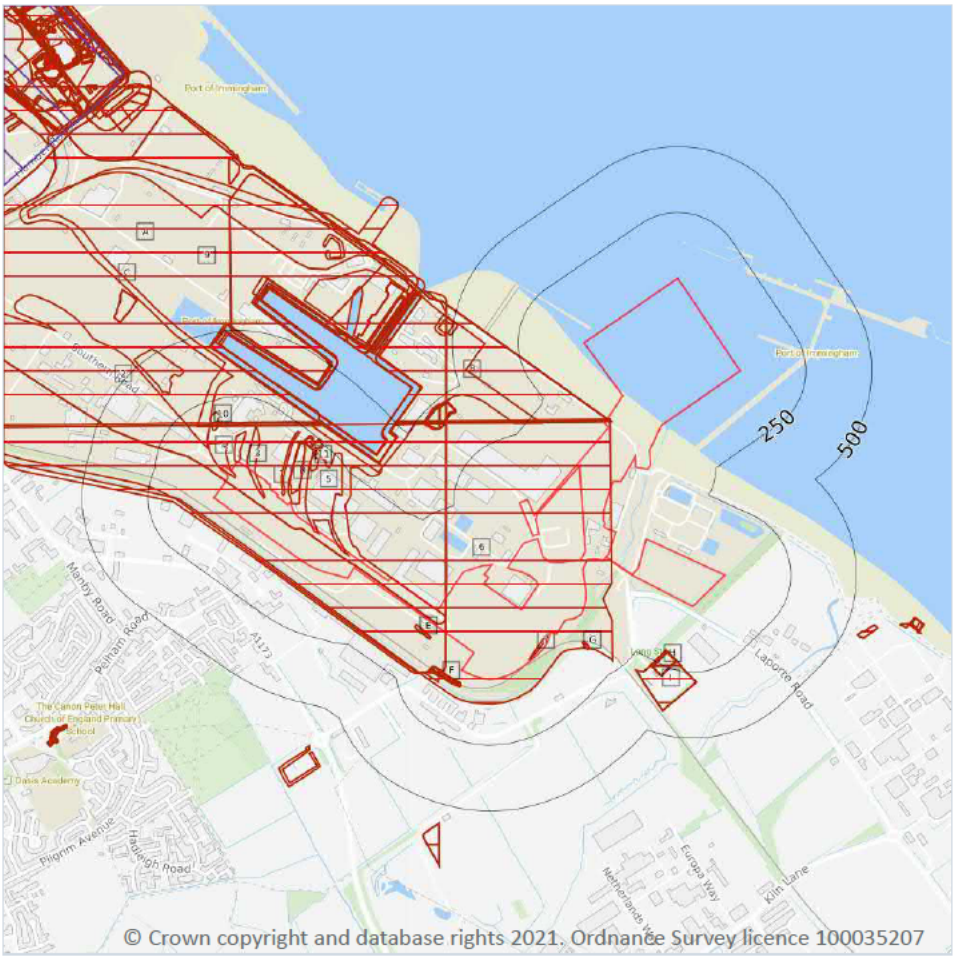
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 211**

| 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, ground workings and natural cavities




Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

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 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.*

## 18.2 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.*

## 18.3 Surface ground workings

| Records within 250m | 39 |
|---|---|

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, ground workings and natural cavities map on **page 213**

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| **1** | **On site** | **Dock** | **1968** | **1:10560** |
| **2** | **On site** | **Docks** | **1951** | **1:10560** |
| **3** | **On site** | **Unspecified Pit** | **1983** | **1:10000** |
| **4** | **On site** | **Unspecified Pit** | **1983** | **1:10000** |
| **5** | **On site** | **Unspecified Ground Workings** | **1968** | **1:10560** |
| **6** | **On site** | **Unspecified Dock** | **1930** | **1:10560** |
| **7** | **On site** | **Pond** | **1972** | **1:10000** |
| **A** | **On site** | **Dock** | **1947** | **1:10560** |
| **A** | **On site** | **Dock** | **1947** | **1:10560** |
| **B** | **On site** | **Graving Dock** | **1947** | **1:10560** |
| **B** | **On site** | **Graving Dock** | **1947** | **1:10560** |
| **C** | **On site** | **Docks** | **1974** | **1:10000** |
| **C** | **On site** | **Docks** | **1983** | **1:10000** |
| 8 | 0m N | Unspecified Pit | 1983 | 1:10000 |
| D | 6m E | Cuttings | 1968 | 1:10560 |
| D | 15m NE | Unspecified Ground Workings | 1968 | 1:10560 |
| D | 34m N | Water Body | 1974 | 1:10000 |

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| E | 40m SW | Unspecified Heap | 1886 | 1:10560 |
| E | 42m SW | Unspecified Heap | 1930 | 1:10560 |
| F | 45m SW | Unspecified Pit | 1886 | 1:10560 |
| F | 45m SW | Unspecified Pit | 1930 | 1:10560 |
| F | 49m SW | Unspecified Pit | 1965 | 1:10560 |
| F | 87m W | Unspecified Pit | 1951 | 1:10560 |
| F | 90m W | Unspecified Pit | 1951 | 1:10560 |
| G | 95m S | Unspecified Heap | 1886 | 1:10560 |
| G | 95m S | Unspecified Heap | 1930 | 1:10560 |
| G | 97m SE | Unspecified Heap | 1938 | 1:10560 |
| 9 | 137m N | Dock | 1930 | 1:10560 |
| 10 | 140m N | Pond | 1974 | 1:10000 |
| 11 | 144m NE | Water Body | 1974 | 1:10000 |
| H | 193m SW | Sewage Works | 1972 | 1:10000 |
| H | 195m SW | Sewage Works | 1952 | 1:10560 |
| H | 198m SW | Sewage Works | 1947 | 1:10560 |
| H | 198m SW | Sewage Works | 1947 | 1:10560 |
| H | 201m SW | Sewage Works | 1947 | 1:10560 |
| H | 201m SW | Sewage Works | 1930 | 1:10560 |
| 12 | 204m NE | Unspecified Heap | 1974 | 1:10000 |
| I | 231m S | Sewage Works | 1988 | 1:10000 |
| I | 231m S | Sewage Works | 1980 | 1:10000 |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 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.*

## 18.5 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 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.*

## 18.8 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.*

## 18.9 Coal mining

| Records on site | 1 |
|---|---|

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

| Location | Details |
|---|---|
| **On site** | **The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.** |

*This data is sourced from the Coal Authority.*

## 18.10 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.*

## 18.11 Gypsum areas

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

## 18.13 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 Radon




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%

## 19.1 Radon

| Records on site | 1 |
|---|---|

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 218**

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

*This data is sourced from the British Geological Survey and Public Health England.*

# 20 Soil chemistry

## 20.1 BGS Estimated Background Soil Chemistry

| Records within 50m | 16 |
|---|---|

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 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| On site | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|---|---|---|---|---|---|---|---|
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| 49m N | 15 - 25 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.*

## 20.2 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.*

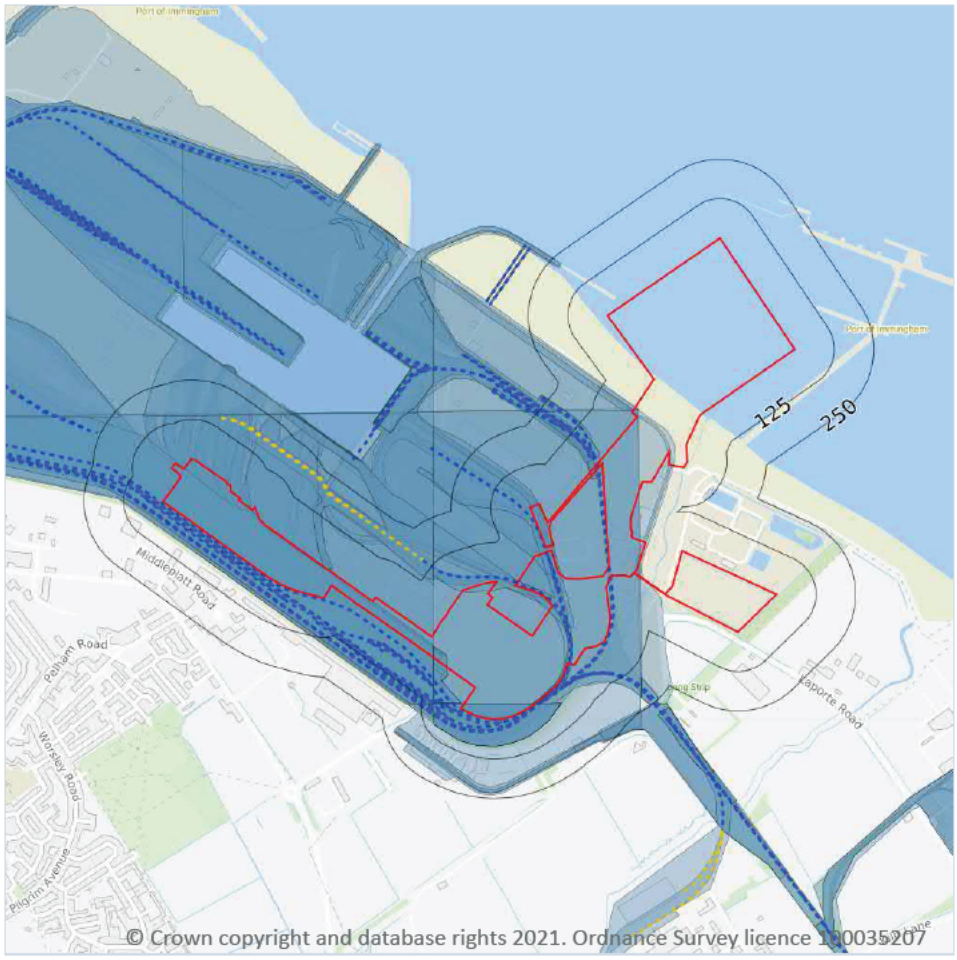
## 20.3 BGS Measured Urban Soil Chemistry

| 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.*

# 21 Railway infrastructure and projects




Site Outline
Search buffers in metres (m)
Crossrail 1 Stations
Crossrail 1 Route
Crossrail 1 Worksites
Crossrail 2 Stations
Crossrail 2 Route
Crossrail 2 Worksites
Crossrail 2 Safeguarding
Crossrail 2 Headhouses
Railway stations
Active railways
Active tunnels
Abandoned railways
Historic railways
Historic tunnels
Underground stations
Underground Lines
Royal Mail tunnels
HS2 optimised route
HS2 Stations
HS2 Depots
HS2 Surface Safeguarding
HS2 Subsurface Safeguarding

## 21.1 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.*

## 21.2 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.*

## 21.3 Railway tunnels

| Records within 250m | 0 |
|---|---|

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 21.4 Historical railway and tunnel features

| Records within 250m | 79 |
|---|---|

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 221**

| Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|
| On site | Railway Sidings | 1964 | 2500 |
| On site | Railway Sidings | 1932 | 2500 |
| On site | Railway Sidings | 1969 | 2500 |
| On site | Railway Sidings | 1982 | 2500 |
| On site | Railway Sidings | 1979 | 2500 |
| On site | Railway Sidings | 1996 | 2500 |
| On site | Railway Sidings | 1999 | 2500 |
| On site | Railway Sidings | 1971 | 2500 |
| On site | Railway Sidings | 1988 | 2500 |
| On site | Railway Sidings | 1972 | 2500 |
| On site | Disused Railway Sidings | 1964 | 2500 |
| On site | Railway Sidings | 1930 | 10560 |
| On site | Railway Sidings | 1886 | 10560 |
| On site | Railway Sidings | 1947 | 10560 |
| On site | Railway Sidings | 1938 | 10560 |
| On site | Railway Sidings | 1968 | 10560 |
| On site | Railway Sidings | 1972 | 10000 |

| Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|
| **On site** | **Railway Sidings** | **1988** | **10000** |
| **On site** | **Railway Sidings** | **1980** | **10000** |
| **On site** | **Railway Sidings** | **1974** | **10000** |
| **On site** | **Railway Sidings** | **1983** | **10000** |
| **On site** | **Railway Sidings** | **1952** | **10560** |
| **On site** | **Railway Sidings** | **1965** | **10560** |
| **On site** | **Railway Sidings** | **1951** | **10560** |
| 0m NW | Railway Sidings | 1930 | 10560 |
| 1m NE | Railway Sidings | 1964 | 2500 |
| 1m NE | Railway Sidings | 1972 | 2500 |
| 7m NW | Railway Sidings | 1964 | 2500 |
| 7m NW | Railway Sidings | 1971 | 2500 |
| 8m N | Railway Sidings | 1996 | 2500 |
| 8m N | Railway Sidings | 1999 | 2500 |
| 14m NW | Railway Sidings | 1972 | 10000 |
| 19m NW | Railway Sidings | 1964 | 2500 |
| 19m NW | Railway Sidings | 1971 | 2500 |
| 22m SW | Railway Sidings | 1964 | 2500 |
| 22m SW | Railway Sidings | 1971 | 2500 |
| 22m SW | Railway Sidings | 1969 | 2500 |
| 22m SW | Railway Sidings | 1979 | 2500 |
| 24m NW | Railway Sidings | 1969 | 2500 |
| 24m NW | Railway Sidings | 1979 | 2500 |
| 26m NW | Railway Sidings | 1996 | 2500 |
| 26m NW | Railway Sidings | 1999 | 2500 |
| 28m NW | Railway Sidings | 1964 | 2500 |
| 28m NW | Railway Sidings | 1971 | 2500 |
| 50m S | Railway Sidings | 1996 | 2500 |

| Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|
| 52m W | Railway Sidings | 1996 | 2500 |
| 52m W | Railway Sidings | 1999 | 2500 |
| 58m W | Railway Sidings | 1969 | 2500 |
| 58m W | Railway Sidings | 1979 | 2500 |
| 76m NW | Railway Sidings | 1969 | 2500 |
| 76m NW | Railway Sidings | 1979 | 2500 |
| 83m W | Railway Sidings | 1969 | 2500 |
| 83m W | Railway Sidings | 1979 | 2500 |
| 85m W | Railway Sidings | 1985 | 2500 |
| 85m W | Railway Sidings | 1985 | 2500 |
| 85m W | Railway Sidings | 1969 | 2500 |
| 85m W | Railway Sidings | 1966 | 2500 |
| 101m NW | Railway Sidings | 1988 | 2500 |
| 102m NW | Railway Sidings | 1996 | 2500 |
| 103m NW | Railway Sidings | 1996 | 2500 |
| 103m NW | Railway Sidings | 1999 | 2500 |
| 126m NW | Railway Sidings | 1996 | 2500 |
| 126m NW | Railway Sidings | 1999 | 2500 |
| 137m N | Railway Sidings | 1930 | 10560 |
| 162m SW | Railway Sidings | 1930 | 10560 |
| 164m SE | Railway Sidings | 1947 | 10560 |
| 164m SE | Railway Sidings | 1930 | 10560 |
| 171m W | Railway Sidings | 1982 | 2500 |
| 173m SW | Railway Sidings | 1932 | 2500 |
| 185m SE | Railway Sidings | 1965 | 10560 |
| 197m SE | Railway Sidings | 1968 | 10560 |
| 202m W | Railway Sidings | 1964 | 2500 |
| 207m NW | Railway Sidings | 1930 | 10560 |

| Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|
| 220m SE | Railway Sidings | 1964 | 2500 |
| 227m N | Railway Sidings | 1964 | 2500 |
| 227m N | Railway Sidings | 1972 | 2500 |
| 227m NW | Railway Sidings | 1930 | 10560 |
| 237m N | Railway Sidings | 1964 | 2500 |
| 237m N | Railway Sidings | 1972 | 2500 |

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 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.*

## 21.6 Historical railways

| Records within 250m | 2 |
|---|---|

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

Features are displayed on the Railway infrastructure and projects map on **page 221**

| Location | Description |
|---|---|
| 157m NE | Disused |
| 171m NE | Disused |

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

| Records within 250m | 49 |
|---|---|

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 221**

| Location | Name | Type |
|---|---|---|
| **On site** | | **rail** |
| **On site** | | **rail** |
| **On site** | | **rail** |
| **On site** | | **rail** |
| **On site** | | **rail** |
| **On site** | | **rail** |
| **On site** | | **rail** |
| 5m SE | Not given | Multi Track |
| 5m SE | Brocklesby and Immingham Branch | rail |
| 5m SW | | rail |
| 6m SE | | rail |
| 6m SE | Not given | Multi Track |
| 8m SE | Brocklesby and Immingham Branch | rail |
| 9m SE | | rail |
| 9m SE | | rail |
| 9m SW | | rail |
| 9m S | | rail |
| 10m S | Not given | Single Track |
| 12m SW | | rail |
| 13m SW | | rail |
| 17m SW | | rail |
| 18m SE | Pyewipe Branch | rail |
| 22m SE | Pyewipe Branch | rail |
| 22m SW | | rail |

| Location | Name | Type |
|---|---|---|
| 22m SW | | rail |
| 27m NW | | rail |
| 27m NW | | rail |
| 27m SW | | rail |
| 29m NW | | rail |
| 45m SW | | rail |
| 50m NW | | rail |
| 54m SW | | rail |
| 56m SW | | rail |
| 57m W | | rail |
| 59m S | | rail |
| 62m SW | | rail |
| 67m SW | | rail |
| 75m SW | | rail |
| 79m S | | rail |
| 83m NW | | rail |
| 94m SE | Not given | Multi Track |
| 108m NW | | rail |
| 116m SW | | rail |
| 146m NW | | rail |
| 146m NW | | rail |
| 146m NW | | rail |
| 146m NW | | rail |
| 202m NW | | rail |
| 217m SE | Not given | Multi Track |

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

| Records within 500m | 0 |
|---|---|

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 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.*

## 21.10 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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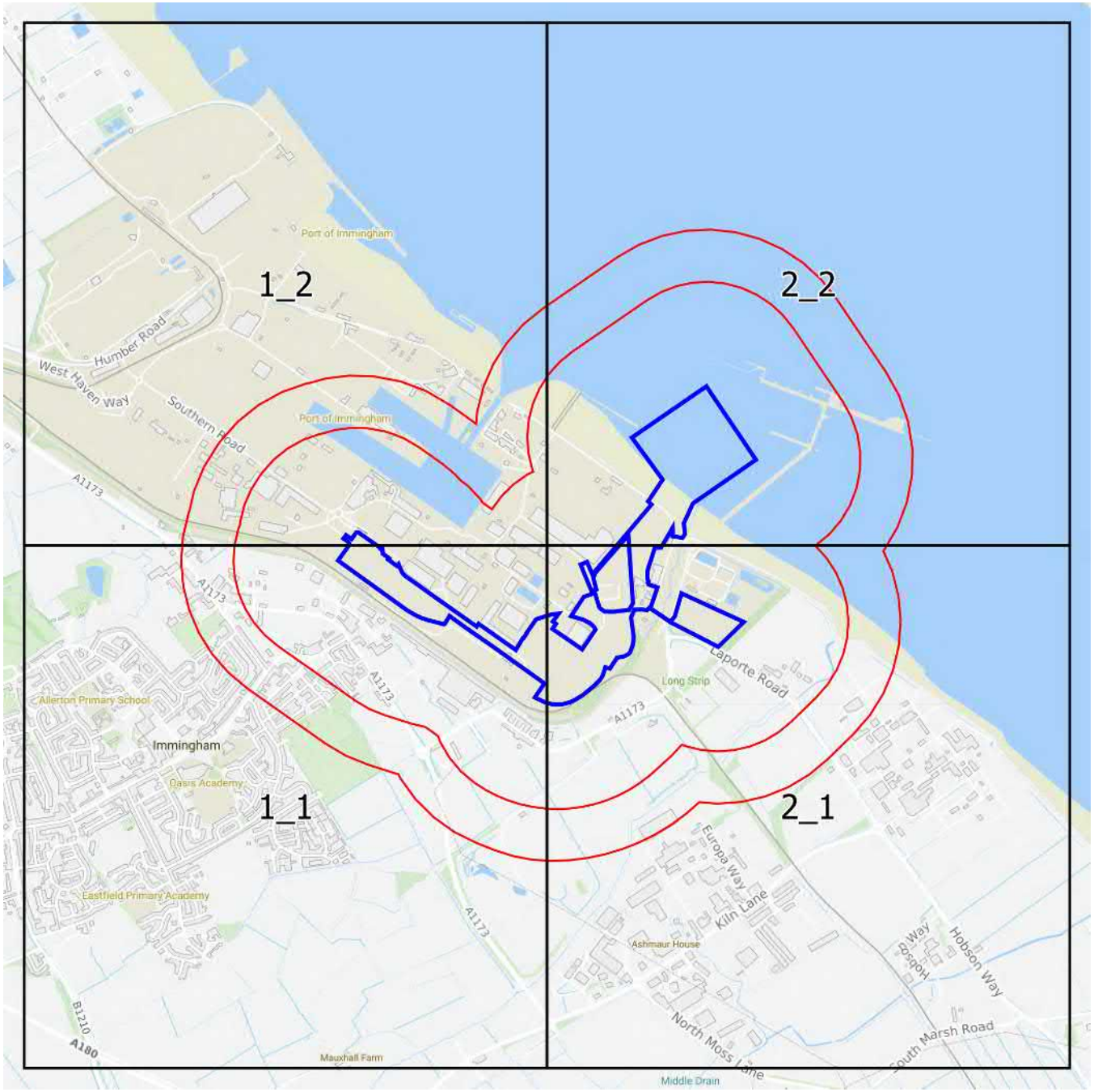


## Small Scale Grid Index

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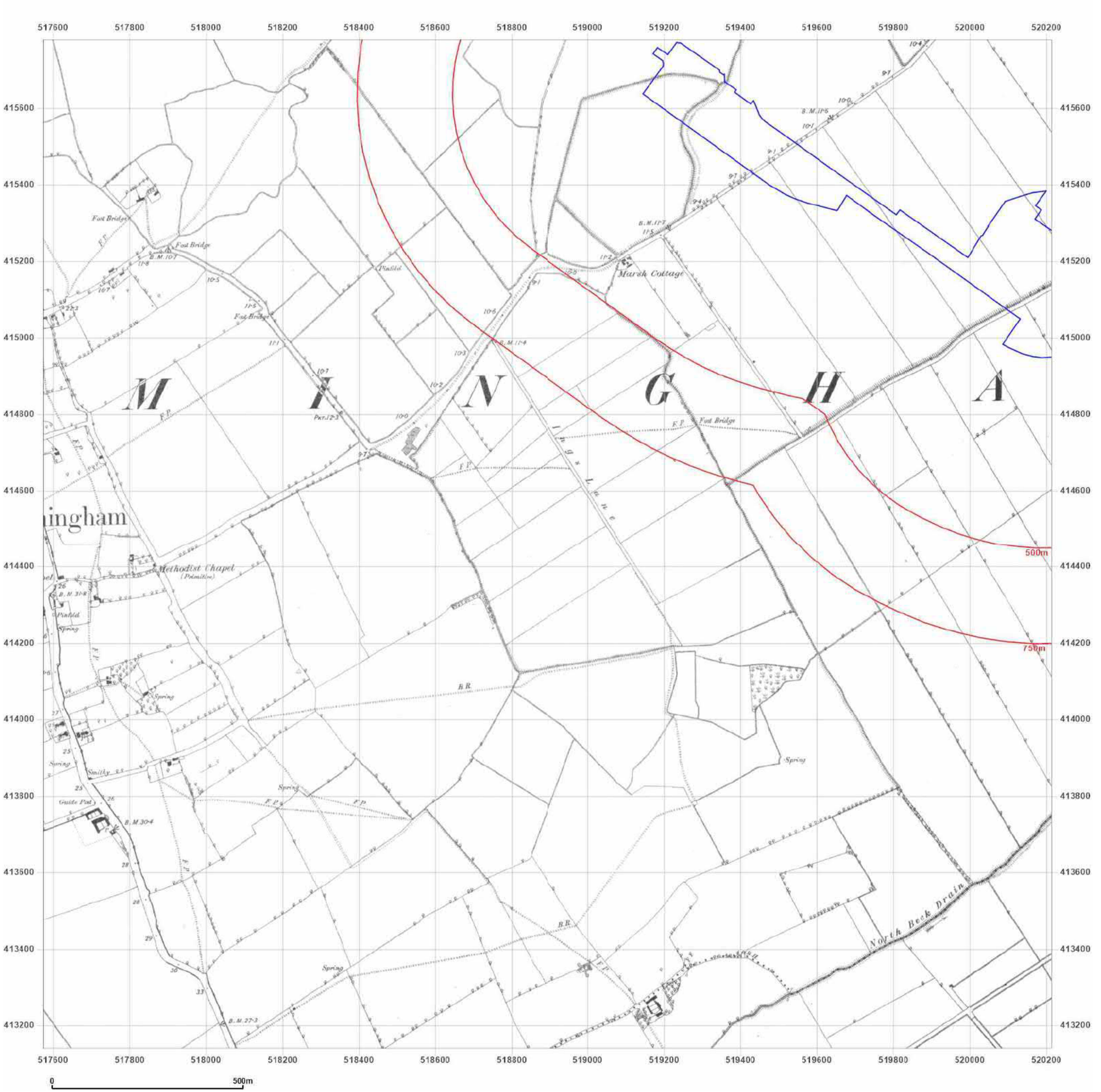
S




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1886**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
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Edition N/A
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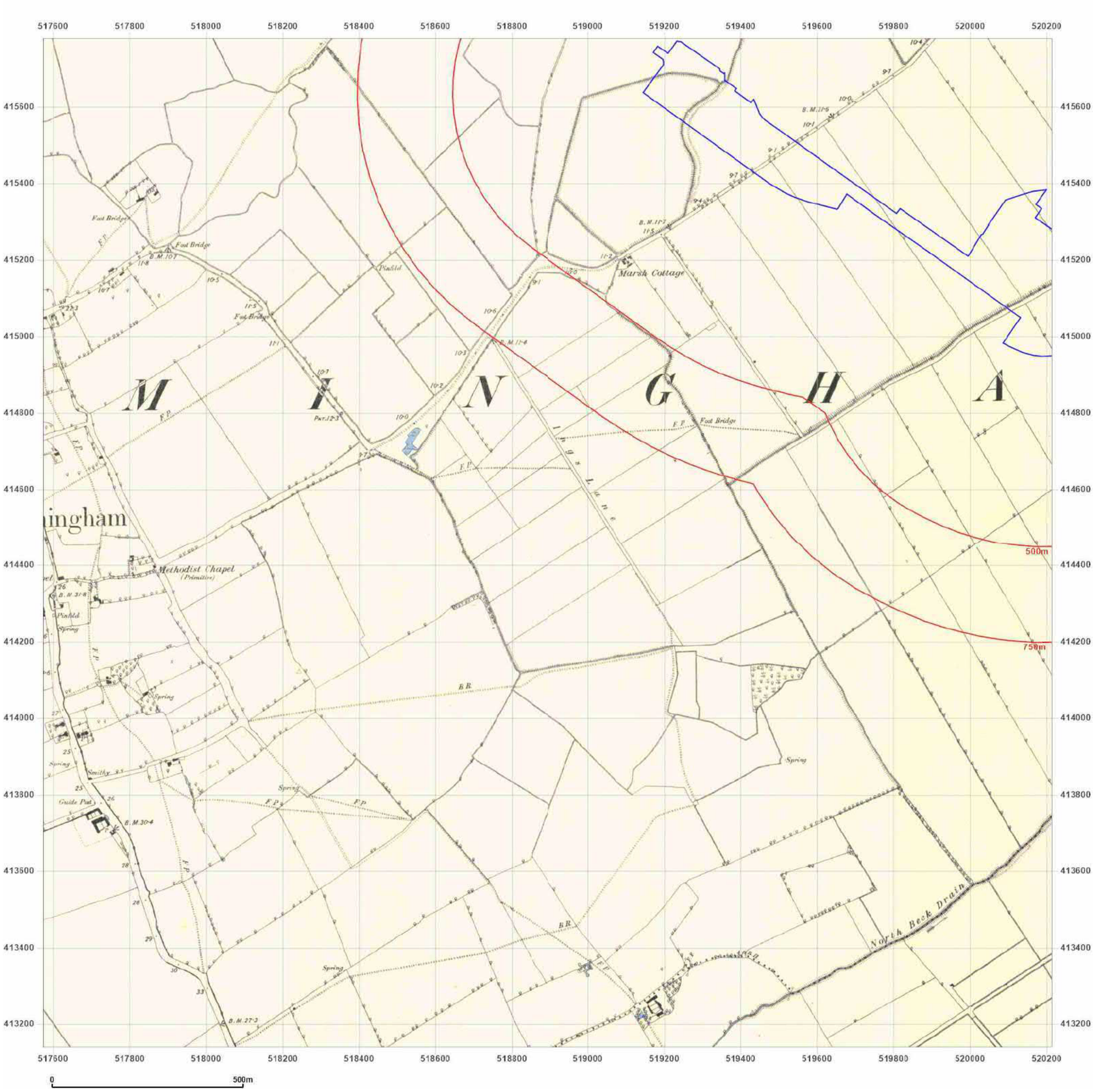
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1887**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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Surveyed 1886
Revised N/A
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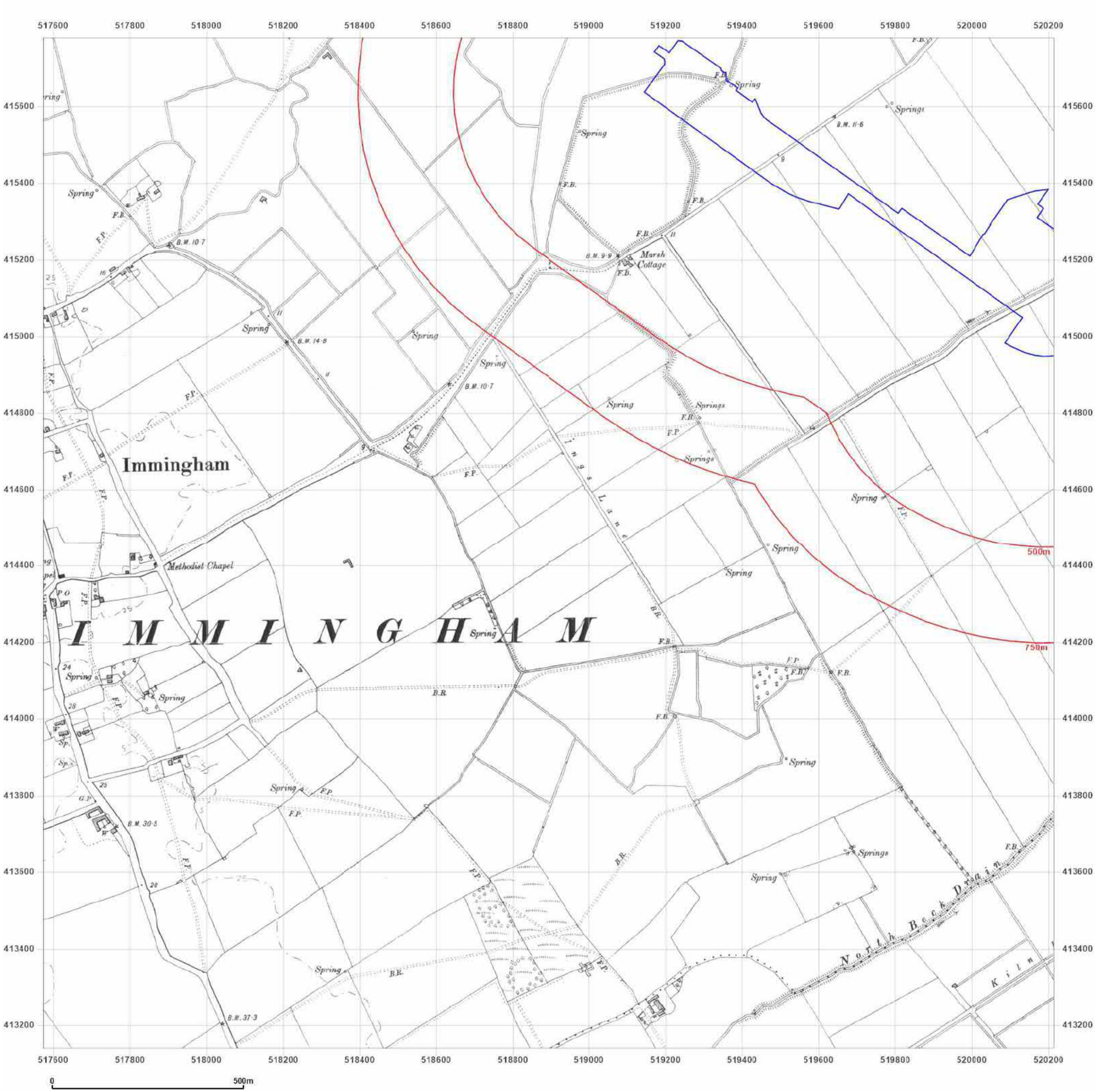
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1905**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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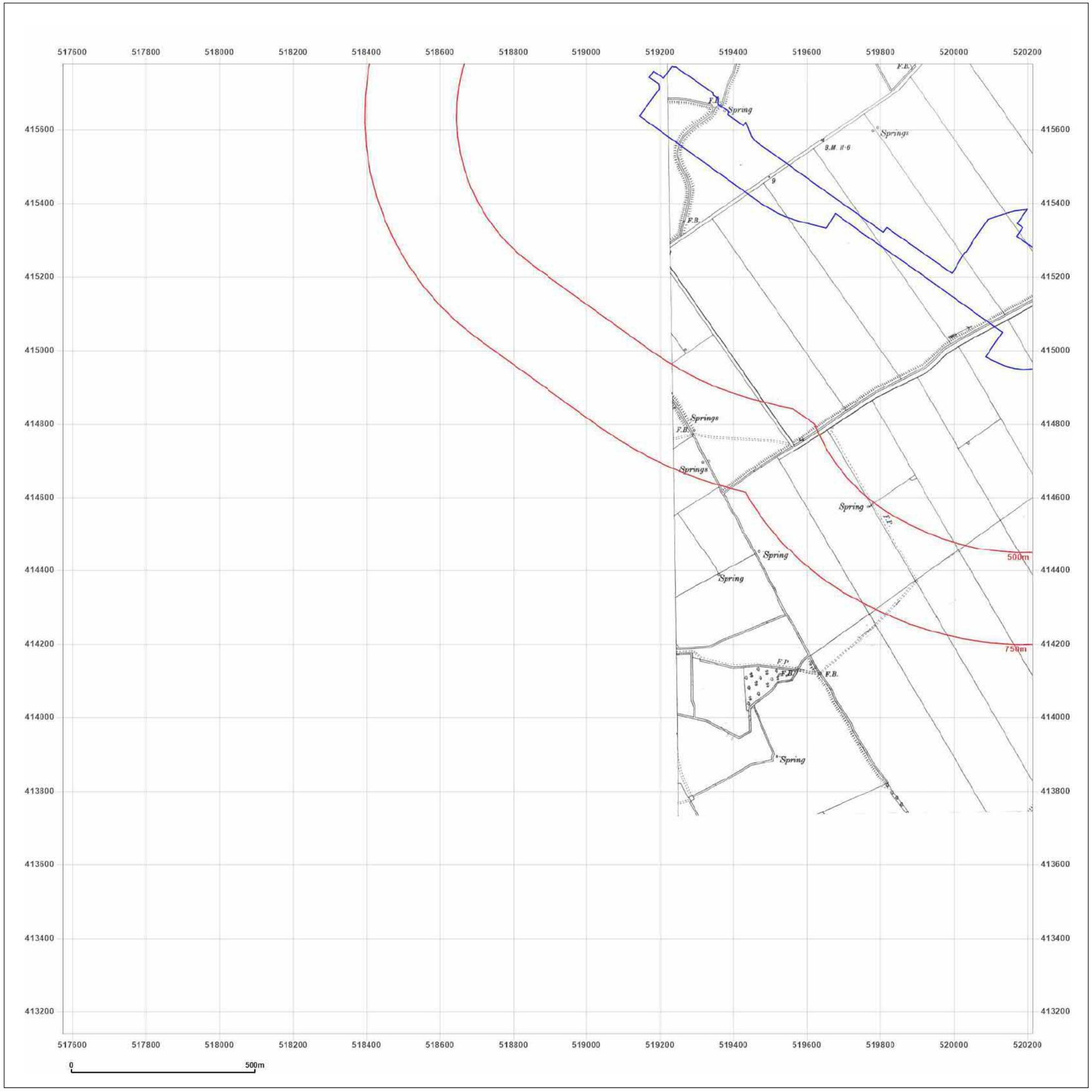
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

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

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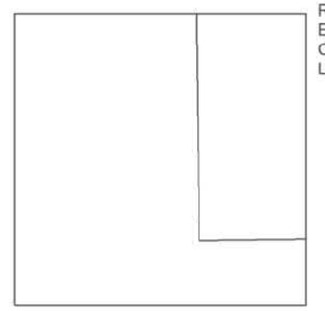

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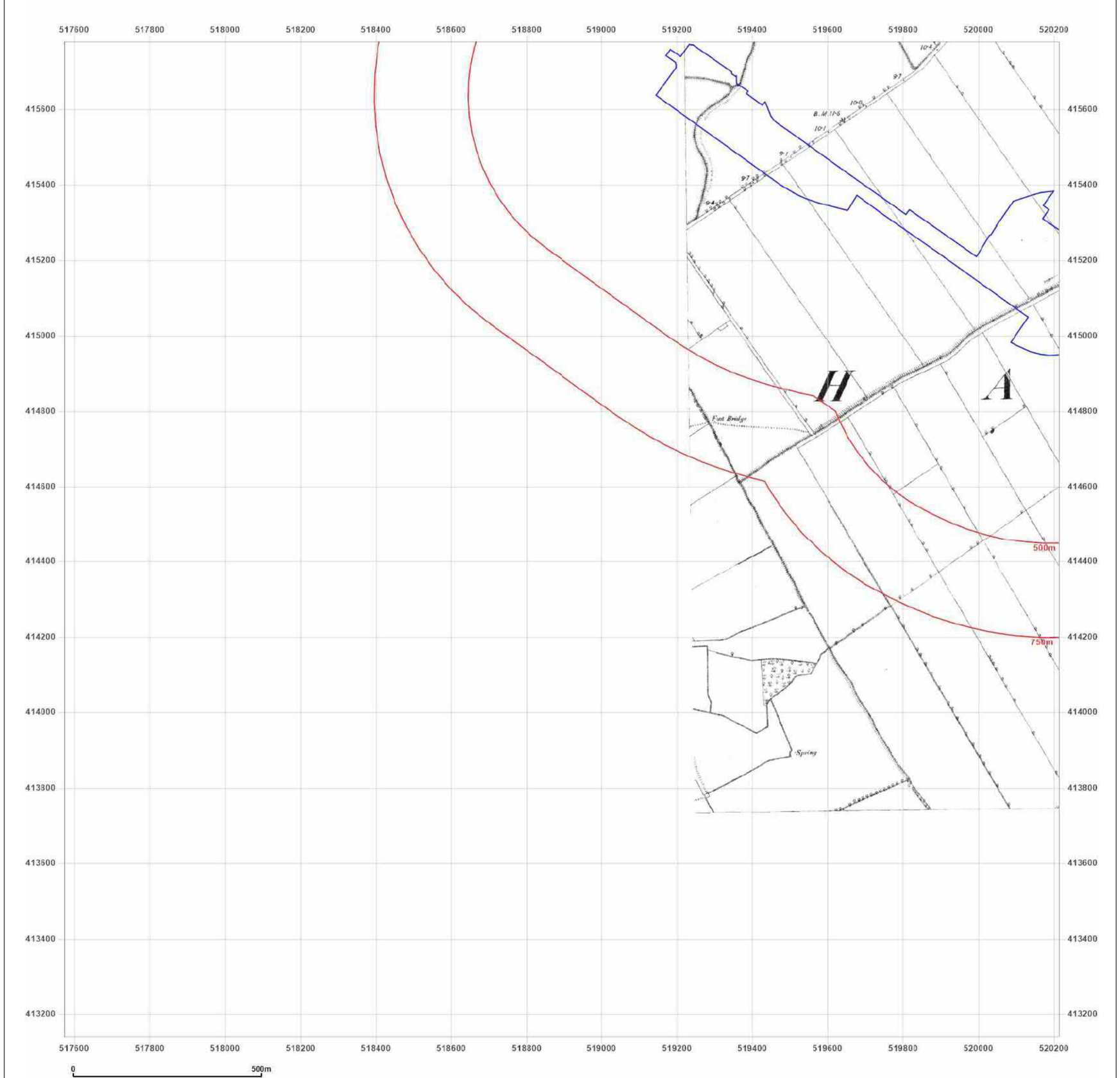
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series
**Map date:** **1907**
**Scale:** 1:10,560
**Printed at:** 1:10,560

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

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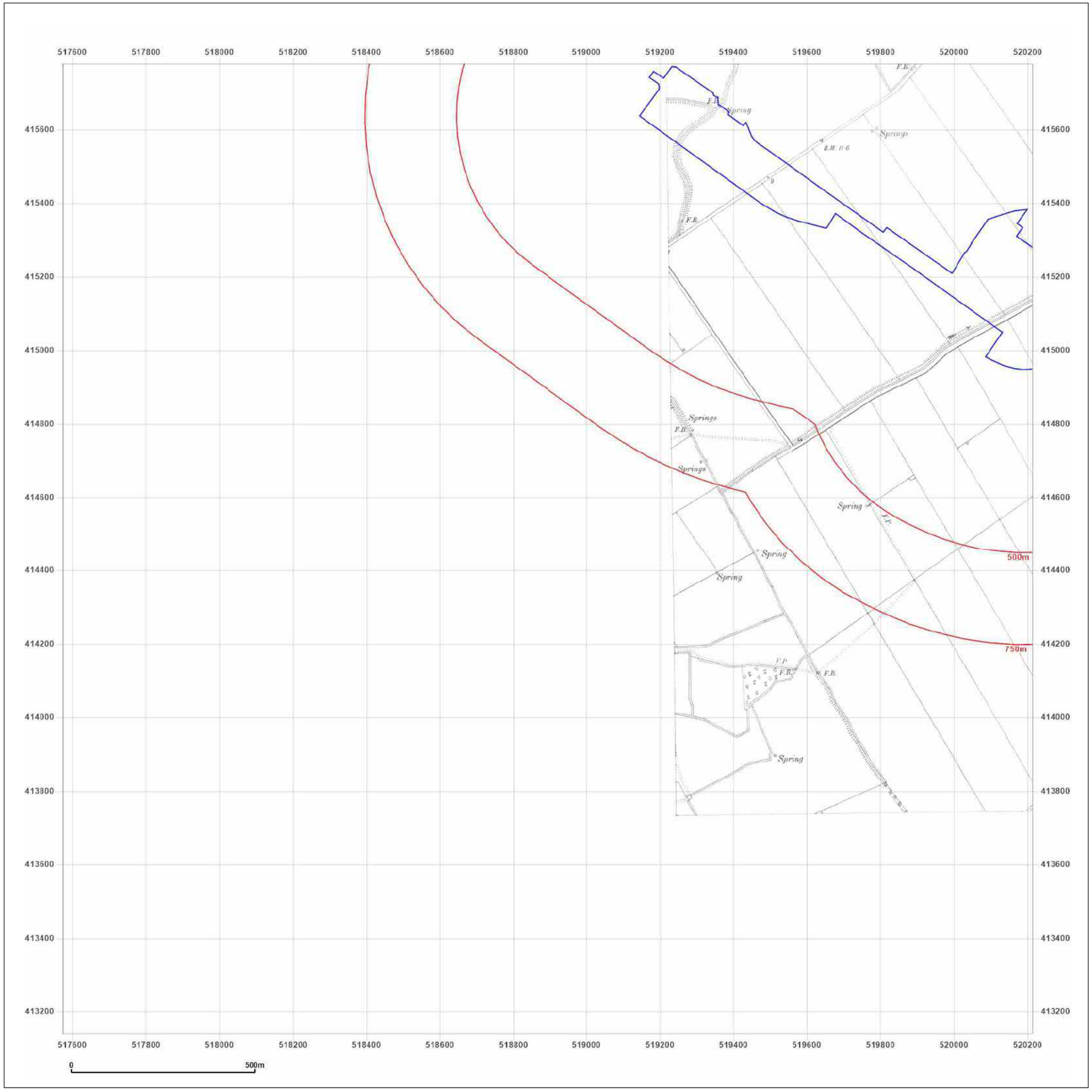
Production date: 08 October 2021

Map legend available at:




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1910**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
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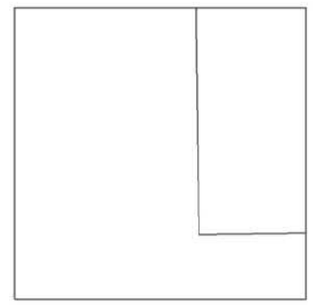

Surveyed 1853
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

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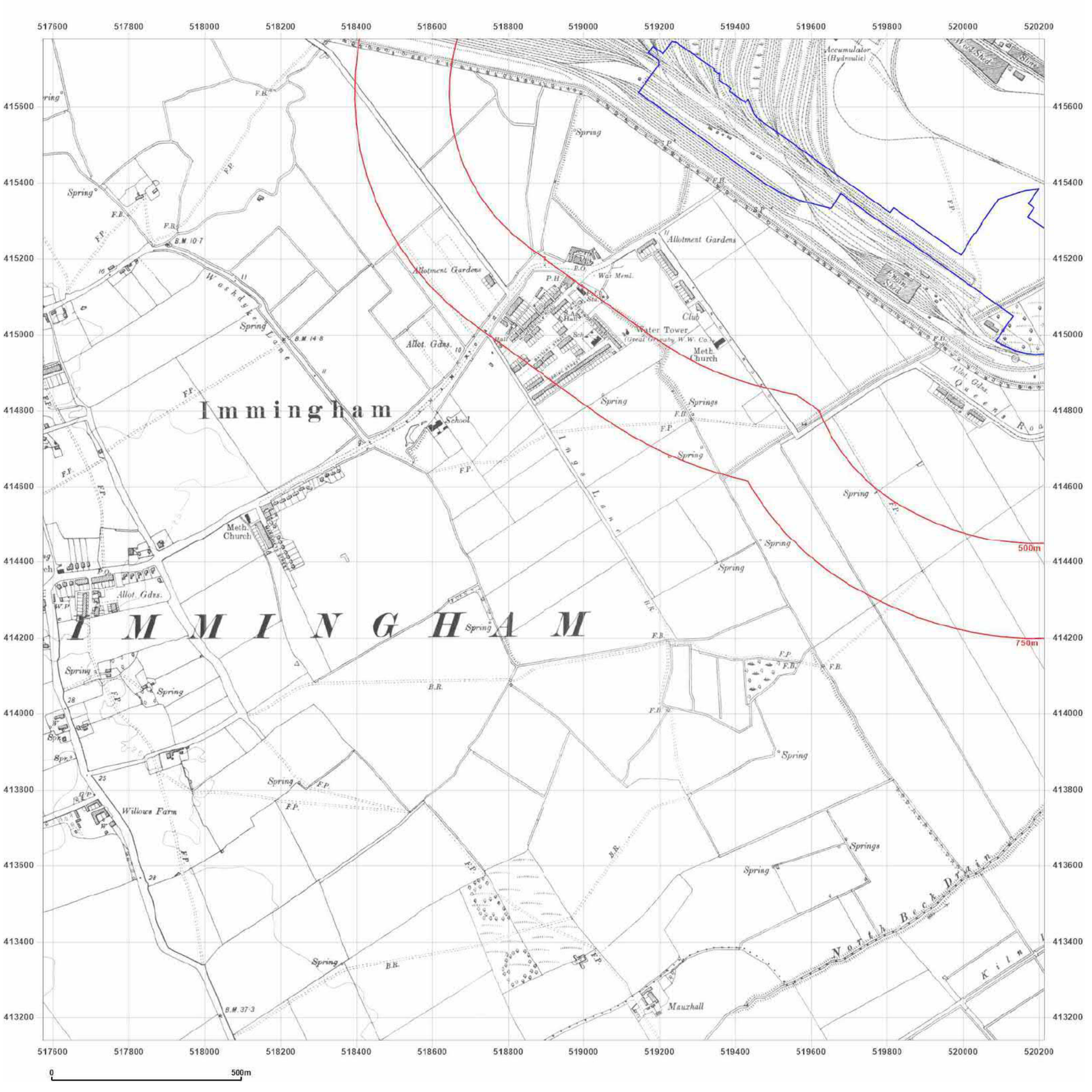
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1930**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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

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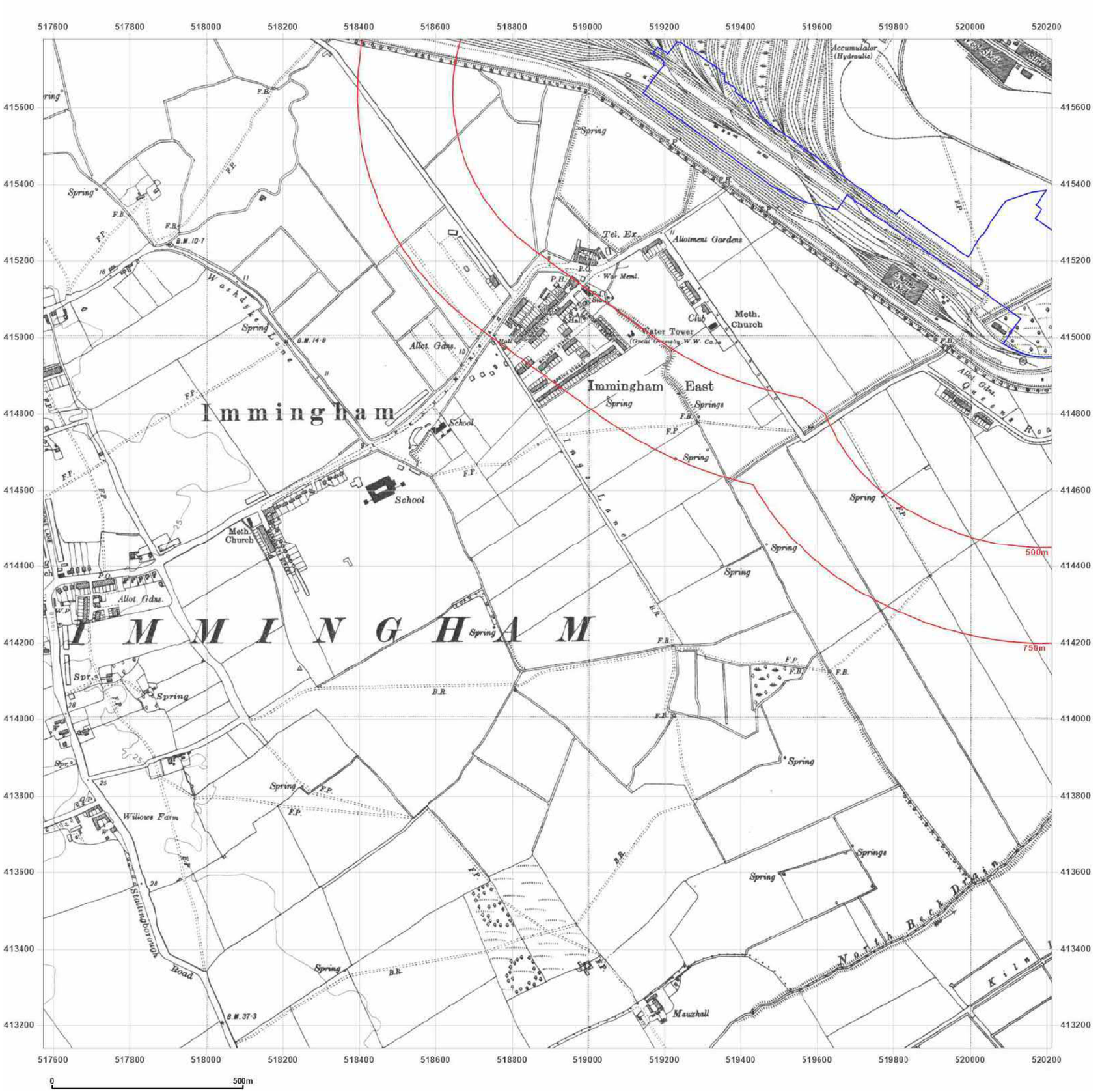
**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1930**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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

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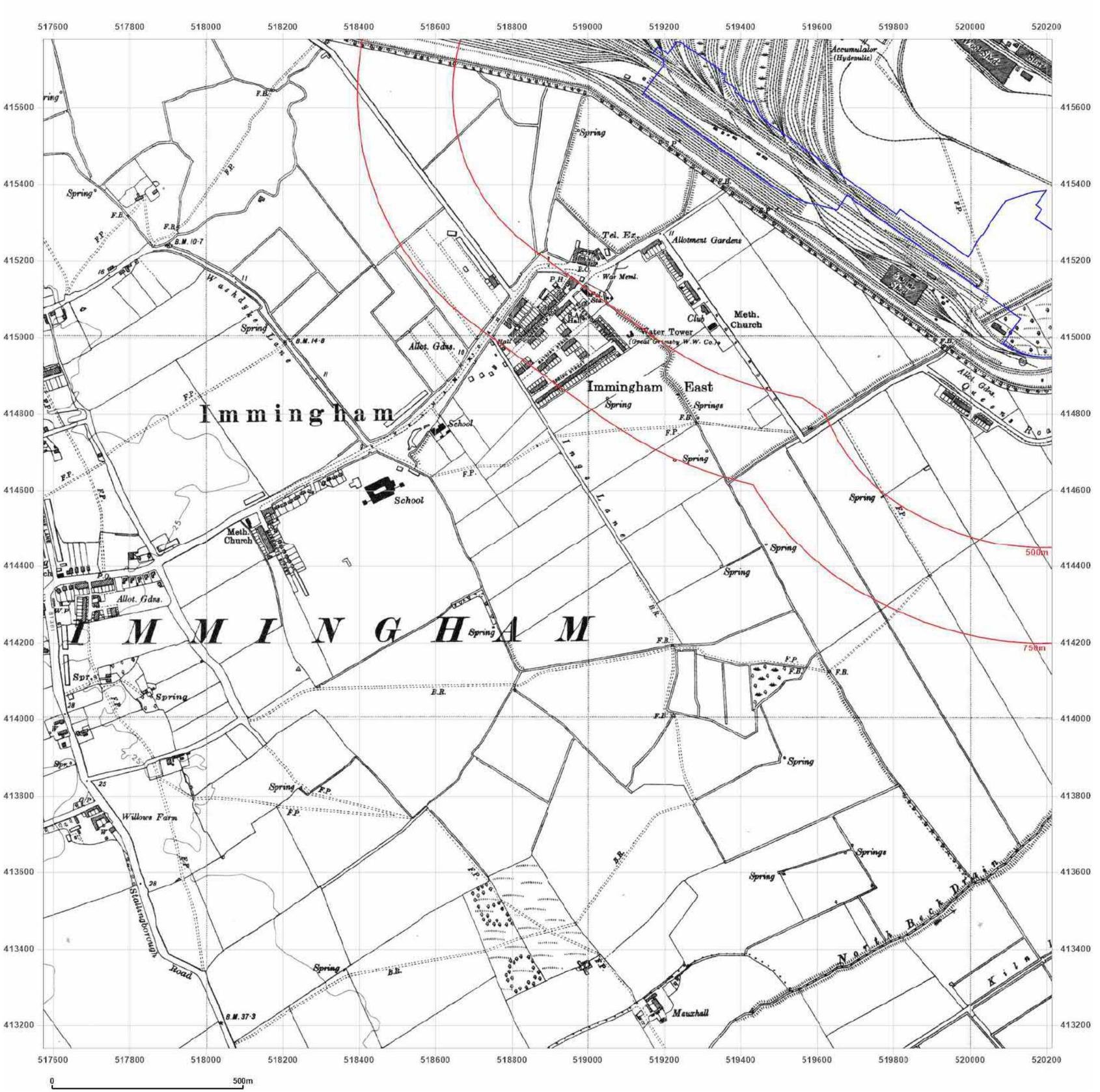
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1938**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N W E S

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

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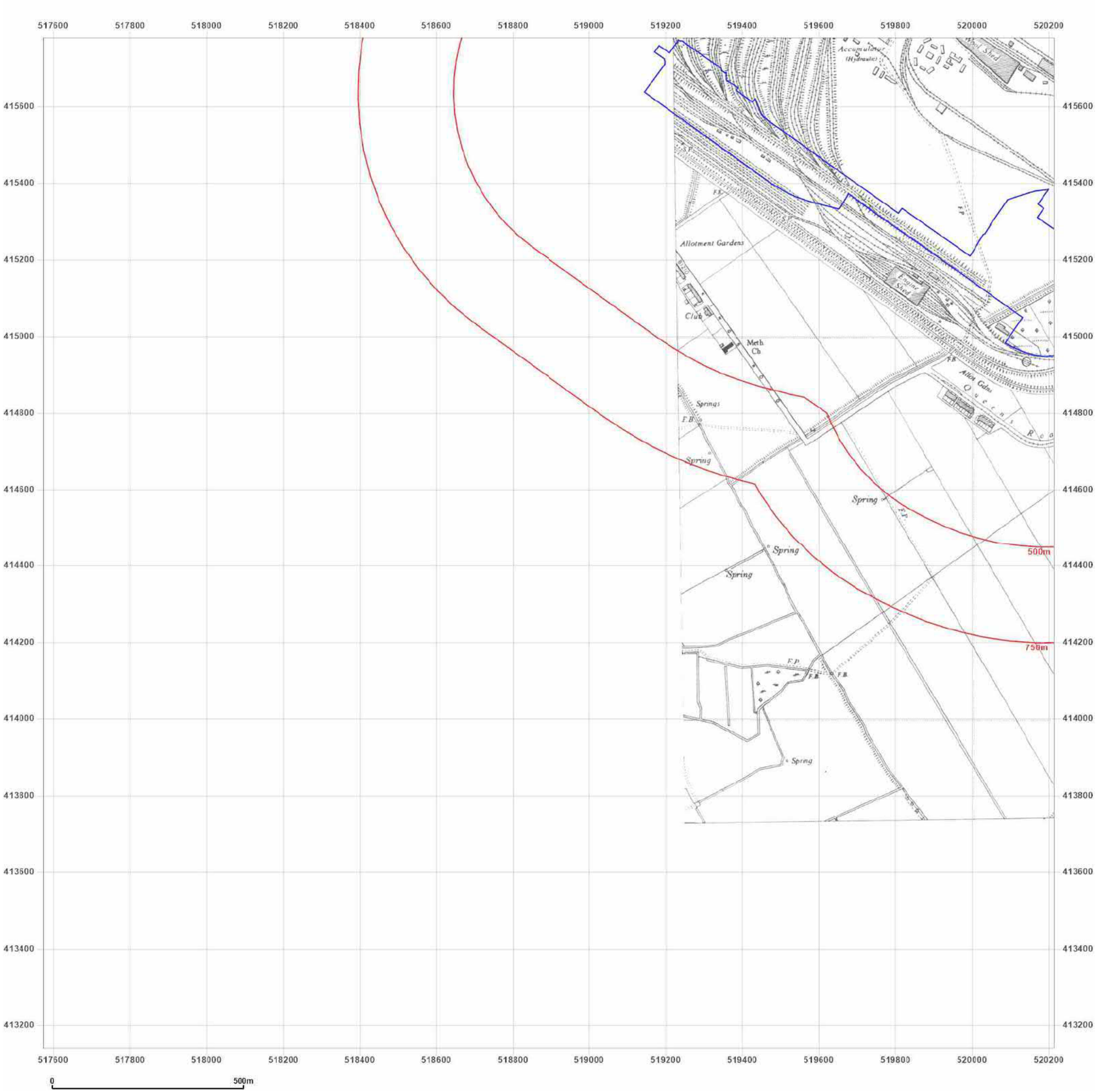


Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1947**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
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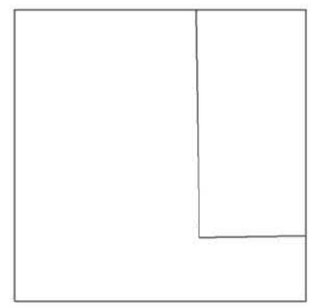

Surveyed 1853
Revised 1947
Edition 1947
Copyright N/A
Levelled N/A

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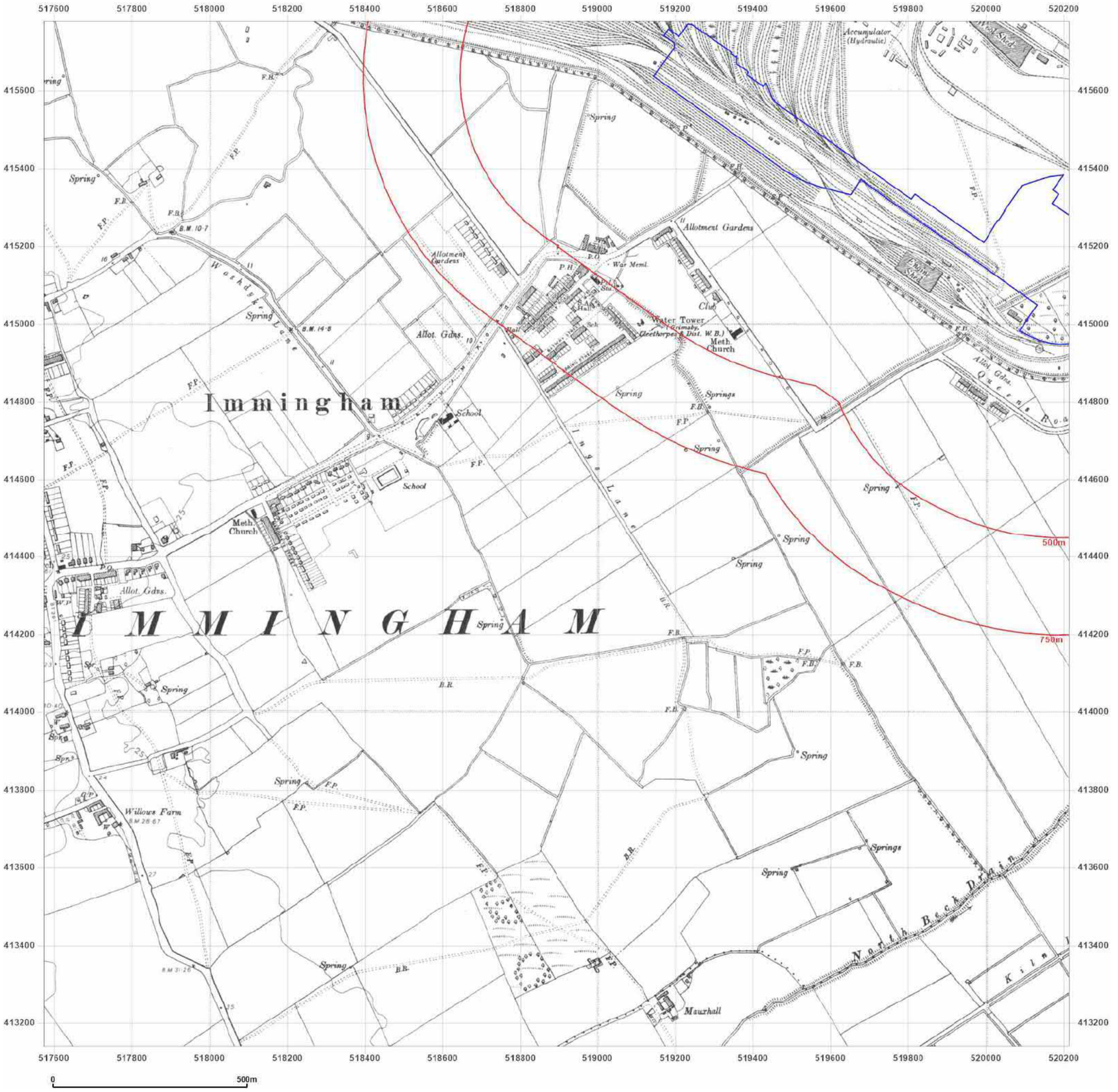


Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** County Series

**Map date:** **1951**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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

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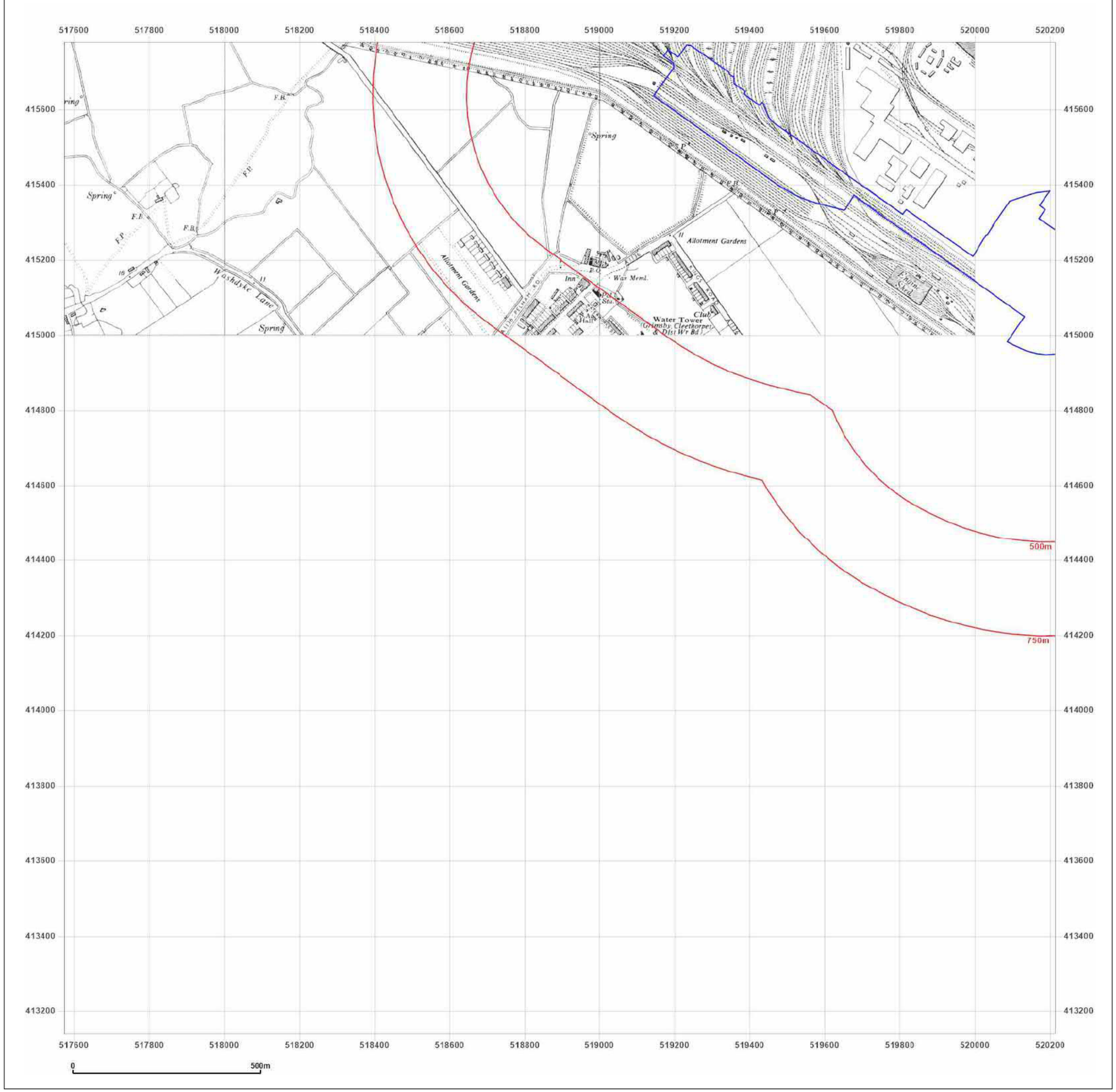


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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

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

N
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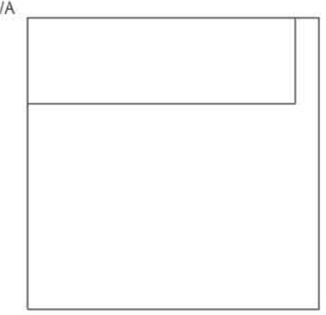
S

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



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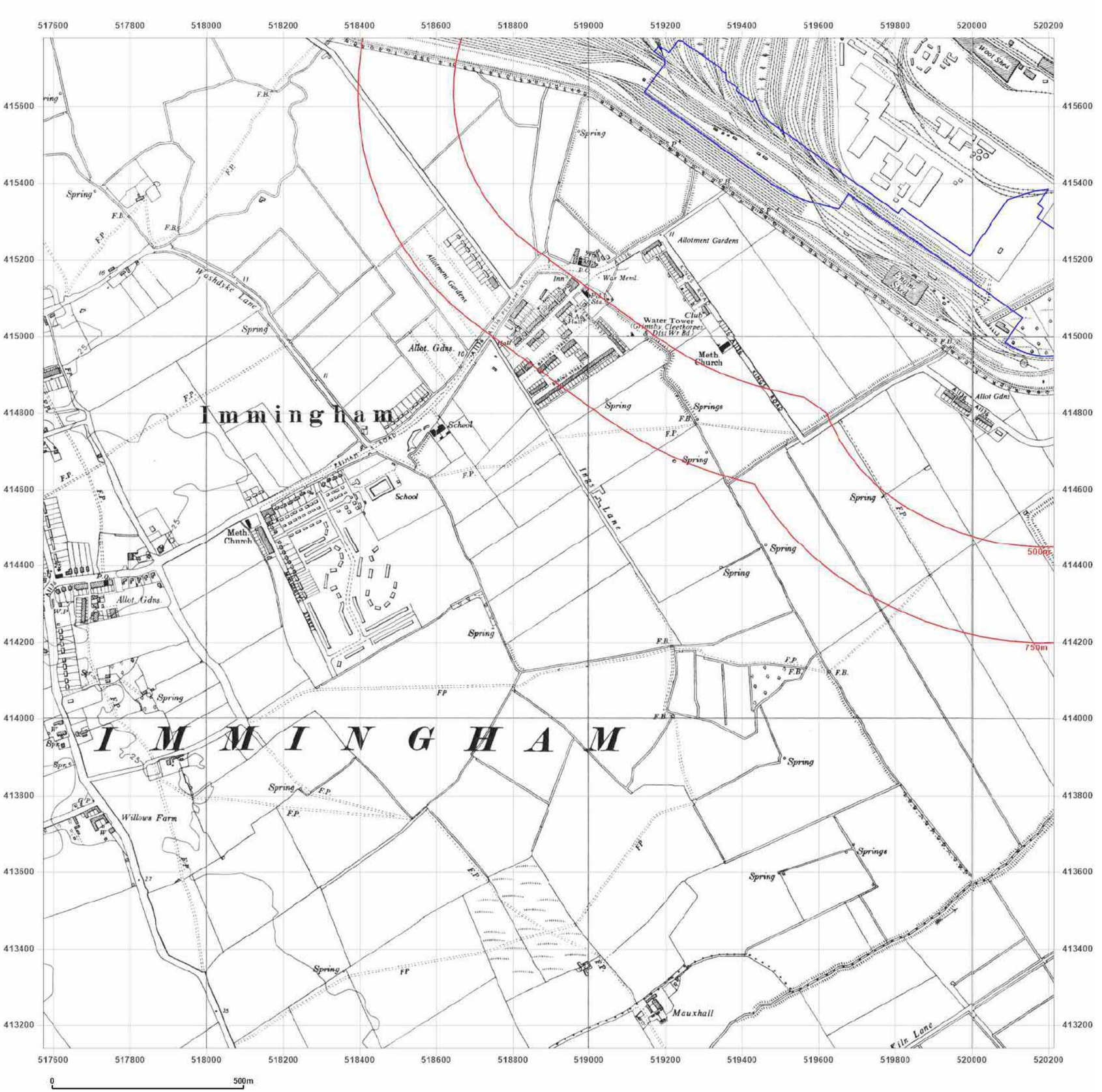


Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** Provisional
**Map date:** **1951-1956**
**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 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed N/A
Revised 1956
Edition 1956
Copyright N/A
Levelled N/A

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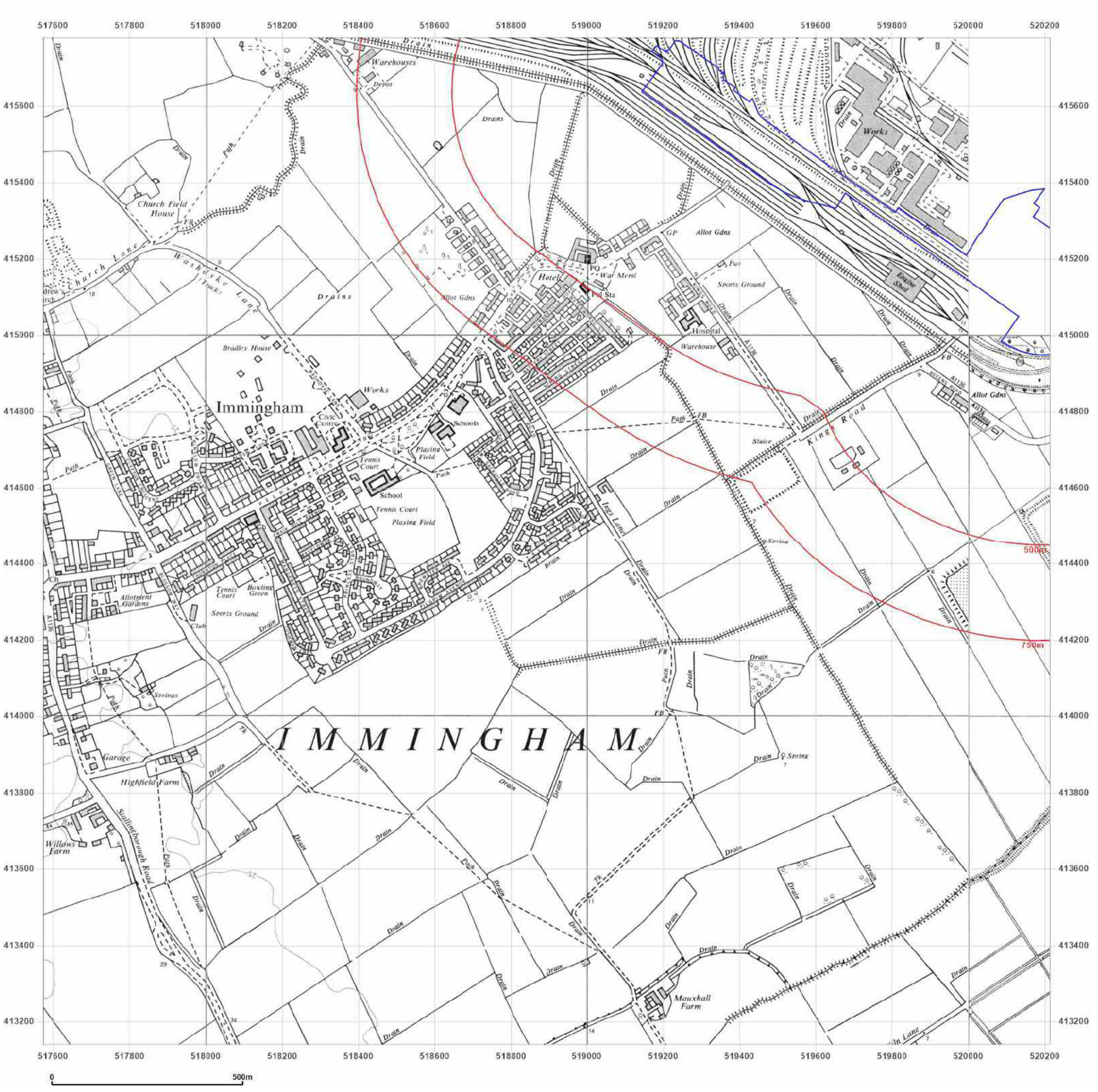
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** Provisional
**Map date:** **1965-1968**
**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

Surveyed N/A
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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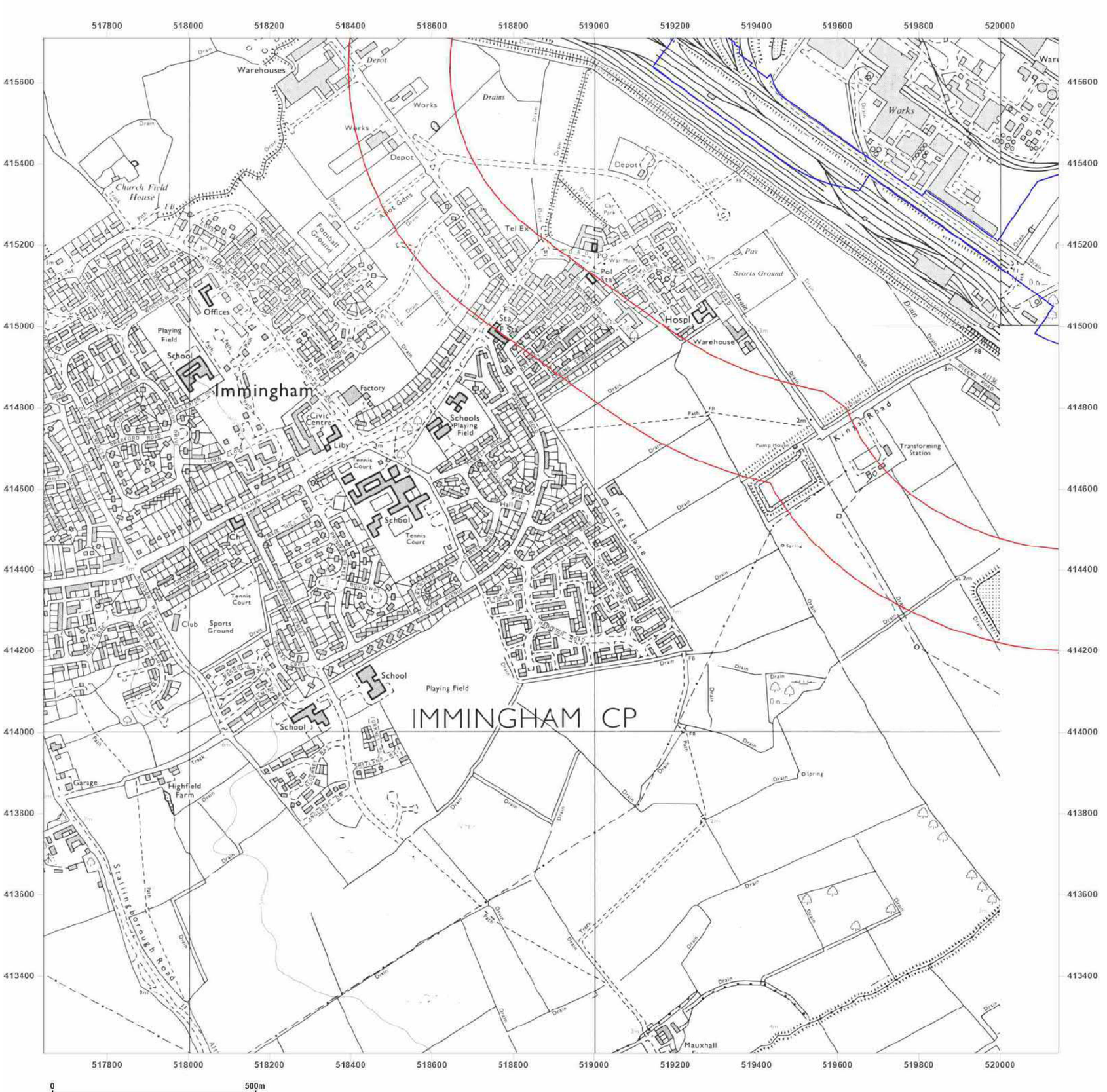
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** National Grid
**Map date:** **1972-1976**
**Scale:** 1:10,000
**Printed at:** 1:10,000

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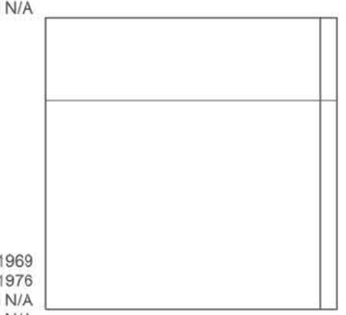
Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1972
Revised 1972
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1969
Revised 1976
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 08 October 2021

**Map legend available at:** [redacted]




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**Site Details:**

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**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** National Grid

**Map date:** **1980-1985**

**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

Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1978
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 08 October 2021

**Map legend available at:** [redacted]


IMMINGHAM CP
Immingham
Recreation Ground
Civic Centre
Liby
Schools
School
Factory
Warehouses
Homestead Park
Pelham Industrial Estate
Manby Hall Business Park
Football Ground
Tel Ex
PO
Fol Sta
Amb Sta
Fire Sta
Car Park
Halls
Depots
Depot
Works
Warehouse
Recreation Ground
Reed Meer Centre
Highfield Farm
Willows Farm
Mauxhall Farm
Churchfield Manor
Drain
North Beck Drain
A1173
PELHAM ROAD
KINGS ROAD
QUEENS RD
GRESLEY WAY
MIDDLEPLATT ROAD
HOLLAND ROAD
HAWTHORN AVENUE
CHESTNUT AVENUE
WATERWORKS ST
PRATLEY STREET
SPRING STREET
NORTH ST
PARK CLOSE
BEECHWOOD AVE
WOODLANDS AVENUE
OAKLANDS AVENUE
ASH TREE CL
CEDAR DRIVE
COPSE CL
MAPLE RD
WASDYKE LANE
WINSTON DRIVE
HAWLEY DRIVE
WESTON GROVE
STANBURY LANE
CHURCH LANE
AINSWORTH ROAD
ALDEN CL
ALDEN CLOSE
BRADFORD ROAD
ALLETSON DR
WINLAKE DRIVE
CLIFTON CRESCENT
ROBERT CL
ROBERT CLOSE
Green Lane
SHILA CREST
PELHAM ROAD
Car Park
Hall
CRAIG HILL AVE
MAYFLOWER AV
PILGRIM AVENUE
ROUNDWAY
THORNTON PLACE
HIGHFIELD AVE
HUNT BAR
RAMSEY WAY
HIGHLAND VIEW
GRAN COURT
JAMES WAY
KERSHOPEN CT
PERTH WY
MARGARET STREET
GUERNSEY CRES
MAGNOLIA RISE
JASMINE WAY
GUERNSEY GR WAY
ALDERNEY WAY
ANGLESEY DRIVE
MULL WAY
SHETLAND WY
ORKNEY WY
FAIRISLE
SUNNINGDALE RD
SURREY ROAD
NOVA LYE CR
CARVER ROAD
SAXILBY ROAD
SAXILBY CRES
SAXILBY STREET
SAXILBY AVE




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** National Grid

**Map date:** **2010**

**Scale:** 1:10,000

**Printed at:** 1:10,000

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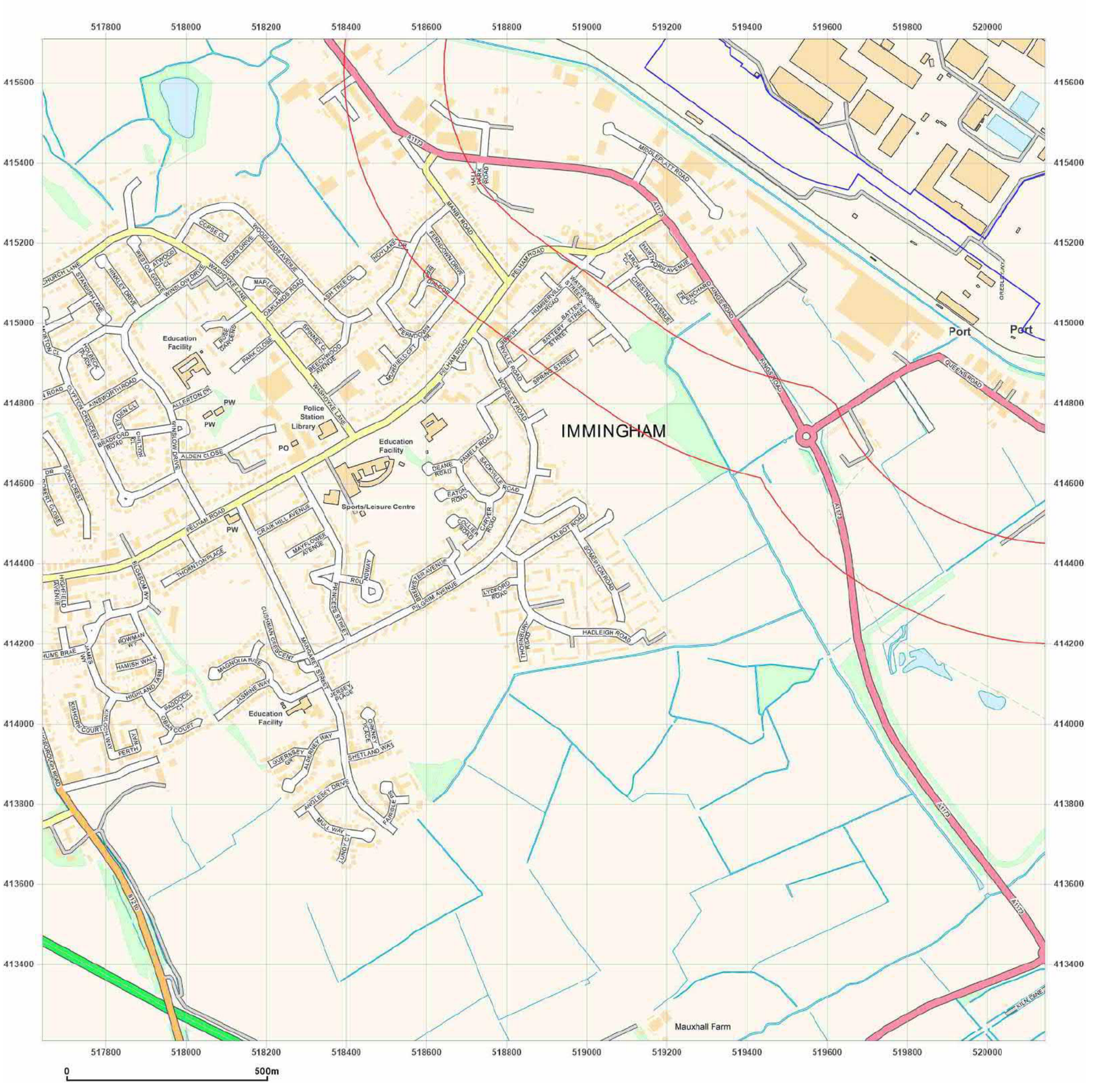
Map legend available at:




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_1
**Grid Ref:** 518893, 414459

**Map Name:** National Grid
**Map date:** 2021
**Scale:** 1:10,000
**Printed at:** 1:10,000

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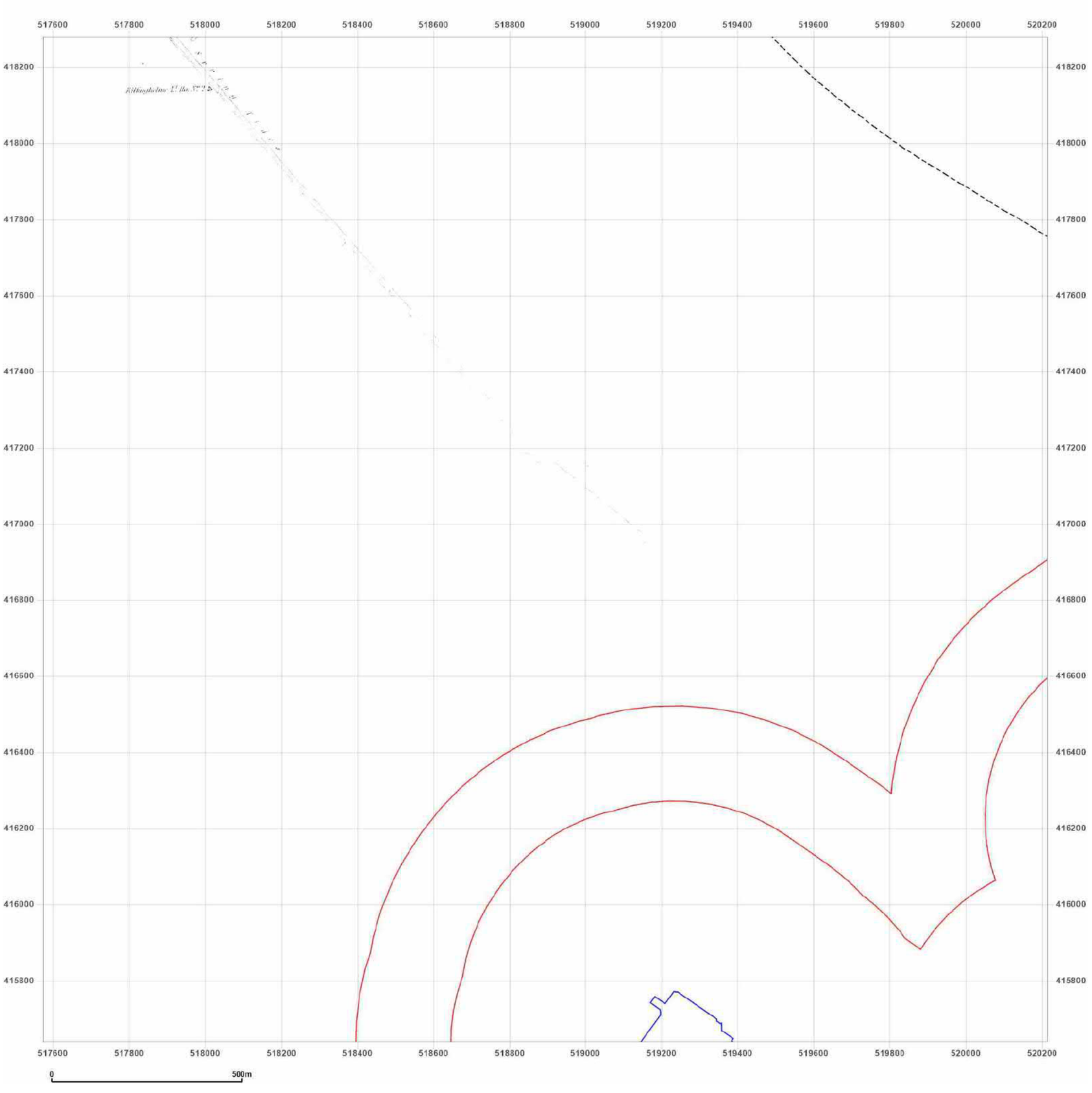
Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

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

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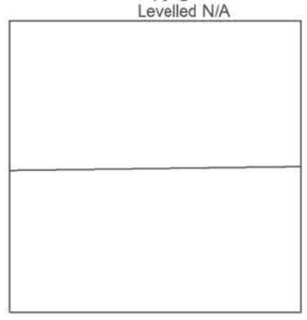
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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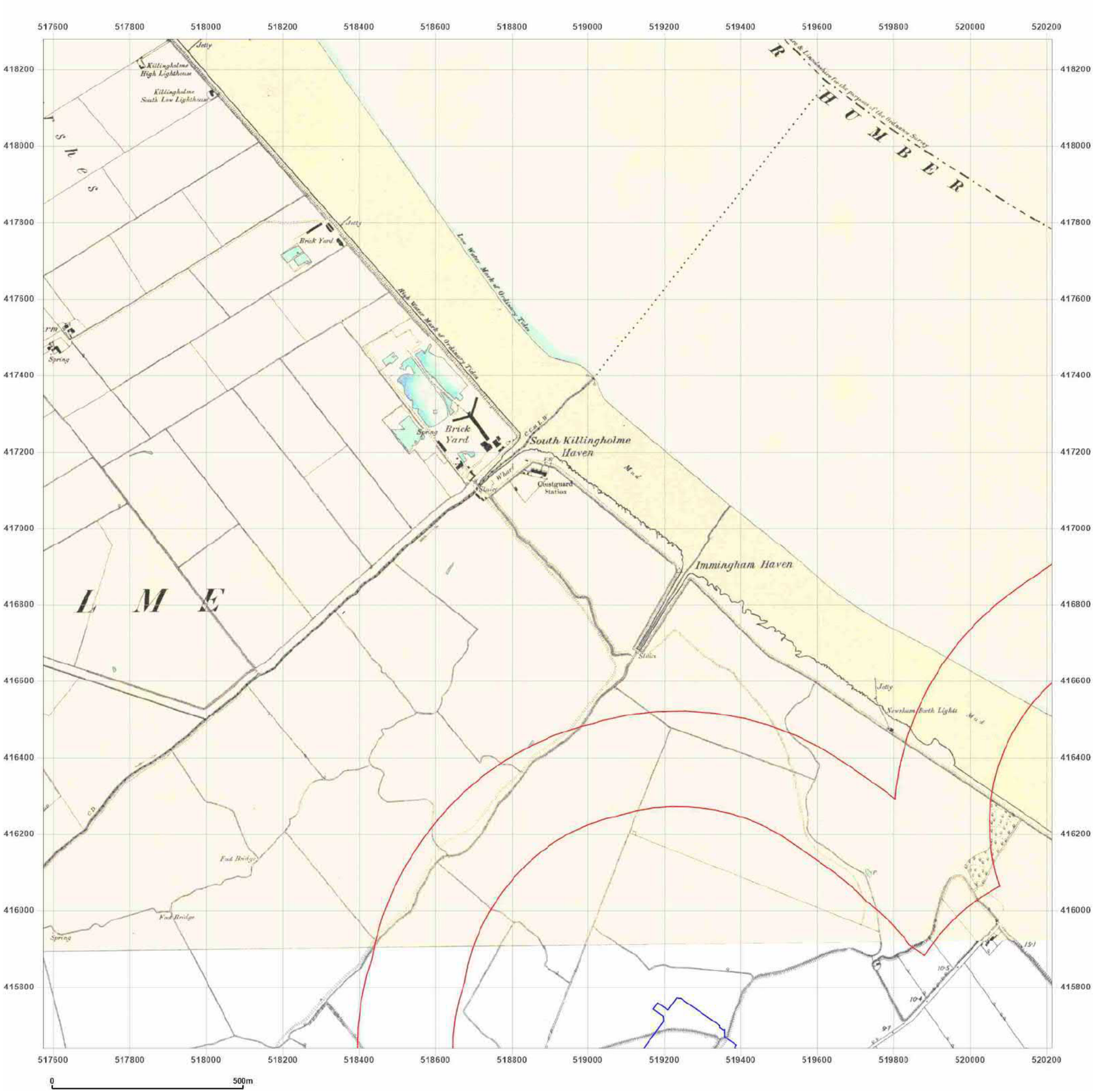
**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1886-1887**

**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 1886~~
Edition N/A
Copyright N/A
Levelled N/A

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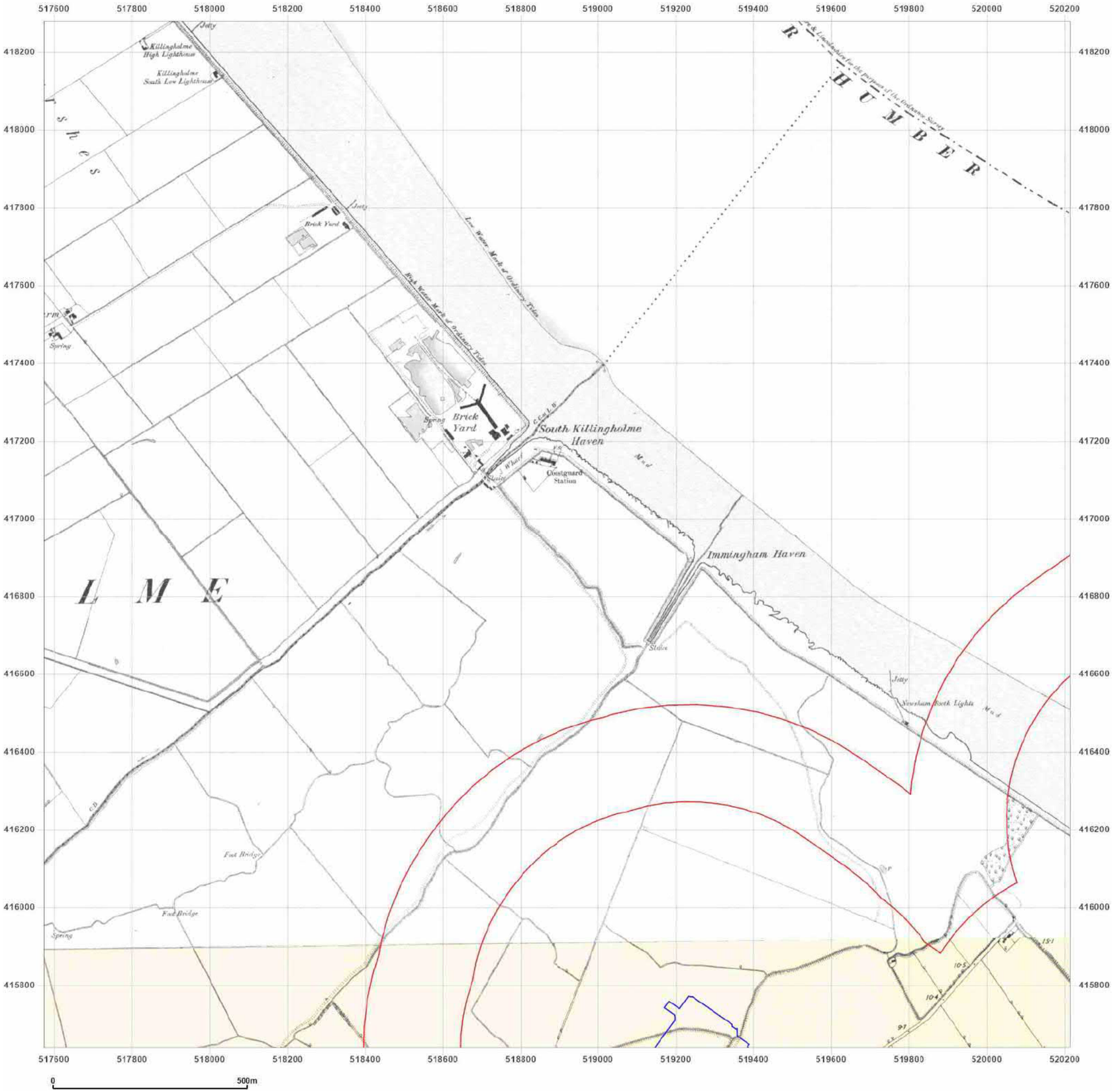
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1886-1887**

**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 N/A~~
Edition N/A
Copyright N/A
Levelled N/A

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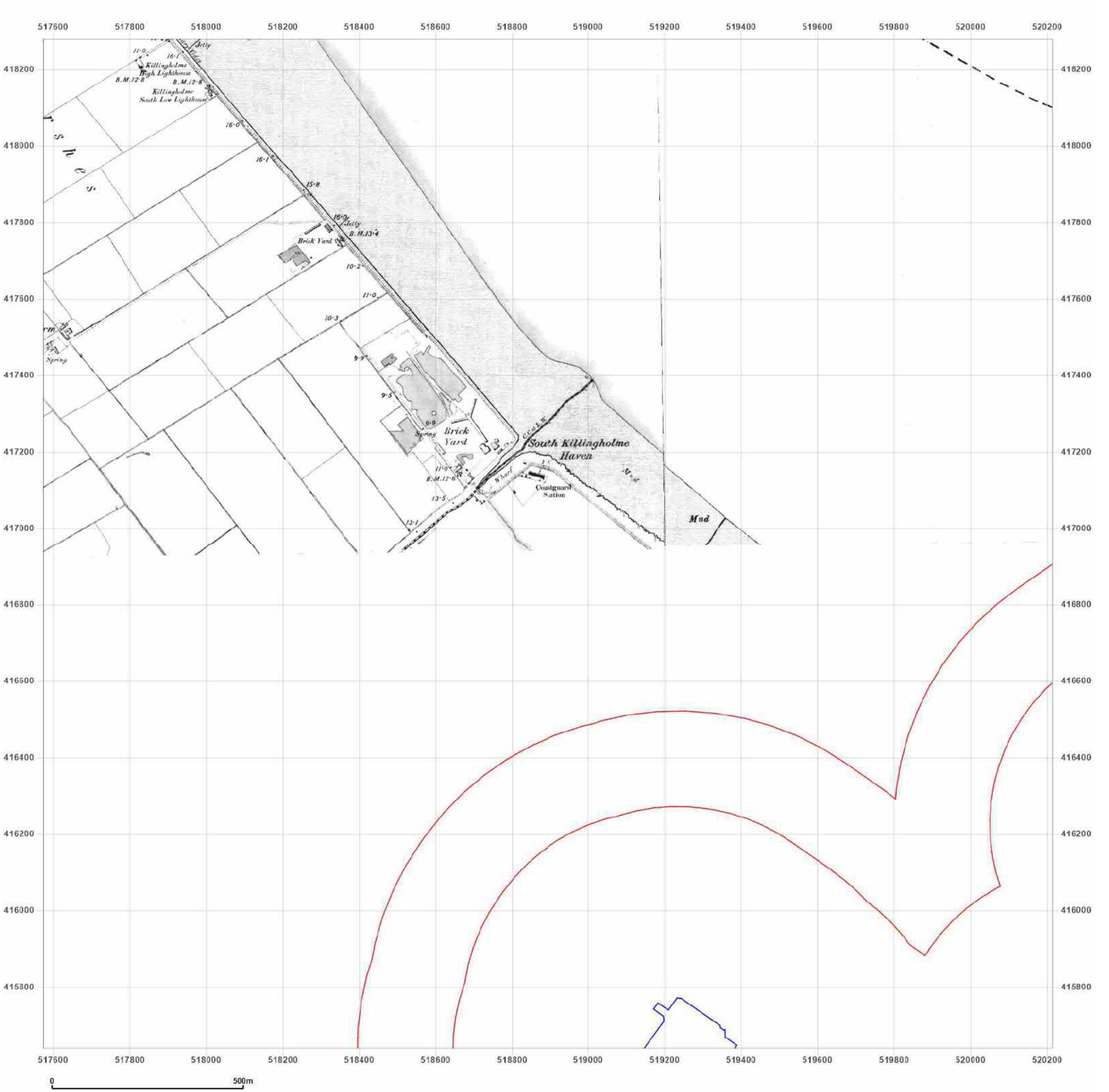
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1886-1888**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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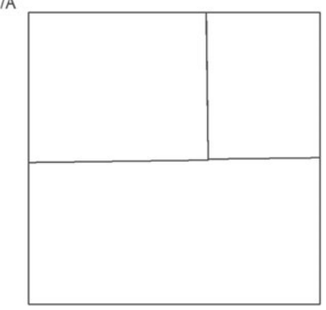
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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



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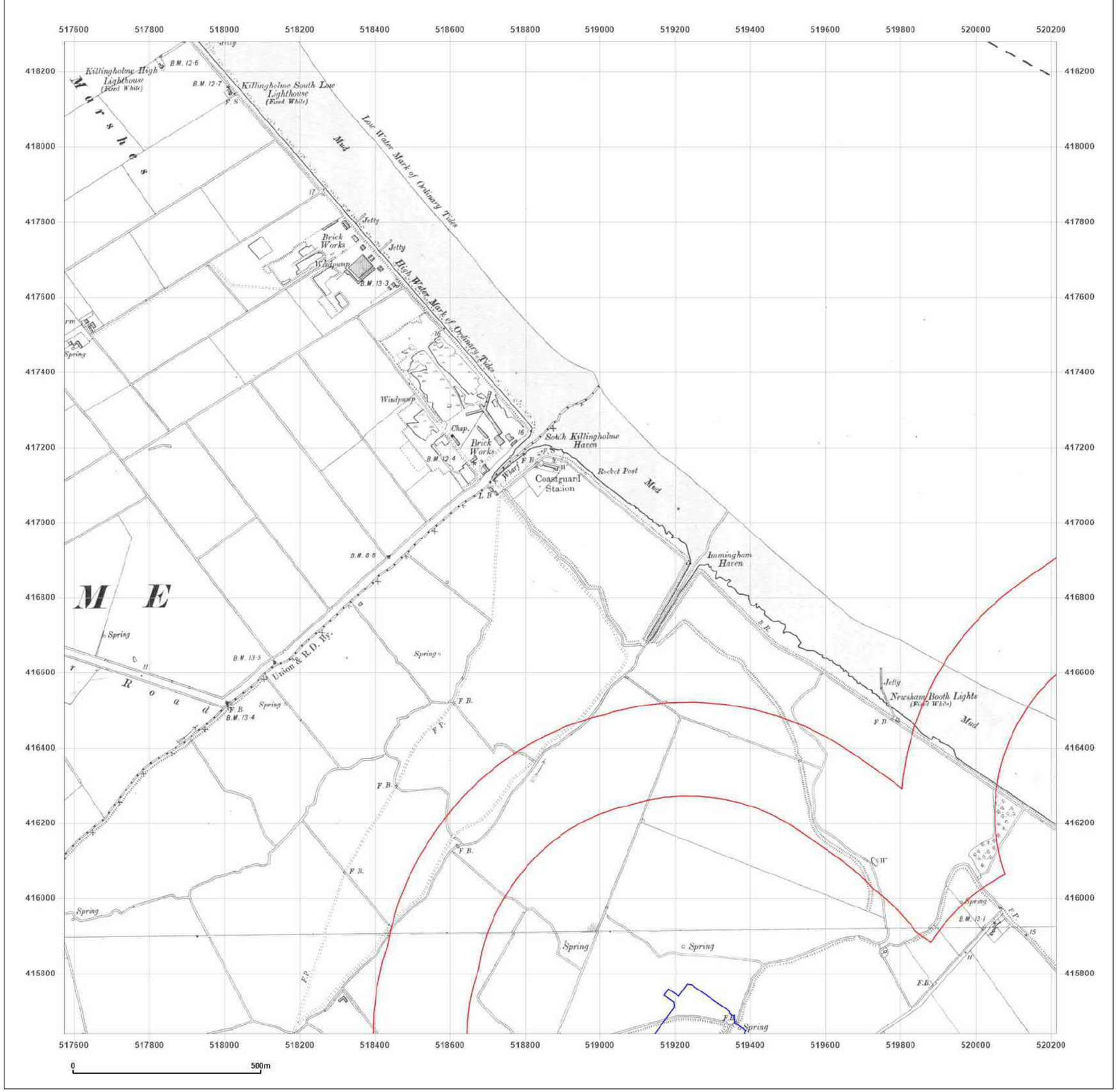
Production date: 08 October 2021

**Map legend available at:**




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1905-1906**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
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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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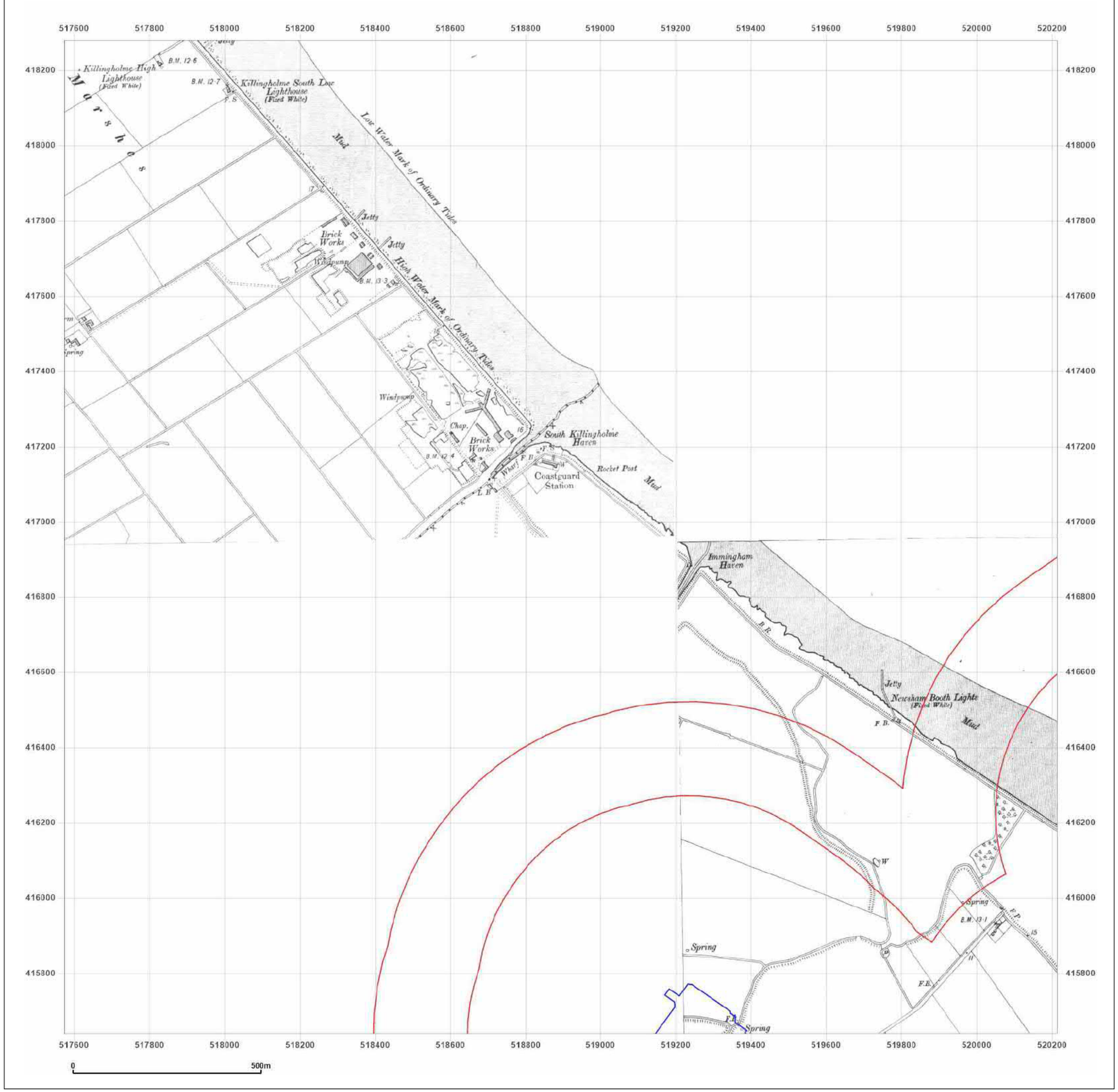
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1906-1910**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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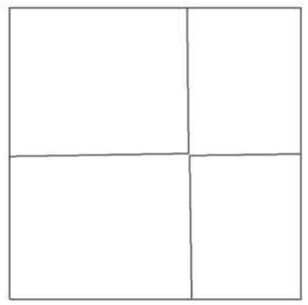
Surveyed 1853
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A



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

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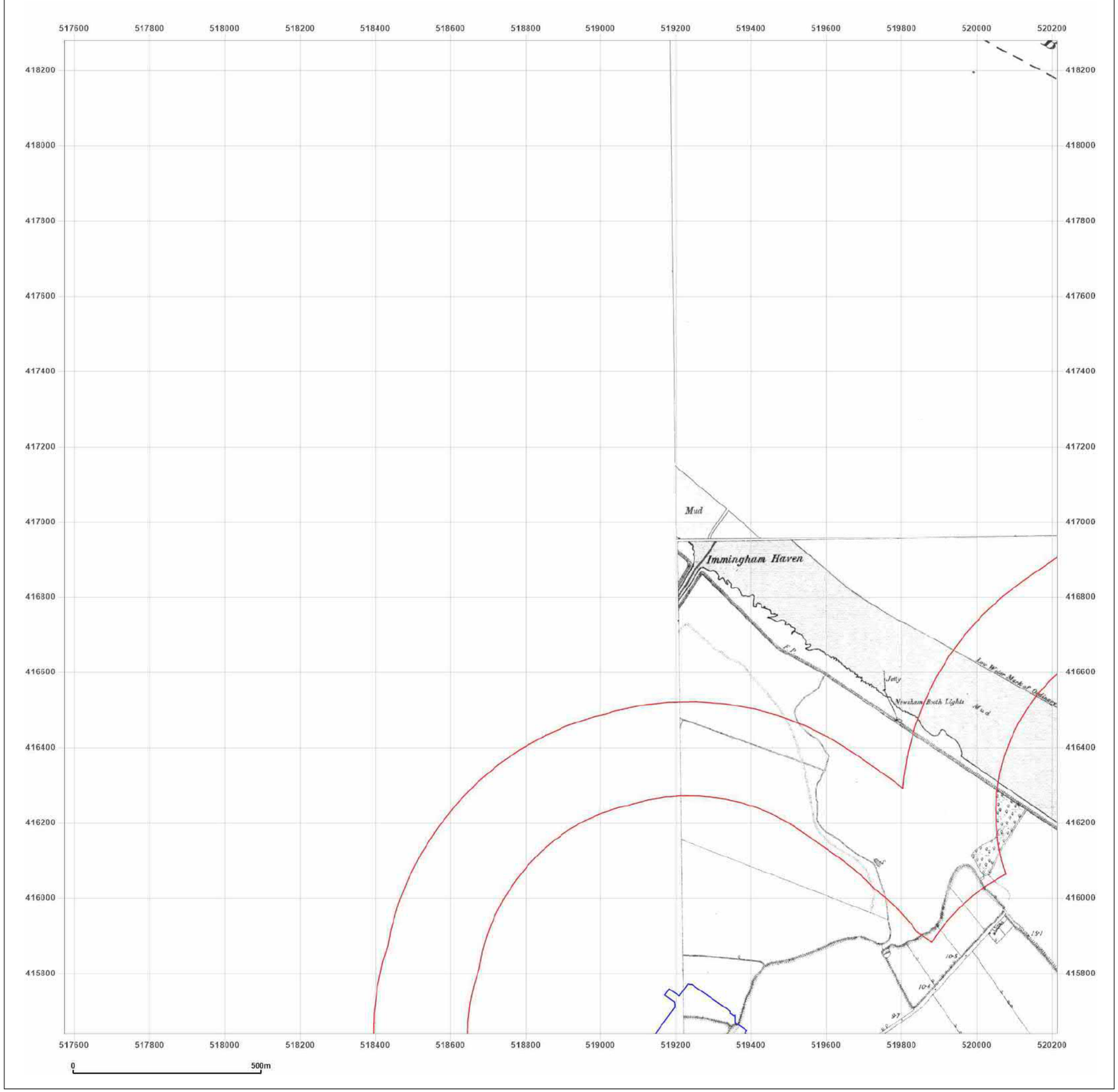
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series
**Map date:** **1907-1910**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
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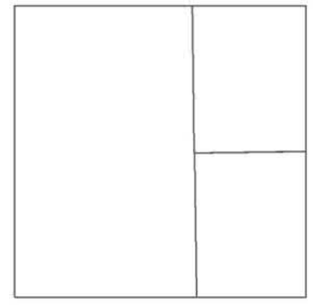

Surveyed 1853
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A

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

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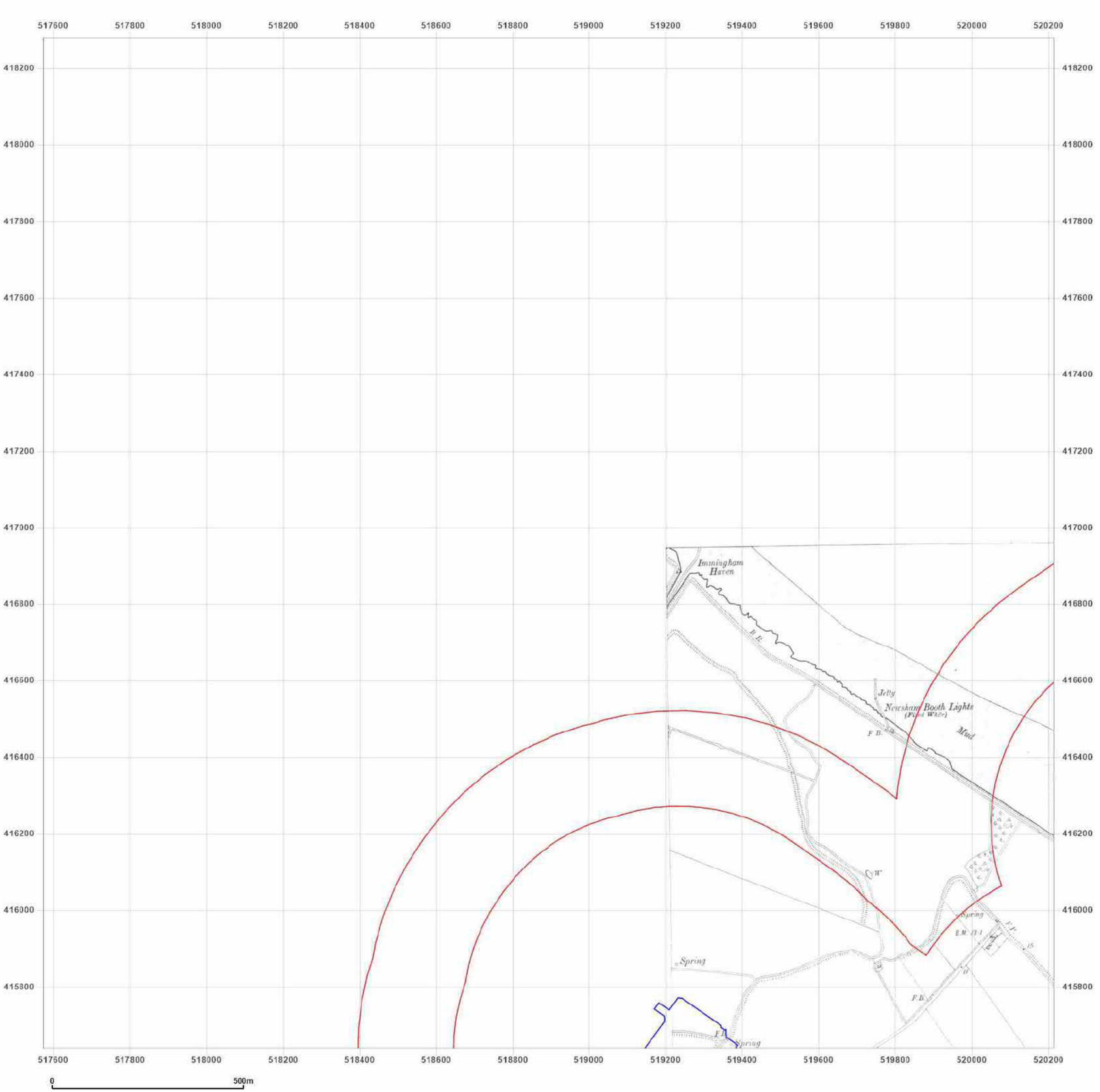
Production date: 08 October 2021

**Map legend available at:** [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1910**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
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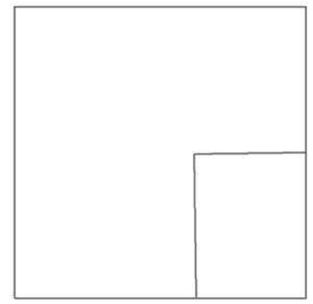

Surveyed 1853
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

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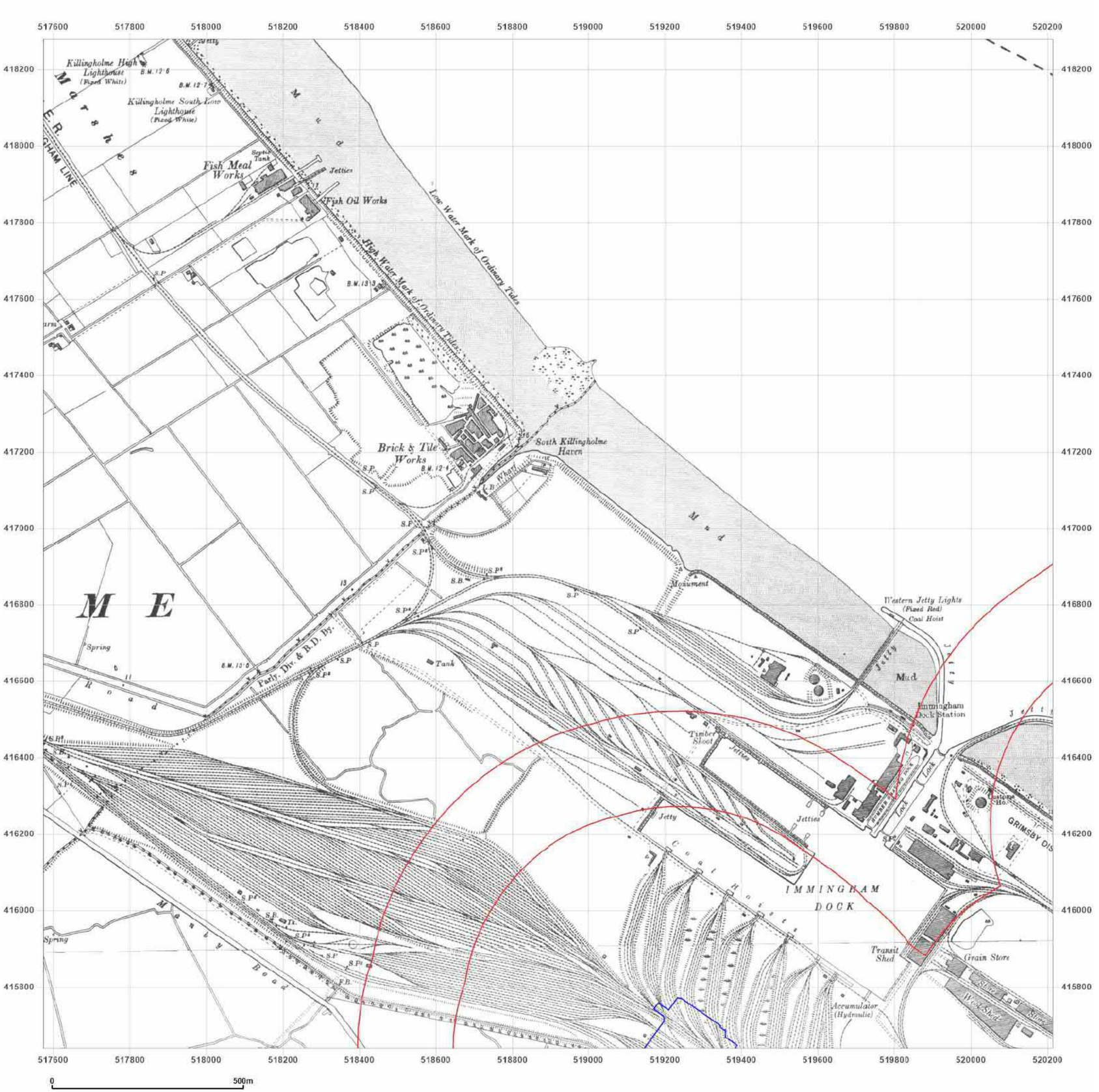
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1930**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
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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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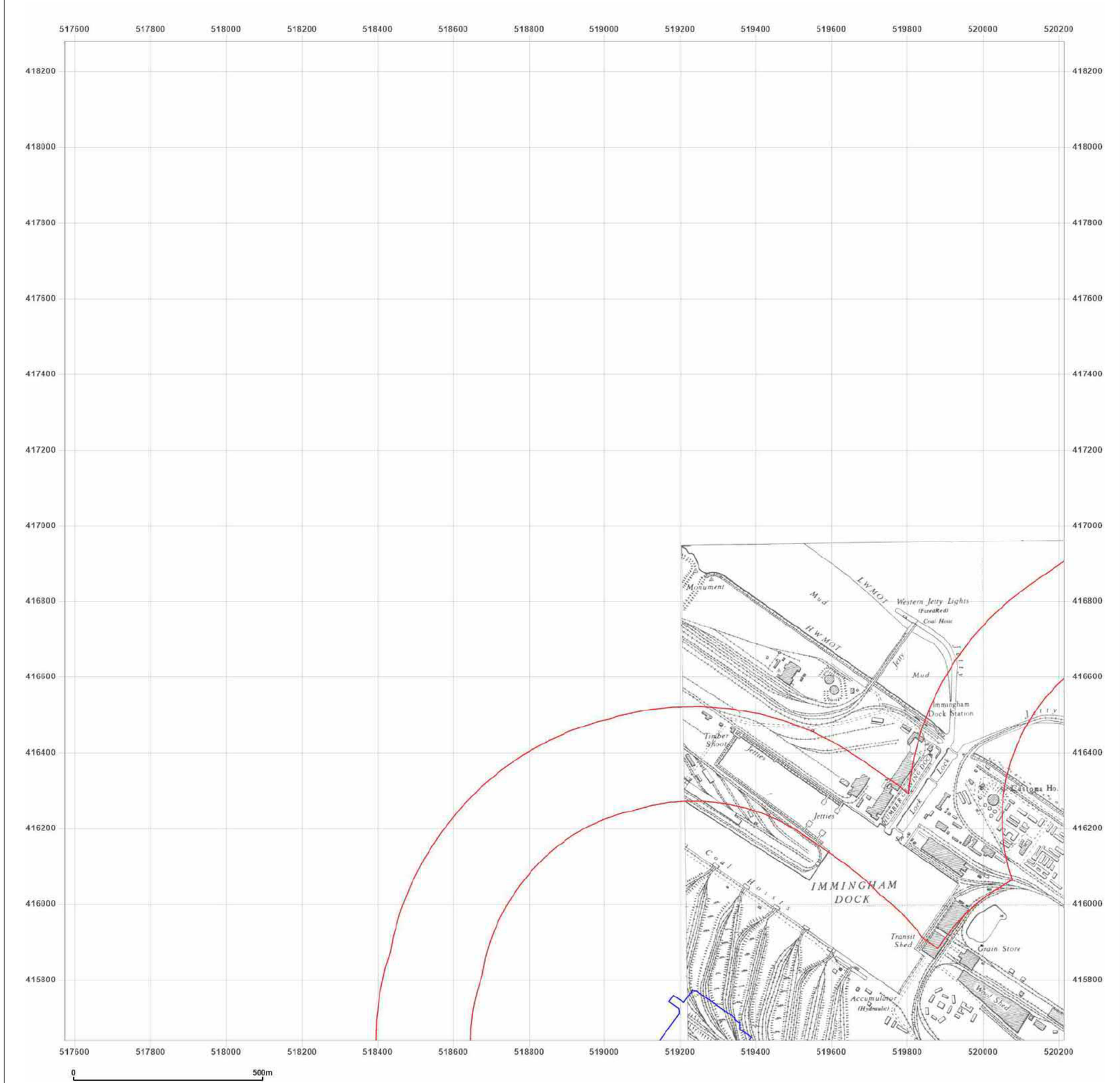
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series
**Map date:** **1947**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
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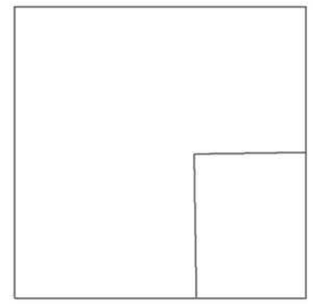

Surveyed 1853
Revised 1947
Edition 1947
Copyright N/A
Levelled N/A

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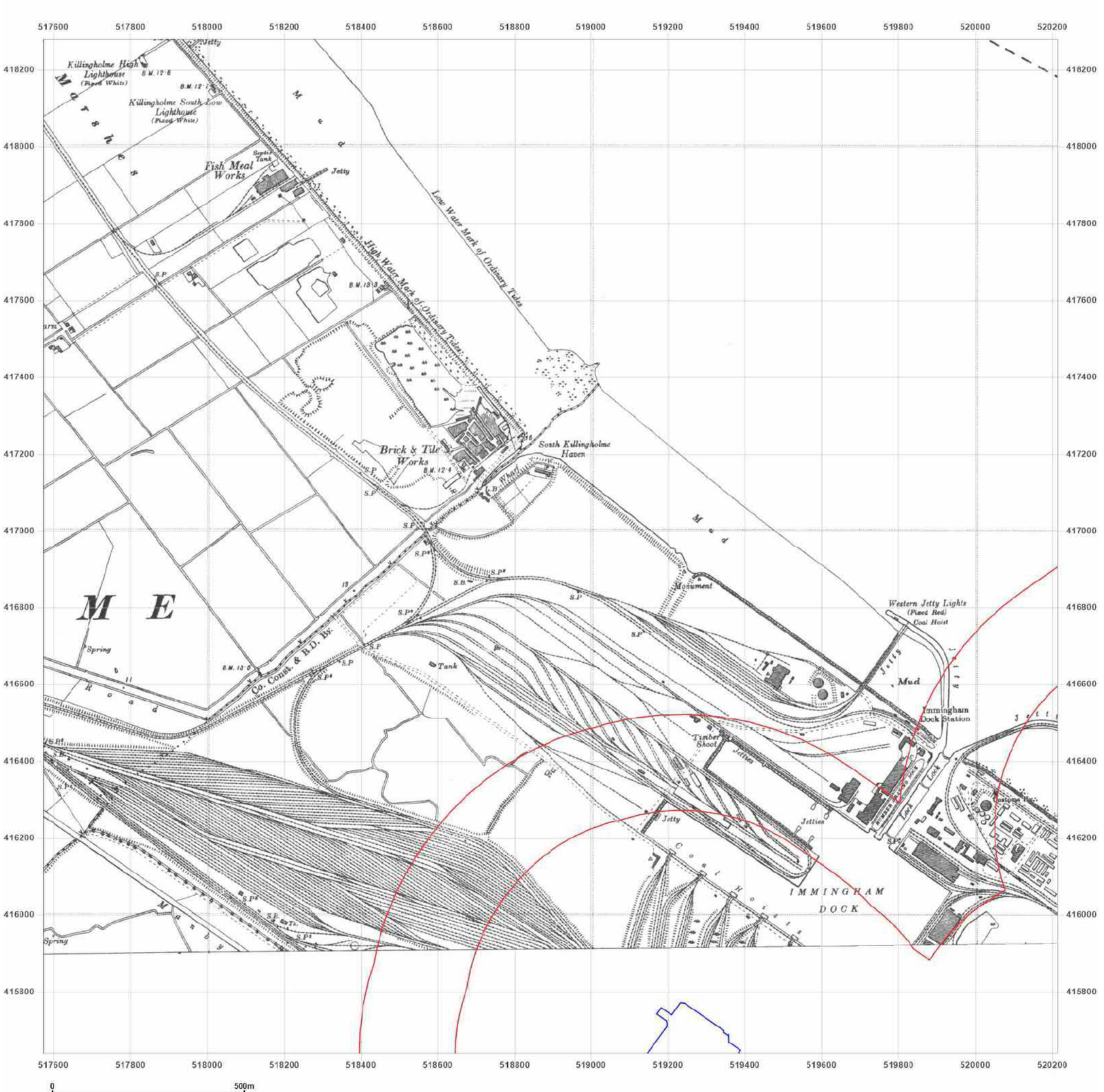
Map legend available at:

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1947**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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

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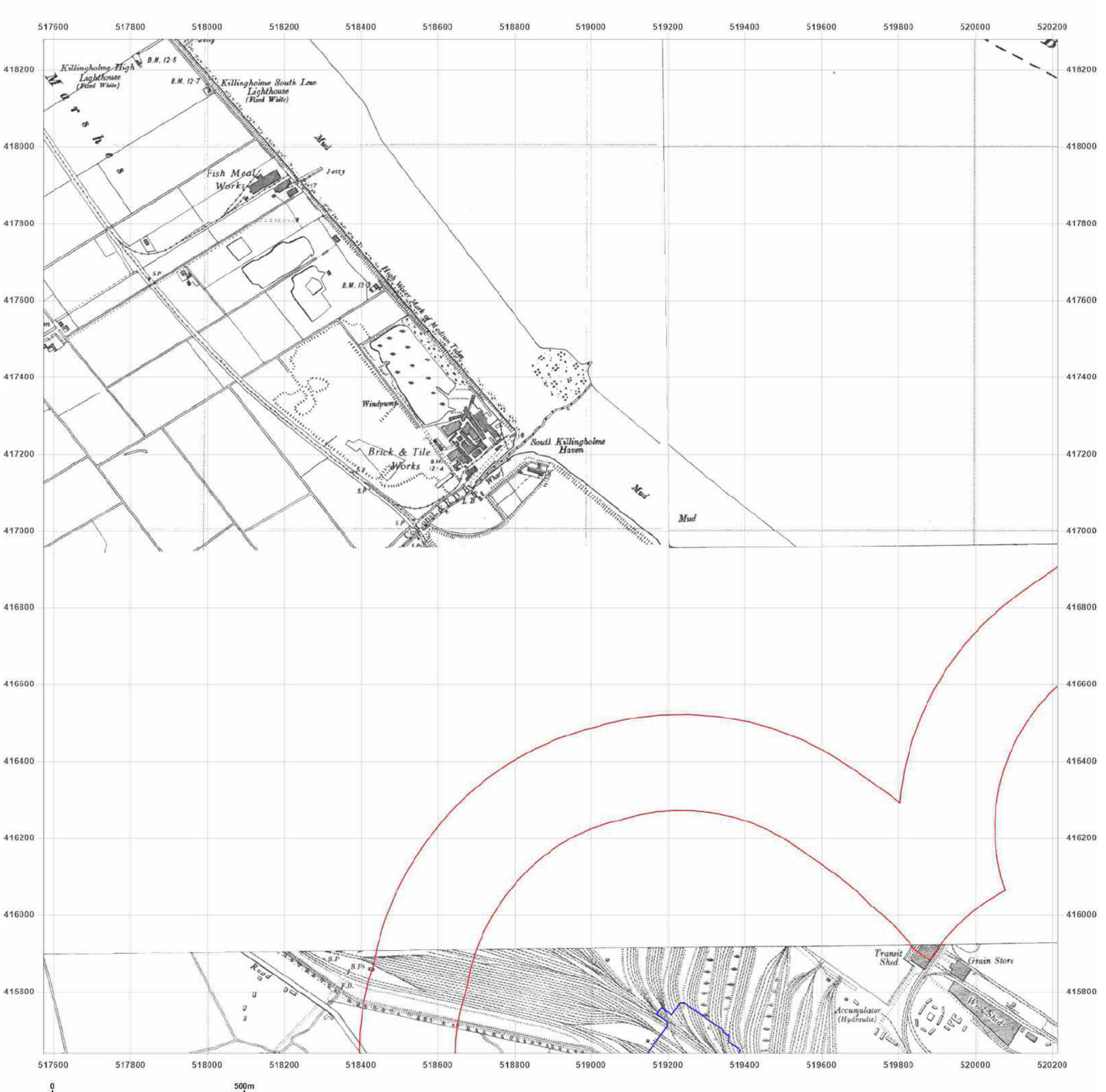
Production date: 08 October 2021

**Map legend available at:** [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** County Series

**Map date:** **1947-1951**

**Scale:** 1:10,560

**Printed at:** 1:10,560

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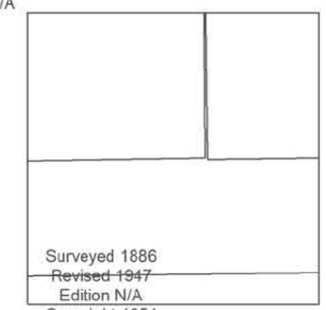
Surveyed 1853
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

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



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

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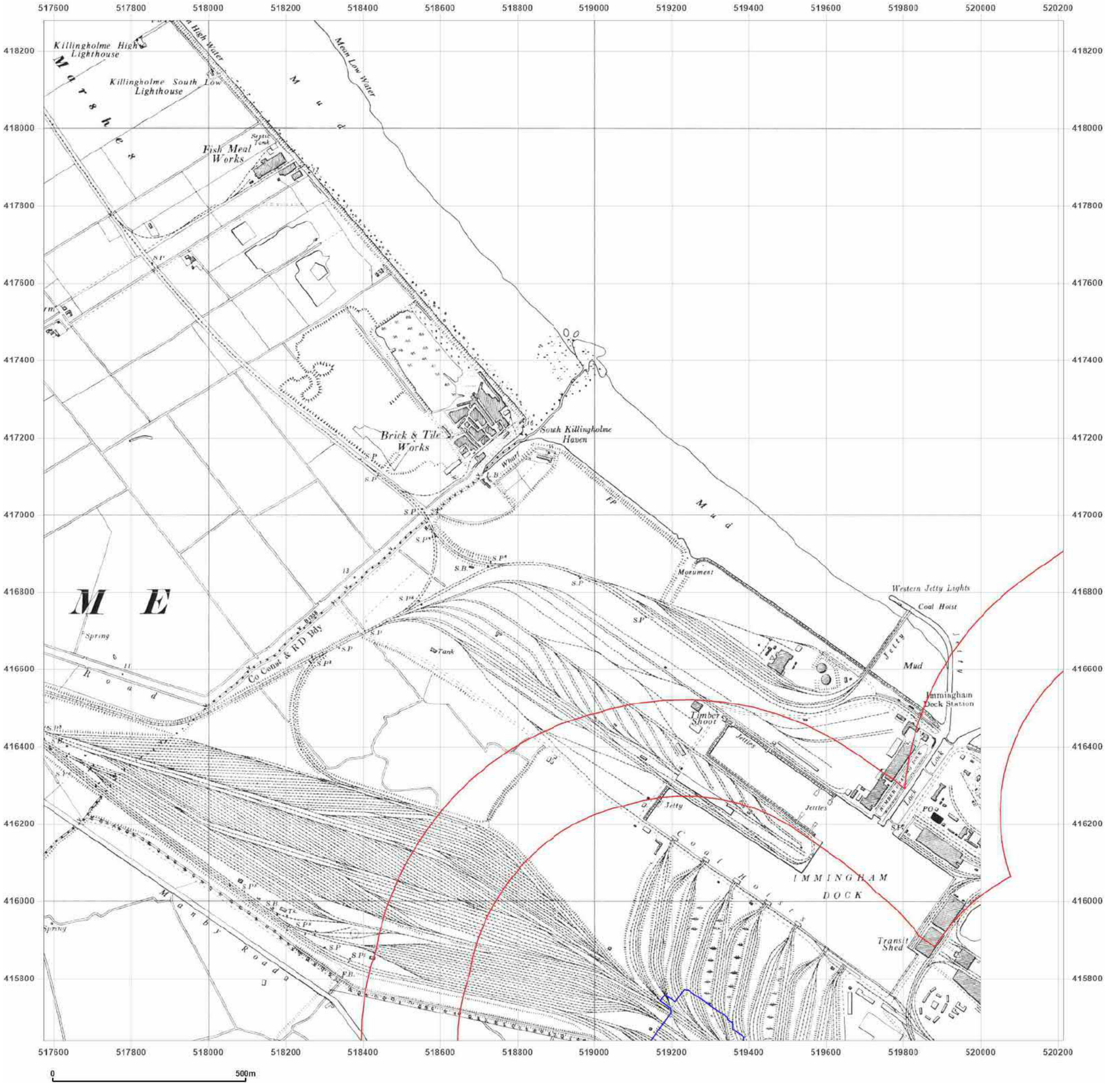
Production date: 08 October 2021

Map legend available at: [redacted]f

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

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

N
W E
S

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

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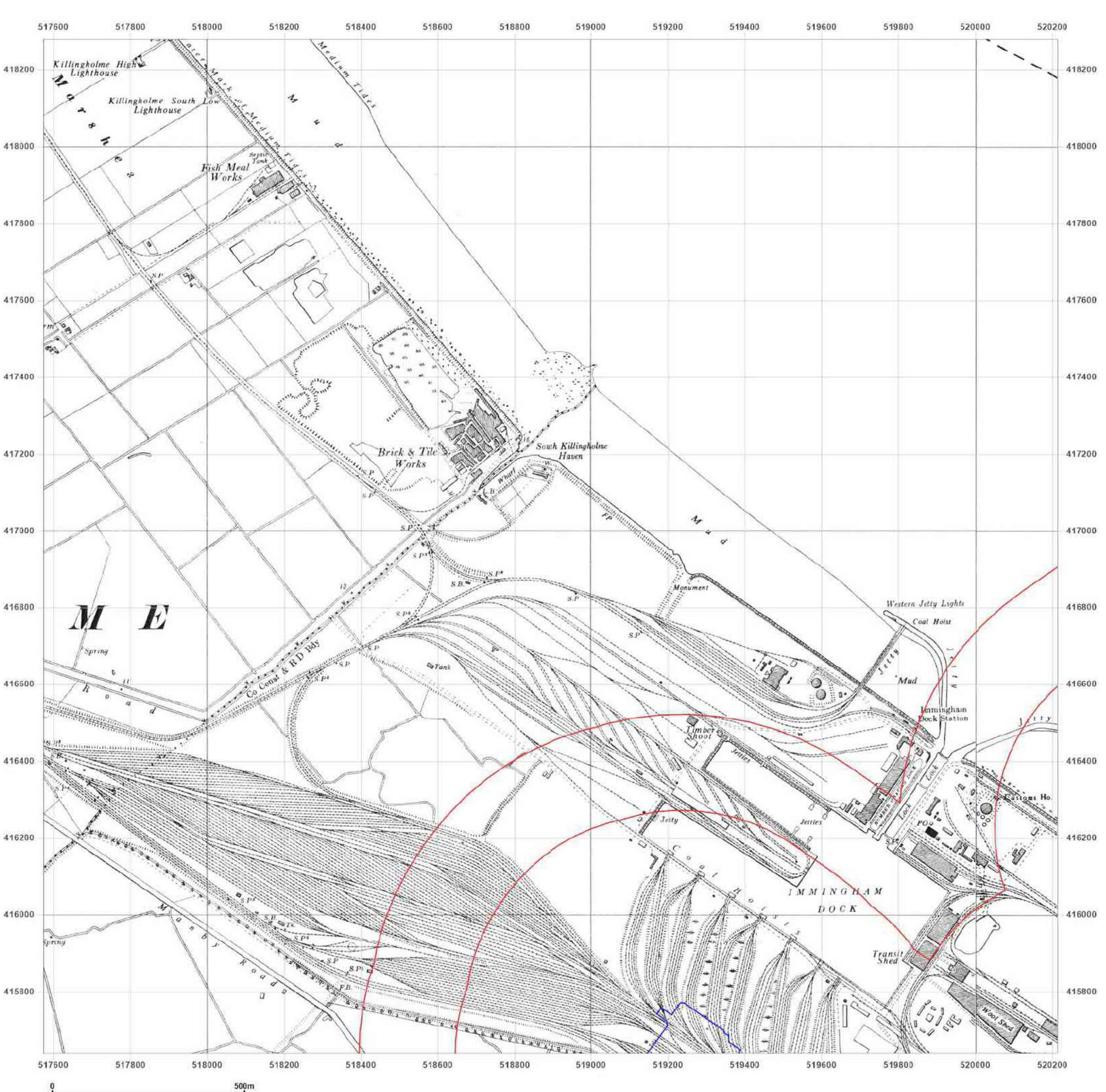
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** Provisional
**Map date:** **1951-1952**
**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

Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled N/A

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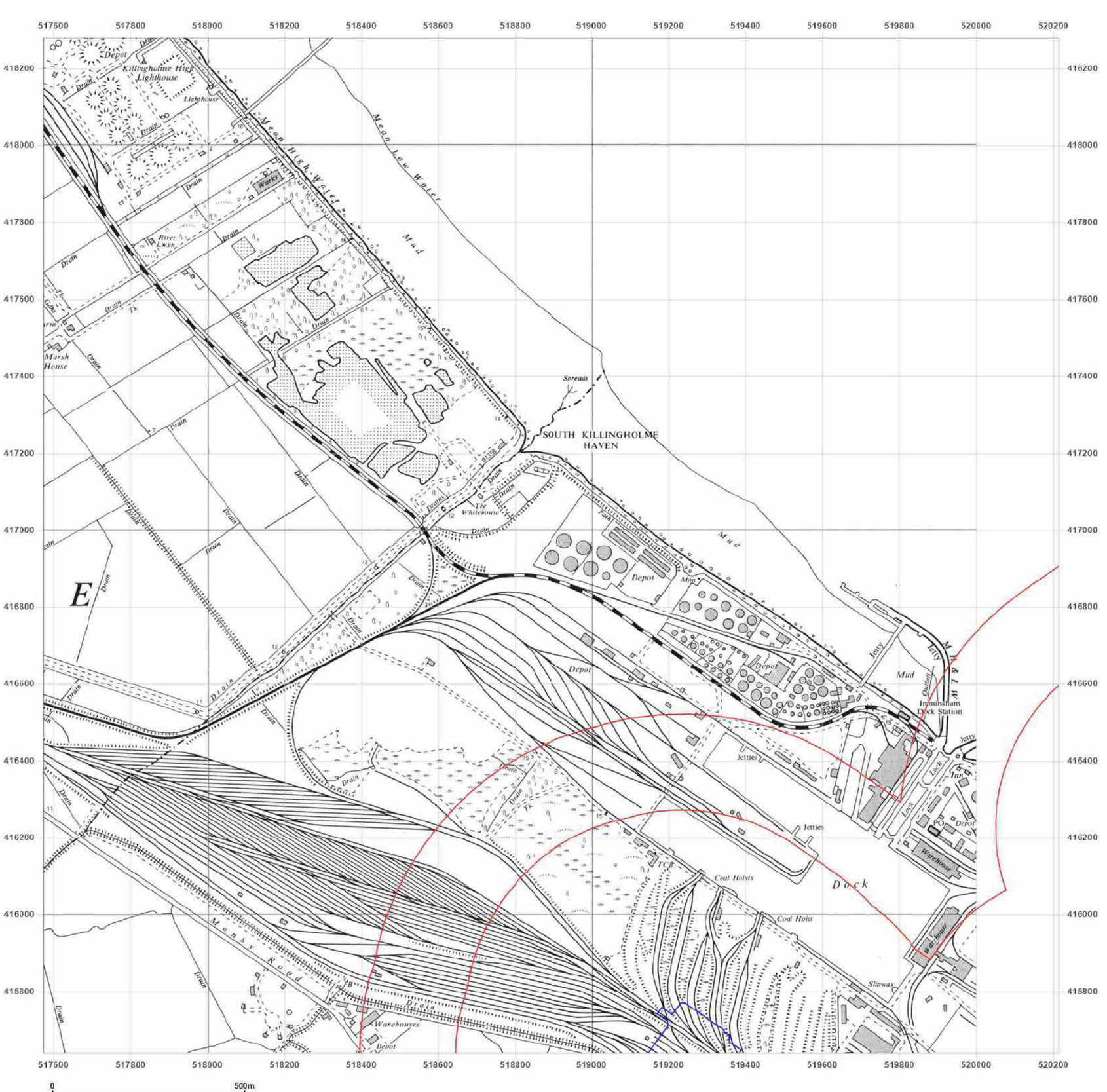
Production date: 08 October 2021

Map legend available at:

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

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

N
W E
S

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

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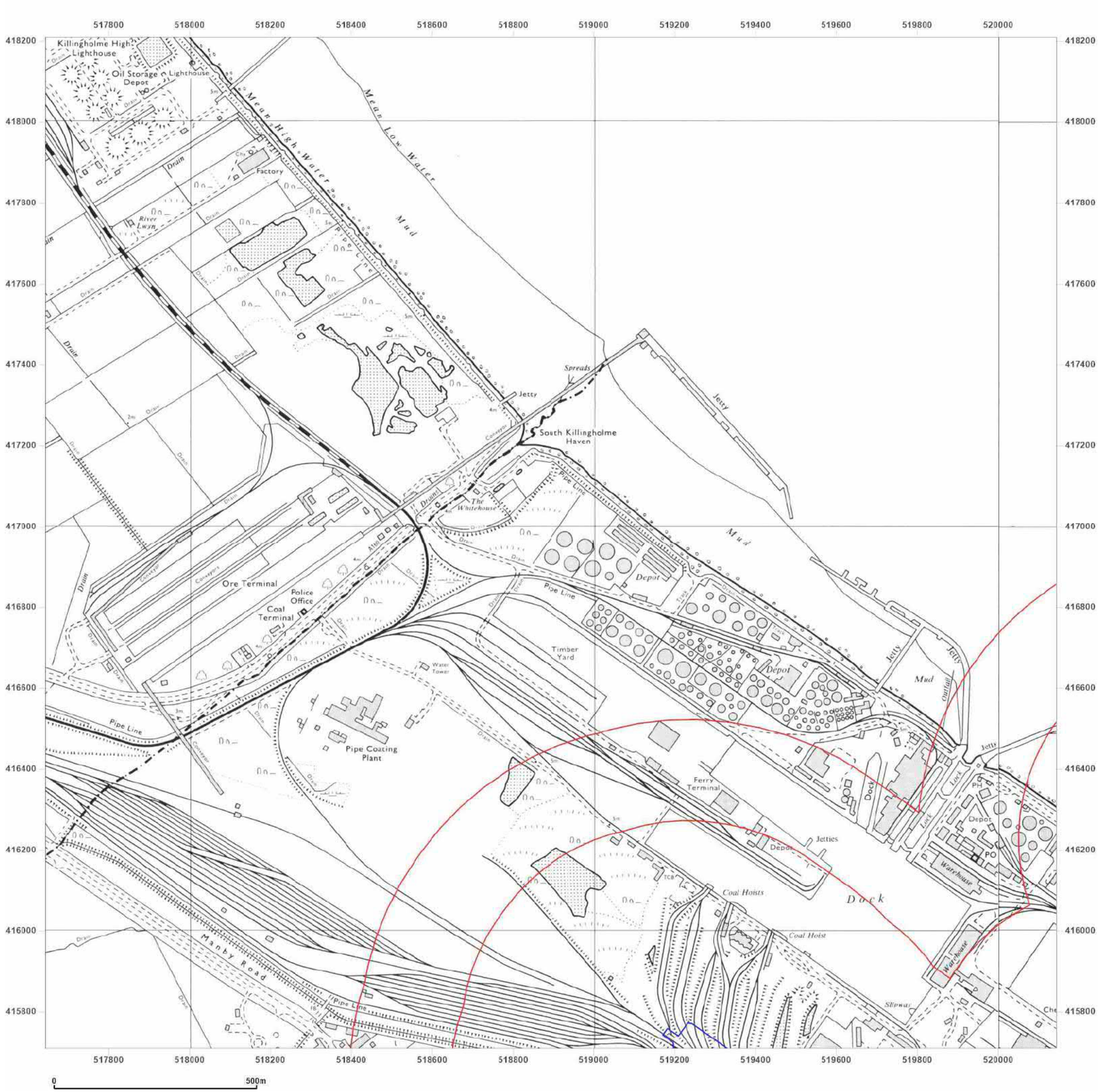
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** National Grid
**Map date:** **1972-1974**
**Scale:** 1:10,000
**Printed at:** 1:10,000

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

Surveyed 1972
Revised 1972
Edition N/A
Copyright N/A
Levelled N/A

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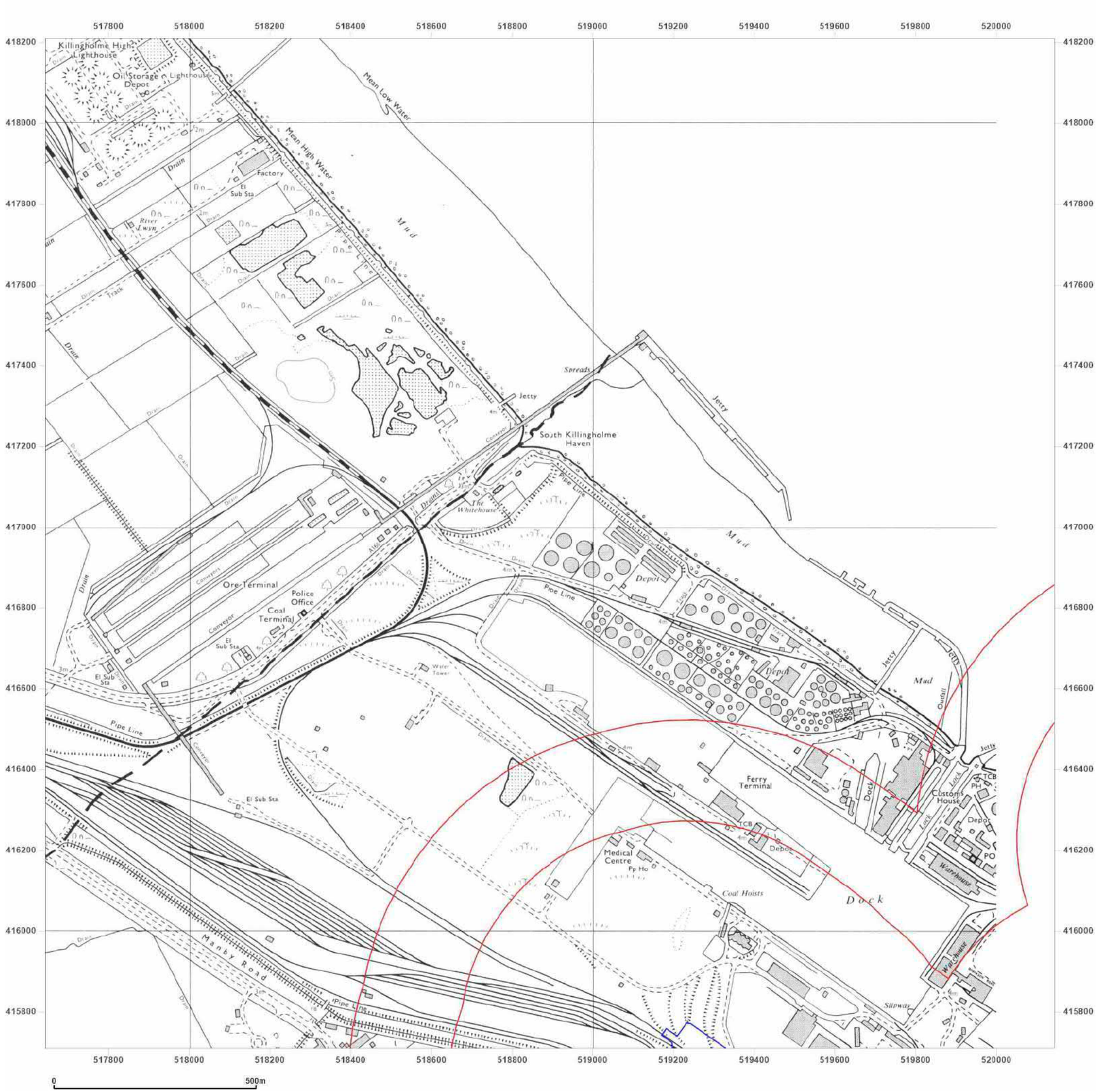
Production date: 08 October 2021

**Map legend available at:** [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** National Grid

**Map date:** **1983**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

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

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Production date: 08 October 2021

**Map legend available at:** [redacted]




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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

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

N
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2001

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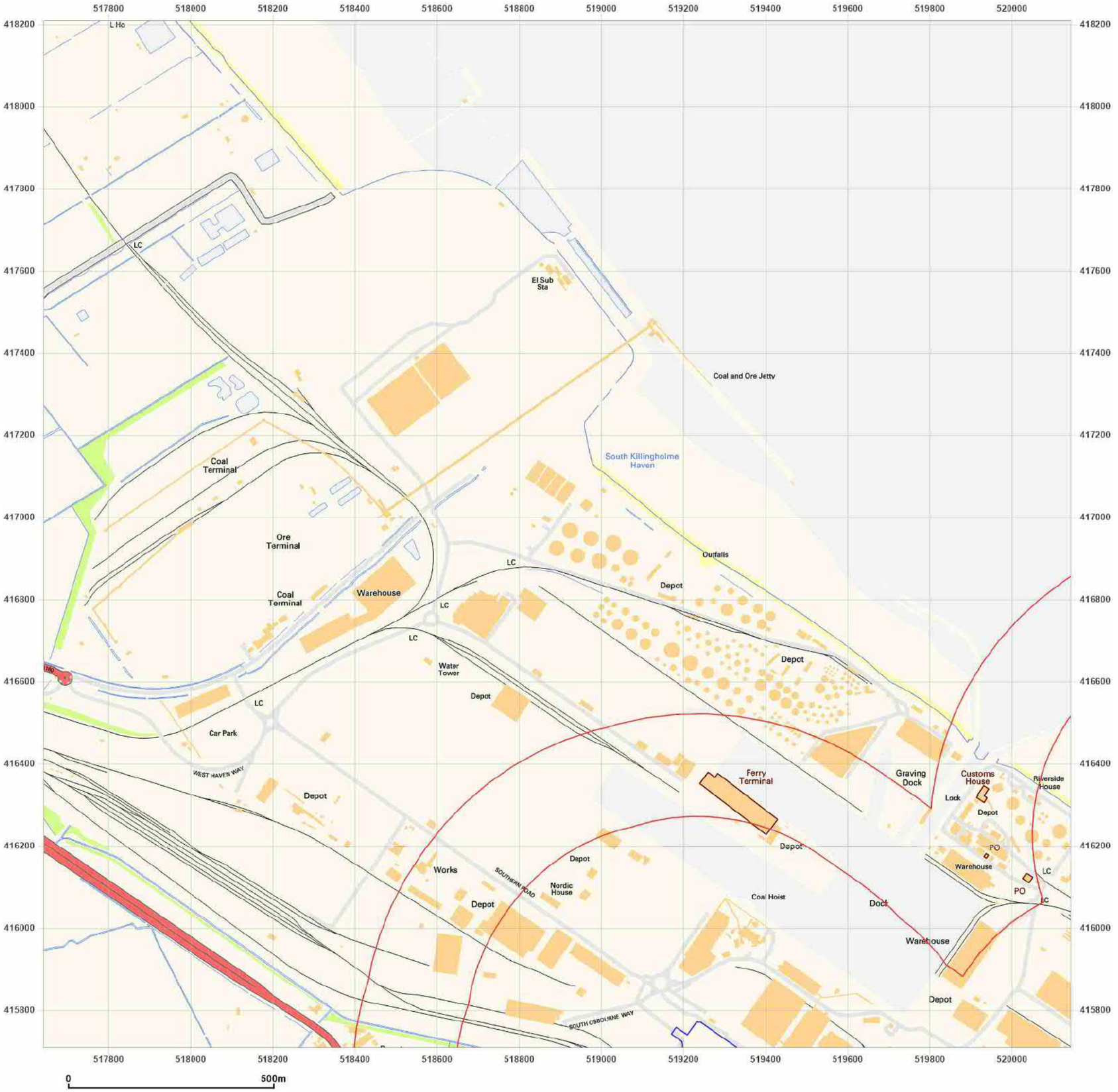
Production date: 08 October 2021

Map legend available at:




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

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

N
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2010

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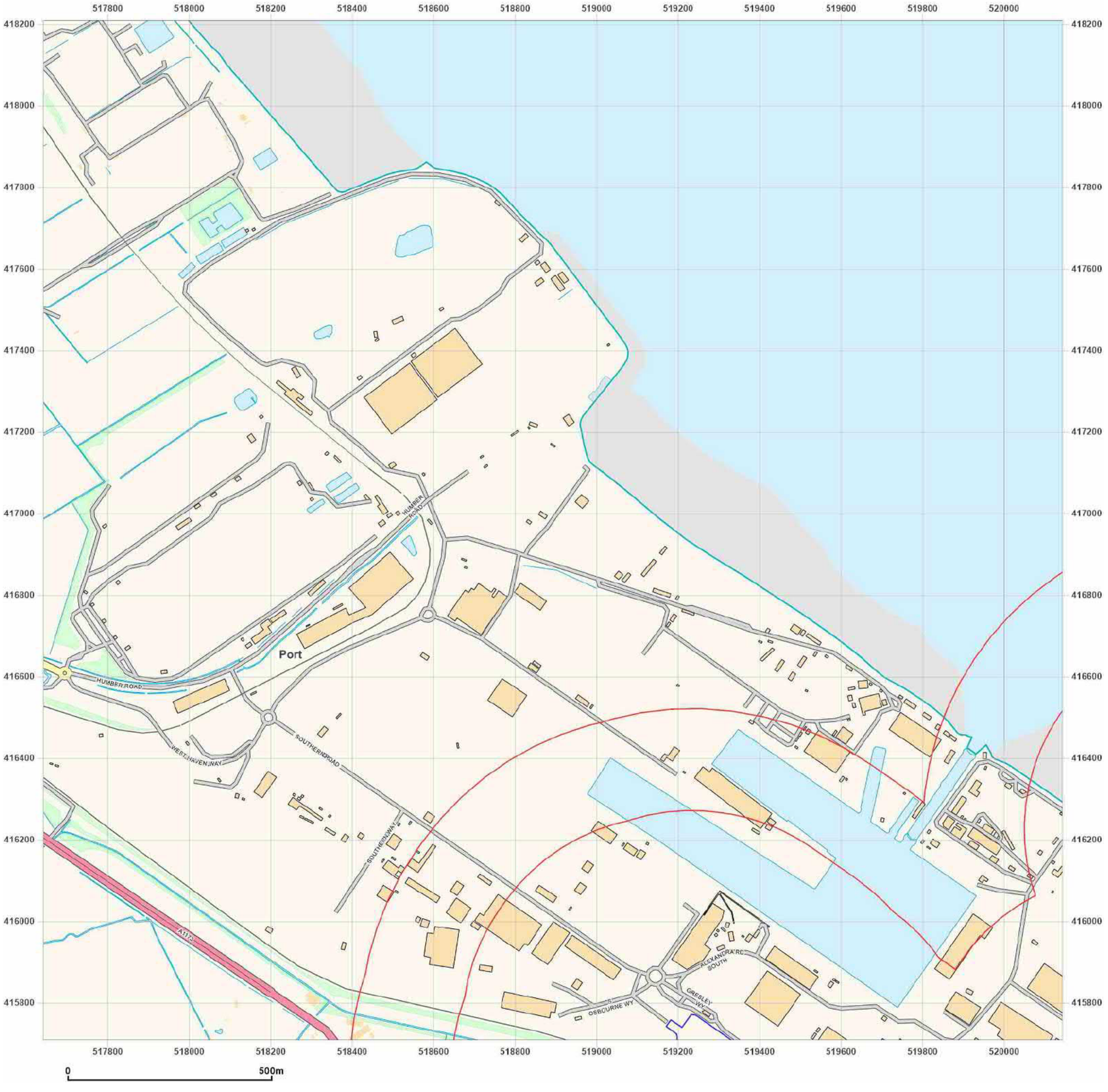
Map legend available at:




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_1_2
**Grid Ref:** 518893, 416959

**Map Name:** National Grid
**Map date:** 2021
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
W E
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2021

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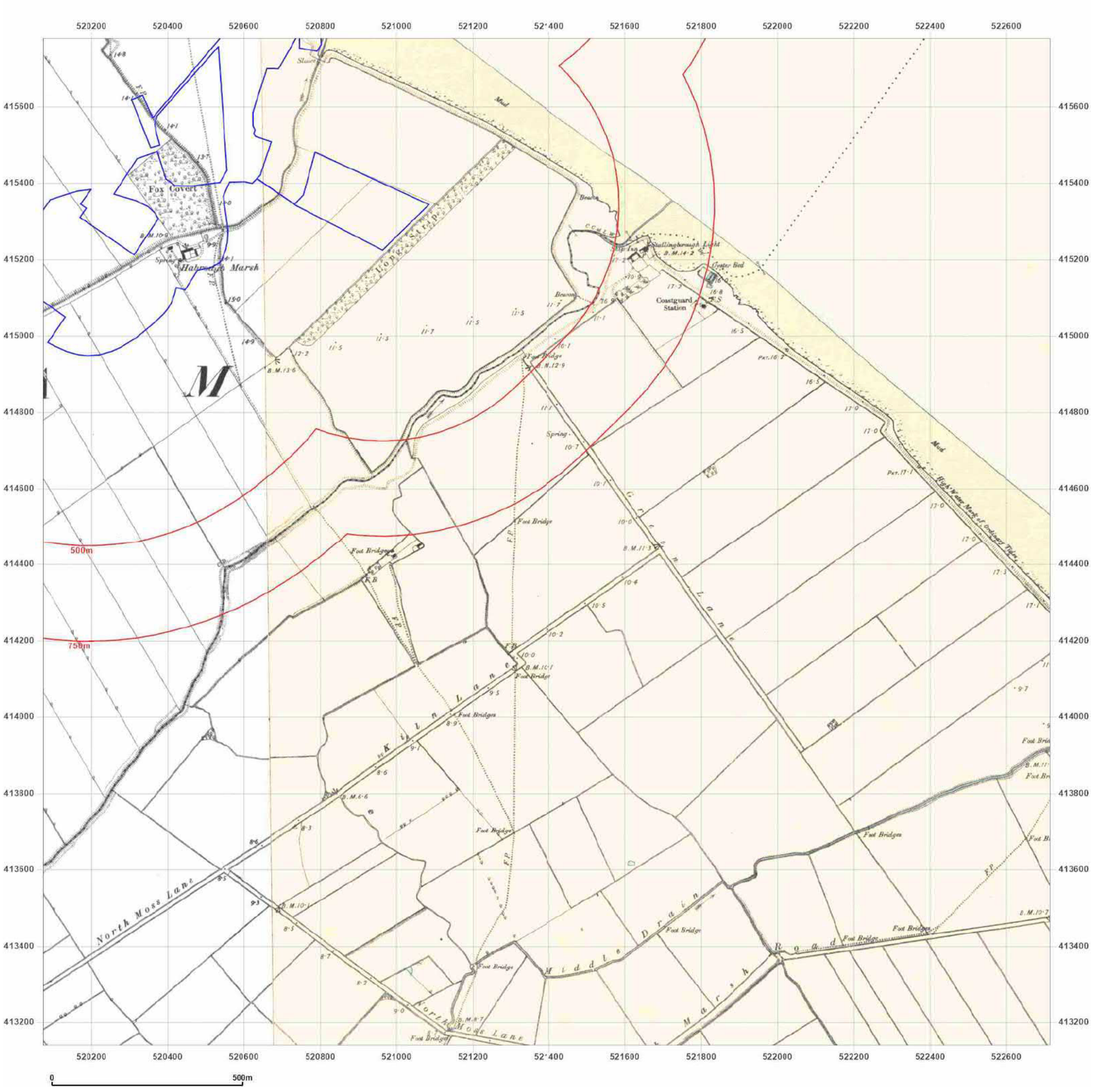
Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

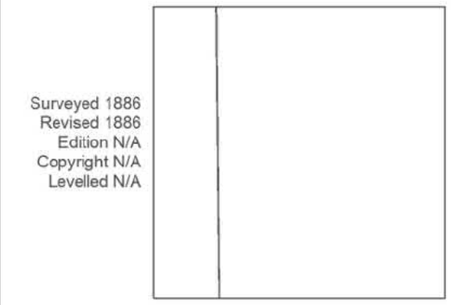
**Map Name:** County Series

**Map date:** **1886-1887**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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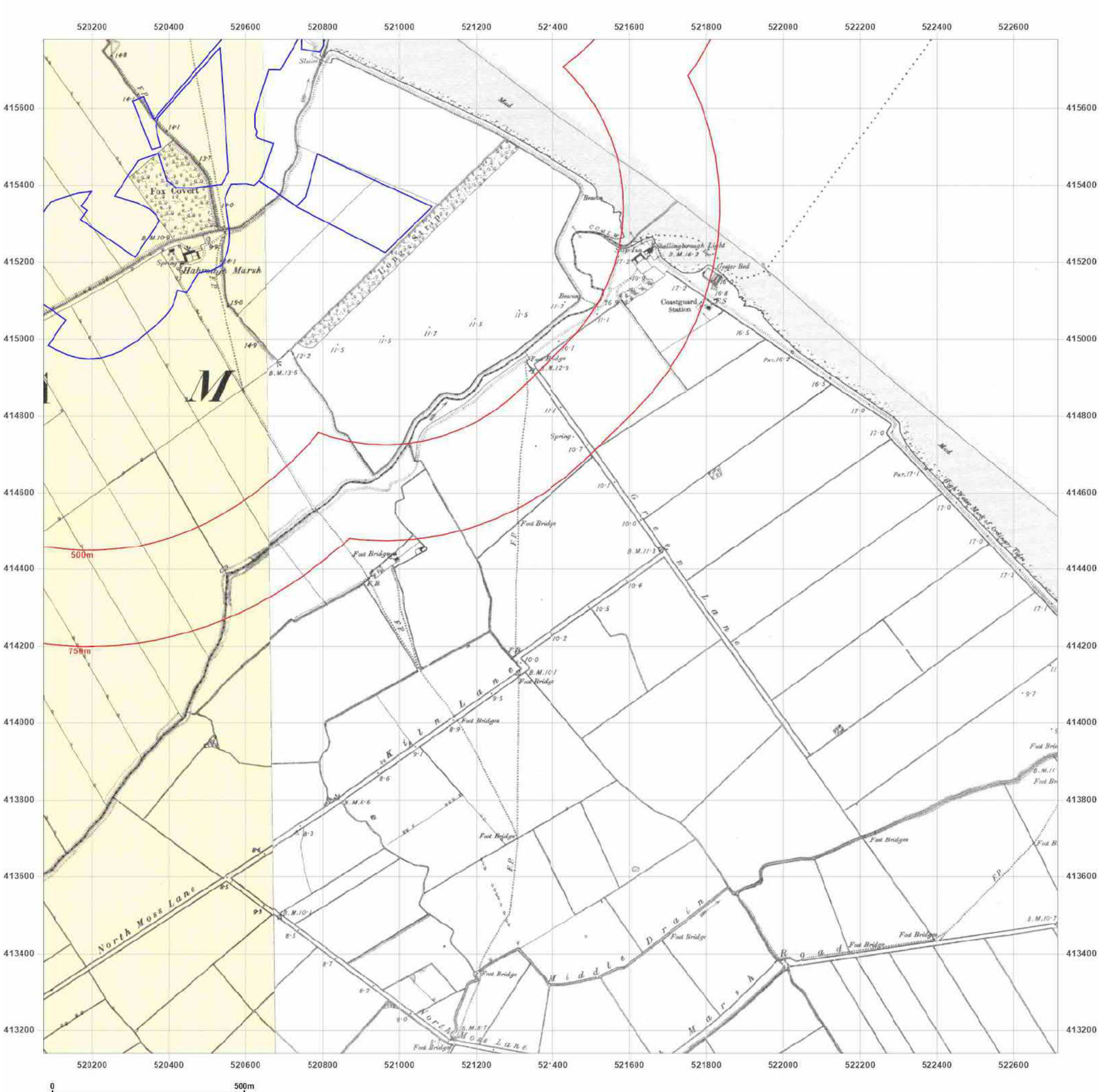
Production date: 08 October 2021

Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

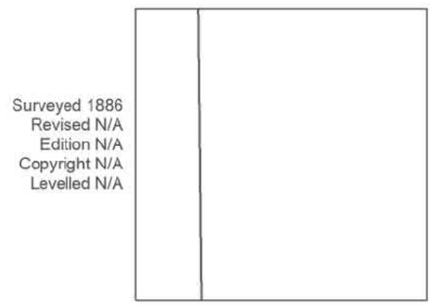
**Map Name:** County Series

**Map date:** **1886-1887**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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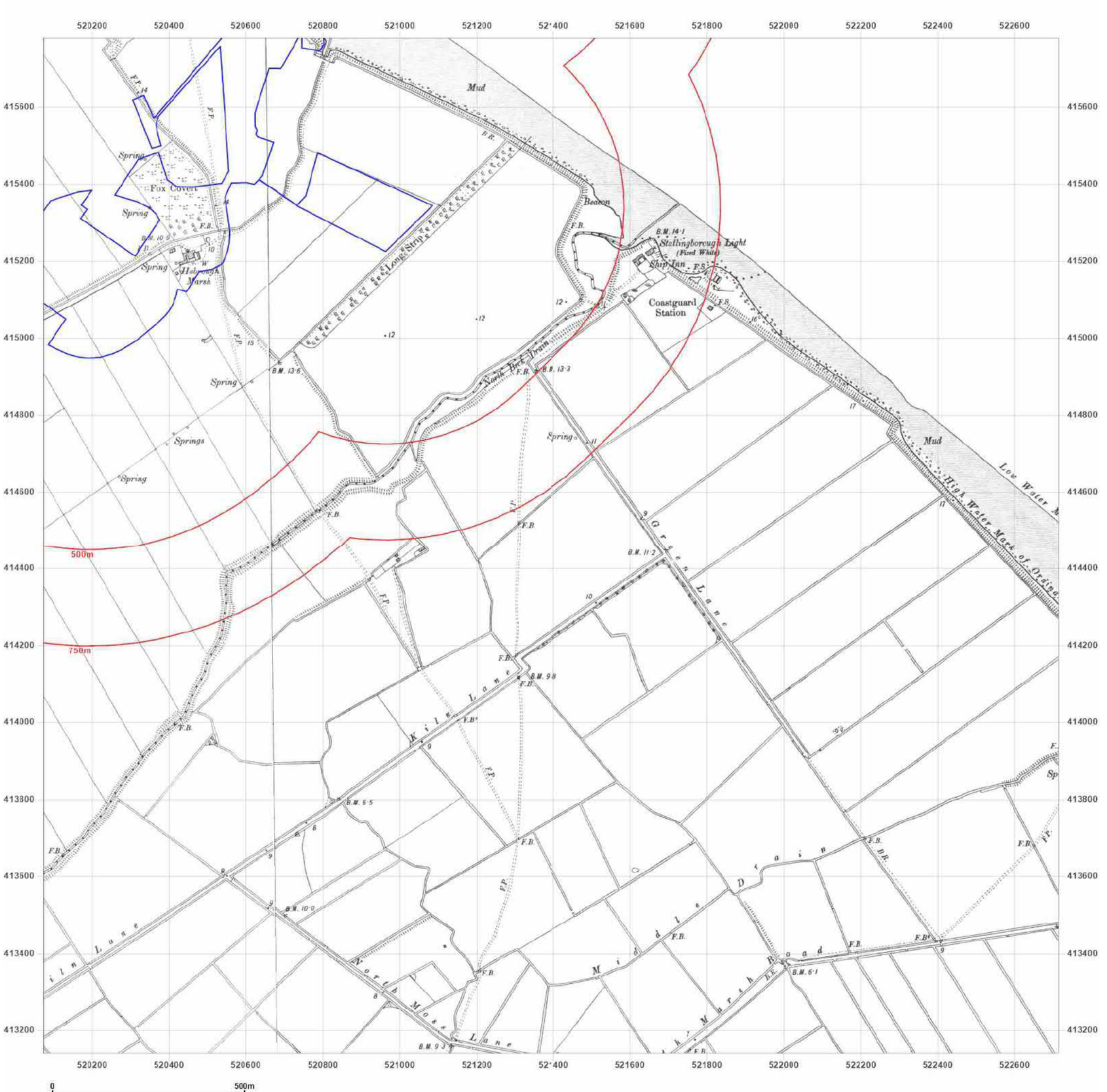
Production date: 08 October 2021

**Map legend available at:** [redacted]




**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

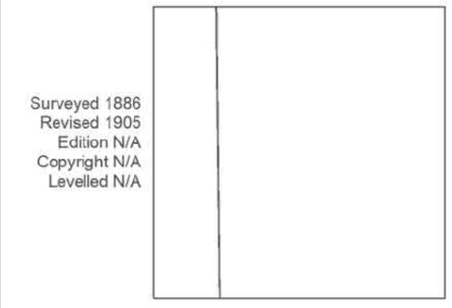
**Map Name:** County Series

**Map date:** **1905-1906**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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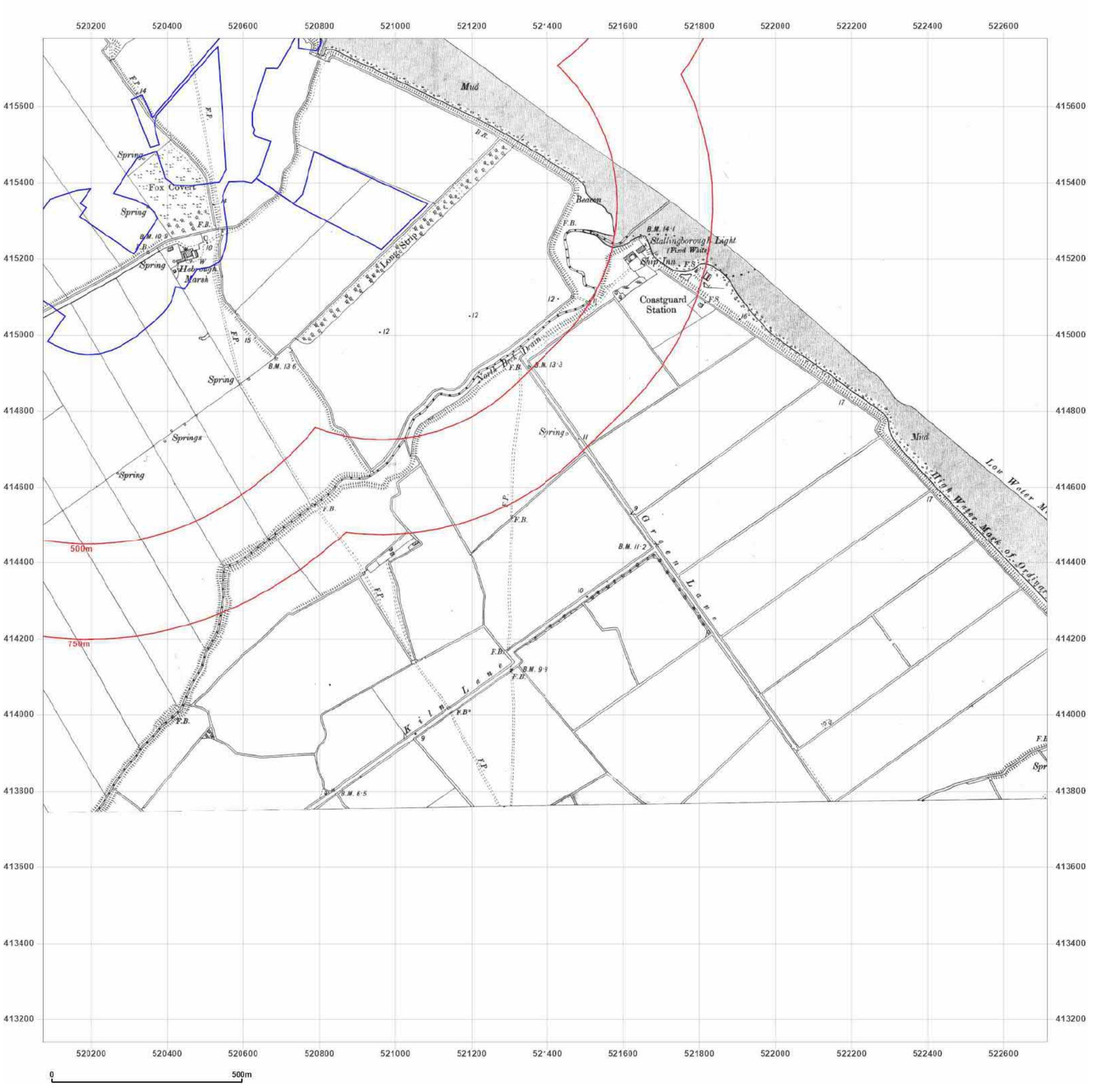
Production date: 08 October 2021

**Map legend available at:** [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

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

N
W E
S

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

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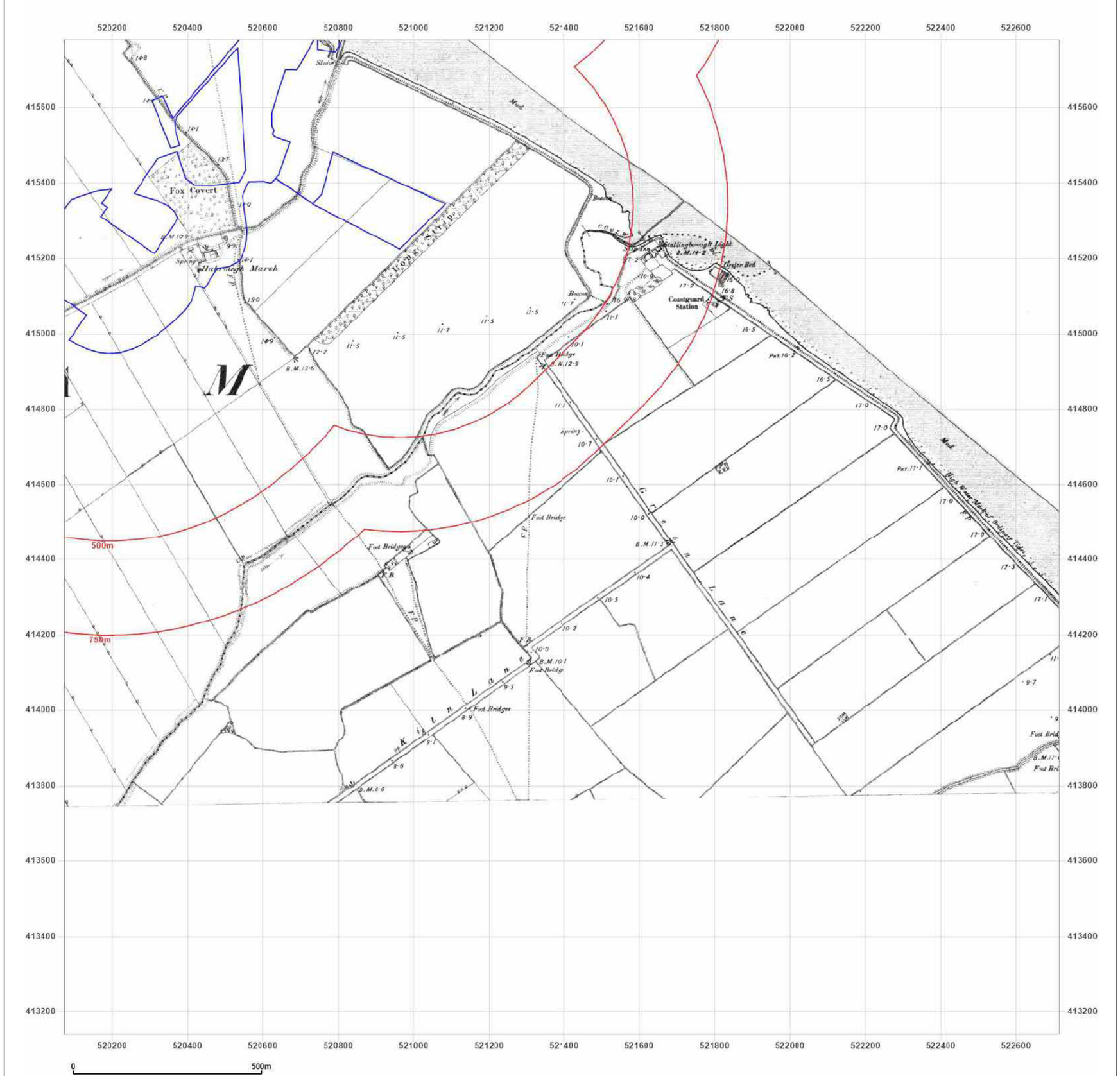
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** County Series

**Map date:** **1907**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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

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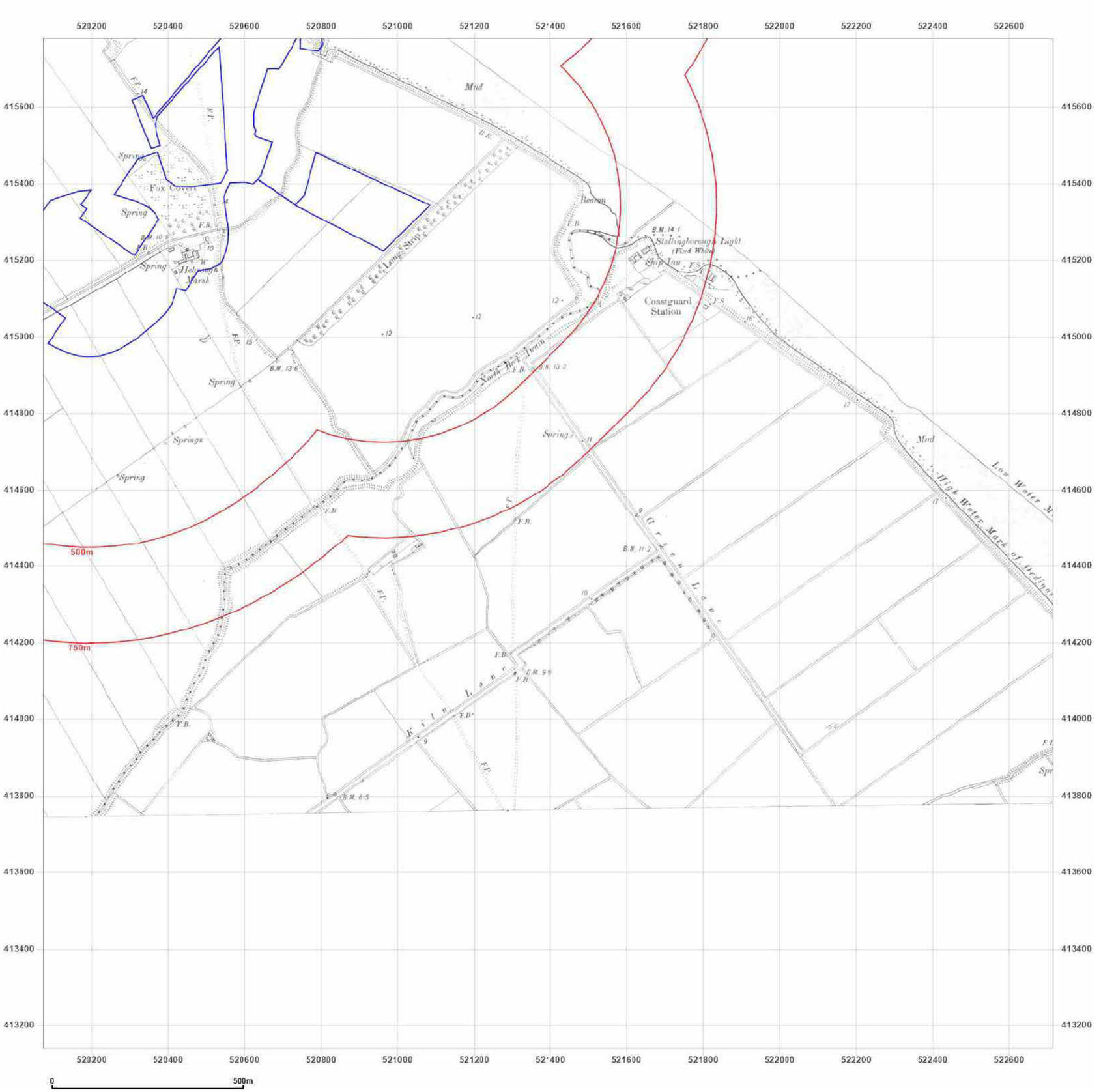
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

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

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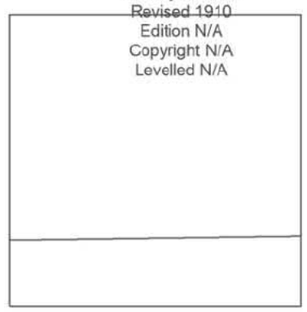
Surveyed 1853
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A



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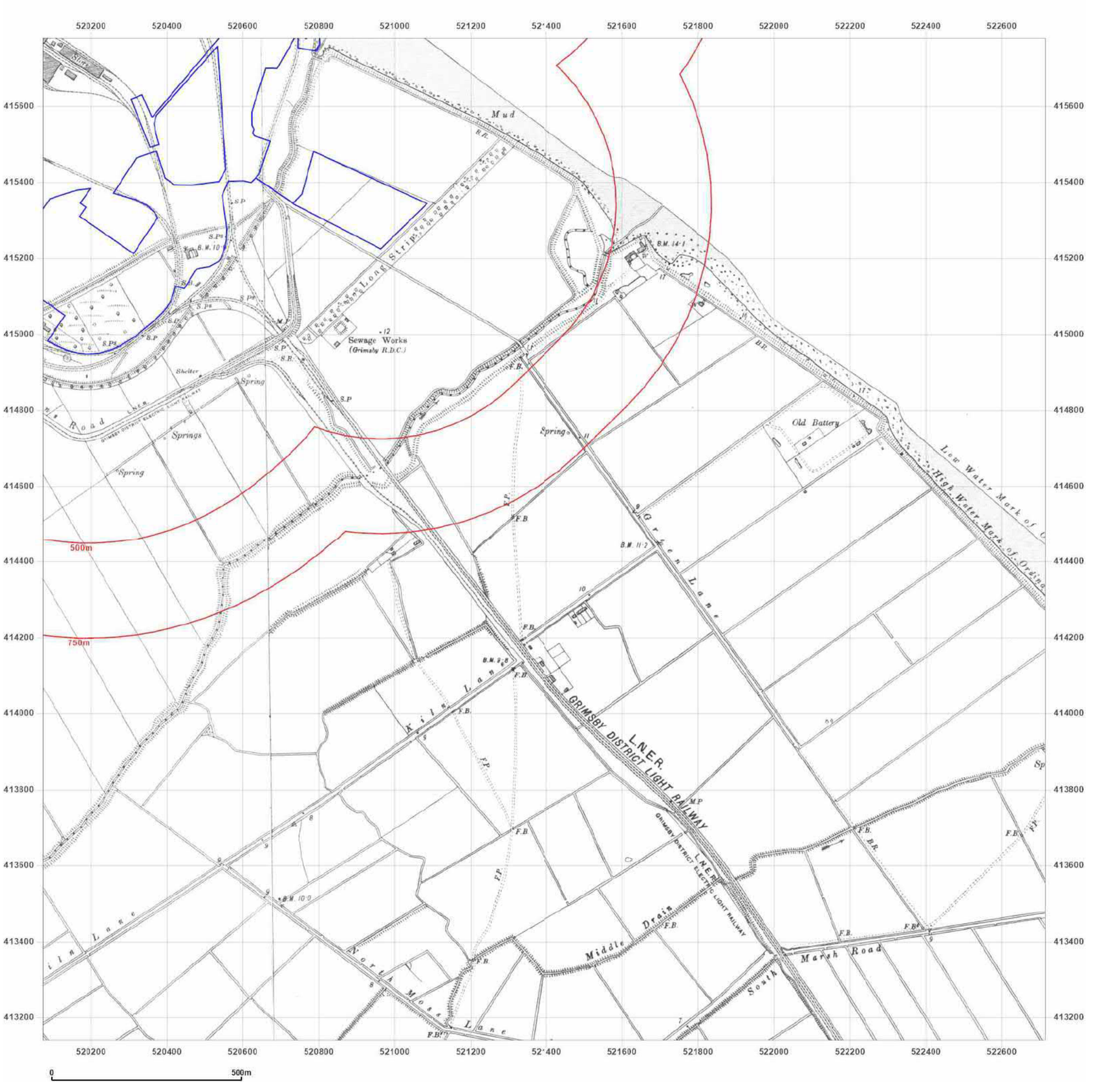
Map legend available at: [redacted]




Groundsure INSIGHTS

**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

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

N
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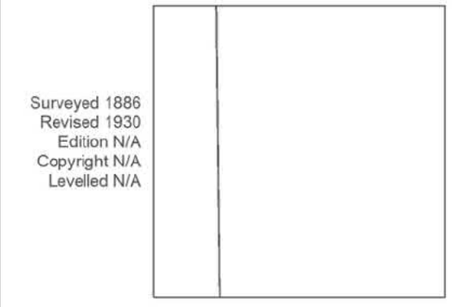


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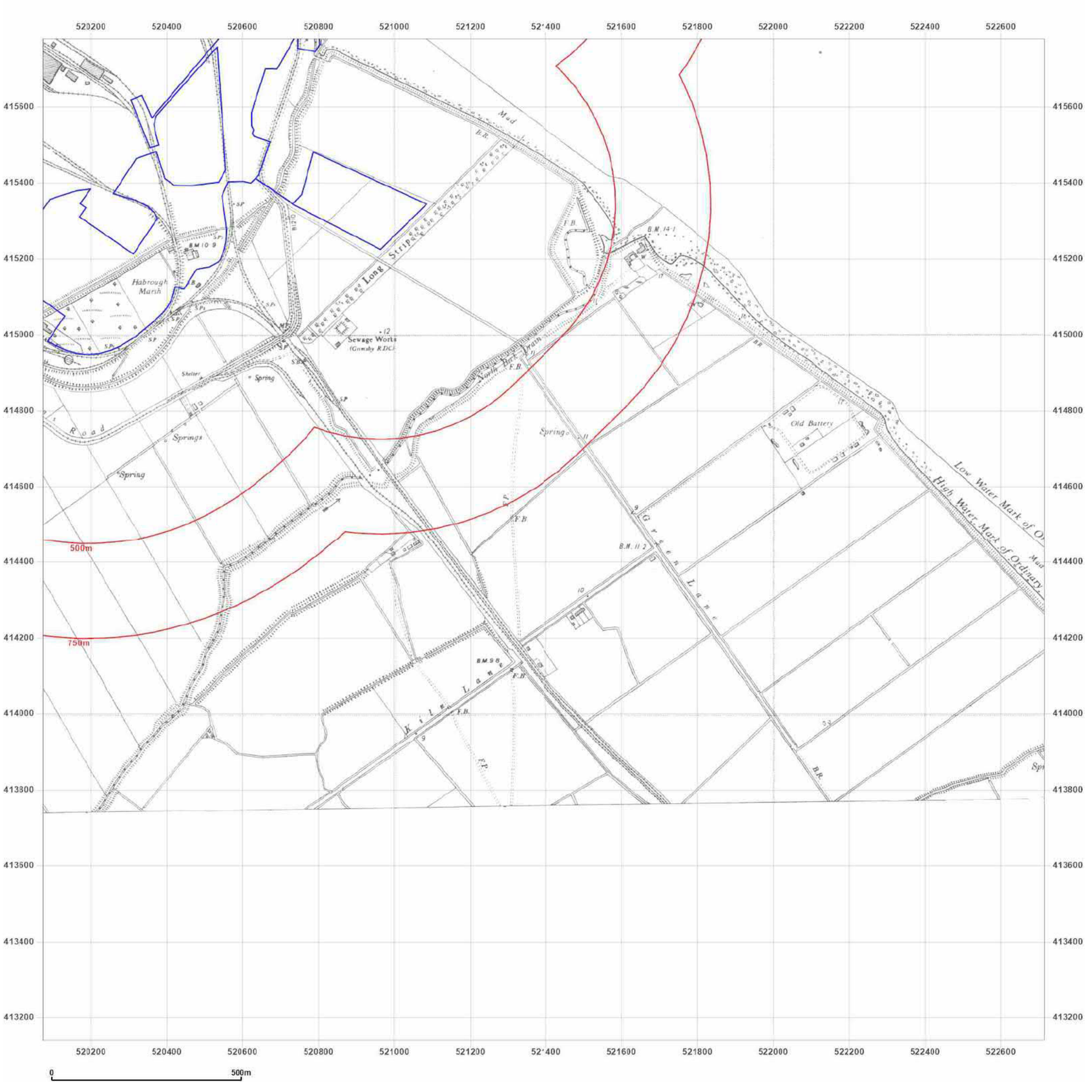


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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**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 1947
Copyright N/A
Levelled N/A

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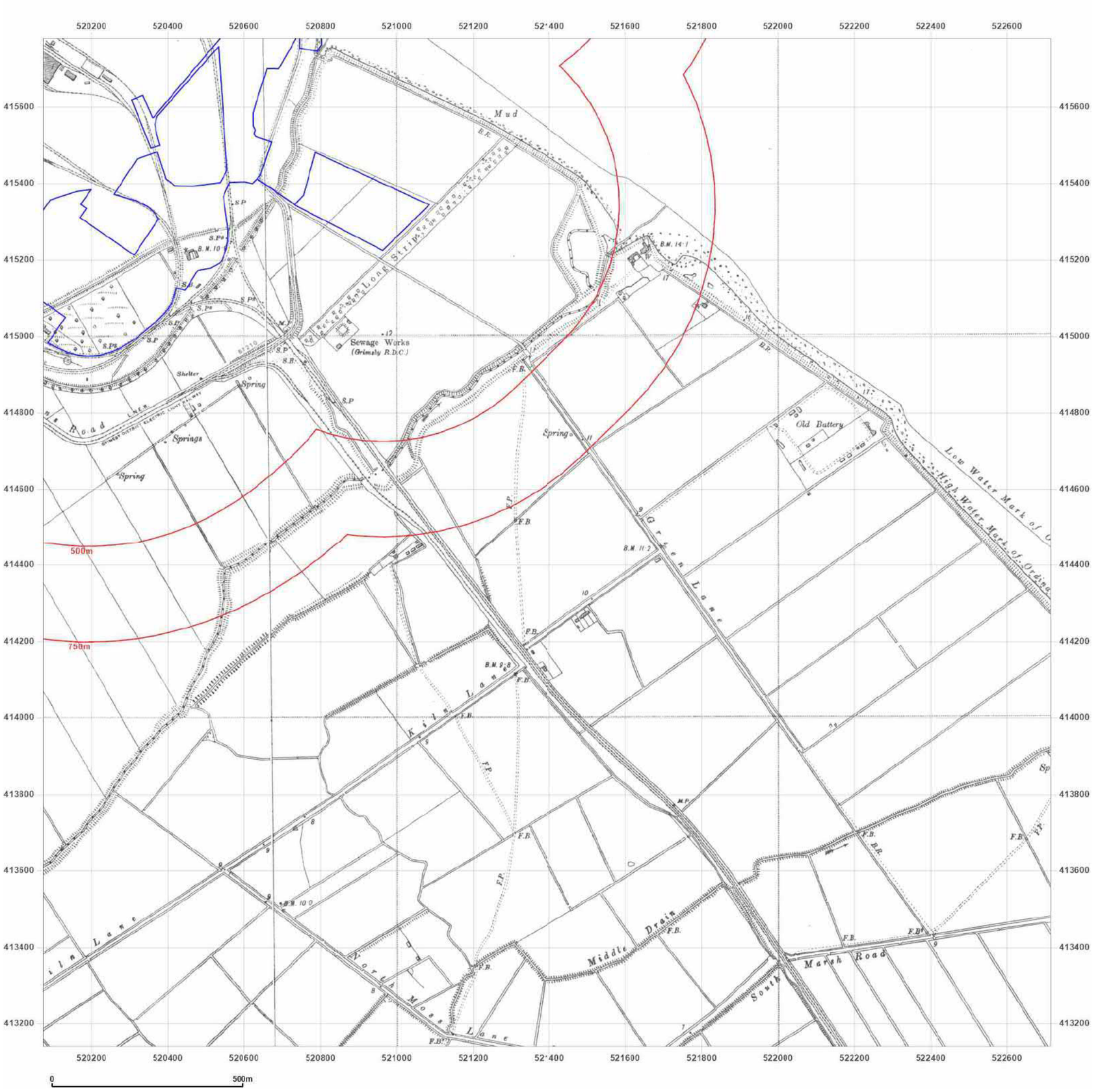
**Map legend available at:** [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** County Series
**Map date:** **1947-1951**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
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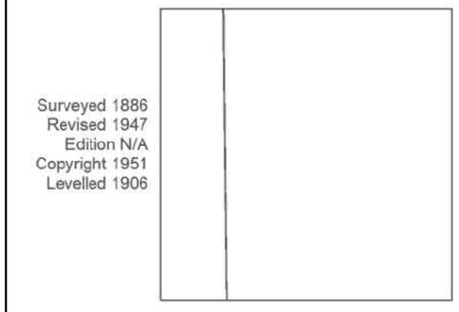


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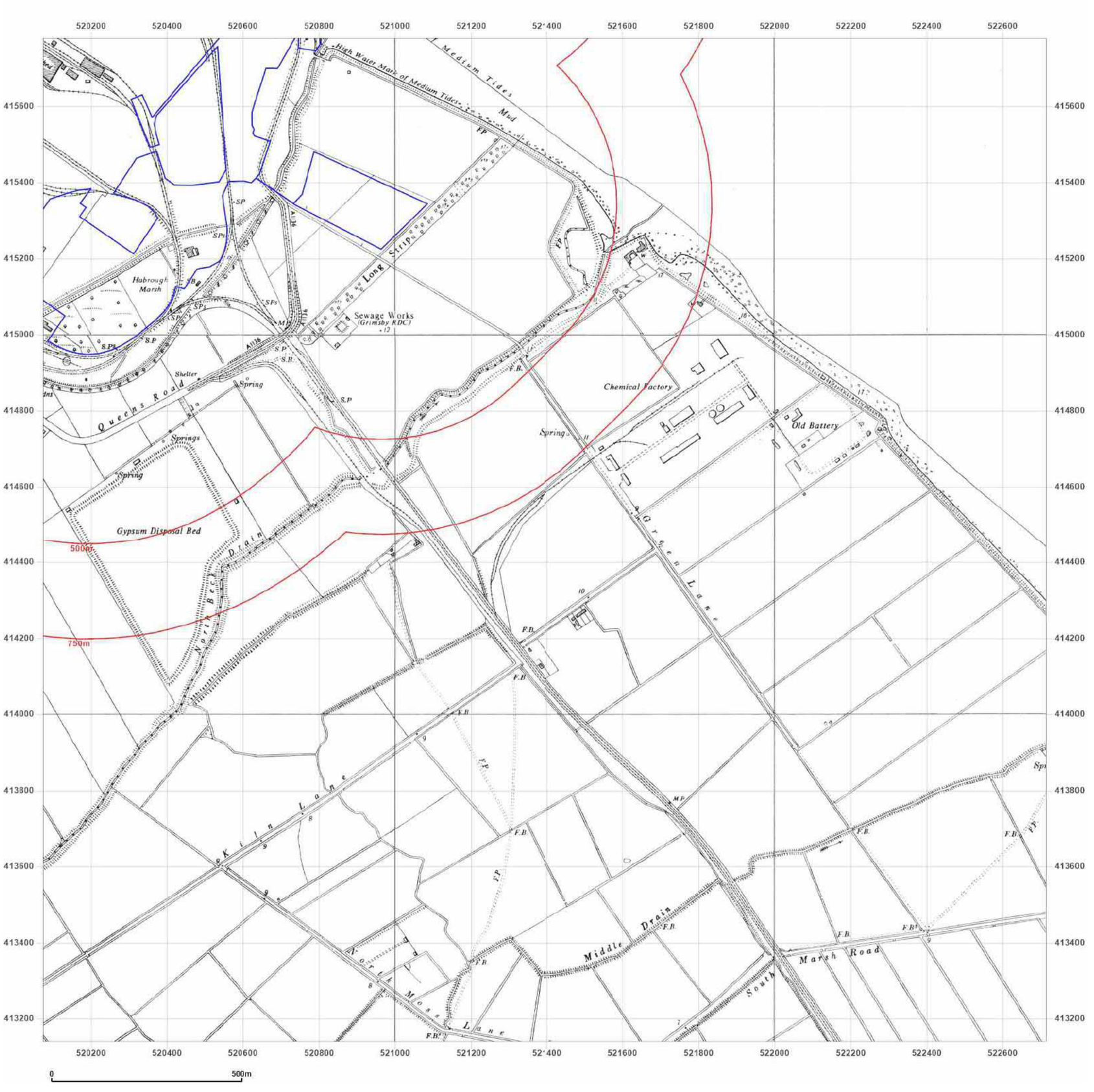
Production date: 08 October 2021

**Map legend available at:** [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** Provisional
**Map date:** **1952-1956**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
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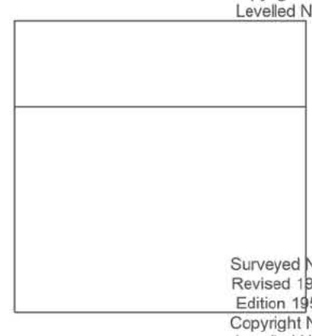
Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled N/A



Surveyed N/A
Revised 1956
Edition 1956
Copyright N/A
Levelled N/A

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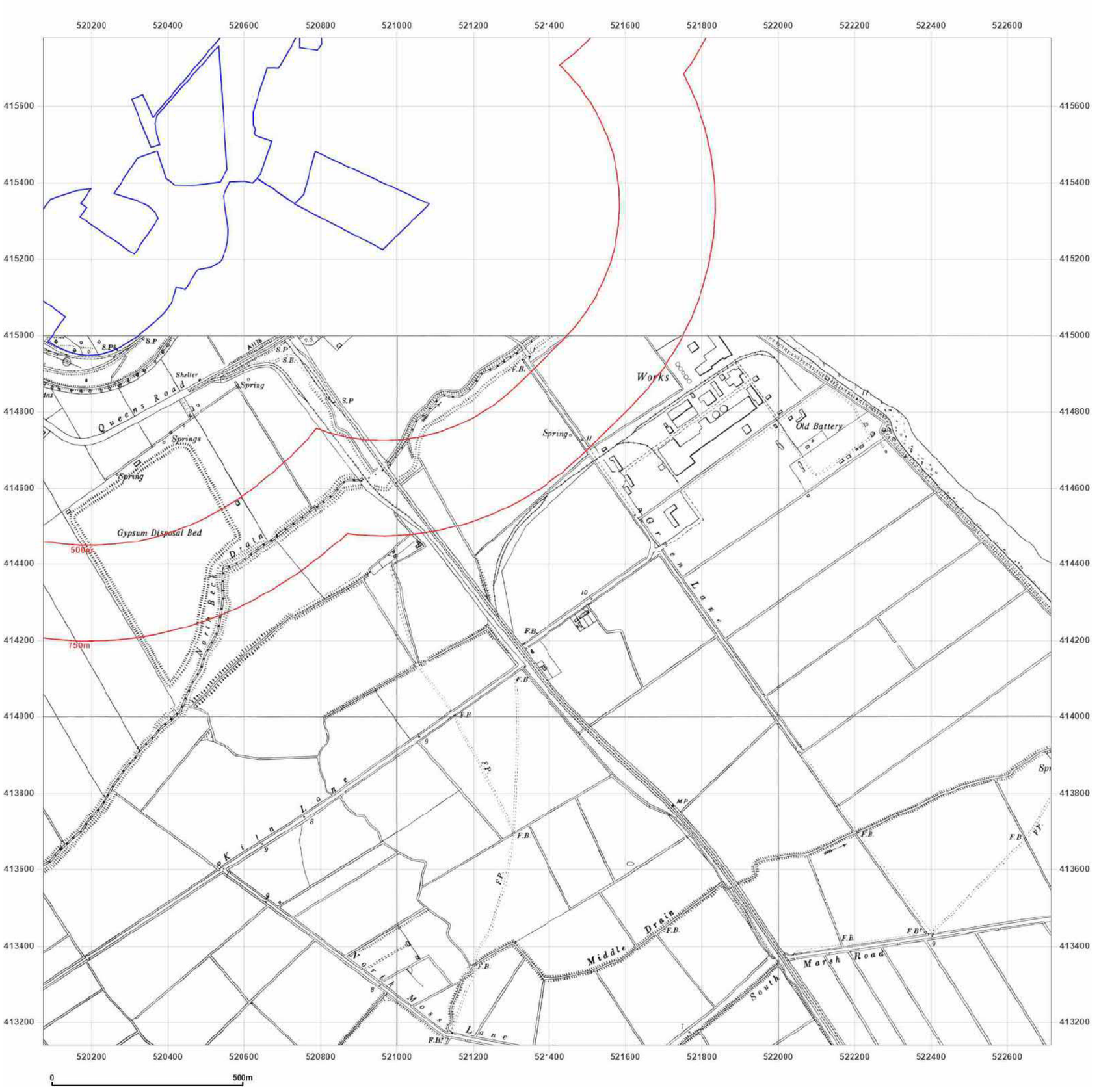


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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** Provisional
**Map date:** **1965**
**Scale:** 1:10,560
**Printed at:** 1:10,560

N
W E
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Surveyed N/A
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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Map legend available at: [redacted]




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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**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

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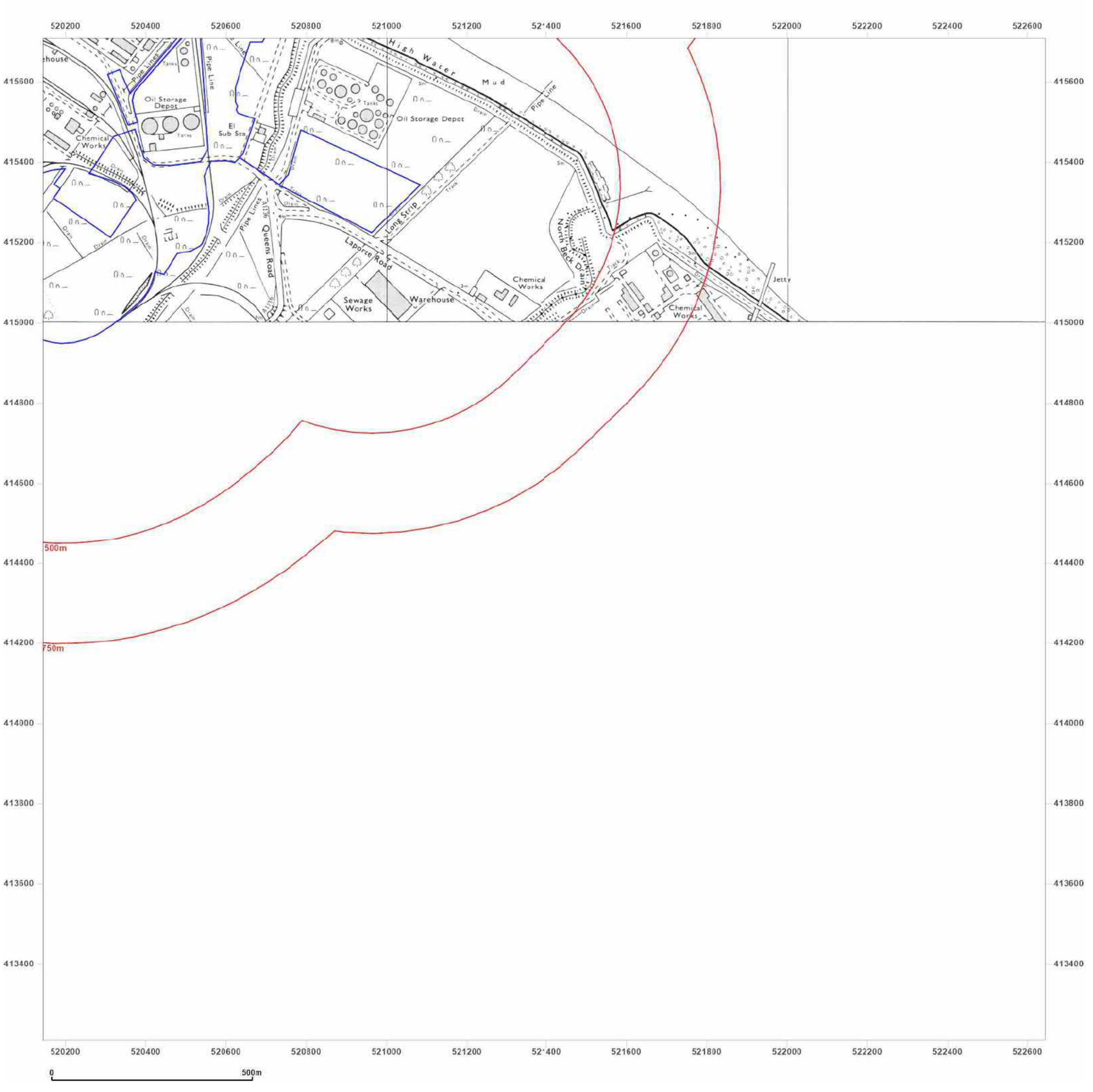
Production date: 08 October 2021

Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** National Grid

**Map date:** **1972**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
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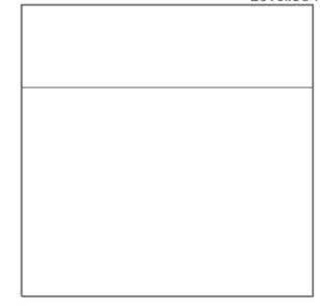
Surveyed 1972
Revised 1972
Edition N/A
Copyright N/A
Levelled N/A



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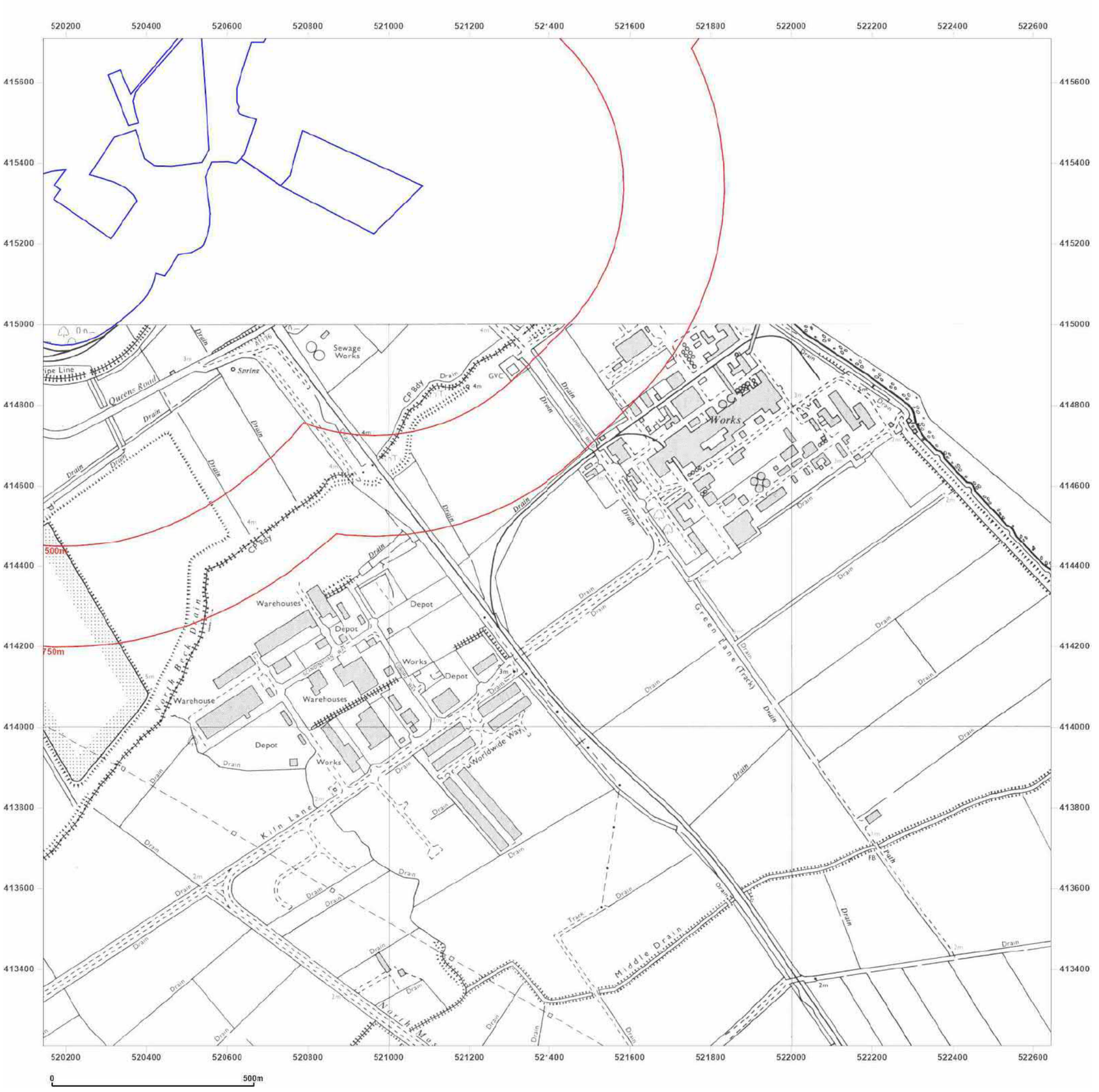
Map legend available at: [redacted]

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**Site Details:**

520380 , 415389

**Client Ref:** Project_Sugar_60664611
**Report Ref:** GS-8247702_SS_2_1
**Grid Ref:** 521393, 414459

**Map Name:** National Grid

**Map date:** **1980**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
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Revised 1980
Edition N/A
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**Map legend available at:** [redacted]