

# BOC TEESSIDE HYDROGEN FACILITY

**Land Quality Risk Assessment**

Prepared for: BOC Limited

SLR Ref: 406.05535.00011  
Version No: 1.3  
April 2022



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## DOCUMENT REFERENCES

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- Appendix 03: Site Walkover Photographs

### DRAWINGS

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- Drawing 03: Conceptual Site Model



## 1.0 Introduction

### 1.1 Appointment

SLR Consulting Limited (SLR) was commissioned by BOC Limited (Teesside) to complete a Land Quality Risk Assessment (LQRA) for their premises located at BOC Hydrogen Plant, Huntsman Drive, SABIC North Tees Site, Port Clarence, Stockton-on-Tees, TS2 1TT (the Site).

This report has been prepared by the Land Quality Group of SLR based at the Shrewsbury Office, Hermes House, Holsworth Park, Oxon Business Park, Shrewsbury, SY3 5HJ (Tel: 01743 239250).

### 1.2 Objectives

SLR understands that the Environment Agency (EA) has requested that periodic groundwater and soil sampling should be undertaken at the Site in order to monitor any changes to the environmental condition of the Site in accordance with the requirements of the environmental permit (Ref. EPR/BJ7522IJ).

Current environmental permitting guidance indicates that groundwater should typically be monitored at five-year intervals and soil quality should be reviewed every ten years after the commencement of the permitted operations, unless such monitoring is based on a systematic appraisal of the risk of contamination.

The objective of this LQRA is to provide a systematic assessment of whether there are potential land contamination risks and liabilities associated with current operations at the Site. This assessment will then be used to determine what actions, if any, need to be undertaken in order to further characterise and/or mitigate the identified risks prior to permit surrender.

SLR understands that the Site is to continue in ongoing use as an operational hydrogen production facility and this assessment is reported in that context, i.e., whether the site is considered to present potentially unacceptable risks to human health and environmental receptors during continued use as a hydrogen production industrial facility.

SLR also understands that a proposed development for a new CO<sub>2</sub> capture, connection, purification & liquefaction plant is to be situated on land immediately north of the current site. This development will form part of further permitted activities and therefore this parcel of land is included in this assessment. The current site features and layout is shown on Drawing 01 and the proposed development plan is shown on Drawing 02.

### 1.3 Scope of Work

The scope of work for this report included:

- Review of land use history – Undertaking a review of available historical maps. Extracts of the maps have been used to illustrate the historical land use of the Site and surrounding area.
- Assessment of local ground conditions and geology – Undertaking a review of geological and mining records (e.g., geological maps, coal authority mining report etc). The nature of the local superficial and bedrock geology has been assessed, as well as any artificial ground, potential stability issues, historical mining activity or ground workings.
- Assessment of site sensitivity and environmental setting – Undertaking a review of geological and hydrogeological records (e.g., geological maps, groundwater sensitivity and vulnerability maps etc.). The quality of nearby surface waters and underlying groundwater has been assessed, as well as any data available on pollution incidents, abstractions and discharges.
- Collection of information from public registers and regulators – Obtaining and reviewing public register information that is available via the GroundSure database, which can be obtained more quickly than

through direct contact with the regulators and other public bodies.

- Review of existing reports – Any pertinent information provided by the client within the timescale of the project has also been reviewed and reported.
- Site visit – A walkover of the Site and surrounding area was undertaken to:
  - Assess visual evidence of contamination and identify potential sources of contamination;
  - Review the potential for pollution to have occurred at the Site; and
  - Identify the surrounding land use.

A photographic record was also made of the Site.

- Data assimilation and risk assessment – All relevant data has been gathered and summarised in the report. The Land Quality risk assessment involved an assessment of potential sources (e.g., chemical storage, spillages etc), pathways (e.g., surface water drainage) and receptors (e.g., controlled surface watercourse) at or adjacent to the Site. A conceptual site model has then been developed and the level of risk determined qualitatively from the model.

## 1.4 Data Sources

The report has been produced following consultation with the sources of information summarised in Table 1-1.

**Table 1-1: Information Sources**

Information Type	Source
General topography and site setting	Ordnance Survey (OS) mapping, accessed via Magic online mapping: <a href="https://www.magic.gov.uk">https://www.magic.gov.uk</a>
Site and background information	GroundSure Ltd Historical Ordnance Survey Map Extracts EMS_744284_968373 10 <sup>th</sup> December 2021 (Supplied by eMapSite & presented as Appendix 01)  GroundSure Ltd Enviro & Geo Insight Report, EMS_744284_968374 10 <sup>th</sup> December 2021 (Supplied by eMapSite and presented as Appendix 02)
Geology and hydrogeology	British Geological Survey (BGS) website <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a> .
Available previous environmental assessment reports	The Site has provided copies of past intrusive investigations and other available reports to SLR. For further detail see Section 3.3.3.

## 2.0 Site Details

The site details are presented in Table 2-1 below, which summarises the key site details based on information provided by BOC Teesside and a site walkover completed by SLR Consulting on the 25<sup>th</sup> November 2021.

**Table 2-1: Site Details**

Detail	Description
Applicant Name	BOC Limited
SCR Reference	406.05535.00011
Activity Address	BOC Hydrogen Plant, Huntsman Drive, SABIC North Tees Site, Port Clarence, Stockton-on-Tees, TS2 1TT.
National Grid Reference (NGR)	NGR 452346, 523314 identifies the approximate location of the Site (see Appendix 01).
Surrounding Land Use	The Site is leased land forming part of a larger industrial area of the SABIC North Tees Site. Directly north, northeast, east and west of the Site is disused industrial land following the demolition of an Aromatics and Cumene Plant. Further east lies the remainder of the SABIC North Tees Site (a petrochemical manufacturer) which includes storage facilities, operational jetties on the River Tees, ethylene liquefaction terminal, brine extraction and ethane import terminal. An Effluent Treatment Plant is also present which processes all waste water on the North Tees Site. Approximately 100m west of the Site, beyond the North Tees Site is a lagoon and reclamation pond. Workshops were noted approximately 25m south of the Site. No residential properties were observed within 500m of the Site.

### 2.1 Site Description

The Site is roughly 1.26 hectares and is situated on leased land of the SABIC North Tees Site, accessed off Huntsman Drive. The Site comprises a hydrogen plant located centrally and in the south; an area of undeveloped land is in the north awaiting construction (historically part of a Cumene plant). The Site is situated approximately 5km northeast of Middlesbrough city centre within a tract of reclaimed land utilised for industrial development along the Tees estuary. Access and egress to the Site is through a manned security barrier leading from Huntsman Drive, which connects to the A178 (Seaton Carew Road) further to the west.

The main activity undertaken at the Site is the reforming of natural gas to produce hydrogen gas. There is no storage of the gas feed or end product. Natural gas is fed via a pipeline directly to the Site. The produced hydrogen gas is fed off-site directly to BOC clients. All feeds are via a culvert in the east of the Site.

Historically the Site served an aromatics plant (part of adjacent SABIC UK Petrochemicals Ltd - North Tees Works). However, in January 2017 this closed down removing their existing steam customer and utility provider. A permit variation application was approved in 2017 (Ref. EPR/BJ75221J/V003) and stated the following:

*“to allow the hydrogen plant to continue to operate this variation is to reconfigure the works to utilise the co-produced steam the plant produces in the steam methane reformer, as well as install new power and water supply routes. The steam will be used to further warm up the combustion air to the reformer and the new cold demineralised water supply. Any residual steam will be condensed and returned to the deaerator. There are no additional point source emissions to air, land or water as a result of this variation”*

The south of the Site was developed in 2017 to its current layout. During the site walkover it was identified that there are proposed plans to further develop the Site, which are in discussion and awaiting approval. The proposed development is for a CO<sub>2</sub> capture, connection, purification & liquefaction plant and will be included as a future variation of the current environmental permit for the Site. This area of land is included as part of this assessment.

## 2.2 Site Features

The Site itself comprises three main areas: a large central hydrogen plant; to the south lies the control room, maintenance buildings, a steam condensate system and demineralisation plant; and to the north of the hydrogen plant is currently undeveloped land:

- The original hydrogen plant unit was built in the early 2000s and is situated centrally on-site, extending towards the southeast corner. All features of the hydrogen plant are above ground; areas include a reformer composed of burners and tubes, heat exchangers, hydrogen compressors, pressure swing absorption (PSA) units, cooling tower and water treatment areas. Internally bunded above ground tanks containing acids, alkalis and effluent are located immediately north of the current plant.
- The southern area of the Site was built in 2017 following closure of the adjacent aromatic plant and now includes a steam condensate system, demineralisation plant and water storage tank. Internally bunded above ground tanks containing acids, alkalis and effluent are also present to the southwest.
- In the north of the Site is currently undeveloped land, which is awaiting development for the proposed CO<sub>2</sub> capture, connection, purification & liquefaction plant, which will expand the area of permitted activities, forming a new variation to the existing permit held at the Site. New bunded above ground tanks containing acids, alkalis and relatively low volumes of compressor oil (lubricant) will be stored in this new area of the Site. There will also storage of liquified CO<sub>2</sub> in above ground storage tanks.

There are two on-site buildings. The main site building to the south of the hydrogen plant comprises the control room, offices and canteen area and also a water treatment building in the south. These are constructed of a blast resistant metallic construction, absent of windows. Metal shipping style containers are also located in the south of the Site comprising toilets, archives and storage. A bunded chemical store was located in the north of the Site containing storage of greases and lubricant oils for maintenance purposes in minor volumes.

A 400,000 litre capacity, steel, above ground water tank is present in the south of the Site providing process water for the hydrogen plant. Two effluent tanks are present on-site to the north and southwest with a 19,000 litre and 35,000 litre capacity respectively. In the east of the Site a liquid nitrogen tank is present adjacent to the hydrogen plant. Other above ground storage tanks recorded during the site walkover were for the storage of acids and alkalis (no storage of liquid hydrocarbons) mainly used for water treatment purposes; details of storage is further discussed in Section 2.6. Staff have received training for emergency spillage response procedures and spill response kits are available on-site. Regular site checks and inspections are carried out as normal practice.

The Site had approximately 50% of its area hard surfaced with concrete surrounding areas of key contaminant storage (i.e., beneath above ground storage tanks, refilling areas, maintenance areas, roads and pathways). Both refilling areas had spillage containment catchpits which are vacuum tanker uplifted in the event of a spillage. In general, the concrete was observed to be in good condition with very little localised cracking and no obvious staining. The remainder of the Site was gravel surfaced.

Four transformers and two electric substations were recorded during the site walkover all located south of the control room building. A septic tank is located adjacent to the substation.

Key site features noted in the walkover are presented in Drawing 01 and photographs from the walkover survey highlighting these features are presented as Appendix 03.

## 2.3 Drainage

Slotted gullies and pots are present in localised areas surrounding above ground storage tanks (ASTs) for spillage containment purposes and emptied as required via vacuum tanker uplift. Foul water is directed to a septic tank adjacent to the control room which is emptied regularly by Veolia. Effluent from the Site is stored in two above ground tanks (35000 litre & 19,000 litre) treated on-site to certain limits as stated in Table 2-2, before being discharged off-site to the east (via a culverted pipe) towards an effluent facility at the SABIC North Tees Site.

**Table 2-2: Trade Effluent Discharge Limits for the Site**

Description	Discharge Limit
pH	6 to 8 pH units
Temperature	<30°C

## 2.4 Waste Facilities

An area for general waste and recycling comprising wheelie bins is present in the east of the Site. During the walkover, temporary storage of waste catalysts (awaiting transport for disposal) was on the land in the west of the Site. The catalysts were contained inside sealed drums on an area of hardstanding.

## 2.5 Asbestos Surveys

No asbestos surveys were made available on-site during the site walkover survey; however, the main factory building was constructed circa 2001, following the banning of asbestos in the UK in 1999 and as such the likelihood of asbestos being used in its construction is considered low.

## 2.6 Substances Stored at the Installation

The hazardous and non-hazardous components of raw and auxiliary materials which are used at the Site are identified in Table 2-3. There will be additional chemicals stored at the proposed CO<sup>2</sup> plant and are therefore included in Table 2-4.

The substances identified in Table 2-3 and Table 2-4 are considered in the context of the Site to determine whether circumstances exist which may result in the release of the substance in sufficient quantities to represent a pollution risk, either as a result of a single emission or as a result of accumulation from multiple emissions.

**Table 2-3: List of Substances stored at the Installation**

Substance	Capacity (litres)	Storage
<b>Hydrochloric acid</b>	1,500 & 4,000	Plastic bunded above ground storage tanks.
<b>Sodium metabisulphite (Amersite)</b>	1,500	Plastic bunded above ground storage tank.
<b>Sulphuric acid</b>	1,500	Plastic bunded above ground storage tanks.

Substance	Capacity (litres)	Storage
<b>Sodium hypochlorite</b>	1,500	Plastic banded above ground storage tank.
<b>Ammonia</b>	1,500	Plastic banded above ground storage tank.
<b>Drewphos</b>	2,500	Plastic banded above ground storage tank.
<b>Caustic soda liquor</b>	3,000	Plastic banded above ground storage tank.
<b>Liquid Nitrogen</b>	3,080	Steel above ground storage tank.
<b>Lubricating oils and greases for maintenance</b>	<200	Oil drums and smaller containers inside a banded chemical store.

**Table 2-4: List of Substances potentially to be Stored at the Installation**

Substance	Capacity (litres)	Storage
<b>Sulphuric acid</b>	1,500	Plastic banded above ground storage tanks.
<b>Sodium hypochlorite</b>	1,500	Plastic banded above ground storage tank.
<b>Ammonia</b>	1,000	Closed system.
<b>Amine</b>	30,000	Plastic banded above ground storage tank. External bund has a 60m <sup>3</sup> capacity.
<b>Cooling tower inhibitor (Performax PM 3610)</b>	750	Plastic banded above ground storage tank.
<b>Liquid CO<sub>2</sub></b>	1,200,000	Steel above ground storage tanks.
<b>Compressor oil</b>	650	Plastic banded above ground storage tank and storage pit. External bund has a 5m <sup>3</sup> capacity.

## 2.7 Environmental Controls

The possibility of any significant releases to the ground occurring is limited. Hardstanding is present in all chemical storage and refilling areas and spillage containment surrounds both refilling areas. Sufficient capacity for containment of any liquid chemicals is available in the event of a release. The acids and alkalis are stored in internally bunded above ground tanks, and the majority of these are less than 3,000 litres volume. Minor volumes (less than 1,000 litres total) of oils and greases are stored in bunded drums and tanks. Any minor spillages that do occur will be dealt with immediately by trained staff using appropriate spill kits located in convenient locations on-site.

All process effluent is collected, treated on-site to specific temperatures and pH values and discharged via a culvert to the North Tees Sabic waste water treatment facility.

All waste storage bins are located on areas of hardstanding to eliminate potential pathways to soil and groundwater.

The nature of the site activities and the environmental control measures that are in place mean that the potential for contaminants to impact soil and groundwater in the future is considered to be low.

Therefore, use as of the Site as a hydrogen production facility is unlikely to have a significant detrimental effect on the environmental condition of the Site as long as the appropriate environmental management systems continue to be implemented and the site containment systems are maintained.

## 3.0 Condition of the Land

### 3.1 Environmental Setting

Table 3-1 below provides a summary of the environmental setting based on a review of published information.

**Table 3-1: Environmental Setting**

Detail	Description	
Geography and Hydrology	Topography and gradient	The Site is generally flat lying with the local surrounding area having a topographic fall to the west of around 4%.
	Elevation	Approximately 5m to 9m above Ordnance Datum.
	Surface waters	A lagoon is located approximately 100m west of the Site with a reclamation pond located directly beyond. The reclamation pond feeds into a stream which outfalls into the River Tees located approximately 0.87km to the southeast.
	Surface water abstractions	No active surface water abstractions within 2km of the Site.
	Regional Hydrogeology	The regional hydraulic gradient is expected to flow to the southeast, towards the River Tees. However, groundwater beneath the Site may be locally influenced towards the west due to the presence of the lagoon and reclamation pond.
Published Geology and Hydrogeology	Superficial drift geology	Tidal Flat Deposits (clays, silts and sands).
	Solid geology	Mercia Mudstone Group (mudstone, siltstone and sandstone).
	Aquifer status	Superficial: Secondary (undifferentiated) aquifer. Solid: Secondary B aquifer.
	Groundwater abstractions	There is one active groundwater abstraction located 15m west of the Site (licence No. 1/25/04/164). Groundwater is extracted from eight boreholes as part of a contamination containment system licensed for 1500m <sup>3</sup> per day. These are boreholes historically drilled in 1996, commissioned by ICI (previous North Tees Site owners) as part of protection measures for the reclamation pond due to a known pathway for hydrocarbon contaminants to reach the surface water receptor via the groundwater.
	Source protection zones (SPZ)	None within 1km of the Site.



## 3.2 Environmental Searches

The EA website has been consulted regarding groundwater abstractions, SPZ and former landfill sites. The EnviroInsight Report was also reviewed to gain information on publicly available environmental data for the Site and immediately surrounding area.

A copy of the EnviroInsight Report information obtained by SLR is contained in Appendix 02 and a summary of the search information is provided below:

- *Records of IPC/IPPC Authorisations* – There are 38 historical records of Integrated Pollution Control activities which are all recorded approximately 300m east of the Site. However, these are indicated to pertain to the historic Cumene plant which was situated within the northern area of the Site and to the Aromatics plant immediately east of the Site. These records relate to petroleum processes, petrochemical processes and the manufacturing and use of organic chemicals.
- *List 1 dangerous substances inventory sites* - There is one record relating to the Huntsman Petrochemicals UK Ltd (TS2 1TT) located approximately 290m east for the storage of cadmium and mercury.
- *Records of Part A(2) Activities and enforcements* – There are four records of Part A(1) installations within 90m southeast of the Site at SABIC Petrochemicals UK Limited which pertains to a licence (Permit No. EPR/LP3335RM) for a storage of fuel.
- *Discharge consents* – there is one historic licenced discharge consent located approximately 125m east of the Site and relates to the discharge of sewage and trade combine (unspecified) from an ammonia storage area to the River Tees.
- *Landfill sites/waste sites/licenced waste sites* – There is one historical landfill site located 223m northwest of the Site. The landfill was under operation by Cleveland County Council (Ref. CLE/R4/1, 0700/R4,CLE/170/1) between 1973 and 1978 and accepted inert, industrial and commercial wastes. There is one historical waste site located approximately 240m west of the Site, which acted as an energy from waste site last recorded May 2015. There is also a historic licensed waste site (Reclamation Ponds Site) located approximately 300m south of the Site which acted as a physical treatment facility last recorded March 2012.
- *Industrial land uses* – A total of 45 industrial sites are recorded within 500m of the Site; the Site itself has two records of historical industrial land uses including an oil refinery and steelworks. Others industrial land use records are located east of the Site. Other records within 50m of the Site include railway sidings and unspecified tanks.
- *Mining Records* – There are no records of mining within 500m of the Site; however, there are five records of surface ground workings reported. One record relates to a water body on-site dated 1955. Further records include surface ground workings at a pond located approximately 20m west and a reservoir located 190m east, dated 1988 to 1992.
- *Sensitive Land Uses* – The Site is located approximately 770m west at its closest point to a designated Site of Specific Scientific Interest (SSSI) and is located within the SSSI impact risk zone relating to the Teesmouth and Cleveland coast.
- *Historical railway and tunnel features* – Eight records pertain to railway sidings located approximately 20m east of the Site.

The environmental data searches indicate that the Site, is located within an area of historical industrial activity with various potential off-site contamination sources in the immediate vicinity, indicating that the environmental condition of the Site and surrounding areas is likely to have been impacted prior to the commencement of the current site operations.

## 3.3 Potential Pollution History

### 3.3.1 Site History

The age and general type of activity and land use can often be determined from the type and layout of structures depicted on OS maps. However, specific elements of site operations cannot normally be determined from such extracts. Large scale (1:2,500/1:1,250) and small scale (1:10,560/1:10,000) historical map extracts were reviewed for selected years between 1855 and 2021, together with current mapping. Ariel photography from google maps was also reviewed.

A summary of the findings is given below, and copies of the OS maps provided by GroundSure are included in Appendix 01.

#### On-site

The earliest mapping available (1855) shows the majority of the Site to be tidal flats forming part of the Tees estuary. By the 1940s the Site is indicated to comprise partially reclaimed land forming an embankment for a pond which extends off-site to the west. By the early 1980s the whole site area is formed of reclaimed land and two unspecified small buildings are located on-site, likely forming part of the North Tees Works (noted as an oil refinery). By the early 2000s the central area of the Site depicts the early layout hydrogen plant; the southern area of the Site remained undeveloped and the northern area (separated from the hydrogen plant by a road) is indicated to be developed with tanks and chimneys which are likely associated with the historical Cumene plant present in this area.

Site features and detail of the surrounding land cannot be depicted from the more recent OS mapping layers although ariel photography indicates that the surrounding industrial plants including the Cumene and Aromatics plants to the east, northeast and north were being closed down and demolished from around 2016 and 2019 respectively.

#### Off-site

The surrounding land also forms an area of reclaimed land from the Tees estuary. Between the 1960s and 1980s major developments are depicted in mapping to the east of the Site, through the development of the North Tees Site (noted as an oil refinery). An Aromatics plant was constructed by the 1980s immediately adjacent to the east of the Site. A Cumene plant was also constructed partially on-site extending off-site to the north and northeast. Many structures are indicated including tanks, chimneys and flare stacks in close vicinity to the Site. During the reclamation of land for industrial use the reclamation pond to the west has decreased in size. The most recent mapping from 2021 depicts further Industrial development 200m southwest of the Site, south of the reclamation pond.

The historical site uses and potentially contaminative uses in the vicinity of the Site are summarised in Table 3-2 below.

**Table 3-2: Historical Site Uses and Potential Sources of Contamination**

Detail	On-Site	Off-Site
Historical Site Uses	<ul style="list-style-type: none"> <li>Reclaimed land / made ground</li> <li>Laydown area during maintenance turnarounds for the North Tees Site.</li> <li>Hydrogen production facility</li> </ul>	<ul style="list-style-type: none"> <li>Reclaimed land / made ground</li> <li>Oil refinery</li> <li>Cumene Plant</li> <li>Aromatic plant</li> </ul>

Detail	On-Site	Off-Site
Potential Contaminants of Concern	<ul style="list-style-type: none"> <li>Metals</li> <li>Phenols</li> <li>Asbestos</li> <li>Lubricating oils and greases</li> <li>Water soluble inorganic chemicals (acids, alkalis and ammonia)</li> <li>Polychlorinated Biphenyls (PCBs)</li> </ul>	<ul style="list-style-type: none"> <li>Metals</li> <li>Petroleum hydrocarbons</li> <li>Phenols</li> <li>Asbestos</li> </ul>

### 3.3.2 Pollution Incidents

There are no historical pollution incidents recorded by the EA within 500m of the Site. There are no records of significant releases or spills on-site since the start of operations in 2001.

### 3.3.3 Site Observations

There was no visual/olfactory evidence of existing contamination recorded during the site walkover survey and the existing pollution prevention measures were observed to be in serviceable condition.

## 3.4 Previous Environmental Investigations

The Site has been subject to a number of phases of investigation and assessment. The relevant reports are listed at Table 3-3 and summarised below.

**Table 3-3**  
**Previous Site Assessments**

Ref	Date	Document Title and Author
1	November 2000	Ian Farmer Associates: Ground Investigation Ref: 1579
2	April 2016	SOLMEK: Phase 2 Site Investigation Report Ref: S160220
3	June 2021	SOLMEK: Phase 2 Site Investigation Report Ref: S210402

The key findings from the previous investigations are summarised below:

- The Site was historically part of the Tees estuary until the 1940s when the Site and surrounding land was reclaimed using hydraulic placement of sand deposits, bound with a layer of historical waste slag (potentially from steelworks in the area).
- Known historic uses of the Site include being former land as part of the North Tees Works (oil refinery) and a Cumene plant in the northern area.
- The most recent use of the Site is a hydrogen plant, operational since 2001. Expansion of the Site southwards occurred in 2016 and development included an electricity substation and transformers, a steam condensate system and demineralisation plant. The Cumene plant was recently demolished in the late 2010s.

- The Site has ground conditions comprising up to 5.7m of made ground overly possibly reclaimed material of silty sands extending to a maximum of 13.3m depth. Tidal flat deposits comprising clays were encountered beneath the sand deposits to a maximum of 17.5m overlying bedrock of the Mercia Mudstone Group from a minimum depth of 13.7m. The bedrock generally comprised weak to medium strong silty mudstone; and the base was not proven at the maximum drill depths of 25.5m.
- Groundwater was encountered at depths of approximately 2.4m and 3.6m below ground level (bgl) within the Made Ground.
- Baseline investigations were undertaken by Ian Farmer Associates in 2000 prior to the hydrogen facilities construction.
- Ten boreholes (BH1 to BH10) were drilled to a maximum depth of 18.3m. BH1 and BH4 were installed with piezometers and BH9 and BH10 were installed as monitoring wells (no longer present).
- Elevated concentrations of Petroleum Hydrocarbons, Toulene, Sulphate and Sulphide were recorded in the Made Ground soils particularly across the water table; concentrations generally improved with depth. Groundwater samples recorded highly elevated concentrations of dissolved phase BTEX<sup>1</sup> compounds and elevated Sulphate and Sulphur. The greatest concentrations of hydrocarbons were detected in BH7 and BH8 to the west of the Site. Soils and groundwater indicated alkaline pH levels and also a high salinity consistent with seawater.
- The baseline report concluded that the concentrations of hydrocarbons and other inorganic contaminants were likely related to the historically placed made ground and indicative of background concentrations in the heavily industrialised land and that although a pathway exists to the reclamation pond to the west and possibly to the estuary the contaminants recorded were unlikely to present an unacceptable risk to human health or controlled waters based on continued industrial use of the Site.
- Prior to development of the Site two further investigations were completed by SOLMEK in 2016 and 2021 predominantly to assess ground conditions beneath the Site and provide geotechnical guidance on building foundation design.

---

<sup>1</sup> Benzene, toluene, ethylbenzene & xylenes

## 4.0 Permitted Activities

### 4.1 Permitted Activities

All on-site activities are covered by the Environmental Permit, from reception through to treatment and off-site removal. The permitted activity, as detailed in Schedule 1, Section 4.2, Part A (1)(a)(i) of the Environmental Permitting (England & Wales) Regulations 2007, is:

- Gas treatment, reformation using a catalytic steam reformer, steam raising and all associated activities at a capacity of 32ktpa.

### 4.2 Directly Associated Activities

There will be no directly associated activities to be undertaken at the hydrogen production facility. Should any exempt activities be proposed, the relevant forms will be completed and sent to the Environment Agency.

## 5.0 CONCEPTUAL MODEL AND QUALITATIVE RISK ASSESSMENT

### 5.1 Site Conceptual Model – Land Quality

As part of the evaluation of the Site and in accordance with current UK best practice, the Site has been considered in terms of a Conceptual Site Model using the principles of a risk assessment comprising the potential *Source – Pathway – Receptor* model of potential pollutant linkages.

### 5.2 Contamination Sources

#### 5.2.1 Potential Contamination relating to current site operations

Based on the results of the site walkover, the primary potential sources of contamination comprise:

- Chemical storage (acids, alkalis and ammonia for water treatment and dosing)
- Lubricants oils and grease (for maintenance purposes and compressors)
- Catalysts (containing heavy metals)
- Septic tank
- Electricity sub-stations (unlikely to contain PCBs)

Details of the potential chemical contaminants used/present in each of the above are detailed in the Table 2-3 and 3-2.

#### 5.2.2 Identified Historical Contamination

The baseline investigation undertaken prior to the construction of the hydrogen plant and grant of the environmental permit in 2000 indicated historical contamination predominantly located within the Made Ground and shallow perched groundwater. The contaminants include heavy metals, sulphides, sulphate, hydrocarbons and BTEX compounds; soils and groundwater also had elevated pH levels (alkaline conditions) and groundwater salinity indicated similar values to seawater. The greatest concentrations were indicated between 3m to 4m and generally improved with depth. Contaminants are likely associated with the Made Ground used in the historical reclamation of the land and also the historical industrial use of the Site and the surrounding land since at least the 1960s as part of the North Tees oil refinery.

### 5.3 Pathways

#### 5.3.1 Airborne Pathways

All areas of the current Site where the primary potential sources of contamination are stored, used for main processes and maintenance are covered with hard standing. The remainder of the Site is covered with gravel-surfacing. It is anticipated that a similar approach will be undertaken for the proposed development area in the north of the Site. Therefore, dust generation and particulate inhalation is unlikely to be a potentially active pathway during normal operations at the Site.

Any additional risks associated with excavations or groundworks can be mitigated by appropriate risk control measures including personal protective equipment and standard dust suppression techniques.

#### 5.3.2 Direct Contact, Ingestion and Inhalation Exposure Pathways

All areas of the Site where the primary potential sources of contamination are stored, used for main processes or maintenance are covered with hard standing. The remainder of the Site is covered with gravel-surfacing.

Therefore, potential direct contact with the ground across the majority of the Site is unlikely during normal operations.

Direct contact pathways may be active during construction works that involve breaking ground, although construction health and safety planning and the use of appropriate personal protective equipment (PPE) would be used to mitigate potential risks.

There is potential theoretical pathway for vapours and ground gases to migrate via the underlying granular soils with subsequent permeation into building foundations.

### 5.3.3 Aqueous Migration Pathways

Leaching of potential contaminants in shallow soils is likely to be negligible beneath areas of hard standing (i.e., beneath areas where key potential contaminants are stored, refilled, used and maintained) where infiltration of rainfall is minimal. In unsurfaced areas across the remainder of the Site, infiltration of rainfall will occur and, as such, this pathway is considered to be potentially active.

Vertical and lateral migration of any impacted groundwater through the underlying superficial Tidal Flat Deposits and bedrock aquifer of the Mercia Mudstone Group is likely to be limited due to the predominantly cohesive nature and relatively low permeability of the material encountered. However, due to the presence of perched groundwater recorded within the Made Ground, there is a theoretical potentially active pathway via lateral migration through the Made Ground granular soils.

### 5.3.4 Drainage Pathways

All foul waste is directed to an underground septic tank located south of the offices and control room, which is emptied periodically. Effluent is stored on-site in bunded above ground storage tanks in areas of hardstanding, treated to specific temperature and pH ranges, then discharged via a culverted pipe in the west of the Site to a nearby water treatment facility. Regular maintenance checks are part of the Sites' environmental management plan and staff are trained for the event of a spillage or release. No surface water or foul water drainage is present on-site or in the immediate vicinity and therefore drainage is not considered an active pathway.

## 5.4 Receptors

With reference to Part 2a of the Environmental Protection Act (1990), the potential receptors to be considered in any contaminated land scenario can be summarised as set out below.

### 5.4.1 Human Health

For the purpose of this assessment, it has been assumed that on-site workers and surrounding neighbours will be the primary receptors of concern for any contamination risk during the operational phase of the environmental permit. The Site is in a heavily industrialised area and no residential properties are located within at least 500m of the Site, therefore the Site is of a lower sensitivity.

Construction workers / contractors could also be exposed to contaminants during works involving breaking ground.

### 5.4.2 Eco-systems

The Site is not located within a statutory protected site with the nearest SSSI located over 700m from the Site. The lagoon located approximately 100m west of the Site presents the closest ecological receptor.

### 5.4.3 Controlled Waters

Groundwater is a controlled water. Therefore, the groundwater beneath the Site requires consideration and protection. The Site is underlain by a secondary (undifferentiated) aquifer and secondary B aquifer that are considered to be potential receptors. The relatively low permeability of these potential receptors, high salinity indicative of seawater concentrations, highly industrialised surroundings and historical contamination means the shallow ground water is unlikely to be abstracted in the immediate vicinity of the Site for potable use. The only active groundwater abstraction licence within 1km is located approximately 15m west relating to abstraction as part of a historically developed containment system for the presence of known oily hydrocarbons across the shallow water table and pathway to the reclamation pond. No source protection zones recorded within 1km of the Site. Therefore, the potential risks to groundwater receptors are considered to be low.

Surface water is also a controlled water. There are no surface water features located on-site and the nearest surface water feature is a lagoon located 100m from the Site with a reclamation pond beyond. The pond drains to the southwest via a stream towards the River Tees, located 0.87km from the Site. These nearby receptors are of lower sensitivity due to high saline marine water and the setting within a heavily industrialised area with known historical contamination. All trade effluent is contained above ground in bunded tanks and discharged to the west to a water treatment facility via a culverted pipe (no releases to foul drainage or surface water). Therefore, the potential risks to surface water receptors are considered to be low.

## 5.5 Risk Assessment

A diagrammatic illustration of the conceptual site model, based on the above, is presented in Drawing 03.

Based on the conceptual site model, Table 5-1 presents the plausible pollutant linkages that apply to the current operations at the Site, although baseline investigations have identified historic contamination relating to historic on-site and off-site activities. However, these historic sources of contamination are not associated with the current activities covered by the environmental permit for the Site.

**Table 5-1: Risk Assessment**

Sources / Contaminants of Concern	Potential Pathways	Receptors	Risk / Justification
Hydrogen production facility and associated potential sources as per Section 5.2.1. (2001-present day)  <b>Potential Contaminants of Concern:</b>	Airborne exposure	Human health	<b>Low:</b> Hard standing and gravel surfacing prevents soil dust / particulates across the majority of the Site, with suitable control measures (i.e., PPE and dust suppression) mitigating potential risks during any future construction works. <u>No further assessment required.</u>
	Direct contact	Human health	<b>Low:</b> Hard standing and gravel surfacing prevents direct contact; any future construction works undertaken with H&S planning and PPE. <u>No further assessment required.</u>



Sources / Contaminants of Concern	Potential Pathways	Receptors	Risk / Justification
<p>Acids, alkalis, ammonia and lubricating oil/greases stored within suitable containment measures (i.e., bunded, above ground storage tanks).</p> <p>No records of significant releases since the start of operations in 2001.</p>	Vapour Inhalation	Human health	<p><b>Low:</b> Risks are limited due to the low ground gas potential presented by contaminants stored at the Site and absence of significant releases to the ground since the start of the operations in 2001.</p> <p>Furthermore, the Site is located in a low sensitivity area with industrial surroundings and no residential properties located within 500m.</p> <p><u>No further assessment required.</u></p>
	Aqueous migration	Groundwater	<p><b>Low:</b> The aquifers are of lower sensitivity due to relatively low permeability which will limit the mobility of any dissolved phase impact. There are no source protection zones or potable groundwater abstractions within 1km of the Site. An active groundwater abstraction is located approximately 15m west of the Site via boreholes for the containment of the known historic hydrocarbon contamination and protection of the reclamation pond further west.</p> <p>Furthermore, the Site presents a limited risk due to the modern containment, protection and control measures in place for the storage of liquid contaminants. No significant releases to ground are recorded since the start of operations in 2001.</p> <p><u>No further assessment required.</u></p>
		Surface water	<p><b>Low:</b> The reclamation pond and lagoon located 100m west of the Site are of low sensitivity due to the location within a highly industrialised area with known historical contamination and strong likelihood of high saline groundwater (marine water).</p> <p>Furthermore, the Site presents a limited risk due to the modern containment, protection and control measures in place for the storage of liquid contaminants. No significant releases to ground are recorded since the start of operations in 2001.</p> <p>The Site also has a contained drainage systems with effluent pumped off-site to a water treatment facility for treatment in the east (no releases to the sewers or surface waters).</p> <p><u>No further assessment required.</u></p>

## 5.6 Overall Risk Summary

In general, the land quality risk potential associated with the current hydrogen facility at the Site is considered to be low, primarily as a result of the containment, protection and control measures in place at the Site. There is known historical contamination present, predominantly in the underlying shallow soils and groundwater from historic uses of the site predating the current facilities.

There is no evidence of significant releases at the Site and any potential risks to controlled waters and human receptors are likely to be mitigated further by modern environmental management procedures, spillage containment features (i.e., bunded above ground tanks with spillage containment systems in refilling areas) and a contained drainage system for effluent that is monitored on a regular interval before being discharged to a water treatment facility.

## 6.0 Summary & Conclusions

The findings of the application land quality risk assessment report (LQRA) are summarised in Table 6-1 below:

Table 6-1: Summary

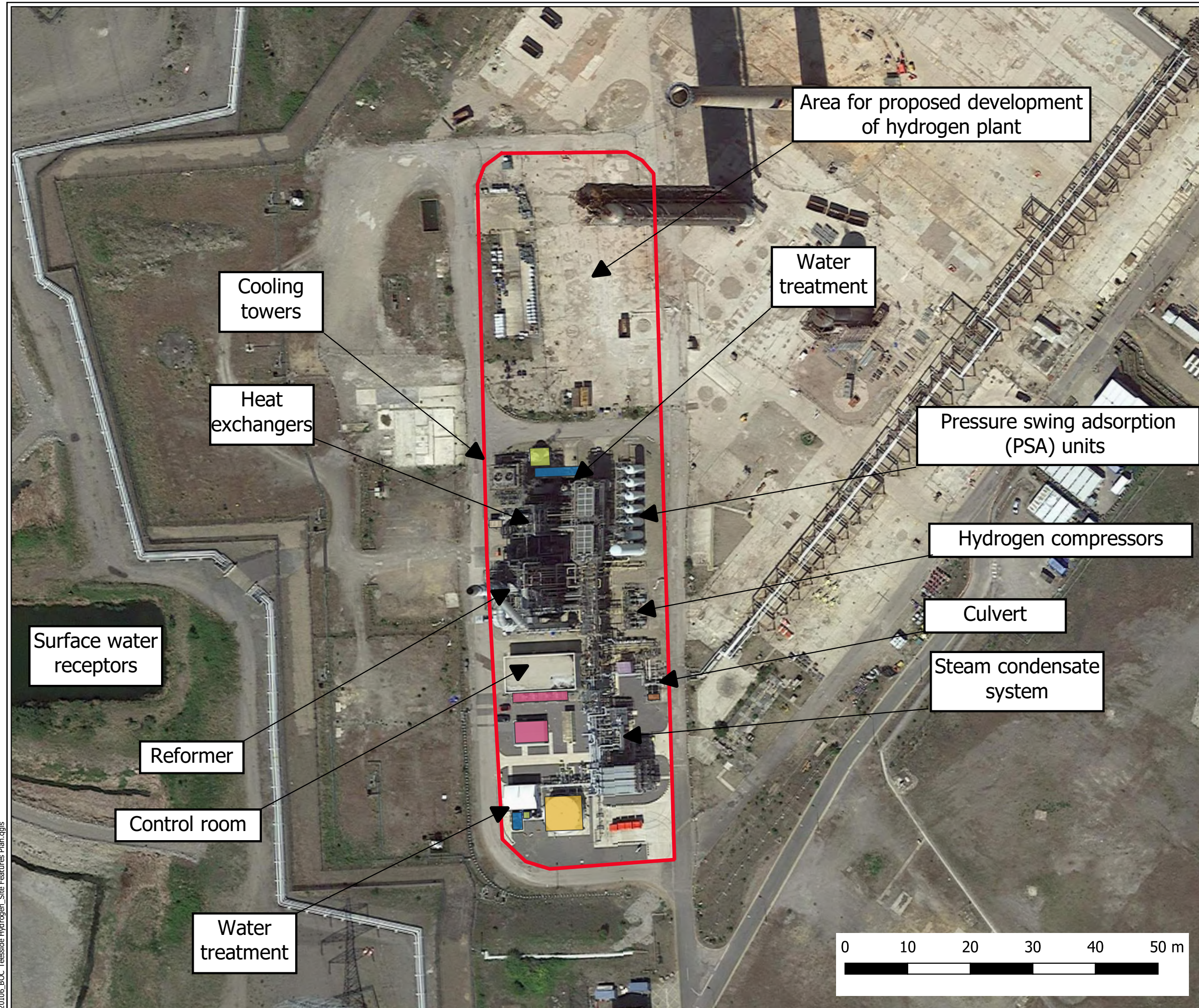
Site Detail	Applicant Name	BOC limited
	Reference	406.05535.00011, dated December 2021
	Activity Address	BOC Hydrogen Plant, Huntsman Drive, SABIC North Tees Site, Port Clarence, Stockton-on-Tees, TS2 1TT.
	National Grid Reference (NGR)	452346, 523314
Environmental Setting	Surrounding Land Use	The surrounding use is Industrial land. The Site forms land leased from the SABIC North Tees Site.
	Topography & gradient	The Site is generally flat lying with the local surrounding area having a gentle topographic fall to the west of around 4%.
	Elevation	Approximately 5m to 9m above Ordnance Datum.
	Geology	Superficial: Tidal Flat Deposits (clays, silts and sands). Bedrock: Mercia Mudstone Group (mudstone, siltstone and sandstone).
	Hydrogeology	The regional hydraulic gradient is expected to flow to the southeast, although groundwater beneath the Site may be locally influenced to the west due to the presence of the lagoon and reclamation pond.  The superficial deposits are classed as a secondary (undifferentiated) aquifer, and the bedrock is classed as a secondary B aquifer.
Surface Waters	A lagoon is located approximately 100m west with a reclamation pond beyond. The River Tees is located approximately 0.87km to the southeast.	
Pollution History	Historical land use	The Site and surrounding land is historically reclaimed land from the Tees estuary; and has been used for heavy industrial use from at least the 1960s with the Site historically forming part of the North Tees oil refinery. Historically a Cumene plant was situated on the northern area of the Site and an Aromatics plant was located immediately adjacent to the west. The historical use of the Site and surrounding land for industrial purposes indicates that the environmental condition of the Site and surrounding areas is likely to have been impacted prior to the commencement of the current site operations. The Hydrogen Production Facility and associated buildings were constructed in 2001.
	Current land use	The Site is a hydrogen production facility currently operational under an environmental permit.  The Site stores a variety of chemicals including acids, alkalis and ammonia (predominantly at low volumes); and minor volumes of lubricant oils and greases (see Table 2-3). Further chemicals to be stored following the construction of the proposed Co <sub>2</sub> plant are provided in Table 2-4. Effluent

		<p>tanks store waste liquids which are treated prior to being discharged to a water treatment facility located to the west of the Site.</p> <p>The Site has a modern environmental management system in place. All key potential contaminants are stored in bunded above ground storage tanks or bunded chemical storage containers with spillage containment systems in place for refilling activities which are vacuum uplifted in the event of a release. All areas where contaminants are handled are underlain by hard surfacing. Staff are trained to deal with emergency response kits in the unlikely event of hardware failure or spillage.</p> <p>The Site has electricity sub-stations and transformers which were built in 2016 although these are unlikely to present a contamination risk (PCBs) due to their construction date.</p> <p>There was no further evidence of existing contamination recorded during the site walkover survey. No significant releases have been recorded since the start of the operational status in 2001.</p>
	Pollution Incidents	There are no historical pollution incidents recorded by the EA within 500m of the Site.
	Evidence of Historic Contamination	<p>The baseline investigation indicated historical contamination located predominantly within the Made Ground soils and shallow perched groundwater. The contaminants include heavy metals, sulphides, sulphate, hydrocarbons and BTEX compounds; soils and groundwater also had elevated pH levels (alkaline conditions). The salinity of groundwater indicated concentrations comparable with seawater. Contaminants are likely associated with the Made Ground, historical industrial use of the Site and the surrounding land.</p>
Permitted Activities and Directly Associated Activities	<p>The Site will be permitted for the following activity:</p> <ul style="list-style-type: none"> <li>Schedule 1, Section 4.2, Part A (1)(a)(i) activity - Gas treatment, reformation using a catalytic steam reformer, steam raising and all associated activities at a capacity of 32ktpa.</li> </ul> <p>There are no directly associated activities associated with the environmental permit.</p>	
Contamination Issues & Risk Assessment	<p>Based on the results of this investigation there is evidence of historical contamination within the Made Ground and shallow groundwater which predates the operational status of the Site.</p> <p>Ground contamination risks presented by the current operational hydrogen production facility are limited. The Site has a low potential for contamination predominantly as a result of containment, protection and control measures in place at the Site. Furthermore, the Site is located within a low sensitivity environmental setting which already presents historical contamination within the shallow soils and groundwater.</p> <p>SLR therefore recommends that due to the low potential of contaminant release to soil and groundwater, the need for regular soil and GWM is not considered necessary. However, a full intrusive investigation to assess ground conditions will be required to support any future surrender of the environmental permit held at the Site.</p>	

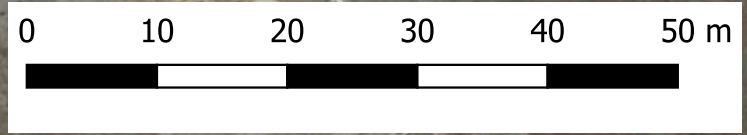
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## DRAWINGS





LEGEND	
	Demineralised water tank
	Nitrogen tank
	Lubricant oil and grease storage areas
	Electricity sub-stations and transformers
	Effluent storage area
	Chemical Storage areas
	Site boundary



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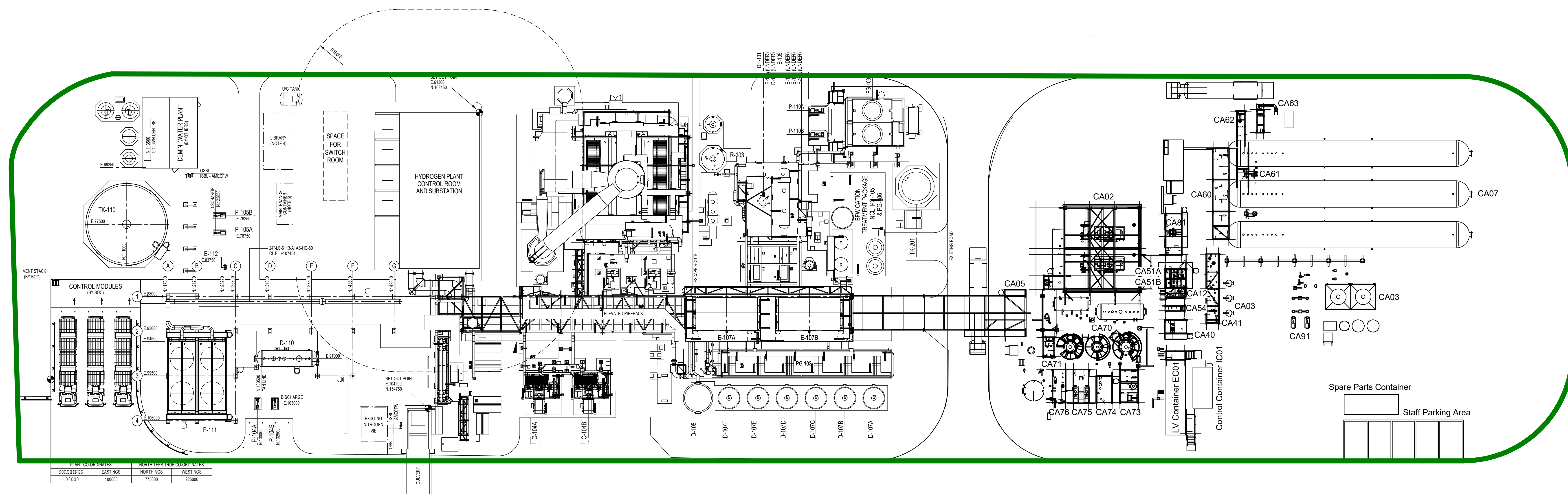
BOC TEESIDE HYDROGEN  
PRELIMINARY LAND QUALITY RISK  
ASSESSMENT  
SITE FEATURES PLAN  
**DRAWING 01**

Scale 1:2000 @ A3	Date JANUARY 2022
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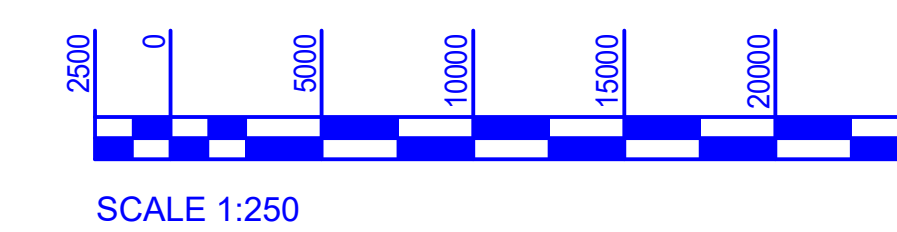
220106\_BOC Teesside Hydrogen\_Site Features Plan.dwg

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, OSM, swisstopo, and the GIS User Community





PLANT COORDINATES		NORTH TEESSIDE COORDINATES	
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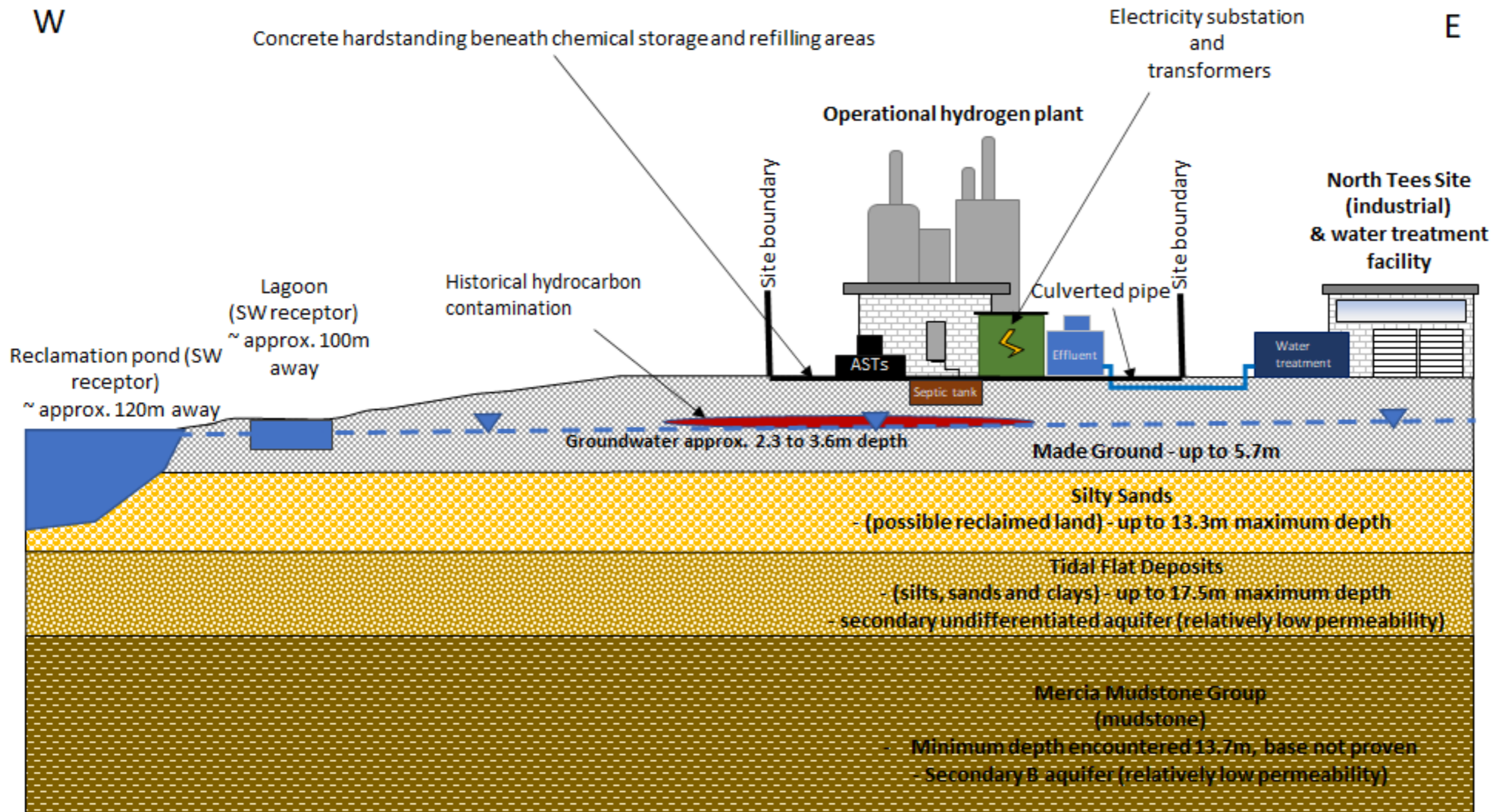


NO.	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
1.0	30.07.2021	E		Kufle	Brunnell	Jamrus	1st Issue

**CO2 CAPTURE, CONCENTRATION, PURIFICATION & LIQUEFACTION PLANT**  
**BOC NORTH TEESSIDE HYDROGEN SITE**

LINDE PROJECT NO: 3710 A1E6 CLIENT PROJECT NO: 045-499 LINDE PROJECT CODE: Teesside 01 CLIENT PROJECT CODE: Teesside Carbon Dioxide	MEMBER OF THE LINDE GROUP BOC

TITLE: **OVERALL PLOT PLAN TEESSIDE EXISTING HYDROGEN AND NEW CO2 LIQ PLANT**  
 SCALE: 1:250    SIZE: A0    DOC NO: &AE L-ZP 1003    SHEET: 1 OF 1



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BOC TEESIDE HYDROGEN  
 PRELIMINARY LAND QUALITY RISK  
 ASSESSMENT  
 CONCEPTUAL SITE MODEL

**DRAWING 03**

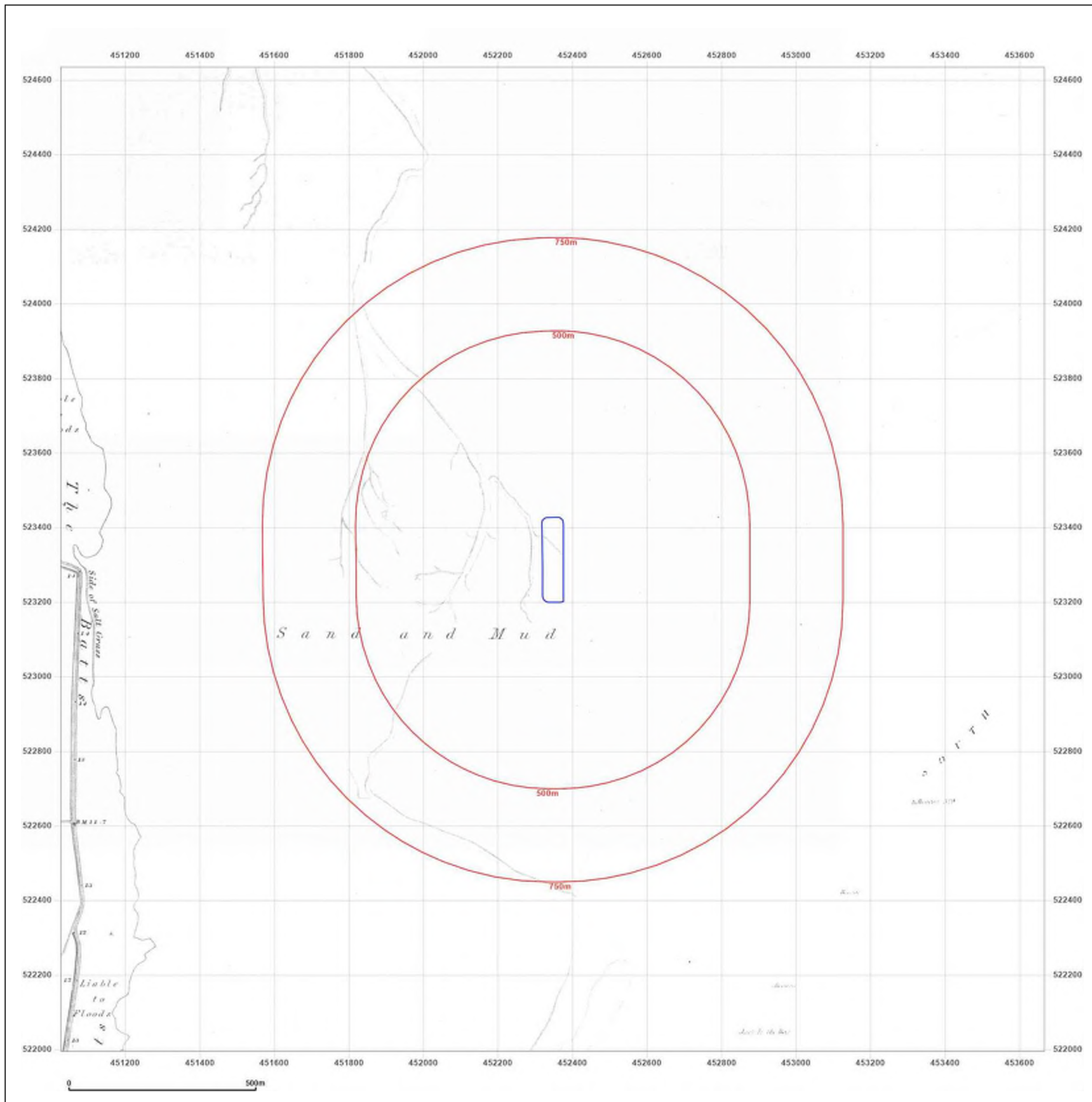
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## APPENDIX 01

### Historical Map Extracts



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**Report Ref:** EMS-744284\_968373  
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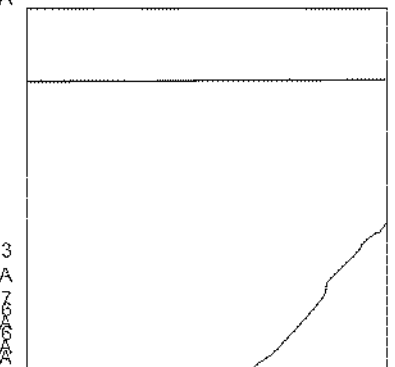
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 Edition N/A  
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 Levelled N/A



Surveyed 1853  
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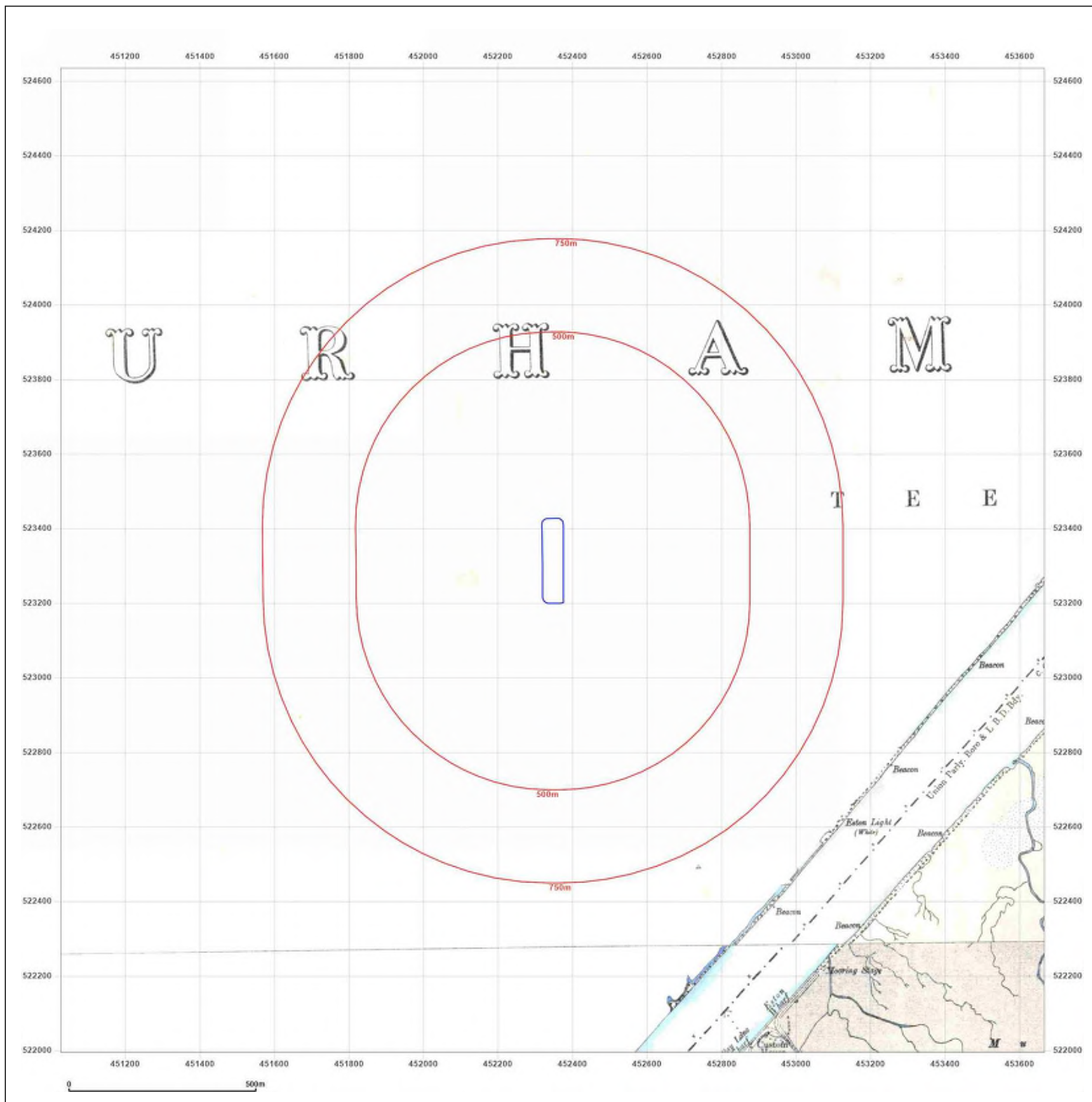
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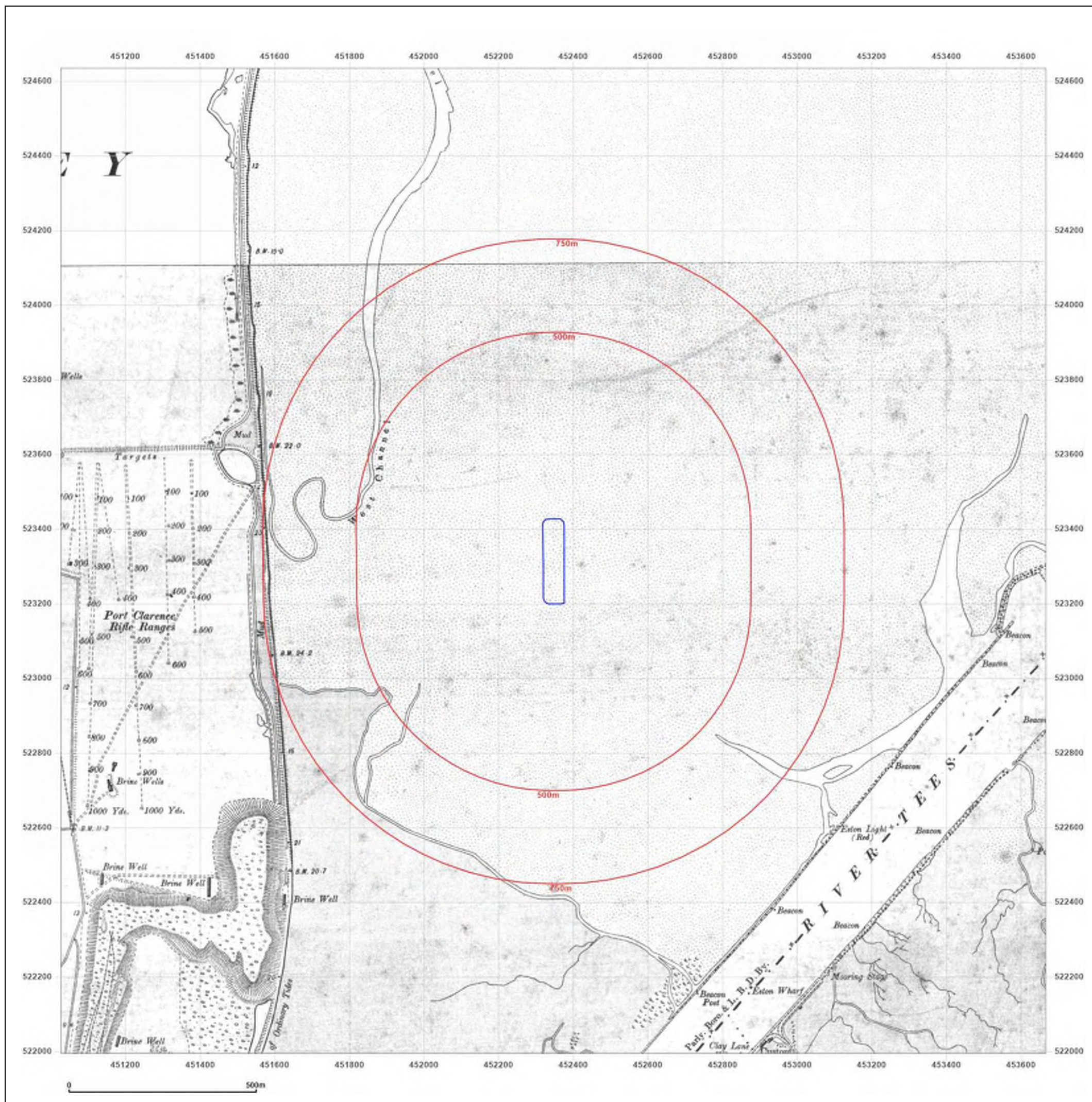


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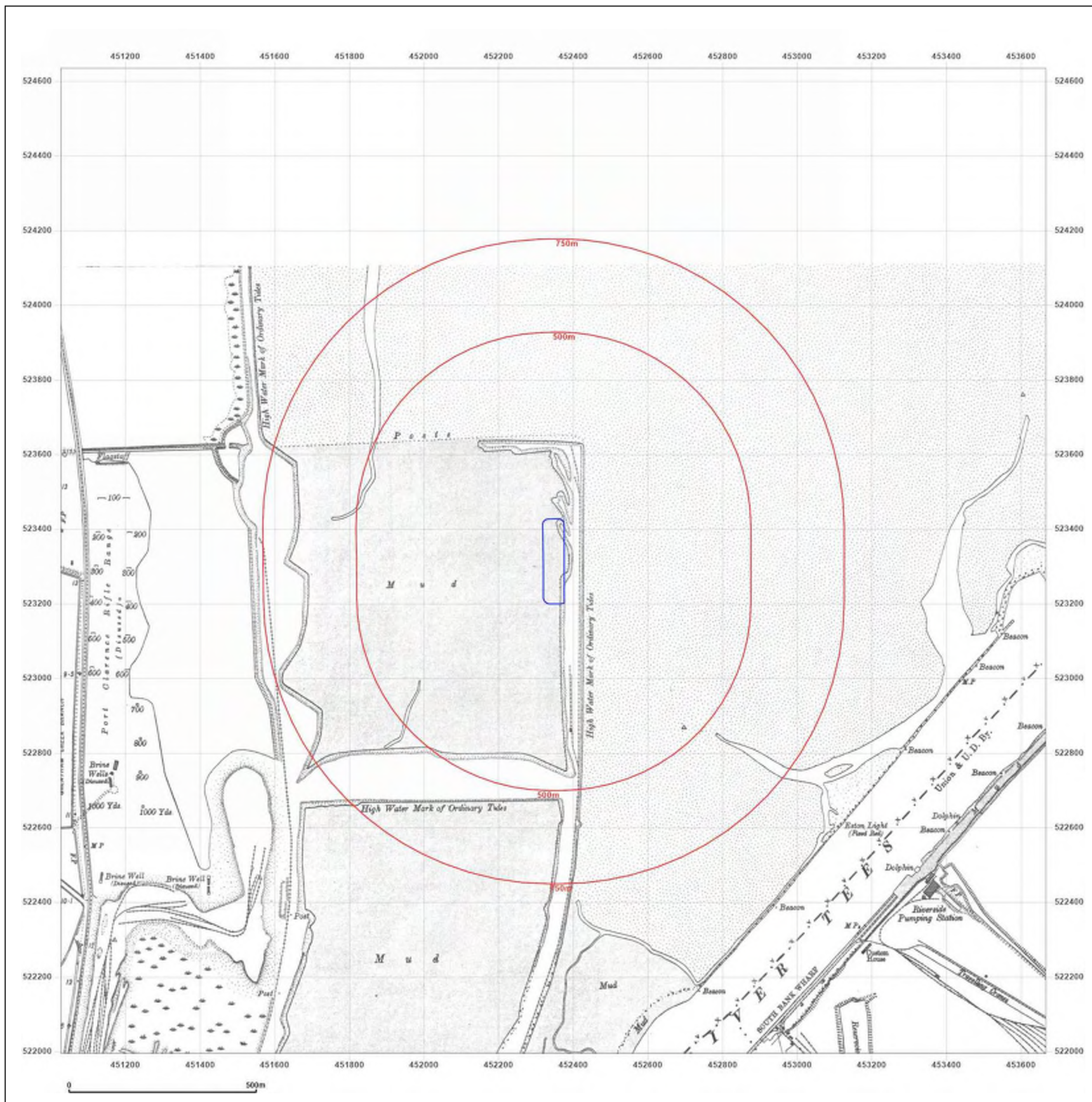


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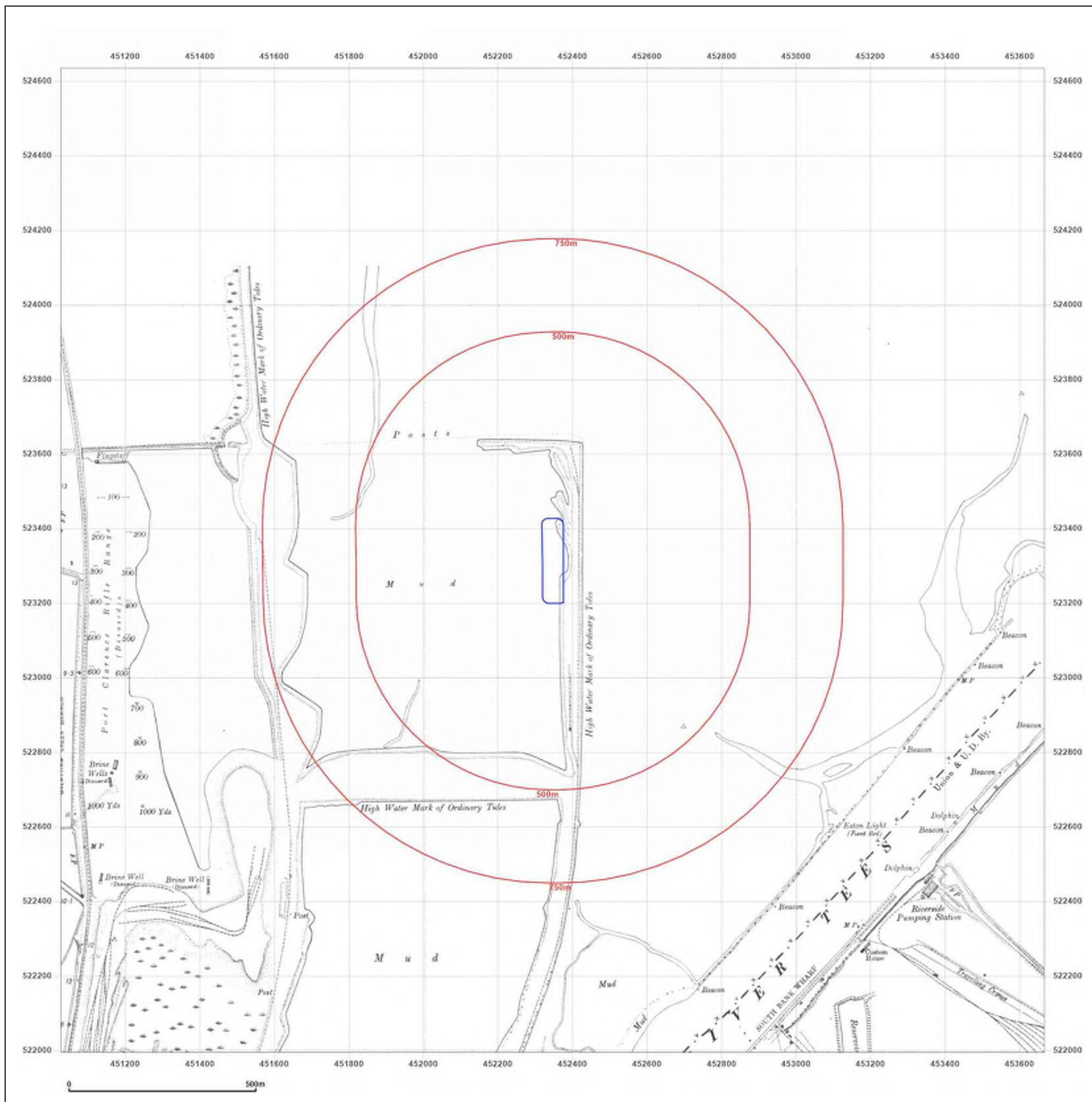


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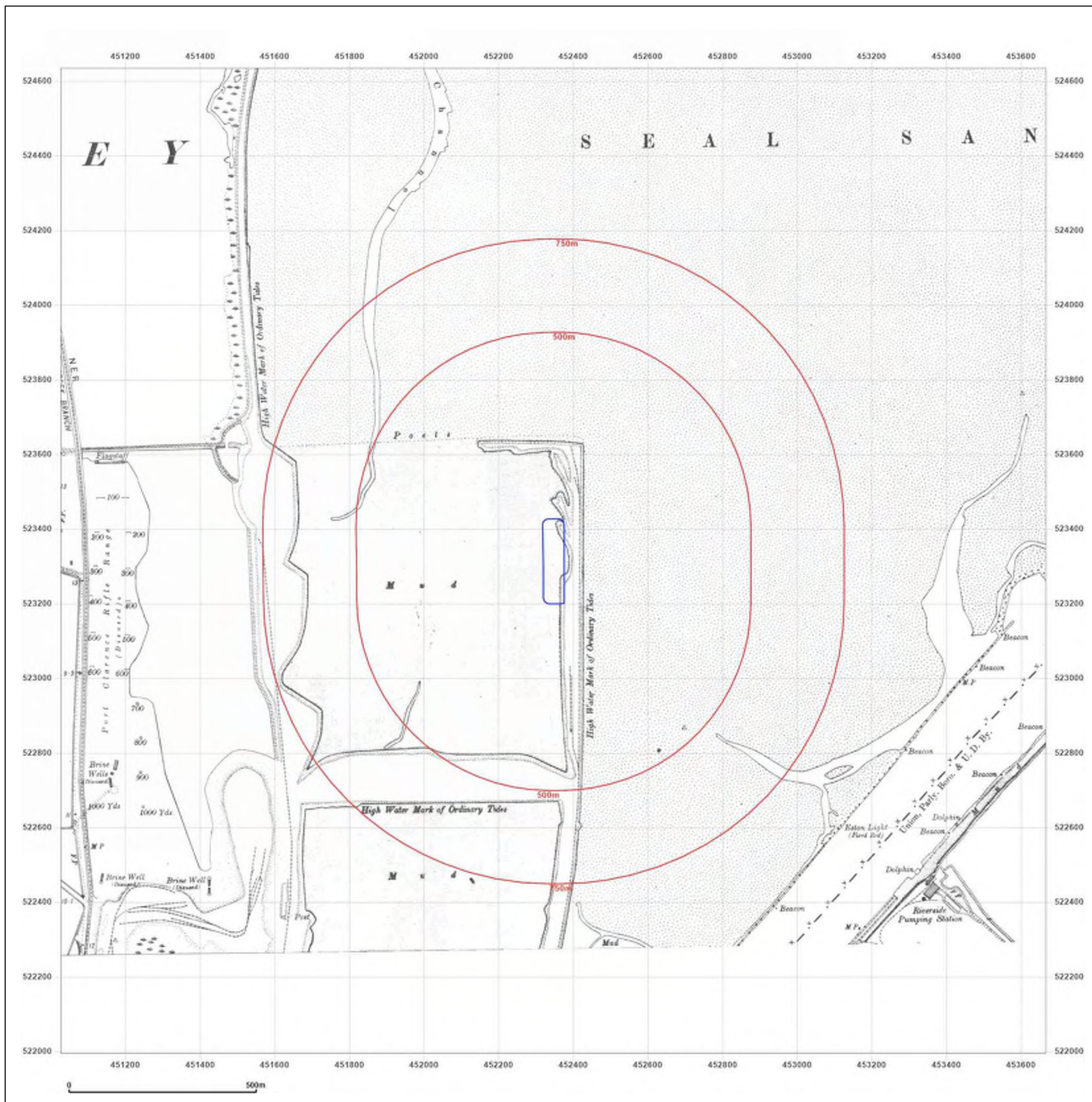


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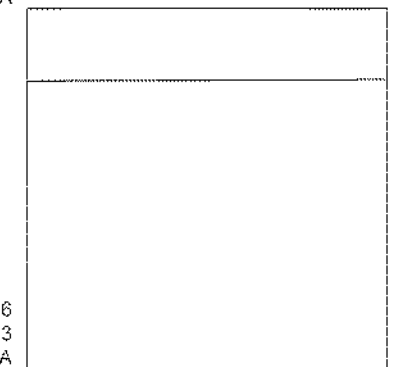
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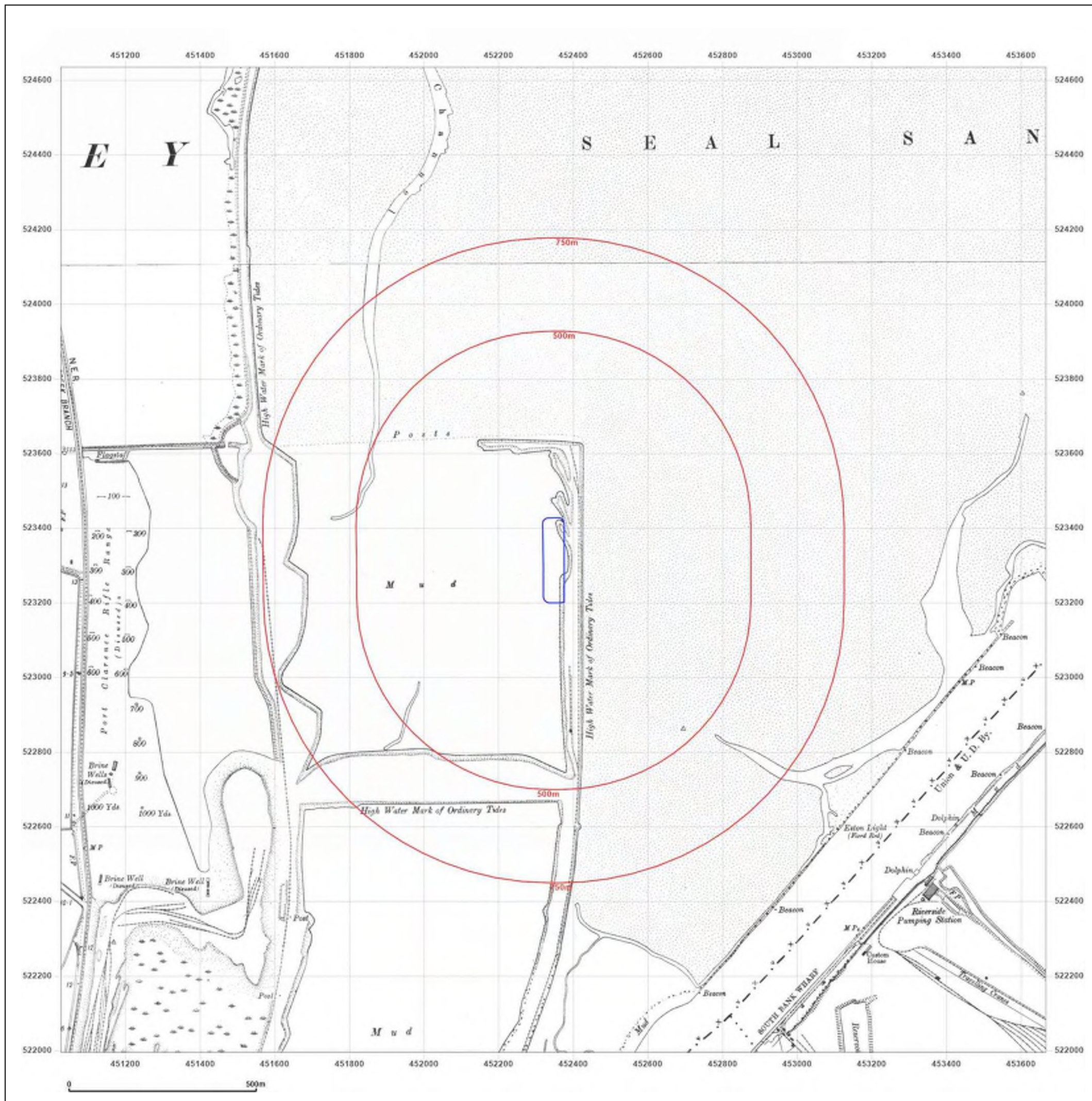
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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1927

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1854  
 Revised 1927  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1853  
 Revised 1927  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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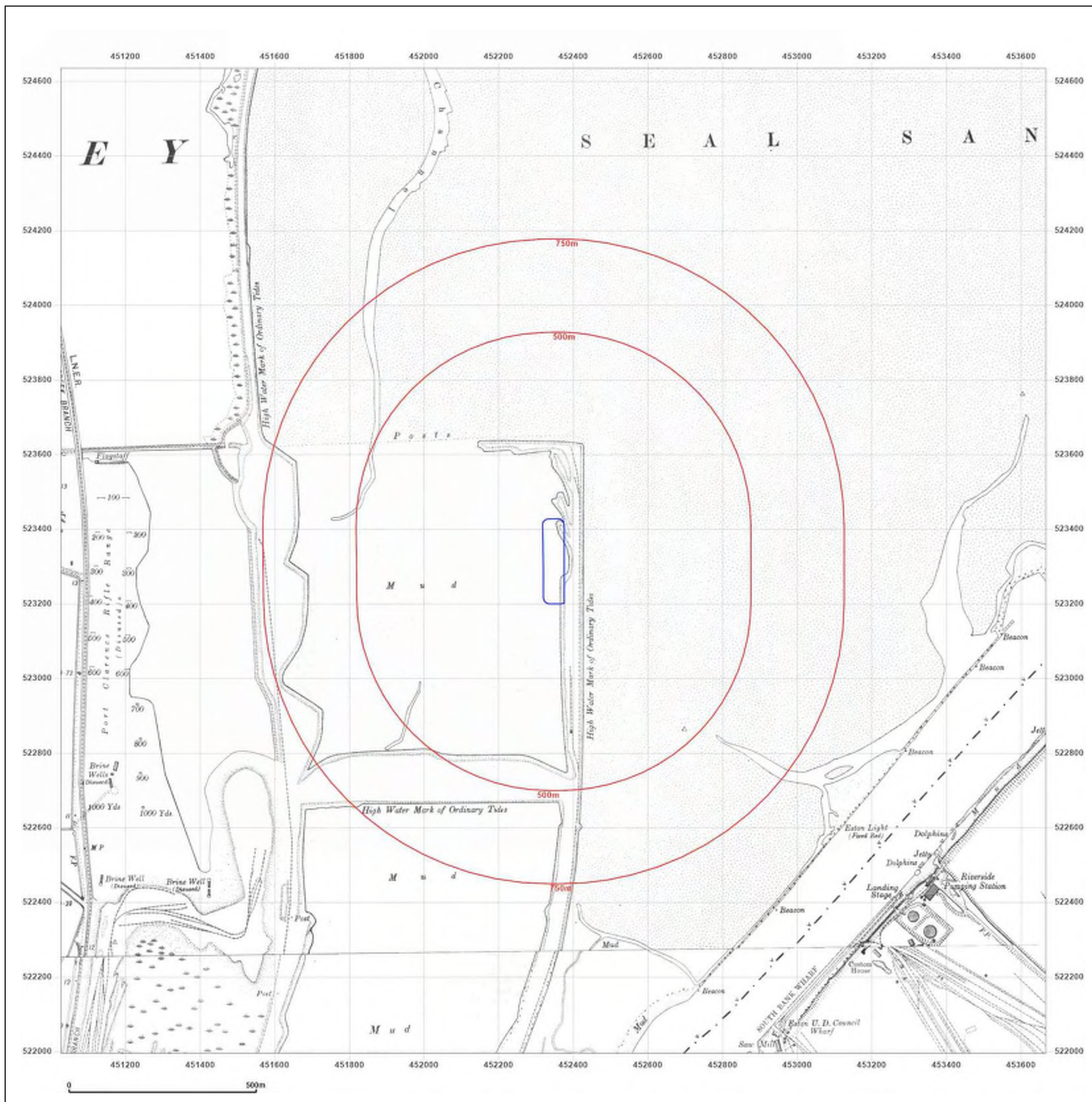


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1950

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1858  
 Revised 1950  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1858  
 Revised 1950  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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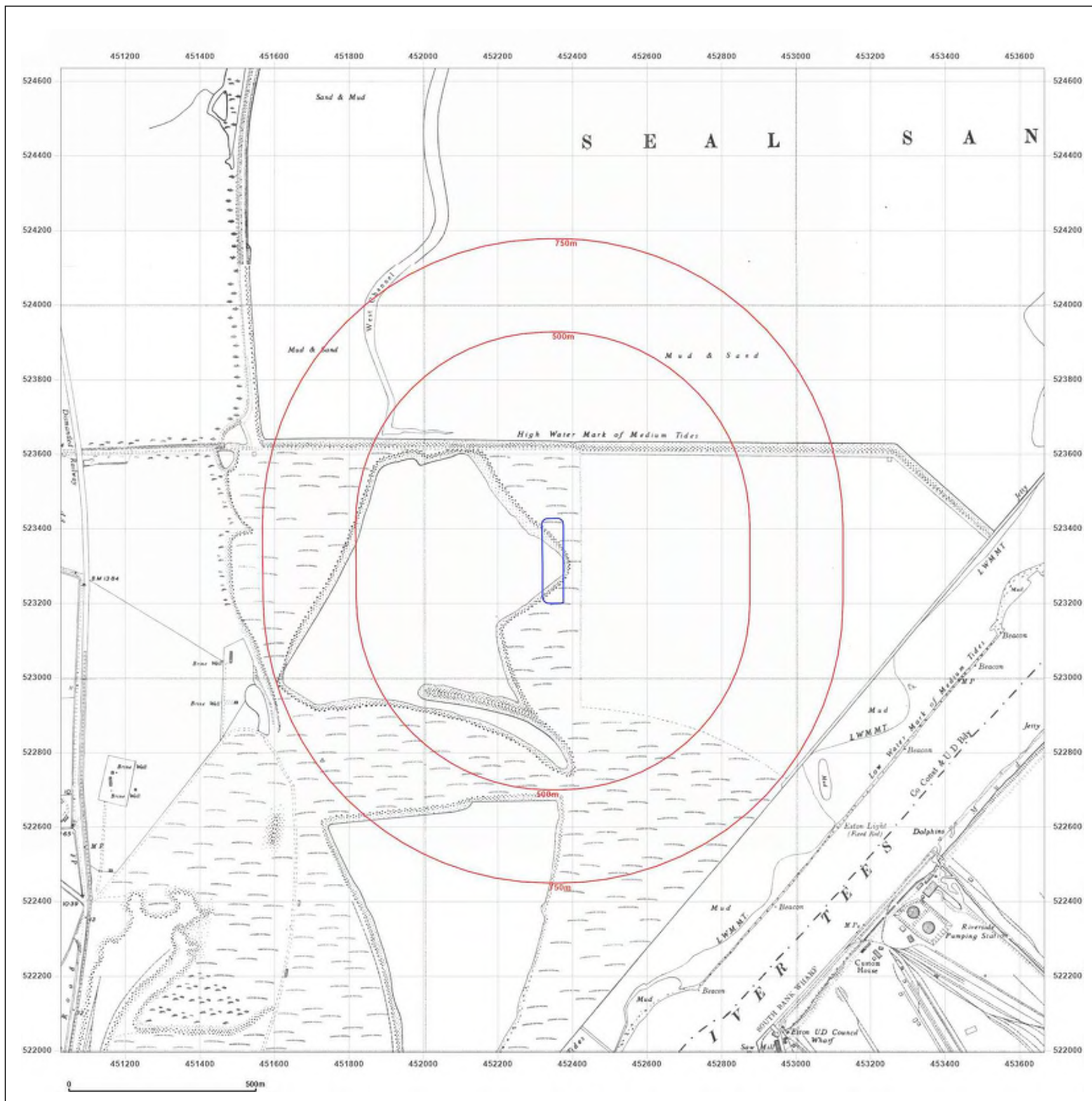


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** Provisional

**Map date:** 1955

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1950  
 Revised 1955  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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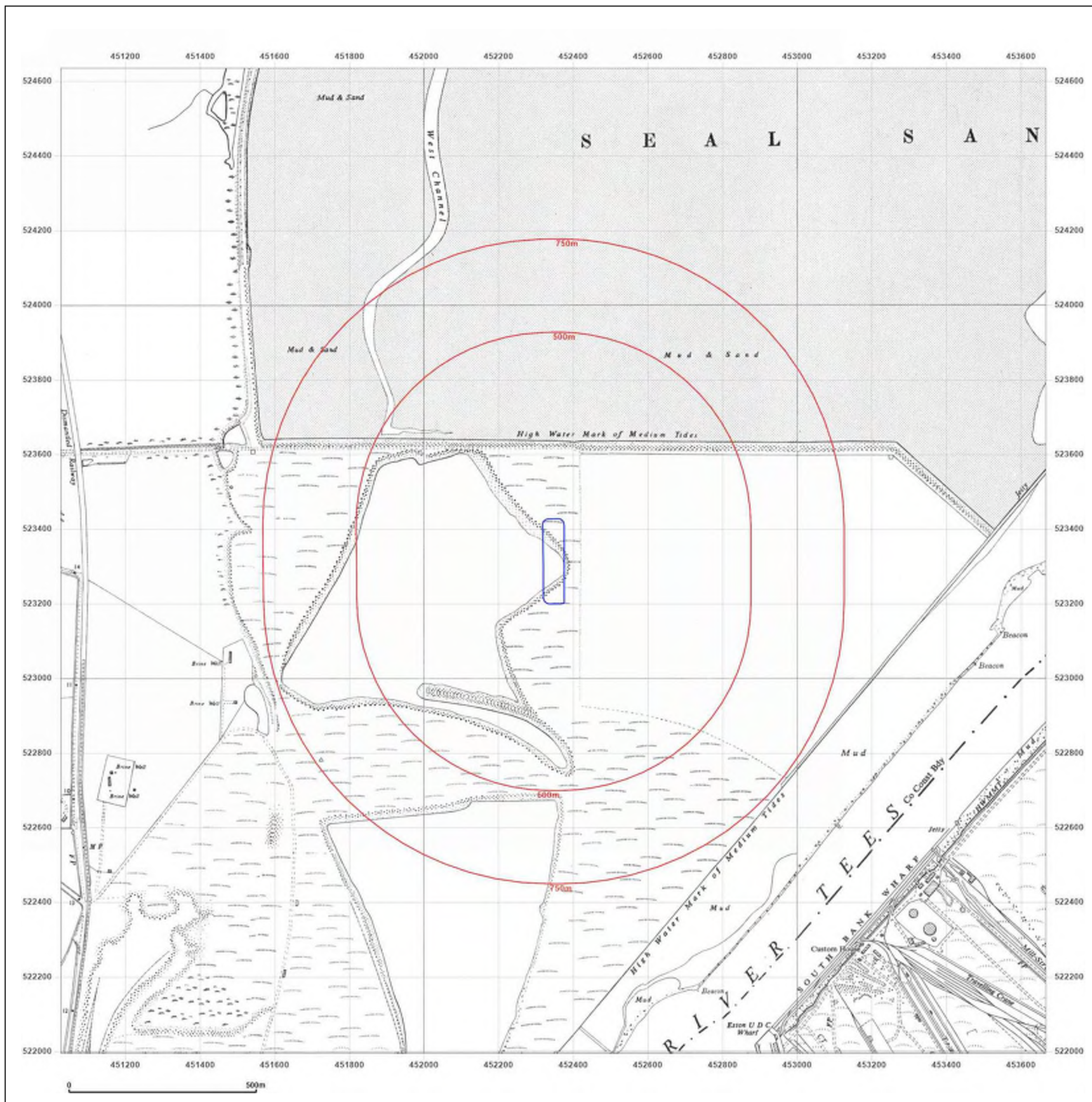


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 1988

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1988  
 Revised 1988  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1986  
 Revised 1992  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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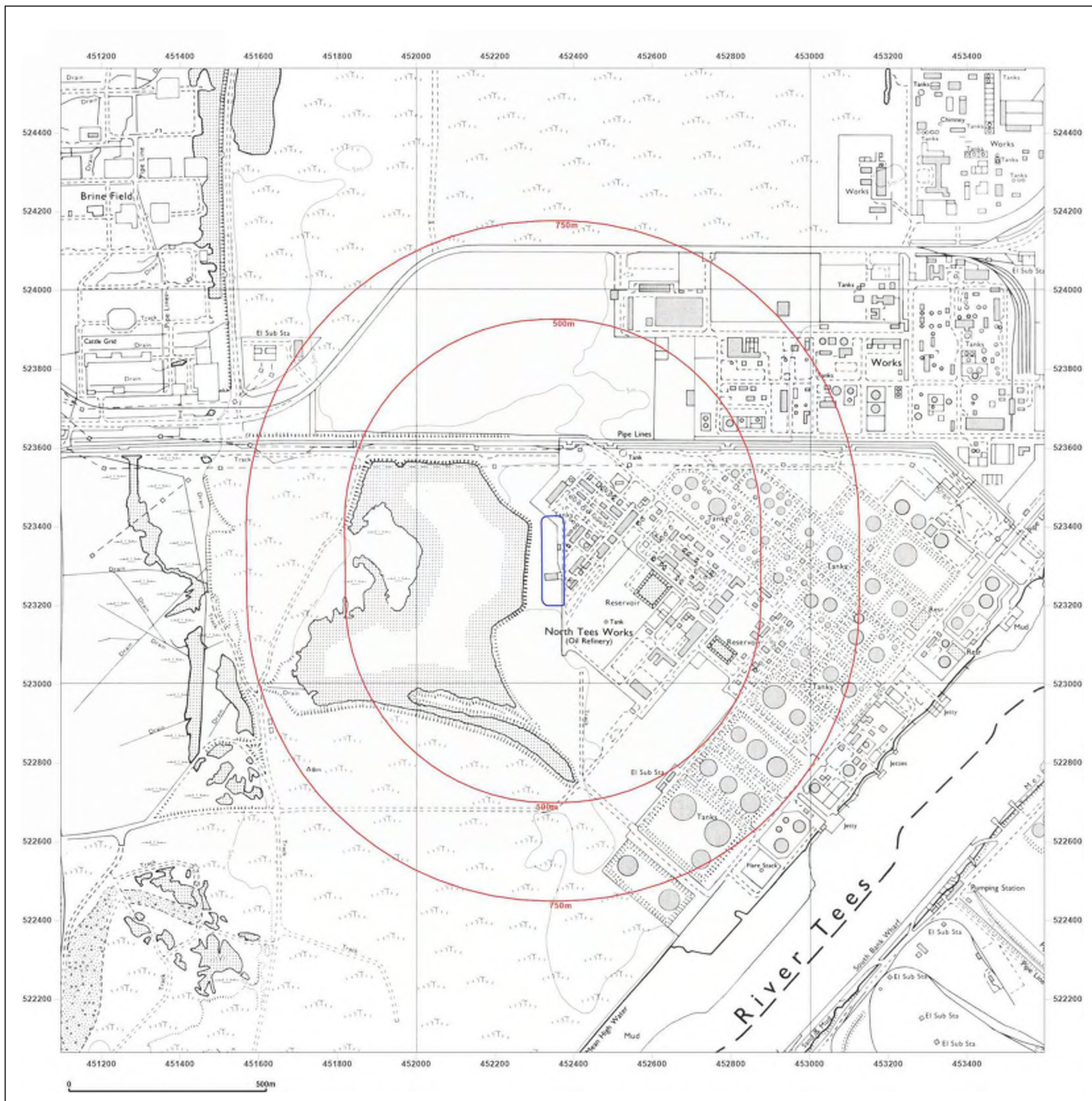


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**Site Details:**

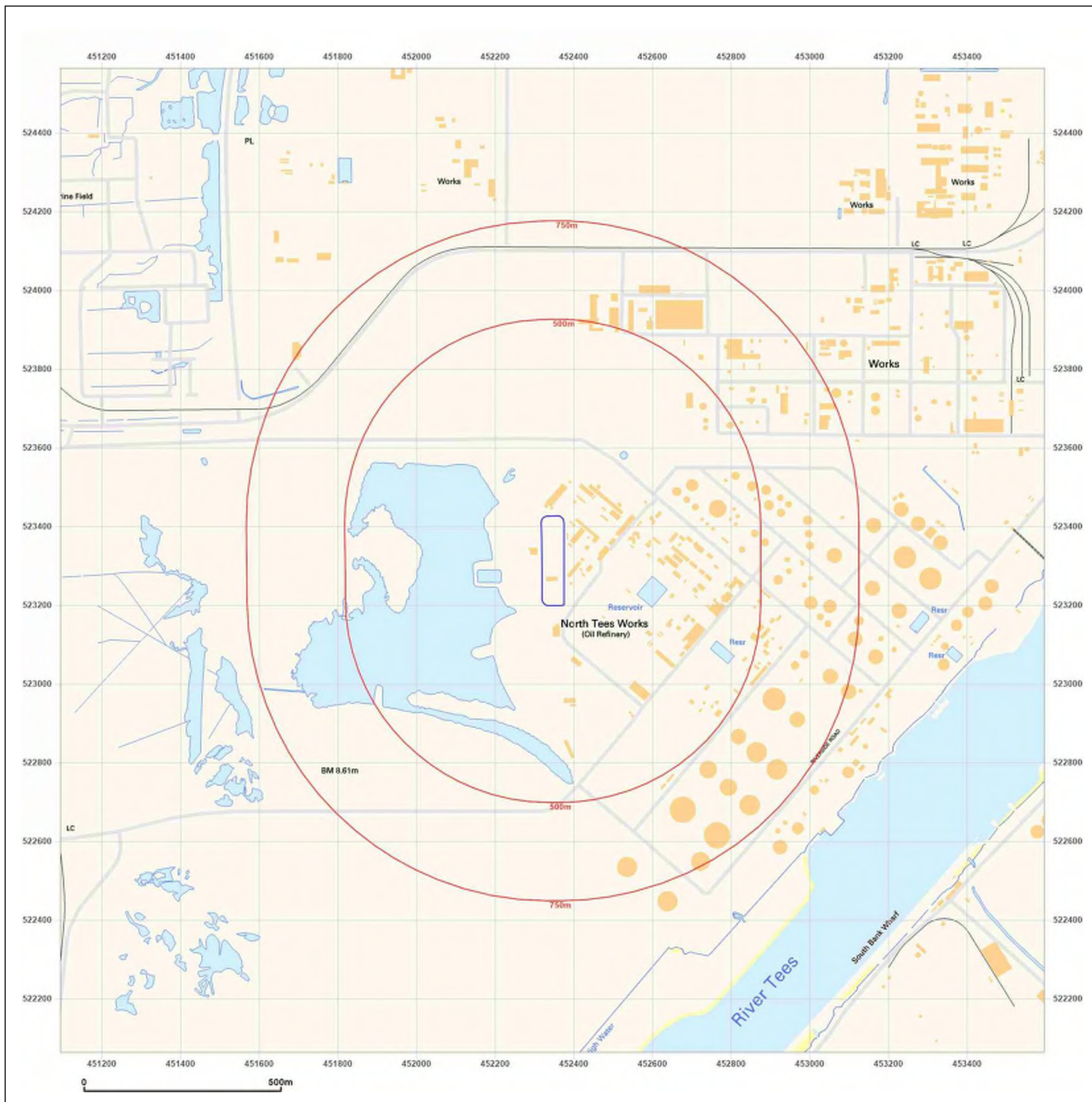
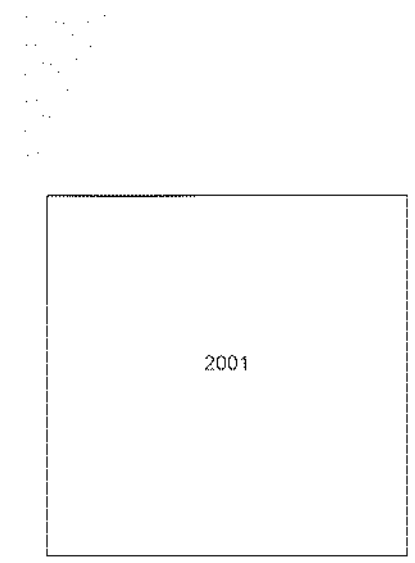
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**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

**Printed at:** 1:10,000



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**Site Details:**

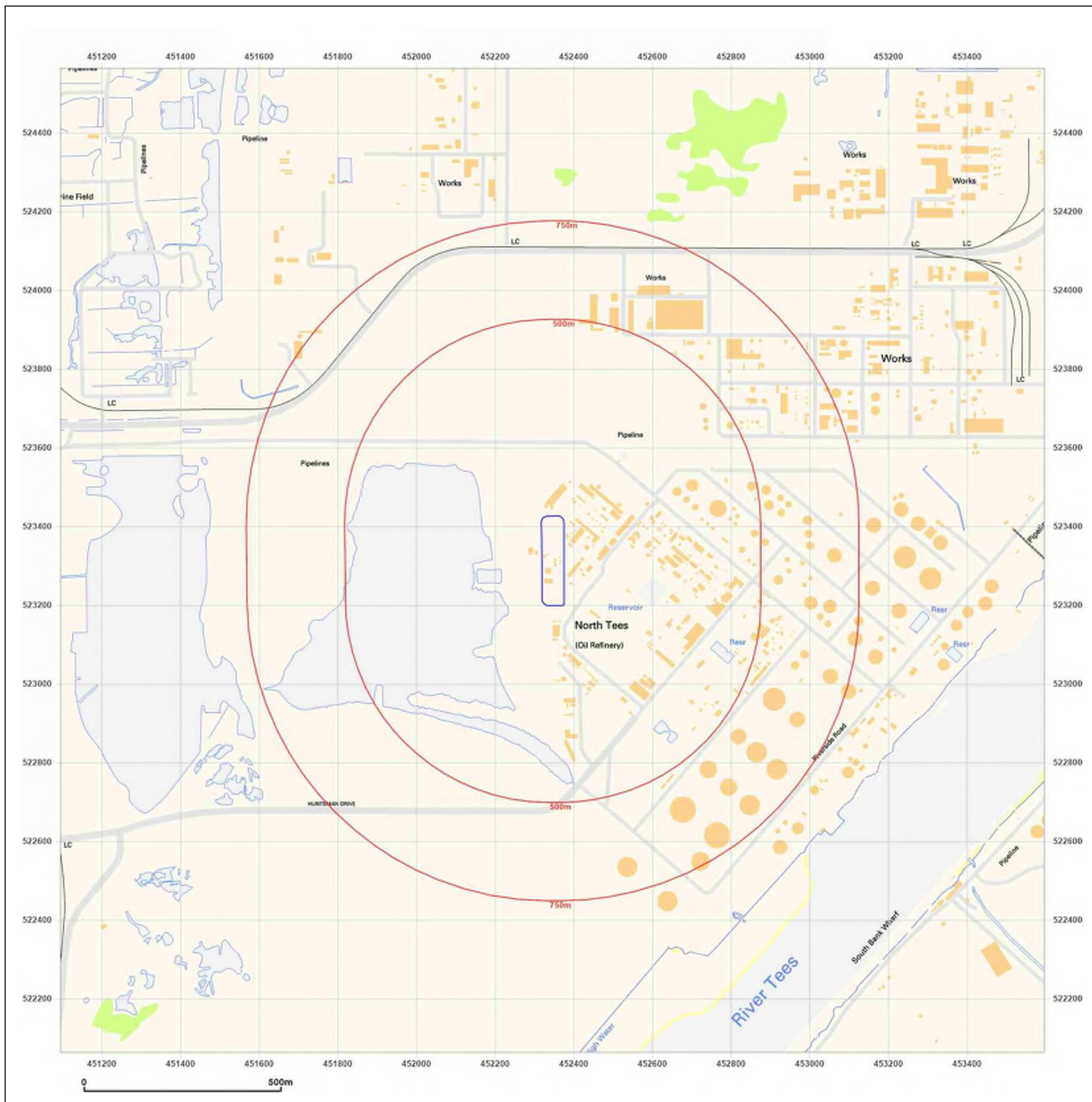
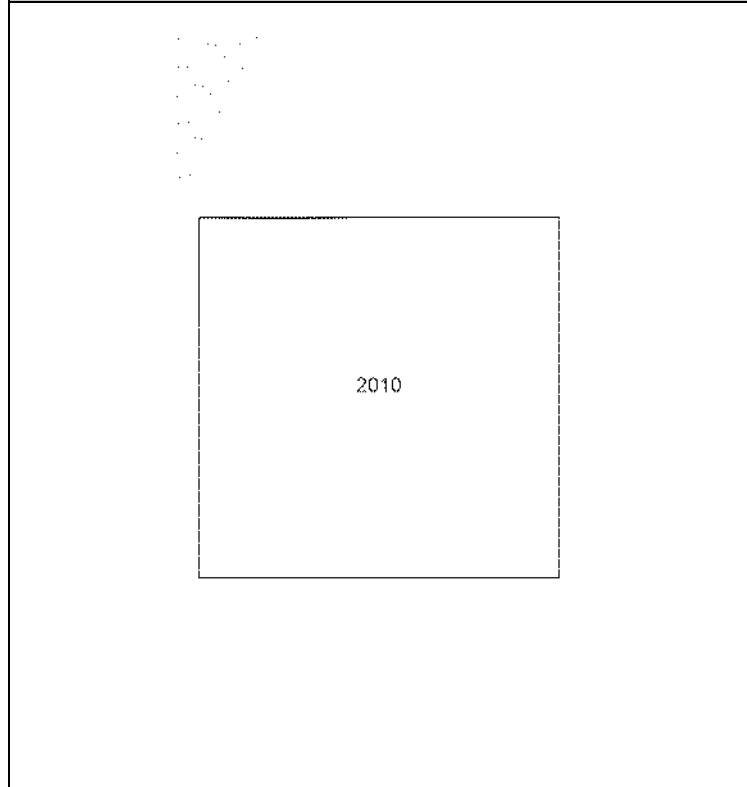
**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000



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**Site Details:**

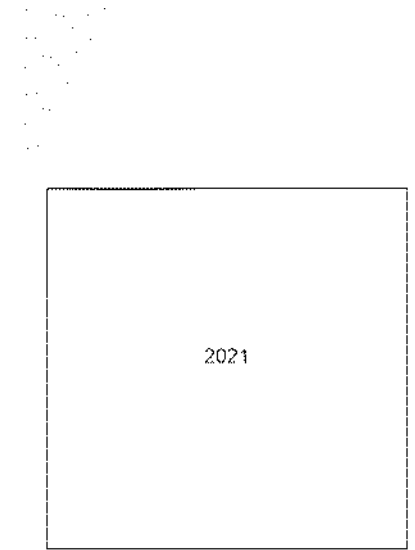
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**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 2021

**Scale:** 1:10,000

**Printed at:** 1:10,000



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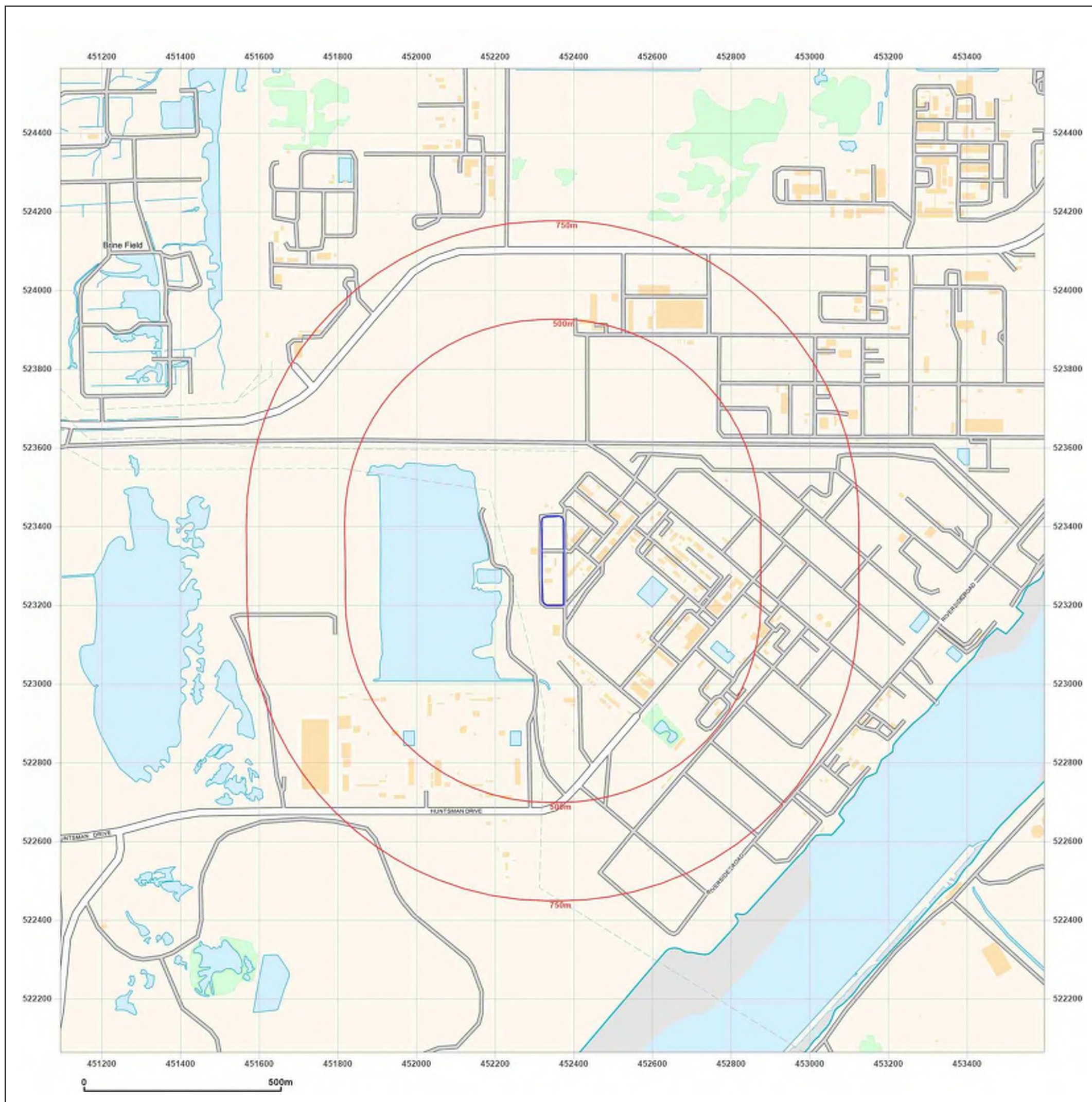


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## Site Details:

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1856

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1856  
Revised N/A  
Edition N/A  
Copyright N/A  
Levelled N/A



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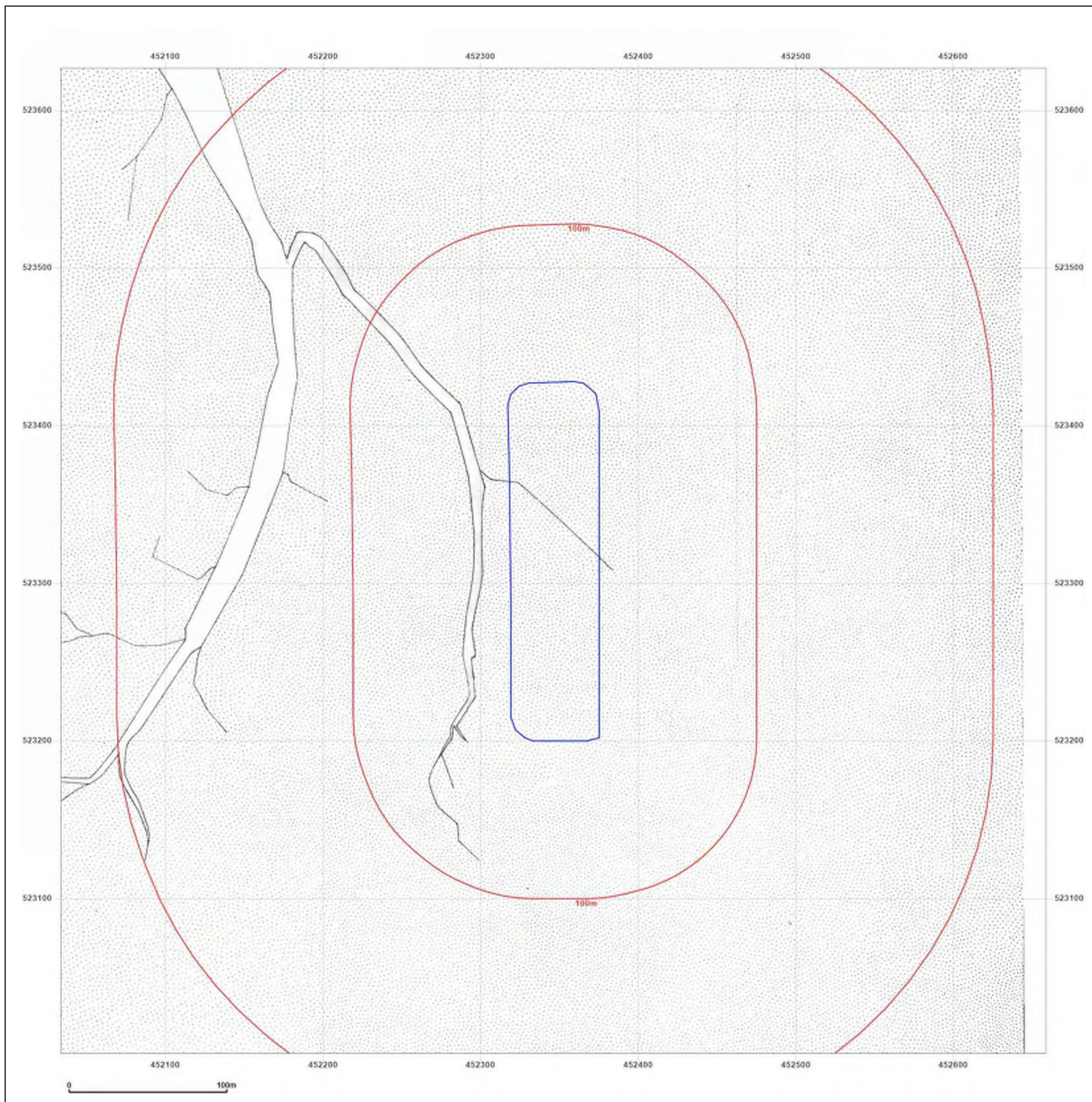


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### Site Details:

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1894-1898

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1898  
Revised 1898  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1894  
Revised 1894  
Edition N/A  
Copyright N/A  
Levelled N/A



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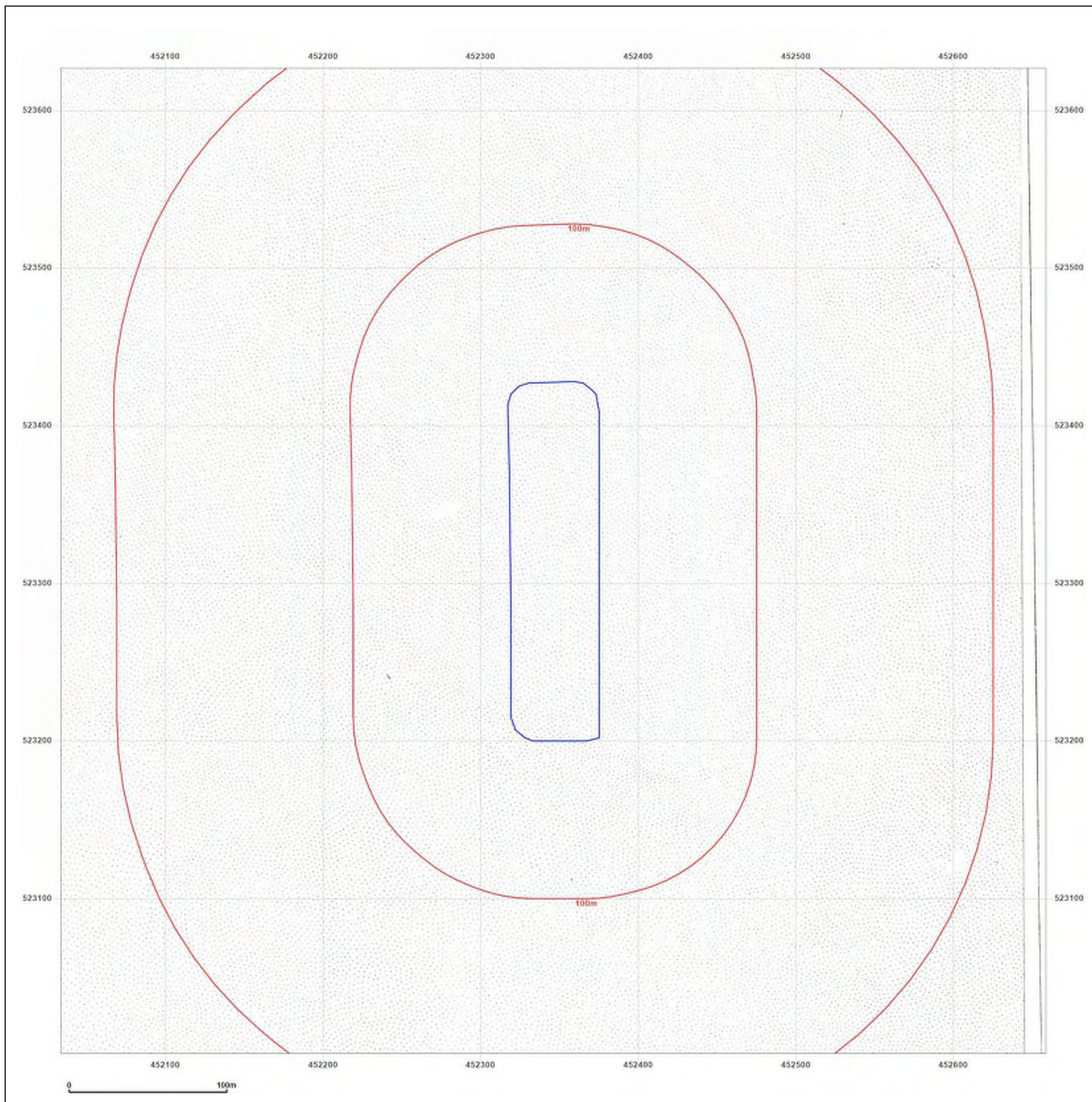


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1915-1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1916  
 Revised 1916  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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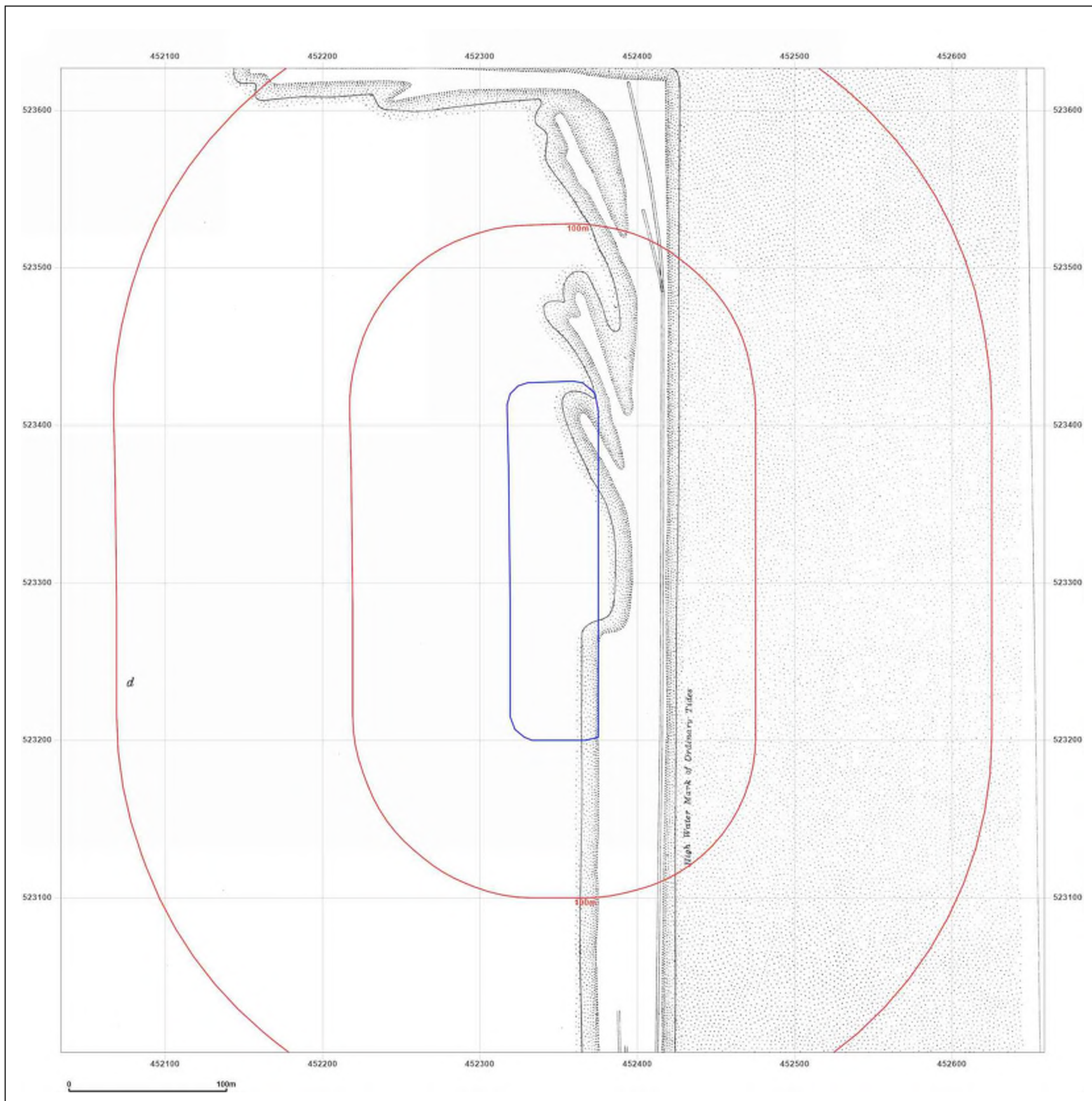


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## Site Details:

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** County Series

**Map date:** 1940

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1940  
Revised 1940  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1940  
Revised 1940  
Edition N/A  
Copyright N/A  
Levelled N/A



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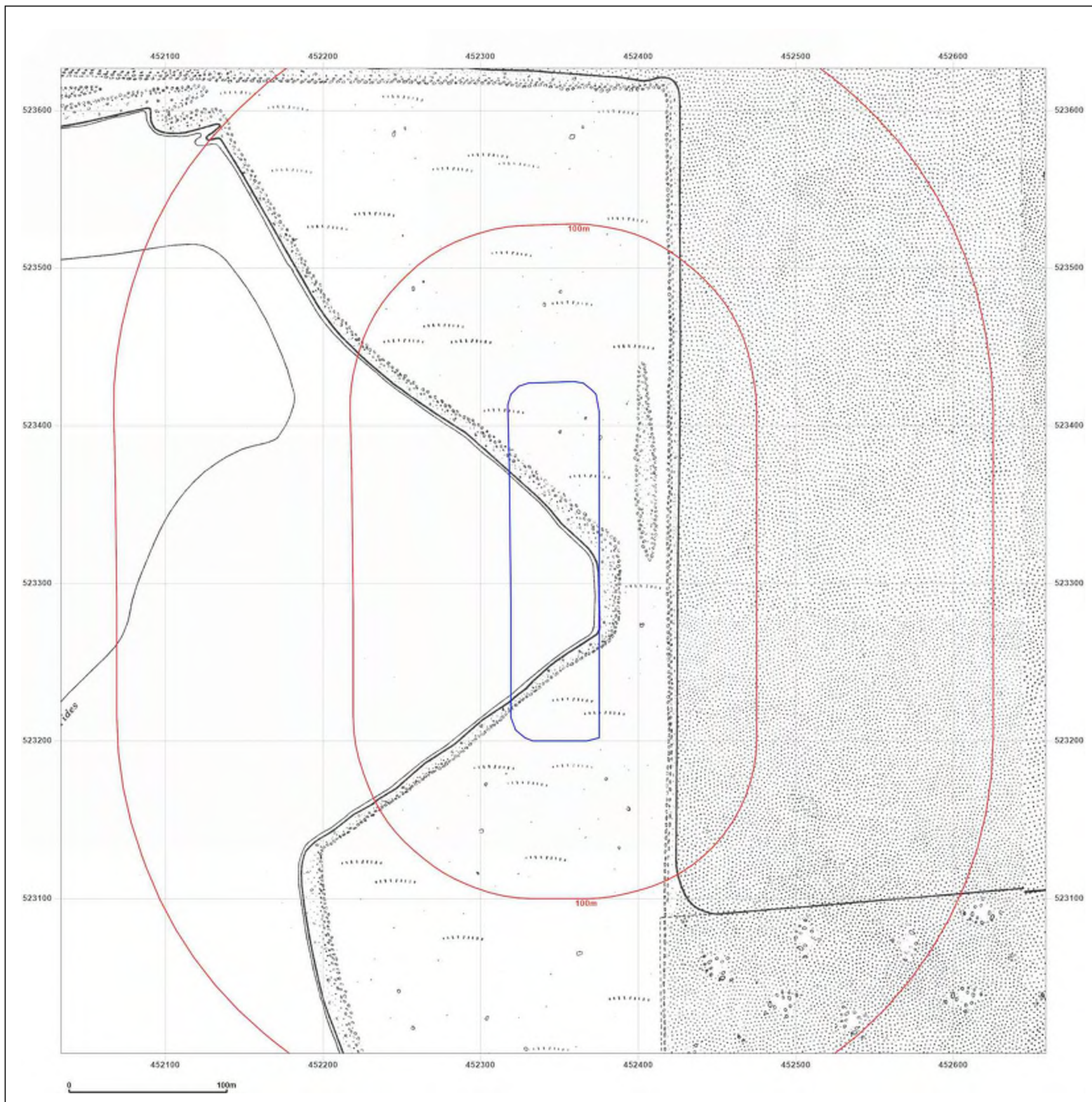


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

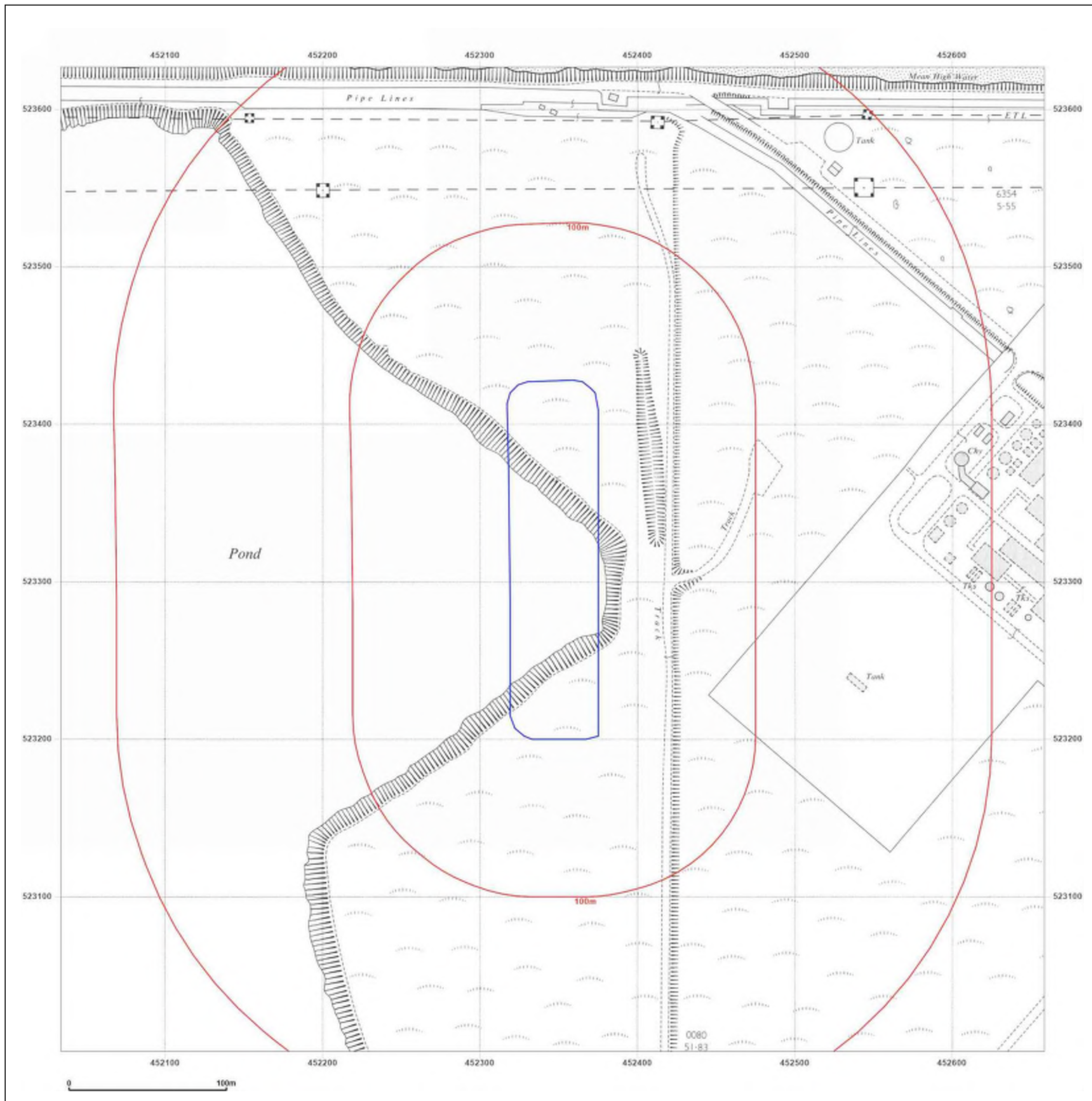
**Map date:** 1969

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1968  
 Revised 1968  
 Edition N/A  
 Copyright 1969  
 Levelled 1959



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Map legend available at:  
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**Site Details:**

Client Ref: EMS\_744284\_968373  
 Report Ref: EMS-744284\_968373  
 Grid Ref: 452346, 523314

Map Name: National Grid

Map date: 1984

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959  
 Revised 1984  
 Edition N/A  
 Copyright 1984  
 Levelled 1959



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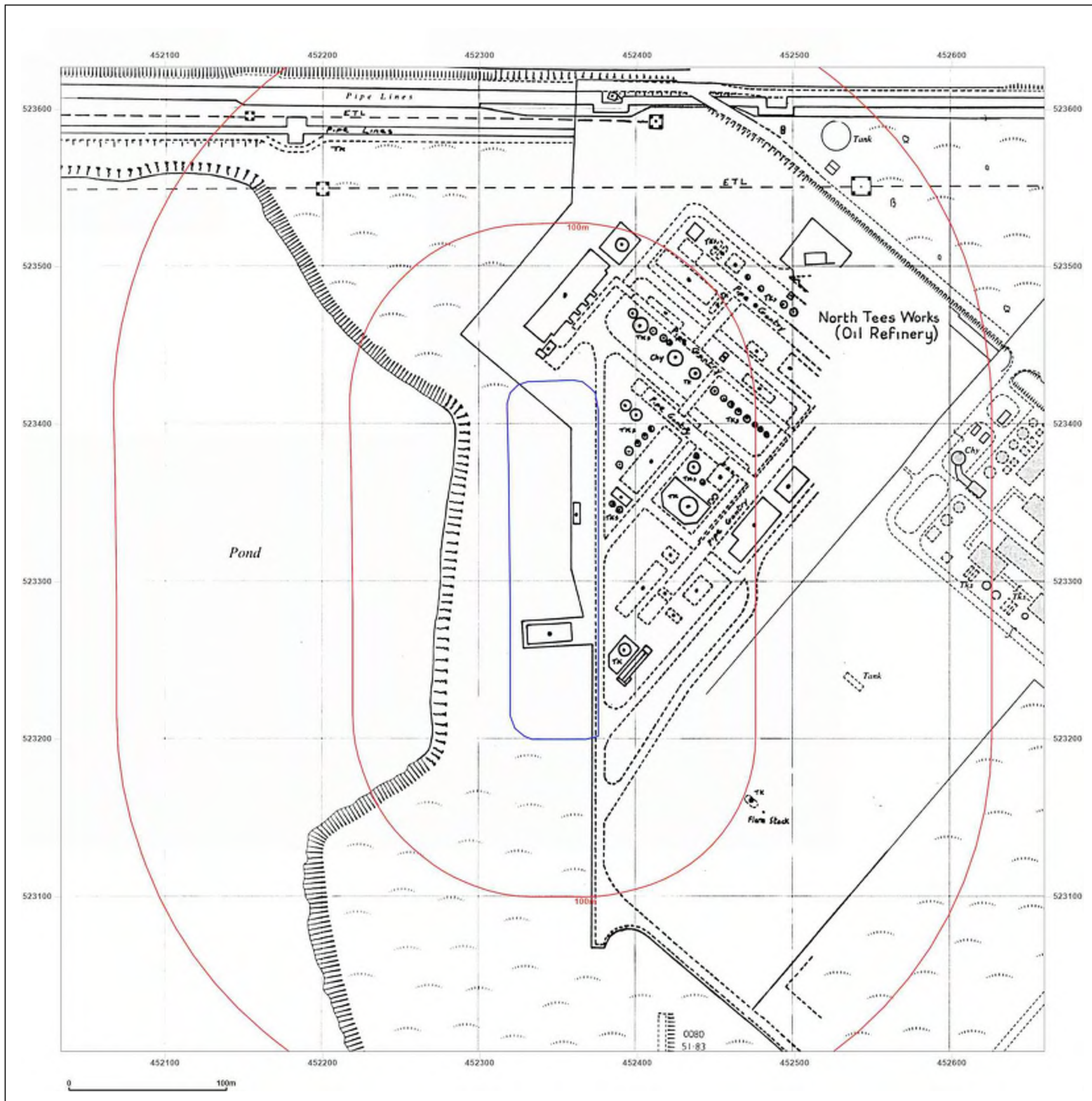


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**Site Details:**

**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** National Grid

**Map date:** 1993

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1993 Revised 1993 Edition N/A Copyright N/A Levelled N/A
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Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1993 Revised 1993 Edition N/A Copyright N/A Levelled N/A
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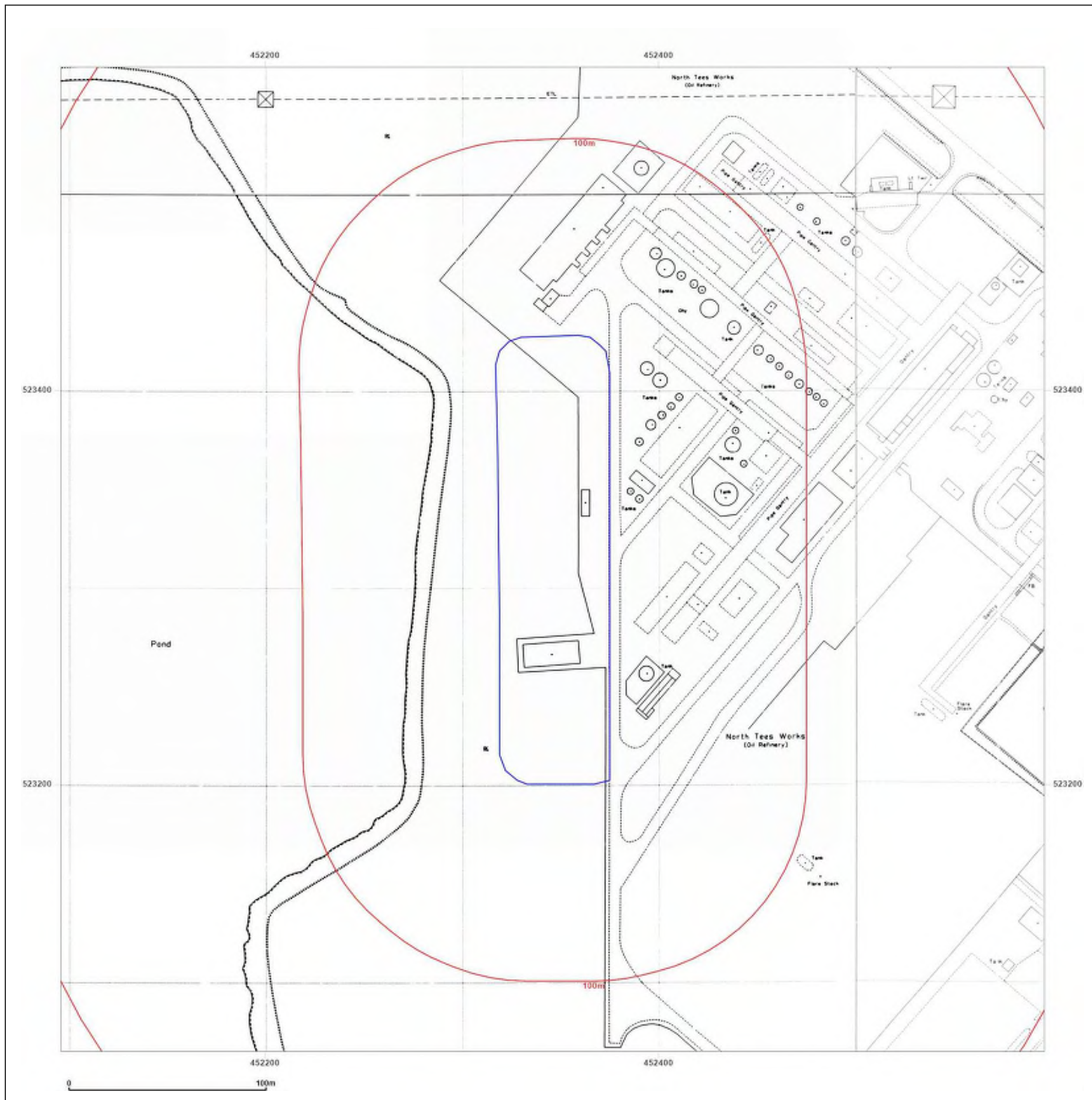


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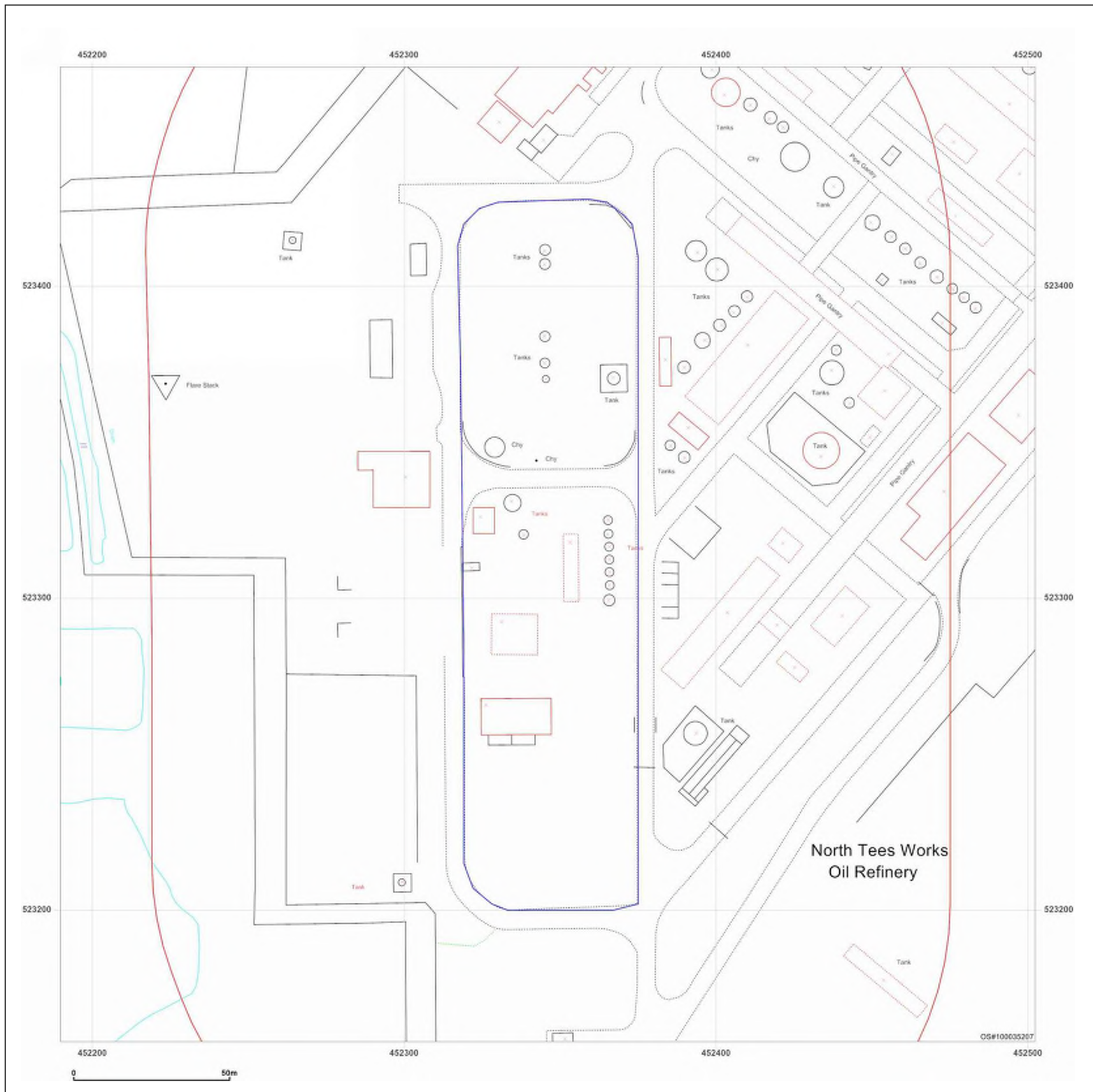
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**Site Details:**

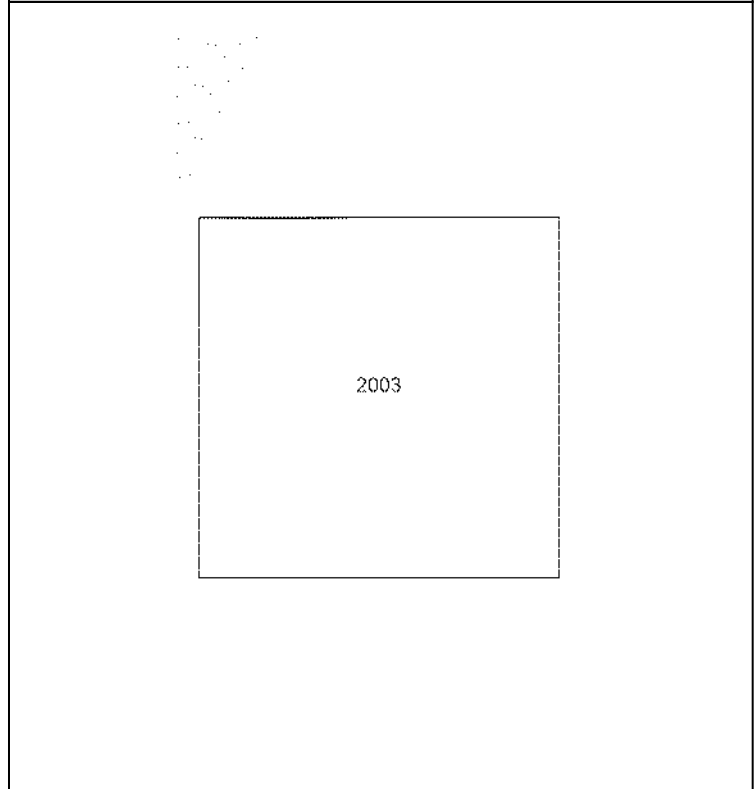
**Client Ref:** EMS\_744284\_968373  
**Report Ref:** EMS-744284\_968373  
**Grid Ref:** 452346, 523314

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



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## APPENDIX 02

### GroundSure Report

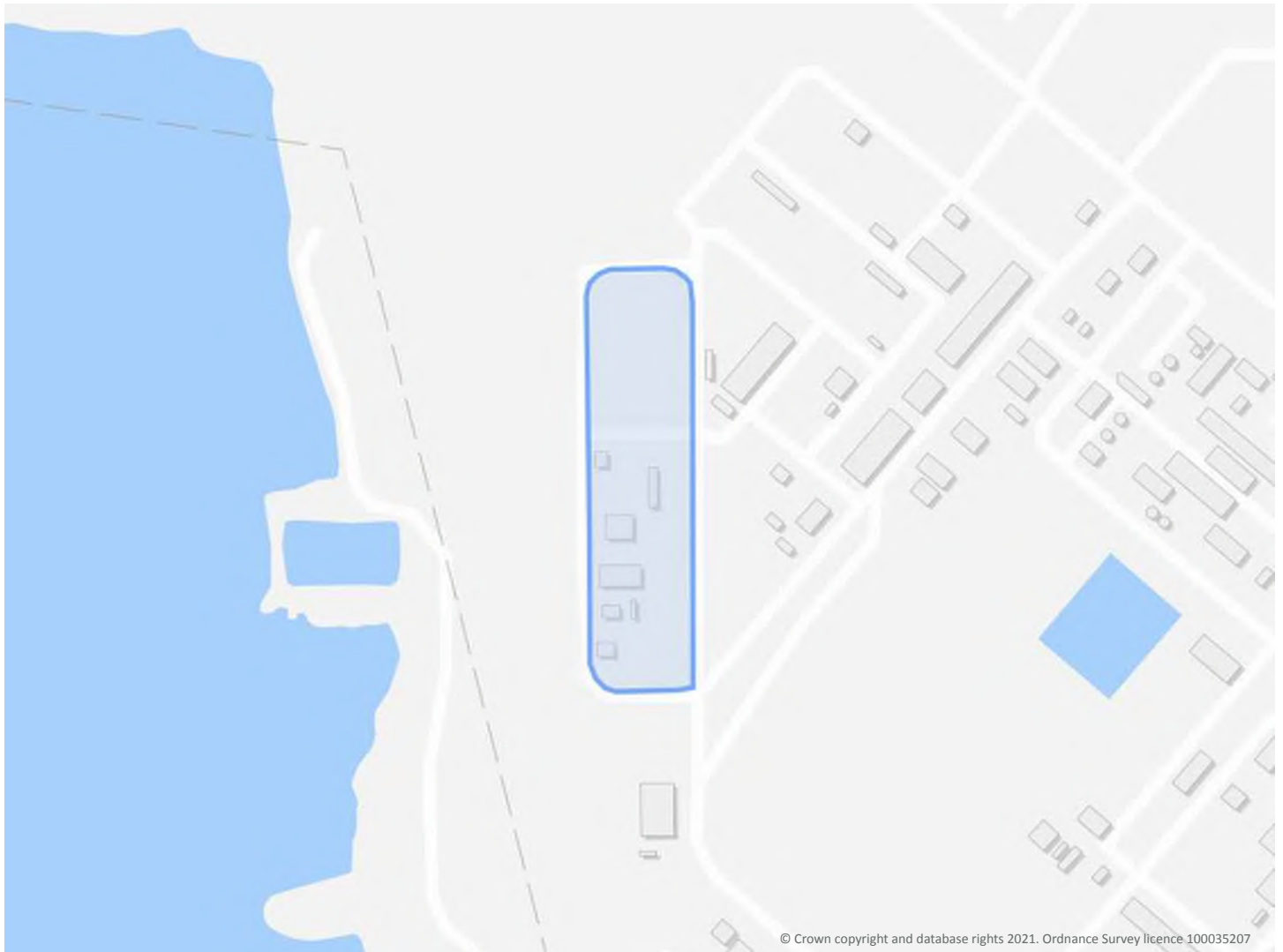
452346 523314

## Order Details

**Date:** 10/12/2021  
**Your ref:** EMS\_744284\_968374  
**Our Ref:** EMS-744284\_968374  
**Client:** emapsite

## Site Details

**Location:** 452346 523314  
**Area:** 1.26 ha  
**Authority:** [Stockton-on-Tees Borough Council](#)



**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.13

[groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)



## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>14</b>	<b>1.1</b>	<b><u>Historical industrial land uses</u></b>	2	9	13	21	-
<b>16</b>	<b>1.2</b>	<b><u>Historical tanks</u></b>	0	4	35	91	-
21	1.3	Historical energy features	0	0	0	0	-
22	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	Historical garages	0	0	0	0	-
22	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
<b>23</b>	<b>2.1</b>	<b><u>Historical industrial land uses</u></b>	3	12	23	40	-
<b>26</b>	<b>2.2</b>	<b><u>Historical tanks</u></b>	0	4	57	144	-
34	2.3	Historical energy features	0	0	0	0	-
34	2.4	Historical petrol stations	0	0	0	0	-
34	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
35	3.1	Active or recent landfill	0	0	0	0	-
35	3.2	Historical landfill (BGS records)	0	0	0	0	-
36	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<b>36</b>	<b>3.4</b>	<b><u>Historical landfill (EA/NRW records)</u></b>	0	0	1	0	-
<b>36</b>	<b>3.5</b>	<b><u>Historical waste sites</u></b>	0	0	1	0	-
<b>37</b>	<b>3.6</b>	<b><u>Licensed waste sites</u></b>	0	0	0	3	-
38	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>39</b>	<b>4.1</b>	<b><u>Recent industrial land uses</u></b>	8	10	53	-	-
42	4.2	Current or recent petrol stations	0	0	0	0	-
43	4.3	Electricity cables	0	0	0	0	-
43	4.4	Gas pipelines	0	0	0	0	-
43	4.5	Sites determined as Contaminated Land	0	0	0	0	-



<b>43</b>	<b>4.6</b>	<b><u>Control of Major Accident Hazards (COMAH)</u></b>	4	0	2	0	-
44	4.7	Regulated explosive sites	0	0	0	0	-
<b>44</b>	<b>4.8</b>	<b><u>Hazardous substance storage/usage</u></b>	0	0	0	5	-
<b>45</b>	<b>4.9</b>	<b><u>Historical licensed industrial activities (IPC)</u></b>	0	0	0	38	-
<b>50</b>	<b>4.10</b>	<b><u>Licensed industrial activities (Part A(1))</u></b>	0	0	4	64	-
61	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
<b>61</b>	<b>4.12</b>	<b><u>Radioactive Substance Authorisations</u></b>	0	0	0	12	-
<b>63</b>	<b>4.13</b>	<b><u>Licensed Discharges to controlled waters</u></b>	0	0	1	0	-
63	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
63	4.15	Pollutant release to public sewer	0	0	0	0	-
<b>64</b>	<b>4.16</b>	<b><u>List 1 Dangerous Substances</u></b>	0	0	0	2	-
64	4.17	List 2 Dangerous Substances	0	0	0	0	-
64	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
<b>64</b>	<b>4.19</b>	<b><u>Pollution inventory substances</u></b>	0	0	7	3	-
<b>68</b>	<b>4.20</b>	<b><u>Pollution inventory waste transfers</u></b>	0	0	3	1	-
79	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>80</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>81</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>82</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
83	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
83	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>84</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	3	0	0	51
98	5.7	Surface water abstractions	0	0	0	0	0
98	5.8	Potable abstractions	0	0	0	0	0
99	5.9	Source Protection Zones	0	0	0	0	-
99	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
100	6.1	Water Network (OS MasterMap)	0	0	0	-	-





<b>100</b>	<b>6.2</b>	<b><u>Surface water features</u></b>	0	0	4	-	-
<b>101</b>	<b>6.3</b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
101	6.4	WFD Surface water bodies	0	0	0	-	-
<b>101</b>	<b>6.5</b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
103	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
103	7.2	Historical Flood Events	0	0	0	-	-
103	7.3	Flood Defences	0	0	0	-	-
104	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
104	7.5	Flood Storage Areas	0	0	0	-	-
105	7.6	Flood Zone 2	None (within 50m)				
105	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
<b>106</b>	<b>8.1</b>	<b><u>Surface water flooding</u></b>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
<b>108</b>	<b>9.1</b>	<b><u>Groundwater flooding</u></b>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>109</b>	<b>10.1</b>	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	0	0	0	7
<b>110</b>	<b>10.2</b>	<b><u>Conserved wetland sites (Ramsar sites)</u></b>	0	0	0	0	5
111	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
<b>111</b>	<b>10.4</b>	<b><u>Special Protection Areas (SPA)</u></b>	0	0	0	0	19
<b>115</b>	<b>10.5</b>	<b><u>National Nature Reserves (NNR)</u></b>	0	0	0	0	1
115	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
115	10.7	Designated Ancient Woodland	0	0	0	0	0
116	10.8	Biosphere Reserves	0	0	0	0	0
116	10.9	Forest Parks	0	0	0	0	0
116	10.10	Marine Conservation Zones	0	0	0	0	0
116	10.11	Green Belt	0	0	0	0	0
<b>116</b>	<b>10.12</b>	<b><u>Proposed Ramsar sites</u></b>	0	0	0	0	8



117	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
117	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
117	10.15	Nitrate Sensitive Areas	0	0	0	0	0
118	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<b>119</b>	<b>10.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	<b>1</b>	-	-	-	-
<b>120</b>	<b>10.18</b>	<b><u>SSSI Units</u></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
125	11.1	World Heritage Sites	0	0	0	-	-
125	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
125	11.3	National Parks	0	0	0	-	-
125	11.4	Listed Buildings	0	0	0	-	-
126	11.5	Conservation Areas	0	0	0	-	-
126	11.6	Scheduled Ancient Monuments	0	0	0	-	-
126	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>127</b>	<b>12.1</b>	<b><u>Agricultural Land Classification</u></b>	Urban (within 250m)				
128	12.2	Open Access Land	0	0	0	-	-
128	12.3	Tree Felling Licences	0	0	0	-	-
128	12.4	Environmental Stewardship Schemes	0	0	0	-	-
128	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
129	13.1	Priority Habitat Inventory	0	0	0	-	-
129	13.2	Habitat Networks	0	0	0	-	-
<b>130</b>	<b>13.3</b>	<b><u>Open Mosaic Habitat</u></b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>
130	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
<b>131</b>	<b>14.1</b>	<b><u>10k Availability</u></b>	Identified (within 500m)				
<b>132</b>	<b>14.2</b>	<b><u>Artificial and made ground (10k)</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>
<b>133</b>	<b>14.3</b>	<b><u>Superficial geology (10k)</u></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>





134	14.4	Landslip (10k)	0	0	0	0	-
<b>135</b>	<b>14.5</b>	<b><u>Bedrock geology (10k)</u></b>	1	0	0	0	-
<b>136</b>	<b>14.6</b>	<b><u>Bedrock faults and other linear features (10k)</u></b>	0	1	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>137</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
<b>138</b>	<b>15.2</b>	<b><u>Artificial and made ground (50k)</u></b>	1	0	0	0	-
<b>139</b>	<b>15.3</b>	<b><u>Artificial ground permeability (50k)</u></b>	1	0	-	-	-
<b>140</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	0	0	0	-
<b>141</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
141	15.6	Landslip (50k)	0	0	0	0	-
141	15.7	Landslip permeability (50k)	None (within 50m)				
<b>142</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	0	0	0	-
<b>143</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
<b>143</b>	<b>15.10</b>	<b><u>Bedrock faults and other linear features (50k)</u></b>	0	0	0	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<b>144</b>	<b>16.1</b>	<b><u>BGS Boreholes</u></b>	0	7	6	-	-
Page	Section	Natural ground subsidence					
<b>146</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Very low (within 50m)				
<b>147</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Very low (within 50m)				
<b>148</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Very low (within 50m)				
<b>149</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Negligible (within 50m)				
<b>150</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Very low (within 50m)				
<b>151</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
153	18.1	Natural cavities	0	0	0	0	-
154	18.2	BritPits	0	0	0	0	-
<b>154</b>	<b>18.3</b>	<b><u>Surface ground workings</u></b>	1	2	2	-	-
154	18.4	Underground workings	0	0	0	0	0
<b>154</b>	<b>18.5</b>	<b><u>Historical Mineral Planning Areas</u></b>	1	0	0	0	-



<b>155</b>	<b>18.6</b>	<b><u>Non-coal mining</u></b>	1	0	0	0	2
<b>155</b>	<b>18.7</b>	<b><u>Mining cavities</u></b>	0	0	0	0	1
156	18.8	JPB mining areas	None (within 0m)				
156	18.9	Coal mining	None (within 0m)				
156	18.10	Brine areas	None (within 0m)				
156	18.11	Gypsum areas	None (within 0m)				
157	18.12	Tin mining	None (within 0m)				
157	18.13	Clay mining	None (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Radon</b>					
<b>158</b>	<b>19.1</b>	<b><u>Radon</u></b>	Less than 1% (within 0m)				
<b>Page</b>	<b>Section</b>	<b>Soil chemistry</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
<b>159</b>	<b>20.1</b>	<b><u>BGS Estimated Background Soil Chemistry</u></b>	1	0	-	-	-
159	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
159	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
<b>Page</b>	<b>Section</b>	<b>Railway infrastructure and projects</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
160	21.1	Underground railways (London)	0	0	0	-	-
160	21.2	Underground railways (Non-London)	0	0	0	-	-
161	21.3	Railway tunnels	0	0	0	-	-
<b>161</b>	<b>21.4</b>	<b><u>Historical railway and tunnel features</u></b>	0	5	3	-	-
161	21.5	Royal Mail tunnels	0	0	0	-	-
162	21.6	Historical railways	0	0	0	-	-
162	21.7	Railways	0	0	0	-	-
162	21.8	Crossrail 1	0	0	0	0	-
162	21.9	Crossrail 2	0	0	0	0	-
162	21.10	HS2	0	0	0	0	-





## Recent aerial photograph



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Capture Date: 26/08/2019

Site Area: 1.26ha



## Recent site history - 2016 aerial photograph



Capture Date: 06/05/2016

Site Area: 1.26ha





## Recent site history - 2012 aerial photograph



Capture Date: 30/03/2012

Site Area: 1.26ha



## Recent site history - 2000 aerial photograph



Capture Date: 07/05/2000

Site Area: 1.26ha





## Recent site history - 1999 aerial photograph

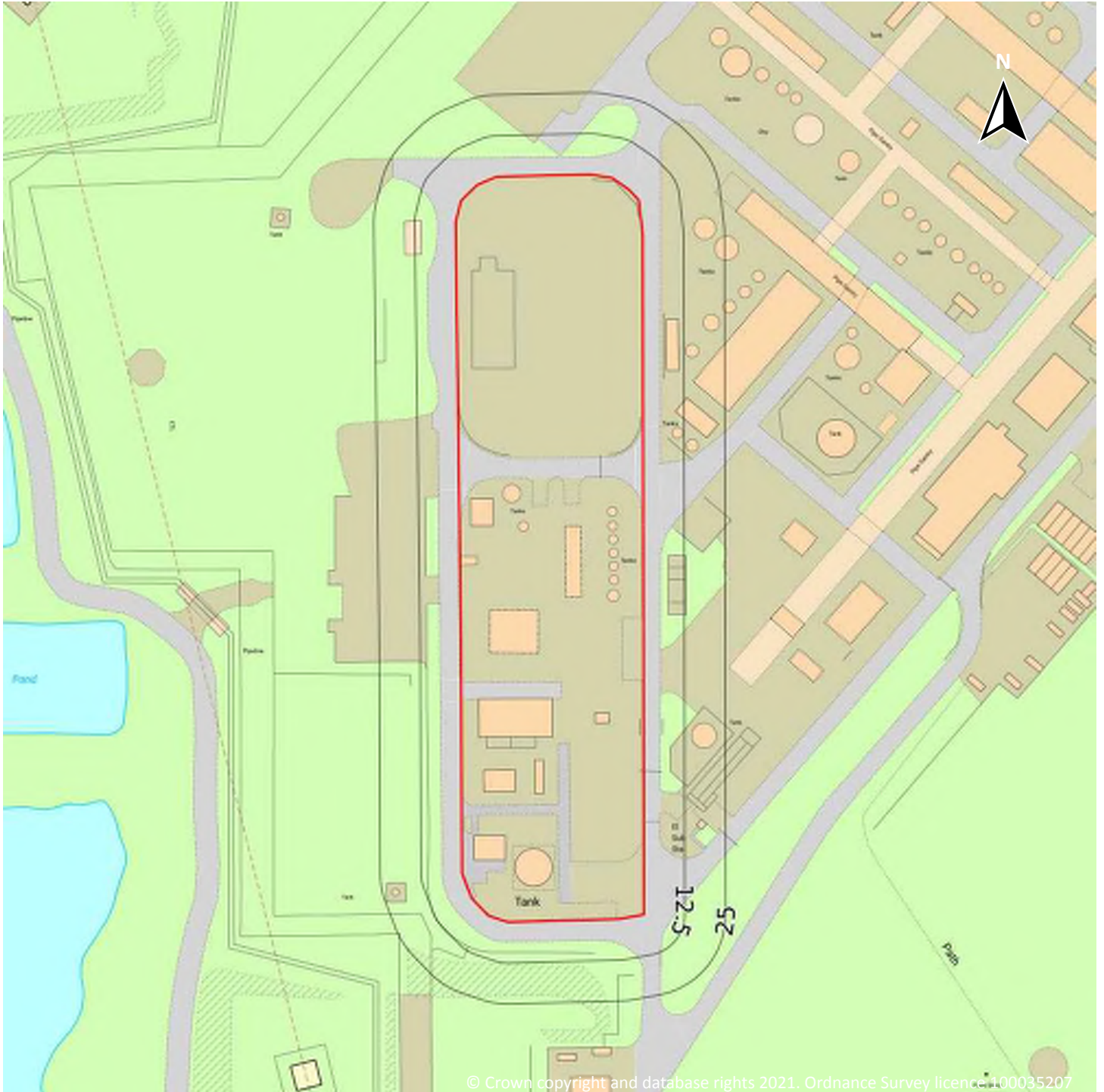


Capture Date: 10/09/1999

Site Area: 1.26ha



## OS MasterMap site plan



Site Area: 1.26ha





# 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks

## 1.1 Historical industrial land uses

**Records within 500m** **45**

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Steel Works	1913	1345678

ID	Location	Land use	Dates present	Group ID
<b>2</b>	<b>On site</b>	<b>Oil Refinery Works</b>	<b>1988 - 1992</b>	<b>1399407</b>
A	7m E	Unspecified Tanks	1988 - 1992	1396111
B	12m E	Unspecified Tanks	1988 - 1992	1380784
C	22m E	Railway Sidings	1920	1350025
C	22m E	Railway Sidings	1927	1372407
D	34m E	Railway Sidings	1913	1360083
D	34m E	Railway Sidings	1923	1379700
E	36m E	Railway Sidings	1913	1399900
A	48m NE	Unspecified Tanks	1988 - 1992	1406524
A	50m E	Unspecified Tanks	1988 - 1992	1346116
A	54m E	Unspecified Tanks	1988 - 1992	1355271
A	74m E	Unspecified Tanks	1988 - 1992	1368355
E	74m NE	Railway Sidings	1923	1398979
E	89m N	Unspecified Tanks	1988 - 1992	1390195
F	111m SE	Unspecified Tank	1988 - 1992	1374982
A	121m NE	Unspecified Tanks	1988 - 1992	1374820
H	160m S	Railway Sidings	1913	1344086
H	170m S	Railway Sidings	1923	1381051
I	185m E	Unspecified Tanks	1988 - 1992	1399712
J	214m NE	Unspecified Tank	1988 - 1992	1401157
I	227m E	Unspecified Tanks	1988 - 1992	1387793
I	243m E	Unspecified Tanks	1988 - 1992	1353532
I	247m E	Unspecified Tanks	1988 - 1992	1375278
K	282m E	Unspecified Tanks	1988 - 1992	1346869
I	283m E	Unspecified Tanks	1988 - 1992	1366021
I	302m E	Unspecified Tanks	1988 - 1992	1348222
4	305m NE	Unspecified Works	1988 - 1992	1345603
I	321m E	Unspecified Tank	1988 - 1992	1343509





ID	Location	Land use	Dates present	Group ID
I	331m E	Unspecified Tank	1988 - 1992	1393339
I	332m E	Unspecified Tank	1988 - 1992	1407829
H	336m S	Railway Building	1913 - 1920	1392105
H	338m S	Railway Building	1927	1381378
H	340m S	Railway Building	1923	1363711
I	355m E	Unspecified Tank	1988 - 1992	1374520
I	372m E	Unspecified Tank	1988 - 1992	1368575
L	389m E	Unspecified Tank	1988 - 1992	1382137
M	424m NE	Unspecified Tanks	1988 - 1992	1363955
N	440m E	Unspecified Tank	1988 - 1992	1385507
K	445m E	Unspecified Tank	1988 - 1992	1367340
K	462m E	Unspecified Tanks	1988 - 1992	1397579
N	470m E	Unspecified Tanks	1988 - 1992	1376274
K	474m E	Unspecified Tank	1988 - 1992	1373835
O	477m NE	Unspecified Tanks	1988 - 1992	1387504
6	494m SE	Electric Substation	1988 - 1992	1373031

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

## 1.2 Historical tanks

**Records within 500m**

**130**

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

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

ID	Location	Land use	Dates present	Group ID
A	7m E	Tanks	1984	206194
A	11m E	Tanks	1984	206195



ID	Location	Land use	Dates present	Group ID
B	12m E	Unspecified Tank	1984	202985
A	46m NE	Tanks	1984	206193
A	51m E	Unspecified Tank	1984	202981
A	57m E	Tanks	1984	206196
A	60m E	Unspecified Tank	1984	202979
A	73m E	Tanks	1984	206197
E	86m N	Unspecified Tank	1984 - 1994	212245
A	88m NE	Unspecified Tank	1984	202978
F	101m SE	Unspecified Tank	1984	202987
A	114m NE	Tanks	1984 - 1994	209579
A	116m NE	Tanks	1984	206192
A	119m NE	Tanks	1984	206191
G	156m E	Unspecified Tank	1975 - 1984	215295
G	157m E	Unspecified Tank	1968 - 1993	219475
A	161m NE	Unspecified Tank	1984 - 1993	212131
I	186m E	Tanks	1989	215564
I	186m E	Tanks	1975 - 1993	216268
I	198m E	Unspecified Tank	1975 - 1993	215555
I	209m E	Unspecified Tank	1975 - 1993	211918
J	213m NE	Unspecified Tank	1968 - 1984	218672
I	218m E	Tanks	1968 - 1984	208409
3	219m SE	Unspecified Tank	1975 - 1993	212987
I	220m E	Unspecified Tank	1975 - 1993	215644
I	220m E	Tanks	1975	218728
I	220m E	Tanks	1993	216026
I	229m E	Tanks	1989	222452
I	230m E	Tanks	1993	209095
I	232m E	Tanks	1984	213941





ID	Location	Land use	Dates present	Group ID
I	233m E	Tanks	1989	217904
I	234m E	Tanks	1975	216033
I	234m E	Tanks	1968 - 1993	221353
I	234m E	Tanks	1993	214486
I	245m E	Tanks	1968 - 1984	212831
I	246m E	Tanks	1968	219782
I	247m E	Tanks	1975	220536
I	247m E	Tanks	1993	213452
I	249m E	Unspecified Tank	1975 - 1993	217617
I	255m E	Tanks	1968 - 1984	214551
I	269m E	Unspecified Tank	1984	213326
I	271m E	Unspecified Tank	1968	221414
I	283m E	Tanks	1968 - 1984	211953
K	285m E	Unspecified Tank	1989 - 1993	212538
K	286m E	Unspecified Tank	1975	213677
I	288m E	Tanks	1968 - 1984	222239
K	297m E	Unspecified Tank	1993	220326
K	297m E	Unspecified Tank	1984	214991
I	298m E	Unspecified Tank	1968 - 1989	221045
I	300m E	Unspecified Tank	1975 - 1993	212937
I	304m E	Unspecified Tank	1968	202986
I	306m E	Tanks	1984	206211
I	308m E	Unspecified Tank	1968	202983
K	308m E	Tanks	1989 - 1993	221314
K	309m E	Tanks	1975	219135
I	318m E	Unspecified Tank	1968	202984
I	319m E	Tanks	1968 - 1984	209044
I	319m E	Unspecified Tank	1968 - 1993	214340



ID	Location	Land use	Dates present	Group ID
K	322m E	Unspecified Tank	1975 - 1989	212319
K	323m E	Unspecified Tank	1984	222448
K	323m E	Unspecified Tank	1993	210283
K	323m E	Unspecified Tank	1993	210085
K	328m E	Tanks	1975	214047
I	330m E	Unspecified Tank	1968 - 1984	221015
I	332m E	Unspecified Tank	1984	214541
I	334m E	Unspecified Tank	1968	214161
I	335m E	Unspecified Tank	1975 - 1993	221983
I	344m E	Unspecified Tank	1975 - 1993	211577
K	346m E	Tanks	1989	208564
K	346m E	Tanks	1984	218010
K	347m E	Tanks	1975	211965
K	347m E	Tanks	1968 - 1993	208725
I	352m E	Tanks	1968 - 1984	210939
I	354m E	Tanks	1975 - 1989	212623
I	355m E	Unspecified Tank	1968 - 1984	218932
I	355m E	Tanks	1993	213376
K	364m E	Tanks	1989 - 1993	214900
K	365m E	Tanks	1975	215825
K	368m E	Unspecified Tank	1984 - 1993	221676
K	370m E	Unspecified Tank	1975 - 1989	219055
I	370m E	Tanks	1968 - 1984	215824
I	370m E	Tanks	1975 - 1993	211555
K	371m E	Unspecified Tank	1993	219163
K	375m E	Tanks	1975	221295
I	381m E	Unspecified Tank	1975 - 1993	217878
I	396m E	Unspecified Tank	1989 - 1993	213314





ID	Location	Land use	Dates present	Group ID
K	418m E	Tanks	1989 - 1993	209808
K	419m E	Tanks	1975	221372
M	423m NE	Unspecified Tank	1984 - 1993	212893
K	430m E	Tanks	1975	216809
K	433m E	Tanks	1975	217034
M	434m NE	Unspecified Tank	1984 - 1993	218556
K	437m E	Tanks	1975	211685
N	441m E	Unspecified Tank	1984 - 1993	218305
K	443m E	Tanks	1984	218529
K	444m E	Unspecified Tank	1975 - 1989	214260
K	445m E	Tanks	1968	209581
K	445m E	Unspecified Tank	1993	212041
M	447m NE	Unspecified Tank	1993	202973
L	450m E	Unspecified Tank	1968 - 1993	208203
L	452m E	Unspecified Tank	1968 - 1984	219625
5	454m SE	Unspecified Tank	1997	202988
L	454m E	Tanks	1975	206198
K	465m E	Tanks	1989	220696
K	466m E	Tanks	1968 - 1993	217966
K	466m E	Tanks	1975	209428
N	473m E	Tanks	1989 - 1993	208661
N	474m E	Unspecified Tank	1984 - 1993	219154
N	475m E	Tanks	1975	217235
K	475m E	Tanks	1989	212396
K	475m E	Tanks	1968 - 1984	215576
K	476m E	Tanks	1993	212009
K	476m E	Tanks	1975	207531
O	477m NE	Unspecified Tank	1984 - 1993	215707



ID	Location	Land use	Dates present	Group ID
P	478m SE	Tanks	1997	221420
K	479m E	Tanks	1968 - 1993	209783
P	480m SE	Tanks	1980	217033
P	481m SE	Tanks	1975	216645
K	484m E	Tanks	1975	206199
P	485m E	Unspecified Tank	1989 - 1993	212299
N	485m E	Unspecified Tank	1989	202982
P	486m E	Unspecified Tank	1975	210591
P	487m SE	Tanks	1997	206322
N	487m E	Tanks	1975 - 1993	218689
P	491m E	Unspecified Tank	1975 - 1993	220665
P	495m SE	Tanks	1975	213042
K	496m E	Tanks	1993	219998
P	496m SE	Tanks	1975	207796
P	498m E	Unspecified Tank	1989	208777
P	499m E	Unspecified Tank	1975 - 1993	211000

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

### 1.3 Historical energy features

**Records within 500m**

**0**

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'.

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





## 1.4 Historical petrol stations

Records within 500m

0

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

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

## 1.5 Historical garages

Records within 500m

0

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

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

## 1.6 Historical military land

Records within 500m

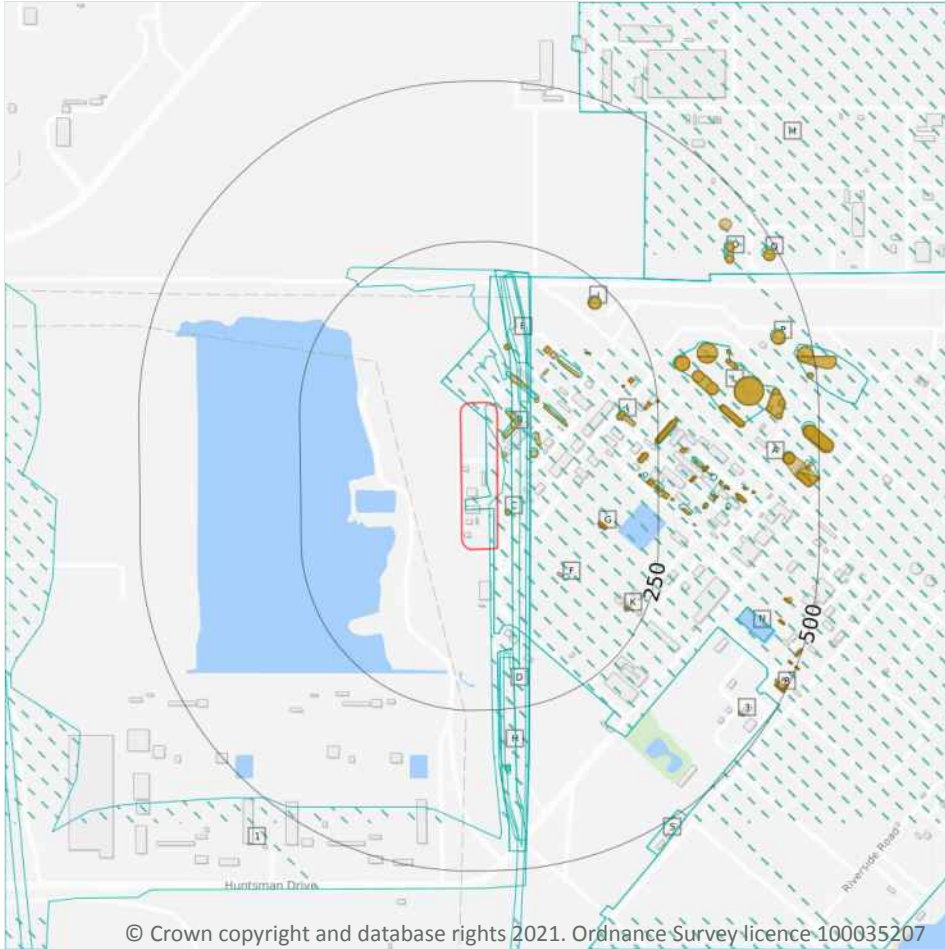
0

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

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



## 2 Past land use - un-grouped



**Site Outline**

**Search buffers in metres (m)**

- Historical industrial land uses
- Historical tanks

### 2.1 Historical industrial land uses

**Records within 500m** **78**

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 23**

ID	Location	Land Use	Date	Group ID
1	On site	Steel Works	1913	1345678
A	On site	Oil Refinery Works	1992	1399407
A	On site	Oil Refinery Works	1988	1399407



ID	Location	Land Use	Date	Group ID
B	7m E	Unspecified Tanks	1992	1396111
B	7m E	Unspecified Tanks	1988	1396111
C	12m E	Unspecified Tanks	1992	1380784
C	12m E	Unspecified Tanks	1988	1380784
D	22m E	Railway Sidings	1920	1350025
D	22m E	Railway Sidings	1927	1372407
2	34m E	Railway Sidings	1913	1360083
E	36m E	Railway Sidings	1913	1399900
B	48m NE	Unspecified Tanks	1992	1406524
B	48m NE	Unspecified Tanks	1988	1406524
B	50m E	Unspecified Tanks	1992	1346116
B	50m E	Unspecified Tanks	1988	1346116
B	54m E	Unspecified Tanks	1992	1355271
B	54m E	Unspecified Tanks	1988	1355271
B	74m E	Unspecified Tanks	1992	1368355
B	74m E	Unspecified Tanks	1988	1368355
E	74m NE	Railway Sidings	1923	1398979
E	89m N	Unspecified Tanks	1992	1390195
E	89m N	Unspecified Tanks	1988	1390195
F	111m SE	Unspecified Tank	1992	1374982
F	111m SE	Unspecified Tank	1988	1374982
B	121m NE	Unspecified Tanks	1992	1374820
B	121m NE	Unspecified Tanks	1988	1374820
H	160m S	Railway Sidings	1913	1344086
H	170m S	Railway Sidings	1923	1381051
I	185m E	Unspecified Tanks	1992	1399712
I	185m E	Unspecified Tanks	1988	1399712
J	214m NE	Unspecified Tank	1992	1401157



ID	Location	Land Use	Date	Group ID
J	214m NE	Unspecified Tank	1988	1401157
I	227m E	Unspecified Tanks	1992	1387793
I	227m E	Unspecified Tanks	1988	1387793
I	243m E	Unspecified Tanks	1992	1353532
I	243m E	Unspecified Tanks	1988	1353532
I	247m E	Unspecified Tanks	1992	1375278
I	247m E	Unspecified Tanks	1988	1375278
L	282m E	Unspecified Tanks	1992	1346869
L	282m E	Unspecified Tanks	1988	1346869
I	283m E	Unspecified Tanks	1992	1366021
I	283m E	Unspecified Tanks	1988	1366021
I	302m E	Unspecified Tanks	1992	1348222
I	302m E	Unspecified Tanks	1988	1348222
M	305m NE	Unspecified Works	1992	1345603
M	305m NE	Unspecified Works	1988	1345603
I	321m E	Unspecified Tank	1992	1343509
I	321m E	Unspecified Tank	1988	1343509
I	331m E	Unspecified Tank	1992	1393339
I	331m E	Unspecified Tank	1988	1393339
I	332m E	Unspecified Tank	1992	1407829
I	332m E	Unspecified Tank	1988	1407829
H	336m S	Railway Building	1913	1392105
H	338m S	Railway Building	1920	1392105
H	338m S	Railway Building	1927	1381378
H	340m S	Railway Building	1923	1363711
I	355m E	Unspecified Tank	1992	1374520
I	355m E	Unspecified Tank	1988	1374520
I	372m E	Unspecified Tank	1992	1368575





ID	Location	Land Use	Date	Group ID
I	372m E	Unspecified Tank	1988	1368575
N	389m E	Unspecified Tank	1992	1382137
N	389m E	Unspecified Tank	1988	1382137
O	424m NE	Unspecified Tanks	1992	1363955
O	424m NE	Unspecified Tanks	1988	1363955
P	440m E	Unspecified Tank	1992	1385507
P	440m E	Unspecified Tank	1988	1385507
L	445m E	Unspecified Tank	1992	1367340
L	445m E	Unspecified Tank	1988	1367340
L	462m E	Unspecified Tanks	1992	1397579
L	462m E	Unspecified Tanks	1988	1397579
P	470m E	Unspecified Tanks	1992	1376274
P	470m E	Unspecified Tanks	1988	1376274
L	474m E	Unspecified Tank	1992	1373835
L	474m E	Unspecified Tank	1988	1373835
Q	477m NE	Unspecified Tanks	1992	1387504
Q	477m NE	Unspecified Tanks	1988	1387504
S	494m SE	Electric Substation	1992	1373031
S	494m SE	Electric Substation	1988	1373031

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

## 2.2 Historical tanks

**Records within 500m**

**205**

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 23**

ID	Location	Land Use	Date	Group ID
B	7m E	Tanks	1984	206194



ID	Location	Land Use	Date	Group ID
B	11m E	Tanks	1984	206195
C	12m E	Unspecified Tank	1984	202985
B	46m NE	Tanks	1984	206193
B	51m E	Unspecified Tank	1984	202981
B	57m E	Tanks	1984	206196
B	60m E	Unspecified Tank	1984	202979
B	73m E	Tanks	1984	206197
E	86m N	Unspecified Tank	1994	212245
E	86m N	Unspecified Tank	1984	212245
B	88m NE	Unspecified Tank	1984	202978
F	101m SE	Unspecified Tank	1984	202987
B	114m NE	Tanks	1984	209579
B	114m NE	Tanks	1994	209579
B	116m NE	Tanks	1984	206192
B	119m NE	Tanks	1984	206191
G	156m E	Unspecified Tank	1984	215295
G	157m E	Unspecified Tank	1968	219475
G	158m E	Unspecified Tank	1975	215295
G	158m E	Unspecified Tank	1989	219475
G	159m E	Unspecified Tank	1993	219475
B	161m NE	Unspecified Tank	1993	212131
B	162m NE	Unspecified Tank	1984	212131
I	186m E	Tanks	1989	215564
I	186m E	Tanks	1975	216268
I	187m E	Tanks	1993	216268
I	198m E	Unspecified Tank	1989	215555
I	198m E	Unspecified Tank	1975	215555
I	198m E	Unspecified Tank	1993	215555





ID	Location	Land Use	Date	Group ID
I	209m E	Unspecified Tank	1989	211918
I	209m E	Unspecified Tank	1993	211918
I	209m E	Unspecified Tank	1975	211918
J	213m NE	Unspecified Tank	1984	218672
J	214m NE	Unspecified Tank	1968	218672
I	218m E	Tanks	1984	208409
K	219m SE	Unspecified Tank	1989	212987
I	219m E	Tanks	1968	208409
K	220m SE	Unspecified Tank	1975	212987
I	220m E	Unspecified Tank	1989	215644
I	220m E	Unspecified Tank	1975	215644
K	220m SE	Unspecified Tank	1993	212987
I	220m E	Tanks	1975	218728
I	220m E	Tanks	1993	216026
I	221m E	Unspecified Tank	1993	215644
I	229m E	Tanks	1989	222452
I	230m E	Tanks	1993	209095
I	232m E	Tanks	1984	213941
I	233m E	Tanks	1989	217904
I	234m E	Tanks	1975	216033
I	234m E	Tanks	1975	221353
I	234m E	Tanks	1993	221353
I	234m E	Tanks	1968	221353
I	234m E	Tanks	1993	214486
I	245m E	Tanks	1984	212831
I	246m E	Tanks	1968	219782
I	247m E	Tanks	1975	220536
I	247m E	Tanks	1968	212831



ID	Location	Land Use	Date	Group ID
I	247m E	Tanks	1993	213452
I	249m E	Unspecified Tank	1989	217617
I	249m E	Unspecified Tank	1975	217617
I	250m E	Unspecified Tank	1993	217617
I	255m E	Tanks	1984	214551
I	258m E	Tanks	1968	214551
I	269m E	Unspecified Tank	1984	213326
I	271m E	Unspecified Tank	1968	221414
I	283m E	Tanks	1984	211953
L	285m E	Unspecified Tank	1989	212538
I	285m E	Tanks	1968	211953
L	286m E	Unspecified Tank	1993	212538
L	286m E	Unspecified Tank	1975	213677
I	288m E	Tanks	1984	222239
I	289m E	Tanks	1968	222239
L	297m E	Unspecified Tank	1993	220326
L	297m E	Unspecified Tank	1984	214991
I	298m E	Unspecified Tank	1984	221045
I	299m E	Unspecified Tank	1989	221045
I	300m E	Unspecified Tank	1975	212937
I	301m E	Unspecified Tank	1993	212937
I	301m E	Unspecified Tank	1968	221045
I	304m E	Unspecified Tank	1968	202986
I	306m E	Tanks	1984	206211
I	308m E	Unspecified Tank	1968	202983
L	308m E	Tanks	1989	221314
L	309m E	Tanks	1993	221314
L	309m E	Tanks	1975	219135





ID	Location	Land Use	Date	Group ID
I	318m E	Unspecified Tank	1968	202984
I	319m E	Tanks	1984	209044
I	319m E	Unspecified Tank	1989	214340
I	319m E	Unspecified Tank	1984	214340
I	320m E	Unspecified Tank	1975	214340
I	320m E	Unspecified Tank	1993	214340
I	321m E	Tanks	1968	209044
I	321m E	Unspecified Tank	1968	214340
L	322m E	Unspecified Tank	1989	212319
L	323m E	Unspecified Tank	1984	222448
L	323m E	Unspecified Tank	1975	212319
L	323m E	Unspecified Tank	1993	210283
L	323m E	Unspecified Tank	1993	210085
L	328m E	Tanks	1975	214047
I	330m E	Unspecified Tank	1984	221015
I	332m E	Unspecified Tank	1984	214541
I	333m E	Unspecified Tank	1968	221015
I	334m E	Unspecified Tank	1968	214161
I	335m E	Unspecified Tank	1989	221983
I	337m E	Unspecified Tank	1975	221983
I	337m E	Unspecified Tank	1993	221983
I	344m E	Unspecified Tank	1989	211577
I	345m E	Unspecified Tank	1975	211577
I	345m E	Unspecified Tank	1993	211577
L	346m E	Tanks	1989	208564
L	346m E	Tanks	1984	218010
L	347m E	Tanks	1975	211965
L	347m E	Tanks	1993	208725



ID	Location	Land Use	Date	Group ID
L	348m E	Tanks	1968	208725
I	352m E	Tanks	1984	210939
I	354m E	Tanks	1989	212623
I	354m E	Tanks	1968	210939
I	355m E	Unspecified Tank	1984	218932
I	355m E	Tanks	1975	212623
I	355m E	Tanks	1993	213376
I	357m E	Unspecified Tank	1968	218932
L	364m E	Tanks	1989	214900
L	365m E	Tanks	1993	214900
L	365m E	Tanks	1975	215825
L	368m E	Unspecified Tank	1984	221676
L	368m E	Unspecified Tank	1993	221676
L	370m E	Unspecified Tank	1989	219055
I	370m E	Tanks	1984	215824
I	370m E	Tanks	1989	211555
I	371m E	Tanks	1993	211555
L	371m E	Unspecified Tank	1975	219055
L	371m E	Unspecified Tank	1993	219163
I	371m E	Tanks	1975	211555
I	372m E	Tanks	1968	215824
L	375m E	Tanks	1975	221295
I	381m E	Unspecified Tank	1989	217878
I	382m E	Unspecified Tank	1975	217878
I	383m E	Unspecified Tank	1993	217878
I	396m E	Unspecified Tank	1989	213314
I	397m E	Unspecified Tank	1993	213314
L	418m E	Tanks	1989	209808





ID	Location	Land Use	Date	Group ID
L	419m E	Tanks	1975	221372
L	419m E	Tanks	1993	209808
O	423m NE	Unspecified Tank	1993	212893
O	424m NE	Unspecified Tank	1984	212893
L	430m E	Tanks	1975	216809
L	433m E	Tanks	1975	217034
O	434m NE	Unspecified Tank	1993	218556
O	434m NE	Unspecified Tank	1984	218556
L	437m E	Tanks	1975	211685
P	441m E	Unspecified Tank	1993	218305
P	442m E	Unspecified Tank	1984	218305
L	443m E	Tanks	1984	218529
L	444m E	Unspecified Tank	1989	214260
L	445m E	Tanks	1968	209581
L	445m E	Unspecified Tank	1993	212041
L	445m E	Unspecified Tank	1975	214260
O	447m NE	Unspecified Tank	1993	202973
N	450m E	Unspecified Tank	1984	208203
N	452m E	Unspecified Tank	1984	219625
N	452m E	Unspecified Tank	1989	208203
N	453m E	Unspecified Tank	1968	208203
N	454m E	Unspecified Tank	1975	208203
N	454m E	Unspecified Tank	1993	208203
3	454m SE	Unspecified Tank	1997	202988
N	454m E	Unspecified Tank	1968	219625
N	454m E	Tanks	1975	206198
L	465m E	Tanks	1989	220696
L	466m E	Tanks	1993	217966



ID	Location	Land Use	Date	Group ID
L	466m E	Tanks	1975	209428
L	466m E	Tanks	1968	217966
P	473m E	Tanks	1989	208661
P	474m E	Unspecified Tank	1984	219154
P	474m E	Tanks	1993	208661
P	475m E	Tanks	1975	217235
P	475m E	Unspecified Tank	1993	219154
L	475m E	Tanks	1989	212396
L	475m E	Tanks	1984	215576
L	476m E	Tanks	1993	212009
L	476m E	Tanks	1975	207531
Q	477m NE	Unspecified Tank	1993	215707
Q	477m NE	Unspecified Tank	1984	215707
L	477m E	Tanks	1968	215576
R	478m SE	Tanks	1997	221420
L	479m E	Tanks	1993	209783
R	480m SE	Tanks	1980	217033
L	481m E	Tanks	1968	209783
R	481m SE	Tanks	1975	216645
L	484m E	Tanks	1975	206199
R	485m E	Unspecified Tank	1989	212299
P	485m E	Unspecified Tank	1989	202982
R	486m E	Unspecified Tank	1975	210591
R	486m E	Unspecified Tank	1993	212299
R	487m SE	Tanks	1997	206322
P	487m E	Tanks	1975	218689
P	487m E	Tanks	1993	218689
R	491m E	Unspecified Tank	1989	220665





ID	Location	Land Use	Date	Group ID
R	493m E	Unspecified Tank	1993	220665
R	493m E	Unspecified Tank	1975	220665
R	495m SE	Tanks	1975	213042
L	496m E	Tanks	1993	219998
R	496m SE	Tanks	1975	207796
R	498m E	Unspecified Tank	1989	208777
R	499m E	Unspecified Tank	1975	211000
R	499m E	Unspecified Tank	1993	211000

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

## 2.3 Historical energy features

**Records within 500m**

**0**

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'.

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

## 2.4 Historical petrol stations

**Records within 500m**

**0**

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

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

## 2.5 Historical garages

**Records within 500m**

**0**

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

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



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites

### 3.1 Active or recent landfill

**Records within 500m** **0**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.  
*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.2 Historical landfill (BGS records)

**Records within 500m** **0**

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.  
*This data is sourced from the British Geological Survey.*



### 3.3 Historical landfill (LA/mapping records)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

### 3.4 Historical landfill (EA/NRW records)

<b>Records within 500m</b>	<b>1</b>
----------------------------	----------

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 35**

ID	Location	Details		
1	223m NW	Site Address: South of the Seal Sands Road, Adjacent to the Monsanto site Licence Holder Address: -	Waste Licence: Yes Site Reference: CLE/R4/1, 0700/R4, CLE/170/1 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/03/1977 Licence Surrender: -	Operator: - Licence Holder: Cleveland County Council First Recorded 31/12/1973 Last Recorded: 31/12/1978

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

### 3.5 Historical waste sites

<b>Records within 500m</b>	<b>1</b>
----------------------------	----------

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 35**

ID	Location	Address	Further Details	Date
2	240m W	Site Address: Huntsman Drive, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Type of Site: Energy From Waste Facility Planning application reference: 15/0333/EIS Description: Scheme comprises development of a fuel handling Building adjacent to the Materials Recycling facility. The associated works include sewer systems, landscaping, infrastructure, enabling and access roads. The associated works include sewer systems, landscaping, infrastructure, enabling and access roads. Data source: Historic Planning Application Data Type: Point	12/05/2015

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

### 3.6 Licensed waste sites

<b>Records within 500m</b>	<b>3</b>
----------------------------	----------

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

Features are displayed on the Waste and landfill map on **page 35**

ID	Location	Details		
A	300m S	Site Name: Reclamation Ponds Site Site Address: Reclamation Ponds Site, North Tees Access, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: IMP049 EPR reference: EA/EPR/DB3034RK/A001 Operator: Impetus Waste Management Limited Waste Management licence No: 103542 Annual Tonnage: 74999	Issue Date: 28/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
A	300m S	Site Name: Reclamation Ponds Site Site Address: Reclamation Ponds Site, North Tees Access Road, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: IMP049 EPR reference: EA/EPR/DB3034RK/V002 Operator: North Tees Waste Management Limited Waste Management licence No: 103542 Annual Tonnage: 74999	Issue Date: 28/03/2012 Effective Date: - Modified: 09/06/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
3	378m W	Site Name: Reclamation Pond Phase 4 Development Site Address: Reclamation Pond Phase 4 Development, Huntsman Drive, Port Clarence, Stockton On Tees, Cleveland, TS2 1TT Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR006 EPR reference: EA/EPR/GB3508LD/A001 Operator: North Tees Remediation Limited Waste Management licence No: 405092 Annual Tonnage: 499999	Issue Date: 24/09/2020 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

### 3.7 Waste exemptions

**Records within 500m**

**0**

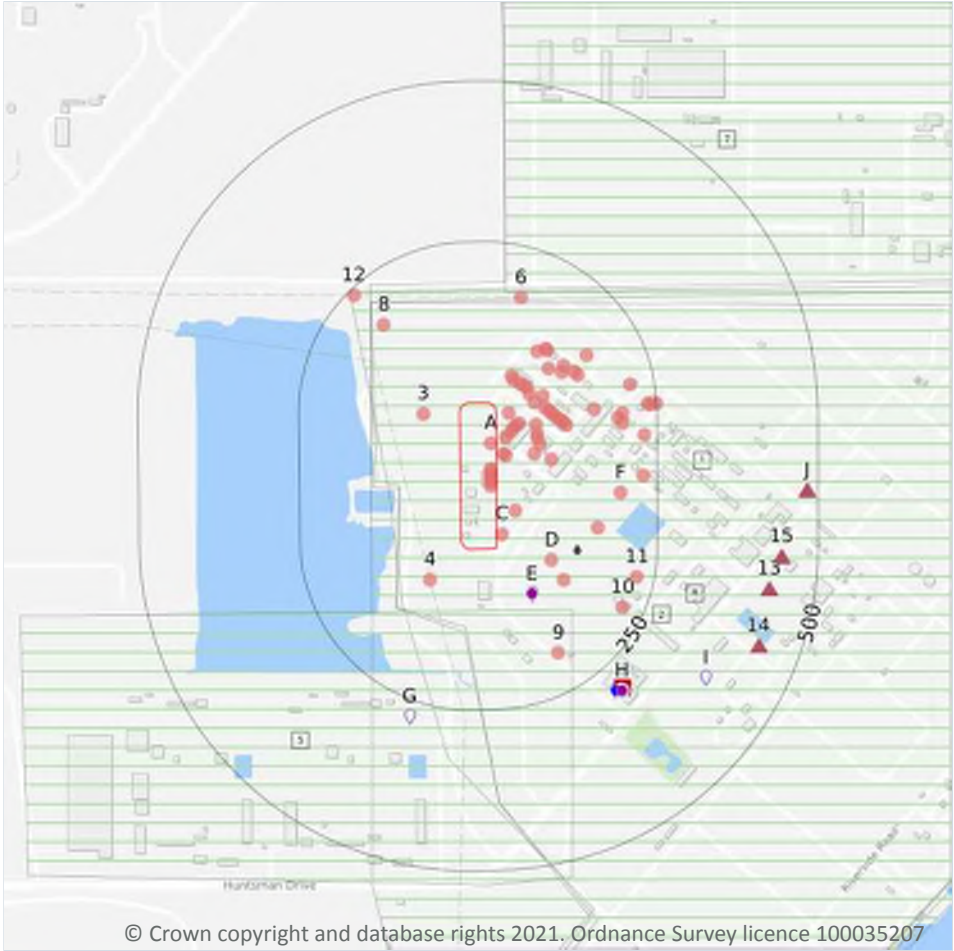
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

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





## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ◊ Part A(1) industrial activities
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- Pollution inventory substances
- Pollution inventory waste transfers

### 4.1 Recent industrial land uses

**Records within 250m** **71**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39**

ID	Location	Company	Address	Activity	Category
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	On site	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
C	9m E	Electricity Sub Station	Durham, TS2	Electrical Features	Infrastructure and Facilities
A	10m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	14m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	15m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	20m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	22m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	26m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
C	29m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	31m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	35m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	51m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	53m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	54m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	55m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
3	57m W	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	57m E	Chimney	Durham, TS2	Chimneys	Industrial Features
A	58m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	58m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	61m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	61m E	Pipe Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	63m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	63m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	68m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
4	74m SW	Pylon	Durham, TS2	Electrical Features	Infrastructure and Facilities
A	76m E	Pipe Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	76m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	82m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	85m E	Pipe Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	86m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
D	88m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	91m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	96m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	101m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	103m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	105m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	108m NE	Pipe Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	109m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
D	115m SE	Flare Stack	Durham, TS2	Gas Features	Infrastructure and Facilities
A	117m NE	Pipe Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	120m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	120m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	125m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	134m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	137m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	152m E	Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
D	157m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	164m NE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features





ID	Location	Company	Address	Activity	Category
6	171m N	Pylon	Durham, TS2	Electrical Features	Infrastructure and Facilities
8	176m NW	Pylon	Durham, TS2	Electrical Features	Infrastructure and Facilities
A	189m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
9	190m SE	Electricity Sub Station	Durham, TS2	Electrical Features	Infrastructure and Facilities
F	193m E	Gantry	Durham, TS2	Travelling Cranes and Gantries	Industrial Features
A	196m E	Chimney	Durham, TS2	Chimneys	Industrial Features
A	196m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	213m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
10	217m SE	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
11	223m E	Electricity Sub Station	Durham, TS2	Electrical Features	Infrastructure and Facilities
F	228m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	229m E	Chimney	Durham, TS2	Chimneys	Industrial Features
A	236m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
A	239m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features
12	241m NW	Pylon	Durham, TS2	Electrical Features	Infrastructure and Facilities
A	250m E	Tank	Durham, TS2	Tanks (Generic)	Industrial Features

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*



### 4.3 Electricity cables

Records within 500m 0

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

### 4.4 Gas pipelines

Records within 500m 0

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

### 4.5 Sites determined as Contaminated Land

Records within 500m 0

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

*This data is sourced from Local Authority records.*

### 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m 6

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 39**

ID	Location	Company	Address	Operational status	Tier
1	On site	Growhow Uk Ltd	Growhow Uk Ltd, North Tees, Huntsman Drive, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Historical NIHHS Site	-
2	On site	CF Fertilisers UK Limited	CF Fertilisers UK Limited, North Tees, Huntsman Drive, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Current COMAH Site	COMAH Upper Tier Operator
B	On site	Greenergy Terminals Limited	Greenergy Terminals Limited, North Tees, North Tees Oil Refinery & Road Rail Terminal, Seaton Road, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Historical NIHHS Site	-

ID	Location	Company	Address	Operational status	Tier
B	On site	SABIC UK Petrochemicals Limited	SABIC UK Petrochemicals Limited, North Tees, North Tees Site, Seaton Road, Port Clarence, Cleveland, TS2 1TT	Current COMAH Site	COMAH Upper Tier Operator
5	95m S	Air Products (BR) Limited	Air Products (BR) Limited, Middlesbrough, Huntsman Drive, Middlesbrough, Cleveland, TS2 1SD	Current COMAH Site	COMAH Lower Tier Operator
7	175m N	INEOS Nitriles (UK) Limited	INEOS Nitriles (UK) Limited, Seal Sands Chemical Works, PO Box 62, Middlesbrough, Cleveland, TS2 1TX	Historical 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

5

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 39**

ID	Location	Details	
13	428m E	Application reference number: 92/2210/H Application status: Historical Consent Application date: 12/11/1992 Address: ICI+G74, North Tees Site, Port Clarence, TS2 1SF	Details: Storage of ammonia, hydrogen, LPG, carbon monoxide and gases (entry nos.69-71) Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	434m E	Application reference number: 95/1992/H Application status: Historical Consent Application date: 07/12/1995 Address: ICI, North Tees Works, Port Clarence, TS2 1SF	Details: Installation of a new unit processing flammable substances, previous consent permits 76270 tonnes of flammable substances. Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified





ID	Location	Details	
15	443m E	Application reference number: 97/2199/H Application status: Historical Consent Application date: 18/06/1998 Address: Terra Nitrogen, North Tees Works, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Details: Continuation of storage of up to 72000 tonnes of ammonia following change in ownership Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
J	483m E	Application reference number: 05/0166/HAZ Application status: Historical Consent Application date: 17/01/2005 Address: Huntsman Petrochemicals UK Limited, Huntsman Drive, Seal Sands, Middlesbrough, TS2 1TT	Details: Variation of existing consent for one new vessel on the Aromatics complex containing flammable substances held above the boiling point, changes of duty of some tanks storing petroleum products and a change in classification of a petroleum substance. Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
J	483m E	Application reference number: 03/1098/H Application status: Historical Consent Application date: 02/07/2003 Address: Huntsman Petrochemicals UK Limited, North Tees Site, Huntsman Drive, Port Clarence, TS10 1TT	Details: Variation of existing consent for the continued use of acquired inventories of hydrogen, LPG, flammable gases and liquids Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m**

**38**

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 39**

ID	Location	Details	
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: AF7215	Original Permit Number: IPCAIRAPP Date Approved: 7-4-1993 Effective Date: 7-4-1993 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: AF8319	Original Permit Number: IPCAIRAPP Date Approved: 7-4-1993 Effective Date: 7-4-1993 Status: Superseded By Variation



ID	Location	Details	
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: AJ3158	Original Permit Number: IPCMINVAR Date Approved: 21-12-1994 Effective Date: 21-12-1994 Status: Superseded By Variation
H	295m SE	Operator: Sabc UK Petrochemicals Address: The Cumene Site, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petrochemical Processes Permit Number: AK7752	Original Permit Number: IPCAIRAPP Date Approved: 25-3-1994 Effective Date: 25-3-1994 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AK7841	Original Permit Number: IPCAIRAPP Date Approved: 21-3-1994 Effective Date: 28-3-1994 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AN4296	Original Permit Number: IPCMINVAR Date Approved: 6-9-1994 Effective Date: 1-10-1994 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AP0810	Original Permit Number: IPCMINVAR Date Approved: 2-12-1994 Effective Date: 16-12-1994 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: AT3523	Original Permit Number: IPCMAJVAR Date Approved: 9-1-1996 Effective Date: 10-1-1996 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AT6883	Original Permit Number: IPCMINVAR Date Approved: 13-11-1995 Effective Date: 13-12-1995 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AU2484	Original Permit Number: IPCMINVAR Date Approved: 21-3-1996 Effective Date: 1-4-1996 Status: Superseded By Variation
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: AV1874	Original Permit Number: IPCMINVAR Date Approved: 21-3-1996 Effective Date: 1-4-1996 Status: Superseded By Variation



ID	Location	Details	
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: AV7031	Original Permit Number: IPCMINVAR Date Approved: 10-6-1996 Effective Date: 17-6-1996 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AV8046	Original Permit Number: IPCMINVAR Date Approved: 26-6-1996 Effective Date: 19-7-1996 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: AV8054	Original Permit Number: IPCMINVAR Date Approved: 12-6-1996 Effective Date: 30-6-1996 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: AW0318	Original Permit Number: IPCMINVAR Date Approved: 21-3-1997 Effective Date: 24-3-1997 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: AW1403	Original Permit Number: IPCMAJVAR Date Approved: 11-10-1996 Effective Date: 10-11-1996 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: AW2167	Original Permit Number: IPCMINVAR Date Approved: 20-6-1997 Effective Date: 10-7-1997 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: The Cumene Site, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petrochemical Processes Permit Number: BA2377	Original Permit Number: IPCMINVAR Date Approved: 28-1-1998 Effective Date: 1-3-1998 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BA3071	Original Permit Number: IPCMINVAR Date Approved: 24-12-1997 Effective Date: 1-1-1998 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BC1576	Original Permit Number: IPCMINVAR Date Approved: 9-10-1998 Effective Date: 9-10-1998 Status: Superseded By Variation





ID	Location	Details	
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BD6336	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: BD6506	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: The Cumene Site, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petrochemical Processes Permit Number: BE2301	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BE6439	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BG7479	Original Permit Number: IPCMINVAR Date Approved: 6-8-1999 Effective Date: 6-8-1999 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BG7487	Original Permit Number: IPCMINVAR Date Approved: 27-9-1999 Effective Date: 14-10-1999 Status: Superseded By Variation
H	295m SE	Operator: Sabic UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BI3385	Original Permit Number: IPCMINVAR Date Approved: 18-4-2000 Effective Date: 19-4-2000 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BI8794	Original Permit Number: IPCMINVAR Date Approved: 30-6-2000 Effective Date: 30-6-2000 Status: Superseded By Variation
H	295m SE	Operator: Huntsman Polyurethanes (UK) Ltd Address: Aniline Plant, PO Box 54, Wilton, Middlesbrough, Cleveland, TS90 8JA Process: Manufacture And Use Of Organic Chemicals Permit Number: BI9251	Original Permit Number: IPCMINVAR Date Approved: 1-11-2000 Effective Date: 6-11-2000 Status: Revoked - Now Ippc



ID	Location	Details	
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BK8273	Original Permit Number: IPCMINVAR Date Approved: 19-4-2001 Effective Date: 19-4-2001 Status: Superseded By Variation
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BL8244	Original Permit Number: IPCMINVAR Date Approved: 24-8-2001 Effective Date: 24-8-2001 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BT0863	Original Permit Number: IPCMINVAR Date Approved: 12-12-2002 Effective Date: 1-1-2003 Status: Superseded By Variation
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BT2556	Original Permit Number: IPCMINVAR Date Approved: 17-9-2002 Effective Date: 17-9-2002 Status: Superseded By Variation
H	295m SE	Operator: Sabc UK Petrochemicals Address: No1 Aromatics Complex, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT Process: Petroleum Processes Permit Number: BT7841	Original Permit Number: IPCMINVAR Date Approved: 12-12-2002 Effective Date: 1-1-2003 Status: Revoked - Now Ippc
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BU6174	Original Permit Number: IPCMINVAR Date Approved: 8-5-2003 Effective Date: 9-5-2003 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BX6464	Original Permit Number: IPCMINVAR Date Approved: 5-10-2004 Effective Date: 8-10-2004 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: BY3878	Original Permit Number: IPCMINVAR Date Approved: 5-11-2004 Effective Date: 5-11-2004 Status: Superseded By Variation
H	295m SE	Operator: Petroplus Refining Teesside Ltd Address: North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT Process: Petroleum Processes Permit Number: CA7926	Original Permit Number: IPCMINVAR Date Approved: 28-9-2006 Effective Date: 29-9-2006 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

68

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 39**

ID	Location	Details	
E	90m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: SABIC NORTH TEES STORAGE - EPR/LP3335RM Process: ASSOCIATED PROCESS Permit Number: LP3335RM Original Permit Number: LP3335RM	EPR Reference: - Issue Date: 20/09/2016 Effective Date: 20/09/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
E	90m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: SABIC NORTH TEES STORAGE - EPR/LP3335RM Process: COMBUSTION; ANY FUEL =>50MW Permit Number: ZP3330QG Original Permit Number: LP3335RM	EPR Reference: - Issue Date: 14/02/2019 Effective Date: 14/02/2019 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
E	90m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: SABIC NORTH TEES STORAGE - EPR/LP3335RM Process: COMBUSTION; ANY FUEL =>50MW Permit Number: LP3335RM Original Permit Number: LP3335RM	EPR Reference: - Issue Date: 20/09/2016 Effective Date: 20/09/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
E	90m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: SABIC NORTH TEES STORAGE - EPR/LP3335RM Process: ASSOCIATED PROCESS Permit Number: ZP3330QG Original Permit Number: LP3335RM	EPR Reference: - Issue Date: 14/02/2019 Effective Date: 14/02/2019 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
G	275m S	Operator: AIR PRODUCTS PLC Installation Name: TEES VALLEY RENEWABLE ENERGY FACILITY Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: JP3331HK Original Permit Number: JP3331HK	EPR Reference: - Issue Date: 20/04/2012 Effective Date: 20/04/2012 Last date noted as effective: 01/07/2021 Status: SUPERCEDED





ID	Location	Details	
G	275m S	Operator: AIR PRODUCTS PLC Installation Name: TEES VALLEY RENEWABLE ENERGY FACILITY Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: UP3434EP Original Permit Number: JP3331HK	EPR Reference: - Issue Date: 06/12/2013 Effective Date: 06/12/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
G	275m S	Operator: AIR PRODUCTS PLC Installation Name: TEES VALLEY RENEWABLE ENERGY FACILITY Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: UP3434EP Original Permit Number: JP3331HK	EPR Reference: - Issue Date: 06/12/2013 Effective Date: 06/12/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
G	275m S	Operator: AIR PRODUCTS PLC Installation Name: TEES VALLEY RENEWABLE ENERGY FACILITY Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: JP3331HK Original Permit Number: JP3331HK	EPR Reference: - Issue Date: 20/04/2012 Effective Date: 20/04/2012 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
G	275m S	Operator: AIR PRODUCTS PLC Installation Name: TEES VALLEY RENEWABLE ENERGY FACILITY Process: ASSOCIATED PROCESS Permit Number: UP3434EP Original Permit Number: JP3331HK	EPR Reference: - Issue Date: 06/12/2013 Effective Date: 06/12/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	288m SE	Operator: ANGLIAN WATER SERVICES LIMITED Installation Name: NORTH TEES AROMATICS Process: ASSOCIATED PROCESS Permit Number: FP3234QW Original Permit Number: BU5771IB	EPR Reference: - Issue Date: - Effective Date: 06/03/2019 Last date noted as effective: 01/07/2021 Status: SURRENDER EFFECTIVE
H	295m SE	Operator: BOC LIMITED Installation Name: BOC HYDROGEN PLANT - EPR/BJ7522IJ Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: LP3534DV Original Permit Number: BJ7522IJ	EPR Reference: - Issue Date: 04/01/2017 Effective Date: 04/01/2017 Last date noted as effective: 01/07/2021 Status: EFFECTIVE



ID	Location	Details	
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: REFINING MINERAL OILS Permit Number: HP3839FX Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 15/08/2011 Effective Date: 15/08/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: GREENERGY TERMINALS LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/YP3031CC Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: YP3031CC Original Permit Number: YP3031CC	EPR Reference: - Issue Date: 25/07/2012 Effective Date: 25/07/2012 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: GREENERGY TERMINALS LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/YP3031CC Process: REFINING MINERAL OILS Permit Number: YP3031CC Original Permit Number: YP3031CC	EPR Reference: - Issue Date: 25/07/2012 Effective Date: 25/07/2012 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: GREENERGY TERMINALS LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/YP3031CC Process: GASIFICATION, LIQUIFAC. AND REFINING; BLENDING ODORANT FOR NATURAL GAS/LPG Permit Number: DP3831NA Original Permit Number: YP3031CC	EPR Reference: - Issue Date: 01/10/2013 Effective Date: 01/10/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: GREENERGY TERMINALS LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/YP3031CC Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL Permit Number: DP3831NA Original Permit Number: YP3031CC	EPR Reference: - Issue Date: 01/10/2013 Effective Date: 01/10/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: GREENERGY TERMINALS LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/YP3031CC Process: LOADING/STORAGE/TREATMENT ETC OF STABILISED CRUDE PETROLEUM Permit Number: YP3031CC Original Permit Number: YP3031CC	EPR Reference: - Issue Date: 25/07/2012 Effective Date: 25/07/2012 Last date noted as effective: 01/07/2021 Status: SUPERCEDED



ID	Location	Details	
H	295m SE	Operator: NAVIGATOR TERMINALS NORTH TEES LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD/RAIL TERMINAL - EPR/FP3433DX Process: GASIFICATION, LIQUIFAC. AND REFINING; BLENDING ODORANT FOR NATURAL GAS/LPG Permit Number: FP3433DX Original Permit Number: FP3433DX	EPR Reference: - Issue Date: 10/06/2016 Effective Date: 10/06/2016 Last date noted as effective: 01/07/2021 Status: TRANSFER EFFECTIVE
H	295m SE	Operator: BOC LIMITED Installation Name: SEAL SANDS BOC HYDROGEN PLANT Process: GASIFICATION, LIQUIFAC. AND REFINING; REFORMING NATURAL GAS Permit Number: BJ7522IJ Original Permit Number: BJ7522IJ	EPR Reference: - Issue Date: 19/10/2001 Effective Date: 19/10/2001 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: HP3839FX Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 15/08/2011 Effective Date: 15/08/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: MP3833GP Original Permit Number: NP3733LM	EPR Reference: EA/EPR/NP3733LM/V003 Issue Date: 17/12/2009 Effective Date: 18/12/2009 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: LOADING/STORAGE/TREATMENT ETC OF STABILISED CRUDE PETROLEUM Permit Number: MP3833GP Original Permit Number: NP3733LM	EPR Reference: EA/EPR/NP3733LM/V003 Issue Date: 17/12/2009 Effective Date: 18/12/2009 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: NP3733LM Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 31/10/2007 Effective Date: 31/10/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED





ID	Location	Details	
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: LOADING/STORAGE/TREATMENT ETC OF STABILISED CRUDE PETROLEUM Permit Number: NP3733LM Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 31/10/2007 Effective Date: 31/10/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: LOADING/STORAGE/TREATMENT ETC OF STABILISED CRUDE PETROLEUM Permit Number: SP3639XG Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 17/12/2007 Effective Date: 17/12/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: TP3439BX Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/11/2004 Effective Date: 05/11/2004 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: NAVIGATOR TERMINALS NORTH TEES LIMITED Installation Name: NORTH TEES OIL REFINERY & ROAD/RAIL TERMINAL - EPR/FP3433DX Process: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL Permit Number: FP3433DX Original Permit Number: FP3433DX	EPR Reference: - Issue Date: 10/06/2016 Effective Date: 10/06/2016 Last date noted as effective: 01/07/2021 Status: TRANSFER EFFECTIVE
H	295m SE	Operator: BOC LIMITED Installation Name: SEAL SANDS BOC HYDROGEN PLANT Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: QP3837ZG Original Permit Number: BJ7522IJ	EPR Reference: - Issue Date: 24/05/2013 Effective Date: 24/05/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: HUNTSMAN PETROCHEMICALS (UK) LTD Installation Name: - Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BU4503 Original Permit Number: BU4503	EPR Reference: - Issue Date: 23/02/2004 Effective Date: 23/02/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
H	295m SE	Operator: BOC GROUP PLC Installation Name: - Process: GASIFICATION, LIQUIFAC. & REFINING; REFORMING NATURAL GAS Permit Number: BJ7522 Original Permit Number: BJ7522	EPR Reference: - Issue Date: 19/10/2001 Effective Date: 19/10/2001 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
H	295m SE	Operator: HUNTSMAN PETROCHEMICALS (UK) LTD Installation Name: - Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: BU4503 Original Permit Number: BU4503	EPR Reference: - Issue Date: 23/02/2004 Effective Date: 23/02/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: LOADING/STORAGE/TREATMENT ETC OF STABILISED CRUDE PETROLEUM Permit Number: HP3839FX Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 15/08/2011 Effective Date: 15/08/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: REFINING MINERAL OILS Permit Number: MP3833GP Original Permit Number: NP3733LM	EPR Reference: EA/EPR/NP3733LM/V003 Issue Date: 17/12/2009 Effective Date: 18/12/2009 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: REFINING MINERAL OILS Permit Number: NP3733LM Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 31/10/2007 Effective Date: 31/10/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: SP3639XG Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 17/12/2007 Effective Date: 17/12/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: PETROPLUS REFINING TEESSIDE LTD Installation Name: NORTH TEES OIL REFINERY & ROAD RAIL TERMINAL EPR/NP3733LM Process: REFINING MINERAL OILS Permit Number: SP3639XG Original Permit Number: NP3733LM	EPR Reference: - Issue Date: 17/12/2007 Effective Date: 17/12/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED



ID	Location	Details	
H	295m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BU4503IW Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 23/02/2004 Effective Date: 23/02/2004 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BU4503IW Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 23/02/2004 Effective Date: 23/02/2004 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
H	295m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: TP3439BX Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/11/2004 Effective Date: 05/11/2004 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: SP3235RT Original Permit Number: BU4503IW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2016 Status: DETERMINATION
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ASSOCIATED PROCESS Permit Number: SP3235RT Original Permit Number: BU4503IW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2016 Status: DETERMINATION
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: SP3235RT Original Permit Number: BU4503IW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2016 Status: DETERMINATION
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: SP3235RT Original Permit Number: BU4503IW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2016 Status: DETERMINATION





ID	Location	Details	
I	382m SE	Operator: ANGLIAN WATER SERVICES LTD Installation Name: NORTH TEES AROMATICS - EPR/BU5771IB Process: ASSOCIATED PROCESS Permit Number: BU5771IB Original Permit Number: BU5771IB	EPR Reference: - Issue Date: 28/11/2003 Effective Date: 28/11/2003 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: ANGLIAN WATER SERVICES LTD Installation Name: - Process: ASSOCIATED PROCESS Permit Number: BU5771 Original Permit Number: BU5771	EPR Reference: - Issue Date: 28/11/2003 Effective Date: 28/11/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ASSOCIATED PROCESS Permit Number: XP3438EF Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 25/11/2013 Effective Date: 25/11/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ASSOCIATED PROCESS Permit Number: YP3736RL Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/02/2016 Effective Date: 05/02/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: YP3736RL Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/02/2016 Effective Date: 05/02/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: YP3736RL Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/02/2016 Effective Date: 05/02/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: EP3430BY Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 12/01/2005 Effective Date: 14/01/2005 Last date noted as effective: 01/07/2021 Status: SUPERCEDED



ID	Location	Details	
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: TP3231MY Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 29/01/2007 Effective Date: 01/02/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: XP3239LV Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 31/01/2006 Effective Date: 30/01/2006 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: HP3039XK Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 01/01/2008 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: XP3438EF Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 25/11/2013 Effective Date: 25/11/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: AP3039FG Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 14/12/2011 Effective Date: 14/12/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO- CHEMICAL TREATMENT Permit Number: SP3735RR Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/07/2016 Effective Date: 21/07/2016 Last date noted as effective: 01/07/2021 Status: EFFECTIVE



ID	Location	Details	
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: YP3736RL Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 05/02/2016 Effective Date: 05/02/2016 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: TP3231MY Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 29/01/2007 Effective Date: 01/02/2007 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ASSOCIATED PROCESS Permit Number: SP3735RR Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/07/2016 Effective Date: 21/07/2016 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: AP3039FG Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 14/12/2011 Effective Date: 14/12/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: AP3039FG Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 14/12/2011 Effective Date: 14/12/2011 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: EP3430BY Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 12/01/2005 Effective Date: 14/01/2005 Last date noted as effective: 01/07/2021 Status: SUPERCEDED





ID	Location	Details	
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: HP3039XK Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/12/2007 Effective Date: 01/01/2008 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: XP3239LV Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 31/01/2006 Effective Date: 30/01/2006 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: SP3735RR Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/07/2016 Effective Date: 21/07/2016 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: SP3735RR Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 21/07/2016 Effective Date: 21/07/2016 Last date noted as effective: 01/07/2021 Status: EFFECTIVE
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: XP3438EF Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 25/11/2013 Effective Date: 25/11/2013 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
I	382m SE	Operator: SABIC UK PETROCHEMICALS LIMITED Installation Name: NORTH TEES AROMATICS EPR/BU4503IW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: XP3438EF Original Permit Number: BU4503IW	EPR Reference: - Issue Date: 25/11/2013 Effective Date: 25/11/2013 Last date noted as effective: 01/07/2021 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**
**0**

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.

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

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

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 39**

ID	Location	Address	Details	
H	295m SE	The North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Sabic UK Petrochemicals Limited Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: CB1567 Date of approval: 03/09/2007	Effective from: 03/09/2007 Last date of update: 01/01/2020 Status: Issued
H	295m SE	The North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Sabic UK Petrochemicals Limited Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: CB1575 Date of approval: 21/08/2007	Effective from: 21/08/2007 Last date of update: 01/01/2020 Status: Issued
H	295m SE	Imperial Chemical Industries Plc, Boc Ltd, north Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Operator: Imperial Chemical Industries Plc Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AZ1124 Date of approval: 22/08/1997	Effective from: 22/08/1997 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	295m SE	Imperial Chemical Industries Plc, Boc Ltd, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Operator: Imperial Chemical Industries Plc Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AZ1132 Date of approval: 22/08/1997	Effective from: 22/09/1997 Last date of update: 01/01/2015 Status: Revoked/cancelled



ID	Location	Address	Details	
H	295m SE	Petroplus Refining Teesside Ltd, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Petroplus Refining Teesside Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BL8147 Date of approval: 07/01/2002	Effective from: 04/02/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
H	295m SE	Petroplus Refining Teesside Ltd, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Petroplus Refining Teesside Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BL8147 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	295m SE	Petroplus Refining Teesside Ltd, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Petroplus Refining Teesside Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BL8155 Date of approval: 07/01/2002	Effective from: 07/01/2002 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	295m SE	Sabic Uk Petrochemicals, Boc Ltd, north Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Operator: Sabic Uk Petrochemicals Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BG6596 Date of approval: 20/09/1999	Effective from: 20/09/1999 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	295m SE	Sabic Uk Petrochemicals, Boc Ltd, North Tees Works, Port Clarence, Middlesbrough, Cleveland, TS2 1TT	Operator: Sabic Uk Petrochemicals Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BG6618 Date of approval: 20/09/1999	Effective from: 20/10/1999 Last date of update: 01/01/2015 Status: Revoked/cancelled
H	295m SE	Sabic Uk Petrochemicals Ulc, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Sabic Uk Petrochemicals Ulc Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BT5466 Date of approval: 03/12/2002	Effective from: 03/12/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
H	295m SE	Sabic Uk Petrochemicals, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Sabic Uk Petrochemicals Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BT5482 Date of approval: 03/12/2002	Effective from: 03/01/2003 Last date of update: 01/01/2015 Status: Superseded By Variation





ID	Location	Address	Details	
H	295m SE	Sabic Uk Petrochemicals, North Tees Site, Seaton Road, Port Clarence, Middlesbrough, TS2 1TT	Operator: Sabic Uk Petrochemicals Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BT5482 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation

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

### 4.13 Licensed Discharges to controlled waters

<b>Records within 500m</b>	<b>1</b>
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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 39**

ID	Location	Address	Details	
D	125m E	AMMONIA STORAGE AREA, NORTH TEES WO, BILLINGHAM	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 254/B/0212 Permit Version: 1 Receiving Water: TEES	Status: REVOKED - UNSPECIFIED Issue date: 06/07/1976 Effective Date: 06/07/1976 Revocation Date: 21/04/1983

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

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

<b>Records within 500m</b>	<b>0</b>
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

### 4.15 Pollutant release to public sewer

<b>Records within 500m</b>	<b>0</b>
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Discharges of Special Category Effluents to the public sewer.

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

## 4.16 List 1 Dangerous Substances

Records within 500m

2

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 39**

ID	Location	Name	Status	Receiving Water	Authorised Substances
H	292m SE	Huntsman Petrochemicals Uk Ltd, Ts2 1tt	Not Active	Tees Estuary, River Tees	Mercury (other), Cadmium
H	292m SE	Huntsmen Petrochemicals (uk) Ltd North Tees Seaton Rd Ts2 1t	Active	Tees Estuary, River Tees	Mercury (other), Cadmium

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

## 4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

## 4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

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

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

## 4.19 Pollution inventory substances

Records within 500m

10

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 39**



ID: E, Location: 91m SE, Permit: LP3335RM  
 Operator: Sabc UK Petrochemicals Limited  
 Activity: COMBUSTION; ANY FUEL =>50MW  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Combustion, Sub-sector: Power  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	121000kg

ID: E, Location: 91m SE, Permit: FP3433DX  
 Operator: Navigator Terminals North Tees Limited  
 Activity: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	Below Reporting Threshold

ID: E, Location: 91m SE, Permit: LP3335RM  
 Operator: Sabc UK Petrochemicals Limited  
 Activity: COMBUSTION; ANY FUEL =>50MW  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Combustion, Sub-sector: Power  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	28690000kg

ID: E, Location: 91m SE, Permit: FP3433DX  
 Operator: Navigator Terminals North Tees Limited  
 Activity: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	17000kg





ID: E, Location: 91m SE, Permit: BU4503IW  
 Operator: Sabc UK Petrochemicals Limited  
 Activity: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	26100kg

ID: E, Location: 91m SE, Permit: BU4503IW  
 Operator: Sabc UK Petrochemicals Limited  
 Activity: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS  
 Address: Sabc North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Benzene	1000kg	Below Reporting Threshold
Controlled Waters	Benzene	10kg	Below Reporting Threshold
Controlled Waters	Cadmium	1kg	Below Reporting Threshold
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Controlled Waters	Ethyl benzene	10kg	Below Reporting Threshold
Controlled Waters	Mercury	0.1kg	Below Reporting Threshold
Air	Methane	10000kg	Below Reporting Threshold
Controlled Waters	Nitrogen - as total N	50000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO <sub>2</sub> ) as NO <sub>2</sub>	100000kg	Below Reporting Threshold
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Air	Sulphur oxides (SO <sub>2</sub> and SO <sub>3</sub> ) as SO <sub>2</sub>	100000kg	Below Reporting Threshold
Controlled Waters	Toluene	10kg	Below Reporting Threshold
Controlled Waters	Total organic carbon (TOC)	50000kg	Below Reporting Threshold
Controlled Waters	Xylene - all isomers	10kg	Below Reporting Threshold
Controlled Waters	Zinc	100kg	Below Reporting Threshold



ID: E, Location: 91m SE, Permit: LP3335RM  
 Operator: Sabic UK Petrochemicals Limited  
 Activity: COMBUSTION; ANY FUEL =>50MW  
 Address: Sabic North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Combustion, Sub-sector: Power  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cadmium	1kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Controlled Waters	Chromium	20kg	Below Reporting Threshold
Controlled Waters	Lead	20kg	Below Reporting Threshold
Controlled Waters	Mercury	0.1kg	Below Reporting Threshold
Air	Methane	10000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	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	Total organic carbon (TOC)	50000kg	Below Reporting Threshold

ID: H, Location: 289m SE, Permit: BU5771IB  
 Operator: Anglian Water Services Limited  
 Activity: ASSOCIATED PROCESS  
 Address: Sabic Petrochemicals North Tees Site Seaton Road Port Clarence TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Arsenic	5kg	0kg
Wastewater	Cadmium	1kg	0kg
Wastewater	Chlorides - as Cl	2000000kg	0kg
Wastewater	Copper	20kg	0kg
Wastewater	Lead	20kg	0kg
Wastewater	Mercury	0.1kg	0kg



ID: H, Location: 295m SE, Permit: BJ7522IJ  
 Operator: BOC Limited  
 Activity: INORGANIC CHEMICALS; GASES EG AMMONIA,  
 Address: NORTH TEES WORKS PORT CLARENCE BOC Hydrogen PLant CLEVELAND TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	219000000kg

ID: H, Location: 295m SE, Permit: BJ7522IJ  
 Operator: BOC Limited  
 Activity: INORGANIC CHEMICALS; GASES EG AMMONIA,  
 Address: NORTH TEES WORKS PORT CLARENCE BOC Hydrogen PLant CLEVELAND TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	Below Reporting Threshold
Air	Sulphur oxides (SO2 and SO3) as SO2	100000kg	Below Reporting Threshold

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

## 4.20 Pollution inventory waste transfers

**Records within 500m**

**4**

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 39**

ID: E, Location: 91m SE, Permit: BU4503IW  
 Operator: Sabic UK Petrochemicals Limited  
 Activity: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS  
 Address: Sabic North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:





Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	9052	Absolute Value	17 04 05	iron and steel	No
D1	Deposit into or onto land (eg landfill, etc.)	736	Absolute Value	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	86.84	Absolute Value	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	Below Reporting Threshold	20 01 38	wood other than that mentioned in 20 01 37	No
R1	Use principally as a fuel or other means to generate energy	-	Below Reporting Threshold	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	Below Reporting Threshold	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	2764	Absolute Value	20 03 04	septic tank sludge	No
R5	Recycling/reclamation of other inorganic materials	5.46	Absolute Value	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	No
R4	Recycling/reclamation of metals and metal compounds	280	Absolute Value	17 04 02	aluminium	No
R4	Recycling/reclamation of metals and metal compounds	198	Absolute Value	17 04 11	cables other than those mentioned in 17 04 10	No
R5	Recycling/reclamation of other inorganic materials	7776	Absolute Value	17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R5	Recycling/reclamation of other inorganic materials	1700	Absolute Value	17 01 01	concrete	No
R5	Recycling/reclamation of other inorganic materials	18.12	Absolute Value	17 04 01	copper, bronze, brass	No
R4	Recycling/reclamation of metals and metal compounds	6027	Absolute Value	17 04 07	mixed metals	No
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.)	44.52	Absolute Value	13 05 03	interceptor sludges	Yes
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.)	1.5	Absolute Value	07 01 04	other organic solvents, washing liquids and mother liquors	Yes
R1	Use principally as a fuel or other means to generate energy	685	Absolute Value	07 01 04	other organic solvents, washing liquids and mother liquors	Yes
D1	Deposit into or onto land (eg landfill, etc.)	761	Absolute Value	17 06 05	construction materials containing asbestos	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	1362	Absolute Value	17 03 01	bituminous mixtures containing coal tar	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	80.66	Absolute Value	17 06 01	insulation materials containing asbestos	Yes



ID: E, Location: 91m SE, Permit: FP3433DX  
 Operator: Navigator Terminals North Tees Limited  
 Activity: LOADING/STORAGE/TREATMENT ETC OF CRUDE OIL  
 Address: Sabic North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 Sector: Refineries & Fuel, Sub-sector: Refineries & Fuel  
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R5	Recycling/reclamation of other inorganic materials	-	Below Reporting Threshold	16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	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)	21.44	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)	-	Below Reporting Threshold	17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	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)	-	Below Reporting Threshold	17 02 01	wood	No
R4	Recycling/reclamation of metals and metal compounds	11.22	Absolute Value	17 04 07	mixed metals	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)	5.158	Absolute Value	20 01 01	paper and cardboard	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)	-	Below Reporting Threshold	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	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)	5.18	Absolute Value	20 01 38	wood other than that mentioned in 20 01 37	No





Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	-	Below Reporting Threshold	20 01 40	metals	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)	18.629	Absolute Value	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	49.8	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)	0.02	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)	0.06	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)	0.02	Absolute Value	13 07 03	other fuels (including mixtures)	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	418.43	Absolute Value	13 07 03	other fuels (including mixtures)	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)	1.455	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	98.5	Absolute Value	16 07 08	wastes containing oil	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)	22.92	Absolute Value	16 07 09	wastes containing other 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)	165	Absolute Value	17 05 03	soil and stones 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)	55	Absolute Value	17 09 03	other construction and demolition wastes (including mixed 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)	0.02	Absolute Value	20 01 21	fluorescent tubes and other mercury-containing waste	Yes

ID: E, Location: 91m SE, Permit: LP3335RM  
 Operator: Sabic UK Petrochemicals Limited  
 Activity: COMBUSTION; ANY FUEL =>50MW  
 Address: Sabic North Tees Storage North Tees Site Seaton Road Port Clarence Cleveland TS2 1TT  
 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)	10.29	Absolute Value	15 01 06	mixed packaging	No
R4	Recycling/reclamation of metals and metal compounds	-	Below Reporting Threshold	15 01 06	mixed packaging	No
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	-	Below Reporting Threshold	15 01 06	mixed packaging	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	6	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	963.62	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	73.08	Absolute Value	17 01 01	concrete	No
R4	Recycling/reclamation of metals and metal compounds	145.44	Absolute Value	17 04 05	iron and steel	No
R4	Recycling/reclamation of metals and metal compounds	5.56	Absolute Value	17 04 11	cables other than those mentioned in 17 04 10	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	16.86	Absolute Value	17 05 04	soil and stones other than those mentioned in 17 05 03	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	-	Below Reporting Threshold	17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	14.98	Absolute Value	17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03	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)	-	Below Reporting Threshold	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
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	7.24	Absolute Value	20 01 38	wood other than that mentioned in 20 01 37	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	Below Reporting Threshold	20 02 01	biodegradable waste	No
R1	Use principally as a fuel or other means to generate energy	51.37	Absolute Value	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	Below Reporting Threshold	20 03 01	mixed municipal waste	No
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	-	Below Reporting Threshold	20 03 01	mixed municipal waste	No
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.)	0.8	Absolute Value	06 02 04	sodium and potassium hydroxide	Yes
D10	Incineration on Land	46.44	Absolute Value	07 01 01	aqueous washing liquids and mother liquors	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	0.2	Absolute Value	12 01 16	waste blasting material containing dangerous substances	Yes
R9	Oil e-refining or other reuses of oil	14.9	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)	0.2	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	1.4	Absolute Value	13 05 08	mixtures of wastes from grit chambers and oil/water separators	Yes
R1	Use principally as a fuel or other means to generate energy	0.4	Absolute Value	13 07 01	fuel oil and diesel	Yes
D10	Incineration on Land	4.6	Absolute Value	15 01 10	packaging containing residues of or contaminated by 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)	3	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
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 numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	13.4	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
D10	Incineration on Land	1.8	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	0.78	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
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 numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	0.8	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	Yes
D10	Incineration on Land	15	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	1.6	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes
D10	Incineration on Land	0.6	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	Yes
D10	Incineration on Land	0.8	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	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)	1	Absolute Value	16 06 01	lead batteries	Yes
D10	Incineration on Land	1.8	Absolute Value	16 07 09	wastes containing other dangerous substances	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	147.22	Absolute Value	17 05 03	soil and stones containing dangerous substances	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	3.3	Absolute Value	17 06 01	insulation materials containing asbestos	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)	0.2	Absolute Value	20 01 33	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	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	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes





ID: H, Location: 295m SE, Permit: BJ7522IJ  
 Operator: BOC Limited  
 Activity: INORGANIC CHEMICALS; GASES EG AMMONIA  
 Address: NORTH TEES WORKS PORT CLARENCE BOC Hydrogen PLant CLEVELAND TS2 1TT  
 Sector: Chemicals, Sub-sector: Chemicals  
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	-	Below Reporting Threshold	20 03 01	mixed municipal waste	No
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
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	97.3	Absolute Value	20 03 04	septic tank sludge	No
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	30	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	No
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.)	0.42	Absolute Value	17 06 03	other insulation materials consisting of or 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)	0.2	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	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)	2.54	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	Yes
D10	Incineration on Land	0.96	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

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

## 4.21 Pollution inventory radioactive waste

**Records within 500m**

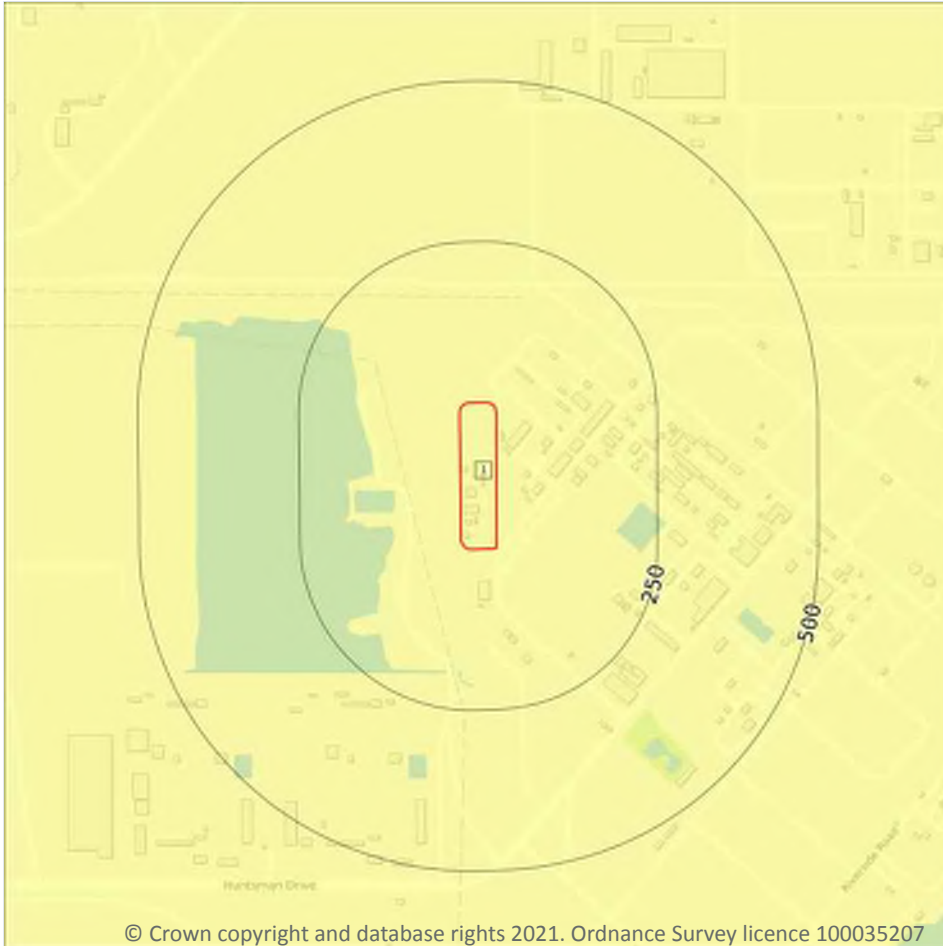
**0**

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

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### 5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

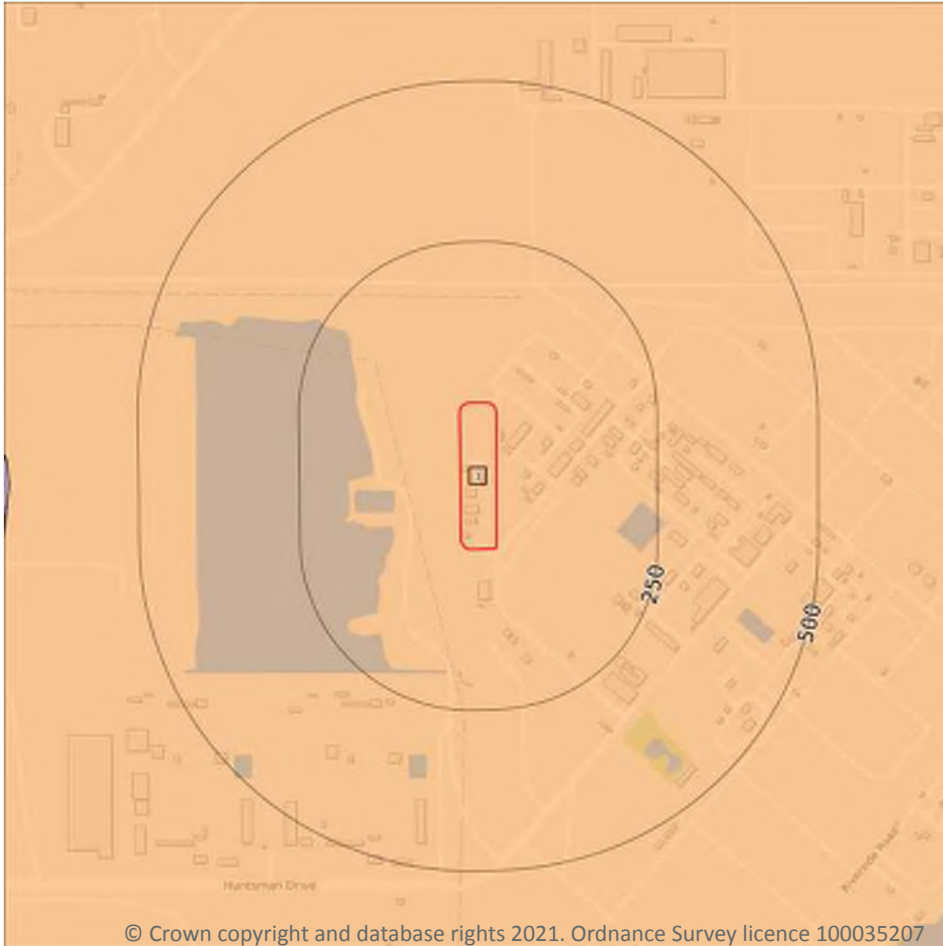
Features are displayed on the Hydrogeology map on **page 80**

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

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



## Bedrock aquifer



**Site Outline**

Search buffers in metres (m)

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

### 5.2 Bedrock aquifer

Records within 500m

1

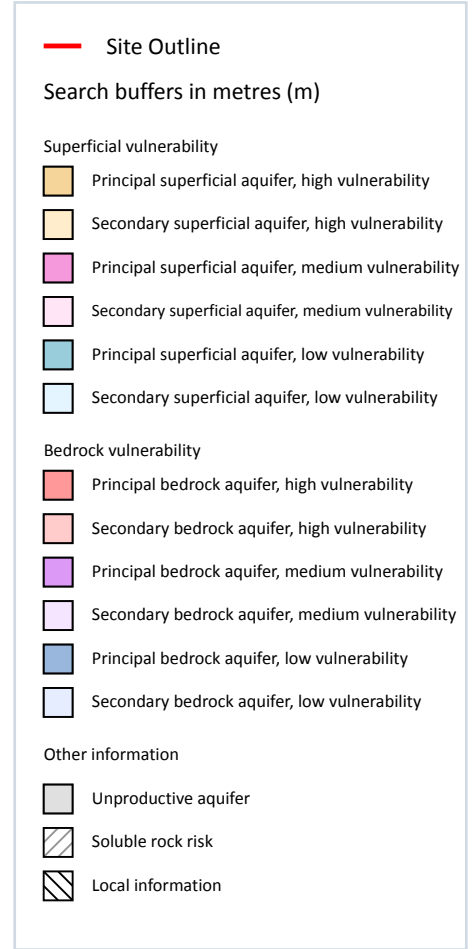
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 81**

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-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

1

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 82**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class: High</b> <b>Infiltration value:</b> >70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability: High</b> <b>Aquifer type: Secondary</b> <b>Thickness: &gt;10m</b> <b>Patchiness value: &gt;90%</b> <b>Recharge potential: High</b>	<b>Vulnerability: Medium</b> <b>Aquifer type: Secondary</b> <b>Flow mechanism: Well connected fractures</b>

*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



### 5.6 Groundwater abstractions

Records within 2000m

54

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 84**

ID	Location	Details	
A	13m W	Status: Historical Licence No: 1/25/04/164 Details: General use relating to Secondary Category (Very Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLES X8 - TRIASSIC MUDSTONES Data Type: Line Name: I C I CHEMICALS & POLYMERS LTD Easting: 452310 Northing: 523190	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 27/11/1996 Expiry Date: - Issue No: 102 Version Start Date: 09/03/2004 Version End Date: -
A	13m W	Status: Historical Licence No: 1/25/04/164 Details: General use relating to Secondary Category (Very Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLES X8 - TRIASSIC MERCIA MUDSTONES - PORT CLARENCE Data Type: Line Name: I C I CHEMICALS & POLYMERS LTD Easting: 452310 Northing: 523190	Annual Volume (m <sup>3</sup> ): 450000 Max Daily Volume (m <sup>3</sup> ): 1500 Original Application No: - Original Start Date: 27/11/1996 Expiry Date: - Issue No: 102 Version Start Date: 09/03/2004 Version End Date: -
A	13m W	Status: Active Licence No: 1/25/04/164 Details: General Use Relating To Secondary Category (Very Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLES X8 - MERCIA MUDSTONE - PORT CLARENCE Data Type: Line Name: North Tees Ltd Easting: 452310 Northing: 523190	Annual Volume (m <sup>3</sup> ): 450,000 Max Daily Volume (m <sup>3</sup> ): 1,500 Original Application No: - Original Start Date: 27/11/1996 Expiry Date: - Issue No: 104 Version Start Date: 12/10/2015 Version End Date: -
-	1287m W	Status: Historical Licence No: 1/25/04/134 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -



ID	Location	Details	
-	1287m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1287m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1287m W	Status: Historical Licence No: 1/25/04/068 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X4 - TRIASSIC MUDSTONES - SEAL SANDS Data Type: Poly4 Name: I C I LTD Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 2,954,545 Max Daily Volume (m <sup>3</sup> ): 9591 Original Application No: - Original Start Date: 30/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1966 Version End Date: -
-	1287m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -





ID	Location	Details	
-	1287m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1287m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451030 Northing: 523380	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1326m NW	Status: Historical Licence No: 1/25/04/134 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1326m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -



ID	Location	Details	
-	1326m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1326m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1326m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1326m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451180 Northing: 524100	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -



ID	Location	Details	
-	1361m NW	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X 2 Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 451140 Northing: 524100	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1361m NW	Status: Historical Licence No: 1/25/04/068 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X2 - TRIASSIC MUDSTONES - SEAL SANDS Data Type: Line Name: I C I LTD Easting: 451140 Northing: 524100	Annual Volume (m <sup>3</sup> ): 2,954,545 Max Daily Volume (m <sup>3</sup> ): 9591 Original Application No: - Original Start Date: 30/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1966 Version End Date: -
-	1388m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X 2 Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 450980 Northing: 522850	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1388m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W4 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450980 Northing: 522850	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 104 Version Start Date: 01/07/2003 Version End Date: -





ID	Location	Details	
-	1388m W	Status: Historical Licence No: 1/25/04/068 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W4 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: I C I LTD Easting: 450980 Northing: 522850	Annual Volume (m <sup>3</sup> ): 2,954,545 Max Daily Volume (m <sup>3</sup> ): 9591 Original Application No: - Original Start Date: 30/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1966 Version End Date: -
-	1439m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W3 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450960 Northing: 522740	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 104 Version Start Date: 01/07/2003 Version End Date: -
-	1467m NW	Status: Historical Licence No: 1/25/04/134 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1467m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -



ID	Location	Details	
-	1467m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1467m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1467m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1467m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451200 Northing: 524370	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -



ID	Location	Details	
-	1487m W	Status: Historical Licence No: 1/25/04/134 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - WILTON Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1487m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1487m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1487m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -



ID	Location	Details	
-	1487m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1487m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450830 Northing: 523400	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1640m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X 4- TRIASSIC MUDSTONES Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1640m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 104 Version Start Date: 01/07/2003 Version End Date: -





ID	Location	Details	
-	1640m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1640m W	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1640m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1640m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -



ID	Location	Details	
-	1640m W	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W1 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 450700 Northing: 522950	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1680m NW	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 104 Version Start Date: 01/07/2003 Version End Date: -
-	1680m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1680m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -



ID	Location	Details	
-	1680m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1680m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1680m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE W10 - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451230 Northing: 524700	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1718m W	Status: Historical Licence No: 1/25/04/133 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X4 - TRIASSIC MUDSTONES Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 450630 Northing: 522900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -



ID	Location	Details	
-	1889m NW	Status: Historical Licence No: 1/25/04/134 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: I C I CHEMICAL & POLYMERS GROUP Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
-	1889m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1889m NW	Status: Historical Licence No: 1/25/04/134 Details: Make-Up or Top Up Water Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: HUNTSMAN PETROCHEMICALS (UK) LTD Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): 1800000 Max Daily Volume (m <sup>3</sup> ): 6478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 106 Version Start Date: 11/08/2005 Version End Date: -
-	1889m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -





ID	Location	Details	
-	1889m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -
-	1889m NW	Status: Active Licence No: 1/25/04/134 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SEAL SANDS Data Type: Point Name: SABIC UK PETROCHEMICALS Easting: 451280 Northing: 525000	Annual Volume (m <sup>3</sup> ): 1,800,000 Max Daily Volume (m <sup>3</sup> ): 6,478 Original Application No: - Original Start Date: 11/04/1975 Expiry Date: - Issue No: 108 Version Start Date: 29/12/2006 Version End Date: -

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

## 5.7 Surface water abstractions

**Records within 2000m**

**0**

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.

*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

0

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

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

## 5.10 Source Protection Zones (confined aquifer)

Records within 500m

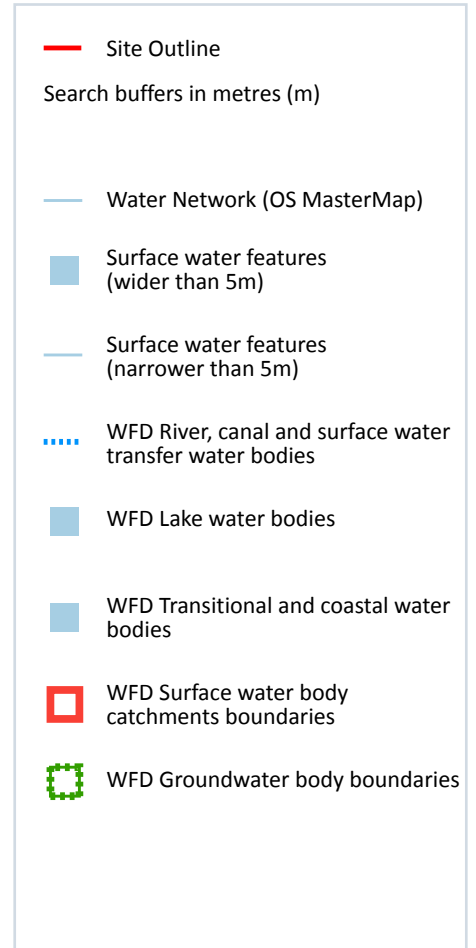
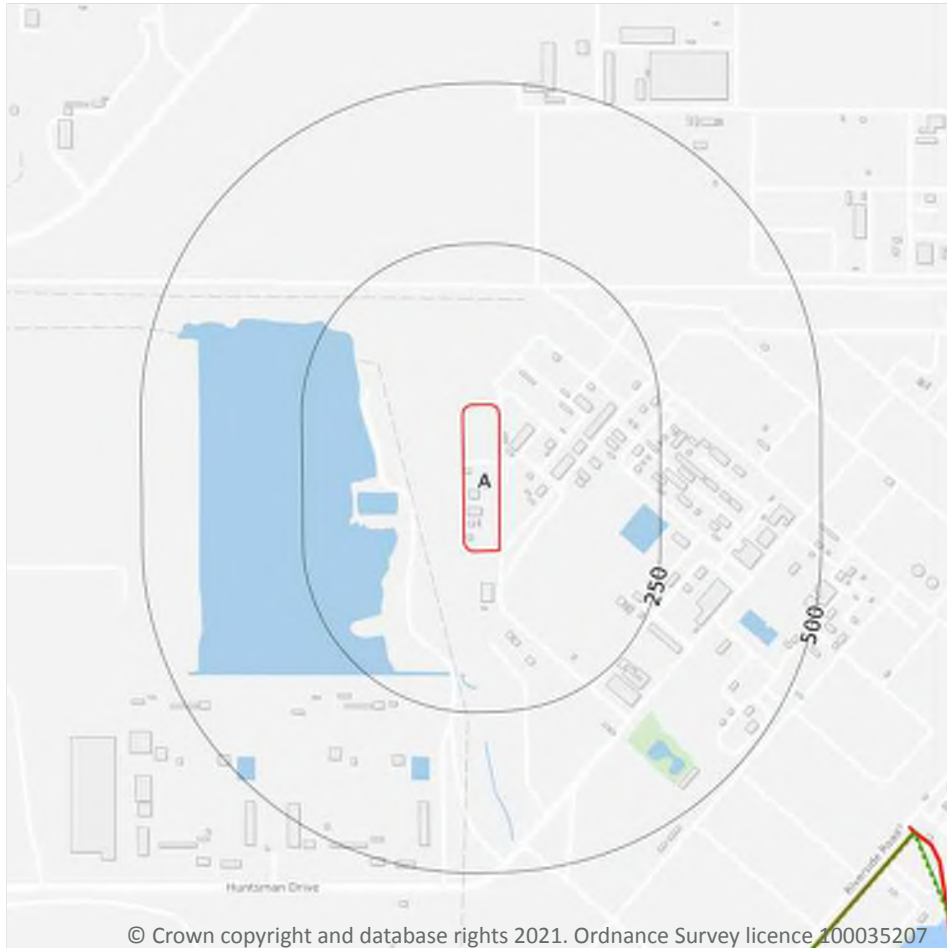
0

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

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

0

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

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

4

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 100**

*This data is sourced from the Ordnance Survey.*

### 6.3 WFD Surface water body catchments

**Records on site**

**1**

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

Features are displayed on the Hydrology map on **page 100**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	10	Tees Lower and Estuary	Tees

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

### 6.4 WFD Surface water bodies

**Records identified**

**0**

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.

*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 100**





ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Tees Sherwood Sandstone	<u>GB40301G702000</u>	Good	Good	Good	2019

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



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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).

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

### 7.2 Historical Flood Events

Records within 250m

0

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.

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

### 7.3 Flood Defences

Records within 250m

0

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

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

## 7.5 Flood Storage Areas

Records within 250m

0

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

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

## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

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.

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

### 7.7 Flood Zone 3

Records within 50m

0

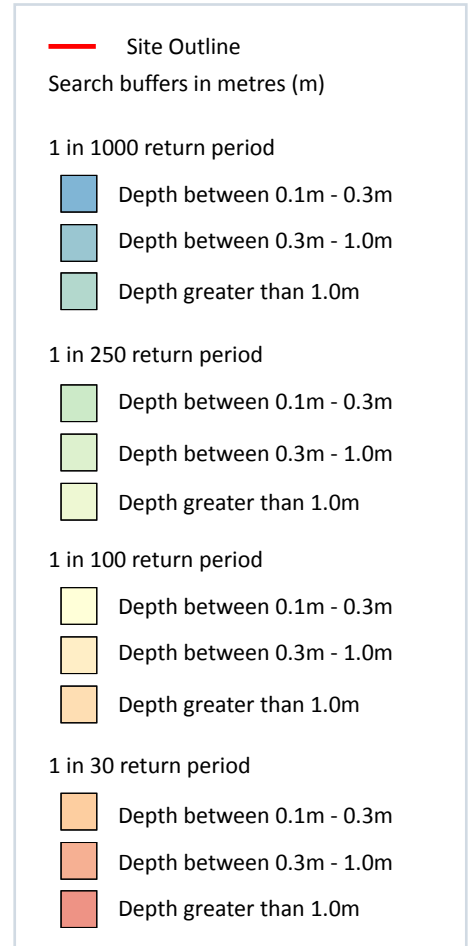
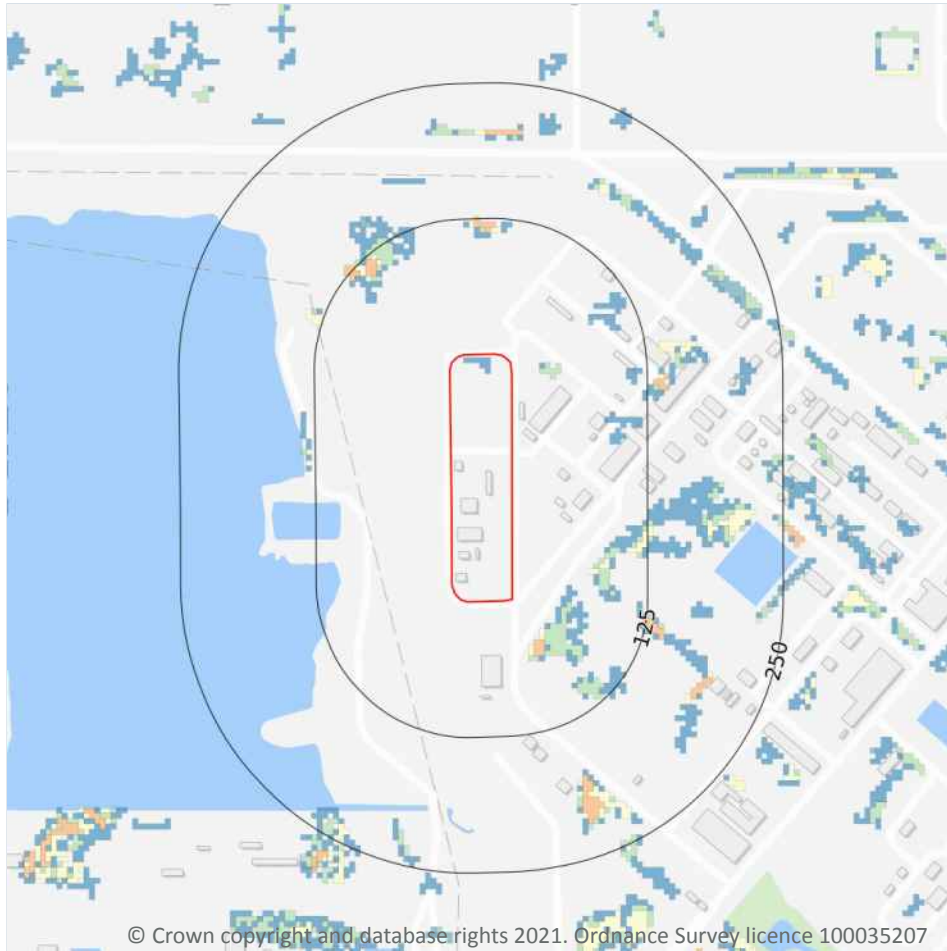
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

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





## 8 Surface water flooding



### 8.1 Surface water flooding

Highest risk on site

**1 in 1000 year, 0.1m - 0.3m**

Highest risk within 50m

**1 in 30 year, 0.1m - 0.3m**

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 106**

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

a site. The table below shows the maximum flood depths for a range of return periods for the site.

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

*This data is sourced from Ambiental Risk Analytics.*

## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

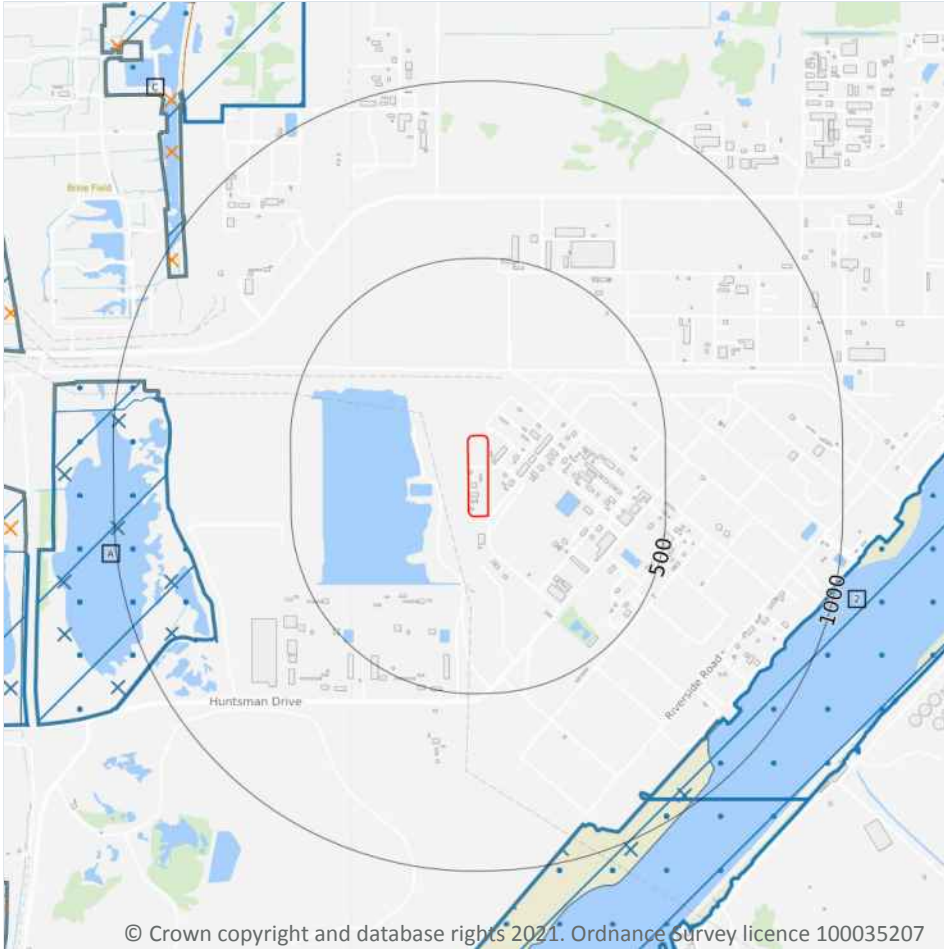
**Low**

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 108**

*This data is sourced from Ambient Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- X Conserved wetland sites (Ramsar sites)
- Special Protection Areas (SPA)
- X National Nature Reserves (NNR)
- X Proposed Ramsar sites

### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

7

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 109**

ID	Location	Name	Data source
A	769m W	Teesmouth and Cleveland Coast	Natural England



ID	Location	Name	Data source
1	869m SE	Teesmouth and Cleveland Coast	Natural England
3	911m S	Teesmouth and Cleveland Coast	Natural England
D	1249m W	Teesmouth and Cleveland Coast	Natural England
-	1585m W	Teesmouth and Cleveland Coast	Natural England
J	1668m SW	Teesmouth and Cleveland Coast	Natural England
-	1713m SW	Teesmouth and Cleveland Coast	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

5

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 109**

ID	Location	Site	Details
A	769m W	Name: Teesmouth and Cleveland Coast Site status: Listed Data source: Natural England	Overview: Medium-large site encompassing a range of habitats (sand and mudflats, rocky shore, saltmarsh, freshwater marsh and sand dunes) on and around an estuary which has been much-modified by human activities. Together these habitats support internationally important numbers of waterbirds. Ramsar criteria: -
B	868m SE	Name: Teesmouth and Cleveland Coast Site status: Listed Data source: Natural England	Overview: Medium-large site encompassing a range of habitats (sand and mudflats, rocky shore, saltmarsh, freshwater marsh and sand dunes) on and around an estuary which has been much-modified by human activities. Together these habitats support internationally important numbers of waterbirds. Ramsar criteria: -



ID	Location	Site	Details
E	1254m W	Name: Teesmouth and Cleveland Coast Site status: Listed Data source: Natural England	Overview: Medium-large site encompassing a range of habitats (sand and mudflats, rocky shore, saltmarsh, freshwater marsh and sand dunes) on and around an estuary which has been much-modified by human activities. Together these habitats support internationally important numbers of waterbirds. Ramsar criteria: -
-	1584m W	Name: Teesmouth and Cleveland Coast Site status: Listed Data source: Natural England	Overview: Medium-large site encompassing a range of habitats (sand and mudflats, rocky shore, saltmarsh, freshwater marsh and sand dunes) on and around an estuary which has been much-modified by human activities. Together these habitats support internationally important numbers of waterbirds. Ramsar criteria: -
-	1601m N	Name: Teesmouth and Cleveland Coast Site status: Listed Data source: Natural England	Overview: Medium-large site encompassing a range of habitats (sand and mudflats, rocky shore, saltmarsh, freshwater marsh and sand dunes) on and around an estuary which has been much-modified by human activities. Together these habitats support internationally important numbers of waterbirds. Ramsar criteria: -

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

### 10.3 Special Areas of Conservation (SAC)

**Records within 2000m**

**0**

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.

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

### 10.4 Special Protection Areas (SPA)

**Records within 2000m**

**19**

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 109**



ID	Location	Name	Species of interest	Habitat description	Data source
A	769m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
A	769m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
2	869m SE	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
B	869m SE	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
C	918m NW	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
D	1249m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England



ID	Location	Name	Species of interest	Habitat description	Data source
E	1255m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1580m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1583m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1585m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1585m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1593m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England





ID	Location	Name	Species of interest	Habitat description	Data source
-	1593m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1602m N	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1603m W	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
10	1668m SW	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1821m N	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1821m N	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England



ID	Location	Name	Species of interest	Habitat description	Data source
-	1873m SW	Teesmouth and Cleveland Coast	Great cormorant; Common shelduck; Eurasian teal; Northern shoveler; Red knot; Sanderling; Common redshank; Sandwich tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	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**

**1**

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.

Features are displayed on the Environmental designations map on **page 109**

ID	Location	Name	Data source
-	1602m N	Teesmouth	Natural England

*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

8

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.

Features are displayed on the Environmental designations map on **page 109**



ID	Location	Name	Status
A	769m W	Teesmouth and Cleveland Coast	Proposed
B	869m SE	Teesmouth and Cleveland Coast	Proposed
C	918m NW	Teesmouth and Cleveland Coast	Proposed
D	1249m W	Teesmouth and Cleveland Coast	Proposed
4	1278m W	Teesmouth and Cleveland Coast	Proposed
-	1585m W	Teesmouth and Cleveland Coast	Proposed
J	1668m SW	Teesmouth and Cleveland Coast	Proposed
-	1795m NE	Teesmouth and Cleveland Coast	Proposed

*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

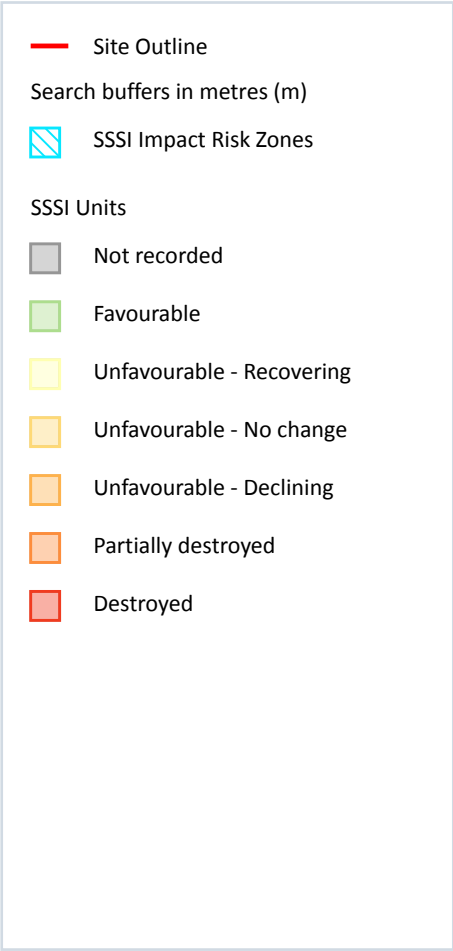
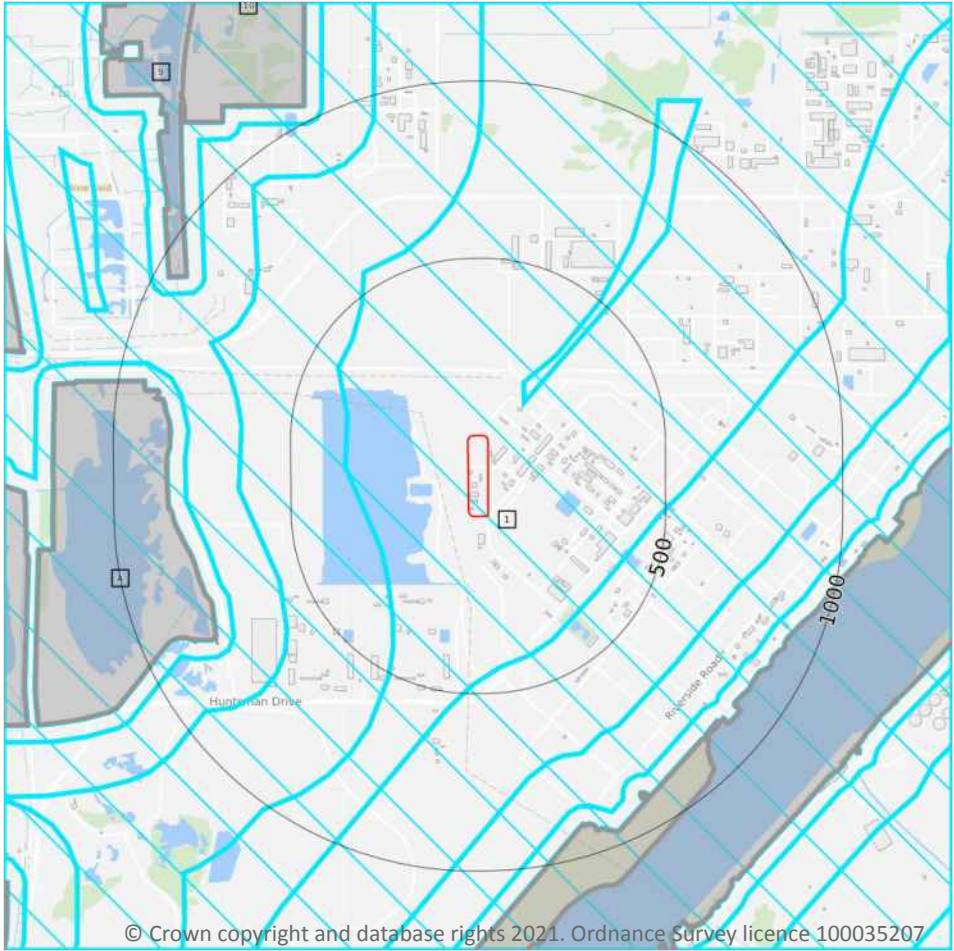
0

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.

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



## SSSI Impact Zones and Units



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### 10.17 SSSI Impact Risk Zones

**Records on site** **1**

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 119**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Solar schemes with footprint &gt; 0.5ha, all wind turbines.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or footprint exceeds 0.2ha.</p> <p>Residential - Residential development of 10 units or more.</p> <p>Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>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.</p> <p>Discharges - Any discharge of water or liquid waste of more than 2m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or any development needing its own water supply .</p>

*This data is sourced from Natural England.*

## 10.18 SSSI Units

Records within 2000m

12

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 119**

ID: A  
 Location: 769m W  
 SSSI name: Teesmouth and Cleveland Coast  
 Unit name:  
 Broad habitat:  
 Condition: Not Recorded  
 Reportable features:



Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

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ID: 7  
Location: 869m SE  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

---

ID: 8  
Location: 874m SE  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

---

ID: 9  
Location: 918m NW  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------





ID: 10  
Location: 1045m NW  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: 13  
Location: 1249m W  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: 14  
Location: 1278m W  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: -  
Location: 1585m W  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:



Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: -  
Location: 1610m N  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: 19  
Location: 1668m SW  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

ID: -  
Location: 1723m W  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------



ID: -  
Location: 1940m N  
SSSI name: Teesmouth and Cleveland Coast  
Unit name:  
Broad habitat:  
Condition: Not Recorded  
Reportable features:

Feature name	Feature condition	Date of assessment
--------------	-------------------	--------------------

*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**

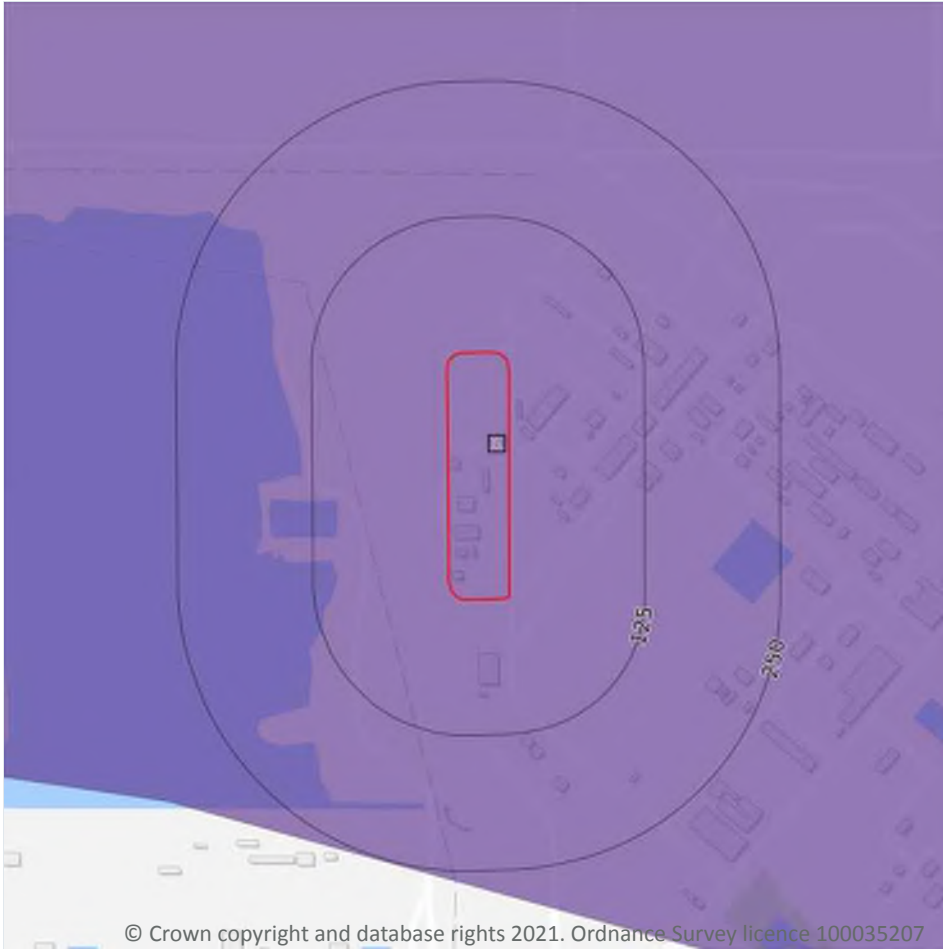
**0**

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

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### 12.1 Agricultural Land Classification

Records within 250m

1

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 127**

ID	Location	Classification	Description
1	On site	Urban	-

*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

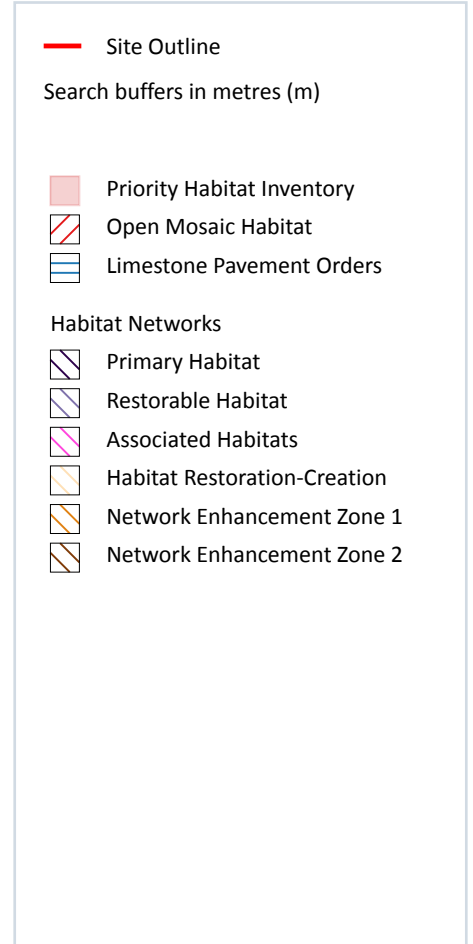
0

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



### 13.1 Priority Habitat Inventory

Records within 250m

0

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

*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

2

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

Features are displayed on the Habitat designations map on **page 129**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	25m SW	NLUD Ref: 73800046	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-
2	189m N	HLD_refs: EAHLD05489	Low	Environment Agency Historic Landfill Sites	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

### 13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



## 14 Geology 1:10,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

Records within 500m

1

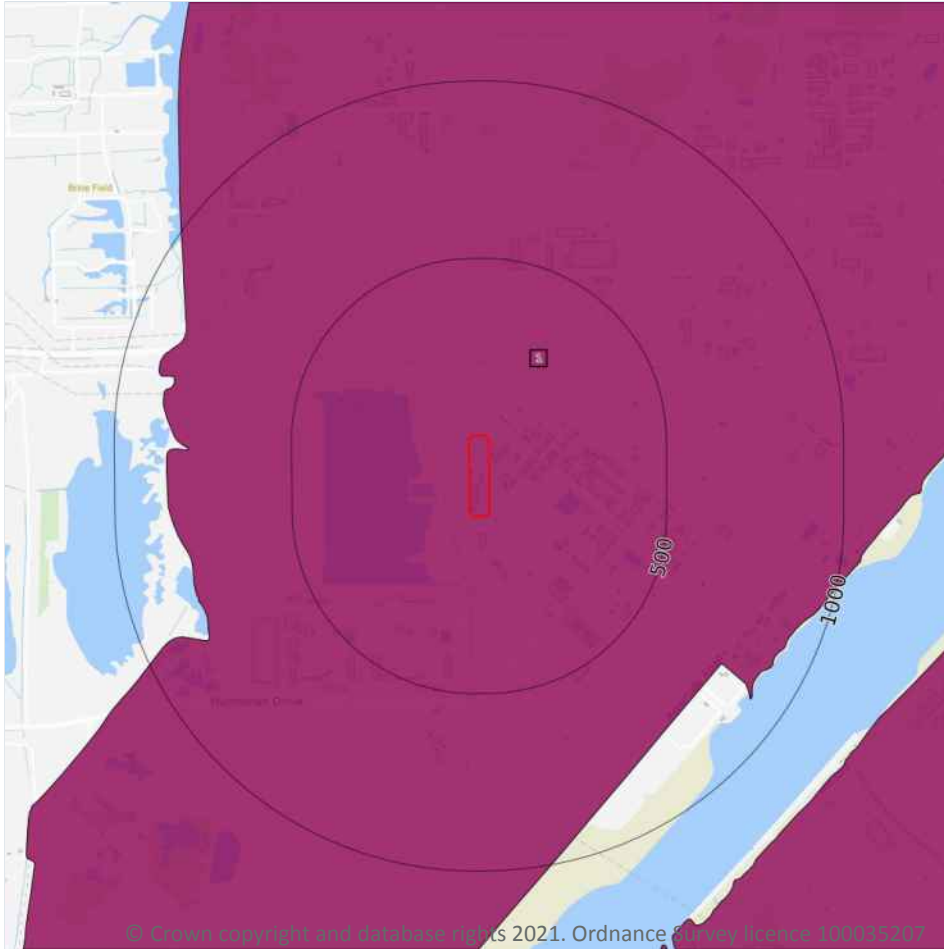
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on **page 131**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	NZ52SW

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



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



— Site Outline

Search buffers in metres (m)

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

### 14.2 Artificial and made ground (10k)

Records within 500m

1

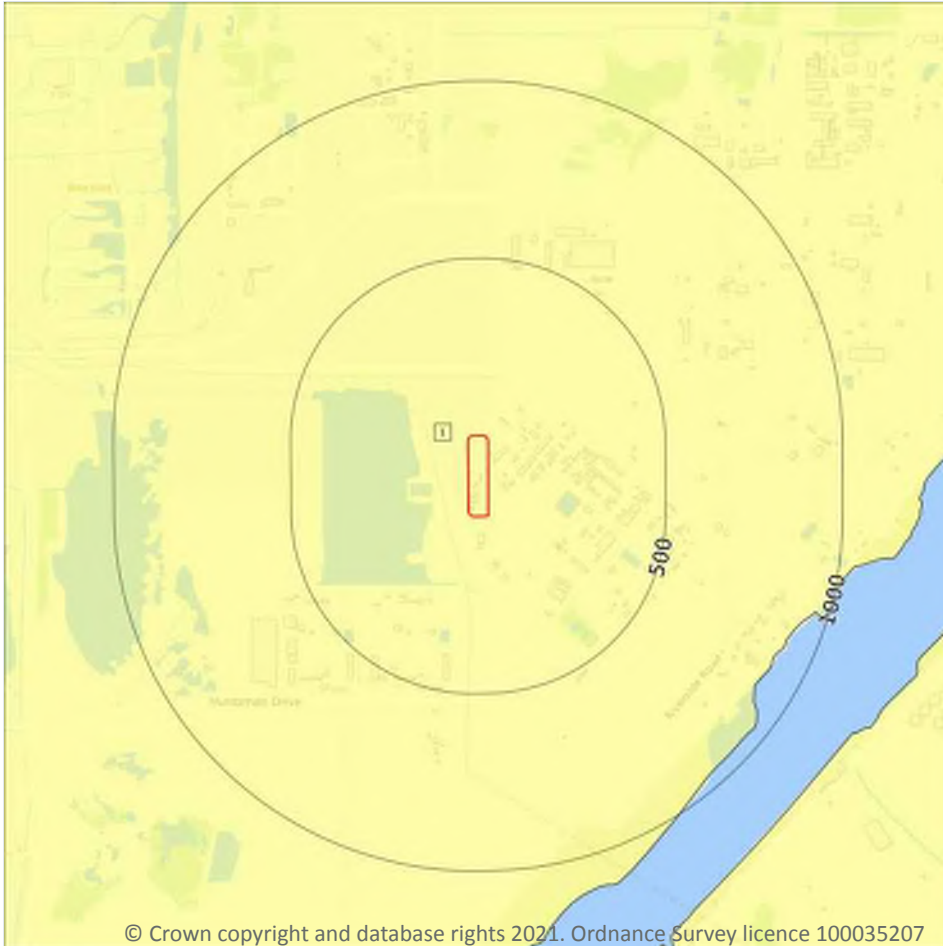
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 132**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

Records within 500m

1

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 133**

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XSZC	Tidal Flat Deposits - Sand, Silt And Clay	Sand, Silt And Clay

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



## 14.4 Landslip (10k)

Records within 500m

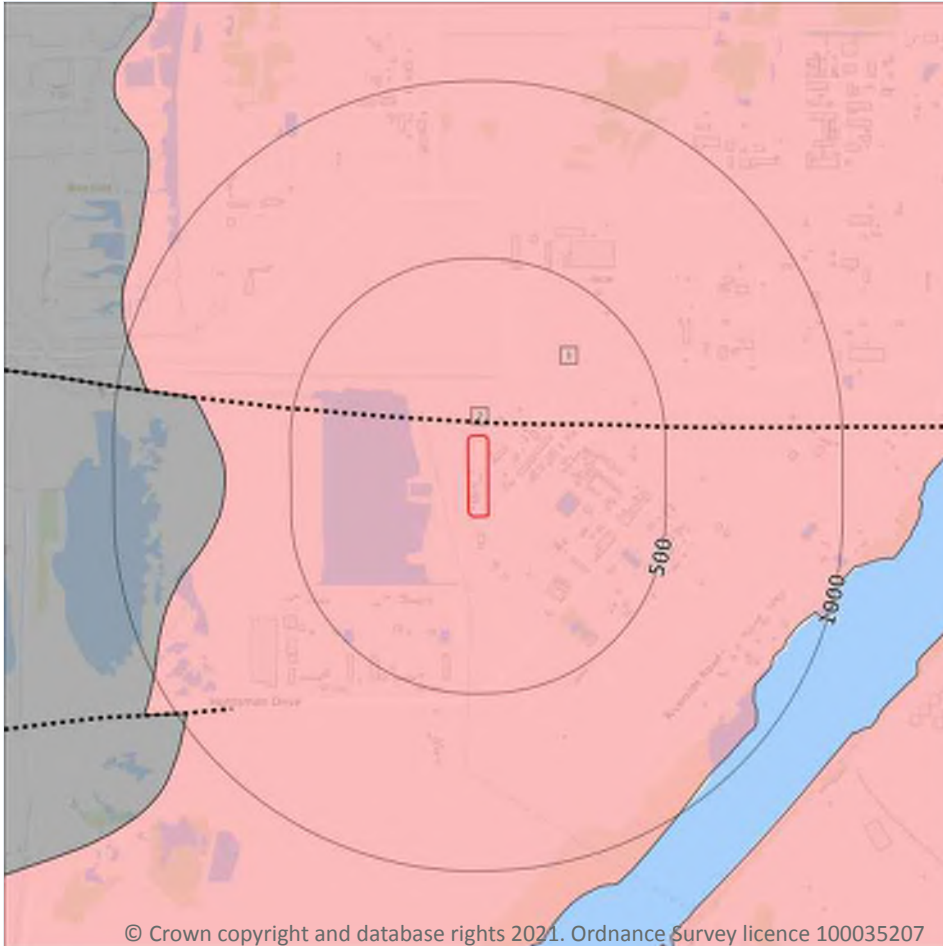
0

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



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)  
Please see table for more details.

### 14.5 Bedrock geology (10k)

<b>Records within 500m</b>	<b>1</b>
----------------------------	----------

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 135**

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDSS	Mercia Mudstone Group - Mudstone, Siltstone And Sandstone	Rhaetian Age - Early Triassic Epoch

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

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

Records within 500m

1

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 135**

ID	Location	Category	Description
2	37m N	FAULT	Normal fault, inferred; crossmarks on downthrow side

*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.

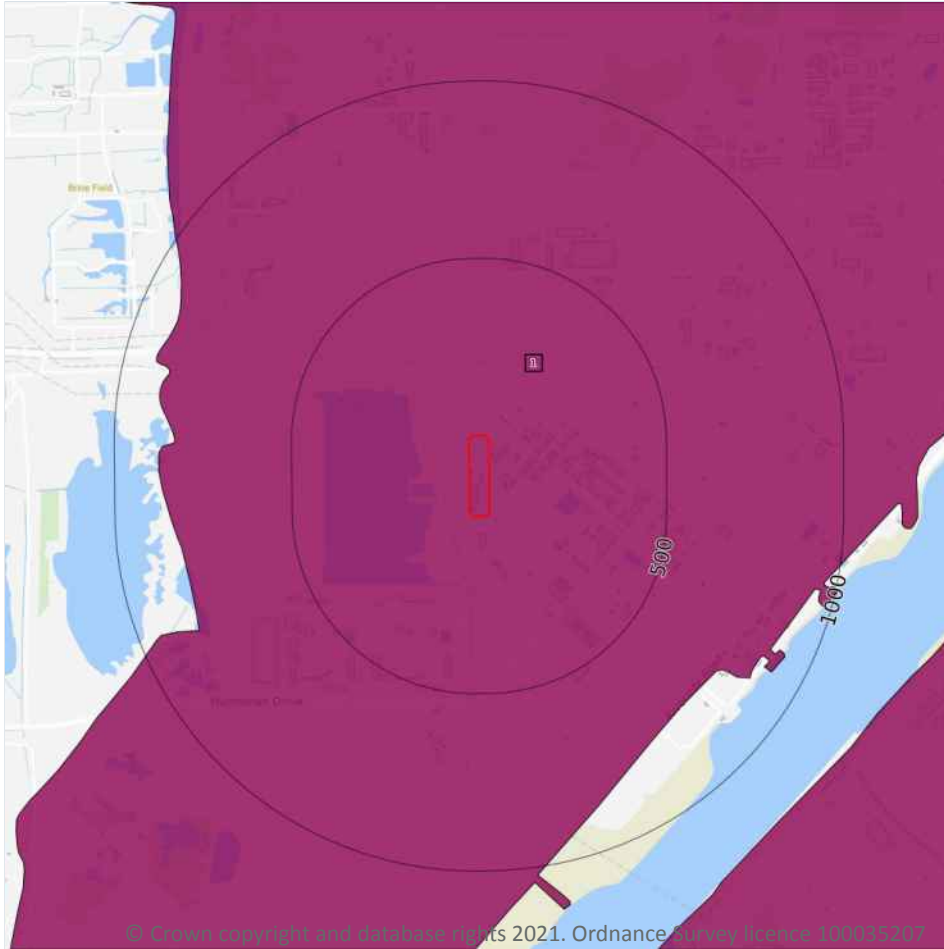
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 137**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW033_stockton_v4

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



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



— Site Outline

Search buffers in metres (m)

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

### 15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability. Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 138**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

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

### 15.3 Artificial ground permeability (50k)

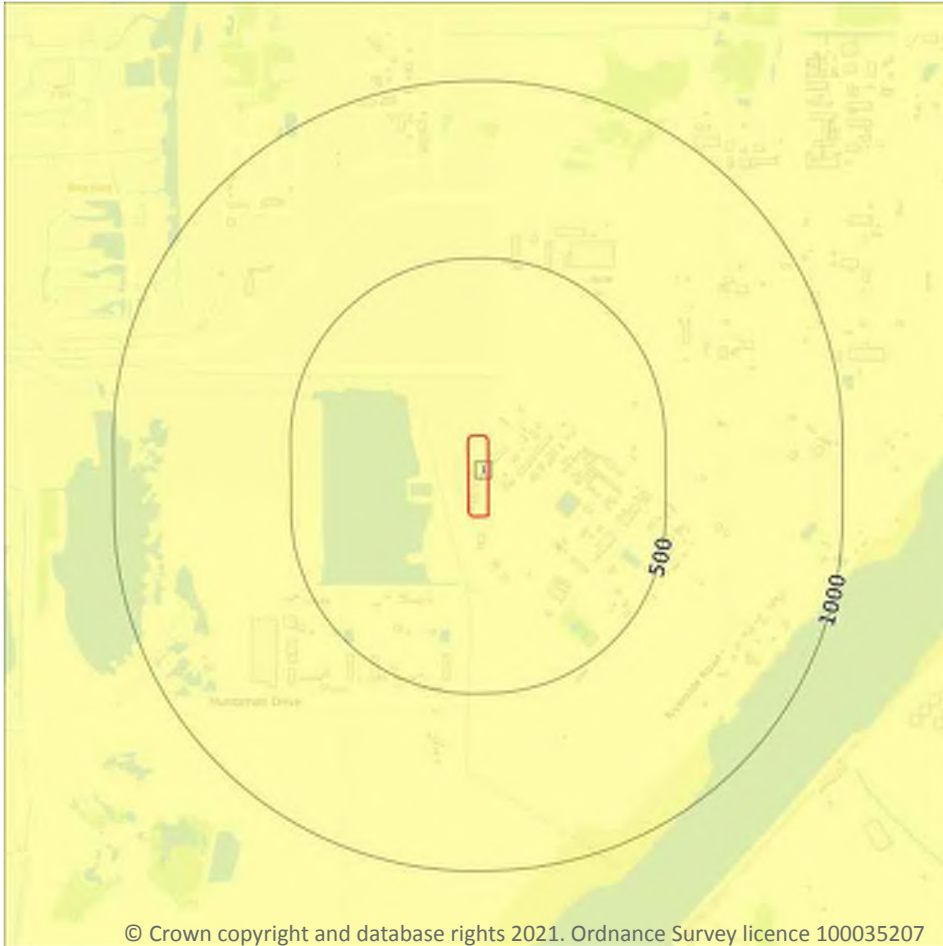
<b>Records within 50m</b>	<b>1</b>
---------------------------	----------

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
<b>On site</b>	<b>Mixed</b>	<b>Very High</b>	<b>Low</b>

*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

1

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 140**

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XSZC	TIDAL FLAT DEPOSITS	SAND, SILT AND CLAY

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

## 15.5 Superficial permeability (50k)

**Records within 50m** **1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Low

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

## 15.6 Landslip (50k)

**Records within 500m** **0**

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

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

## 15.7 Landslip permeability (50k)

**Records within 50m** **0**

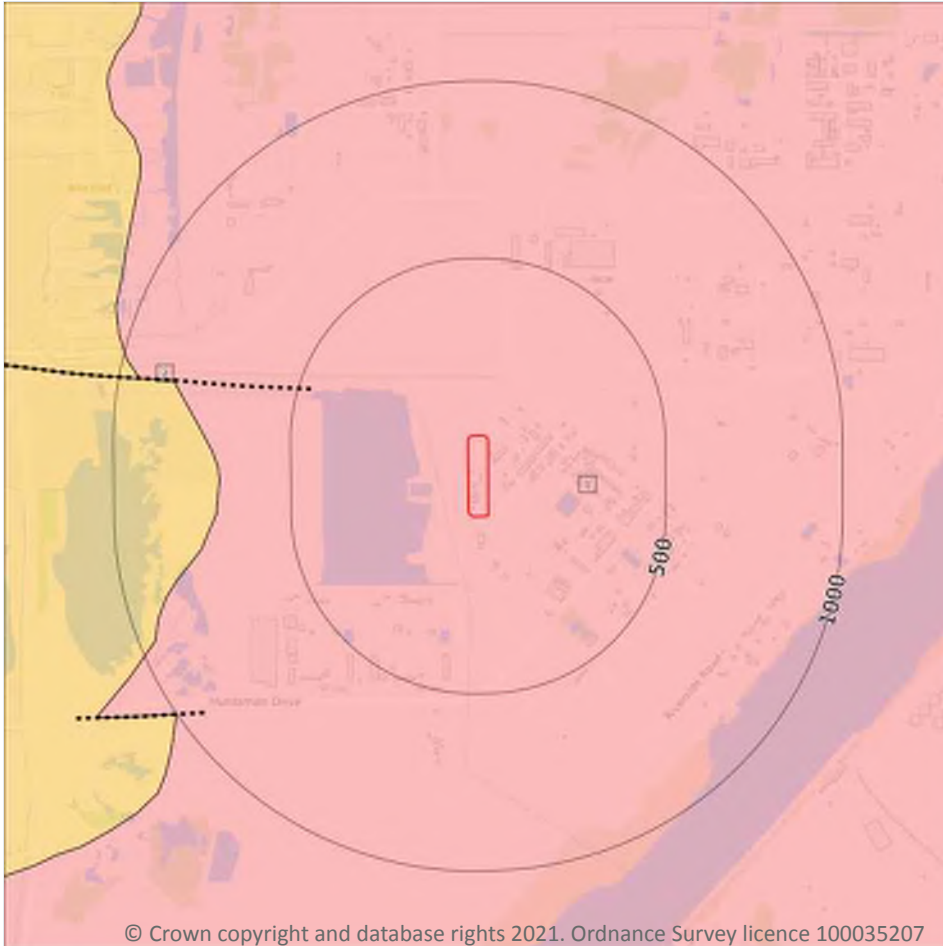
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

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





## Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- ..... Bedrock faults and other linear features (50k)
- Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 142**

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

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

## 15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low

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

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

Records within 500m

1

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.

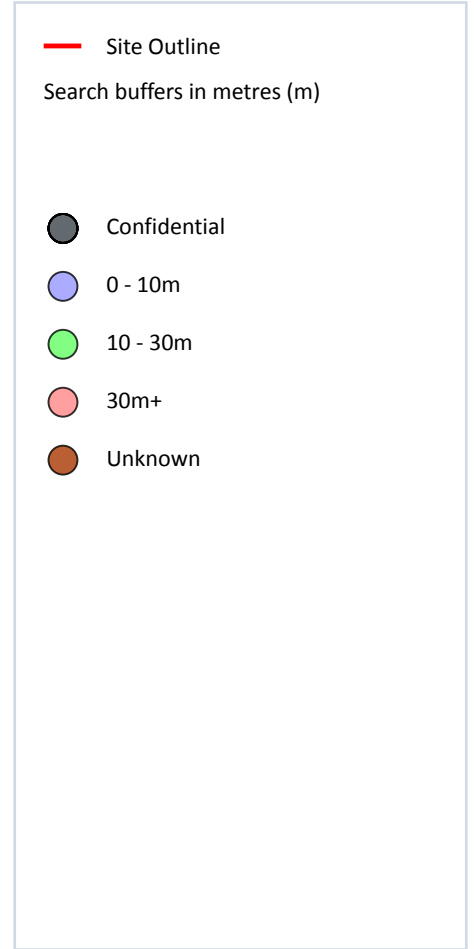
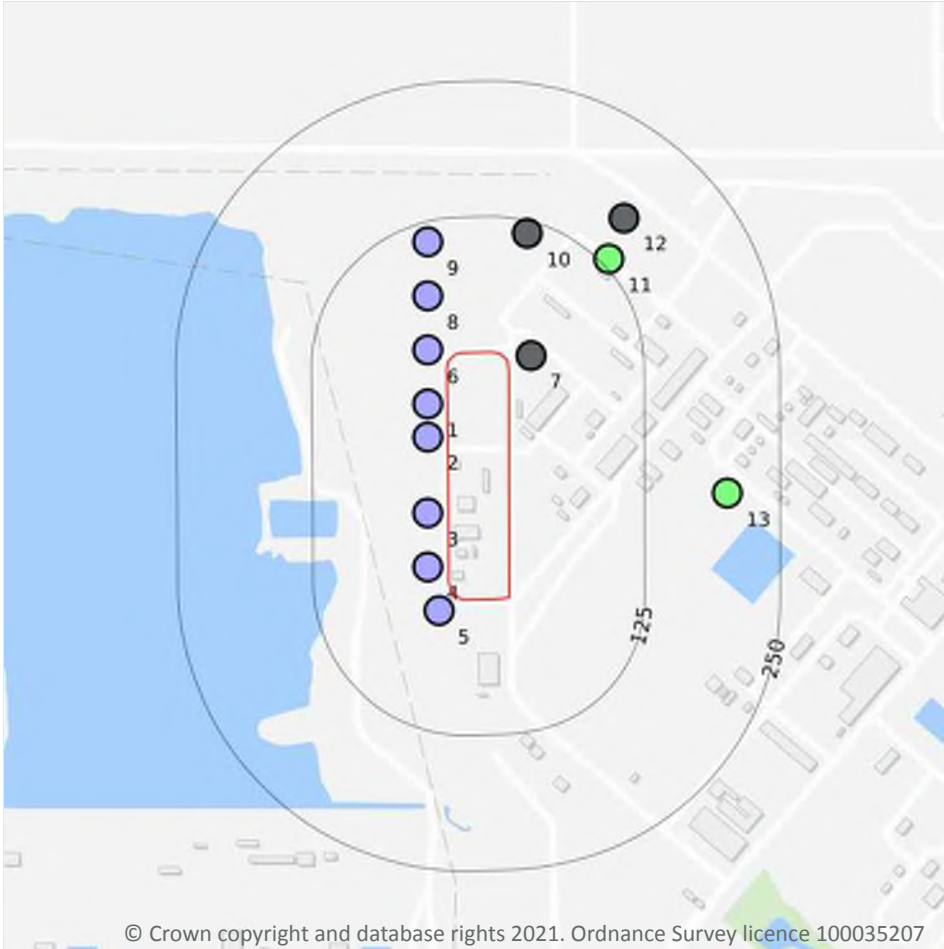
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 142**

ID	Location	Category	Description
2	454m W	FAULT	Fault, inferred, displacement unknown

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



## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

13

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 144**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	18m W	452300 523380	I C I EUTECH	5.9	N	<a href="#">917772</a>
2	18m W	452300 523350	I C I EUTECH	6.4	N	<a href="#">917771</a>

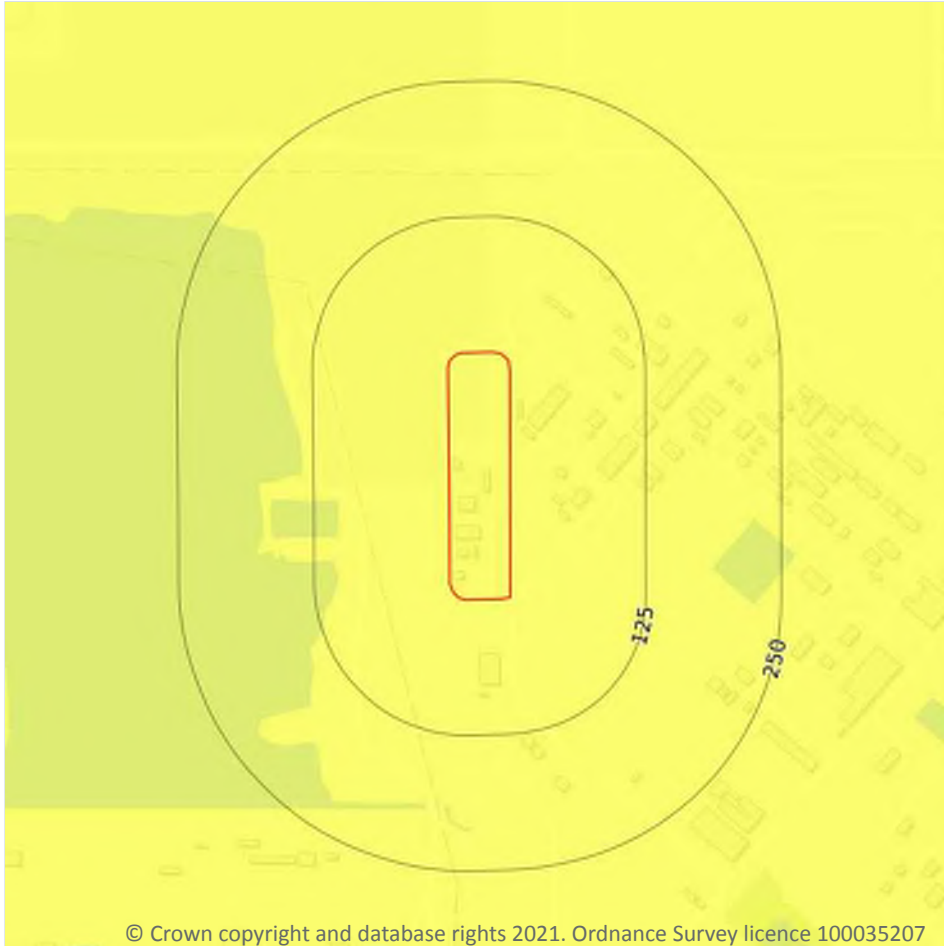
ID	Location	Grid reference	Name	Length	Confidential	Web link
3	19m W	452300 523280	ICI EUTECH	5.7	N	<a href="#">917770</a>
4	19m W	452300 523230	ICI EUTECH	5.6	N	<a href="#">917769</a>
5	21m SW	452310 523190	ICI EUTECH	5.75	N	<a href="#">917768</a>
6	22m NW	452300 523430	ICI EUTECH	5.8	N	<a href="#">917773</a>
7	22m E	452395 523425	ICI N TEES WORKS 1296	-	Y	N/A
8	60m NW	452300 523480	ICI EUTECH	5.6	N	<a href="#">917774</a>
9	107m N	452300 523530	ICI EUTECH	4.5	N	<a href="#">917775</a>
10	114m N	452392 523538	ICI BOREHOLE E16	-	Y	N/A
11	132m NE	452467 523514	NEW OIL JETTY N TEES 987	18.29	N	<a href="#">917292</a>
12	170m NE	452481 523552	ICI N TEES WORKS 987	-	Y	N/A
13	201m E	452576 523298	NEW OIL JETTY N TEES 1100	16.15	N	<a href="#">917300</a>

*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

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### 17.1 Shrink swell clays

Records within 50m

1

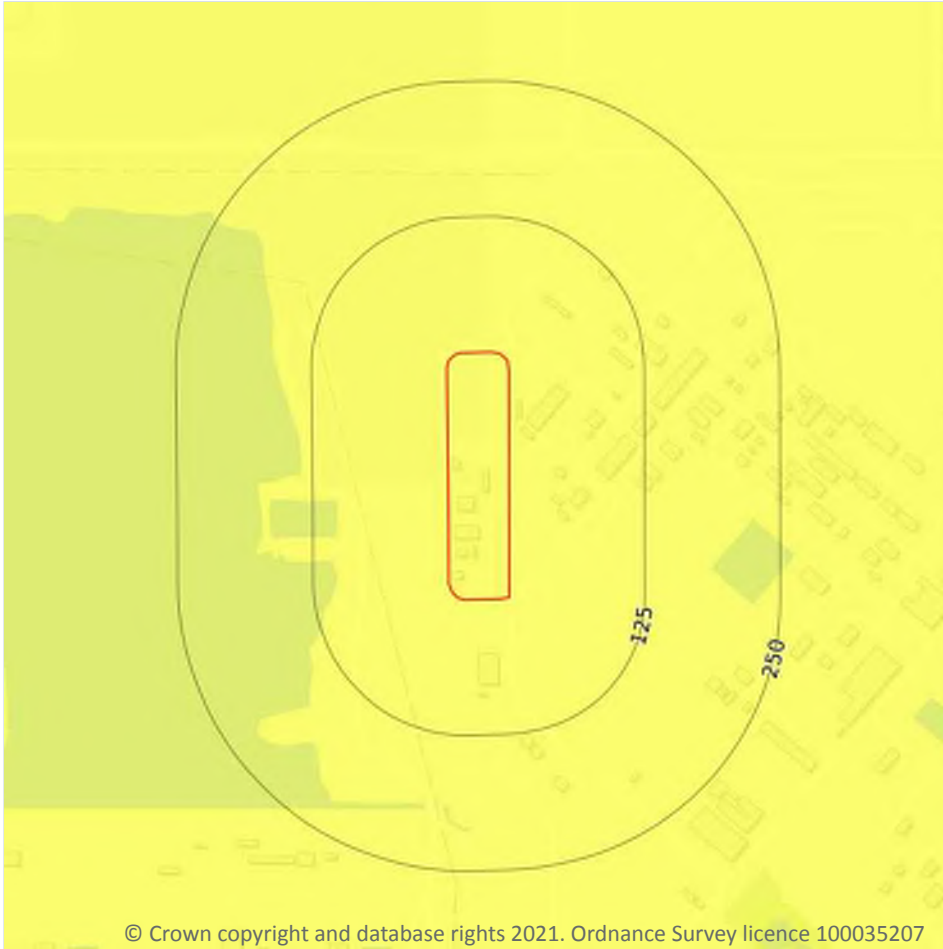
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 146**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

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

## Natural ground subsidence - Running sands



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- Site Outline
- Search buffers in metres (m)
- No data
- Negligible
- Very low
- Low
- Moderate
- High

### 17.2 Running sands

Records within 50m

1

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.

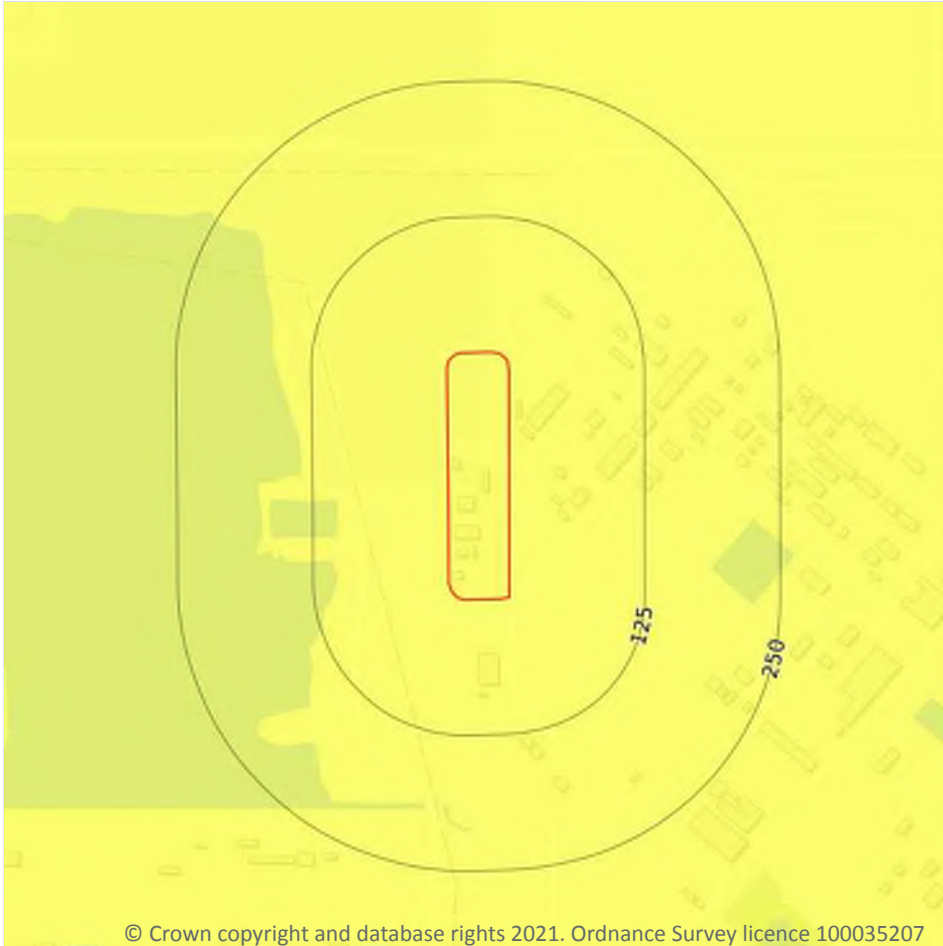
Features are displayed on the Natural ground subsidence - Running sands map on **page 147**

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.

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



## Natural ground subsidence - Compressible deposits



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**Site Outline**

Search buffers in metres (m)

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

### 17.3 Compressible deposits

**Records within 50m**

**1**

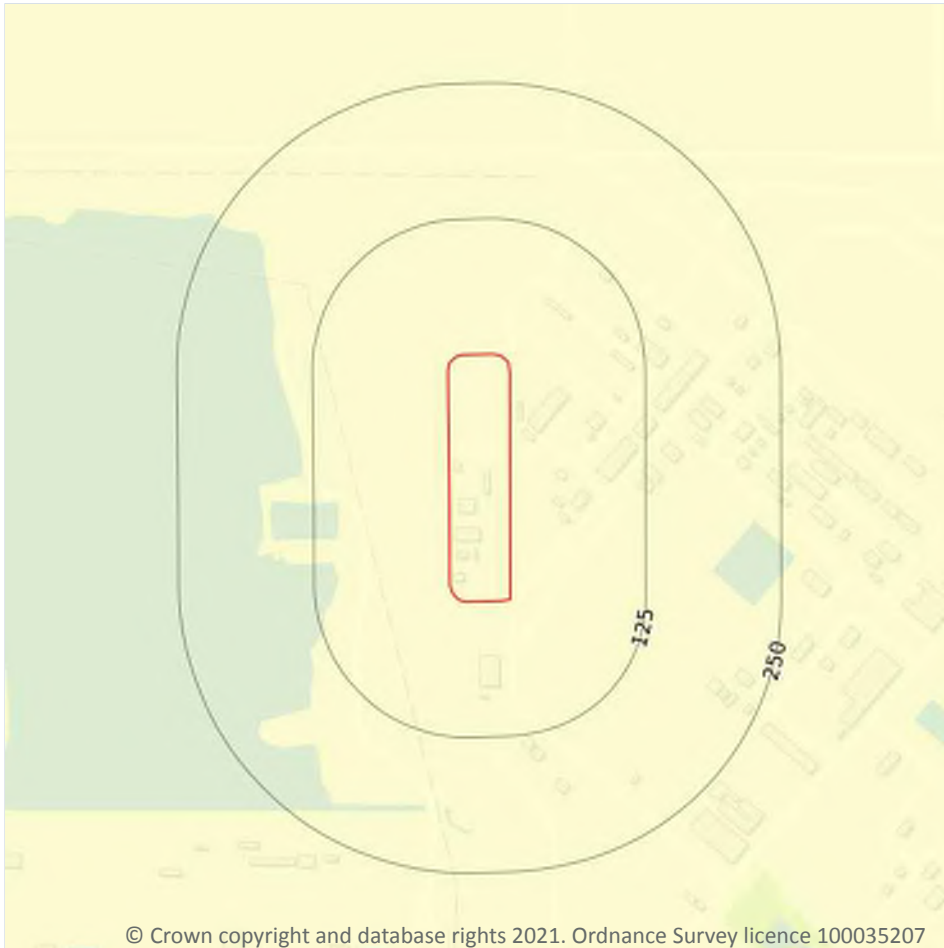
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 148**

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.

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

## Natural ground subsidence - Collapsible deposits



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- 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.

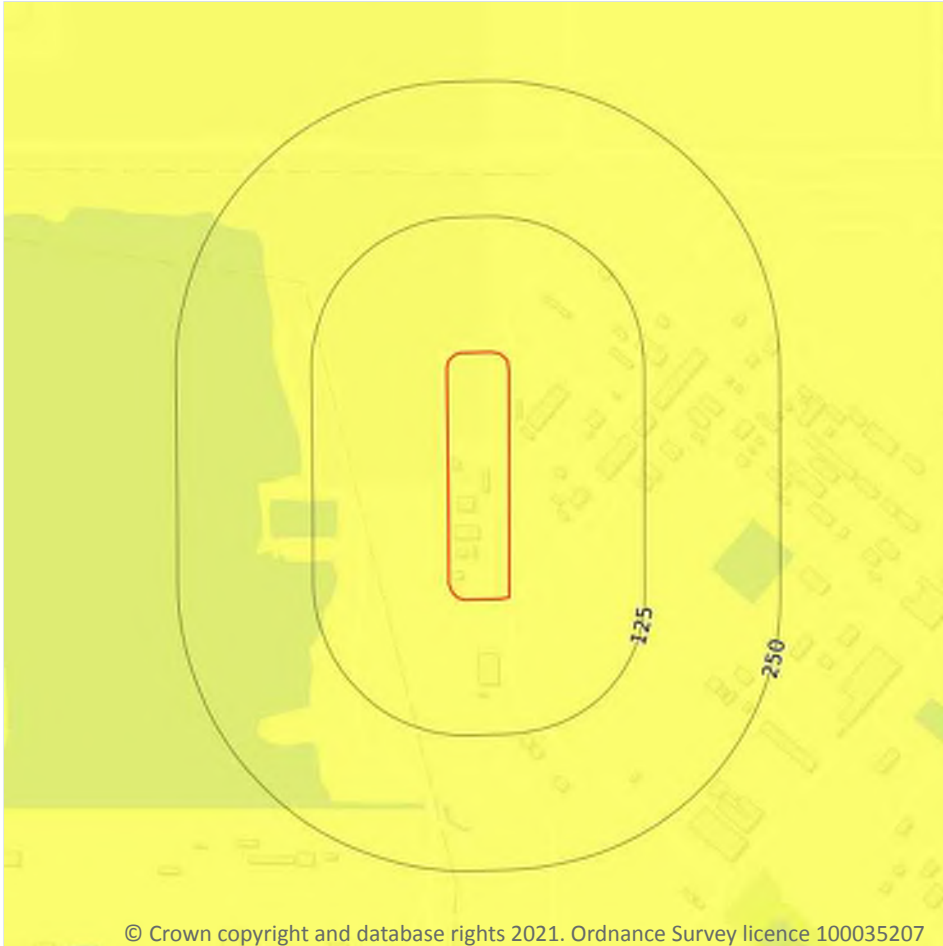
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 149**

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

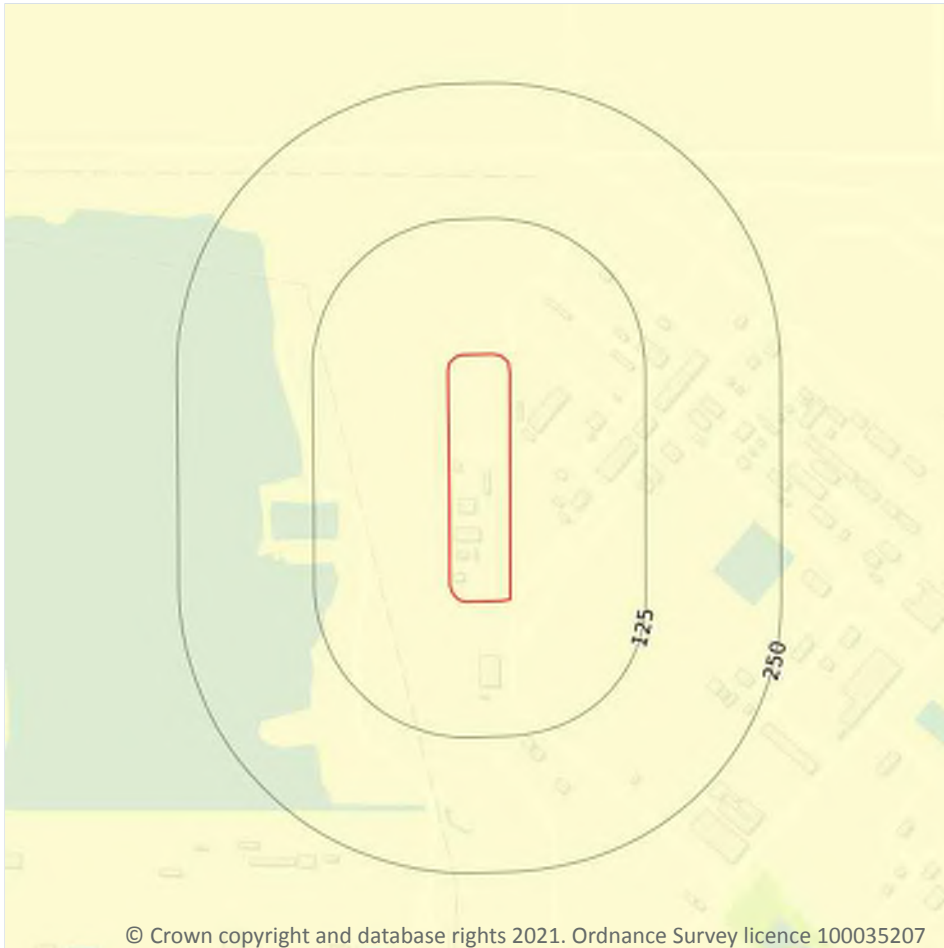
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 150**

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

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### 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.

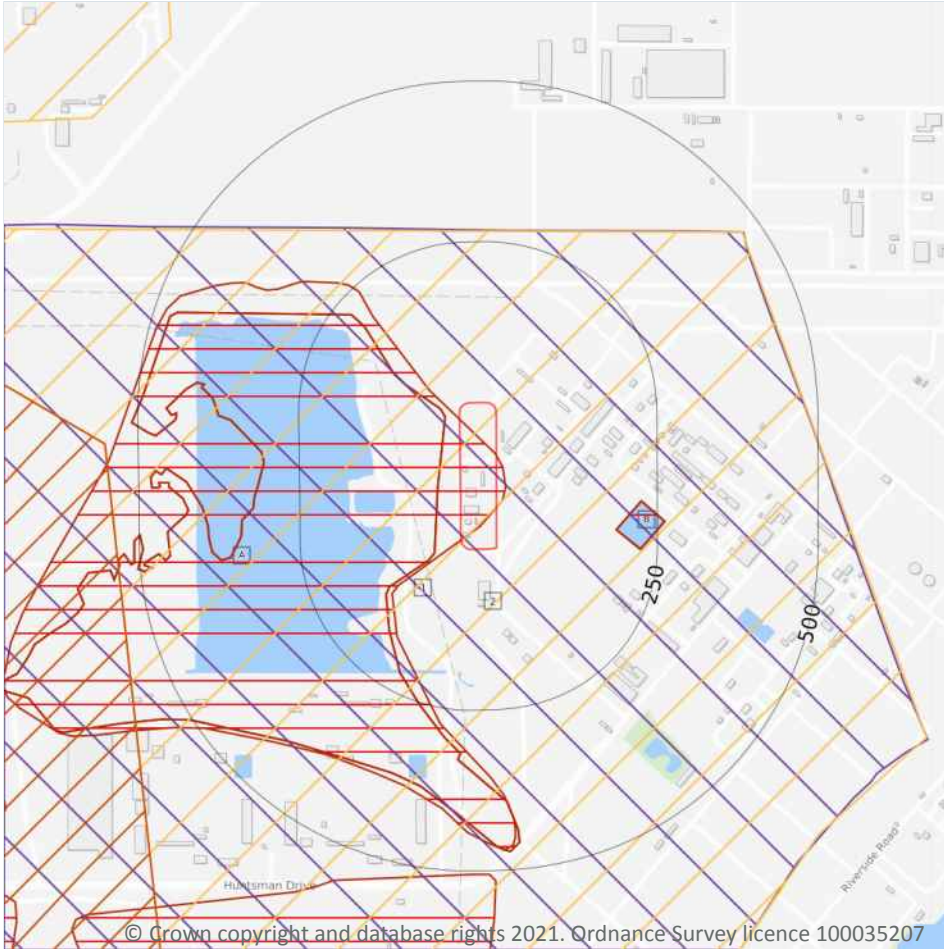
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 151**

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



### 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

5

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 153**

ID	Location	Land Use	Year of mapping	Mapping scale
<b>A</b>	<b>On site</b>	<b>Water Body</b>	<b>1955</b>	<b>1:10560</b>
A	22m W	Pond	1992	1:10000
A	22m W	Pond	1988	1:10000
B	186m E	Reservoir	1992	1:10000
B	186m E	Reservoir	1988	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

1

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.



Features are displayed on the Mining, ground workings and natural cavities map on **page 153**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	On site	Cassel Works	Salt (brine)	Surface mineral working	Application	Not available

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

## 18.6 Non-coal mining

Records within 1000m

3

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 153**

ID	Location	Name	Commodity	Class	Likelihood
2	On site	Saltholme Brinefield	Salt - brine	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	534m W	Haverton Hill and Salthome	Salt - brine	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
5	692m SE	Saltholme Brinefield	Brine	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

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

## 18.7 Mining cavities

Records within 1000m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 153**



ID	Location	Mine Address	Mineral	Data source	Publisher
-	847m W	Brine Well, Cleveland	Brine, Rock Salt, Salt, Halite	REPORT ON ABANDONED MINERAL WORKINGS AND POSSIBLE SURFACE INSTABILITY PROBLEMS	COUNTY OF CLEVELAND

*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** **0**

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

*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

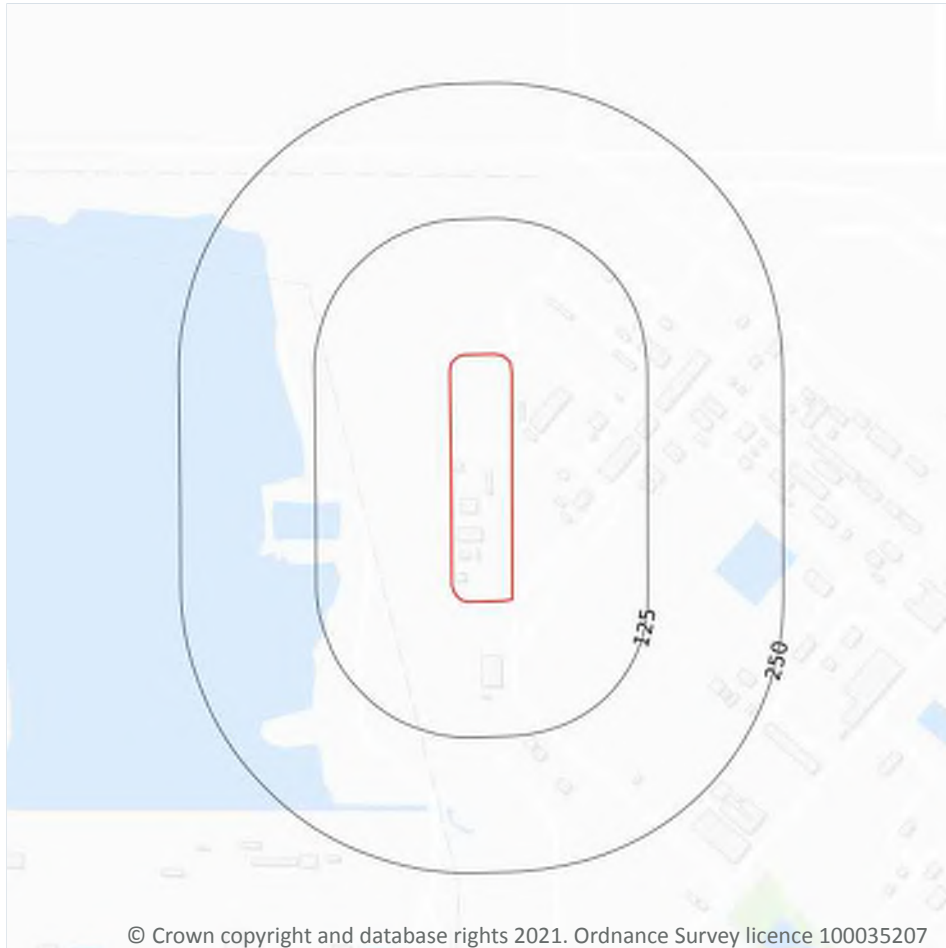
0

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



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— Site Outline  
Search buffers in metres (m)

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

### 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 158**

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**
**1**

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<sup>2</sup>. 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<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 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<sup>2</sup>).

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

### 20.3 BGS Measured Urban Soil Chemistry

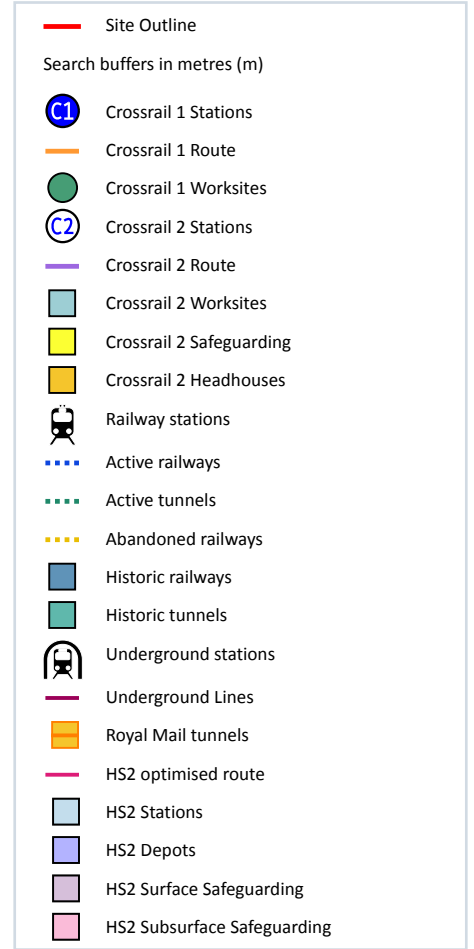
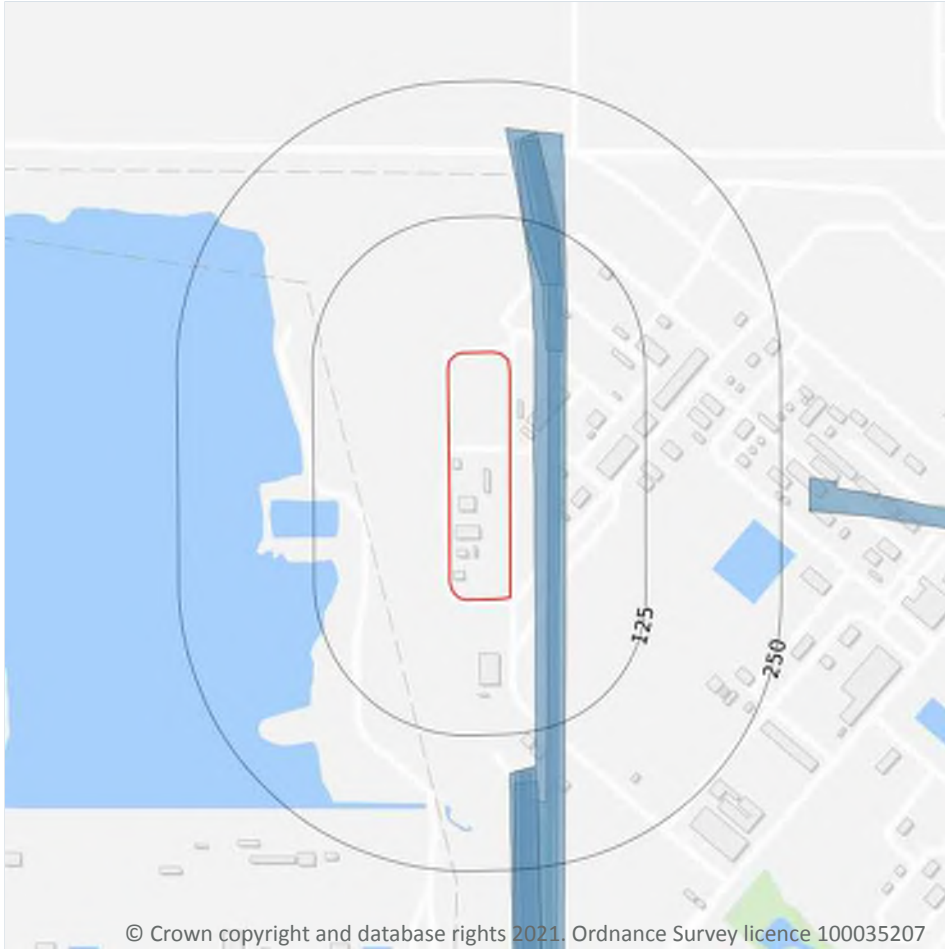
**Records within 50m**
**0**

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<sup>2</sup>.

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



## 21 Railway infrastructure and projects



### 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**

**8**

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 160**

Location	Land Use	Year of mapping	Mapping scale
22m E	Railway Sidings	1920	10560
22m E	Railway Sidings	1927	10560
34m E	Railway Sidings	1913	10560
36m E	Railway Sidings	1916	2500
36m E	Railway Sidings	1913	10560
74m NE	Railway Sidings	1923	10560
160m S	Railway Sidings	1913	10560
170m S	Railway Sidings	1923	10560

*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

0

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

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

Records within 250m

0

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

*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.*



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## 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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## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



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## APPENDIX 03

### Site Walkover Photographs



**Photograph 1: General view of Site – control room & offices.**



**Photograph 2: General view of site – viewing steam condensate system towards the south of the hydrogen plant. Hydrogen trailer import in the background (red trailer to the left).**



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 SY3 5HJ

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**Project:**  
**BOC Teesside**



Project No. : 406.05535.00011

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**Photograph 3: General view of Site – viewing northeast towards the hydrogen plant.**



**Photograph 4: 2080L liquid nitrogen above ground storage tank (AST) located in the west of the Site.**



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**Photograph 5: Culvert off-site to the west (raw natural gas feed inlet, end-product hydrogen feed to clients and effluent feed to SABIC treatment facility).**



**Photograph 6: General view of Site – viewing compressors in the central area of the hydrogen plant.**



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**Photograph 7: General view of Site – Viewing pressure Swing Adsorption (PSA) unit in the northeast of the hydrogen plant.**



**Photograph 8: Internally banded ASTs containing chemicals for water treatment (Ammonia, HCL, Drewphos, Amersite, Sulphuric Acid and Sodium Hypochlorite, 1500L to 2500L capacity).**



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**Photograph 9: Internally banded ASTs containing chemicals for water treatment (Ammonia, HCL, Drewphos, Amersite, Sulphuric Acid and Sodium Hypochlorite, 1500L to 2500L capacity).**



**Photograph 10: 35,000L effluent tank located north of the hydrogen plant.**



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**Photograph 11: General view of Site – Viewing the cooling tower (foreground) located in the northwest of the hydrogen plant.**



**Photograph 12: Oil drums and grease used for plant maintenance within a bunded container. Located in the east of the Site.**



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**Photograph 13: General view of Site – Viewing towards the hydrogen plant reformer area.**



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**Photograph 14: Electrical transformers located immediately south of the control room, in the south of the Site.**



**Photograph 15: Electricity substation located south of the control room, in the south of the Site. Manhole for the Sites' septic tank in the foreground.**



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**Photograph 16: Storage containers in the south of the Site (library, toilets and general storage) water treatment building to the right.**



**Photograph 17: General views from inside the water treatment building.**



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**Photograph 18: General views from inside the water treatment building.**



**Photograph 19: 400,000L demineralised water tank.**



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**Photograph 20: 19,000L effluent tank (left of picture) and degasser tank (right of picture).**



**Photograph 21: Internally banded ASTs containing chemicals for water treatment (Caustic Soda Liquor and Hydrochloric Acid, 3000L and 4000L capacity respectively).**



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**Photograph 22: General view of the northern area of the Site intended for development (expansion of the existing hydrogen plant).**



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