Light Valley Solar

Environmental Statement Volume 3

Appendix 16.3: Ground Conditions Preliminary Risk Assessment Part 1 of 2

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Light Valley Solar

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Light Valley Solar

DCO Submission

Appendix 16.3: Ground Conditions Preliminary Risk Assessment Part 1 of 2

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1 Introduction

1.1 Context

1.1.1 Light Valley Solar Limited (The 'Applicant') has commissioned an Environmental Statement (ES) to support a Development Consent Order (DCO) Application for Light Valley Solar (the Proposed Development), located within the North Yorkshire Council area, near Selby.

1.1.2 As part of the Preliminary Environmental Information Report (PEIR) a geoenvironmental Preliminary Risk Assessment (PRA) desk study was produced and is documented in this report. Since the PEIR was produced the Assessment Areas have been amended which has resulted in a change to some of the Cable Route Corridors (CRC). However, as the amended Order Limits for the Cable Route Corridors are within the assessment areas considered for this PRA at PEIR, this assessment has not been updated in its entirety for the ES stage, as the overall outcomes of the assessment have not changed. It has however been amended to reflect changes from the original assessment, where applicable.

1.1.3 A new Cable Route Corridor identified as "Cable Route Corridor 1-4a" has been added to the Order Limits since PEIR. An assessment for this Cable Route Corridor has been added to the PRA and is documented in Section 28 and 29.

1.1.4 Where the boundaries of the Solar Development Sites 1 and 4 have been amended between PEIR and ES, the assessment sections have been updated to fully reflect those changes.

1.2 Proposed Development

1.2.1 The Proposed Development comprises a solar photovoltaic (PV) electricity generating station of over 100 megawatts (MW) and 'associated development' comprising a Battery Energy Storage System (BESS), grid connection infrastructure and other infrastructure integral to the construction, operation and maintenance, and decommissioning phases.

1.2.2 The main element of the Proposed Development comprises seven Solar Development Sites (Solar Development Sites 1-4 and 6-8) that will accommodate the Solar PV Panels. A BESS Compound will be located within Solar Development Site 2.

1.2.3 The Cable Route Corridor is the area within which the export connection cables (hereafter referred to as the 'Grid Connection Cables') would be located to connect the Solar PV Sites to the National Grid at the existing Monk Fryston Substation (hereafter referred to as the 'Existing National Grid Monk Fryston Substation') and the area within which cables connecting the Solar Development Sites would be located (hereafter referred to as 'Interconnecting Cables') (refer to Figure 2.1: Illustrative Site Layout Plan (ES Volume 2) [**EN0110012/APP/LVS/06.02.02.01**].

1.2.4 Further details of the Proposed Development are presented in Chapter 2: The Proposed Development [**EN0110012/APP/LVS/06.01.02**] and the design envelope for the Proposed Development is set out in the Design Parameters and Commitments Document [**EN0110012/APP/LVS/05.06**] and the limits of deviation shown on the Works Plans [**EN0110012/APP/LVS/02.03**].

1.2.5 The BESS would be mounted on concrete foundations (likely concrete base or monolith plinth up to 2 m deep 'raft' foundation), although other types of foundations such as compacted gravel, metal pile or screw pile may be used depending on ground conditions. This will be assessed during detailed design.

1.2.6 Underground Interconnecting Cables within the Solar Development Sites will connect the conversion units and sub-stations at 33 kV or up to 275 kV depending on the electrical design. For the Interconnecting Cable the open cut cable trench would be up to approximately 7 m wide. This includes separation distances where multiple cables are running in parallel. Trench depth would be approximately 2 m depth subject to design and ground conditions.

1.2.7 The foundation design for the substations and conversion units will be confirmed during detailed design. It is assumed that the conversion units would be founded on a concrete foundation slab, strips or footings up to 16 m by 6 m and a levelling layer of aggregate with a maximum depth of 0.8 m, or a concrete plinth set onto topsoil where non-ground penetrative works are required. The substations are assumed, as a reasonable worst-case, to have a raft foundation of up to 2.5 m depth and up to 15 m depth for piled foundations.

1.2.8 The Solar PV Panels will be secured via metal posts driven into ground to an approximate depth of 1.5 m to 4 m (dependent on ground conditions). In areas where archaeological protection is required, concrete feet or other non-penetrative ground techniques could be used.

1.2.9 The Solar Development Sites and existing National Grid Monk Fryston Substation will be connected via underground Grid Connection Cables up to 275 kV within the Cable Route Corridors. The cable will be installed in a trench up to 2 m wide and up to 2 m depth. The cables are anticipated to be installed using cable trenching wherever possible. Temporary Cable Construction Compounds along the routes will also be required. Where cable trenching methods cannot be used (e.g. going beneath watercourses, railways and roads) trenchless solutions such as horizontal directional drilling (HDD) are proposed. The construction working area for the Grid Connection Cables is generally anticipated to be up to a 25 m wide corridor, which includes the trench, soil and spoil storage, working area and haul road passing places as required.

1.2.10 In addition, there will be several temporary Construction Compound areas that are located within the Order Limits.

1.2.11 During the operational phase of the Proposed Development on-site activities would be limited and restricted principally to vegetation management and equipment maintenance, servicing and replacement.

1.2.12 The process of decommissioning would involve the removal of all solar infrastructure, and BESS and associated infrastructure to a depth of 1.2 mbgl. The Interconnecting Cables and Grid Connection Cables decommissioning would be dependent upon government policy and good practice at that time. The method chosen for decommissioning cables will not affect the conclusions of this assessment. Currently, the most environmentally acceptable option is considered to be leaving the cables in situ.

1.3 Objective

1.3.1 The objective of this assessment is to review available historical and geoenvironmental information pertaining to the Solar Development Sites and Cable Route Corridors and the nearby surrounding area, highlighting any potential ground related risks to the Proposed Development. The desk study information described in this report has then been used to develop an initial Conceptual Site Model (CSM) and PRA. This document has been prepared to support the ES.

1.4 Sources of information

1.4.1 The following key existing documentation relevant to the site has been acquired. Additional supporting information is referenced where applicable:

1) Groundsure Enviro and Geo Insights reports (provided in Annexes A to M);
2) Groundsure GIS historical map data (selected map extracts provided in Annexes A to M);
3) Mining Remediation Authority Consultants Coal Mining Report (obtained for the Solar Development Sites and provided in Annexes A to F)
4) Google Earth Pro aerial imagery;
5) Zetica unexploded ordnance (UXO) online risk maps (Ref 15);
6) British Geological Survey (BGS) borehole records and geological maps at 1:50,000 scale in hard copy and digital formats (Ref 4, Ref 5, Ref 6, Ref 7, and Ref 8); and
7) Mining Remediation Authority online map viewer (Ref 13);
8) Abstraction licenses from groundwater and surface water requested from the Environment Agency (details are provided in Chapter 15: Water Resources and Flood Risk (ES Volume 1) [**EN0110012/APP/LVS/06.01.15**]);
9) List of private water supplies requested from Local Authorities (details are provided in Chapter 15: Water Resources and Flood Risk (ES Volume 1) [**EN0110012/APP/LVS/06.01.15**]).

1.4.2 The report has been prepared in general accordance with the technical guidance and procedures described in:

1) Environment Agency (2023) Land Contamination Risk Management (LCRM) guidance (Ref 1).
2) British Standard (BS) 5930:2015 (as amended) Code of Practice for Site Investigations (Ref 2).
3) BS 10175:2011 (as amended) Investigation of Potentially Contaminated Sites – Code of Practice (Ref 3).

1.4.3 A site walkover of the Solar Development Sites was undertaken in January and February 2025. Given the scale of the Solar Development Sites, it was not feasible to walkover the entire Site and key areas were inspected. A site walkover of the Cable Route Corridor areas was not undertaken due to their scale and based on the findings of this desk study.

1.5 Report structure

1.5.1 Due to the scale of the Order Limits the desk study information for each Solar Development Site and Cable Route Corridor Area has been assessed separately and a CSM and PRA has been produced for each area with the information documented in the following Sections:

1) Sections 2 and 3 summarise the desk study information and describes the CSM and PRA for Solar Development Site 1;
2) Sections 4 and 5 summarise the desk study information and describes the CSM and PRA for Solar Development Site 2;
3) Sections 6 and 7 summarise the desk study information and describes the CSM and PRA for Solar Development Site 3;
4) Sections 8 and 9 summarise the desk study information and describes the CSM and PRA for Solar Development Site 4;
5) Sections 10 and 11 summarise the desk study information and describes the CSM and PRA for Solar Development Site 6;
6) Sections 12 and 13 summarise the desk study information and describes the CSM and PRA for Solar Development Site 7;
7) Sections 14 and 15 summarise the desk study information and describes the CSM and PRA for Solar Development Site 8;
8) Sections 16 and 17 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 1-4 (Solar Development Site 1 to Solar Development Site 4);
9) Sections 18 and 19 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 2-4 (Solar Development Site 2 to Solar Development Site 4) and Cable Route Corridor 2-8 (Solar Development Site 2 to Solar Development 8);

10) Sections 20 and 21 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 2-6 (Solar Development Site 2 to Solar Development Site 6);
11) Sections 22 and 23 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 3-4 and Cable Route Corridor 3-4a (Solar Development Site 3 to Solar Development Site 4);
12) Sections 24 and 1 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 6-7 (Solar Development Site 6 to Solar Development Site 7);
13) Sections 26 and 27 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 4-POC (Solar Development Site 4 to Monk Fryston);
14) Sections 28 and 29 summarise the desk study information and describes the CSM and PRA for Cable Route Corridor 1-4a (Solar Development Site 1 to Solar Development Site 4);
15) Section 30 provides a summary of the assessment and recommendations.

1.5.2 The temporary Cable Construction Compound areas are located within the Cable Route Corridors or within the Solar Development Sites; therefore, the desk study information relating to these areas are included in the sections above and the compounds have not been assessed as separate site areas.

1.5.3 The Highways Improvements Areas and areas to be used for access for the Cable Route Corridor have not been assessed within this PRA, this is because they comprise highly localised works relating to access and visibility improvement, largely vegetation management and temporary removal of street furniture which are not considered to result in potential ground related risks to, or from, the Proposed Development.

2 Solar Development Site 1 Site Information

2.1 Introduction

2.1.1 Desk study information relating to Solar Development Site 1 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex A.

2.2 Site location and description

2.2.1 The Site location and description of Solar Development Site 1 is summarised in Table 2-1.

Table 2-1 Site location and description

Site location and description	
Site Location	Land approximately 575 m to the east of the village of Escrick, North Yorkshire. National Grid Reference (NGR) 465226, 442049. The Site covers an area of approximately 345 ha.
Site Description	Solar Development Site 1 is predominantly agricultural fields separated by hedgerows, land drains, trees and some small woodland parcels. There are a number of farm holdings adjacent to the site including Tileshed Farm, Manor

Site location and description	
	Farm and Mount Pleasant Farm. A wind turbine is present in the east of the Site. Several small ponds are present in the north and centre of the site. Whinchat Dyke and Chatterton Dyke are named land drains in the south of the Site which flow into Pallion Dyke located on the southeastern boundary. The Site is bounded by Millfield Plantation and fields on the northern boundary and Skipwith Road along the western boundary. Unnamed farm tracks cross the site providing access from the roads to the farm dwellings. Three public footpaths cross through the Site. Overhead power lines follow the eastern site boundary and cross the northwest of the site.
Topography	The topography of the site is undulating with a general slope down towards the south from approximately 12 m Ordnance Datum (OD) in the north to 5 m OD in the south.
Adjacent and surrounding land use	The surrounding area is predominantly rural agricultural land with the village of Escrick 575 m to the west. An area of woodland known as Gilbertson's Wood lies adjacent to the eastern Site boundary.

2.3 Site history

2.3.1 Historical Ordnance Survey (OS) maps of Solar Development Site 1 and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex A.2.

2.3.2 The historical OS maps obtained from Groundsure date between 1851 and 1995. A summary of the main features identified on the historical maps and Google Earth Pro aerial images within the Site and surrounding area is presented in Table 2-2.

Table 2-2 Summary of site history

Map date	On Site	Off-Site
1851 – 1854	Site is predominantly undeveloped agricultural land comprising fields with land drains, woodlands and small ponds. Several small sand and gravel pits are present. Pallion Farm is present in the centre of the Site.	Multiple existing farm dwellings associated with Mount Pleasant Farm adjacent to the centre of the Site and Shallows Farm to the southwest are present adjacent to the Site boundary. Old Tile Shed House, assumed to be a residential dwelling is approximately 250 m to the north of the Site. Gilbertson's Farm is present approximately 200 m to the northeast and Bridge Farm is present adjacent to the southern Site boundary. Areas of woodland lie adjacent to the Site including Grays Reins woodland and Wrays

Map date	On Site	Off-Site
		Wood to the northeast and Millfield Plantation to the northwest. Several small ponds and pits are present adjacent to the Site boundary including Moor Head Decoy which appears to be a pond to the west of the Site. A pump and sand pit are present offsite adjacent to the centre of the Site.
1892 – 1893	Pits to the east of Manor Farm and the southwest of Pallion Farm are no longer present.	Two old clay pits present adjacent to the eastern Site boundary. Woodland to the east has expanded.
1950	Minor changes to land use have occurred on Site with tree planting, infilling of quarry pits (to the south of Old Tile Shed House) and changes to field boundaries.	New buildings present adjacent to the southwest Site boundary. Minor changes of land use from agriculture to forestry and changes to farm buildings.
1995	Minor changes have occurred across the Site, including realignment of drainage ditches, new tracks, infilling of old pits and changes to farm buildings.	Minor changes of land use from agriculture to forestry and changes to farm buildings.
2002	Evidence of earthworks for a linear buried utility trending northeast to southwest is present across the southeast of the Site. Pallion Farm is no longer present in the centre of the Site.	No change
2012	Wind turbine present in the northeast of the Site.	No change
2024	No change	No change

2.3.3 The maps show that Solar Development Site 1 has been agricultural land since the earliest available mapping in 1851. Clay, gravel and sand pits were present

across the Site and in the surrounding area since 1951 and since appear to have been backfilled or formed ponds. Some ponds are noted which are no longer present and it is possible they may have naturally dried up or may have been backfilled. A wind turbine has been present in the northeast of the Site since 2012.

2.3.4 The site has continued to be used for agricultural land to present day.

2.4 Physical setting

2.4.1 The physical setting of the Site is summarised in Table 2-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 16 and Ref 17) and Coal Mining Report (Ref 18) provided in Annex A and other sources of information summarised in Section 1.4.

Table 2-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex A.1) identified an area of mapped Made Ground identified as “Worked ground – Void” in the north of the site. This appears to coincide with an existing pond to the south of Tileshed Farm. Other localised areas of mapped Made Ground are present in the area surrounding the site (within 250 m), the majority of these are also shown as Worked Ground-voids and are likely to relate to other small ponds or pits. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities and potential backfilled ponds may be present.
Superficial geology	The BGS map shows superficial deposits are present across the entire site comprising: Skipwith Sand Member (clayey, gravelly sand) in the south; Sutton Sand Formation (sand) in localised areas in the centre and south; Thorganby Clay Member (silty clay) in the southeast and north; Escrick Moraine Member (clay, sandy, gravelly) of the Value of York Formation in the north; Elvington Glaciolacustrine Formation (silty clay) to the north of the site; and Naburn Sand Member (silty sand) to the north of the site.
Bedrock	The BGS map shows bedrock beneath the Site comprises the Sherwood Sandstone Group. The stratum comprises red, yellow and brown sandstone with conglomeratic in the lower part with subordinate red mudstone and siltstone (Ref 4).

Physical characteristics	
Geological structures	Four inferred faults are recorded on the BGS maps. Two faults trend southwest to northeast through the north and centre of the Site. Two faults trend northwest to southeast through the southern part of the Site.
BGS borehole records	There are two non-confidential BGS borehole records within the Site and a further eight records within 250 m. The borehole records indicate superficial deposits comprise variable layers of clay, sand, loamy sand and sandy clay which are typically between 25 m and 30 m thick over the sandstone bedrock. The bedrock is proven to be at least 25 m thick.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex A.3. The Site is located within a Coal Mining reporting area and area of historical coal mining activity and area of historical coal mining activity (Ref 18). Past underground coal mining is recorded at Stillingfleeet and North Selby coal collieries, located approximately 3.9 km and 1.1 km to the west and north of the site, respectively. The worked seam at both mines was the Barnsley coal seam with a working level between 873 m and 1043 m below ground level (bgl). The North Selby colliery worked the seam beneath the Site and the Stillingfleet colliery worked the seam toward the southwest. Coal mining activities ceased at the North Selby colliery in 1994 and at the Stillingfleet colliery in 2003. No mine entries or development high risk areas are present within 250 m of the Site and there are no records of past or probable shallow coal mine workings. There are records of ten coal mining subsidence damage notices or claims for alleged subsidence damage across the north of the Site made in the 1990s and early 2000s. Of these six claims were rejected. The risk of significant coal mining related subsidence impacting the Proposed Development is considered to be low.
Non-coal mining /minerals	The Groundsure report records one historical gravel extraction pit, known as Manor Farm Gravel Pit within the centre of the Site, which produced sand and gravel. A further two historical clay pits (Pallion Dike Clay Pit) are recorded adjacent to the east and southeastern Site boundary. An unspecified pit was located in the north of the Site between 1910 and 1950 (area marked on BGS map as Made Ground). None of the pits identified are currently in operation.

Physical characteristics	
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex A.4.
Hydrogeology	
Aquifer designation	The Thorganby Clay Member beneath the Site is designated as an Unproductive aquifer. All other superficial deposits beneath the Site are designated as Secondary Undifferentiated aquifers. The Sherwood Sandstone Formation bedrock is designated as a Principal aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ and there are none within 250m of the site.
Licensed groundwater abstractions	There are no active licensed abstractions on the Site. There is one active licensed abstraction within 250 m located approximately 40 m to the south at Escrick Park Home Farm, licence number NE/027/0024/056, with a daily abstraction volume of 5,616 m^3 and annual abstraction volume 322,000 m^3. Groundwater is abstracted from the Sherwood Sandstone for spray irrigation.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions within the Site or within 250m.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the site (Ref 17): Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40402G990400. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	OS plans show there are three unnamed ponds within the Site boundary. One to the west of Fairburn Gorse and two directly to the south of Manor Farm. A further two ponds are located adjacent to the west and southwest site boundaries. A series of land drains area present across the Site and within the surrounding area. One unnamed stream emerges in the northeast of the Site (to the south of Fairburn Gorse) and flows to the east into Keldcarrs drain between Gilbertson's Wood and Keldcarrs Plantation on the eastern site boundary. Whinchat Dyke and Chatterton Dyke are named land drains in the south of the Site which flow into Pallion Dyke which flows along the southeastern boundary of the Site.
Surface Water WFD bodies	Two Water Framework Directive (WFD) surface water body catchment areas are located on the site (Ref 17):

Physical characteristics	
	Riccall Dam Catchment (tributary of Ouse), water body ID GB104027063690, is located across a majority of the site. The area forms part of the Ouse Lower Yorkshire operational catchment and Wharfe and Ouse Lower management catchment. This water body has a moderate overall rating; and Stillingfleet Beck Source to Ouse, water body ID GB104027063710, is located to the northwest of the Site. The area forms part of the Ouse Lower Yorkshire operational catchment and Wharfe and Ouse Lower management catchment. This water body has a moderate overall rating.
Licensed surface water abstractions	There is one active licensed surface water abstraction within the south of the Site for spray irrigation, which is licensed to Escrick Park Home Farm, licence number NE/027/0024/049. Surface water is abstracted from Pallion Dike Thornganby to Dam Dike Skipwith for spray irrigation. The licence has a maximum daily abstraction volume of 1,260 m^3 and annual abstraction volume is 54,900 m^3. No other licensed surface water abstractions are recorded within the vicinity of the site.

2.5 Summary of environmental setting and regulated activities

2.5.1 The environmental setting and regulated activities at the Site and surrounding area is summarised in Table 2-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 17) provided in Annex A.1 and other sources of information summarised in Section 1.4.

Table 2-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	Four active licensed discharges are present within the Site. All four are for sewage discharges – final/treated effluent (not water company) belonging to the farms, with one for discharge to land via soakaway, one for discharge to an unnamed ditch and two for discharge to ditch to Pallion Dike. A further three active licensed discharges are present within 250 m of the Site.
Pollution incident register	No pollution incidents are recorded within the Site. One pollution incident was recorded approximately 186 m southeast of the site on 10 March 2003. The incident was reported as contaminated water due to vegetable washing and was assigned a

Environmental Setting	
	category 3 (minor impact) to water and category 4 (no impact) to land and air (Ref 14).
Licensed industrial activities	Two licences located 248 m to the south of the Site held by Tarmac Trading Ltd for an Asphalt Waste recycling facility.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	One 248 m to the south of the site for an Asphalt Waste Recycling Facility.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the site. These comprise the storing, disposing of and using waste associated with agricultural activities.
Protected areas	
Sensitive sites (within 250 m)	Gilbertsons Wood adjacent to the eastern site boundary is designated as Ancient Woodland. There are no other sensitive sites (e.g., Site of special scientific interest (SSSI), special protection area (SPA), special area of conservation (SAC) etc.) within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the site is situated in an area of low UXO risk (Ref 12).
Nitrate vulnerability	The site is located in a nitrate vulnerable zone(NVZ).

2.6 Industrial land use

2.6.1 According to the Groundsure Report (Ref 17) recent industrial land uses within Solar Development Site 1 are for energy production relating to the wind turbine located in the east of the Site.

3 Solar Development Site 1 Conceptual Site Model and preliminary risk assessment

3.1 Approach

3.1.1 Land contamination can present an environmental liability and a constraint to site development. The principal UK legislation related to land contamination is contained within Part 2A of the Environmental Protection Act 1990 (Ref 51). Only land where unacceptable risks are clearly identified, after a risk assessment has been undertaken in accordance with guidance, should be considered as meeting the Part 2A definition of contaminated land. In England planning policy relevant to site development is set out in the National Planning Policy Framework 2024 (Ref 49) and National Planning Practice Guidance (PPG) (Ref 50).

3.1.2 The central objectives of the land contamination regime across the UK are the prevention of significant harm, promotion of sustainable development and a "suitable for use" approach to land remediation. It is founded upon the promotion of risk assessment approach to managing land contamination. Focusing on establishing where risks to human health or the wider environment are unacceptable and then taking appropriate and cost-effective action to deal with these risks.

3.1.3 Across the UK a source-pathway-receptor approach to contamination risk assessment and management is applied based upon the development of a conceptual model for the site, which identifies potential pollutant linkages. The "source" is defined as any contamination on the site, which may impact one or more "receptors", including people, plants, ecosystems, building materials and water resources. For there to be a contaminant linkage, and therefore a potential risk, there must be a "pathway" between the source and the given receptor.

3.1.4 The CSM is used to articulate and systematically guide assessment of risks associated with contamination at the site. The objectives of the CSM must be clearly defined. For this PRA report the CSM considers future development of the site (excluding construction phase).

3.1.5 The risk assessment framework used is described in Annex N.

3.2 Conceptual site model

3.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

3.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland and potential backfilled ponds and pits;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;

3) Historic elevated pesticides and herbicides associated with agricultural use of the Site.

Off-Site:

4) Potential localised Made Ground contamination from old pits (potentially backfilled) located adjacent the east, southeast and north of the Site;
5) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils;
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);
4) Surface watercourses including streams and ponds on and adjacent to Site;
5) Groundwater in the underlying Secondary Undifferentiated superficial aquifer and Principal bedrock aquifer;
6) Licensed groundwater abstraction 240 m to the south for spray irrigation;
7) Below ground infrastructure including buried concrete and utilities including cables;
8) Public access via footpaths.

3.3 Preliminary Risk Assessment

3.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 1 has been produced. The qualitative assessment of the possible linkages is provided in Table 3-1.

3.3.2 The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included).

3.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance workers. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed

versions of the management plans produced pursuant to the Outline Construction Environmental Management Plan (oCEMP) [**EN0110012/APP/LVS/07.02**], Outline Operation Environmental Management Plan (oOEMP) [**EN0110012/APP/LVS/07.03**], and Outline Decommissioning Environmental Management Plan (oDEMP) [**EN0110012/APP/LVS/07.04**].

Table 3-1 Potential sources, pathways and receptors Solar Development Site 1

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the farmland and potential backfilled ponds and pits	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**]. Operational areas of the Site will be fenced off to prevent public access off footpaths crossing the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**]. The potential contaminant sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						considered to be isolated and minor and unlikely to present a risk to surface water
		Off-site groundwater abstraction	Medium	Unlikely	Low	Based on the information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to the off-site abstraction.
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Dermal contact, ingestion or inhalation	Public access via footpaths	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Mild	Low	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Off-site groundwater abstraction	Medium	Unlikely	Low	The potential sources are considered to be isolated and minor. Given the distance from Site the likelihood of risk is improbable.
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
		Off-site groundwater abstraction	Medium	Unlikely	Low	Given the distance from Site the likelihood of risk is improbable.
Old pits off-site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the pits is anticipated to be of limited extent and low gas generation potential.

3.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

3.4.1 The Proposed Development construction works will be undertaken in compliance with Construction Design and Management (CDM) Regulations 2015.

3.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

3.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

3.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

3.4.5 The risk to construction workers during excavation (where required) and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Site.

3.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

3.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

3.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

3.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

3.5 Preliminary Risk Assessment conclusions

3.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses or possible infilled ground such as former pits.

3.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

4 Solar Development Site 2 site information

4.1 Introduction

4.1.1 Desk study information relating to Solar Development Site 2 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex B.

4.2 Site land location and description

4.2.1 The Site location and description of Solar Development Site 2 is summarised in Table 4-1.

Table 4-1 Site location and description

Site location and description	
Site Location	Land approximately 1.2 km to the east of Monk Fryston, North Yorkshire. NGR 452726 430296. The Site covers an area of approximately 83 ha.
Site Description	The Site is predominantly used for agricultural land with fields separated by hedgerows and land drains. An access road runs north to south through the centre of the Site connecting the A63 to Fryston Common Lane. Fleet Dike watercourse flows west to east through the centre of the Site and Causeway Dyke is present along the southern Site boundary.

Site location and description	
	The A63 runs parallel to the southern site boundary and Fryston Common Lane runs through the north of the Site. Overhead power lines cross the southeast corner of the Site and run adjacent to the access road in the centre of the Site.
Topography	The topography of the site is relatively flat at an elevation of approximately 10 m above Ordnance Datum (AOD).
Adjacent and surrounding land use	The surrounding area is predominantly rural agricultural land with nearby farm dwellings and woodland areas. Siddle Farm House lies adjacent to the northern site boundary. The site is located 1.4 km east of the junction of Water Lane and the A63 in Monk Fryston.

4.3 Site history

4.3.1 Historical OS maps of the Site and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex B.2.

4.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Site and surrounding area is presented in Table 4-2.

Table 4-2 Summary of site history

Map date	On Site	Off-Site
1850	Site predominantly undeveloped agricultural land comprising several fields with land drains. Fleet Dike flows through the centre of the Site. A small pit is present in the northeast of the Site.	Siddle House Farm, Common Farm and associated farm buildings present to the north. Small pits are present adjacent to the northeast boundary. Hambleton Causeway runs adjacent to the southern site boundary.
1892	No change	No change
1908	Pit is no longer present in the northeast of the Site. New building associated with Siddle House Farm is present in the north of the Site.	No change
1950	No significant change	Electricity pylon present adjacent to the southeast corner of the Site. Pits to the northeast of the Site are no longer present.
1961 - 1968	Farm building in the north of the Site is no longer present. Field boundaries on Site have changed.	A63 is present adjacent to the southern Site boundary. New residential buildings to the southeast of the Site
1983 - 1995	No change	No change
2007	No change	New farm buildings are present approximately 70 m to the northwest.

Map date	On Site	Off-Site
2025	No change	No change

4.3.3 The maps show that Solar Development Site 2 has been agricultural land since the earliest available mapping in 1850. A small pit was present in the northeast of the Site between 1850 and 1908 which appears to have been backfilled.

4.3.4 No significant changes in land use within the surrounding area are observed on the available historical maps and the sites have continued to be used for agricultural land to present day.

4.4 Physical setting

4.4.1 The physical setting of the Site is summarised in Table 4-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 19 and Ref 20) and Coal Mining Report (Ref 21) provided in Annex B and other sources of information summarised in Section 1.4.

Table 4-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex B.1) records an area of mapped Made Ground identified as “Artificial Deposit” in a localised area in the northeast of the Site, comprising infilled ground worked ground-void. Although not shown on the BGS map, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities and access tracks may be present.
Superficial geology	The BGS map shows superficial deposits are present across the entire site comprising: Hemingbrough Glaciolacustrine Formation (silty clay) beneath the majority of the site. Breighton Sand Formation (sand) beneath the northeast of the site and in localised areas in the east. Alluvium (clay, silt, sand and gravel) beneath the northeast boundary of the site.
Bedrock	The BGS map shows bedrock beneath the Site comprises the Sherwood Sandstone Group beneath the east of the Site and Roxby Formation beneath the centre and west of the Site. The Sherwood Sandstone stratum comprises red, yellow and brown sandstone with conglomeratic in the lower part with subordinate red mudstone and siltstone and the Roxby Formation comprises reddish-brown mudstone and siltstone with subordinate sandstone (Ref 4).
Geological structures	A northeast to southwest trending normal fault downthrown to the southeast is inferred to be present in the northwest of the site. A second fault of similar trend but downthrown to the northwest is present adjacent to the northern site boundary.

Physical characteristics	
BGS borehole records	There is one non-confidential BGS borehole record within the Site and a further seven records within 250 m. The borehole records indicate superficial deposits comprise variable layers of sand and clay which are typically between 9 m and 18 m thick over the bedrock.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex B.3. The site lies within a Coal Mining Reporting area (Ref 17). No past underground mining is recorded, or past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site.
Non-coal mining /minerals	No records of extraction activities are recorded within the Groundsure report within 250 m of the Site.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex B.4.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Site is designated as an Unproductive aquifer. All other superficial deposits beneath the Site are designated as Secondary A aquifers. The Sherwood Sandstone Formation bedrock is designated as a Principal aquifer. The Roxby Formation is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ. There is one SPZ within 250m, a Zone 1 (inner catchment) SPZs are located approximately 50 m to the west of the site.
Licensed groundwater abstractions	There are no active licensed abstractions on the Site. There are three active licensed abstraction within 250 m of the Site as follows: 4 m to the northeast of the Site at Hartleys Farming Ltd, licence number 2/27/24/446/R01, with a daily abstraction volume of 500 m^3 and annual abstraction volume 35,000 m^3. Groundwater is abstracted for spray irrigation. 100 m to the west of the Site at Monk Fryston Farm Partners, licence number 2/27/24/320, with a daily abstraction volume of 27 m^3 and annual abstraction volume 9,953 m^3. Groundwater is abstracted for general farming and domestic use.
Unlicensed groundwater abstractions	There are no unlicensed abstractions within the site or within 250m.
Groundwater Water Framework	Two WFD groundwater bodies are located beneath the site (Ref 20): Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating is classified as poor.

Physical characteristics	
Directive (WFD) bodies	Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40401G702400. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Fleet Dike watercourse emerges from the woodland adjacent to the northeast corner of the Site and flows from east to west through the centre of the Site discharging into Causeway Dyke which runs adjacent to the southern site boundary. Several unnamed land drains are present in the surrounding area.
Surface Water (WFD) bodies	One WFD surface water body catchment area is located on the site (Ref 20): Selby Dam from Conf. Fox Dike and Carr Dike to Ouse water body ID GB104027063620, is located across a majority of the site. The area forms part of the Ouse Lower Yorkshire operational catchment and Wharfe and Ouse Lower management catchment. This water body has an overall moderate rating.
Licensed surface water abstractions	There is one active licensed surface water abstraction within the north of the Site for spray irrigation, which is licensed to Hartleys Farming Ltd, licence number 2/27/24/469/R01. Surface water is abstracted from Fleet Dyke – Monk Fryston for spray irrigation. The licence has a maximum daily abstraction volume of 635 m^3 and annual abstraction volume is 45,460 m^3. No other licensed surface water abstractions are recorded within the vicinity of the site.

4.5 Summary of environmental setting and regulated activities

4.5.1 The environmental setting and regulated activities at Solar Development Site 2 and surrounding area is summarised in Table 4-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 20) provided in Annex B.1 and other sources of information summarised in Section 1.4.

Table 4-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no licensed discharge consents within 250 m of the Site.
Pollution incident register	No pollution incidents are recorded within 250 m of the Site.
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Site.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.

Environmental Setting	
Licensed waste sites	None within 250 m of the Site.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the site. These comprise the storing, disposing of and using waste associated with farming and agricultural waste at Siddle Farm House.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the site is situated in an area of low UXO risk (Ref 12).
Nitrate vulnerability	The site is located in a NVZ.

4.6 Industrial land use

4.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within Solar Development Site 2 or surrounding area.

5 Solar Development Site 2 Conceptual Site Model and Preliminary Risk Assessment

5.1 Approach

5.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

5.2 Conceptual site model

5.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

5.2.2 On Site:

1) Potential localised Made Ground associated with the farmland and backfilled pit;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site.

Off-Site:

4) Potential localised Made Ground from old pits (potentially backfilled) located to the northeast of the Site
5) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);
4) Surface watercourses including streams on and adjacent to Site;

5) Groundwater in the underlying Secondary A superficial aquifer and Principal and Secondary B bedrock aquifers;

6) Licensed groundwater abstractions for spray irrigation and general farming and domestic use to the west and northeast of the site and one is assigned SPZ1, located 50 m to the west;

7) Licensed surface water abstraction in the north for spray irrigation;

8) Below ground infrastructure including buried concrete and utilities including cables; and

9) Public access via access roads.

5.3 Preliminary Risk Assessment

5.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 2 has been produced. The qualitative assessment of the possible linkages is provided in Table 5-1.

5.3.2 The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included).

5.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 5-1 Potential sources, pathways and receptors Solar Development Site 2

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the farmland and backfilled pit	Dermal contact, ingestion or inhalation of soil or dust	Public access via access roads	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**]. Operational areas of the Site will be fenced off to prevent public access to the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**]. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Licensed water abstractions	Medium	Unlikely	Low	There are two groundwater abstractions in the area surrounding the Site and one surface water abstraction in the north of the Site. Due to the nature of the site being largely undeveloped agricultural land, and the limited potential sources identified, it is considered unlikely that there would be a risk to abstractions. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential. In addition the potential receptors are limited in nature and as such it is unlikely that a risk may be posed.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with	Dermal contact, ingestion or inhalation of soil or dust	Public access via access roads	Mild	Unlikely	Very Low	Leaks or spills could adversely affect human health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public. Operational areas of the Site will be fenced off to prevent public access to the Site.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
the agricultural use of the Site	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Licensed water abstractions	Medium	Unlikely	Low	Licensed water abstractions are present in the area surrounding the Site. The presence of significant sources of contamination associated with agricultural land is likely to be isolated and minor and unlikely to pose a significant risk to abstractions. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via access roads	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public. Operational areas of the Site will be fenced off to prevent public access to the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Mild	Low	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
Old pits off-site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the pits is anticipated to be of limited extent and low gas generation potential.

5.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

5.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

5.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

5.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

5.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provided in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

5.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at Solar Development Site 2.

5.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

5.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

5.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

5.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

5.5 Preliminary Risk Assessment conclusions

5.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses or possible infilled ground such as former pits.

5.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

6 Solar Development Site 3 information

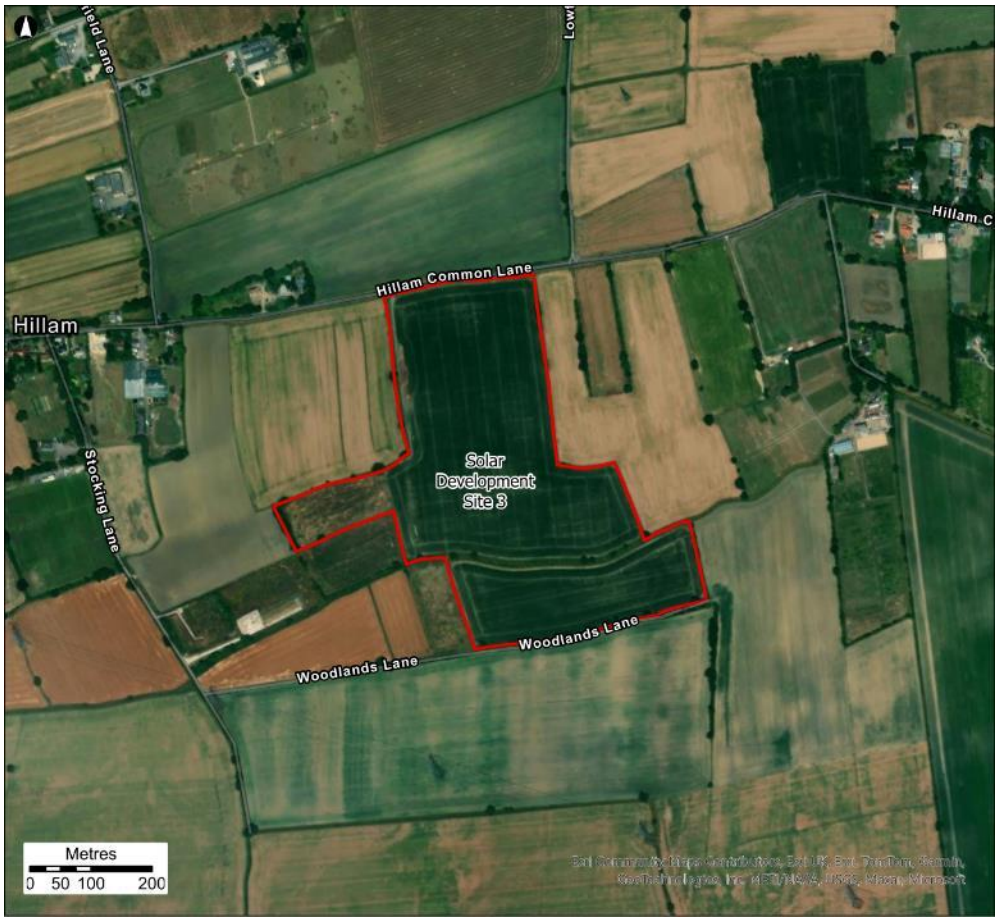
6.1 Introduction

6.1.1 Desk study information relating to Solar Development Site 3 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex C.

6.2 Site land location and description

6.2.1 The Site location and description of Solar Development Site 3 is summarised in Table 6-1.

Table 6-1 Site location and description

Site location and description	
Site Location	Land approximately 850 m to the east of the village of Hillam, North Yorkshire. NGR 452000 428604. The Site covers an area of approximately 19.9 ha. 
Site Description	The Site is predominantly used for agricultural land with fields separated by hedgerows occasional trees and land drains. Maspin Moor Drain flows through the south of the Site. Hillam Common Lane runs along the northern Site boundary and Woodland Lane along the southern boundary.

Site location and description	
Topography	The topography of the site is relatively flat at an elevation of approximately 10 m OD.
Adjacent and surrounding land use	The surrounding area is predominantly rural agricultural land with nearby farm dwellings and woodland areas. The A63 is located approximately 860 m to the north.

6.3 Site history

6.3.1 Historical OS maps of the Site and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex C.2.

6.3.2 The historical OS maps obtained from Groundsure date between 1852 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Site and surrounding area is presented in Table 6-2.

Table 6-2 Summary of site history

Map date	On Site	Off-Site
1852	Site predominantly undeveloped agricultural land comprising several fields with land drains.	Hillam Common Lane is present to adjacent to the northern Site boundary. Woodlands Lane is present adjacent to the southern Site boundary.
1901	No change	No change
1950	No change	Electricity transmission line is present to the northwest of the Site.
1961 - 1963	No change	Sewage works with tanks and filter beds are present 150 m to the southwest of the Site.
1995	No change	No change
2002	No change	No change
2019	No change	Expansion to the sewage works to the southwest of the Site.
2022	No change	Sewage works to the southwest of the Site is no longer present.

6.3.3 The maps show that Solar Development Site 3 has been agricultural land since the earliest available mapping in 1852. No significant changes in land use within the site are observed on the available historical maps and the sites have continued to be used for agricultural land to present day.

6.3.4 A sewage works was present to the southwest of the Site between the 1960s and 2022.

6.4 Physical setting

6.4.1 The physical setting of the Site is summarised in Table 6-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 19 and Ref 20) and Coal Mining Report (Ref 21) provided in Annex C and other sources of information summarised in Section 1.4.

Table 6-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	Made ground is not recorded on the BGS maps for the Site. However, localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present.
Superficial geology	The BGS map shows superficial deposits are present across the entire Site comprising: Breighton Sand Formation (sand) beneath the central part of the Site; and Hemingbrough Glaciolacustrine Formation (silty clay) beneath the west and southeast of the Site.
Bedrock	The BGS map shows bedrock beneath the Site comprises the Roxby Formation beneath the centre and west of the Site. The Roxby Formation comprises reddish-brown mudstone and siltstone with subordinate sandstone (Ref 4).
Geological structures	No faults are shown on the BGS maps within 250 m of the Site.
BGS borehole records	There are no BGS borehole records within the Site and one borehole records located 160 m to the north. The borehole records indicate superficial deposits comprise variable layers of sand and clay to a depth of 20.5 m over gypsum, marl and limestone bedrock proven to a depth of 39 mbgl.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex C.3. The site lies within a Coal Mining Reporting area. No past underground mining or past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site.
Non-coal mining /minerals	No records of extraction activities are recorded within the Groundsure report within 250 m of the Site.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex C.4.

Physical characteristics	
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Site is designated as an Unproductive aquifer. The Breighton Sand Formation beneath the Site is designated as a Secondary A aquifer. The Roxby Formation bedrock is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ and there are none within 250m.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions on the Site or within 250 m.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions on the Site or within 250 m.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the site (Ref 23): Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Maspin Moor Drain flows east to west through the south of the Site. Two unnamed drainage ditches run east to west adjacent to the northern and southern site boundaries. Multiple drainage ditches are present within 250 m of the site.
Surface Water (WFD) bodies	One WFD surface water body is located on the site (Ref 23): The Fleet from Source to River Aire surface water body, water body ID GB104027062740. The overall rating is classified as moderate.
Licensed surface water abstractions	There are no active licensed surface water abstraction 250 m of the Site.

6.5 Summary of environmental setting and regulated activities

6.5.1 The environmental setting and regulated activities at Solar Development Site 3 and surrounding area is summarised in Table 6-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 23) provided in Annex C and other sources of information summarised in Section 1.4.

Table 6-4 Summary of other environmental information

Environmental Setting
Environment Agency records

Environmental Setting	
Discharge consents	There are no active licensed discharge consents within 250 m of the Site.
Pollution incident register	No pollution incidents are recorded within 250 m of the Site.
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Site.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	None within 250 m of the Site.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Site. These comprise the storing of waste associated with farming activities.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Site is situated in an area of low UXO risk (Ref 12).
Nitrate vulnerability	The site is located in a NVZ.

6.6 Industrial land use

6.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within the Site. A sewage works with unspecified tanks, settling tanks and filter beds is recorded approximately 150 m to the southwest of the Site.

7 Solar Development Site 3 Conceptual Site Model and Preliminary Risk Assessment

7.1 Approach

7.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

7.2 Conceptual site model

7.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

7.2.2 On Site:

1) Potential localised Made Ground associated with the farmland;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site;

Off-Site:

4) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads; and
5) Former sewage works 150 m west.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);
4) Surface watercourses including streams on and adjacent to Site;
5) Groundwater in the underlying Secondary A superficial aquifer and Secondary B bedrock aquifer; and

6) Below ground infrastructure including buried concrete and utilities including cables.

7.3 Preliminary Risk Assessment

7.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 3 has been produced. The qualitative assessment of the possible linkages is provided in Table 7-1.

7.3.2 The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included).

7.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 7-1 Potential sources, pathways and receptors Solar Development Site 3

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with farmland	Leaching and migration	Secondary Aquifer	Mild	Unlikely	Very Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**]. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress	Below ground infrastructure including solar	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However,

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	of hazardous ground gas	panels, conversion units, buried concrete and utilities				made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Leaching and migration	Secondary Aquifer	Mild	Low	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
	Leaching and migration	Secondary Aquifer	Mild	Unlikely	Very Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow,

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Historic elevated pesticides and herbicides						based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant superficial cover above the bedrock aquifer which would limit vertical migration.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
Former sewage works off-site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the former sewage works is anticipated to be of limited extent and low gas generation potential which would limit the potential for migration of hazardous ground gases to the edges of the Site and as such it is unlikely a significant risk would be posed to the development.

7.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

7.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

7.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

7.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

7.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

7.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at Solar Development Site 3.

7.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

7.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

7.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

7.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

7.5 Preliminary Risk Assessment conclusions

7.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses.

7.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

8 Solar Development Site 4 site information

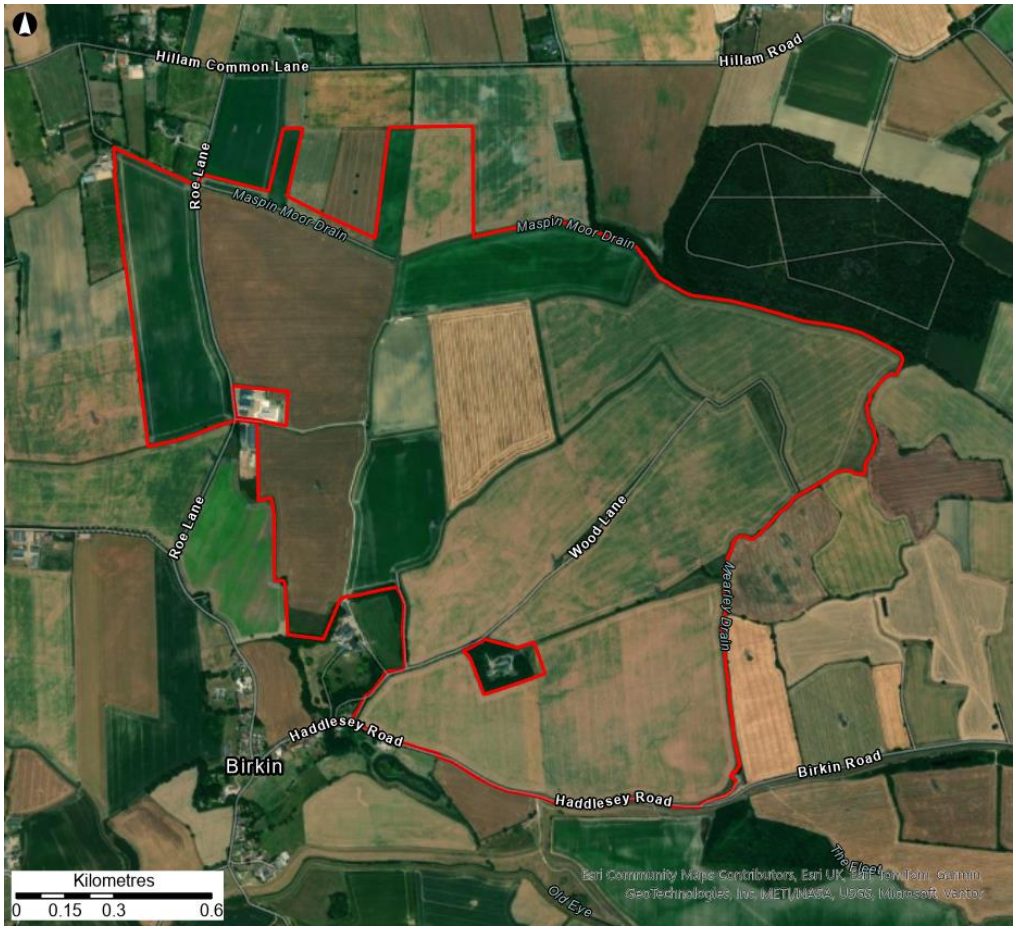
8.1 Introduction

8.1.1 Desk study information relating to Solar Development Site 4 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex D.

8.2 Site land location and description

8.2.1 The Site location and description of Solar Development Site 4 is summarised in Table 8-1.

Table 8-1 Site location and description

Site location and description	
Site Location	Land approximately 300 m to the northeast of the village of Birkin, North Yorkshire and 4 km east of Monk Fryston Substation. NGR 453957 427590. The Site covers an area of approximately 283.8 ha. 
Site Description	The Site is predominantly used for agricultural land with fields separated by hedgerows, occasional trees and land drains. Farm dwellings at Woodhouse Farm are present in the centre of the Site. The Site is crossed by Roe Lane in the northwest and Haddlesey Road on the southern boundary. Tinklers Lane provides access to Woodhouse from the western site boundary

Site location and description	
	Unnamed farm tracks and three public footpaths cross the Site. Overhead power lines cross the Site from northwest to southeast. Birkin Fisheries is present adjacent to the southwestern site boundary. Several land drains cross the Site including Mearley Drain, The Fleet and Maspin Moor Drain.
Topography	The topography of the site is relatively flat at an elevation of approximately 18 m OD.
Adjacent and surrounding land use	The surrounding area is predominantly rural agricultural land with nearby farm dwellings and woodland areas. Residential properties in the village of Birkin are present to the southwest. Gateforth Wood and Gateforth Common are adjacent to the northeast of the Site. The A63 is located approximately 1.3 km to the north. The River Aire flows west to east approximately 500 m to the south of the Site.

8.3 Site history

8.3.1 Historical OS maps of Solar Development Site 4 and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex D.2.

8.3.2 The historical OS maps obtained from Groundsure date between 1852 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Site and surrounding area is presented in Table 8-2.

Table 8-2 Summary of site history

Map date	On Site	Off-Site
1852	Site is predominantly undeveloped agricultural land comprising fields with land drains and woodland. Farm dwellings of Low Cottage and Middle Cottage present in the north and west of the Site respectively. The site is crossed by several access roads and footpaths are present across the Site.	Multiple existing farm dwellings associated with Wood House Farm in the centre of the Site and Birkin House Farm and Roefield House to the west of the Site. Birkin Holme House is present adjacent to the south of the Site. River Aire is approximately 500 m to the south of the site boundary. There are multiple small streams and ponds in the surrounding area. Pump present 40 m to the southwest of the Site near Birkin.
1892	No significant change	Cutting adjacent to the northeast site boundary which appears to be for a land drain and construction of Centre Old Road. Smithy present 30 m southwest of the Site near Birkin.

Map date	On Site	Off-Site
1908	Farm building present in the southwest of the Site to the north of Birkin House. A small excavation is present adjacent to Low Cottage in the north of the site.	Ponds and ground workings present to the south of the Site.
1950-58	Minor changes to field boundaries. Low Cottage is no longer present, excavation appears to have been infilled. Electricity transmission line present running from the southwest to northeast through north of the Site.	New buildings present at Birkin House Farm adjacent to the southwest Site boundary.
1973	Electricity transmission line present running through the southeast corner of the Site.	Smithy and pump to southwest no longer present.
1987	Middle Cottage is no longer present in the west of the Site.	New buildings are present at Roefield House and Woodhouse Farm.
1995	No change	New drainage ditch and river embankments and weirs are present between the Old Eye and River Aire at Little Ing Clough and Birkin Holme 200 m to the south of the Site. Electrical substation and new buildings are present at Roefield House adjacent to the west of the Site, now called Woodyfuel Pellet and Chip Biomass. New buildings are present at Bowers House Farm to the northwest of the Site.
2002	No change	Birkin Fisheries is present adjacent to the southern Site boundary off Haddlesey Road.
2023	No change	New building constructed at Woodyfuel Pellet and Chip Biomass adjacent to the western Site boundary.

8.3.3 The maps show that Solar Development Site 4 has been agricultural land since the earliest available mapping in 1852.

8.3.4 No major changes to land use on or offsite have occurred from the mid-1800s until present. An electricity substation has been present at Woodyfuel Pellet and Chip Biomass since 1995. Expansion of flood defences and pumping stations along the River Aire to the south of the Site was observed in 1995.

8.4 Physical setting

8.4.1 The physical setting of Solar Development Site 4 is summarised in Table 8-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 19 and Ref 20) and Coal Mining Report (Ref 21) provided in Annex D and other sources of information summarised in Section 1.4.

Table 8-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex D.1) records a linear area of mapped Made Ground identified as “Artificial Deposits” running along Haddlesey Road. Other areas of Made Ground are recorded to the south of the Site boundary and follow a linear pattern along the banks of surface watercourses and it is considered likely this is associated with the riverbank and/or flood defences. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities, access tracks and footpaths may be present.
Superficial geology	The BGS map shows superficial deposits are present across the entire Site comprising: Hemingbrough Glaciolacustrine Formation (silty clay) beneath the north, east and centre of the Site; Breighton Sand Formation (sand) beneath the north, west and south of the Site; and Alluvium (clay, silt, sand and gravel) is present adjacent to the southern boundary of the Site.
Bedrock	The BGS map shows bedrock beneath the Site predominantly comprises the Sherwood Sandstone Group (sandstone) beneath the majority of the site. The Roxby Formation (calcareous mudstone) is present beneath the north of the site and immediately to the west. The Sherwood Sandstone Group is a red-brown sandstone, and the Roxby Formation is a reddish-brown mudstone and siltstone with subordinate sandstone (Ref 4).
Geological structures	Three southwest to northeast trending faults and one southeast to northwest trending fault are inferred to cross the Site.
BGS borehole records	There are two BGS borehole records within the Site and a further seven borehole records within 250 m. The borehole records indicate superficial deposits comprise variable layers of sand and clay up to a typical depth of 20 m. Bedrock recorded comprised sandstone over red marl in the south of the Site and layers of red marl and limestone in the north.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex D.3. The site lies within a Coal Mining Reporting area. There are four records of past underground coal mining on the site. Located at the Kellingley Colliery which mined the Silkstone and Top Beeston coal seams at depths between 514 m and 620 mbgl from 1983 and 1997. One claim for alleged coal mining subsidence was made in 1998 for a flood bank barrier to the southwest of the site. The risk of significant coal mining related subsidence effecting the Site is considered to be low.

Physical characteristics	
	No past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site.
Non-coal mining /minerals	One unspecified ground working is identified in the Groundsure Report in the north of the Site which was observed in the historical mapping between 1908 and 1958. A historical unspecified extraction pit was also recorded during the same time period in the south of the Site. Other historical ground workings identified include several ponds to the south of the Site. No current extraction activities have been identified within the Site or surrounding area.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex D.4.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Site is designated as an Unproductive aquifer. The Breighton Sand Formation and Alluvium beneath the Site is designated as a Secondary A aquifer. The Sherwood Sandstone bedrock is designated as a Principal aquifer and the Roxby Formation is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ and there are none within 250m of the Site.
Licensed groundwater abstractions	There is one active licensed groundwater abstraction located within the centre of the Site, but outside the red boundary. The licence is held by Hartleys Farming Ltd, licence number 2/27/18/151/R01, with a daily abstraction volume of 1,295 m^3 and annual abstraction volume 54,623 m^3. Groundwater is abstracted for spray irrigation use. There are no active licensed abstractions within 250 m of the Site.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions on the Site or within 250 m.
Groundwater Water Framework Directive (WFD) bodies	Two WFD groundwater bodies are located beneath the site (Ref 26): Aire & Don Sherwood Sandstone groundwater body, water body ID GB40401G701000, majority of the Site area. The overall rating is classified as poor. Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900, beneath northwest corner of the Site. The overall rating is classified as good.
Hydrology	
Surface Water Courses and Drainage	Maspin Moor Drain flows west to east along the northern Site boundary where it becomes Mearley Drain which flows to the south along the eastern Site boundary. Mearley Drain becomes The Fleet in the south of the Site and flows towards the southeast discharging into the River Aire approximately 700 m to the east. Multiple drainage ditches are present within the Site and surrounding area.

Physical characteristics	
	The River Aire flows west to east approximately 500 m to the south of Site.
Surface Water (WFD) bodies	One WFD surface water body is located on the site (Ref 26): The Fleet from Source to River Aire surface water body, water body ID GB104027062740. The overall rating is classified as moderate.
Licensed surface water abstractions	There is one active licensed surface water abstraction within the Site as follows: In the north of the Site for spray irrigation use which is licensed to H Hey and Sons, licence number NE/027/0018/008. Water is abstracted from Maspin Moor Drain, the licence has a daily abstraction volume of 800 m^3 and annual abstraction volume 15,000 m^3. There is one active surface water abstractions within 250 m of the Site for spray irrigation use.

8.5 Summary of environmental setting and regulated activities

8.5.1 The environmental setting and regulated activities at Solar Development Site 4 and surrounding area is summarised in Table 8-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 26) provided in Annex D.1 and other sources of information summarised in Section 1.4.

Table 8-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within the Site. There is one active licensed discharge consent 250 m to the southwest of the Site. This is for sewage discharges – final/treated effluent (not water company) belonging to a residential property on Roe Lane, for discharge to a tributary of the River Aire.
Pollution incident register	One pollution incident is recorded approximately 230 m to the southeast of the Site. The incident occurred in 2007, involving agricultural materials and wastes of slurry, which was deemed to have a significant impact on water (category 2), minor impact on land (category 3) and no impact on air (category 4) (Ref 26).
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Site.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	None within 250 m of the Site.

Environmental Setting	
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Site. These comprise the storing, disposing of and using of waste associated with farming activities.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Site is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The Site is located in a NVZ.

8.6 Industrial land use

8.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within Solar Development Site 4. In the surrounding area industrial uses recorded by Groundsure include two water pumping stations 10 m and 100 m to the southeast, an electricity substation 22 m to the west, a vehicle cleaning service 24 m to the southwest and glass fibre service 32 m to the southwest.

9 Solar Development Site 4 Conceptual Site Model and Preliminary Risk Assessment

9.1 Approach

9.1.1 The approach to this PTA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

9.2 Conceptual site model

9.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

9.2.2 On Site:

1) Potential localised Made Ground associated with the farmland and potential backfilled pits;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site;

Off-Site:

4) Made Ground associated with flood defences along the River Aire to the south of the Site;
5) Potential localised Made Ground from old pits (potentially backfilled) located adjacent the southwest Site;
6) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads; and
7) Woodyfuel Pellet and Chip Biomass to the west.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;

3) Residential neighbours (existing farm dwellings);
4) Surface watercourses including streams and ponds on and adjacent to Site;
5) Groundwater in the underlying Secondary A superficial aquifers as well as Principal and Secondary B bedrock aquifers;
6) Licensed groundwater and surface water abstractions within the Site for spray irrigation;
7) Below ground infrastructure including solar panels, conversion units, buried concrete and utilities including cables; and
8) Public access via footpaths and access tracks.

9.3 Preliminary Risk Assessment

9.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 4 has been produced. The qualitative assessment of the possible linkages is provided in Table 9-1.

9.3.2 The level of risk is determined based on the current condition of Solar Development Site 4 (i.e. the effects of mitigation measures are not included).

9.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 9-1 Potential sources, pathways and receptors Solar Development Site 4

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the farmland and potential backfilled pits	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**]. Operational areas of the Site will be fenced off to prevent public access off footpaths crossing the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Medium	Unlikely	Low	Surface watercourses are present on and adjacent to the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		On-site groundwater and surface water abstractions	Medium	Unlikely	Low	Licensed water abstractions are present within the Site. The presence of significant sources of contamination associated with agricultural land is likely to be isolated and minor and unlikely to pose a significant risk to abstractions. It is possible that the existing abstractions may cease to operate with the Proposed Development During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made Ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress of	Below ground infrastructure including buried	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	hazardous ground gas	concrete and utilities				However, made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Dermal contact, ingestion or inhalation	Public access via footpaths and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on and adjacent to the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		On-site groundwater and	Medium	Unlikely	Low	The potential sources are considered to be isolated and minor and unlikely to pose a significant risk to abstractions.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		surface water abstractions				During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant superficial cover above the

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on and adjacent to the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
Off-site made ground associated with river embankments and possible backfilled pits	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the river embankments and pits is anticipated to be of limited extent and low gas generation potential.
Off-site Woodeyfuel Pellet and Chip Biomass Plant	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the biomass plant is anticipated to be of limited extent and low gas generation potential which would limit the potential for migration of hazardous ground gases to the edges of the Site and as such it is unlikely a significant risk would be posed to the development.

9.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

9.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

9.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

9.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

9.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Section 7 of Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

9.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at Solar Development Site 4.

9.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

9.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

9.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

9.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

9.5 Preliminary Risk Assessment conclusions

9.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses or possible infilled ground such as former pits or substations and fuel tanks.

9.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

10 Solar Development Site 6 site information

10.1 Introduction

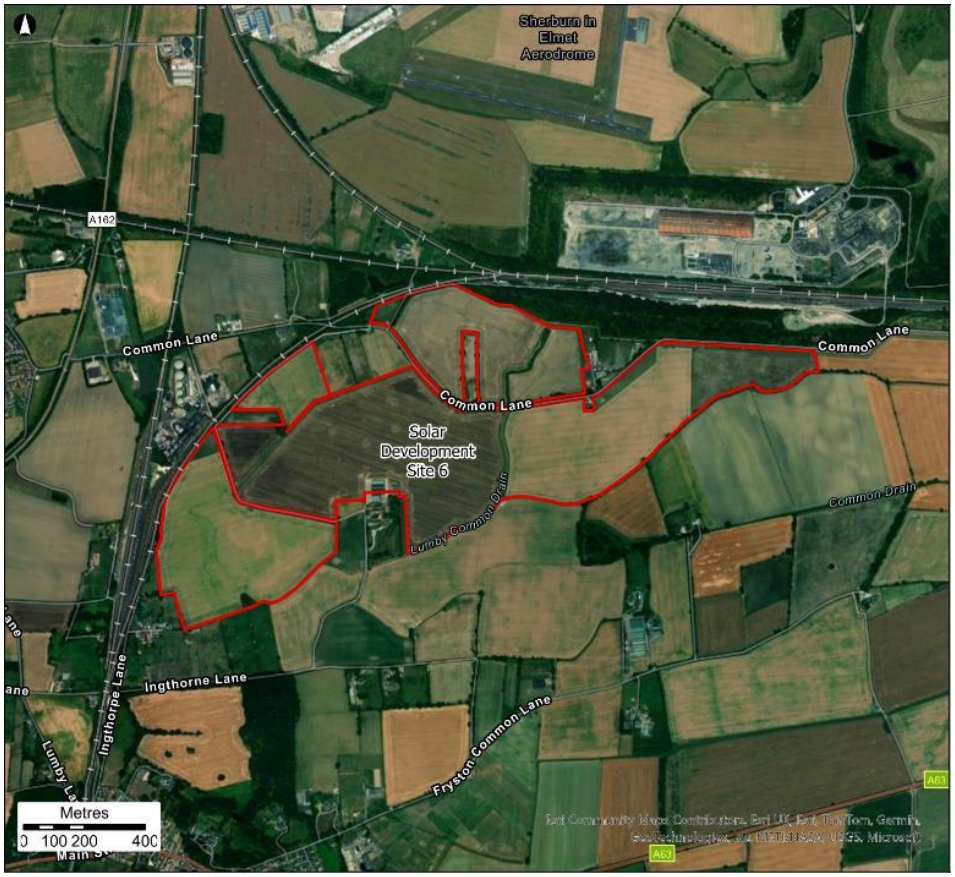
10.1.1 Desk study information relating to Solar Development Site 6 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex E.

10.1.2 It should be noted that the site boundary covered by the Groundsure reports includes Solar Development Site 7. The boundary of Solar Development Site 6 shown on maps within the Groundsure reports differs from the current ES Assessment Area as this was adjusted following the data purchase. However, the data included in the Groundsure report covers the current ES Order Limits and surroundings.

10.2 Site land location and description

10.2.1 The Site location and description of Solar Development Site 6 is summarised in Table 10-1.

Table 10-1 Site location and description

Site location and description	
Site Location	Land approximately 500 m to the northeast of the village of Monk Fryston and 540 m east of the village of South Milford, North Yorkshire. NGR 451505 431244. The Site covers an area of approximately 98.28 ha. 

Site location and description	
Site Description	The Site comprises two land parcels to the north and south of Common Lane which runs west to east through the Site. The site consists of a series of agricultural fields separated by hedgerows, occasional trees and land drains. Farm dwellings at Woodhouse Farm are present in the centre of the Site. The Site is crossed by Turpin Lane in the southwest and a rail line runs along the west and northwest site boundary. Several overhead power lines cross the Site. Milford Common Drain and Lumby Common Drain flow through the south of the Site and Low Common Drain flows through the north of the Site.
Topography	The topography of the site is relatively flat at an elevation of approximately 8 m OD.
Adjacent and surrounding land use	The surrounding area is predominantly agricultural land with nearby farm dwellings and woodland areas. Milford Grange and Milford Lodge farms are located adjacent to the southern and northern Site boundaries respectively. There is an area of woodland to the north of the Site, beyond which is the railway and beyond that the site of the former Gascoigne Wood colliery, approximately 200 m to the north. The colliery site has largely been cleared with evidence of hardstanding remaining on aerial images, part of the site is occupied by Gascoigne Wood Power Plant. Several ponds are located approximately 50 m northwest which are understood to be Gascoigne Wood Fishery. The Maltings Organic Treatment Ltd recycling centre is located 55 m to the northwest. Woodhaven Boarding Kennels and Cattery is located 180 m to the northwest.

10.3 Site history

10.3.1 Historical OS maps of the Site and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex E.2.

10.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Site and surrounding area is presented in Table 10-2.

Table 10-2 Summary of site history

Map date	On Site	Off-Site
1850	Site predominantly undeveloped agricultural land comprising several fields with land drains and small areas of woodland. A pond is located in House Wood to the northeast of the Site. Common Lane runs through the north of the Site	Surrounding land predominantly agricultural use. Many of the existing farm dwellings are present adjacent to the Site, including Milford Grange to the south and Milford Lodge to the north. Railway tracks run adjacent to the west and northwest site boundary are present to the north, west and northwest of the Site.

Map date	On Site	Off-Site
		Several small pits are present to the west and northwest of the Site. Turpin Lane runs adjacent to the southwest boundary of the Site.
1891-1892	House Wood and the pond located in the northeast of the Site are no longer present.	New roadways, pits, tanks and structures associated with a Malt Kiln is present at Milford East Junction 30 m to the west of the Site. A works with tanks, railway tracks, pits and structures are present at Milford Junction 70 m to the southwest of the Site.
1908	No change	Filter beds and reservoir present at the Malthouses (Malt Kiln) to the west of the Site.
1950	No change	Gascoigne Wood railway sidings to the north of the Site has expanded south towards the Site and are adjacent to the Site boundary.
1967	Ragged Shaw woodland is no longer present in the northeast of the Site.	Malt Kiln to the west of the Site has expanded and relabelled as a Works. New filter beds are present at the Works to the west of the Site.
1986	Milford Common Drain in the southwest of the Site has been culverted.	A new building is present adjacent to the northeast of the Site at Milford Lodge Works buildings at Milford Junction no longer present.
1994	No change	Further expansion of infrastructure within The Maltings to the west of the Site. New drains are present to the north of the Site adjacent to Common Lane. Rail sidings at Gascoigne Wood adjacent to north of the Site removed.
1995	No change	No change
2002	No change	No change
2013	Farm buildings at Milford Grange are now present in the south of the Site.	No change
2017	No change	Amur AD Plant is present adjacent to The Maltings to the west of the Site with five tanks and a material handling yard.
2024	No change	A new material lay down area and buildings are present at Amur AD Plant to the northwest of the Site. New farm buildings are present adjacent to the north of the Site at Milford Lodge.

10.3.3 The maps show that Solar Development Site 6 has been agricultural land since the earliest available mapping in 1850. Ponds are present to the west of the Site, where previous pits may have been located. Gascoigne Wood railway sidings were present adjacent to the north of the Site from 1950 until 1994.

10.4 Physical setting

10.4.1 The physical setting of Solar Development Site 6 is summarised in Table 10-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 28 and Ref 29) and Coal Mining Report (Ref 30) provided in Annex E and other sources of information summarised in Section 1.4.

Table 10-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex E.1) records two localised areas of Made Ground in the west of the site identified as “Artificial Deposits” and “Worked Ground -Void”. Made Ground is also mapped along the western site boundary and to the northwest associated with the rail line and to the north in the area of the former colliery. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities, access tracks and footpaths may be present within the Site.
Superficial geology	The BGS map shows superficial deposits are present across the entire Site comprising: Hemingbrough Glaciolacustrine Formation (silty clay) beneath the majority of the site; Alluvium (clay, silt, sand and gravel) along the watercourse in the north of the site; and Peat (high organic matter soils) is mapped on the southwestern site boundary and extends to the south of the site.
Bedrock	The BGS map shows bedrock beneath the Site comprises the Roxby Formation (calcareous mudstone) beneath the east of the Site and the Brotherton Formation (dolomitic limestone) beneath the west of the Site. The Roxby Formation is a reddish-brown mudstone and siltstone with subordinate sandstone and the Brotherton Formation comprises a grey dolomitic limestone with abundant Calcinema fossils (Ref 4).
Geological structures	No faulting is present on the site; however, two normal faults are inferred immediately adjacent to the north and south of the site, both faults are downthrown to the southeast.
BGS borehole records	There are six BGS borehole records within the Site and a further 12 non-confidential borehole records within 250 m.

Physical characteristics	
	The borehole records indicate superficial deposits beneath the Site comprise variable layers of sand and clay to a depth of 14 m. Where encountered limestone and marl bedrock extends to a depth of approximately 120 m, with Coal Measures beneath.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The majority of the Site is located in an area where <1% of properties would exceed the Radon Action Level. A small area in the south of the site is in area where between 1% and 3% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex E.3. The site lies within a Coal Mining Reporting area. There are six records of past underground coal mining beneath the Site and surrounding area associated with Peckfield Colliery and an unnamed colliery. Both collieries mined the Top Beeston coal seam at depths between 310 m and 350 m depth from 1976 until 1980. No past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site. The closest mine entries are located 460 m to the northeast. As the mine workings beneath the Site are at depth the risk from coal mining is considered to be low. Gascoigne Wood Mine was present approximately 200 m to the north of the Site from 1978 until 2004. The mine comprised two drifts and received and processed coal from five local mines, processed coal was transport by rail from the Gascoigne Wood sidings and spoil was tipped in the surrounding area (Ref 31).
Non-coal mining /minerals	No surface ground workings or evidence of other mineral extraction is recorded within the Site in the Groundsure Report. A number of historical surface workings are identified in the Groundsure report within 250 m of the Site, these typically comprise several ponds and water bodies present in the early 1900s to 1990s to the north and west of the site and a filter bed to the west in 1908. No current extraction activities have been identified within the Site or surrounding area.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex E.4.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation and Peat deposits beneath the Site are designated as an Unproductive aquifer. The Alluvium in the north of the Site is designated as a Secondary A aquifer. The Brotherton Formation bedrock is designated as a Principal aquifer and the Roxby Formation is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The majority of the Site is not located within a groundwater SPZ. A Zone 1 (inner catchment) SPZ overlaps the northwest site boundary extending into the Site.

Physical characteristics	
	There is on one SOZ within 250m, a Zone 1 SPZ located 70 m to the northwest.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within the Site. There are three active abstractions within 250 m of the Site as follows: CARRIE Borehole 1, licence number 2/27/24/118, located 42 m to the west with a daily abstraction volume of 374 m^3 and annual abstraction volume 136,380 m^3. Groundwater abstracted is for general use relating to secondary category (medium loss). CARRIE Borehole 2, licence number 2/27/24/118, located 121 m to the west with a daily abstraction volume of 374 m^3 and annual abstraction volume 136,380 m^3. Groundwater abstracted is for general use relating to secondary category (medium loss). CARRIE, Borehole 3, licence number 2/27/24/118, located 114 m to the west with a daily abstraction volume of 374 m3 and annual abstraction volume 136,380 m3. Groundwater abstracted is for general use relating to secondary category (medium loss).
Unlicensed groundwater abstractions	There are no unlicensed abstractions located within the Site. There is one unlicensed abstraction within 250m of the Site, located approximately 20m to the northeast on Common Lane (opposite Millford Lodge Farm).
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the site (Ref 29): • Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Low Common Drain flows west to east through the north of the Site. Milford Common Drain in the west of Site and Lumby Common Drain in the centre of the Site flow towards the north and appear to discharge into Low Common Drain. Multiple drainage channels are present within the surrounding area including Parish Croft Drain 20 m to the east and Ingthorns Drain 130 m to the south.
Surface Water (WFD) bodies	The Site is located within one WFD surface water body catchment is located on the site (Ref 29): The Selby Dam from Conf. Fox Dike and Carr Dike to Ousewater body ID GB104027063620. The overall rating is classified as moderate.
Licensed surface water abstractions	There is one active licensed surface water abstraction within the Site as follows: In the northwest for spray irrigation use which is licensed to R T Batty & Son, licence number 2/27/24/017. Water is abstracted from Lumby Common Drain and Milford Common Drain, the licence has a daily abstraction volume of 291 m^3 and annual abstraction volume 5,818 m^3. There are no active surface water abstractions within 250 m of the Site.

10.5 Summary of environmental setting and regulated activities

10.5.1 The environmental setting and regulated activities at Solar Development Site 6 and surrounding area is summarised in Table 10-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 29) provided in Annex E and other sources of information summarised in Section 1.4.

Table 10-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within the Site. There is one active licensed discharge consent within 250 m of the Site. This is for trade discharges – site drainage (contaminated surface waters, not waste site) belonging to a Gascoigne Wood Mine, for discharge to Parish Crofts Drain 240 m east of the Site.
Pollution incident register	One pollution incident is recorded within the Site. The incident occurred in 2012, the type of pollutant is not identified, although it was deemed to have a significant impact on water (category 2) and no impact on air or land (category 4) (Ref 29). A further two incidents are recorded within 250 m of the Site: 40 m southwest in 2001, pollutant type not identified resulted in a minor impact to water (category 3) and no impact (category 4) air and land; 77 m west in 2023, release of atmospheric pollutants resulted in a significant impact to air (category 2) and no impact (category 4) water and land.
Licensed industrial activities	There are no licensed industrial activities within the Site. There are seven current environmental permits held by The Maltings Organic Treatment Ltd located 55 m to the west of the Site. These relate to the disposal and recovery of non-hazardous waste involving biological treatment and treatment of wastewater. One environmental permit is held by AB Agri Ltd located 155 m west of the Site for recovery and disposal of non-hazardous waste involving biological treatment.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	None within 250 m of the Site. There are three waste licences relating to the Maltings Organic Treatment facility 55 m to the west. The waste licences are for physical treatment and composting facilities (licence numbers MAL003, 659025 and MAL035 (Ref 29).
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the site. These comprise the storing, disposing of and using of waste

Environmental Setting	
	associated with farming activities and using waste in construction at the Maltings Organic Treatment site.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the site is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The site is located in a NVZ.

10.6 Industrial land use

10.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within Solar Development Site 6. In the surrounding area industrial uses recorded by Groundsure include The Maltings Organic Treatment site 55 m to the west and an electricity substation 97 m to the west. Recent industrial works include Amur AD Plant immediately adjacent to the west of the Site. Gascoigne Wood railway sidings were located approximately 120 m to the north of Solar Development Site 6.

11 Solar Development Site 6 Conceptual Site Model and Preliminary Risk Assessment

11.1 Approach

11.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

11.2 Conceptual site model

11.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

11.2.2 On Site:

1) Potential localised Made Ground associated with the farmland and possible infilled pond/pit;
2) Possible small-scale leaks of fuels and oils associated with agricultural use
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site;

Off-Site:

4) Potential made ground associated with rail lines and former colliery and old pits (potentially backfilled) adjacent to the west and north of the Site;
5) Malting Organic Treatment Recycling Centre and Amur AD Plant Biological Waste Treatment 55 m to the west; and
6) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use, roads, railway tracks and industrial land uses.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);

4) Surface watercourses including streams and ponds on and adjacent to Site;
5) Groundwater in the underlying Secondary superficial aquifer and Principal and Secondary bedrock aquifers, SPZ1 in the northwest;
6) Licensed groundwater abstractions to the west for general use and on-site surface water abstraction for spray irrigation and unlicensed abstraction to the northeast;
7) Below ground infrastructure including buried concrete and utilities including cables; and
8) Public access via access tracks.

11.3 Preliminary Risk Assessment

11.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 6 has been produced. The qualitative assessment of the possible linkages is provided in Table 11-1.

11.3.2 The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included).

11.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 11-1 Potential sources, pathways and receptors Solar Development Site 6

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the farmland and possible backfilled pond/pit	Dermal contact, ingestion or inhalation of soil or dust	Public access via access tracks/roads	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**]. Operational areas of the Site will be fenced off to prevent public access off footpaths crossing the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water
		Licensed and unlicensed water abstractions	Medium	Unlikely	Low	Licensed and unlicensed water abstractions are present within the site and surrounding area. Based on the information reviewed potential sources are considered to be isolated and minor and unlikely to present a significant risk to abstractions. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground is anticipated to be of limited extent and low gas generation potential.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Dermal contact, ingestion or inhalation	Public access via access tracks/roads	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Medium	Low	Moderate/ Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Significant sources of hydrocarbons to cause pollution are considered very unlikely. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Licensed and unlicensed water abstractions	Medium	Unlikely	Low	The potential sources are considered to be isolated and minor. A contaminant linkage is not considered likely with the source likely to be localised.
	Direct contact	Below ground infrastructure including buried	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		concrete and utilities				Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via access tracks/roads	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
		Licensed water abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Possible small-scale spills/leaks of fuels, chemicals and oils associated with the off-site industrial land uses	Leaching and migration	Principal Aquifer	Mild	Low	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential off-site sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Site which could be susceptible to pollution should an off-site incident occur. However, based on information reviewed the potential sources are considered to be isolated due to the distance from surface watercourses, and is therefore unlikely to present a risk to surface water on the Site.
Off-site made ground associated rail lines, former colliery and old pits (potentially backfilled)	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the rail lines, former colliery and old pits is anticipated to be of low gas generation potential.
Organic Treatment Recycling Centre and Biological Waste Treatment Plant off-site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the plant is anticipated to be of limited extent and low gas generation potential.

11.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

11.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

11.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

11.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

11.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

11.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Site.

11.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

11.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

11.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

11.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

11.5 Preliminary Risk Assessment conclusions

11.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses. There is potential for a moderate/low risk to Secondary and Principal aquifers if Made Ground or pollution incidents are encountered and the Proposed Development presents a potential pathway

11.5.2 While the risk is moderate/low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination is recommended to be developed for the construction works as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].

12 Solar Development Site 7 site information

12.1 Introduction

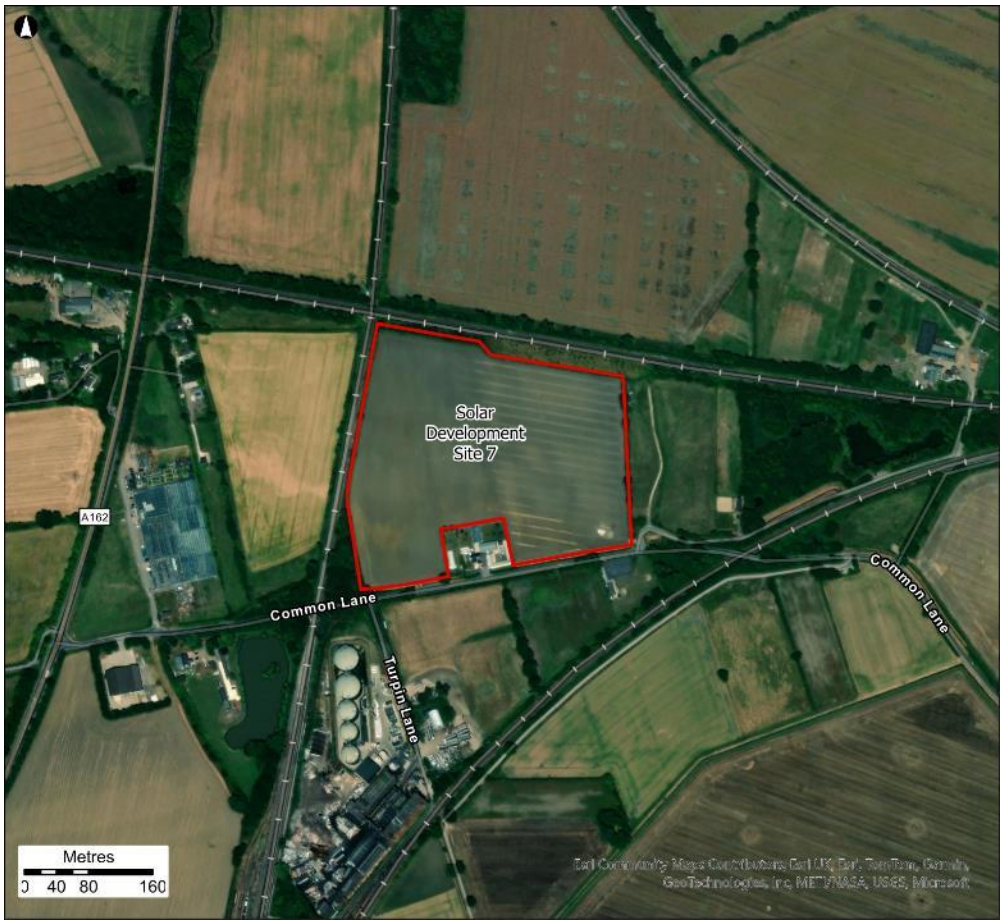
12.1.1 Desk study information relating to Solar Development Site 7 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex E.

12.1.2 It should be noted that the site boundary covered by the Groundsure reports includes Solar Development Site 6.

12.2 Site land location and description

12.2.1 The Site location and description of Solar Development Site 7 is summarised in Table 12-1.

Table 12-1 Site location and description

Site location and description	
Site Location	Land approximately 510 m to the east of the village of South Milford, North Yorkshire. NGR 450682 431705. The Site covers an area of approximately 8.7 ha. 
Site Description	The Site comprises an agricultural field bordered by hedgerows and occasional trees.

Site location and description	
	A kennels and cattery, woodland areas and railway tracks are immediately adjacent to the site boundary. The surrounding area is predominantly rural agricultural land.
Topography	The topography of the site is relatively flat at an elevation of approximately 8 m OD.
Adjacent and surrounding land use	Common Lane runs adjacent to the southern boundary of the site and rail lines run adjacent to the north and west site boundaries. An unnamed drain runs along the eastern Site boundary. The immediate surrounding area is predominantly agricultural land. Woodhaven Boarding Kennels and Cattery is located adjacent to the south of the Site. A rail line is present 73 m to the southwest. A garden centre is located 150 m to the west. Several ponds are located approximately 150 m east which are understood to be Gascoigne Wood Fishery. The Maltings Organic Treatment Ltd recycling centre is located 70 m to the southwest.

12.3 Site history

12.3.1 Historical OS maps of the Site and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex E.2.

12.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Site and surrounding area is presented in Table 12-2.

Table 12-2 Summary of site history

Map date	On Site	Off-Site
1850	Site comprises of undeveloped agricultural land.	Railway tracks are immediately adjacent to the north and west, a road to the south and drainage channel to the east of the Site. Pits are present adjacent to the southeast and southwest corners of the Site.
1891	No change	A malt kiln and associated ponds and tanks is present at Milford East Junction 240 m to the southwest of the Site.
1908	No change	Filter beds and reservoir now present at the Malt Kiln to the southwest of the Site.
1950	No change	New buildings are present at the Malt Kiln to the southwest of the Site. New buildings are present to the south of the Site, currently labelled “Woodhaven Boarding Kennels & Cattery”.
1961 – 1967	No change	The pits to the southeast and southwest corners of the Site now labelled as ponds. A well is present at Wood Haven adjacent to the south of the Site. The Malt Kiln to the southwest of the Site has expanded and relabelled as a works and three ponds are present. A sewage works is present 240 m to the west of the Site.
1984	No change	Sewage works to west is no longer present.

Map date	On Site	Off-Site
1994	No change	The ponds adjacent to the southwest of the Site are no longer present. The Maltings to the southwest of the Site have been redeveloped and expanded.
1995	No change	No change
2002	No change	Garden centre constructed 180 m to the west of the Site
2017	No change	Expansion of Amur AD Plant 70 m to the southwest of the Site, including tanks and material handling yard to the east of Turpin Lane.
2024	No change	Amur AD Plant stock and material handling yard has expanded with new buildings added to the south of the Site.

12.3.3 The earliest OS historical mapping from the 1850s shows the Order Limits of Solar Development Site 7 and surrounding area comprised undeveloped agricultural land. Rail lines have been present adjacent to the west and north of the Site since the 1850s. The land 70 m to the southwest of Solar Development Site 7 has developed for use as a waste recycling and treatment facility.

12.3.4 The site has continued to be used for agricultural land to present day.

12.4 Physical setting

12.4.1 The physical setting of Solar Development Site 7 is summarised in Table 12-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 28 and Ref 29) and Coal Mining Report (Ref 30) provided in Annex E and other sources of information summarised in Section 1.4.

Table 12-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex E.1) does not record any mapped Made Ground within the Site. However, Made Ground is mapped along the western and northern site boundary associated with the rail line and to the south of the site associated with the Kennel site. An area of disturbed ground is present on the southwest boundary of the Site. Made ground is also mapped along the rail line to the southwest. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Site.
Superficial geology	The BGS map shows superficial deposits are present across the entire Site comprising the Hemingbrough Glaciolacustrine Formation (silty clay).
Bedrock	The BGS map shows bedrock beneath the Site comprises the Brotherton Formation (dolomitic limestone). The Brotherton Formation comprises a grey dolomitic limestone with abundant Calcinema fossils (Ref 4).
Geological structures	No faulting is present on the site; however, one southwest to northeast trending inferred fault is present immediately to the north.
BGS borehole records	There is one BGS borehole record within the Site and a further 14 non-confidential borehole records within 250 m. The borehole records indicate superficial deposits beneath the Site comprise variable layers of sand and clay to a depth of 12 to 16 m. Where encountered limestone and marl bedrock extends to a depth of approximately 120 m, with Coal Measures beneath.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex E.3. The site lies within a Coal Mining Reporting area. There are six records of past underground coal mining beneath the Site and surrounding area associated with Peckfield Colliery and an unnamed colliery. Both collieries mined the Top Beeston coal seam at depths between 310 m and 350 m depth from 1976 until 1980 No past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site. As the mine workings beneath the Site are at depth the risk from coal mining is considered to be low.
Non-coal mining /minerals	No surface ground workings or evidence of other mineral extraction is recorded within the Site in the Groundsure Report. A number of historical surface workings are identified in the Groundsure report within 250 m of the Site, these typically comprise several ponds and water bodies present in the early 1900s to 1990s to the southeast and

Physical characteristics	
	southwest of the Site and a sewage works 230 m to the west in 1908 to 1950. No current extraction activities have been identified within the Site or surrounding area.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex E.4.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Site is designated as an Unproductive aquifer. The Brotherton Formation bedrock is designated as a Principal aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ. There are two SPZs within 250m, both are Zone 1 (inner catchment) SPZs located 100 m and 230 m to the southwest.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within the Site. There is one active abstraction within 250 m of the Site as follows: CARRIE Borehole 2, licence number 2/27/24/118, located 121 m to the west with a daily abstraction volume of 374 m^3 and annual abstraction volume 136,380 m^3. Groundwater abstracted is for general use relating to secondary category (medium loss).
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions located within the Site. There is one active unlicensed abstraction within 250 m of the Site located approximately 240m to the southwest at Common Lane.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the site (Ref 29): Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Two unnamed drains are present immediately to the east of the site. Several fishing ponds are present 150 m to the east.
Surface Water (WFD) bodies	The Site is located within one WFD surface water body catchment is located on the site (Ref 29): The Selby Dam from Conf. Fox Dike and Carr Dike to Ousewater body ID GB104027063620. The overall rating is classified as moderate.
Licensed surface water abstractions	There are no active licensed surface water abstraction within the Site or within 250 m.

12.5 Summary of environmental setting and regulated activities

12.5.1 The environmental setting and regulated activities at Solar Development Site 7 and surrounding area is summarised in Table 12-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 29) provided in Annex E.1 and other sources of information summarised in Section 1.4.

Table 12-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within the Site or within 250 m.
Pollution incident register	No pollution incidents are recorded within the Site (Ref 29). A further two incidents are recorded within 250 m of the Site: 170 m west in 2001, release of crude sewage resulted in a minor impact to water (category 3) and no impact (category 4) to air and land; and 186 m west in 2003, release of crude sewage resulted in a minor impact to water (category 3) and no impact (category 4) to air and land.
Licensed industrial activities	There are no licensed industrial activities within the Site. There are eight current environmental permits held by The Maltings Organic Treatment Ltd located 70 m to the southwest of the Site. These relate to the disposal and recovery of non-hazardous waste involving biological treatment and treatment of wastewater. Two environmental permit is held by AB Agri Ltd located 160 m southwest of the Site for recovery and disposal of non-hazardous waste involving biological treatment.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	None within 250 m of the Site. There are three waste licences relating to the Maltings Organic Treatment facility 70 m to the southwest. The waste licences are for physical treatment and compositing facilities (licence numbers MAL003, 659025 and MAL035 (Ref 29).
Waste exemptions	Several active waste exemptions sites are located within 250 m of the site. These comprise the storing, disposing of and using of waste associated with farming activities and using waste in construction at the Maltings Organic Treatment site.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.

Environmental Setting	
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the site is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The site is located in a NVZ.

12.6 Industrial land use

12.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within Solar Development Site 7. In the surrounding area industrial uses recorded by Groundsure include Amur AD Plant and The Maltings Organic Treatment site 70 m to the southwest of the Site. Industrial land uses associated with the railway sidings is recorded to the north and west of the Site.

13 Solar Development Site 7 Conceptual Site Model and Preliminary Risk Assessment

13.1 Approach

13.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

13.2 Conceptual site model

13.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

13.2.2 On Site:

1) Potential localised Made Ground associated with the farmland;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site;

Off-Site:

4) Potential Made Ground associated with rail lines and old ponds/pits (potentially backfilled) adjacent to the north, west and southeast of the Site;
5) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads.
6) Malting Organic Treatment Recycling Centre and Amur AD Plant Biological Waste Treatment 70 m to the southwest; and
7) Former sewage works 230 m to the west.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);

4) Surface watercourses including streams and ponds adjacent to Site;
5) Groundwater in the underlying Principal bedrock aquifer, with SPZ1 assigned located 100 m and 230 m to southeast;
6) Licensed groundwater abstraction 120 m to the south for general use and spray irrigation and unlicensed groundwater abstraction 240m to the southwest; and
7) Below ground infrastructure including buried concrete and utilities including cables.

13.3 Preliminary Risk Assessment

13.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 7 has been produced. The qualitative assessment of the possible linkages is provided in Table 13-1.

13.3.2 The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included).

13.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 13-1 Potential sources, pathways and receptors Solar Development Site 7

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the farmland	Leaching and migration	Principal Aquifer, SPZ1 (offsite)	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant low -permeability superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**]. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses present adjacent to the Site could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Licensed and unlicensed groundwater abstractions	Medium	Unlikely	Low	Based on the information reviewed potential sources are considered to be isolated and minor and unlikely to present a significant risk to the off-site abstractions. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Leaching and migration	Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present adjacent to the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The bedrock Principal aquifer is overlain by low permeability superficial deposits which would limit significant downward migration. Significant sources of hydrocarbons to cause pollution are considered very unlikely. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present adjacent to the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
		Licensed and unlicensed groundwater abstractions	Medium	Unlikely	Low	The potential sources are considered to be isolated and minor. Given the distance from Site the likelihood of risk is unlikely. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities.	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Leaching and migration	Principal Aquifer, SPZ1	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present adjacent to the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and pesticides could reach the aquifer and further migrate. There is significant low permeability superficial cover above the

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
		Licensed and unlicensed groundwater abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low. Given the distance from Site the likelihood of risk is unlikely. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Off-site made ground associated with rail lines and old pits (potentially backfilled)	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with rail lines and old pits is anticipated to be of low gas generation potential.
Organic Treatment Recycling Centre and Biological	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the plant is anticipated to be of limited extent and low gas generation potential.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Waste Treatment Plant off-site		concrete and utilities				
Former sewage works off-site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the former sewage is anticipated to be of limited extent and low gas generation potential. Given the distance from sit this would limit the potential for migration of hazardous ground gases to the edges of the Site and as such it is unlikely a significant risk would be posed to the development.

13.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

13.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

13.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

13.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

13.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

13.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at Solar Development Site 7.

13.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

13.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

13.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

13.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

13.5 Preliminary Risk Assessment conclusions

13.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses or possible infilled ground such as former pits.

13.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

14 Solar Development Site 8 site information

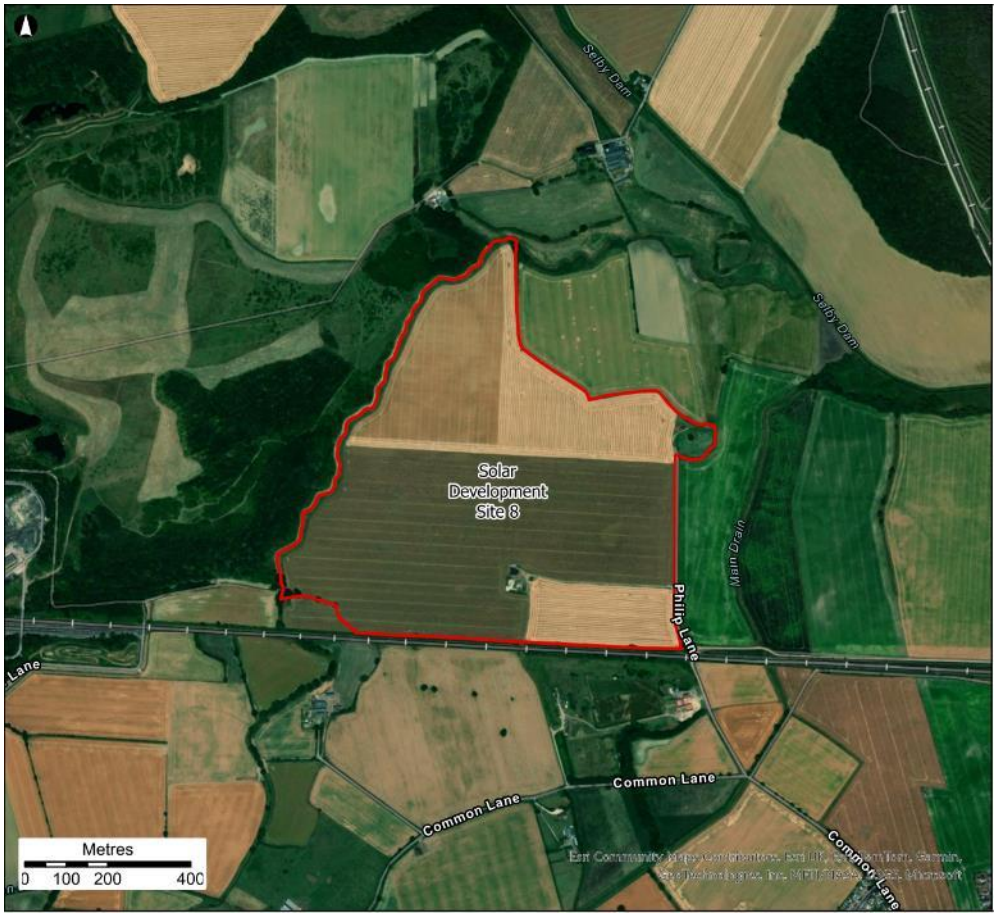
14.1 Introduction

14.1.1 Desk study information relating to Solar Development Site 8 is described in this section. Relevant Groundsure reports, historical maps, site photographs and coal mining reports are provided in Annex F.

14.2 Site land location and description

14.2.1 The Site location and description of Solar Development Site 8 is summarised in Table 14-1.

Table 14-1 Site location and description

Site location and description	
Site Location	Land approximately 700 m to the northwest of the village of Hambleton, North Yorkshire. NGR 453978 431948. The Site covers an area of approximately 60.0 ha. 
Site Description	The Site comprises an agricultural field bordered by hedgerows and occasional trees. An area in the south of the Site appears to be used for temporary agricultural materials storage and there is remnant hardstanding in this area from a former building, this is accessed via a farm access track off

Site location and description	
	Phillip Lane which runs along the eastern Site boundary. An unnamed land drain runs along the eastern boundary adjacent to Phillip Lane.
Topography	The topography of the site is relatively flat at an elevation of approximately 8 m OD.
Adjacent and surrounding land use	Phillip Lane runs adjacent to the eastern boundary of the site, and a rail line runs adjacent to southern boundary. Habholme Dike flows along the western boundary of the Site. The surrounding area is predominantly agricultural land. An area of woodland is present to the west of the Site. Several overhead power lines run across the Site. 40 m to the south are offices operated by a "Cube Yorkshire" a demolition contractor.

14.3 Site history

14.3.1 Historical OS maps of Solar Development Site 8 and wider environs were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex F.2.

14.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within Solar Development Site 8 and surrounding area is presented in Table 14-2.

Table 14-2 Summary of site history

Map date	On Site	Off-Site
1850	Site predominantly undeveloped agricultural land comprising several fields. A farm dwelling known as "Ruddings" are present in the centre of the Site. Small ponds present in the centre and northwest of the Site.	Agricultural land uses surround the Site. A rail line runs adjacent to the southern Site boundary and Philip Lane is adjacent to the eastern Site boundary. Habholme Dike flows along the west and north boundary. A foot bridge and footpath run adjacent to the southwest corner of the Site. Farm dwellings of Melton Leys and Low Rest Park present to the north and Owlet Hall to the south
1890-92	Pond present adjacent to Ruddings buildings	No change
1908	No change	No change
1950	Pond in northwest of site no longer present	No change
1977-86	No change	No change
1994	Ruddings has been demolished, access track runs from southern and eastern site boundary towards site of the former buildings.	No change

Map date	On Site	Off-Site
2007	Evidence of Harding remaining on ground surface from former buildings	Evidence of construction works for linear utilities 90 m to the east. Construction Compound located 60 m to the southeast.
2013	No change	Utility construction works completed and land returned to agricultural use. Construction of a new building 40 m to the south, appear to be commercial space which is currently a demolition contractor.
2018	Area of hardstanding appears to be used for material laydown, assumed for agricultural land use.	No change
2024	No change	No change

14.3.3 The earliest OS historical mapping from the 1850s shows the Order Limits of Solar Development of Solar Development Site 8 and surrounding area comprised undeveloped agricultural land. A farm dwelling was present in the centre of the Site until the 1990s, with hard standing remaining and the area appearing to be recently used for materials storage associated with farming activities.

14.3.4 The site has continued to be used for agricultural land to present day.

14.4 Physical setting

14.4.1 The physical setting of Solar Development Site 8 is summarised in Table 14-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 32 and Ref 33) and Coal Mining Report (Ref 34) provided in Annex F and other sources of information summarised in Section 1.4.

Table 14-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex F.1) records localised areas of Made Ground within the Site. Three areas of infilled ground are recorded in the south of the Site and appear to relate to the site of the former building and former ponds. An area of Made Ground is also recorded in the northeast corner of the Site, its origin is unclear. Infilled ground is also identified on the northern site boundary. Made Ground is also mapped along the southern site boundary associated with the rail line.
Superficial geology	The BGS map shows superficial deposits are present across the entire Site comprising: Hemingbrough Glaciolacustrine Formation (silty clay) beneath the north and centre of the Site;

Physical characteristics	
	Breighton Sand Formation (sand) beneath the south and northeast corner of the Site; and Alluvium (clay, silt, sand and gravel) beneath the southwest corner and adjacent to the northern Site boundary.
Bedrock	The BGS map shows bedrock beneath the Site comprises the Sherwood Sandstone Group beneath the majority of the Site and the Roxby Formation (calcareous mudstone) beneath the west of the site. The Sherwood Sandstone stratum comprises red, yellow and brown sandstone with conglomeratic in the lower part with subordinate red mudstone and siltstone and the Roxby Formation comprises reddish-brown mudstone and siltstone with subordinate sandstone (Ref 4).
Geological structures	Two southwest to northeast trending faults are inferred to cross the centre of the Site. A southeast to northwest trending fault is inferred beneath the north of the Site.
BGS borehole records	There are no non-confidential BGS borehole records within the Site. Records for four non-confidential borehole records are available within 250 m. The borehole records indicate superficial deposits beneath the Site comprise variable layers of sand and clay to a depth of approximately 20 m. Where encountered limestone and marl bedrock (assumed to be Roxby Formation) extends to a depth of approximately 50 m with Coal Measures beneath.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Site is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	A Coal Mining Report for the Site is provided in Annex F.3. The site lies within a Coal Mining Reporting area. There are no records of past underground coal mining beneath the Site. No past or probable shallow mine workings are recorded beneath the Site. No mine entries or development high risk areas are present within 250 m of the Site.
Non-coal mining /minerals	No surface ground workings or evidence of other mineral extraction is recorded within the Site or within 250 m in the Groundsure Report. No current extraction activities have been identified within the Site or surrounding area.
Evidence of land contamination	No evidence of significant contamination was identified during the site walkover. Photographs of the Site are presented in Annex F.4.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Site is designated as an Unproductive aquifer. The Breighton Sand Formation and Alluvium is designated as a Secondary A aquifer.

Physical characteristics	
	The Sherwood Sandstone bedrock is designated as a Principal aquifer and the Roxby Formation is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Site is not located within a groundwater SPZ and there are none within 250m.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within the Site or within 250 m.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions located within the Site or within 250 m.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the site (Ref 33): Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40401G702400. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Habholme Dike flows towards the north along the western boundary of the Site. Parish Croft Drain discharges into Habholme Drain adjacent to the southwest boundary of the Site. A land drain runs south to north along Phillip Lane on the eastern site boundary this appears to discharge into Main Drain approximately 220 m to the east.
Surface Water (WFD) bodies	The Site is located within one WFD surface water body catchment is located on the site (Ref 29): The Selby Dam from Conf. Fox Dike and Carr Dike to Ousewater body ID GB104027063620. The overall rating is classified as moderate.
Licensed surface water abstractions	There are no active licensed surface water abstraction within the Site or within 250 m.

14.5 Summary of environmental setting and regulated activities

14.5.1 The environmental setting and regulated activities at Solar Development Site 8 and surrounding area is summarised in Table 14-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 33) provided in Annex F and other sources of information summarised in Section 1.4.

Table 14-4 Summary of other environmental information

Environmental Setting
Environment Agency records

Environmental Setting	
Discharge consents	There are no active licensed discharge consents within the Site or within 250 m.
Pollution incident register	No pollution incidents are recorded within the Site or within 250 m (Ref 33).
Licensed industrial activities	There are no licensed industrial activities within the Site or within 250 m.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Site.
Licensed waste sites	None within 250 m of the Site.
Waste exemptions	Five waste exemptions sites are located within the Site, which comprise the storing of waste associated with farming activities. A further three waste exemptions are located within 250 m of the site for using and treating waste relating to construction.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Site.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the site is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The site is located in a NVZ.

14.6 Industrial land use

14.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within Solar Development Site 8 or surrounding area.

15 Solar Development Site 8 Conceptual Site Model and Preliminary Risk Assessment

15.1 Approach

15.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

15.2 Conceptual site model

15.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

15.2.2 On Site:

1) Potential localised Made Ground associated with former farm building, farmland and potential backfilled ponds;
2) Possible small-scale leaks of fuels and oils associated with agricultural use;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Site.

Off-Site:

4) Potential Made Ground associated with rail lines to the south of the site; and
5) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use and roads.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater;
4) Direct contact with soils; and
5) Migration and ingress of hazardous ground gas.

Potential receptors

1) Construction workers and site neighbours during development;
2) Future site users (maintenance workers) of the Proposed Development;
3) Residential neighbours (existing farm dwellings);
4) Surface watercourses including streams adjacent to Site;

5) Groundwater in the underlying Secondary superficial aquifer and Principal and Secondary bedrock aquifers;

6) Below ground infrastructure including solar panels, conversion units, buried concrete and utilities including cables; and

7) Public access via access tracks.

15.3 Preliminary Risk Assessment

15.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present for the Proposed Development at Solar Development Site 8 has been produced. The qualitative assessment of the possible linkages is provided in Table 15-1.

15.3.2 The level of risk is determined based on the current condition of Solar Development Site 8 (i.e. the effects of mitigation measures are not included).

15.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

Table 15-1 Potential sources, pathways and receptors Solar Development Site 8

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground associated with the former farm building, farmland and potential backfilled ponds	Dermal contact, ingestion or inhalation of soil or dust	Public access via access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**]. Operational areas of the Site will be fenced off to prevent public access off footpaths crossing the Site.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Any pollutants could reach the aquifer quickly and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**]. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present adjacent to the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water
	Inhalation of gases or vapours	Residential neighbours	Medium	Unlikely	Low	Made ground is anticipated to be of limited extent and gas generation potential.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including, buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground is anticipated to be of limited extent and low gas generation potential.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Site	Dermal contact, ingestion or inhalation	Public access via access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Mild	Low	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. However, the potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present adjacent to the Site which could be susceptible to pollution should an incident occur. However, based on information reviewed the potential sources are considered to be isolated and minor and unlikely to present a risk to surface water.
	Direct contact	Below ground infrastructure including buried concrete and utilities	Mild	Unlikely	Very Low	Based on the information reviewed potential sources of contamination are considered to be isolated and minor and unlikely to pose a risk to utilities. Elevated sulphate may attack concrete but this is mitigated through appropriate design.
	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present, hydrocarbon spills are considered to be local and isolated and have a low vapour generation potential.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Site. Given the anticipated geology groundwater is likely to be perched on cohesive layers. Excess herbicides and

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						pesticides could reach the aquifer and further migrate. There is significant superficial cover above the bedrock Principal aquifer which would limit vertical migration. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present adjacent to the Site. Excess herbicides or pesticides could flow into it, causing increased contamination.
Potential Made Ground associated with rail lines to the south of the site	Migration and ingress of hazardous ground gas	Below ground infrastructure including buried concrete and utilities	Medium	Unlikely	Low	If present hazardous ground gas may build up within enclosed spaces and pose an explosive risk. However, made ground associated with the rail line is anticipated to have low gas generation potential.

15.4 Discussion of risk to future construction workers, maintenance workers and off-site receptors

15.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

15.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

15.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

15.4.4 The greatest potential for generation of dust will be during the Site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

15.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Site.

15.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

15.4.7 Where piled foundations are proposed a requirement for a foundation works risk assessment to be produced will be included in the oCEMP [**EN0110012/APP/LVS/07.02**]. This will ensure selection of an appropriate piling methodology to minimise creation of a pollution pathway to groundwater.

15.4.8 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

15.4.9 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

15.5 Preliminary Risk Assessment conclusions

15.5.1 Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. However, there may be unforeseen ground conditions or contamination from agricultural uses or possible infilled ground such as former pits.

15.5.2 While the risk is low, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform a geotechnical appraisal of ground conditions will be required to support the detailed design of the development and is outlined in the oCEMP [**EN0110012/APP/LVS/07.02**]. It is recommended that this includes soil sampling and analysis to validate the contamination preliminary conceptual model.

16 Cable Route Corridor 1-4 site information

16.1 Introduction

16.1.1 Desk study information relating to the Cable Route Corridor 1-4 between Solar Development Site 1 and Solar Development Site 4 is described in this section. Relevant Groundsure reports and historical maps are provided in Annex G.

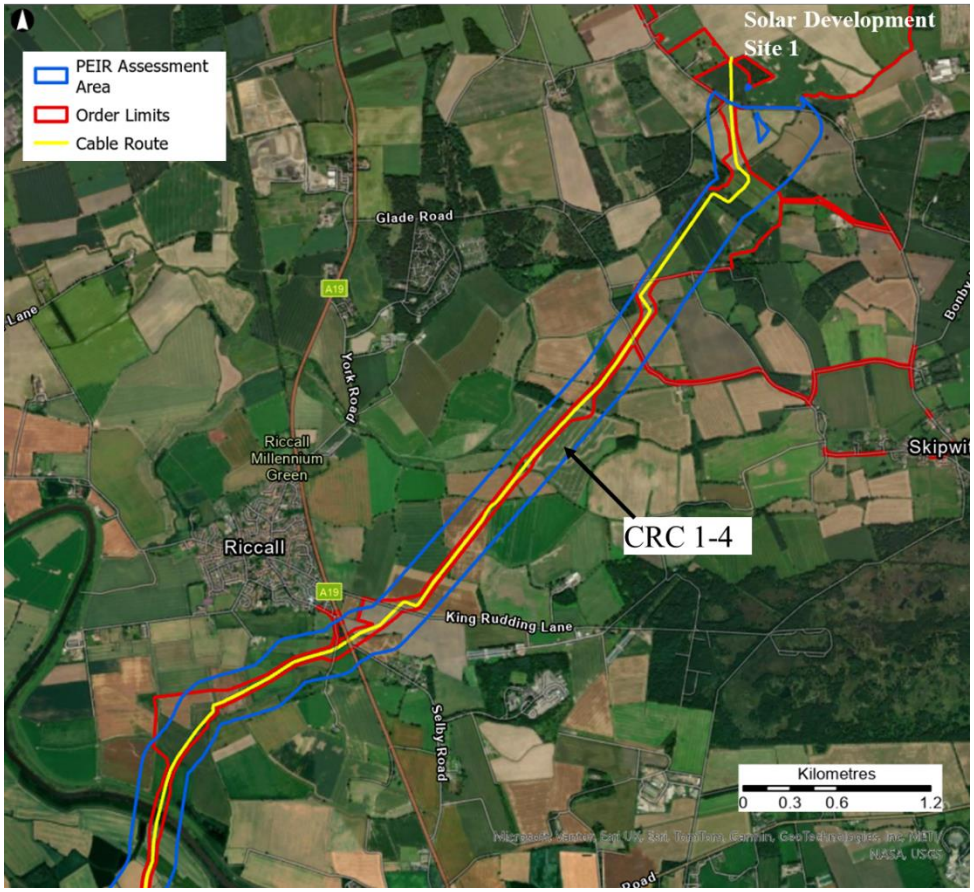
16.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study was based on the "PEIR Assessment Area" shown in blue on the location plan shown in Table 16-1. The current proposed Order Limits for the Cable Route Corridor are within the PEIR Assessment Area and/or the within the 250 m buffer area included within the desk study, and therefore the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment. The Highways Improvement Areas which extend beyond the PEIR Assessment area and 250 m buffer, have not been assessed as they comprise highlight localised works which are not considered to result I potential ground related risks from the Proposed Development.

16.2 Site location and description

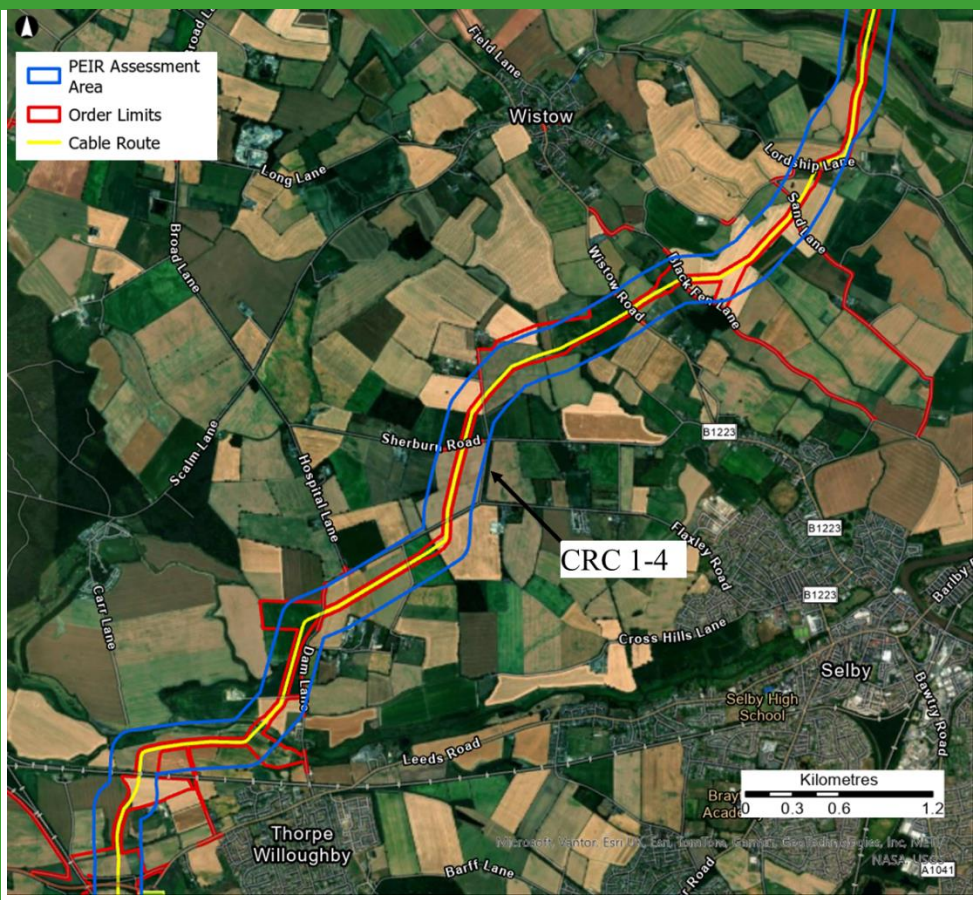
16.2.1 The location and description of Cable Route Corridor 1-4 is summarised in Table 16-1.

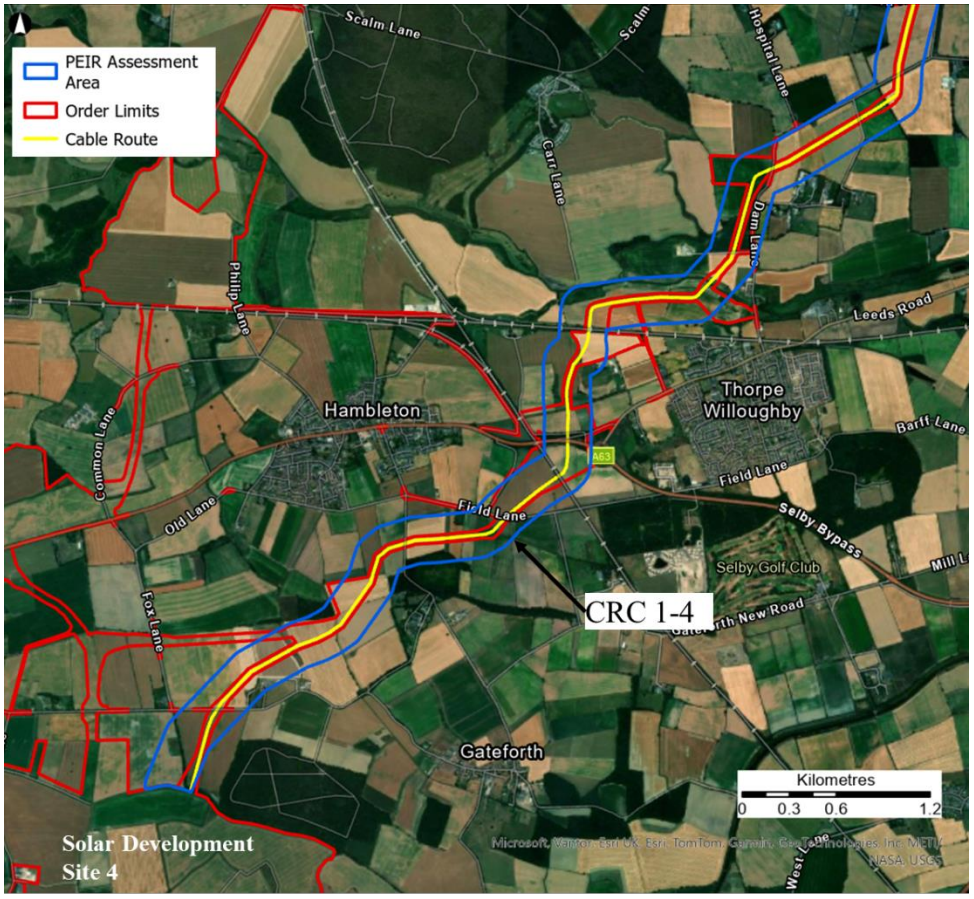
Table 16-1 Site location and description

Site location and description	
Site location	Land from Solar Development Site 1 (NGR 465219 440562) northwest of Skipwith Road extending southwest, crossing the A19 to the south of Riccall, River Ouse, Selby Dam, and A63 Selby Bypass to Solar Development Site 4 (NGR 454001 428533).The figures below show the location of the Cable Route Corridor and have been split across three figures (running north to south) due to the length of the route.



Site location and description





Site location and description	
Site description	The Assessment Area covers an area of approximately 555 ha and is approximately 18.7 km in length, orientated northeast to southwest. A review of OS mapping and aerial imagery indicates the Assessment Area is predominantly agricultural land comprising farms, fields, hedges and woodland. There are multiple surface water features which cross the Assessment Area including (from north to south) Holmes Dike, Dam Dike, Angram Dike, River Ouse, Black Fen Drain and Selby Dam, as well as other named and unnamed land drains. Multiple minor roads, access roads, farm tracks and footpaths cross the Assessment Area. Main roads crossing the Assessment Area include (from north to south) the A19 (to the south of Riccall) and A63 Selby Bypass (to the west of its junction with the A1238 at Thorpe Willoughby). Two rail lines cross the Assessment Area to the north and south of the A63 Selby Bypass.
Topography	In general, the topography of the Assessment Area is relatively flat with an elevation between approximately 2 m OD and 13 m OD.
Adjacent and surrounding land use	Land adjacent to and surrounding the Assessment Area comprises farms, agricultural land, roads, woodland, drainage ditches and watercourses, rail lines and villages (including Riccall, Thore Willoughby, and Hambleton).

16.3 Site history

16.3.1 Historical OS maps of the Assessment Area for Cable Route Corridor 1-4 and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex G.2.

16.3.2 The historical OS maps obtained from Groundsure date between 1852 and 1994. A summary of the main features identified on the historical maps and Goole Earth aerial imagery within the Cable Route Corridor 1-4 Assessment Area and surrounding area is presented in Table 16-2. For ease of description the Assessment Area had been split into three areas, the southern areas extending from Solar Development Site 4 to the A63, the central area extending from the A63 to the River Ouse and northern area extending from the River Ouse to Solar Development Site 1.

Table 16-2 Summary of site history

Map date	On Site	Off-Site
1852	Assessment Area predominantly undeveloped agricultural land comprising several fields with land drains, small ponds and pits. Many existing roads, tracks, plantations/woodland and farm buildings are located within the Assessment Area.	Surrounding area predominantly undeveloped agricultural land comprising several fields with land drains, small ponds and pits. Many existing roads, tracks, plantations/woodland and farm buildings are located off the Assessment Area.

Map date	On Site	Off-Site
	Southern area: Solar Development Site 4 to A63 Sandstone quarry located in the centre of the Assessment Area. **Central area: A63 to River Ouse** The Selby Dam River flows from west to east across the Assessment Area. Leeds and Selby railway is orientated east-west approximately 250 m south of the Selby Dam River. **Northern area: River Ouse to Solar Development Site 1** Double lines of railway are located along current A19 alignment. Cuttings and embankments are depicted along the railway lines.	**Southern area: Solar Development Site 4 to A63** Hambleton Hough woodland and associated buildings are located east of the Assessment Area. **Central area: A63 to River Ouse** Two wells are located to the south of the railway, to the east of the Study Area. A third well is located near Black Fen Cottage. Dutchman's Dike is located to the west of the Assessment Area. **Northern area: River Ouse to Solar Development Site 1** A railway station is present to the north of the Assessment Area.
1888 to 1901	**Southern area: Solar Development Site 4 to A63** Sandstone quarry is now disused. **Central area: A63 to Rier Ouse** No significant changes. **Northern area: Rier Ouse to Solar Development Site 1** The railway which tracks along the current A19 alignment is now called 'Northeastern Railway - York and Doncaster'.	**Southern area: Solar Development Site 4 to A63** No significant changes **Central area: A63 to River Ouse** A tank is mapped adjacent to the Assessment Area boundary near hospital lane. **Northern area: River Ouse to Solar Development Site 1** No significant changes
1905 to 1910	**Southern area: Solar Development Site 4 to A63** No significant changes. **Central area: A63 to Rier Ouse** Single lines of railway or tramway are mapped in a southeast-northwest orientation in the centre of the Assessment Area. **Northern area: River Ouse to Solar Development Site 1** No significant changes.	**Southern area: Solar Development Site 4 to A63** A filter bed is mapped to the east of the Study Area. **Central area: A63 to River Ouse** Single lines of railway or tramway cross the surrounding area. **Northern area: River Ouse to Solar Development Site 1** Sand pit located to the north of the Assessment Area.
1948 to 1956	**Southern area: Solar Development Site 4 to A63** Electricity transmission line constructed across the Assessment Area. **Central area: A63 to River Ouse** No significant changes.	**Southern area: Solar Development Site 4 to A63** No significant changes. **Central area: A63 to River Ouse** No significant changes. **Northern area: River Ouse to Solar Development Site 1**

Map date	On Site	Off-Site
	Northern area: River Ouse to Solar Development Site 1 Groundsure report indicates an airfield located partially on the Assessment Area.	Development of unnamed buildings to the east of the Northeastern Railway line.
1973 to 1987	**Southern area: Solar Development Site 4 to A63** The Groundsure report indicates there are ground working and refuse heap near Hambleton Hough in 1961. **Central area: A63 to River Ouse** The southeast-northwest trending single tramway or railway lines located in the centre of the Assessment Area is dismantled. **Northern area: River Ouse to Solar Development Site 1** Groundsure report indicates the airfield is disused by 1965.	**Southern area: Solar Development Site 4 to A63** A railway line is located to the north of the Assessment Area and is orientated southeast-northwest. The railway crosses two roads. Unspecified works located adjacent to the study. Southeast-northwest railway line crosses surrounding area. **Central area: A63 to River Ouse** Southeast-northwest railway line crosses surrounding area. Residential properties constructed south of the pre-existing east-west trending railway. A sewage works is located 230 m to the west of the Assessment Area, south of the east-west trending railway. **Northern area: River Ouse to Solar Development Site 1** Construction of residential properties to the east and west of the Northeastern Railway line.
1988 to 1994	**Southern area: Solar Development Site 4 to A63** No significant changes. **Central area: A63 to River Ouse** An east-west trending set of cuttings are depicted north of Lordship Lane. **Northern area: River Ouse to Solar Development Site 1** The Northeastern Railway no longer present and the existing A19 is built in its place.	No significant changes.
2024 Google Earth	No significant changes.	No significant changes.

16.3.3 The 1850s historical maps show that the Assessment Area and surrounding area predominantly comprised undeveloped agricultural land with several land drains, small ponds and sand pits/quarries. Many existing roads, tracks, plantations/woodland and farm buildings are present. From the 1850s a few

railways and/ or tramways have been constructed on the Assessment Area, two of which are still present within the Assessment Area to date.

16.3.4 There are ten records of historical industrial land uses within the Assessment Area recorded in the Groundsure Report including a former airfield present on historical mapping in 1950 by Riccall Common to the north of Selby Road. According to the Groundsure Report, the airfield was no longer used by 1965. Other activities include cuttings, unspecified old quarries, sand pits and unspecified pits along the length of the Assessment Area.

16.3.5 The predominant land use has continued to be agricultural to present day. The surrounding areas have been developed, with residential properties and recreational clubs (e.g. golf club) constructed along the A19 and Selby Bypass.

16.4 Physical setting

16.4.1 The physical setting of the Cable Route Corridor 1-4 Assessment Area is summarised in Table 16-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 35 and Ref 36) provided in Annex G.1 and other sources of information summarised in Section 1.4.

Table 16-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report records localised areas of made ground within the Assessment Area. These typically comprise Artificial Deposits, Infilled Ground and Worked Ground – Void, located along roads, rail lines and the River Ouse bank (assumed to be flood embankments) which cross the Assessment Area. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.
Superficial geology	The BGS map shows superficial deposits are present beneath the majority of the Assessment Area (they are absent beneath a small area to the south of Hambleton) from northeast to south they comprise: Skipwith Sand Member (clayey, gravelly sand); Park Farm Clay Member (clay and silt); Thorganby Clay Member (clay and silt); Alluvium (clay, silt, sand and gravel); Breighton Sand Formation (sand); Hemingbrough Glaciolacustrine Formation (silty clay); Peat.
Bedrock	The Sherwood Sandstone Group (sandstone) is present beneath a majority of the Assessment Area with the Roxby Formation (calcareous mudstone) is present beneath the southwestern corner of the Cable Route Corridor.

Physical characteristics	
Geological structures	Several inferred faults are shown on the BGS map to cross the Assessment Area. They typically trend southwest to northeast
Borehole records	Twenty non-confidential BGS borehole records are available within the Assessment Area and surrounding area. The nearest available boreholes indicated that the superficial deposits beneath the Assessment Area comprise variable layers of sand and clay which are between 13 m and 27 m thick beneath the centre and norther eastern end of the Assessment Area and 5 m to 9 m thick beneath the southwestern end of the Assessment Area. Where encountered sandstone bedrock extends to a depth of 130 m to 164 m beneath the centre and northeast of the Assessment Area and a depth of 65 m to 76 m beneath the southwest of the Assessment Area.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Assessment Area is located out with a Radon Affected Area, where the Health Protection Agency has estimated that less than 1% of properties would exceed the Radon Action Level.
Coal mining	The Assessment Area lies within the Coal Mining Reporting area (Ref 13). There are multiple records of past underground coal mining beneath the Assessment Area. The workings are at depth typically between 370 m and 820 m and therefore are not considered to pose a risk of ground subsidence to the Proposed Development. No past or probable shallow mine workings are recorded beneath the Assessment Area. No mine entries or development high risk areas are present within 250 m.
Non-coal mining / minerals	Four historical surface mineral workings were located within the Assessment Area. Two Cross Pits producing sand located within the Assessment Area near to Riccall. Marsh Dyke Brick Ponds, clay and shale pit located near Riccall and Hambleton Hough sandstone quarry located near Hambleton in the south of the Assessment Area. No current extraction activities have been identified within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designation	The Breighton Sand Formation is designated as a Secondary A aquifer. The Thorganby Clay Member and Hemingbrough Glaciolacustrine Formation are designated as Unproductive strata. All other superficial deposits beneath the Assessment Area are designated as Secondary Undifferentiated aquifers. The Sherwood Sandstone bedrock is designated as a Principal aquifer. The Roxby Formation is designated as a Secondary B aquifer.
Source protection zones (SPZ)	There is one Zone 3 SPZ located within the Assessment Area boundary in the southwestern end of the Cable Route Corridor between The Oaks and Hambleton Hough. There are no other SPZs within 250m of the Assessment Area.

Physical characteristics	
Licensed groundwater abstractions	There is one active groundwater abstraction located within the Assessment Area in the northeast as follows: Escrick Park Home Farm, licence number: NE/027/0024/056, for spray irrigation use, at maximum daily volume 5,616 m^3 and maximum annual volume of 322,000 m^3. There is one active groundwater abstractions within 250 m of the Assessment Area, located approximately: 130 m northeast at Bradshaws for general farming and domestic use.
Unlicensed groundwater abstractions	There is one active unlicensed groundwater abstraction within the south of the Assessment Area at Hagg House.
Groundwater Water Framework Directive (WFD) bodies	Two WFD groundwater bodies are present beneath the Assessment Area: Aire & Don Sherwood Sandstone groundwater body, water body ID GB40401G701000. The overall rating is classified as poor. Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40401G702400. The overall rating is classified as poor.
Hydrology	
Surface waterbodies	Approximately 54 surface water bodies are present along the Assessment Area. These predominantly comprised land drains with a several surface water features as including (from north to south) Holmes Dike, Dam Dike, Angram Dike, River Ouse, Black Fen Drain and Selby Dam. A number of small ponds are located along the Cable Route Corridor Options route.
Surface water bodies and catchments	There are five WFD surface water body catchments located in the Assessment Area: Ouse from R Wharfe to Upper Humber, water body ID: GB104027064270; Selby Dam from Conf. Fox Dike and Carr Dike to Ouse, water body ID: GB104027063620; Riccall Dam Catchment (tributary of Ouse), water body ID: GB104027063690; Holmes Dike catchment (tributary of Ouse), water body ID: GB104027063650; and The Fleet from Source to River Aire, water body ID: GB104027062740 All five of these surface water bodies had a moderate overall rating.
Licensed surface water abstractions	There are three active licensed surface water abstractions located within the Assessment Area: Escrick Park Home Farm, licence number NE/027/0024/049, located at Pallion Dike Thorganby to Dam Dike Skipwith with a daily abstraction volume of 1,260 m^3 and annual abstraction volume 54,900 m^3. Water is abstracted for spray irrigation use. C E & J E Clark, licence number NE/027/0024/095, located at The Ings and The Pond in Selby both abstraction points have a daily abstraction volume of 216 m^3 and annual abstraction volume 38,500 m^3. Water is abstracted for spray irrigation use. H Hey & Sons, licence numbers 2/27/24/472/R01 and NE/027/0018/008, located at Selby Damn – Thorpe Willoughby and Maspin Moor Drain, with daily

Physical characteristics	
	abstraction volumes of 900 m3 and 800 m3 and annual abstraction volume 26,000 m3 and 15,000 m3, respectively. Water is abstracted for spray irrigation use.

16.5 Summary of environmental setting and regulated activities

16.5.1 The environmental setting and regulated activities within the Cable Route Corridor 1-4 Assessment Area and surrounding area is summarised in Table 16-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 36) provided in Annex G.1 and other sources of information summarised in Section 1.4.

Table 16-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are two active licensed discharge consents within the Assessment Area. Charity Farm, Skipwith for sewage discharges – final/treated effluent (not water company) to Riccall Dam; Whinchat Farm, Escrick for sewage discharges – final/treated effluent (not water company) to unnamed Ditch. There are a further five licensed discharge consents within 250 m of the Assessment Area which all relate to sewage effluent discharges to surface watercourses.
Pollution incident register	One pollution incident is recorded within the central part of the Assessment Area. The incident occurred in 2001, the release of slurry and dilute slurry was deemed to have a minor impact on water (category 3) and no impact on air or land (category 4). One incident is recorded within 250 m of the Assessment Area. This occurred 227 m southwest in 2022, when a release of crude sewage resulted in a significant impact to water (category 2) and no impact (category 4) air and land.
Licensed industrial activities	There are no licensed industrial activities within the Assessment Area. There are two current environmental permits held by Tarmac Trading Ltd located 170 m northeast of the Assessment Area. These relate to an asphalt recycling facility.
Waste management facilities and historical landfill	
Active or historical landfill	No active or historical landfills within 250 m of the Assessment Area. A historical waste site is recorded by Groundsure in the southwest of the Assessment Area at Hambleton Hough. This is recorded as an area of ground workings and refuse heap identified on the 1961 historical mapping.
Licensed waste sites	None within the Site.

Environmental Setting	
	There are two waste licences relating to the Smiths Metals 159 m to the southwest. The waste licences are for a ELV facility and metal recycling site (vehicle dismantler). Ther is one waste licence relating to an Asphalt Recycling Facility 170 m to the northeast.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Assessment Area. These include the storing of sludge associated with farming at Portland Lodge Farm, Manor Farm, Charles Clark Field and Catfoss Airfield, and use of waste for construction at Parks Farm.
Protected areas	
Sensitive sites (within 250 m)	The Burr Closes SSSI is present in centre of the Assessment Area to the north of Selby Common. One designated ancient woodland is present within the north of the Assessment Area.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Assessment Area is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

16.6 Industrial land use

16.6.1 According to the Groundsure Report (Ref 20) there are no recent industrial land uses within the Cable Route Corridor 1-4 Assessment Area. Recent industrial uses within 250 m include an unspecified works, cylinders testing facility, vehicle repair garage, fire equipment services and construction supplies, which are all located near the southwest end of the Assessment Area.

17 Cable Route Corridor 1-4 Conceptual Site Model and Preliminary Risk Assessment

17.1 Approach

17.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

17.2 Conceptual site model

17.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

17.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland, railways, roads, river flood embankments and potential backfilled ponds, pits, quarry and ground workings;
2) Possible small-scale leaks of fuels and oils associated with agricultural use and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use;

17.2.3 Off-Site:

1) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides;
2) Potential Made Ground contamination associated with rail lines, farming activities, and infilled pits and ponds in surrounding areas to the south;
3) Former sewage works 230 m to the west; and
4) Asphalt recycling facility 170 m to the northeast.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils.

Potential receptors

1) Construction workers;
2) Residential and commercial neighbours on and adjacent to the Assessment Area;

3) Surface watercourses including River Ouse, streams and ponds on the Cable Route Corridor;
4) Groundwater in the underlying Secondary superficial aquifers, Principal and Secondary bedrock aquifer and SPZ3;
5) Licensed groundwater abstraction within the Assessment Area for spray irrigation and unlicensed groundwater within the Assessment Area;
6) Licensed surface water abstractions within the Assessment Area for spray irrigation use;
7) Below ground infrastructure including buried concrete and utilities including cables; and
8) Public access via footpaths, roads and access tracks.

17.3 Preliminary Risk Assessment

17.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 1-4 has been produced. The qualitative assessment of the possible linkages is provided in Table 17-1.

17.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

17.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

17.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

17.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

17.3.6 Farm dwellings and other properties are included within the Assessment Area boundary; however, the Cable Route Corridor will not extend onto these properties for these to represent a source. They are however included in the potential receptors.

Table 17-1 Potential sources, pathways and receptors Cable Route Corridor 1-4

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, railways, roads, river flood embankment and potential backfilled ponds, pits, quarries and ground workings	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ3	Medium	Low	Moderate/ Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], will be implemented to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is not considered likely with the source and receptor likely to be localised.
		Licensed and unlicensed water abstractions	Medium	Unlikely	Low	No significant sources of contamination have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ3	Medium	Low	Moderate/ Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], will be implemented during the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
		Licensed and unlicensed water abstractions	Medium	Unlikely	Low	No significant sources of fuels or oils have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Historic elevated pesticides and herbicides from on and off-site sources	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ3	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential sources are considered to be

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
		Licensed and unlicensed water abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low.

17.4 Discussion of risk to future construction workers and off-site receptors

17.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

17.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

17.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

17.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

17.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Assessment Area.

17.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

17.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

17.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

17.5 Preliminary Risk Assessment conclusions

17.5.1 Given the nature of the Proposed Development and current and historical land uses there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a

moderate/low risk to Secondary and Principal aquifers if Made Ground contamination or pollution incidents are encountered.

17.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be implemented for the proposed Cable Route Corridor.

18 Cable Route Corridor 2-4 and Cable Route Corridor 2-8 site information

18.1 Introduction

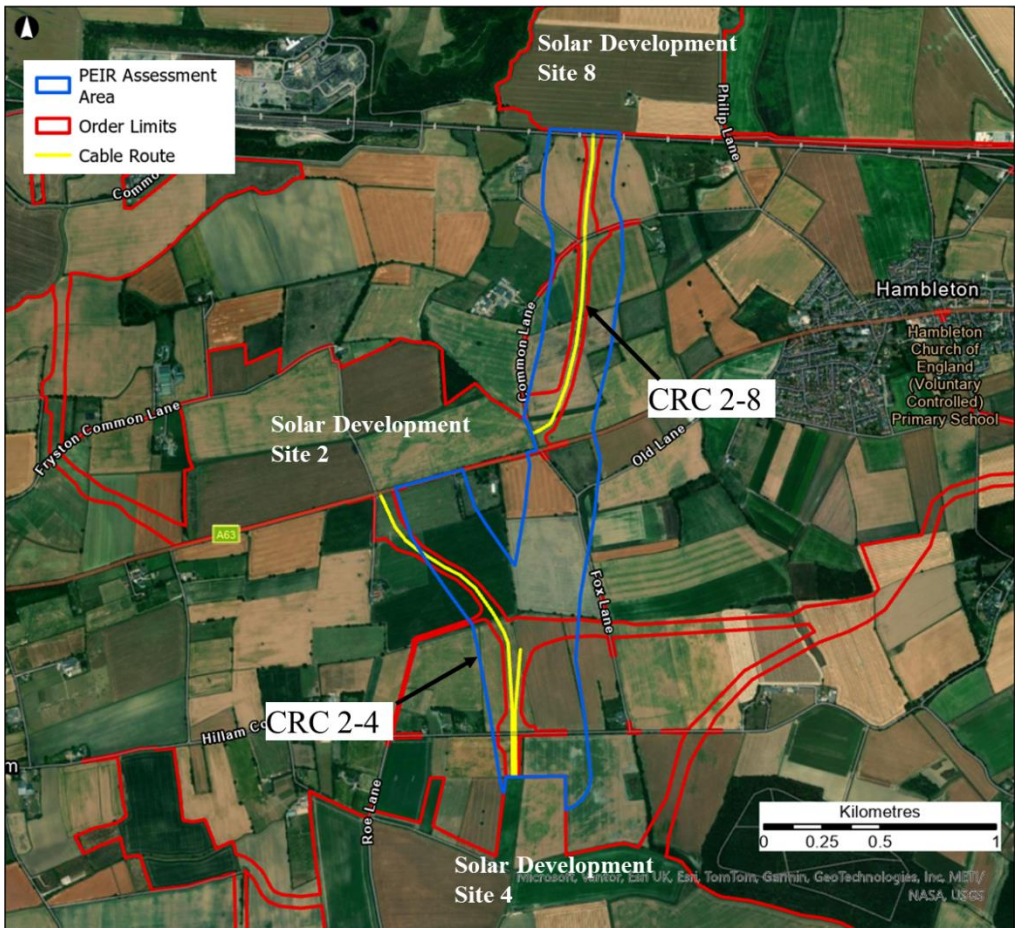
18.1.1 Desk study information relating to the Cable Route Corridor 2-4 between Solar Development Site 2 and Solar Development Site 4 and Cable Route Corridor 2-8 between Solar Development Site 2 and Solar Development Site 8 is described in this section. Relevant Groundsure reports, historical maps are provided in Annex H.

18.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study is based on the "PEIR Assessment Area" shown in blue on the location plan shown in Table 18-1. The current proposed Order Limits and Cable Route Corridor are within the Assessment area, apart from a short section at the north end of Cable Route Corridor 2-4. This section of cable is less than 100 m from the Assessment Area boundary and data related to this area is assessed in the review of off-site features presented in this desk study. Therefore, the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment

18.2 Site land location and description

18.2.1 The location and description of Cable Route Corridor 2-4 and Cable Route Corridor 2-8 is summarised in Table 18-1.

Table 18-1 Site location and description

Site location and description	
Site Location	Land from Solar Development Site 4 (NGR 453641 428830) south of Hillam Common Lane extending northwest to Solar Development Site 2 (NGR 453148 430109) and the A63 and, extending north to Solar Development Site 8 (453822 431611) crossing the A63, and rail line. 
Site description	The Assessment Area covers an area of approximately 11 ha with CRC 2-4 approximately 2.9 km in length and CRC 2-8 approximately 1.4 km in length A review of OS mapping and aerial imagery indicates the Assessment Area is predominantly agricultural land comprising farms, fields, hedges and occasional trees. The Assessment Area is crossed by several small streams/ land drains including Causeway Dike. Multiple minor roads, access roads and footpaths cross the Assessment Area. The A63 crosses the centre of the Assessment Area, and a rail line crosses the northern Assessment Area boundary.
Topography	The topography of the Assessment Area is relatively flat at an elevation of approximately 7 to 8 m OD.
Adjacent and surrounding land use	Land adjacent to and surrounding the Assessment Area comprises farms, agricultural land, roads and land drains. The village of Hambleton is approximately 800 m to the west.

18.3 Site history

18.3.1 Historical OS maps of the Cable Route Corridor 2-4 and Cable Route Corridor 2-8 Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical OS maps are presented in Annex H.2.

18.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Assessment Area and surrounding area is presented in Table 18-2.

Table 18-2 Summary of site history

Map date	On Site	Off-Site
1850	Leeds and Selby railway is located to the north of the Assessment Area and is orientated east-west. Roads including Old Lane, Maspin Moor Lane and Common Lane cross the Assessment Area. The Assessment Area comprises agricultural land, hedgerows, trees, drains and footpaths. An area of woodland labelled 'Brecks Woods' is located within the centre of the Assessment Area.	The surrounding area predominantly comprises agricultural land with few farm buildings including Owlet Hall, Ruddings, Maspin Grange and Brecks Farm.
1950	A northeast-southwest trending electricity transmission line is constructed across the centre of the Assessment Area.	The electricity transmission cable crosses the surrounding area.
1957	No changes	No changes
1967	Brecks Wood area is no longer mapped as woodland, and a few small buildings are now located within the former woodland.	No changes
1986	No changes	No changes
Pre 2002	No changes	Farm buildings located to the east of the Assessment Area along Common Lane.
2024	No changes	No changes

18.3.3 The earliest OS historical mapping from the 1850s shows the Assessment Area of Cable Route Corridor 2-4 and 2-8 and surrounding area comprised largely undeveloped agricultural land with drainage channels. The multiple roads and the Leeds and Selby railway line pre-date the first historical map. An area of woodland known as Breckwood was present in the centre of the Assessment Area. By the 1950s, a northeast-southwest trending electricity line has been constructed across the Assessment Area. Brecks Wood had been cleared by the mid-1960s, and a few buildings were constructed in its place. The Assessment Area remained relatively unchanged from the mid-1960s.

18.4 Physical setting

18.4.1 The physical setting of the Cable Route Corridor 2-4 and 2-8 Assessment Area is summarised in Table 18-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 37 and Ref 40) provided in Annex H.1 and other sources of information summarised in Section 1.4.

Table 18-3 Summary of physical setting

Physical setting	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report records Made Ground as Artificial Deposits along the rail line on the northern Assessment Area boundary. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.
Superficial geology	The BGS map shows superficial deposits are present beneath the entire Assessment Area comprising the Breighton Sand Formation (sand), Hemingbrough Glaciolacustrine Formation (silty clay).
Bedrock	The Sherwood Sandstone Group (sandstone) is present beneath the majority of the Assessment Area while the Roxby Formation (calcareous mudstone) is present in the south the Assessment Area.
Geological structures	Three inferred faults are present across the Assessment Area. Two of the faults are trend northeast to southwest, while the third fault trends northwest to southeast.
Borehole records	Five non-confidential BGS borehole records are available within the Assessment Area and surrounding area. The nearest available boreholes indicated that the superficial deposits beneath the Assessment Area comprise variable layers of clay, silt and sand which are between 12 m to 23 m thick. Where encountered sandstone bedrock was proven to extent to a depth of 51 m and mudstone bedrock to a depth of 56 m.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Assessment Area is located out with a Radon Affected Area, where the Health Protection Agency has estimated that less than 1% of properties would exceed the Radon Action Level.
Coal mining	The Assessment Area lies within the Coal Mining Reporting Area, but is not within a development high risk area or area of past or probable shallow coal mining workings; therefore, there is a minor risk from coal mining (Ref 13). There are no records of past underground coal mining beneath the Assessment Area.
Non-coal mining / minerals	There are no records of non-coal mining activities within the Assessment Area or surrounding area.
Hydrogeology	

Physical setting	
Aquifer designations	The Breighton Sand Formation is designated as a Secondary A aquifer. The Thorganby Clay Member is designated as a Secondary Undifferentiated aquifer. The Sherwood Sandstone bedrock is designated as a Principal aquifer. The Roxby Formation is designated as a Secondary B aquifer.
Source protection zones (SPZ)	No SPZs are located within the Assessment Area boundary; however, one Zone 1 (inner catchment) SPZ is located approximately 80 m to the north of the Assessment Area. There are no other SPZs within 250m of the Assessment Area.
Licensed groundwater abstractions	No active groundwater abstractions are located within the Assessment Area. There is one active ground abstractions within 250 m as follows: 130 m north, G R Parking & Sons, licence number 2/27/24/459/R01, for general farming and domestic use, at maximum daily volume of 35 m^3 and maximum annual daily abstraction volume of 9,000 m^3.
Unlicensed groundwater abstractions	No active unlicensed groundwater abstractions within the Assessment Area or within 250m.
Groundwater Water Framework Directive (WFD) bodies	Three WFD groundwater bodies are present beneath the Assessment Area: Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900. The overall rating classified as poor. Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating classified as poor. Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40401G702400. The overall rating classified as poor.
Hydrology	
Surface waterbodies	Approximately 14 surface water bodies are present along the Assessment Area. These predominantly comprised land drains including the Causeway Dike.
Surface water bodies and catchments	The Assessment Area is located across two Water Framework Directive (WFD) surface water body catchments: Selby Dam from Conf. Fox Dike and Carr Dike to Ouse, water body ID: GB104027063620. Operational catchment Ouse Lower Yorkshire and management catchment Wharfe and Ouse Lower; and The Fleet from Source to River Aire, water body ID: GB104027062740. Operational catchment Aire Lower and management catchment Aire and Calder. Both of these surface water bodies had moderate overall rating.
Licensed surface water abstractions	There are no active surface water abstractions located within the Assessment Area. There is one licensed surface water abstraction within 250 m as follows: 168 m northwest, Hartleys Farming Ltd, licence number 2/27/24/469/R01, located at Fleet Dyke, with daily abstraction volumes of 635 m^3 and annual abstraction volume of 4,546 m^3. Water is abstracted for spray irrigation use.

18.5 Summary of environmental setting and regulated activities

18.5.1 The environmental setting and regulated activities at the Cable Route Corridor 2-4 and 2-8 Assessment Area and surrounding area is summarised in Table 18-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 38) provided in Annex H.1 and other sources of information summarised in Section 1.4.

Table 18-4 Summary of environmental setting

Environmental setting	
Environment Agency records	
Discharge consents	No licensed discharges are located on or within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within 250 m of the Assessment Area.
Licensed industrial activities	No licensed industrial activities are recorded within 250 m of the Assessment Area.
Waste management facilities and historical landfill	
Active or historical landfill	No active or historical landfill sites are located within 250 m of the Assessment Area.
Licensed waste sites	No licensed waste sites are located within 250 m of the Assessment Area.
Waste exemptions	No active waste exemptions are located on the Assessment Area; however, multiple active waste exemptions are located within 250 m of the Assessment Area associated with farming activities at Hagg Bush Farm and Burley Manor Farm.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	Zetica UXO maps show a low risk of unexploded ordnance (Ref 15).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

18.6 Industrial land uses

18.6.1 According to the Groundsure Report (Ref 38) there are no recent industrial land uses recorded within the Cable Route Corridor 2-4 and 2-8 Assessment Area or within 250 m.

19 Cable Route Corridor 2-4 and Cable Route Corridor 2-8 Conceptual Site Model and Preliminary Risk Assessment

19.1 Approach

19.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

19.2 Conceptual site model

19.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

19.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland, railways and roads;
2) Possible small-scale leaks of fuels and oils associated with agricultural use and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area;

Off-Site:

4) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides; and
5) Potential Made Ground contamination associated with rail lines, roads and farming activities in surrounding area;

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers
2) Residential and commercial neighbours adjacent to the Assessment Area;
3) Surface watercourses including streams within the Assessment Area;

4) Groundwater in the underlying Secondary superficial aquifers, Principal and Secondary bedrock aquifer and off-site SPZ1;
5) Licensed groundwater abstraction off-site for general use;
6) Licensed surface water abstractions off-site for spray irrigation;
7) Below ground infrastructure including solar panels, conversion units, buried concrete and utilities including cables; and
8) Public access via footpaths, roads and access tracks.

19.3 Preliminary Risk Assessment

19.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 2-4 and Cable Route Corridor 2-8 has been produced. The qualitative assessment of the possible linkages is provided in Table 19-1.

19.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

19.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

19.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

19.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

Table 19-1 Potential sources, pathways and receptors Cable Route Corridor 2-4 and Cable Route Corridor 2-8

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, roads and railway	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Low	Moderate/ Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be carried out to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						not considered likely with the source and receptor likely to be localised.
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of contamination have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Low	Moderate/ Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be implemented for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						migrate and leach to cause significant harm is considered low.
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of fuels or oils have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
		Licensed water abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

19.4 Discussion of risk to future construction workers and off-site receptors

19.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

19.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

19.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

19.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

19.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Assessment Area.

19.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

19.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

19.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

19.5 Preliminary Risk Assessment conclusions

19.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a

moderate/low risk to Secondary and Principal aquifers if Made Ground contamination or pollution incidents are encountered.

19.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy is recommended to be developed for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

20 Cable Route Corridor 2-6 site information

20.1 Introduction

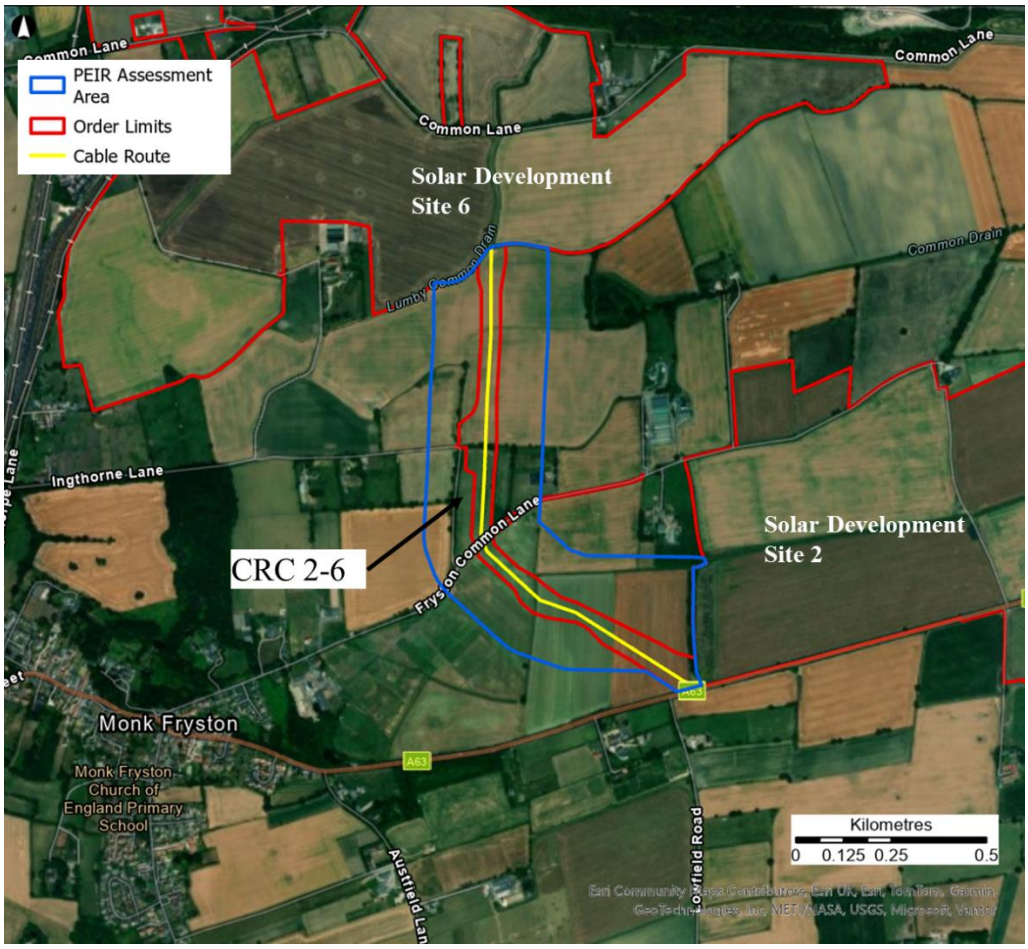
20.1.1 Desk study information relating to the Cable Route Corridor 2-6 between Solar Development Site 2 and Solar Development Site 6 is described in this section. Relevant Groundsure reports, historical maps are provided in Annex I.

20.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study was based on the “PEIR Assessment Area” shown in blue on the location plan shown in Table 20-1. The current proposed Order Limits and Cable Route Corridor are within the Assessment Area and therefore the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment.

20.2 Site land location and description

20.2.1 The location and description of Cable Route Corridor 2-6 is summarised in Table 20-1.

Table 20-1 Site location and description

Site location and description	
Site Location	Land from Solar Development Site 2 (NGR 452101 430017) north of the A63 extending northwest to Solar Development Site 6 (NGR 451568 430979) at Lumby Common Drain, crossing Fryston Common Lane, Ingthorne Land and Common Drain. 
Site Description	The Assessment Area covers an area of approximately 39 ha and is approximately 1.4 km in length. The Assessment Area comprises agricultural fields, hedgerows, occasional trees, drainage ditches and roads. The Assessment Area is crossed by Fryston Common Lane in the centre and Ingthorne Lane in the west. The Assessment Area is crossed by Common Drain in the centre, Lumby Common Drain in the north, Fleet Dyke in the east. Causeway Dike is present immediately adjacent to the south of the Assessment Area. A stable is located in the centre east of the Assessment Area. A major carriage way (A63) is in close proximity to the southern Assessment Area boundary. Woodland areas, agricultural land are immediately adjacent to the Assessment Area boundary.
Topography	The topography of the Assessment Area is relatively flat at an elevation of approximately 7 m OD to 8 m OD.

Site location and description	
Adjacent and surrounding land use	Oak Tree Farm is located adjacent to the eastern edge of the Assessment Area. Fryston Common Farm is located at the southeastern edge of the Assessment Area. Meadow Croft and Milford Grange is present adjacent to the west of the Assessment Area. The immediate surrounding area is predominantly agricultural land.

20.3 Site history

20.3.1 Historical OS maps of the Cable Route Corridor 2-6 Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical maps are presented in Annex I.2.

20.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth Aerial Imagery within the Assessment Area and surrounding area is presented in Table 20-2.

Table 20-2 Summary of site history

Map date	On Site	Off-Site
1850	Agricultural land, hedgerows, trees, drains and roads are present across the Assessment Area.	Hitchcock Wood is present to the northeast of the Assessment Area. Milford Frange is present to the northwest of the Assessment Area.
1891	No change	Two small buildings and a well are present in a field to the west of the Assessment Area. Two troughs or tanks are present in a field to the northeast of the Assessment Area.
1950	A small woodland is present in the centre north of the Assessment Area.	Two new farm buildings are present to the south of the Assessment Area.
1986 – 1987	No change	Small buildings to the west of the Assessment Area are no longer present.
1995	No change	No change
2007	Stables and paddock are present in the centre of the Assessment Area.	A pond is being excavated to the northeast of the Assessment Area.
2013	No change	The ponds to the northeast of the Assessment Area have been extended. A new farmhouse and ancillary farm buildings have been constructed to the east of the Assessment Area.
2023	No change	No change

20.3.3 The earliest OS historical mapping from the 1850s shows the Cable Route Corridor 2-6 Assessment Area and surrounding area comprised undeveloped agricultural land with drainage channels and occasional trees. A paddock and stables were constructed on the Assessment Area in 2007. Minor developments to farms and farmland have occurred surrounding the Assessment Area.

20.3.4 The Assessment Area has continued to be used for agricultural land to present day.

20.4 Physical setting

20.4.1 The physical setting of the Cable Route Corridor 2-6 Assessment Area is summarised in Table 20-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 39 and Ref 40) provided in Annex I.1 and other sources of information summarised in Section 1.4.

Table 20-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex I.1) does not record any mapped Made Ground within 250 m of the Assessment Area. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.
Superficial geology	The BGS map shows superficial deposits are present across the entire Assessment Area comprising the Hemingbrough Glaciolacustrine Formation, which is described as silty clay located in the south of the Assessment Area and silty clay with peat and sand located in the north of the Assessment Area.
Bedrock	The BGS map shows bedrock beneath the Assessment Area comprises the Roxby Formation (calcareous mudstone) beneath the east of the Assessment Area and the Brotherton Formation (dolomitic limestone) beneath the west of the Assessment Area. The Roxby Formation is a reddish-brown mudstone and siltstone with subordinate sandstone and the Brotherton Formation comprises a grey dolomitic limestone with abundant Calcinema fossils (Ref 4).
Geological structures	One southwest to northeast trending fault is inferred to cross the Assessment Area, while two southwest to northeast trending faults are inferred to be present immediately to the northeast of the Assessment Area.
BGS borehole records	There are two BGS borehole records within the Assessment Area. The borehole records indicate superficial deposits beneath the Assessment Area may comprise variable layers of sand and clay to a depth of 18 m. Where encountered sandstone bedrock extends to a depth of 25 m, limestone and marl bedrock extends to a depth of approximately 160 m, with Coal Measures beneath.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.

Physical characteristics	
Radon	The Assessment Area is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	The Mining Remediation Authority Map Viewer was reviewed (Ref 13). The Assessment Area lies within a Coal Mining Reporting area. There are no records of past underground coal mining beneath or within approximately 250 m of the Assessment Area; however, one record associated with an unknown colliery is present approximately 280 m northwest of the Assessment Area. The colliery mined the Top Beeston coal seam at depths of 310 m in 1976. No past or probable shallow mine workings are recorded beneath the Assessment Area. No mine entries or development high risk areas are present within 250 m of the Assessment Area. The closest mine entries are located 1.4 km to the northeast. As the mine workings near to the Assessment Area are at depth the risk from coal mining is considered to be low.
Non-coal mining /minerals	No surface ground workings or evidence of other mineral extraction is recorded within 500 m of the Assessment Area in the Groundsure Report. No current extraction activities have been identified within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Assessment Area is designated as an Unproductive aquifer. The Brotherton Formation bedrock is designated as a Principal aquifer and the Roxby Formation is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Assessment Area is not located within a groundwater SPZ. There is one SPZ within 250m, a Zone 1 (inner catchment) SPZ 100 m to the east of the Assessment Area.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within the Assessment Area; however, one active groundwater abstraction is located approximately 130 m north of the Assessment Area: Borehole – Magnesian Limestone – Monk Fryston, licence number 2/27/24/320, owned by Monk Fryston Farm Partners, with a daily abstraction volume of 27.3 m^3 and annual abstraction volume 9,953 m^3. Groundwater abstracted is for general farming use and domestic.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions within the Assessment Area or within 250m.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the Assessment Area (Ref 40): • Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Lumby Common Drain is located in the north of the Assessment Area. Common Drain is present in the centre of the Assessment Area. Maspin Moor Drain is located in the east of the Assessment Area.

Physical characteristics	
	Fleet Dike is present in the east of the Assessment Area. Multiple unnamed drains are present across the Assessment Area. Causeway Dike is present immediately adjacent to the south of the Assessment Area. Multiple fishing ponds are present approximately 120 m to the east.
Surface Water (WFD) bodies	The Assessment Area is located within one WFD surface water body catchment is located within the Assessment Area (Ref 40): The Selby Dam from Conf. Fox Dike and Carr Dike to Ouse, water body ID GB104027063620. The overall rating is classified as moderate.
Licensed surface water abstractions	There is one active licensed surface water abstraction within the Assessment Area as follows: The abstraction is used for spray irrigation and located in the east of the Assessment Area. The licence is held by Hartleys Farming Ltd, licence number 2/27/24/469/R01. Water is abstracted from Fleet Dike, the licence has a daily abstraction volume of 635 m^3 and annual abstraction volume 4,546 m^3. No other active surface water abstractions are located within 250 m of the Assessment Area.

20.5 Summary of environmental setting and regulated activities

20.5.1 The environmental setting and regulated activities at the Cable Route Corridor 2-6 Assessment Area and surrounding area is summarised in Table 20-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 40) provided in Annex I.1 and other sources of information summarised in Section 1.4.

Table 20-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within 250 m of the Assessment Area.
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Assessment Area.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Assessment Area.
Licensed waste sites	None within 250 m of the Assessment Area.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Assessment Area. These comprise the storing and disposing of waste associated with farming activities.

Environmental Setting	
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Assessment Area is situated in an area of low UXO risk (Ref 12).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

20.6 Industrial land use

20.6.1 According to the Groundsure Report (Ref 39) there are no recent industrial land uses within 500 m of the Cable Route Corridor 2-6 Assessment Area.

21 Cable Route Corridor 2-6 Conceptual Site Model and Preliminary Risk Assessment

21.1 Approach

21.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

21.2 Conceptual site model

21.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

21.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland, roads and possible infilled ponds;
2) Possible small-scale leaks of fuels and oils associated with agricultural use and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area;

Off-Site:

4) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides; and
5) Potential Made Ground contamination associated with roads and farming activities in surrounding area;

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers
2) Residential and commercial neighbours adjacent to Assessment Area;
3) Surface watercourses including streams on Assessment Area;
4) Groundwater in the underlying Principal and Secondary bedrock aquifer and off-site SPZ1;

5) Licensed groundwater abstraction off-site for general farming use;
6) Licensed surface water abstractions off site for spray irrigation;
7) Below ground infrastructure including solar panels, conversion units, buried concrete and utilities including cables; and
8) Public access via footpaths, roads and access tracks.

21.3 Preliminary Risk Assessment

21.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 2-6 has been produced. The qualitative assessment of the possible linkages is provided in Table 21-1.

21.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

21.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

21.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

21.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

Table 21-1 Potential sources, pathways and receptors Cable Route Corridor 2-6

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, roads and railway	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	No significant sources of contamination have been identified. The superficial geology beneath the Assessment Area is a low permeability stratum which would limit downward migration to the underlying bedrock Principal and Secondary aquifer. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be implemented for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						not considered likely with the source and receptor likely to be localised.
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of contamination have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be implemented for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of fuels or oils have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Given the anticipated geology groundwater in the bedrock aquifers is overlain by low permeability strata which would limit downward migration of contaminants. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Licensed water abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

21.4 Discussion of risk to future construction workers and off-site receptors

21.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

21.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

21.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

21.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

21.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified within the Assessment Area.

21.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

21.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

21.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

21.5 Preliminary Risk Assessment conclusions

21.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors.

21.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy is recommended to be developed for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

22 Cable Route Corridor 3-4 and Cable Route Corridor 3-4a site information

22.1 Introduction

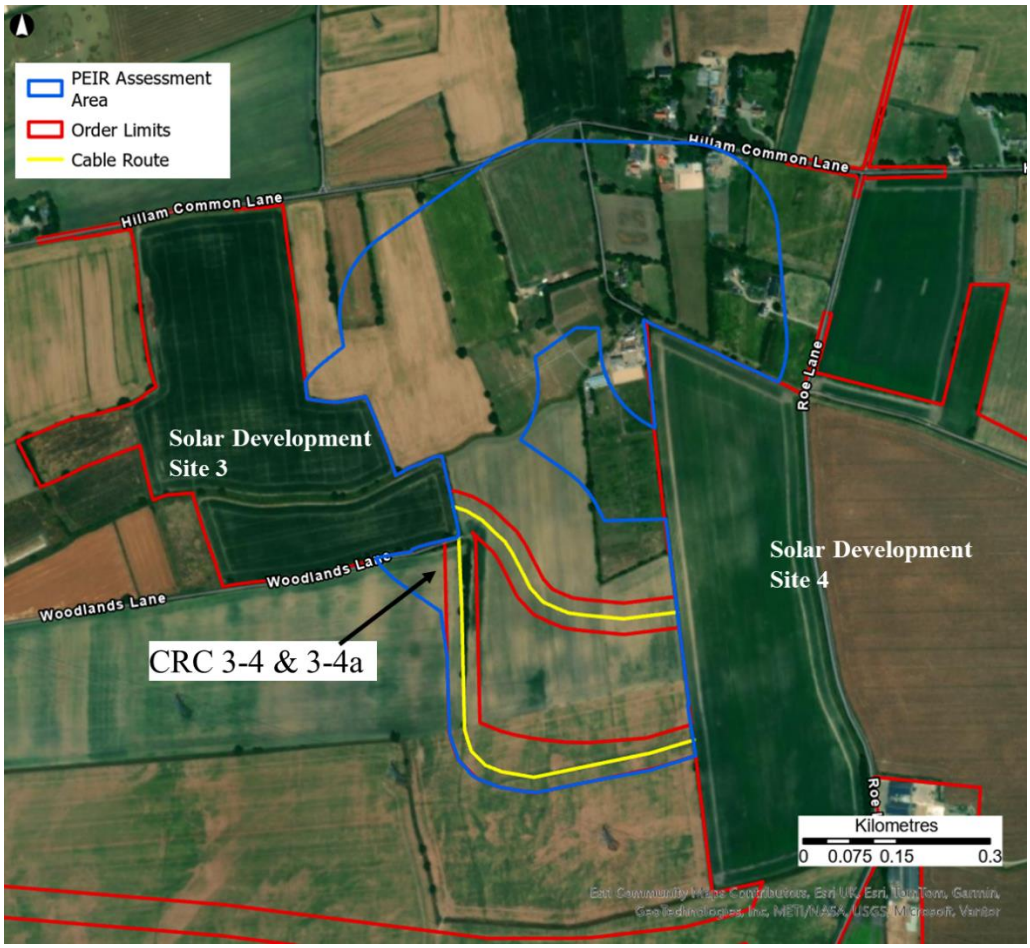
22.1.1 Desk study information relating to the Cable Route Corridor 3-4 and Cable Route Corridor 3-4a between Solar Development Site 3 and Solar Development Site 4 is described in this section. Relevant Groundsure reports, historical maps and site photographs are provided in Annex J.

22.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study was based on the "PEIR Assessment Area" shown in blue on the location plan shown in Table 22-1. The current proposed Order Limits and Cable Route Corridor are within the Assessment Area and therefore the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment.

22.2 Site land location and description

22.2.1 The location and description of Cable Route Corridor 3-4 and Cable Route Corridor 3-4a is summarised in Table 22-1.

Table 22-1 Site location and description

Site location and description	
Site Location	Land from northwest boundary of Solar Development Site 4 extending westwards to the southeast boundary of Solar Development Site 3. Cable route runs from the east (NGR 452078 428513) to the west (NGR 452687 428288) crossing Woodlands Lane. 
Site Description	The Assessment Area covers an area of approximately 40.4 ha with Cable 6A approximately 865 m in length and Cable 6B approximately 450 m in length. The Assessment Area comprises agricultural fields bordered by hedgerows, occasional trees, drainage ditches, farms and residential buildings. Bowers House Farm is located at the eastern edge of the Assessment Area. Maspin Moor Drain runs through the eastern half of the Assessment Area, continuing along Pighill Nook Road.
Topography	The topography of the Assessment Area is relatively flat at an elevation of approximately 7 m OD to 8 m OD.
Adjacent and surrounding land use	Common Lane runs adjacent to the northern boundary of the Assessment Area and agricultural land is adjacent to all other Assessment Area boundaries. An unnamed drain runs along the northern Assessment Area boundary. The immediate surrounding area

Site location and description	
	is predominantly agricultural land. Harewood Cattery is located adjacent to the north of the Assessment Area.

22.3 Site history

22.3.1 Historical OS maps of the Cable Route Corridor 3-4 and 3-4a Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical OS maps are presented in Annex J.2.

22.3.2 The historical OS maps obtained from Groundsure date between 1852 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Assessment Area and surrounding area is presented in Table 22-2.

Table 22-2 Summary of site history

Map date	On Site	Off-Site
1850 - 1852	Assessment Area is predominantly undeveloped agricultural land comprising several fields with land drains. Bower's House Farm is present in the centre of the Assessment Area. Bower's Wood is present to the southwest of the Assessment Area. Pig Nook Road in present in the northeast of the Assessment Area.	Agricultural land.
1892	No change	No change
1908	No change	No change
1950	No change	Buildings present to the northeast of the Assessment Area.
1987	No change	Building removed to the northeast of the Assessment Area.
1995	Tank present in the northeast of the Assessment Area to the south of Hillam Common Lane. Bower's House Farm has expanded with new buildings present in the centre east of the Assessment Area.	Multiple new buildings present to the north of the Site (Shelton Fire, Mayfield and Hillam Lodge).
2002	New farm buildings present in the northeast of the Assessment Area.	No change
2007	No change	New residential houses present to the north of the Assessment Area.
2017	New barn present in the centre of the Assessment Area.	No change
2023	No change	No change

22.3.3 The earliest OS historical mapping from the 1850s shows the Cable Route Corridor 3-4 and 3-4a Assessment Area and surrounding area comprised undeveloped agricultural land with drainage channels and farms. Bower's House Farm was present in the centre of the Assessment Area from the mid-1800s until present. A number of farm dwelling were present adjacent to the Assessment Area from the 1950s.

22.3.4 The Assessment Area has continued to be used for agricultural land to present day.

22.4 Physical setting

22.4.1 The physical setting of the Cable Route Corridor 3-4 and 3-4a Assessment Area is summarised in Table 22-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 43 and Ref 44) provided in Annex J.1 and other sources of information summarised in Section 1.4.

Table 22-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex J.1) does not record any mapped Made Ground within 500 m of the Assessment Area. Although not shown on the BGS mapping, localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.
Superficial geology	The BGS map shows superficial deposits are present across the entire Assessment Area comprising Breighton Sand Formation (Sand) beneath a majority of the Assessment Area and the Hemingbrough Glaciolacustrine Formation (silty clay) located in the northeast and centre west of the Assessment Area.
Bedrock	The BGS map shows bedrock beneath the Assessment Area predominantly comprises the Sherwood Sandstone Group (sandstone) beneath the east of the Assessment Area. The Roxby Formation (calcareous mudstone) is present beneath the west of the Assessment Area. The Sherwood Sandstone Group is a red-brown sandstone, and the Roxby Formation is a reddish-brown mudstone and siltstone with subordinate sandstone (Ref 4).
Geological structures	No faulting is present on the Assessment Area; however, one northwest to southeast trending inferred fault is present immediately to the north.
BGS borehole records	There is one BGS borehole record within the Assessment Area. The borehole record indicates superficial deposits beneath the Assessment Area comprise variable layers of sand and clay to a depth of 18 m. Where encountered sandstone bedrock extends to

Physical characteristics	
	a depth of 25 m, limestone and marl bedrock extends to a depth of approximately 160 m, with Coal Measures beneath.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Assessment Area is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	The Mining Remediation Authority Map View was reviewed (Ref 13). The Assessment Area lies within a Coal Mining Reporting area. There are no records of past underground coal mining within 1.5 km of the Assessment Area. No past or probable shallow mine workings are recorded beneath the Assessment Area. No mine entries or development high risk areas are present within 250 m of the Assessment Area. As no mine workings beneath the Assessment Area have been identified the risk from coal mining is considered to be negligible.
Non-coal mining /minerals	No surface ground workings or evidence of other mineral extraction is recorded within 500 m of the Assessment Area in the Groundsure Report. No current extraction activities have been identified within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designation	The Breighton Sands Formation beneath the Assessment Area is designated as a Secondary A aquifer. The Hemingbrough Glaciolacustrine Formation beneath the Assessment Area is designated as an Unproductive aquifer. The Sherwood Sandstone Group bedrock is designated as a Principal aquifer. The Roxby Formation bedrock is designated as a Secondary B aquifer.
Source Protection Zone (SPZ)	The Assessment Area is not located within a groundwater SPZ and there are none within 250 m.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within 250 m of the Assessment Area.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions located within 250 m of the Assessment Area.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the Assessment Area (Ref 44): Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Maspin Moor Drain is located in the east of the Assessment Area and five unnamed drains are present across the Assessment Area.

Physical characteristics	
Surface Water (WFD) bodies	One WFD surface water body is located on the Assessment Area (Ref 44): The Fleet from Source to River Aire surface water body, water body ID GB104027062740. The overall rating is classified as moderate.
Licensed surface water abstractions	There are no active licensed surface water abstractions on or within 500 m of the Assessment Area.

22.5 Summary of environmental setting and regulated activities

22.5.1 The environmental setting and regulated activities at the Cable Route Corridor 3-4 and 3-4a Assessment Area and surrounding area is summarised in Table 22-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 44) provided in Annex J.1 and other sources of information summarised in Section 1.4.

Table 22-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within 250 m of the Assessment Area.
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Assessment Area.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Assessment Area.
Licensed waste sites	None within 250 m of the Assessment Area.
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Assessment Area. These comprise the storing of waste associated with farming activities.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Assessment Area is situated in an area of low UXO risk (Ref 12).

Environmental Setting	
Nitrate vulnerability	The Assessment Area is located in a NVZ.

22.6 Industrial land use

22.6.1 According to the Groundsure Report (Ref 44) there are no recent industrial land uses within the Assessment Area. A historical tank is recorded in the northeast of the Assessment Area by Harewood Cattery in 1995.

23 Cable Route Corridor 3-4 and Cable Route Corridor 3-4a Conceptual Site Model and Preliminary Risk Assessment

23.1 Approach

23.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

23.2 Conceptual site model

23.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

23.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland and roads;
2) Possible small-scale leaks of fuels and oils associated with agricultural use, historical tank and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area;

23.2.3 Off-Site:

1) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides; and
2) Potential Made Ground contamination associated with roads and farming activities in surrounding area;

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers
2) Residential and commercial neighbours on and adjacent to Assessment Area;
3) Surface watercourses including streams on Assessment Area;

4) Groundwater in the underlying Secondary superficial aquifer and Principal and Secondary bedrock aquifer;

5) Below ground infrastructure including buried concrete and utilities including cables; and

6) Public access via footpaths, roads and access tracks.

23.3 Preliminary Risk Assessment

23.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 3-4 and Cable Route Corridor 3-4a has been produced. The qualitative assessment of the possible linkages is provided in Table 23-1.

23.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

23.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

23.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

23.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

Table 23-1 Potential sources, pathways and receptors Cable Route Corridor 3-4 and Cable Route Corridor 3-4a

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, and railway	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate / Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be carried out to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						is not considered likely with the source and receptor likely to be localised.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area, historical tank and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate / Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be implemented for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.

23.4 Discussion of risk to future construction workers and off-site receptors

23.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

23.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

23.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

23.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

23.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified within the Assessment Area.

23.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

23.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

23.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

23.5 Preliminary Risk Assessment conclusions

23.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a

moderate/low risk to Secondary and Principal aquifers if Made Ground contamination or pollution incidents are encountered.

23.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

24 Cable Route Corridor 6-7 site information

24.1 Introduction

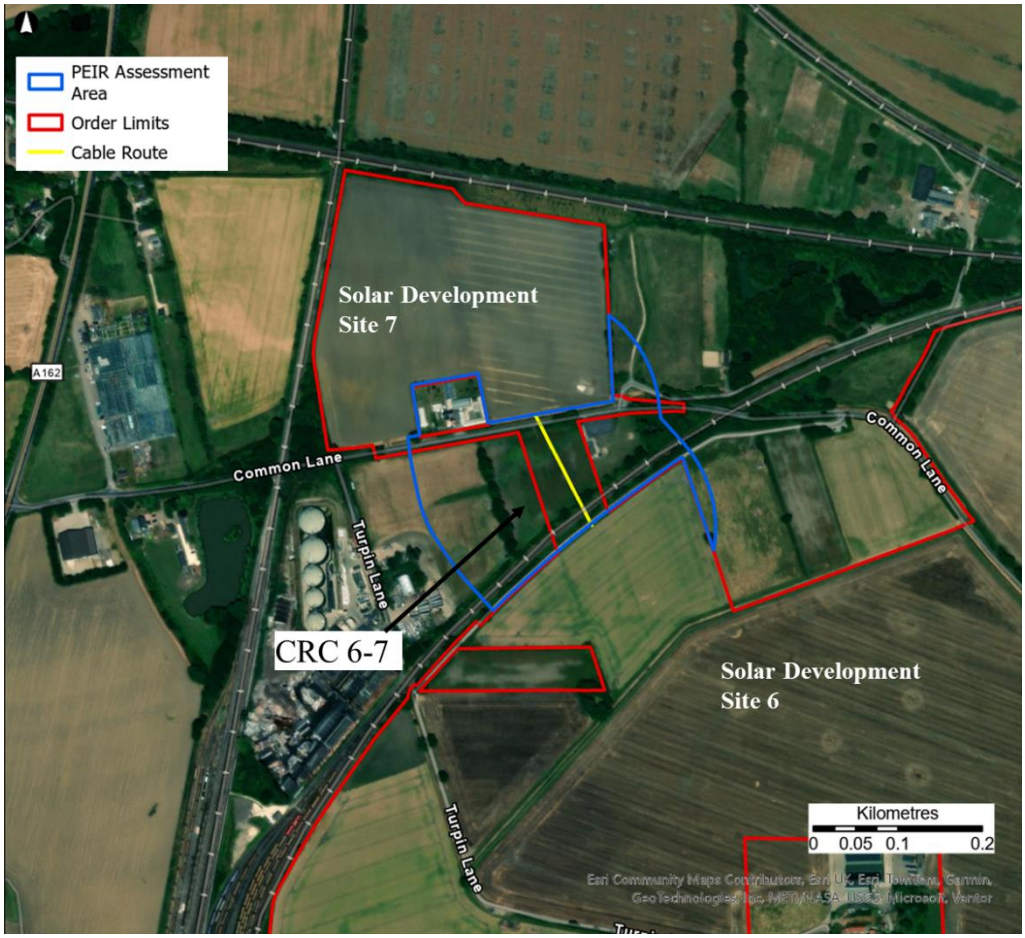
24.1.1 Desk study information relating to the Cable Route Corridor 6-7 between Solar Development Site 6 and Solar Development Site 7 is described in this section. Relevant Groundsure reports, historical maps are provided in Annex K.

24.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study was based on the “PEIR Assessment Area” shown in blue on the location plan shown in Table 24-1. The current proposed Order Limits and Cable Route Corridor are within the Assessment Area and therefore the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment.

24.2 Site land location and description

24.2.1 The location and description of Cable Route Corridor 6-7 is summarised in Table 24-1.

Table 24-1 Site location and description

Site location and description	
Site Location	Land (NGR 450792 431476) from Solar Development Site 6 at Milford Curve rail line extending northwest to Solar Development Site 7 crossing Common Lane and land at Woodhaven Kennels. 
Site Description	The Assessment Area covers an area of approximately 5.5 ha and approximately 155 m in length. The Assessment Area comprises agricultural fields, a kennels and cattery in the north and a livery yard in the northeast. The southern Assessment Area boundary runs along the Millford Curve railway track and Common Lane runs along the northern Assessment Area boundary. The Assessment Area is crossed by multiple unnamed drains in the centre and northeast. Multiple small ponds are present to the east and west of the Assessment Area. Agricultural land, roads, ponds, railway tracks and an anaerobic digestion (AD) plant and The Maltings Organic Treatment works are immediately adjacent to the west Assessment Area boundary.
Topography	The topography of the Assessment Area is relatively flat at an elevation of approximately 7 m OD to 8 m OD.
Adjacent and surrounding land use	Armur AD Plant and The Maltings Organic Treatment works are 70 m to the west of the Assessment Area. Gascoigne Wood Fishery with multiple small

Site location and description	
	ponds is 125 m to the northeast of the Assessment Area. The remainder of the immediate surrounding area is predominantly agricultural land.

24.3 Site history

24.3.1 Historical OS maps of the Cable Route Corridor 6-7 Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical OS maps are presented in Annex K.2.

24.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Assessment Area and surrounding area is presented in Table 24-2.

Table 24-2 Summary of site history

Map date	On Site	Off-Site
1850	Assessment Area comprised undeveloped agricultural land with drainage channels. A pit is present in the northeast. A railway track is present to the south of the Assessment Area and a road crosses the north of the Assessment Area from east to west.	Pits and railway tracks are present to the north and west of the Assessment Area. Agricultural land is present to the south.
1891	No change	A malt kiln and associated ponds and tanks is present at Milford East Junction to the southwest of the Assessment Area.
1908	No change	Filter beds and wells now present at the Malt Kiln to the southwest of the Assessment Area.
1950	A building is present in the north of the Assessment Area, where Woodhaven Boarding Kennels and Cattery is currently located.	New buildings are present at the Malt Kiln to the southwest of the Assessment Area.
1961	The pit in the northeast of the Assessment Area is now labelled as a pond. A well has been constructed at Wood Haven.	The pits to the west of the Assessment Area are now labelled as ponds. The brewery to the southwest of the Assessment Area has expanded and relabelled as a works.
1993	Wood Haven has been demolished and a new building constructed. The junction in the northeast of the Assessment Area has been reworked.	The Maltings to the southwest of the Assessment Area have been redeveloped and three tanks are present. New drains are present to the northwest of the Assessment Area adjacent to Common Lane.
1995	No change	No change

Map date	On Site	Off-Site
2002	A stable is present in the east of the Assessment Area.	No change
2017	Stable present in the east of the Assessment Area expanded with new buildings added. Site compound present in the northeast corner of the Assessment Area associated with embankment improvement works to the railway track north of the Assessment Area.	Expansion of Amur AD Plant to the southwest of the Assessment Area.
2024	No changes	Amur AD Plant stock and material handling yard has expanded to the northeast with new buildings added.

24.3.3 The earliest OS historical mapping from the 1850s shows the Cable Route Corridor 6-7 Assessment Area of Cable Route Corridor 10 and surrounding area comprised a combination of undeveloped agricultural land with drainage channels and woodland and a farm dwelling, now a kennels and cattery. A railway track and roadways have been present on the Assessment Area since the 1850s. A stable has been present in the east of the Assessment Area from 2002.

24.3.4 The Assessment Area has continued to be used for agricultural land to present day.

24.4 Physical setting

24.4.1 The physical setting of the Cable Route Corridor 6-7 Assessment Area is summarised in Table 24-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 44 and Ref 45) provided in Annex K.1 and other sources of information summarised in Section 1.4.

Table 24-3 Summary of physical characteristics

Physical characteristics	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex K.1) records mapped Made Ground within the Assessment Area associated with the railway in the south of the Assessment Area, the Woodhaven Boarding Kennels and cattery in the north and possible former pits in the east of the Assessment Area. Additionally Made Ground is present approximately 70 m to the west of the Assessment Area associated with the Amur AD plant and The Maltings Organic Treatment works. Although not shown on the BGS mapping, other localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.

Physical characteristics	
Superficial geology	The BGS map shows superficial deposits are present across the entire Assessment Area comprising the Hemingbrough Glaciolacustrine Formation (silty clay).
Bedrock	The BGS map shows bedrock beneath the Assessment Area is comprised entirely of the Brotherton Formation (dolomitic limestone), a grey dolomitic limestone with abundant Calcinema fossils (Ref 4).
Geological structures	No faults are recorded within 250 m of the Assessment Area.
BGS borehole records	One BGS borehole record is present in the northeast of the Assessment Area and one borehole record is located adjacent to the western Assessment Area boundary. The borehole records indicate superficial deposits beneath the Assessment Area comprise variable layers of sand and clay to a depth of 11 m to 16 m. Where encountered limestone and marl bedrock extends below 130 m, with coal measures below.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Assessment Area is located in an area where <1% of properties would exceed the Radon Action Level.
Coal mining	The Mining Remediation Authority Map View was reviewed (Ref 13). The Assessment Area lies within a Coal Mining Reporting area. There are no records of past underground coal mining beneath the Assessment Area; however, there are two records of historical coal mining approximately 60 m north and 130 m east of the Assessment Area associated with Peckfield Colliery and an unnamed colliery. Both collieries mined the Top Beeston coal seam at depths between 300 m and 310 m depth in 1976. No past or probable shallow mine workings are recorded beneath the Assessment Area. No mine entries or development high risk areas are present within 250 m of the Assessment Area. As the mine workings beneath the Assessment Area are at depth the risk from coal mining is considered to be low.
Non-coal mining /minerals	Evidence of surface ground workings is recorded in the Groundsure Report (Ref 45). Historical mapping between 1850 and 1957 shows evidence for surface ground workings in the form of a pit in the east of the Assessment Area. Surface ground working located approximately 40 m to the west of the Assessment Area are observed on historical mapping from 1891 until 1908. No current extraction activities have been identified within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designation	The Hemingbrough Glaciolacustrine Formation beneath the Assessment Area is designated as an Unproductive aquifer. The Brotherton Formation bedrock beneath the Assessment Area is designated as a Principal aquifer.

Physical characteristics	
Source Protection Zone (SPZ)	The Assessment Area is not located within a groundwater SPZ. There are two SPZs within 250m, a Zone 1 (inner catchment) SPZ is located approximately 50 m west of the Assessment Area boundary and a second Zone 1 SPZ is located approximately 180 m to the southwest.
Licensed groundwater abstractions	There are no active licensed groundwater abstractions located within the Assessment Area. There are two active abstractions within 500 m of the Assessment Area as follows: CARRIE Borehole 2, licence number 2/27/24/118, located 98 m to the west with a daily abstraction volume of 374 m3 and annual abstraction volume 136,380 m3. Groundwater abstracted is for general use relating to secondary category (medium loss). CARRIE, Borehole 3, licence number 2/27/24/118, located 128 m to the west with a daily abstraction volume of 374 m3 and annual abstraction volume 136,380 m3. Groundwater abstracted is for general use relating to secondary category (medium loss).
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions located within the Assessment Area or within 250m.
Groundwater Water Framework Directive (WFD) bodies	One WFD groundwater body is located beneath the Assessment Area (Ref 40): Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	An unnamed drain is present in the north and south of the Assessment Area. Common Drain is located in the centre of the Assessment Area. Low Common Drain is present adjacent to the north Assessment Area boundary. Fleet Dike is present adjacent to the south Assessment Area boundary.
Surface Water (WFD) bodies	The Assessment Area is located within one WFD surface water body catchment (Ref 40): The Selby Dam from Conf. Fox Dike and Carr Dike to Ouse, water body ID GB104027063620. The overall rating is classified as moderate.
Licensed surface water abstractions	There are no active licensed surface water abstractions located within the Assessment Area; however, one surface water abstraction is located approximately 97 m southeast of the Assessment Area, as follows: The licence is held by R T Batty & Son, licence number 2/27/24/017, and is used for spray irrigation. Water is abstracted from Lumby Common Drain and Milford Common Drain, the licence has a daily

Physical characteristics	
	abstraction volume of 291 m^3 and annual abstraction volume 5,818 m^3. There are no active surface water abstractions within 250 m of the Assessment Area.

24.5 Summary of environmental setting and regulated activities

24.5.1 The environmental setting and regulated activities at the Cable Route Corridor 6-7 Assessment Area and surrounding area is summarised in Table 24-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 42) provided in Annex K.1 and other sources of information summarised in Section 1.4.

Table 24-4 Summary of other environmental information

Environmental Setting	
Environment Agency records	
Discharge consents	There are no active licensed discharge consents within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within the Assessment Area. A further two incidents are recorded within 250 m of the Assessment Area: 123 m west in 2023, release of odour resulted in no impact to water and land (category 4) and significant impact to air (category 2); and 162 m west in 2012, release of unidentified pollutant resulted in a significant impact to water (category 2) and no impact (category 4) to air and land.
Licensed industrial activities	There are no licensed industrial activities within the Assessment Area. There are eight current environmental permits held by The Maltings Organic Treatment Ltd located 160 m to the southwest of the Assessment Area. These relate to the disposal and recovery of non-hazardous waste involving biological treatment and treatment of wastewater. Two environmental permits are held by AB Agri Ltd located 148 m southwest of the Assessment Area for recovery and disposal of non-hazardous waste involving biological treatment.
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Assessment Area.
Licensed waste sites	None within 250 m of the Assessment Area. There are three waste licences relating to the Maltings Organic Treatment facility 160 m to the southwest. The waste licences are for physical treatment and compositing facilities (licence numbers MAL003, 659025 and MAL035 (Ref 46).
Waste exemptions	Multiple active waste exemptions sites are located on and adjacent to the Assessment Area. These comprise the storing, disposing of and using of

Environmental Setting	
	waste associated with farming activities and using waste in construction at the Maltings Organic Treatment site.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Assessment Area is situated in an area of low UXO risk (Ref 15).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

24.6 Industrial land use

24.6.1 According to the Groundsure Report (Ref 46) there are no recent industrial land uses within the Cable Route Corridor 6-7 Assessment Area. Offsite industrial land uses include Amur AD Plant and The Maltings Organic Treatment Facility which are located approximately 70 m to the southwest of the Assessment Area.

25 Cable Route Corridor 6-7 Conceptual Site Model and Preliminary Risk Assessment

25.1 Approach

25.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

25.2 Conceptual site model

25.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

25.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland and potential backfilled ponds and pits and railways;
2) Possible small-scale leaks of fuels and oils associated with agricultural use and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area;

Off-Site:

4) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides;
5) Potential localised Made Ground contamination from rail line and old pits (potentially backfilled) located adjacent the west and north of the Assessment Area;
6) Possible small-scale leaks of fuels and oils associated with adjacent agricultural use, roads, railway tracks and industrial land uses; and.
7) Malting Organic Treatment Recycling Centre and Amur AD Plant Biological Waste Treatment 70 m to the southwest.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers during development;

2) Residential and commercial neighbours on and adjacent to Assessment Area;
3) Future site users (maintenance workers) of the Proposed Development;
4) Surface watercourses including ponds and streams on and adjacent to Assessment Area;
5) Groundwater in the underlying Secondary superficial aquifer and Principal bedrock aquifer;
6) Licensed groundwater abstractions off-site to the west for general farming and spray irrigation and are assigned SPZ1 80 m and 210 m to the southwest for general use;
7) Licensed surface water abstraction off-site for spray irrigation use;
8) Below ground infrastructure including buried concrete and utilities including cables; and
9) Public access via roads and access tracks.

25.3 Preliminary Risk Assessment

25.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 6-7 has been produced. The qualitative assessment of the possible linkages is provided in Table 25-1.

25.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

25.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

25.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

25.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

25.3.6 Farm dwellings are included within the Assessment Area boundary; however, the Cable Route Corridor will not extend onto these properties for these to represent a source. They are however included in the potential receptors.

Table 25-1 Potential sources, pathways and receptors Cable Route Corridor 6-7

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, railways, roads, and potential backfilled ponds and pits.	Dermal contact, ingestion or inhalation of soil or dust	Public access via roads and access tracks, farm dwellings	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Low	Moderate/ Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be carried out to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is not considered likely with the source and receptor likely to be localised.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of contamination have been identified. A contaminant linkage is not considered likely with the source likely to be localised. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area and roads	Dermal contact, ingestion or inhalation	Public access via roads and access tracks. farm dwellings	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Low	Moderate/ Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be implemented for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
		Licensed water abstractions	Medium	Unlikely	Low	No significant sources of fuels or oils have been identified. A contaminant linkage is not considered likely with the source likely to be localised.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
Historic elevated pesticides and herbicides from on and offsite sources	Dermal contact, ingestion or inhalation of soil or dust	Public access via roads and access tracks, farm dwellings	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer, SPZ1 (off-site)	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
		Licensed water abstractions	Medium	Unlikely	Low	Sources of contamination which could migrate and leach to cause significant harm is considered low.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].

25.4 Discussion of risk to future construction workers and off-site receptors

25.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

25.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

25.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

25.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

25.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Assessment Area.

25.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

25.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

25.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

25.5 Preliminary Risk Assessment conclusions

25.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a

moderate/low risk to Secondary and Principal aquifers is Made Ground contamination or pollution incidents are encountered.

25.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

26 Cable Route Corridor 4-POC site information

26.1 Introduction

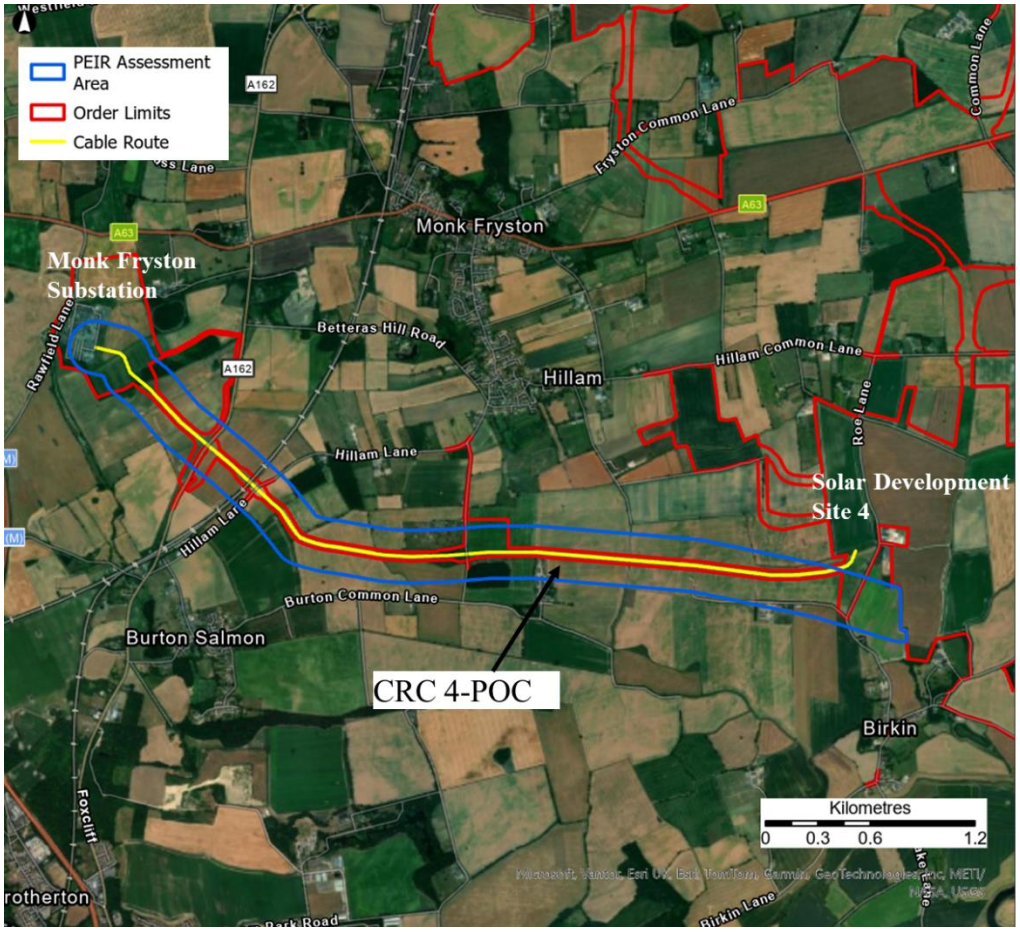
26.1.1 Desk study information relating to the Cable Route Corridor 4-POC between Solar Development Site 4 and Monk Fryston Substation is described in this section. Relevant Groundsure reports, historical maps are provided in Annex L.

26.1.2 This desk study was completed at PEIR stage and has not been updated for the ES. The Assessment Area considered in this study was based on the "PEIR Assessment Area" shown in blue on the location plan shown in Table 26-1. The current proposed Order Limits and Cable Route Corridor are within the Assessment Area and therefore the changes to the assessment boundaries since PEIR do not change the overall conclusions of this assessment.

26.2 Site land location and description

26.2.1 The location and description of Cable Route Corridor 4-POC is summarised in Table 26-1.

Table 26-1 Site location and description

Site location and description	
Site location	Land from Solar Development Site 4 (NGR 453137 427509) extending westwards to Monk Fryston substation (NGR 448510 429062) crossing Roe Lane, Fairfield lane, Hillam Lane, railway line and A162. 
Site description	The Assessment Area covers an area of approximately 153.5 ha and is approximately 5.2 km in length. The land uses within the Assessment Area are predominantly agricultural land, local farm holdings and a wind turbine in the east of the Assessment Area. The Assessment Area is crossed by multiple roads including the A162, rail lines and overhead utility lines.
Topography	The topography of the Assessment Area is relatively flat ranging from 8 to 9 m OD to the east of Hillam Lane then rises to the west up to 37 m OD.
Adjacent and surrounding land use	Land adjacent to and surround the Assessment Area comprises farms, agricultural land, roads, woodland, drainage ditches and ponds.

26.3 Site history

26.3.1 Historical OS maps of the Cable Route Corridor 4-POC Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical OS maps are presented in Annex L.2.

26.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Assessment Area and surrounding area is presented in Table 26-2.

Table 26-2 Summary of site history

Map date	On Site	Off-Site
1850	Assessment Area predominantly comprises undeveloped agricultural land with drains and footpaths. Roe Lane, Fairfield Lane, Hillam Lane, A162 and a railway line pre-date the first historical map. A quarry is located along Hillam Lane. North Field House is located in the east of the Assessment Area.	The surrounding area predominantly comprises agricultural land with drains, ponds and roads in addition to several farm buildings and common houses. Chantry Plantations is located to the south of the Assessment Area and there are additional woodland areas located to the east of the Assessment Area. New Quarry and Betteras Hill limestone quarries are located to the south and north of the Assessment Area boundary respectively, along the A162. There is an unnamed limestone quarry located along Rawfield Lane to the northwest of the Assessment Area.
1892	The quarry located along Hillam Lane is mapped as 'old'. There is a small pond located to the northwest of the Assessment Area.	A stream flowing from east to west is mapped north of the central Assessment Area. New Quarry is mapped as disused.
1908	Expansion of the railway lines.	Betteras Hill Quarry is mapped as disused. Chantry Plantations has been partially cleared. The unnamed limestone quarry located along Rawfield Lane to the northwest of the Assessment Area is now mapped as 'old'.
1950	Two electricity transmission lines have been constructed across the Assessment Area. Bywater Wood has been partially cleared.	Chantry Plantations has been cleared. The electricity transmission lines also cross the surrounding area.
1967 to 1968	The electricity transmission lines have been relocated but still cross the Assessment Area. A large electrical transformer station is constructed in the northwest corner of the Assessment Area in an area previously occupied by woodland. Paddock plantations is no longer mapped. Additional buildings associated with Burton Farm on the Assessment Area. The quarry located along Hillam Lane is no longer depicted.	The electricity transmission lines also cross the surrounding area. Additional buildings associated with Burton Farm have been constructed. A Tennis court and pavilion is now depicted.
1982 to 1987	The electricity transmission lines are no longer depicted on Assessment Area.	The electricity transmission lines have been relocated.

Map date	On Site	Off-Site
1993 to 1995	Additional buildings associated with Northfield Farm located to the east of the Assessment Area.	No significant changes
2024	No significant changes	No significant changes.

26.3.3 The earliest OS historical mapping from the 1850s shows the Assessment Area of Cable Route Corridor 8 and surrounding area comprised a combination of undeveloped agricultural land with drainage channels, woodland/plantations and farm buildings. Roe Lane, Fairfield Lane, Hillam Lane, A162 and a railway line pre-date the first historical map. Limestone quarries are depicted both on and offsite from the 1850s and are all shown to be disused by 1968.

26.3.4 Electricity transmission cables were constructed both within the Assessment Area and the surrounding area in the 1950s and have been repositioned through history until they are no longer depicted in the 1980s. In the late 1960s a large electrical transformer station (Monk Fryston substation) was constructed in the northwest corner of the Assessment Area and is still present on Assessment Area to date. Majority of the Assessment Area has continued to be used for agricultural land to present day.

26.4 Physical setting

26.4.1 The physical setting of the Cable Route Corridor 4-POC Assessment Area is summarised in Table 26-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 47 and Ref 48) provided in Annex L.1 and other sources of information summarised in Section 1.4.

Table 26-3 Summary of physical setting

Physical setting	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Report (Annex L.1) records localised areas of Made Ground associated with the rail line which cross the west of the Assessment Area and Monk Fryston substation to the west. Although not shown on the BGS mapping, localised areas of Made Ground associated with historical and current land uses, such as agricultural activities may be present within the Assessment Area.
Superficial geology	Superficial deposits are present along a majority of the Assessment Area. From east to west superficial deposits comprised the Breighton Sand Formation (sand), Hemingbrough Glaciolacustrine Formation (silty clay) and the Harrogate Till Formation (slightly sandy clay with large local sandstone blocks).
Bedrock geology	The Sherwood Sandstone Group (sandstone) is present beneath the east of the Assessment Area, the Brotherton Formation (dolomitic limestone) is

Physical setting	
	present beneath the western half of the Assessment Area. The Roxby Formation (calcareous mudstone) is present beneath the centre east and west of the Assessment Area.
Borehole records	There are ten BGS borehole records within the Assessment Area and a further seven non-confidential borehole records within 250 m. The borehole records indicate superficial deposits beneath the Assessment Area comprise variable layers of sand, clay and silty clay between 6 m and 20 m depth overlying mudstone and limestone bedrock.
Geological structures	Four inferred faults are present across the Assessment Area. Three of the faults trend northeast to southwest, while the fourth fault is trend northwest to southeast.
Radon	The Assessment Area is located out with a Radon Affected Area, where the Health Protection Agency has estimated that between 1% and 3% of properties would exceed the Radon Action Level.
Coal mining	The Mining Remediation Authority Map Viewer was reviewed (Ref 13). The Assessment Area lies within a Coal Mining Reporting and area of past underground workings. The Assessment Area is not within a development high risk area and there are no mine entries, or past or probable shallow coal mining workings are recorded beneath the Assessment Area. As the mine workings beneath the Assessment Area are at depth the risk from coal mining is considered to be low.
Non-coal mining / minerals	Historical surface workings, New Quarry, Betteras Hill Quarry are present in the centre of the Assessment Area adjacent to the A162. Old Quarry is present adjacent to Hillam Lane and a former Limestone Quarry adjacent to Rawfield Lane. No current extraction activities have been identified within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designations	The Breighton Sand Formation is designated as a Secondary A aquifer. The Harrogate Till Formation is designated as a Secondary undifferentiated aquifer. The Hemingbrough Glaciolacustrine Formation is designated as an unproductive aquifer. The Sherwood Sandstone Group and Brotherton Formation bedrock geology is designated as a Principal aquifer. The Roxby Formation is designated as a Secondary B aquifer.
Source protection zones (SPZ)	No SPZs located on or within 250 m of the Assessment Area.
Licensed groundwater abstractions	No active groundwater abstractions are located on or within 250 m of the Assessment Area.
Unlicensed groundwater abstractions	No active unlicensed groundwater abstractions are located within 250 m of the Assessment Area.

Physical setting	
Groundwater Water Framework Directive (WFD) bodies	Two WFD groundwater bodies are present beneath the Assessment Area: Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900. The overall rating is classified as poor. Aire & Don Sherwood Sandstone groundwater body, water body ID GB40401G701000. The overall rating is classified as poor.
Hydrology	
Surface Water Courses and Drainage	Several land drains and streams cross the Assessment Area, particularly in the east where the topography is lower.
Surface water bodies and catchments	The Assessment Area is located across two Water Framework Directive (WFD) surface water body catchments: The Fleet from Source to River Aire, water body ID: GB104027062740. Operational catchment Aire Lower and management catchment Aire and Calder. The overall rating is classified as moderate. The Aire from River Calder to River Ouse, water body ID: GB104027062760. Operational catchment Aire Lower and management catchment Aire and Calder. The overall rating is classified as moderate.
Licensed surface water abstractions	No active surface water abstractions are located on or within 250 m of the Assessment Area.

26.5 Summary of environmental setting and regulated activities

26.5.1 The environmental setting and regulated activities at the Cable Route Corridor 4-POC Assessment Area and surrounding area is summarised in Table 26-4 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 48) provided in Annex L.1 and other sources of information summarised in Section 1.4.

Table 26-4 Summary of other environmental information

Environmental setting	
Environment Agency records	
Discharge consents	There are no active discharge consents within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within the Assessment Area. There is one recorded pollution incident within 250 m of the Assessment Area: 175 m south west of the Assessment Area, incident occurred in April 2004, pollutant was specific waste materials – tyres and resulted in a Category 3 (minor) impact to water, Category 1 (major) impact to land and no impact to air.
Licensed industrial activities	There are no licensed industrial activities within 250 m of the Assessment Area.

Environmental setting	
Waste management facilities and historical landfill	
Active or historical landfill	None within 250 m of the Assessment Area.
Licensed waste sites	None within 250 m of the Assessment Area.
Waste exemptions	Multiple waste exemptions are located on and adjacent to the Assessment Area. These typically relate to the storage and burning of waste associated with farming activities.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	The Zetica UXO online bomb risk map indicates that the Assessment Area is situated in an area of low UXO risk (Ref 12).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

26.6 Industrial land uses

26.6.1 According to the Groundsure Report (Ref 48) recent industrial land uses within the Cable Route Corridor 4-POC Assessment Area include the wind turbine in the east of the Assessment Area, which has an associated electricity substation, and the Monk Fryston substation to the west of the Assessment Area.

27 Cable Route Corridor 4-POC Conceptual Site Model and Preliminary Risk Assessment

27.1 Approach

27.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

27.2 Conceptual site model

27.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

27.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland, substation, railways, roads, and potential backfilled ponds, pits and quarries;
2) Possible small-scale leaks of fuels and oils associated with agricultural use, substation and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area;

Off-Site:

4) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides; and
5) Potential Made Ground contamination associated with rail lines, farming activities, and infilled pits, quarries and ponds in surrounding area.

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers
2) Residential and commercial neighbours on and adjacent to Assessment Area;

3) Surface watercourses including streams and ponds within the Assessment Area;
4) Groundwater in the underlying Secondary superficial aquifers, Principal and Secondary bedrock aquifer;
5) Below ground infrastructure including buried concrete and utilities including cables; and
6) Public access via footpaths, roads and access tracks.

27.3 Preliminary Risk Assessment

27.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 4-POC has been produced. The qualitative assessment of the possible linkages is provided in Table 27-1.

27.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

27.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

27.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

27.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

27.3.6 Farm dwellings and other properties are included within the Assessment Area boundary; however, the Cable Route Corridor will not extend onto these properties for these to represent a source. They are however included in the potential receptors.

Table 27-1 Potential sources, pathways and receptors Cable Route Corridor 4-POC

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland, substation, railway, roads, and potential backfilled ponds, pits and quarries	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate/ Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be carried out to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is not considered likely with the source and receptor likely to be localised.
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area, substation and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate/ Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be developed for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
Historic elevated pesticides and herbicides from on and offsite sources	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.

27.4 Discussion of risk to future construction workers and off-site receptors

27.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

27.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

27.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

27.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

27.4.5 The risk to construction workers during excavation and construction in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Assessment Area.

27.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

27.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

27.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

27.5 Preliminary Risk Assessment conclusions

27.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a moderate/low risk to Secondary and Principal aquifers if Made Ground contamination or pollution incidents are encountered.

27.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

28 Cable Route Corridor 1-4a site information

28.1 Introduction

28.1.1 Desk study information relating to the Cable Route Corridor 1-4a between Solar Development Site 1 and Solar Development Site 4 is described in this section.

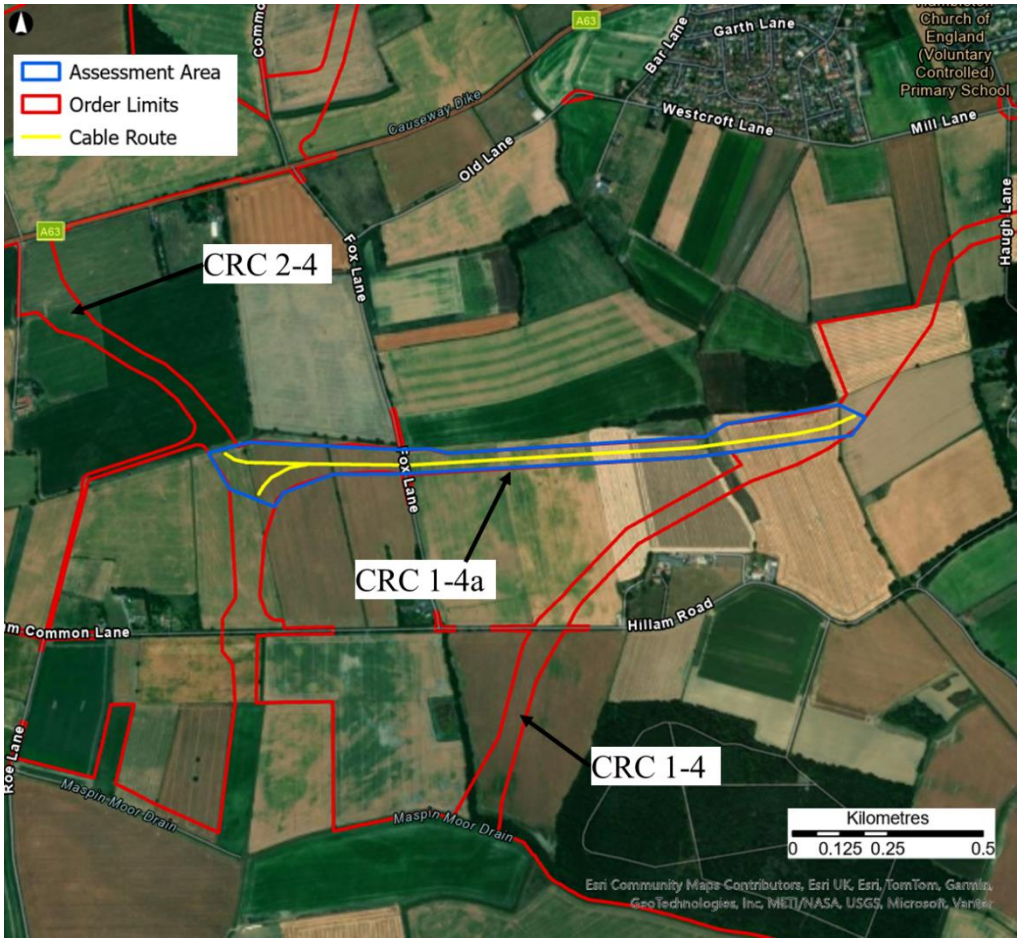
28.1.2 A desk study was not completed for this Cable Route Corridor at PEIR. This Cable Route Corridor was introduced at ES Stage. A separate Groundsure Report was not obtained for this Cable Route Corridor as it falls within the scope of the information already obtained. This desk study has therefore been produced using the Groundsure Reports provided in Annex G and J and historical maps are provided in Annex M.

28.2 Site land location and description

28.2.1 The location and description of Cable Route Corridor 1-4a is summarised in Table 28-1.

Table 28-1 Site location and description

Site location and description	
Site Location	Land from CRC 2-4 (NGR 453460 429474) north of Hillam Common Lane extending east to CRC 1-4 (NGR 455111 429575) north of Hillam Road.



Site location and description	
Site description	The Assessment Area covers an area of approximately 12 ha with Cable Route Corridor 1D approximately 1.8 km in length. A review of OS mapping and aerial imagery indicates the Assessment Area is predominantly agricultural land comprising fields, hedges and occasional trees. The Assessment Area is crossed by several land drains in the west and Fox Lane.
Topography	The topography of the Assessment Area is relatively flat at an elevation of approximately 7 to 8 m OD.
Adjacent and surrounding land use	Land adjacent to and surrounding the Assessment Area comprises farms, agricultural land, roads and land drains. The village of Hambleton is approximately 800 m to the northeast.

28.3 Site history

28.3.1 Historical OS maps of the Cable Route Corridor 1-4a Assessment Area and wider environment were provided in GIS format by Groundsure and aerial images from Google Earth Pro were also reviewed. Copies of selected historical OS maps are presented in Annex M.1.

28.3.2 The historical OS maps obtained from Groundsure date between 1850 and 1995. A summary of the main features identified on the historical maps and Google Earth aerial imagery within the Assessment Area and surrounding area is presented in Table 28-2.

Table 28-2 Summary of site history

Map date	On Site	Off-Site
1850	The Assessment Area comprises agricultural land, hedgerows, trees, drains and footpaths. Maspin Moor Lane crosses the Assessment Area.	The surrounding area predominantly comprises agricultural land. Woodland named as Lady Carr's Plantation is located immediately north of the eastern end of the Assessment Area.
1892	Maspin Moor Lane has been renamed as Fox Lane.	No changes
1950	No changes	A northeast-southwest trending electricity transmission line runs approximately 70 m to the southeast.
1987	No changes	Electricity transmission line no longer marked on map
2002	No changes	No changes
2007	Shallow excavation in east of the Assessment Area which appears to be for a below ground pipeline	No changes
2024	No changes	No changes

28.3.3 The earliest OS historical mapping from the 1850s shows the Assessment Area of Cable Route Corridor 1D Alternative and surrounding area comprised largely undeveloped agricultural land with drainage channels. Fox Lane (formerly known as Maspin Moor Lane) which crosses the Assessment Areas pre-dates the first historical map. By the 1950s, a northeast-southwest trending electricity line has been constructed within 70 m of the Assessment Area. The Assessment Area remained relatively unchanged from the mid-1960s, with the exception of excavation in the east for the construction of a pipeline.

28.4 Physical setting

28.4.1 The physical setting of the Cable Route Corridor 1-4a Assessment Area is summarised in Table 28-3 and has been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 37 and Ref 40) provided in Annex G.1 and H.1 and other sources of information summarised in Section 1.4.

Table 28-3 Summary of physical setting

Physical setting	
Ground conditions	
Made/artificial ground	The 1:10,000 BGS geology map presented in the Groundsure Reports does not record Made Ground within the Assessment Area. Although not shown on the BGS mapping, localised areas of Made Ground associated with existing roads and agricultural activities may be present within the Assessment Area.
Superficial geology	The BGS map shows superficial deposits are present beneath the entire Assessment Area comprising the Breighton Sand Formation (sand) and Hemingbrough Glaciolacustrine Formation (silty clay).
Bedrock	The Sherwood Sandstone Group (sandstone) is present beneath the Assessment Area.
Geological structures	One inferred faults is present in the east of the Assessment Area. The fault trends northeast to southwest.
Borehole records	There are no BGS borehole records are available within the Assessment Area. The nearest available borehole 350 m to the south indicates that the superficial deposits comprise variable layers of clay, silt and sand which are 20 m thick.
Ground cavities and sinkholes	No records of natural cavities are recorded within data provided in the Groundsure report.
Radon	The Assessment Area is located out with a Radon Affected Area, where the Health Protection Agency has estimated that less than 1% of properties would exceed the Radon Action Level.
Coal mining	The Assessment Area lies within the Coal Mining Reporting Area, but is not within a development high risk area or area of past or probable shallow coal mining workings; therefore, there is a minor risk from coal mining (Ref 13). There are no records of past underground coal mining beneath the Assessment Area.

Physical setting	
Non-coal mining / minerals	There are no records of non-coal mining activities within the Assessment Area or surrounding area.
Hydrogeology	
Aquifer designations	The Breighton Sand Formation is designated as a Secondary A aquifer. The Hemingbrough Glaciolacustrine Formation is designated as an unproductive aquifer. The Sherwood Sandstone bedrock is designated as a Principal aquifer.
Source protection zones (SPZ)	No SPZs are located within the Assessment Area boundary or within 250m.
Licensed groundwater abstractions	There are no active groundwater abstractions within the Assessment Area or within 250 m.
Unlicensed groundwater abstractions	There are no active unlicensed groundwater abstractions within the Assessment Area or within 250 m.
Groundwater Water Framework Directive (WFD) bodies	Three WFD groundwater bodies are present beneath the Assessment Area: Aire & Don Magnesian Limestone groundwater body, water body ID GB40401G700900. The overall rating classified as poor. Wharfe Magnesian Limestone groundwater body, water body ID GB40401G701100. The overall rating classified as poor. Wharfe & Lower Ouse Sherwood Sandstone groundwater body, water body ID GB40401G702400. The overall rating classified as poor.
Hydrology	
Surface waterbodies	Approximately three surface water bodies, comprising land drains, are in the west of the Assessment Area.
Surface water bodies and catchments	The Assessment Area is located across two Water Framework Directive (WFD) surface water body catchments: Selby Dam from Conf. Fox Dike and Carr Dike to Ouse, water body ID: GB104027063620. Operational catchment Ouse Lower Yorkshire and management catchment Wharfe and Ouse Lower; and The Fleet from Source to River Aire, water body ID: GB104027062740. Operational catchment Aire Lower and management catchment Aire and Calder. Both of these surface water bodies had moderate overall rating.
Licensed surface water abstractions	There are no active surface water abstractions located within the Assessment Area or within 250 m.

28.5 Summary of environmental setting and regulated activities

28.5.1 The environmental setting and regulated activities at the Cable Route Corridor 1-4a Assessment Area and surrounding area is summarised in Table 28-4 and has

been assessed by making reference to the information provided in the Groundsure Insights Reports (Ref 38) provided in Annex G.1 and H.1 and other sources of information summarised in Section 1.4.

Table 28-4 Summary of environmental setting

Environmental setting	
Environment Agency records	
Discharge consents	No licensed discharges are located on or within 250 m of the Assessment Area.
Pollution incident register	No pollution incidents are recorded within 250 m of the Assessment Area.
Licensed industrial activities	No licensed industrial activities are recorded within 250 m of the Assessment Area.
Waste management facilities and historical landfill	
Active or historical landfill	No active or historical landfill sites are located within 250 m of the Assessment Area.
Licensed waste sites	No licensed waste sites are located within 250 m of the Assessment Area.
Waste exemptions	No active waste exemptions are located within 250 m of the Assessment Area.
Protected areas	
Sensitive sites (within 250 m)	None within 250 m of the Assessment Area.
Unexploded ordnance	Zetica UXO maps show a low risk of unexploded ordnance (Ref 15).
Nitrate vulnerability	The Assessment Area is located in a NVZ.

28.6 Industrial land uses

28.6.1 According to the Groundsure Report (Ref 38) there are no recent industrial land uses recorded within the Cable Route Corridor 1-4a Assessment Area or within 250 m.

29 Cable Route Corridor 1-4a Conceptual Site Model and Preliminary Risk Assessment

29.1 Approach

29.1.1 The approach to this PRA is described in Section 3.1 and the risk assessment framework used is described in Annex N.

29.2 Conceptual site model

29.2.1 The potential sources of contamination, potential pathways and receptors are described below.

Potential contamination sources

29.2.2 On Site:

1) Potential localised Made Ground contamination associated with the farmland and roads;
2) Possible small-scale leaks of fuels and oils associated with agricultural use and roads;
3) Historic elevated pesticides and herbicides associated with agricultural use of the Assessment Area.

Off-Site:

4) Farmland in the wider surrounding area may be a source of elevated nutrients, pesticides and herbicides; and
5) Potential Made Ground contamination associated with roads and farming activities in surrounding area;

Potential pathways

1) Dermal contact, ingestion or inhalation of soil or dust;
2) Inhalation of gases or vapours;
3) Leaching and migration of contaminants in groundwater; and
4) Direct contact with soils;

Potential receptors

1) Construction workers
2) Surface watercourses including drains within the Assessment Area;
3) Groundwater in the underlying Secondary superficial aquifers and Principal bedrock aquifer;

4) Below ground infrastructure including buried concrete and utilities including cables pipes; and

5) Public access via footpaths, roads and access tracks.

29.3 Preliminary Risk Assessment

29.3.1 An initial CSM, which illustrates the potential pollutant linkages that may be present within Cable Route Corridor 1-4a has been produced. The qualitative assessment of the possible linkages is provided in Table 29-1.

29.3.2 The level of risk is determined based on the current condition of the Assessment Area (i.e. the effects of mitigation measures are not included).

29.3.3 The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. The PRA undertaken in this section does not consider acute linkages regarding human health exposure for construction and maintenance worker. It focuses on chronic risks to future end users and off-site receptors. These acute linkages will be managed by appropriate health and safety measures identified in the detailed versions of the management plans produced pursuant to the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

29.3.4 The proposals include buried electricity cables only. There are no anticipated buried concrete or water supply pipes related to the proposed electricity cable. Electricity cables are not considered to be at risk from contaminated land and therefore are not included in the PRA.

29.3.5 There are no confined spaces as part of the development and therefore there is no human receptor to a build-up of hazardous ground gas.

Table 29-1 Potential sources, pathways and receptors Cable Route Corridor 1-4a

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Potential localised Made Ground contamination associated with the farmland and roads	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Based on information reviewed there are not considered to be any significant sources of contamination, and the exposure times would be limited. During construction, work areas will be segregated from public footpaths and other access routes to prevent public access. The risk will be lower post construction as unforeseen contamination encountered during the construction phase would be dealt with appropriately through a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate/ Low	No significant sources of contamination have been identified. However, given the sensitivity of the receptor beneath the Assessment Area, a discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be carried out to ensure the proposed Cable Route Corridor does not pose a potential pathway. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present across the Assessment Area; however, a contaminant linkage is not considered likely with the source and receptor likely to be localised.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
Possible small-scale spills/leaks of fuels associated with the agricultural use of the Assessment Area and roads	Dermal contact, ingestion or inhalation	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Leaks or spills of fuels could adversely affect health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Low	Moderate/ Low	Significant sources of hydrocarbons to cause pollution are considered very unlikely. A discovery strategy for managing unexpected contamination, as set out in the oCEMP [**EN0110012/APP/LVS/07.02**], should be developed for the works to mitigate these risks. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Low	Low	Surface watercourses are present in the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.
Historic elevated pesticides and herbicides	Dermal contact, ingestion or inhalation of soil or dust	Public access via footpaths, roads and access tracks	Mild	Unlikely	Very Low	Elevated pesticides and herbicides could cause adverse effects to health. However, the likelihood of contact and limited exposure time suggests a very low potential risk to the public.
	Leaching and migration	Secondary Aquifer, Principal Aquifer	Medium	Unlikely	Low	Contaminants can be mobilised via shallow groundwater. Groundwater levels may be shallow, based on the streams present across the Assessment Area. Given the anticipated geology groundwater is likely to be perched on cohesive layers. The potential

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						sources are considered to be isolated and minor and unlikely to present a risk to controlled waters. During construction underground cabling methods that minimise disruption to ground and an appropriate piling methodology that minimises the likelihood of creating a pollution pathway to groundwater will be used as detailed in the oCEMP [**EN0110012/APP/LVS/07.02**].
		Surface waters	Mild	Unlikely	Very Low	Surface watercourses are present on the Assessment Area. However, sources of contamination which could migrate and leach to cause significant harm is considered low.

29.4 Discussion of risk to future construction workers and off-site receptors

29.4.1 The Proposed Development construction works will be undertaken in compliance with CDM Regulations 2015.

29.4.2 Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, maintenance staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase or during operation and maintenance.

29.4.3 Acute risks to construction and maintenance workers will be managed by appropriate health and safety measures as identified in the oCEMP [**EN0110012/APP/LVS/07.02**], oOEMP [**EN0110012/APP/LVS/07.03**], and oDEMP [**EN0110012/APP/LVS/07.04**].

29.4.4 The greatest potential for generation of dust will be during the site works and therefore dust generation should be kept to a minimum in accordance with general good practice to reduce this risk. Further discussion of mitigation measures for dust control during construction is provide in Appendix 16.1: Construction Dust Assessment (ES Volume 3) [**EN0110012/APP/LVS/06.03.16.01**].

29.4.5 The risk to construction workers during excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Assessment Area.

29.4.6 Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through specialist advice on good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also minimise the degree of potential dust migration off-site.

29.4.7 Risks to maintenance workers during operation of the Proposed Development will be managed by appropriate health and safety measures identified in the OEMP which would take account of the conclusions of this assessment.

29.4.8 Risks to workers during decommissioning of the Proposed Development will be managed by appropriate health and safety measures identified in the DEMP which would take account of the conclusions of this assessment.

29.5 Preliminary Risk Assessment conclusions

29.5.1 Given the nature of the Proposed Development and current and historical land uses, there is considered to be a typically low risk from contaminated land to human health or controlled waters receptors. There is potential for a

moderate/low risk to Secondary and Principal aquifers if Made Ground contamination or pollution incidents are encountered.

29.5.2 Potential source of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. A ground investigation is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination as set out in the oCEMP [**EN0110012/APP/LVS/07.02**] is recommended to be developed for the proposed Cable Route Corridor.

30 Summary and Recommendations

30.1 Summary

30.1.1 This report presents a review of ground conditions information for each of the Solar Development Sites and Cable Route Corridors for the Proposed Development.

30.1.2 Ground conditions beneath the Assessment Area comprise a thick sequence of Superficial Deposits anticipated to comprise variable layers of sand, clay and silt. The bedrock strata comprise the Sherwood Sandstone Group, Roxby Formation and Brotherton Formation.

30.1.3 The Assessment Area is crossed by surface water courses including the River Ouse and multiple streams and land drains.

30.1.4 Shallow groundwater may be encountered beneath the Assessment Area, perched on lower permeability layers within the underlying superficial deposits. The Sherwood Sandstone bedrock beneath the Assessment Area is designated as a Principal aquifer and the Roxby Formation and Brotherton Formation bedrock and superficial deposits as Secondary aquifers.

30.1.5 There are multiple active groundwater and surface water abstractions within the Assessment Area and in the surrounding area, which are generally for farming and spray irrigation use. Cable Route Corridor 1-4 crosses a groundwater source protection zone SPZ3, for a public groundwater supply abstraction, in the southwestern end of the Cable Route Corridor between The Oaks and Hambleton Hough. There are no SPZ1 or SPZ2 (more sensitive than SPZ3) within the Assessment Area.

30.1.6 In general, current and historical land uses across the Assessment Area comprise agricultural land. Areas of localised, potentially contaminated, made ground are anticipated associated with farming activities, construction of rail lines, roads and river flood embankments and potential backfilled pits, ponds and quarries. No landfills, petrol stations or other significant industrial land uses have been identified within the Assessment Area.

30.1.7 The Assessment Area includes a Mining Remediation Authority coal mining reporting area. Underground mine workings are present at depth beneath some areas of the Assessment Area. There are no development high risk areas, mine entries or recorded shallow mine working beneath the Assessment Area. As mine workings are present at depth there is considered to be a very low risk to the Proposed Development from coal mining related ground subsidence.

30.1.8 It has not been necessary to assess the strength of shallow soils, depth to engineering rockhead and groundwater in this study. This should be confirmed by ground investigation to inform appropriate geotechnical design for foundations and should include sulphate testing to determine the concrete classification for the Proposed Development.

30.1.9 A CSM and preliminary contamination risk assessment was prepared for each of the Solar Development Sites and Cable Route Corridors. Given the nature of the Proposed Development and the existing greenfield site, there is considered to be a typically very low to low risk from contaminated land to human health or controlled waters receptors. A moderate/low risk associated with the Cable Route Corridors to Secondary and Principal aquifers was identified from potentially contaminated localised Made Ground or other pollution incidents.

30.1.10 Although no significant potential sources of contamination have been identified it is possible that unforeseen ground conditions or contamination from agricultural uses or possible infilled ground could be encountered during construction and a discovery strategy for managing unexpected contamination will be adopted as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].

30.2 Recommendations

30.2.1 Whilst risks from contamination to the Proposed Development are typically low for the Solar Development Sites, it would be prudent to confirm the CSM with a ground investigation prior to the construction phase. A ground investigation to inform the geotechnical appraisal of ground conditions will be required to support the detailed design of the development. It is recommended that this records any contamination encountered and includes soil sampling and analysis to validate the contamination preliminary conceptual model.

30.2.2 Along the proposed Cable Route Corridors potential sources of contamination and sensitive receptors should be avoided where practicable. Once the Cable Route Corridor is narrowed down a geotechnical and geoenvironmental ground investigation should be carried out prior to the construction phase. This is recommended to inform on the geotechnical properties for the construction methodology (particularly at key crossings) to support the detailed design. The ground investigation will be carried out in accordance with BS10175:2011+A2:2017 (Ref 3). To mitigate any residual risk to controlled waters a discovery strategy for managing unexpected contamination is recommended for the proposed Cable Route Corridor and will be adopted as set out in the oCEMP [**EN0110012/APP/LVS/07.02**].

References

Ref 1 Environment Agency “Land contamination risk management (LCRM)” [Online] Available at: https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm

Ref 2 British Standards Institute “BS 5930:2015+A1:2020 Code of practice for ground investigations” [Online] Available at: https://knowledge.bsigroup.com/products/code-of-practice-for-ground-investigations [Accessed 01 December 2025]

Ref 3 British Standards Institute “BS 10175 Investigation of potentially contaminated sites. Code of practice.” [Online] Available at: https://knowledge.bsigroup.com/products/bs-10175-investigation-of-potentially-contaminated-sites-code-of-practice [Accessed 01 December 2025]

Ref 4 British Geological Survey, “GeoIndex Onshore,” [Online]. Available at: https://mapapps2.bgs.ac.uk/geoindex/home.html?_ga=2.80718423.1344365845.1688571288-1063187633.1688571288.

Ref 5 British Geological Survey, 1:50,000 Series England and Wales, Sheet 71 Selby, Bedrock and Superficial Deposits, 2008.

Ref 6 British Geological Survey, 1:50,000 Series England and Wales, Sheet 78 Wakefield, Solid and Drift Geology, 1998.

Ref 7 British Geological Survey, 1:50,000 Series England and Wales, Sheet 79 Goole, Drift, 1971.

Ref 8 British Geological Survey, 1:50,000 Series, England and Wales, Sheet 79 Goole, Solid, 1972.

Ref 9 Defra, “Multi-Agency Geographic Information for the Countryside Interactive Map (MAGIC),” [Online]. Available at: https://magic.defra.gov.uk/.

Ref 10 Groundsure, “Groundsure.io,” [Online]. Available at: https://groundsure.io/.

Ref 11 North Yorkshire Geodiversity Partnership, “Geological Sites,” [Online]. Available at: https://www.nygp.org.uk/geological-sites/ [Accessed 01 December 2025]

Ref 12 National Library of Scotland, “National Library of Scotland Map Images,” [Online]. Available at: https://maps.nls.uk/ [Accessed 01 December 2025]

Ref 13 Mining Remediation Authority, “Mining Remediation Authority Map Viewer,” [Online]. Available at: https://datamine-cauk.hub.arcgis.com/ [Accessed 01 December 2025]

Ref 14 North Yorkshire Council, “Types of Contaminated Land,” 2024. [Online]. Available at: https://www.northyorks.gov.uk/environment-and-neighbourhoods/contaminated-land/types-contaminated-land [Accessed 01 December 2025]

Ref 15 Zetica UXO, “Risk Maps,” [Online]. Available at: https://zeticauxo.com/guidance/risk-maps/ [Accessed 01 December 2025]

Ref 16 Groundsure, “Geo Insight Report 302939-00 LVS – Site 1, GS-14B-3OU-AQ4-HC1” 2025.

Ref 17 Groundsure, “Enviro Insight Report 302939 LVS – Site 1, GS-9S3-2BR-LIO-KHU” 2025.

Ref 18 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 1 North Yorkshire, GS-UMJ-XNW-N7-C3W” January 2025

Ref 19 Groundsure, “Geo Insight Report 302939-00 LVS – Site 2, GS-XOL-51IA-R2D” 2025.

Ref 20 Groundsure, “Enviro Insight Report 302939 LVS – Site 2, GS-MU3-MEX-YR1-KWO” 2025.

Ref 21 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 2 West Yorkshire, GS-ROY-GI5-E88-P2J” January 2025

Ref 22 Groundsure, “Geo Insight Report 302939-00 LVS – Site 3, GS-2XD-1PV-UFA-G31” 2025.

Ref 23 Groundsure, “Enviro Insight Report 302939 LVS – Site 3, GS-AL3-WHO-BE5-AJJ” 2025.

Ref 24 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 3 West Yorkshire, GS-TSV-SMY-K9K-48” January 2025

Ref 25 Groundsure, “Geo Insight Report 302939-00 LVS – Site 4, GS-SRP-6EC-X3R-CSJ” 2025.

Ref 26 Groundsure, “Enviro Insight Report 302939 LVS – Site 4, GS-OGH-PKF-21M-YLB” 2025.

Ref 27 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 4 North Yorkshire, GS-GDH-454-CS7-MSJ” January 2025

Ref 28 Groundsure, “Geo Insight Report 302939-00 LVS – Site 6 and 7, GS-EDT-WCY-5SI-52N” 2025.

Ref 29 Groundsure, “Enviro Insight Report 302939 LVS – Site 6 and 7, GS-X3H-OEL-W5Q-IL5” 2025.

Ref 30 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 6 and 7 West Yorkshire, GS-2SW-2P3-7G7-IG4” January 2025

Ref 31 Northern Mine Research Society “Gascoigne Wood Drifts” [Online] Available: https://nmrs.org.uk/mines-map/coal-mining-in-the-british-isles/yorkshire-coalfield/selby/gaswood/ [Accessed 01 December 2025]

Ref 32 Groundsure, “Geo Insight Report 302939-00 LVS – Site 8, GS-6RL-CZO-W08-HLR” January 2025.

Ref 33 Groundsure, “Enviro Insight Report 302939 LVS – Site 8, GS-M60-SYT-CKD-ERT” January 2025.

Ref 34 Coal Authority “Consultants Coal Mining Report 302939-00 LVS Site 8 West Yorkshire, GS-FG8-UQZ-LOB-CQ3” January 2025.

Ref 35 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 1 (Site 1 to 4), GS-114-U22-B54-PXF” March 2025.

Ref 36 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 1 (Site 1 to 4), GS-Z71-WGF-PP9-XT4” March 2025.

Ref 37 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 7 and 4 (Site 4 to 2 and 8), GS-BFW-2PG-S9X-7AW” March 2025.

Ref 38 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 7 and 4 (Site 4 to 2 and 8), GS-Z4I-OK5-5GJ-OAN” March 2025.

Ref 39 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 9A (Site 2 to 6), GS-X4J-YFX-XV4-58W” March 2025.

Ref 40 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 9A (Site 2 to 6), GS- M9B-VE3-CS9-SH7” March 2025.

Ref 41 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 9B (Site 2 to 6), GS-J44-YKZ-8VW-YKL” March 2025.

Ref 42 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 9B (Site 2 to 6), GS- LJK-PUL-1BF-CAW” March 2025.

Ref 43 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 6A & 6B (Site 3 to 4), GS-ONJ-523-5A1-DDJ” March 2025.

Ref 44 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 6A & 6B (Site 3 to 4), GS-QRV-E4V-QSL-BRN” March 2025.

Ref 45 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 10 (Site 6 to 7), GS-NM9-V74-71T-1RU” March 2025.

Ref 46 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 10 (Site 6 to 7), GS- TI6-EKO-MX7-XZH” March 2025.

Ref 47 Groundsure, “Geo Insight Report 302939-00 LVS Cable Route Corridor 8 (Site 4 to substation), GS-L5Z-ZW7-22E-YBP” March 2025.

Ref 48 Groundsure, “Enviro Insight Report 302939 LVS Cable Route Corridor 8 (Site 4 to substation), GS-OOR-77J-I7X-7HL” March 2025.

Ref 49 UK Government “National Planning Policy Framework” December 2024 [Online] Available at: https://assets.publishing.service.gov.uk/media/67aafe8f3b41783cca46251/NPPF_December_2024.pdf

Ref 50 UK Government “Planning Practice Guidance” [Online] Available at: https://www.gov.uk/government/collections/planning-practice-guidance [Accessed 01 December 2025]

Ref 51 UK Government “Environmental Protection Act 1990” [Online] Available at: https://www.legislation.gov.uk/ukpga/1990/43 [Accessed 01 December 2025]

Ref 52 Defra “Environmental Protection Act 1990: Part A Contaminated Land Statutory Guidance” April 2021 [Online] Available at:

https://assets.publishing.service.gov.uk/media/5a757dfa40f0b6360e47489d/pb13735cont-land-guidance.pdf [Accessed 01 December 2025]

Ref 53 CIRIA “Contaminated land risk assessment. A guide to good practice (C552)” 2001 Available at: https://www.ciria.org/CIRIA/CIRIA/Item_Detail.aspx?iProductCode=C552&Category=BO [Accessed 01 December 2025]

Annexes

Annexes

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Annex A Solar Development Site 1 Site Information

A.1. Groundsure Enviro and Geo Insight Report

Groundsure LOCATION INTELLIGENCE

Enviro Insight

302939-00 LVS - Site 1

Order Details

Date: 09/01/2025

Your ref: 302939-00 LVS Site 1

Our Ref: GS-9S3-2BR-LIO-KHU

Site Details

Location: 465226 442049

Area: 436.97 ha

Authority: The North Yorkshire Council ↗, City of York Council ↗

Summary of findings p. 2 >

Aerial image p. 6 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	4	5	4	6	-
12 >	1.2 >	Historical tanks >	0	0	0	2	-
13	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
13	1.5	Historical garages	0	0	0	0	-
14	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
15 >	2.1 >	Historical industrial land uses >	5	7	6	9	-
17 >	2.2 >	Historical tanks >	0	0	0	2	-
17	2.3	Historical energy features	0	0	0	0	-
17	2.4	Historical petrol stations	0	0	0	0	-
17	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
18	3.1	Active or recent landfill	0	0	0	0	-
18	3.2	Historical landfill (BGS records)	0	0	0	0	-
19	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
19	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
19	3.5	Historical waste sites	0	0	0	0	-
19 >	3.6 >	Licensed waste sites >	0	0	1	0	-
20 >	3.7 >	Waste exemptions >	24	2	45	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	4.1 >	Recent industrial land uses >	1	2	0	-	-
27	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-

27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
28 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	2	7	-
30	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
30	4.12	Radioactive Substance Authorisations	0	0	0	0	-
30 >	4.13 >	Licensed Discharges to controlled waters >	5	0	6	4	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
33	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
33	4.17	List 2 Dangerous Substances	0	0	0	0	-
34 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	0	-
34 >	4.19 >	Pollution inventory substances >	0	0	0	5	-
36 >	4.20 >	Pollution inventory waste transfers >	0	0	1	1	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Geology (basic) >					
39 >	5.1 >	Superficial geology (625k) >	Identified (within 500m)				
39 >	5.2 >	Bedrock geology (625k) >	Identified (within 500m)				
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
40 >	6.1 >	Superficial aquifer >	Identified (within 500m)				
42 >	6.2 >	Bedrock aquifer >	Identified (within 500m)				
44 >	6.3 >	Groundwater vulnerability >	Identified (within 50m)				
48	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	6.5	Groundwater vulnerability- local information	None (within 0m)				
50 >	6.6 >	Groundwater abstractions >	0	6	0	22	33
65 >	6.7 >	Surface water abstractions >	1	0	0	0	1
65 >	6.8 >	Potable abstractions >	0	0	0	0	2
66 >	6.9 >	Source Protection Zones >	0	0	0	1	-

66	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
67 >	7.1 >	Water Network (OS MasterMap) >	33	20	9	-	-
72 >	7.2 >	Surface water features >	1	11	12	-	-
73 >	7.3 >	WFD Surface water body catchments >	2	-	-	-	-
73 >	7.4 >	WFD Surface water bodies >	1	0	0	-	-
74 >	7.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
75 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
76 >	8.2 >	Historical Flood Events >	25	11	17	-	-
79	8.3	Flood Defences	0	0	0	-	-
79	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
80	8.5	Flood Storage Areas	0	0	0	-	-
81 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
82 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
83 >	9.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
85 >	10.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
86	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
87	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
87	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
87	11.4	Special Protection Areas (SPA)	0	0	0	0	0
87	11.5	National Nature Reserves (NNR)	0	0	0	0	0
88	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
88 >	11.7 >	Designated Ancient Woodland >	0	2	0	2	5
88	11.8	Biosphere Reserves	0	0	0	0	0
89	11.9	Forest Parks	0	0	0	0	0

89	11.10	Marine Conservation Zones	0	0	0	0	0
89 >	11.11 >	Green Belt >	0	1	1	0	0
89	11.12	Proposed Ramsar sites	0	0	0	0	0
90	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
90	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
90	11.15	Nitrate Sensitive Areas	0	0	0	0	0
90 >	11.16 >	Nitrate Vulnerable Zones >	4	0	0	0	1
92 >	11.17 >	SSSI Impact Risk Zones >	4	-	-	-	-
94	11.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
95	12.1	World Heritage Sites	0	0	0	-	-
96	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
96	12.3	National Parks	0	0	0	-	-
96 >	12.4 >	Listed Buildings >	0	0	2	-	-
97 >	12.5 >	Conservation Areas >	0	1	0	-	-
97	12.6	Scheduled Ancient Monuments	0	0	0	-	-
97	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
98 >	13.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
99	13.2	Open Access Land	0	0	0	-	-
99 >	13.3 >	Tree Felling Licences >	7	2	1	-	-
100 >	13.4 >	Environmental Stewardship Schemes >	2	5	4	-	-
101 >	13.5 >	Countryside Stewardship Schemes >	15	12	6	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
103 >	14.1 >	Priority Habitat Inventory >	9	4	3	-	-
104	14.2	Habitat Networks	0	0	0	-	-
104	14.3	Open Mosaic Habitat	0	0	0	-	-
105	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 436.97ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 436.97ha

Recent site history - 2014 aerial photograph

Capture Date: 16/04/2014

Site Area: 436.97ha

Recent site history - 2007 aerial photograph

Capture Date: 05/04/2007

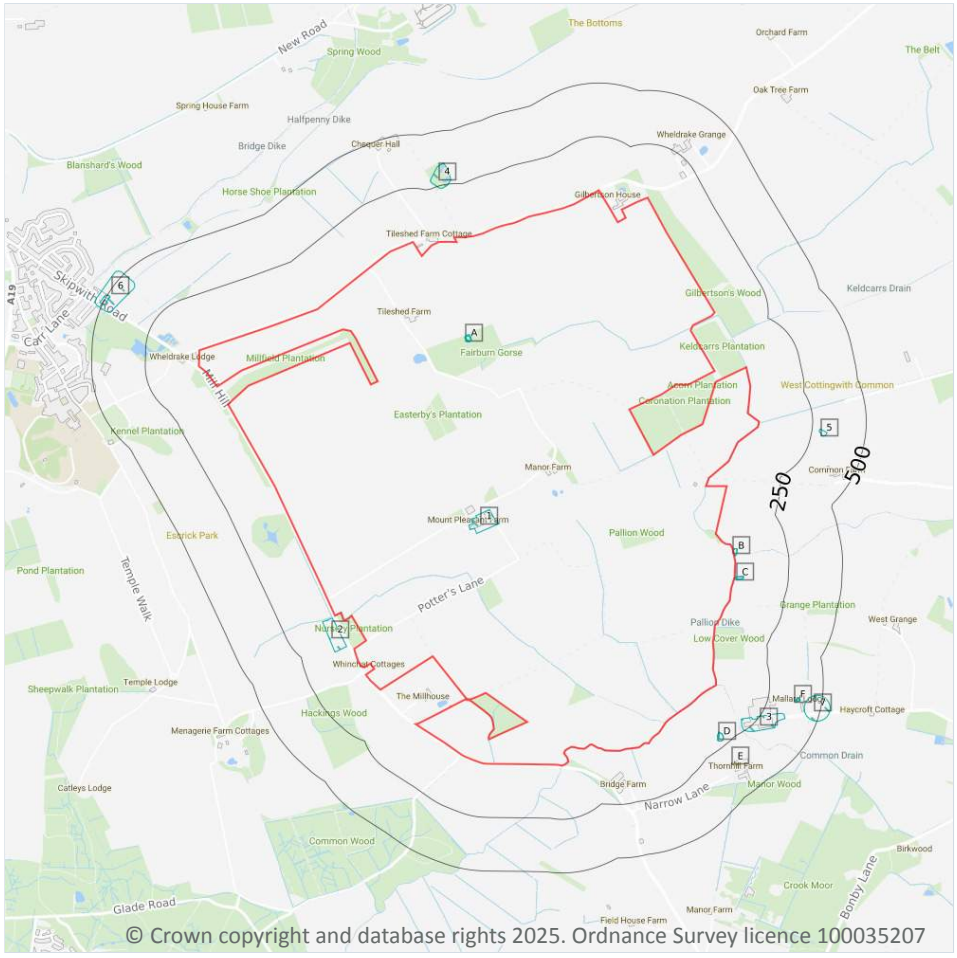
Site Area: 436.97ha

Recent site history - 1999 aerial photograph

Capture Date: 20/05/1999

Site Area: 436.97ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	19

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 11 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Commercial/Industrial**	**1950**	**1431709**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Pit**	**1910**	**1487259**
A	**On site**	**Unspecified Pit**	**1950**	**1491870**
A	**On site**	**Unspecified Pit**	**1950**	**1512390**
B	1m E	Old Clay Pit	1910 - 1950	1505770
B	2m E	Old Clay Pit	1950	1558166
C	2m SE	Old Clay Pit	1910	1532176
C	3m SE	Old Clay Pit	1950	1560486
2	17m SW	Nursery	1910	1453404
D	185m SE	Old Sand Pit	1910 - 1950	1570026
D	190m SE	Old Sand Pit	1950	1492778
3	198m SE	Unspecified Factory	1977	1479341
4	236m N	Old Gravel Pit	1910 - 1950	1578522
5	283m E	Sand Pit	1908 - 1950	1548126
F	377m SE	Sand Pit	1910 - 1950	1494686
F	380m SE	Unspecified Ground Workings	1950	1439455
6	420m NW	Police Station and Court House	1958	1442016
7	424m SE	Unspecified Hole	1950	1441912
8	485m NW	Police Station	1910 - 1950	1532484

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**2**

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 11 >**

ID	Location	Land use	Dates present	Group ID
E	338m SE	Tanks	1975	235438
E	354m SE	Tanks	1975	235437

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.

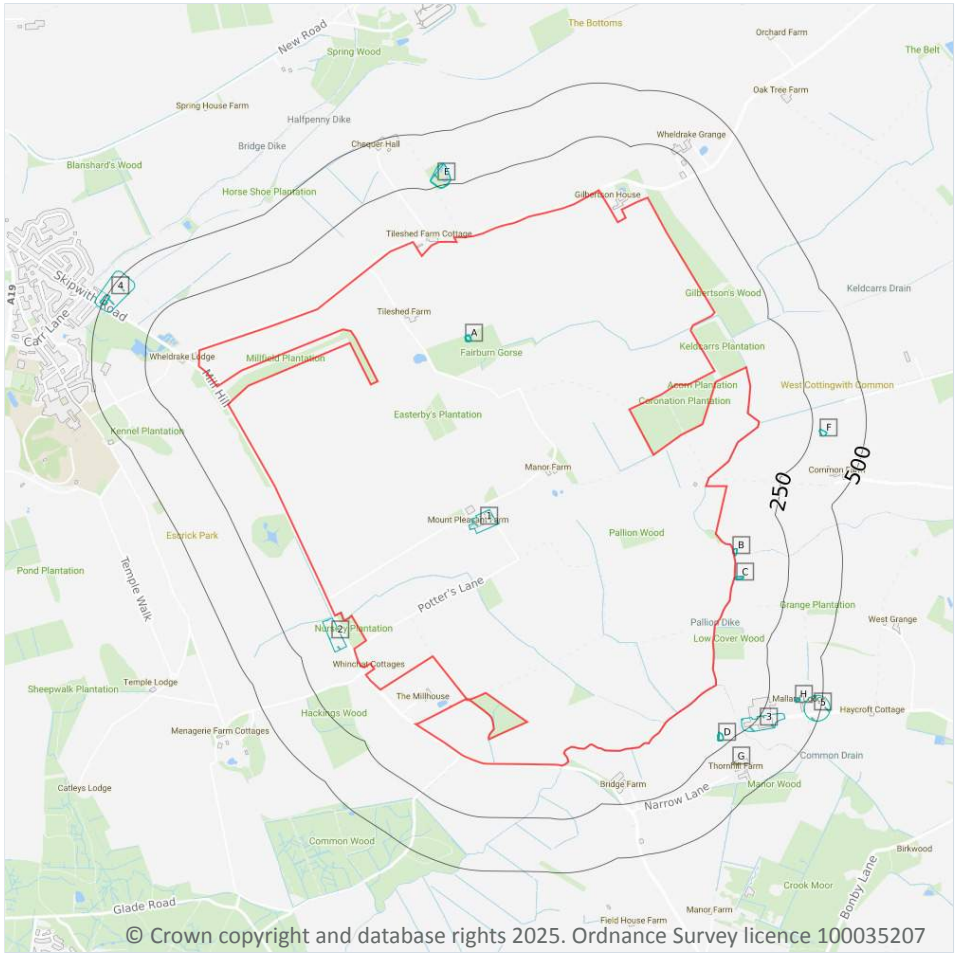
1.6 Historical military land

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	27

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 15 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Commercial/Industrial**	**1950**	**1431709**
A	**On site**	**Unspecified Pit**	**1950**	**1512390**
A	**On site**	**Unspecified Pit**	**1950**	**1491870**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Pit**	**1910**	**1487259**
A	**On site**	**Unspecified Pit**	**1910**	**1487259**
B	1m E	Old Clay Pit	1910	1505770
B	2m E	Old Clay Pit	1950	1558166
C	2m SE	Old Clay Pit	1910	1532176
B	2m E	Old Clay Pit	1950	1505770
C	3m SE	Old Clay Pit	1950	1560486
C	4m SE	Old Clay Pit	1950	1560486
2	17m SW	Nursery	1910	1453404
D	185m SE	Old Sand Pit	1910	1570026
D	190m SE	Old Sand Pit	1950	1570026
D	190m SE	Old Sand Pit	1950	1492778
3	198m SE	Unspecified Factory	1977	1479341
E	236m N	Old Gravel Pit	1950	1578522
E	238m N	Old Gravel Pit	1910	1578522
F	283m E	Sand Pit	1908	1548126
F	285m E	Sand Pit	1950	1548126
H	377m SE	Sand Pit	1910	1494686
H	378m SE	Sand Pit	1950	1494686
H	380m SE	Unspecified Ground Workings	1950	1439455
4	420m NW	Police Station and Court House	1958	1442016
5	424m SE	Unspecified Hole	1950	1441912
I	485m NW	Police Station	1950	1532484
I	486m NW	Police Station	1910	1532484

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	2

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 15 >**

ID	Location	Land Use	Date	Group ID
G	338m SE	Tanks	1975	235438
G	354m SE	Tanks	1975	235437

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.

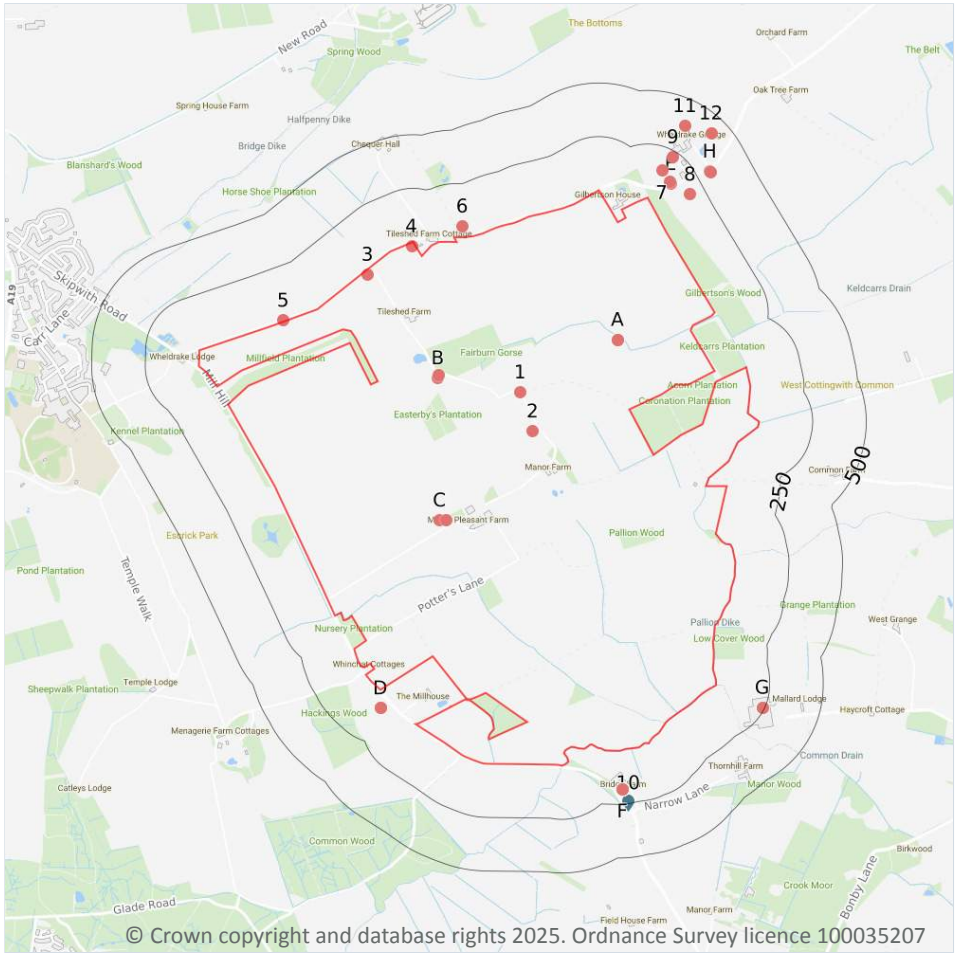
2.5 Historical garages

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



3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 18 >**

ID	Location	Details		
10	248m S	Site Name: Asphalt Waste Recycling Facility Site Address: Asphalt Waste Recycling Facility, Holme Wood Lane, Armthorpe, Doncaster, DN3 3EH Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 647838 EPR reference: EA/EPR/UP3231QS Operator: Tarmac Trading Limited Waste Management licence No: 406165 Annual Tonnage: 250000	Issue Date: 08/05/2022 Effective Date: 08/05/2022 Modified: 12/06/2023 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	75

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

Features are displayed on the Waste and landfill map on **page 18 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX368683	Storing waste exemption	On a farm	Storage of sludge
2	On site	-	WEX334747	Storing waste exemption	On a farm	Storage of sludge
3	On site	-	WEX292889	Storing waste exemption	On a farm	Storage of sludge
4	On site	-	WEX378917	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX331039	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX331039	Using waste exemption	On a farm	Use of mulch
A	On site	-	WEX331039	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	-	WEX331039	Using waste exemption	On a farm	Pig and poultry ash
A	On site	-	WEX331039	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX331039	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	-	WEX331039	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	-	WEX331039	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	On site	-	WEX206919	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**-**	**WEX206919**	**Disposing of waste exemption**	**On a farm**	**Deposit of waste from dredging of inland waters**
A	**On site**	**-**	**WEX206919**	**Treating waste exemption**	**On a farm**	**Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising**
A	**On site**	**-**	**WEX206919**	**Using waste exemption**	**On a farm**	**Pig and poultry ash**
A	**On site**	**-**	**WEX206919**	**Using waste exemption**	**On a farm**	**Spreading of plant matter to confer benefit**
A	**On site**	**-**	**WEX206919**	**Using waste exemption**	**On a farm**	**Use of mulch**
A	**On site**	**-**	**WEX206919**	**Using waste exemption**	**On a farm**	**Spreading waste on agricultural land to confer benefit**
A	**On site**	**-**	**WEX206919**	**Disposing of waste exemption**	**On a farm**	**Burning waste in the open**
B	**On site**	**-**	**WEX334743**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**-**	**WEX393461**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	**On site**	**-**	**WEX334746**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	**On site**	**-**	**WEX397571**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
5	5m NW	Wheldrake Lane Escrick Yo19 6eg	EPR/GF0233NN/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
6	49m N	-	WEX292743	Storing waste exemption	On a farm	Storage of sludge
D	88m SW	-	WEX349113	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	88m SW	-	WEX349113	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
D	88m SW	-	WEX349113	Using waste exemption	On a farm	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
D	88m SW	-	WEX349113	Using waste exemption	On a farm	Use of waste in construction
D	88m SW	-	WEX221094	Using waste exemption	On a farm	Use of waste in construction
D	88m SW	-	WEX221094	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	88m SW	-	WEX221094	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
D	88m SW	-	WEX221094	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	88m SW	-	WEX221094	Storing waste exemption	On a farm	Storage of waste in secure containers
D	88m SW	-	WEX221094	Storing waste exemption	On a farm	Storage of waste in a secure place
E	124m NE	-	WEX354607	Storing waste exemption	On a farm	Storage of sludge
E	126m NE	-	WEX246425	Storing waste exemption	On a farm	Storage of sludge
7	140m NE	Kelfield Lodge Farm York Yo19 6rw	EPR/YH0871RM/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
8	179m NE	Kelfield Lodge Farm York Yo19 6rw	EPR/DH0771RU/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Using waste exemption	On a farm	Use of waste for a specified purpose
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

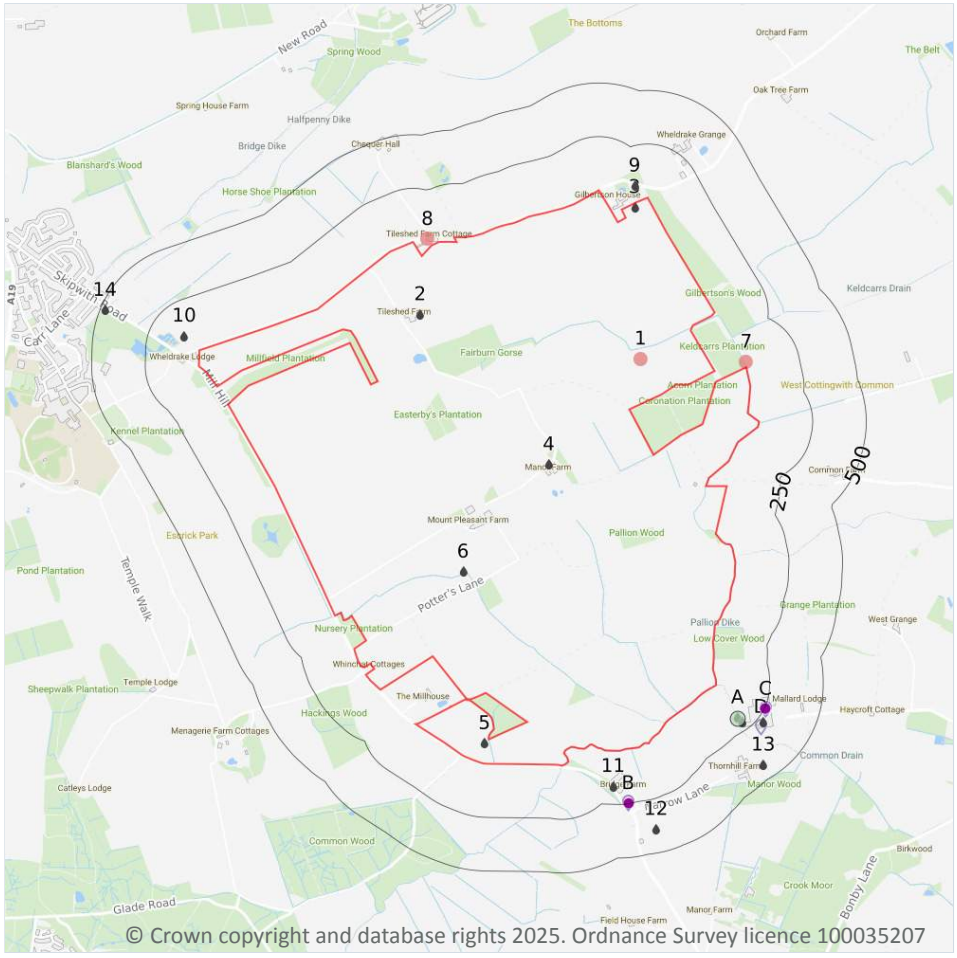
ID	Location	Site	Reference	Category	Sub-Category	Description
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Disposing of waste exemption	On a farm	Disposal by incineration
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX329584	Disposing of waste exemption	On a farm	Burning waste in the open
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Using waste exemption	On a farm	Use of waste for a specified purpose
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Disposing of waste exemption	On a farm	Disposal by incineration
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Disposing of waste exemption	On a farm	Burning waste in the open
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Disposing of waste exemption	On a farm	Burning waste in the open
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Disposing of waste exemption	On a farm	Disposal by incineration
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Using waste exemption	On a farm	Use of waste for a specified purpose

ID	Location	Site	Reference	Category	Sub-Category	Description
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX050248	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	181m S	Bridge Farm, Skipwith, Selby, Yo8 5sn	WEX203620	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Disposing of waste exemption	Agricultural waste only	Disposal by incineration
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from a portable sanitary convenience
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	182m S	Bridge Farm Selby North Yorkshire Yo8 5sn	EPR/RE5881UP/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
9	221m NE	-	WEX233596	Storing waste exemption	On a farm	Storage of sludge
G	240m SE	Thorganby, York, Yo19 6dj	WEX352291	Using waste exemption	Not on a farm	Use of sludge for the purposes of re-seeding a waste water treatment plant
G	240m SE	Thorganby, York, Yo19 6dj	WEX243545	Using waste exemption	Not on a farm	Use of sludge for the purposes of re-seeding a waste water treatment plant
H	311m NE	-	WEX386646	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
H	313m NE	-	WEX192495	Storing waste exemption	On a farm	Storage of sludge
11	375m NE	-	WEX192483	Storing waste exemption	On a farm	Storage of sludge
12	420m NE	-	WEX279180	Storing waste exemption	On a farm	Storage of sludge

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 26 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Wind Turbine**	**North Yorkshire, YO19**	**Energy Production**	**Industrial Features**
7	25m NE	Electricity Poles	North Yorkshire, YO19	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
8	36m N	Dryland Developments Ltd	Gamekeepers Cottage, Wheldrake Lane, Escrick, Selby, North Yorkshire, YO19 6EL	Agricultural Contractors	Contract Services

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	0

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.

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	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	9

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 26 >**

ID	Location	Details	
B	248m S	Operator: Tarmac Trading Limited Installation Name: Asphalt Waste Recycling Facility Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3231QS Original Permit Number: UP3231QS	EPR Reference: EPR/UP3231QS Issue Date: 08/05/2022 Effective Date: 08/05/2022 Last date noted as effective: 29/10/2024 Status: Effective

ID	Location	Details	
B	248m S	Operator: Tarmac Trading Limited Installation Name: Asphalt Waste Recycling Facility Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: ZP3308MV Original Permit Number: UP3231QS	EPR Reference: - Issue Date: 08/05/2022 Effective Date: 08/05/2022 Last date noted as effective: 21/03/2023 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective
C	255m SE	Operator: J.E.HARTLEY LIMITED Installation Name: Roth Hill Lane Anaerobic Digestion Facility EPR/UP3434WA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: UP3434WA Original Permit Number: UP3434WA	EPR Reference: EPR/UP3434WA Issue Date: 06/03/2015 Effective Date: 06/03/2015 Last date noted as effective: 29/10/2024 Status: Effective

ID	Location	Details	
D	286m SE	Operator: J E Hartley Ltd Installation Name: J E HARTLEY LTD Process: MCP Permit Number: VB3090YG Original Permit Number: VB3090YG	EPR Reference: EPR/VB3090YG Issue Date: 12/10/2022 Effective Date: 12/10/2022 Last date noted as effective: 29/10/2024 Status: Effective

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	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	15

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 26 >**

ID	Location	Address	Details	
2	**On site**	**TILESHEDFARM,ESCRICK,YORK,NORTHYORKSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY** **Permit Number: D105** **Permit Version: 1** **Receiving Water: DITCH TO PALLION DIKE**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)** **Issue date: 13/02/1995** **Effective Date: 13/02/1995** **Revocation Date: -**

ID	Location	Address	Details	
3	**On site**	**BARN&GRANARY,WHELDRAKE,YORK,NORTHYORKSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: QR.27/24/0065 Permit Version: 1 Receiving Water: LAND VIA SOAKAWAY**	**Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 19/09/1997 Effective Date: 19/09/1997 Revocation Date: -**
4	**On site**	**MANORFARM,ESCRICK,YORK,NORTHYORKSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: D108 Permit Version: 1 Receiving Water: DITCH TO PALLION DIKE**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 20/04/1995 Effective Date: 20/04/1995 Revocation Date: -**
5	**On site**	**WHINCHATFARM,SKIPWITH ROAD,ESCRICK,YORK**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1892 Permit Version: 1 Receiving Water: DITCH**	**Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: -**
6	**On site**	**MOUNTPLEASANTFARM,ESCRICK,YORK,NORTHYORKSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: D109 Permit Version: 1 Receiving Water: DITCH TO PALLION DIKE**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 20/04/1995 Effective Date: 20/04/1995 Revocation Date: -**
9	75m NE	GILBERTSONHOUSE,ESCRICK ROAD,WHELDRAKE,YORK,NORTHYORKSHIRE,YO46BQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: QR.27/24/0080 Permit Version: 1 Receiving Water: KELDCARRS DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/08/1997 Effective Date: 26/08/1997 Revocation Date: -
10	98m NW	1&2WHELDRAKELANECOTTAGES,ESCRICK,YORK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1888 Permit Version: 1 Receiving Water: DITCH TO PALLION DIKE	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: -

ID	Location	Address	Details	
11	166m S	BRIDGEFARM,SKIPWITH,SELBY,YO87SN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1893 Permit Version: 1 Receiving Water: DITCH TO PALLION DIEK	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: -
A	181m SE	JEHARTLEYLIMITED,ROTHHILLLANE,THORGANBY,YORK,NORTHYORKSHIRE,YO196DJ	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 27/24/0375 Permit Version: 1 Receiving Water: COMMON DRAIN	Status: SURRENDERED UNDER EPR 2010 Issue date: 31/12/2005 Effective Date: 01/01/2006 Revocation Date: 20/01/2018
A	209m SE	VEGETABLEFACTORY,THORGANBY,YORK,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 3386 Permit Version: 1 Receiving Water: TRIB.OF DAM DYKE	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/09/1979 Effective Date: 14/09/1979 Revocation Date: 23/06/1981
A	209m SE	VEGETABLEFACTORY,THORGANBY,YORK,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 3386 Permit Version: 2 Receiving Water: TRIB.OF DAM DYKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/06/1981 Effective Date: 24/06/1981 Revocation Date: 31/12/2005
D	279m SE	VEGETABLEFREEZINGFACTORY,THORGANBY,YORK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3348 Permit Version: 1 Receiving Water: PALLION DIKE	Status: REVOKED - UNSPECIFIED Issue date: 19/03/1979 Effective Date: 19/03/1979 Revocation Date: 23/12/1992
12	389m S	WAKEHOUSE,SKIPWITH,SELBY,YO87SN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1896 Permit Version: 1 Receiving Water: DITCH	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: -
13	431m SE	THORNHILLFARM,SKIPWITH,SELBY,YO46LB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1894 Permit Version: 1 Receiving Water: DITH TO COMMON DRAIN	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: -

ID	Location	Address	Details	
14	479m W	ESCRICKNO2SEWAGEPUMPINGSTATION,SKIPWITHROAD,ESCRICK,YORK,YO196JA	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/24/0186 Permit Version: 1 Receiving Water: HALFPENNY DIKE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 17/09/2002 Effective Date: 17/09/2002 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 26 >**

ID	Location	Details	
A	186m SE	Incident Date: 10/03/2003 Incident Identification: 142141 Pollutant: Contaminated Water Pollutant Description: Vegetable Washings	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	5

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 26 >**

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	7.73508kg

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Nitrous oxide	10000kg	4.0296kg

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Sulphur oxides (SO2 and SO3) as SO2	100000kg	0.0254kg

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	2.52e-6kg

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	9e-7kg

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

4.20 Pollution inventory waste transfers

Records within 500m	**2**

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 26 >**

ID: B, Location: 248m S, Permit: UP3231QS
Operator: Tarmac Trading Limited
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Asphalt Waste Recycling Facility Holme Wood Lane DN3 3EH
Sector: Hazardous Waste, Sub-sector: Hazardous Waste
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	Below Reporting Threshold	20 03 01	mixed municipal waste	No
D1	Deposit into or onto land (eg landfill, etc.)	Below Reporting Threshold	Below Reporting Threshold	20 03 04	septic tank sludge	No

ID: C, Location: 255m SE, Permit: UP3434WA
Operator: JE Hartley Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: Roth Hill Lane Anaerobic Digestion Facility Roth Hill Lane Thorganby York North Yorkshire YO19 6DJ
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	1000	Absolute Value	13 05 03	interceptor sludges	Yes
D10	Incineration on Land	1000	Absolute Value	16 07 08	wastes containing oil	Yes
D10	Incineration on Land	20	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	2000	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R10	Land treatment resulting in benefit to agriculture or ecological improvement	7097	Absolute Value	02 03 05	sludges from on-site effluent treatment	No
R10	Land treatment resulting in benefit to agriculture or ecological improvement	1792	Absolute Value	19 06 06	digestate from anaerobic treatment of animal and vegetable waste	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	21	Absolute Value	20 03 04	septic tank sludge	No

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 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	5

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**ALV-CLSS**	**ALLUVIUM**	**CLAY, SILT AND SAND**
On site	**GSG-SAGR**	**GLACIAL SAND AND GRAVEL**	**SAND AND GRAVEL**
On site	**TILL-DMTN**	**TILL**	**DIAMICTON**
On site	**LDE-CLAY**	**LACUSTRINE DEPOSITS (UNDIFFERENTIATED)**	**CLAY**
46m NW	LDE-CLAY	LACUSTRINE DEPOSITS (UNDIFFERENTIATED)	CLAY

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

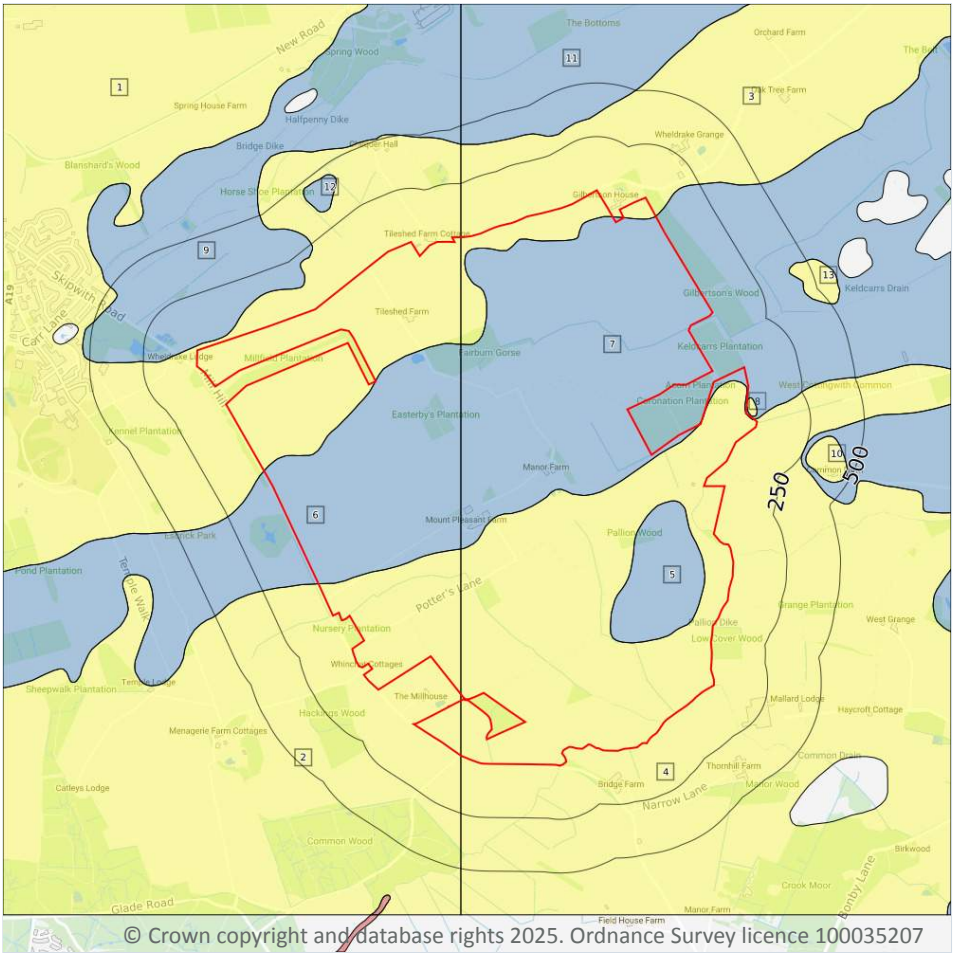
Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**TRIA-SCON**	**TRIASSIC ROCKS (UNDIFFERENTIATED)**	**SANDSTONE AND CONGLOMERATE, INTERBEDDED**

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	13

Aquifer status of groundwater held within superficial geology.

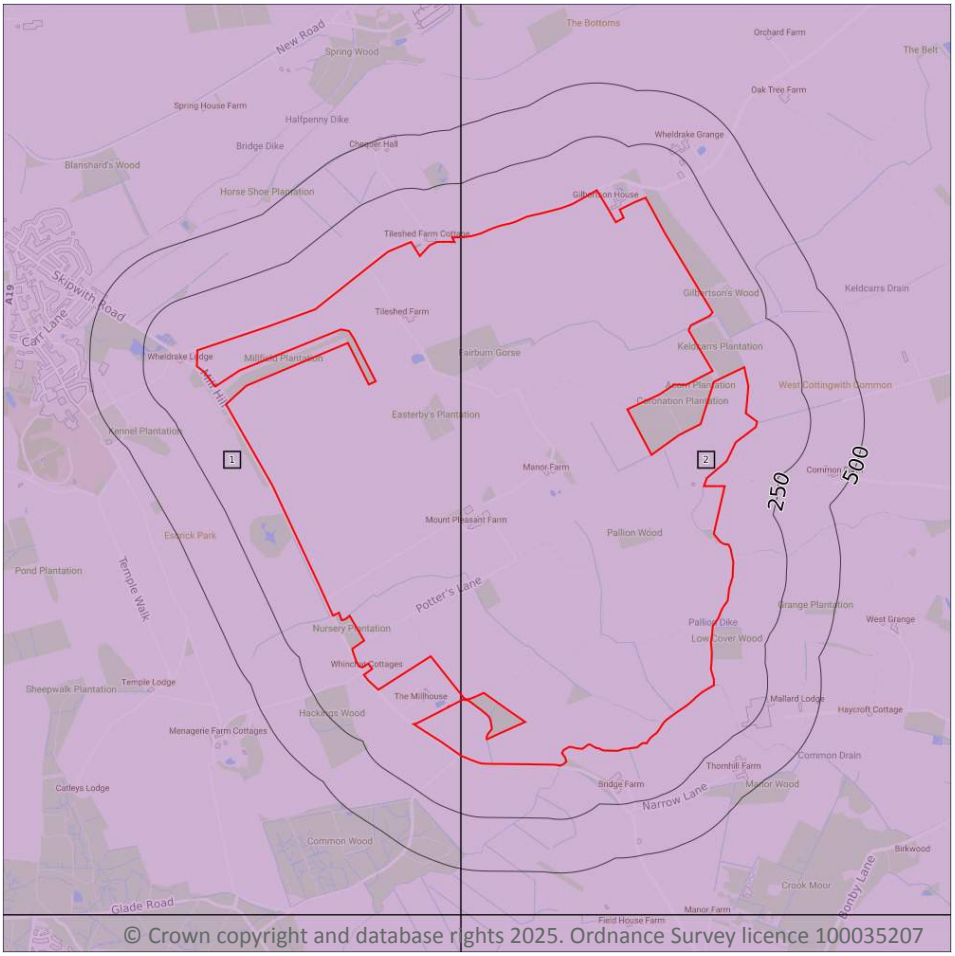
Features are displayed on the Hydrogeology map on **page 40 >**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	On site	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

ID	Location	Designation	Description
3	**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**
4	**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**
5	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
6	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
7	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
8	**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**
9	18m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	270m E	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
11	315m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	327m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	404m NE	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

6.2 Bedrock aquifer

Records within 500m	2

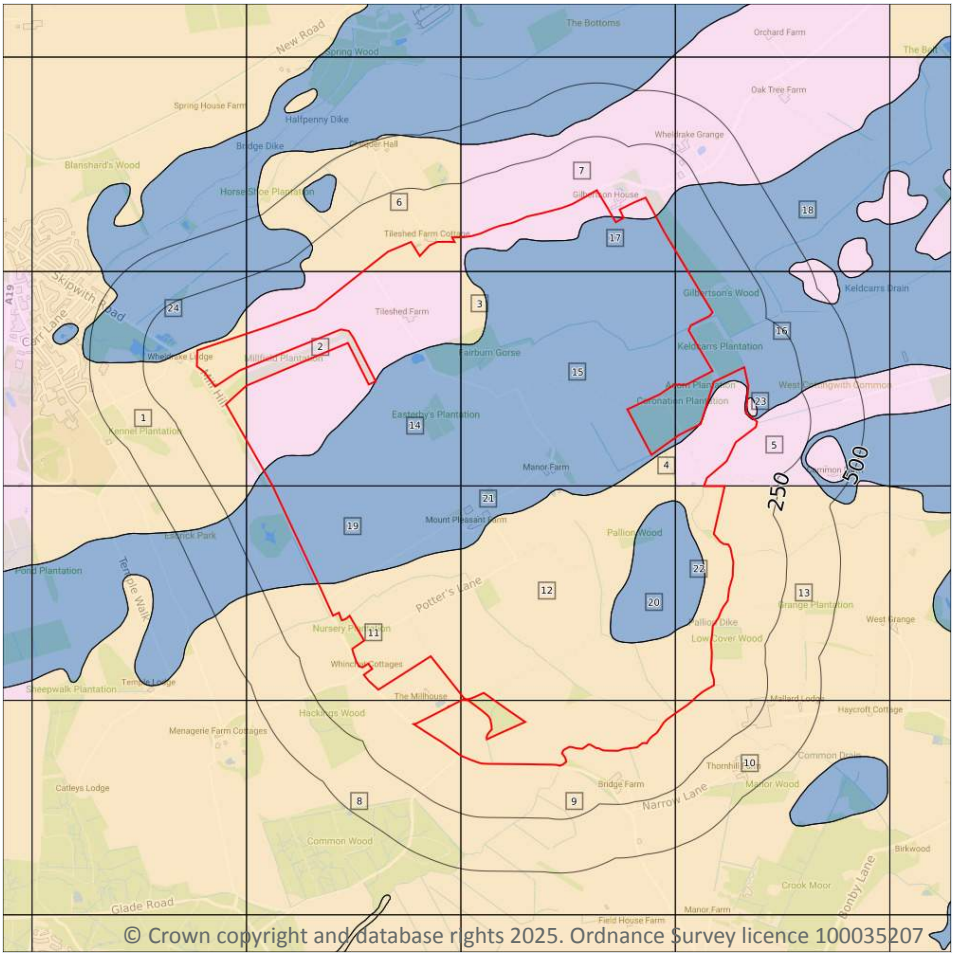
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 42 >**

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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	24

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 44 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
7	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
12	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
13	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
14	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
15	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
16	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
17	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
18	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
19	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
20	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
21	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
22	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
23	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
24	18m NW	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

6.4 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.

6.5 Groundwater vulnerability- local information

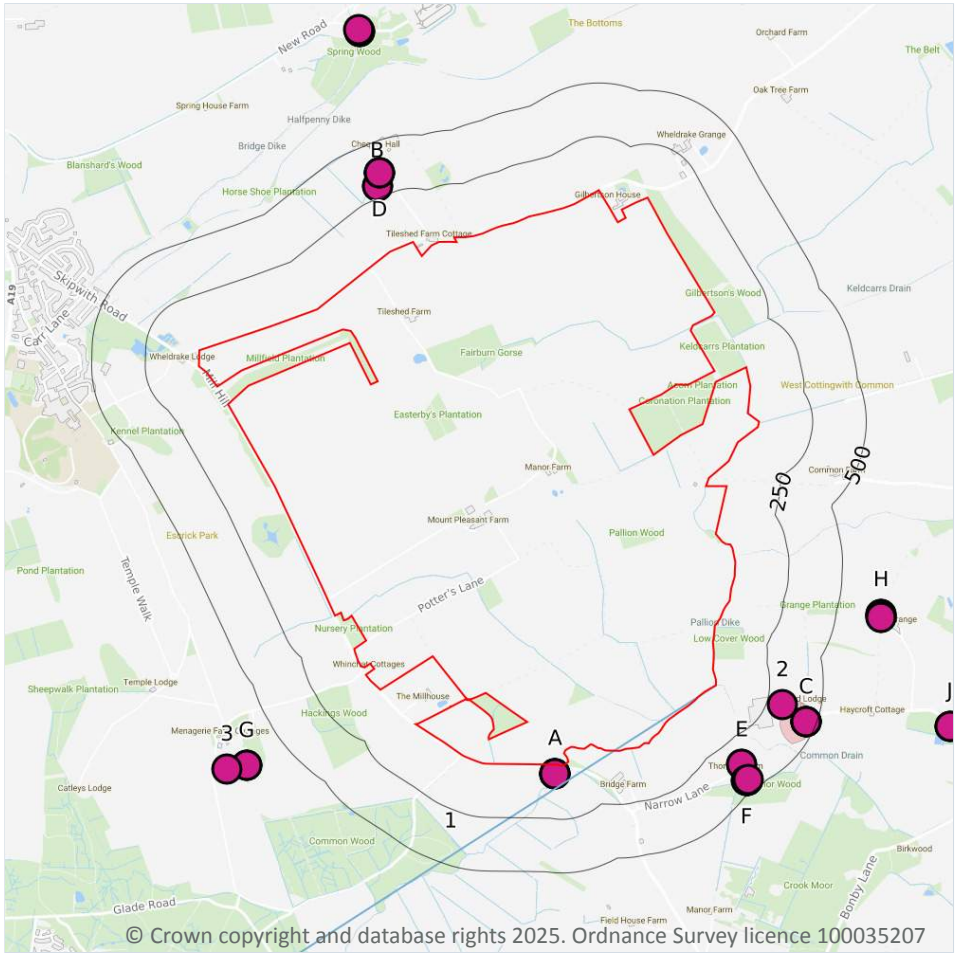
Records on site	**0**

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



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Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	61

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 50 >**

ID	Location	Details	
A	40m S	Status: Active Licence No: NE/027/0024/056 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: Escrick Park Home Farm Easting: 465430 Northing: 440660	Annual Volume (m^3): 322000 Max Daily Volume (m^3): 5616 Original Application No: NPS/WR/025440 Original Start Date: 06/06/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 12/06/2017 Version End Date: -
A	40m S	Status: Active Licence No: NE/027/0024/056 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: Escrick Park Home Farm Easting: 465430 Northing: 440660	Annual Volume (m^3): 322000 Max Daily Volume (m^3): 5616 Original Application No: NPS/WR/025440 Original Start Date: 06/06/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 12/06/2017 Version End Date: -
A	40m S	Status: Historical Licence No: 2/27/24/412 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: HOBSON FARMING LTD Easting: 465430 Northing: 440660	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/07/2001 Expiry Date: 31-Oct-03 Issue No: 1 Version Start Date: 26/07/2001 Version End Date: -
A	40m S	Status: Historical Licence No: 2/27/24/432 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: ROLAWN LTD Easting: 465430 Northing: 440660	Annual Volume (m^3): 50000 Max Daily Volume (m^3): 1400 Original Application No: - Original Start Date: 01/04/2004 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 23/12/2010 Version End Date: -

ID	Location	Details	
A	40m S	Status: Historical Licence No: NE/026/0034/008 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: ROLAWN LTD Easting: 465430 Northing: 440660	Annual Volume (m^3): 717000 Max Daily Volume (m^3): 19422 Original Application No: - Original Start Date: 01/10/2012 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -
A	40m S	Status: Historical Licence No: NE/026/0034/008 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: ROLAWN LTD Easting: 465430 Northing: 440660	Annual Volume (m^3): 717000 Max Daily Volume (m^3): 19422 Original Application No: - Original Start Date: 01/10/2012 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -
B	307m NW	Status: Historical Licence No: 2/27/24/310 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: ESCRICK PARK HOME FARM Easting: 464600 Northing: 443400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/06/1995 Expiry Date: 30/09/2004 Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -
B	307m NW	Status: Historical Licence No: 2/27/24/310 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ESCRICK PARK HOME FARM Easting: 464600 Northing: 443400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/06/1995 Expiry Date: 30/09/2004 Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -

ID	Location	Details	
2	323m SE	Status: Active Licence No: 2/27/28/086A Details: Vegetable Washing Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ROTHILL - THORGANBY Data Type: Point Name: J E HARTLEY LTD Easting: 466490 Northing: 440980	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 1640 Original Application No: 5269(2) Original Start Date: 11/03/1986 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2024 Version End Date: -
D	358m NW	Status: Active Licence No: NE/027/0024/056 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Escrick Park Home Farm Easting: 464610 Northing: 443460	Annual Volume (m^3): 322000 Max Daily Volume (m^3): 5616 Original Application No: NPS/WR/025440 Original Start Date: 06/06/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 12/06/2017 Version End Date: -
D	358m NW	Status: Active Licence No: NE/027/0024/056 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Escrick Park Home Farm Easting: 464610 Northing: 443460	Annual Volume (m^3): 322000 Max Daily Volume (m^3): 5616 Original Application No: NPS/WR/025440 Original Start Date: 06/06/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 12/06/2017 Version End Date: -
D	358m NW	Status: Historical Licence No: 2/27/24/441 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ROLAWN LTD Easting: 464610 Northing: 443460	Annual Volume (m^3): 136000 Max Daily Volume (m^3): 1930 Original Application No: - Original Start Date: 01/03/2005 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 23/06/2011 Version End Date: -
D	358m NW	Status: Historical Licence No: NE/026/0034/008 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ROLAWN LTD Easting: 464610 Northing: 443460	Annual Volume (m^3): 717000 Max Daily Volume (m^3): 19422 Original Application No: - Original Start Date: 01/10/2012 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -

ID	Location	Details	
E	370m SE	Status: Historical Licence No: 2/27/24/242 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HEADLEY Easting: 466300 Northing: 440700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/12/1987 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 12/03/1997 Version End Date: -
E	370m SE	Status: Historical Licence No: 2/27/24/242 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH SELBY Data Type: Point Name: G HEADLEY Easting: 466300 Northing: 440700	Annual Volume (m^3): 78216 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 15/12/1987 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 12/03/1997 Version End Date: -
F	439m SE	Status: Historical Licence No: 2/27/24/461 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466322 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -
F	439m SE	Status: Historical Licence No: 2/27/24/461 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466322 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -

ID	Location	Details	
F	441m SE	Status: Active Licence No: 2/27/24/461/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466325 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: NPS/WR/017387 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
F	441m SE	Status: Active Licence No: 2/27/24/461/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466325 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: NPS/WR/017387 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
F	441m SE	Status: Historical Licence No: 2/27/24/461 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466325 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -
F	441m SE	Status: Historical Licence No: 2/27/24/461 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466325 Northing: 440629	Annual Volume (m^3): 84000 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -

ID	Location	Details	
F	443m SE	Status: Historical Licence No: 2/27/24/461 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: G HEADLEY Easting: 466330 Northing: 440630	Annual Volume (m^3): 78000 Max Daily Volume (m^3): 1580 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Vegetable washing Direct Source: GROUNDWATERS Point: BOREHOLE - ROTHILL THORGANBY - SHERWOOD SANDSTONE Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE -THICKET THORGANBY - SHERWOOD SANDSTONE Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THICKET THORGANBY Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): 125000 Max Daily Volume (m^3): 1636 Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -

ID	Location	Details	
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Vegetable washing Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ROTHILL THORGANBY Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): 125000 Max Daily Volume (m^3): 1636 Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THICKET - THORGANBY Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): 125000 Max Daily Volume (m^3): 1636 Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -
C	453m SE	Status: Historical Licence No: 2/27/28/086A Details: Vegetable washing Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ROTHILL - THORGANBY Data Type: Point Name: J E HARTLEY LTD Easting: 466600 Northing: 440900	Annual Volume (m^3): 125000 Max Daily Volume (m^3): 1636 Original Application No: - Original Start Date: 11/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 15/07/1988 Version End Date: -
G	698m SW	Status: Active Licence No: NE/027/0024/056 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Escrick Park Home Farm Easting: 463991 Northing: 440697	Annual Volume (m^3): 322000 Max Daily Volume (m^3): 5616 Original Application No: NPS/WR/025440 Original Start Date: 06/06/2014 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 12/06/2017 Version End Date: -
G	698m SW	Status: Historical Licence No: NE/027/0024/026 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ROLAWN LTD Easting: 463991 Northing: 440697	Annual Volume (m^3): 136000 Max Daily Volume (m^3): 2286 Original Application No: - Original Start Date: 21/12/2010 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 28/01/2011 Version End Date: -

ID	Location	Details	
G	698m SW	Status: Historical Licence No: NE/026/0034/008 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ROLAWN LTD Easting: 463991 Northing: 440697	Annual Volume (m^3): 717000 Max Daily Volume (m^3): 19422 Original Application No: - Original Start Date: 01/10/2012 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 20/08/2013 Version End Date: -
H	705m E	Status: Historical Licence No: 2/27/24/276 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - WEST GRANGE FARM - SHERWOOD SANDSTONE Data Type: Point Name: H R FELL & SONS LTD Easting: 466950 Northing: 441400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1992 Expiry Date: 31/10/2001 Issue No: 100 Version Start Date: 20/01/1992 Version End Date: -
H	705m E	Status: Historical Licence No: 2/27/24/417 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - WEST GRANGE FARM - SHERWOOD SANDSTONE Data Type: Point Name: H R FELL & SONS LTD Easting: 466950 Northing: 441400	Annual Volume (m^3): 141764 Max Daily Volume (m^3): 1541 Original Application No: - Original Start Date: 19/12/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/12/2001 Version End Date: -
H	705m E	Status: Historical Licence No: 2/27/24/417 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORNGANBY Data Type: Point Name: H R FELL & SONS LTD Easting: 466950 Northing: 441400	Annual Volume (m^3): 141764 Max Daily Volume (m^3): 1541 Original Application No: - Original Start Date: 19/12/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 21/12/2010 Version End Date: -

ID	Location	Details	
H	709m E	Status: Active Licence No: 2/27/24/417/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORNGANBY Data Type: Point Name: H R FELL & SONS LTD Easting: 466950 Northing: 441387	Annual Volume (m^3): 141764 Max Daily Volume (m^3): 1541 Original Application No: NPS/WR/017350 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
H	709m E	Status: Historical Licence No: 2/27/24/417 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORNGANBY Data Type: Point Name: H R FELL & SONS LTD Easting: 466950 Northing: 441387	Annual Volume (m^3): 141764 Max Daily Volume (m^3): 1541 Original Application No: - Original Start Date: 19/12/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 21/12/2010 Version End Date: -
3	782m SW	Status: Historical Licence No: 2/27/24/403 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: ESCRICK PARK ESTATE Easting: 463900 Northing: 440680	Annual Volume (m^3): 136000 Max Daily Volume (m^3): 2286 Original Application No: - Original Start Date: 04/10/2000 Expiry Date: 30/09/2010 Issue No: 1 Version Start Date: 01/03/2005 Version End Date: -
I	1013m N	Status: Historical Licence No: 2/27/24/400 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE A Data Type: Point Name: RJB MINING (UK) LTD Easting: 464520 Northing: 444120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/05/2000 Expiry Date: 30/04/2003 Issue No: 2 Version Start Date: 31/05/2000 Version End Date: -
I	1013m N	Status: Historical Licence No: 2/27/24/430 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE A - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: UK COAL MINING LTD Easting: 464520 Northing: 444120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/05/2003 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 30/05/2003 Version End Date: -

ID	Location	Details	
I	1013m N	Status: Historical Licence No: 2/27/24/430 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE A - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Harworth Estates Investments Ltd Easting: 464520 Northing: 444120	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 30/05/2003 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 03/09/2013 Version End Date: -
I	1023m N	Status: Active Licence No: 2/27/24/430/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE A - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Harworth Estates Investments Ltd Easting: 464514 Northing: 444129	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 24/08/2018 Version End Date: -
J	1107m SE	Status: Active Licence No: NE/027/0024/027 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SELBY Data Type: Point Name: H R FELL & SONS LTD Easting: 467270 Northing: 440880	Annual Volume (m^3): 114000 Max Daily Volume (m^3): 1440 Original Application No: NPS/WR/004477 Original Start Date: 07/12/2010 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 21/12/2010 Version End Date: -
J	1107m SE	Status: Historical Licence No: 2/27/24/409 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SELBY DISTRICT Data Type: Point Name: H R FELL & SONS LTD Easting: 467270 Northing: 440880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 19/12/2000 Expiry Date: 31/10/2010 Issue No: 1 Version Start Date: 19/12/2000 Version End Date: -

ID	Location	Details	
J	1107m SE	Status: Historical Licence No: 2/27/24/409 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SELBY Data Type: Point Name: H R FELL & SONS LTD Easting: 467270 Northing: 440880	Annual Volume (m^3): 114000 Max Daily Volume (m^3): 1440 Original Application No: - Original Start Date: 19/12/2000 Expiry Date: 31/10/2010 Issue No: 1 Version Start Date: 19/12/2001 Version End Date: -
-	1198m N	Status: Historical Licence No: 2/27/24/400 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE B Data Type: Point Name: RJB MINING (UK) LTD Easting: 464760 Northing: 444340	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/05/2000 Expiry Date: 30/04/2003 Issue No: 2 Version Start Date: 31/05/2000 Version End Date: -
-	1198m N	Status: Historical Licence No: 2/27/24/430 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE B - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: UK COAL MINING LTD Easting: 464760 Northing: 444340	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/05/2003 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 30/05/2003 Version End Date: -
-	1198m N	Status: Historical Licence No: 2/27/24/430 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE B - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Harworth Estates Investments Ltd Easting: 464760 Northing: 444340	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 30/05/2003 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 03/09/2013 Version End Date: -

ID	Location	Details	
-	1205m N	Status: Active Licence No: 2/27/24/430/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE B - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: Harworth Estates Investments Ltd Easting: 464771 Northing: 444349	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 24/08/2018 Version End Date: -
-	1319m NW	Status: Historical Licence No: 2/27/24/345 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: G HEADLEY Easting: 462590 Northing: 443220	Annual Volume (m^3): 50790 Max Daily Volume (m^3): 1143 Original Application No: - Original Start Date: 11/06/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 11/06/1997 Version End Date: -
-	1323m NW	Status: Active Licence No: 2/27/24/460/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: G HEADLEY Easting: 462609 Northing: 443266	Annual Volume (m^3): 67500 Max Daily Volume (m^3): 1143 Original Application No: NPS/WR/017386 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1323m NW	Status: Historical Licence No: 2/27/24/460 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: G HEADLEY Easting: 462609 Northing: 443266	Annual Volume (m^3): 67500 Max Daily Volume (m^3): 1143 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 05/07/2011 Version End Date: -
-	1342m NW	Status: Historical Licence No: 2/27/24/460 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - ESCRICK Data Type: Point Name: G HEADLEY Easting: 462590 Northing: 443270	Annual Volume (m^3): 67500 Max Daily Volume (m^3): 1143 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 05/07/2011 Version End Date: -

ID	Location	Details	
-	1523m SE	Status: Active Licence No: NE/027/0024/025/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORGANBY LODGE Data Type: Point Name: McNeil Easting: 467526 Northing: 440358	Annual Volume (m^3): 36000 Max Daily Volume (m^3): 950 Original Application No: NPS/WR/035510 Original Start Date: 19/07/2022 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 19/07/2022 Version End Date: -
-	1523m SE	Status: Historical Licence No: NE/027/0024/025 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORGANBY LODGE Data Type: Point Name: McNeil Easting: 467526 Northing: 440358	Annual Volume (m^3): 36000 Max Daily Volume (m^3): 950 Original Application No: - Original Start Date: 13/10/2011 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 13/10/2011 Version End Date: -
-	1523m SE	Status: Historical Licence No: NE/027/0024/025/L Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORGANBY LODGE Data Type: Point Name: McNeil Easting: 467526 Northing: 440358	Annual Volume (m^3): 36000 Max Daily Volume (m^3): 950 Original Application No: NPS/WR/004850 Original Start Date: 01/04/2022 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2022 Version End Date: -
-	1779m S	Status: Active Licence No: 2/27/24/217 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: K R & M C DIXON & SONS Easting: 464749 Northing: 438961	Annual Volume (m^3): 130000 Max Daily Volume (m^3): 2700 Original Application No: NPS/WR/030612 Original Start Date: 27/02/1986 Expiry Date: - Issue No: 105 Version Start Date: 28/06/2019 Version End Date: -

ID	Location	Details	
-	1780m S	Status: Historical Licence No: 2/27/24/217 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: K R & M C DIXON & SONS Easting: 464750 Northing: 438960	Annual Volume (m^3): 61430 Max Daily Volume (m^3): 2700 Original Application No: - Original Start Date: 27/02/1986 Expiry Date: - Issue No: 103 Version Start Date: 22/10/2012 Version End Date: -
-	1835m SE	Status: Active Licence No: 2/27/28/086 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - NORTH DUFFIELD Data Type: Point Name: H R FELL & SONS LTD Easting: 467400 Northing: 439700	Annual Volume (m^3): 125000 Max Daily Volume (m^3): 1636 Original Application No: 5269 Original Start Date: 01/03/1974 Expiry Date: - Issue No: 100 Version Start Date: 21/10/2010 Version End Date: -
-	1835m SE	Status: Historical Licence No: 2/27/28/086 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: H R FELL & SONS LTD Easting: 467400 Northing: 439700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/03/1974 Expiry Date: - Issue No: 100 Version Start Date: 23/01/1992 Version End Date: -
-	1849m S	Status: Historical Licence No: 2/27/24/217 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: K R & M C DIXON & SONS Easting: 464700 Northing: 438900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/02/1986 Expiry Date: - Issue No: 100 Version Start Date: 27/02/1986 Version End Date: -
-	1849m S	Status: Historical Licence No: 2/27/24/217 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - SKIPWITH Data Type: Point Name: K R & M C DIXON & SONS Easting: 464700 Northing: 438900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/02/1986 Expiry Date: - Issue No: 100 Version Start Date: 27/02/1986 Version End Date: -

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

6.7 Surface water abstractions

Records within 2000m	2

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 50 >**

ID	Location	Details	
1	**On site**	**Status: Active** **Licence No: NE/027/0024/049** **Details: Spray Irrigation - Direct** **Direct Source: SURFACE WATER** **Point: PALLION DIKE THORGANBY TO DAM DIKE SKIPWITH** **Data Type: Line** **Name: Escrick Park Home Farm** **Easting: 466180** **Northing: 441070**	**Annual Volume (m^3): 54900** **Max Daily Volume (m^3): 1260** **Original Application No: NPS/WR/013071** **Original Start Date: 20/08/2013** **Expiry Date: 31/03/2027** **Issue No: 1** **Version Start Date: 20/08/2013** **Version End Date: -**
-	1056m W	Status: Active Licence No: NE/027/0024/066 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BRIDGE DIKE AT ESCRICK Data Type: Line Name: Escrick Park Home Farm Easting: 462738 Northing: 442330	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 1400 Original Application No: NPS/WR/025440 Original Start Date: 12/06/2017 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 12/06/2017 Version End Date: -

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

6.8 Potable abstractions

Records within 2000m	2

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 50 >**

ID	Location	Details	
I	1013m N	Status: Historical Licence No: 2/27/24/400 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE A Data Type: Point Name: RJB MINING (UK) LTD Easting: 464520 Northing: 444120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/05/2000 Expiry Date: 30/04/2003 Issue No: 2 Version Start Date: 31/05/2000 Version End Date: -
-	1198m N	Status: Historical Licence No: 2/27/24/400 Details: Potable Water Supply - Direct Direct Source: GROUNDWATERS Point: BOREHOLE B Data Type: Point Name: RJB MINING (UK) LTD Easting: 464760 Northing: 444340	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/05/2000 Expiry Date: 30/04/2003 Issue No: 2 Version Start Date: 31/05/2000 Version End Date: -

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

6.9 Source Protection Zones

Records within 500m	**1**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 50 >**

ID	Location	Type	Description
C	330m SE	1	Inner catchment

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

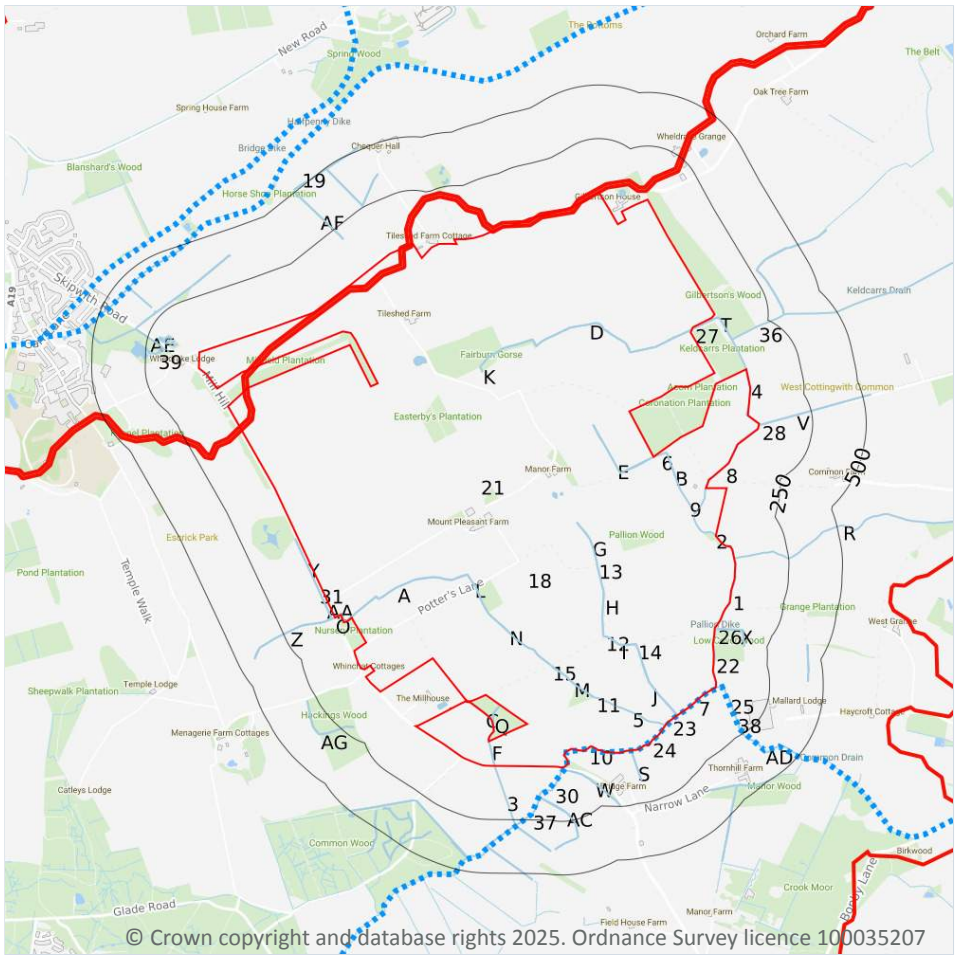
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	62

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

Features are displayed on the Hydrology map on **page 67 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Keldcarrs Drain
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
11	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
12	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
13	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
14	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
15	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
L	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
L	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
L	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
M	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
N	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
O	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
22	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Pallion Dike**
Q	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
23	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
24	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Pallion Dike
R	2m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	3m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
26	3m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
27	3m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
28	3m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain
T	6m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	12m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
W	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dam Dike
X	12m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	12m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	14m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	16m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	16m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	16m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
36	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Keldcarrs Drain
37	144m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Dam Dike
AC	144m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
38	165m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain
AD	175m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
39	179m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	179m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	188m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	206m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	**24**

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 67 >**

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site	2

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

Features are displayed on the Hydrology map on **page 67 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
18	**On site**	**River**	**Riccall Dam Catchment (trib of Ouse)**	**GB104027063690**	**Ouse Lower Yorkshire**	**Wharfe and Ouse Lower**
19	**On site**	**River**	**Stillingfleet Beck Source to Ouse**	**GB104027063710**	**Ouse Lower Yorkshire**	**Wharfe and Ouse Lower**

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

7.4 WFD Surface water bodies

Records identified	2

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

Features are displayed on the Hydrology map on **page 67 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
20	**On site**	**River**	**Riccall Dam Catchment (trib of Ouse)**	**GB104027063690 ↗**	**Moderate**	**Fail**	**Moderate**	**2019**
58	445m NW	River	Stillingfleet Beck Source to Ouse	GB104027063710 ↗	Moderate	Fail	Moderate	2019

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

7.5 WFD Groundwater bodies

Records on site	1

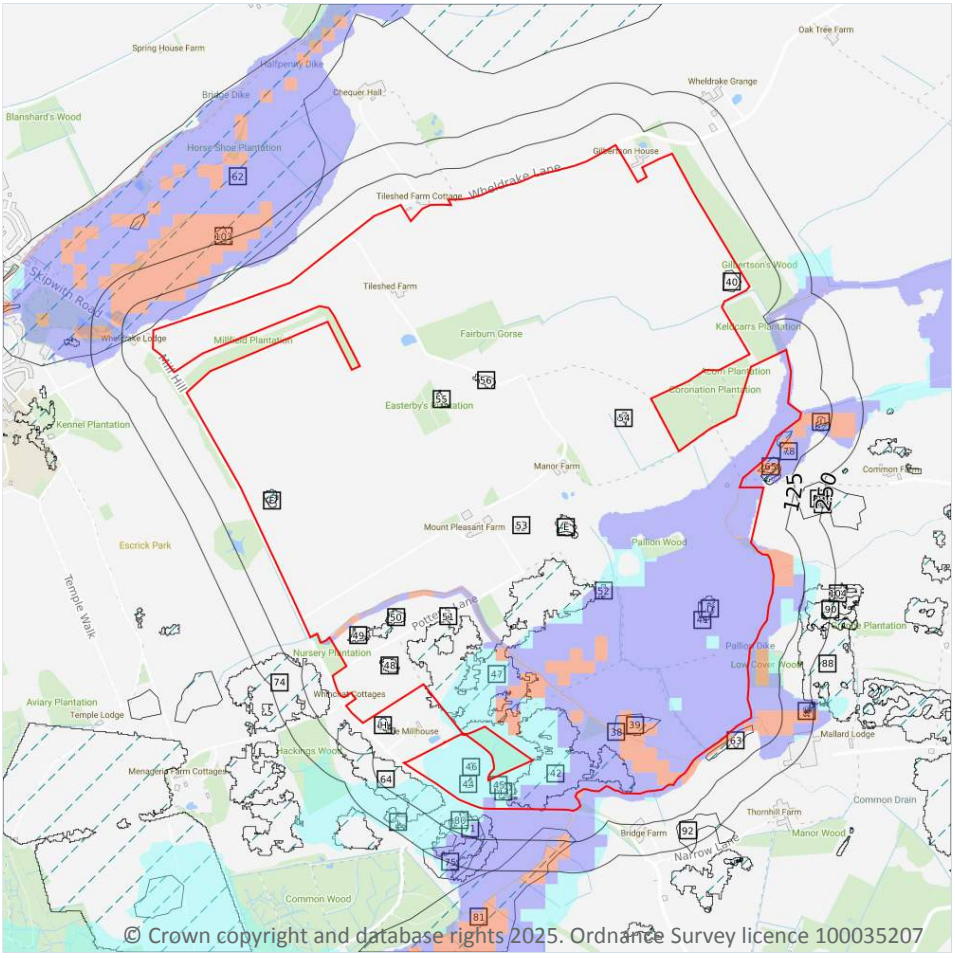
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 67 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
21	**On site**	**Wharfe & Lower Ouse Sherwood Sandstone**	**GB40401G702400** ↗	**Poor**	**Poor**	**Good**	**2019**

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

8 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

8.1 Risk of flooding from rivers and the sea

Records within 50m	59

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

Features are displayed on the River and coastal flooding map on **page 75 >**

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

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

8.2 Historical Flood Events

Records within 250m	**53**

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

Features are displayed on the River and coastal flooding map on **page 75 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
38	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Ordinary watercourse**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
39	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Ordinary watercourse**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
40	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Ordinary watercourse**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
41	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
42	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
43	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
44	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
45	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
46	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
47	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
48	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
49	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
50	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
51	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
52	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
53	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
54	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
55	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
56	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
D	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
D	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
E	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
E	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
F	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
F	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
G	3m E	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
62	13m W	1978 Flood Event	1978-12-01 1978-12-31	Unknown	Overtopping of defences	Fluvial
63	15m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
64	15m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
65	15m E	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
C	20m E	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
H	24m SW	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
C	24m E	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
71	26m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
74	35m SW	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
75	36m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
78	55m E	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
H	61m SW	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
I	68m E	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
I	71m E	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
80	72m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
81	74m S	1978 Flood Event	1978-12-01 1978-12-31	Unknown	Overtopping of defences	Fluvial
88	117m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
89	134m E	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
90	143m SE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
92	147m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
J	205m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
J	209m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
K	210m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
K	214m SE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
103	227m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
104	231m E	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
105	232m E	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data

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

8.3 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.

8.4 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.

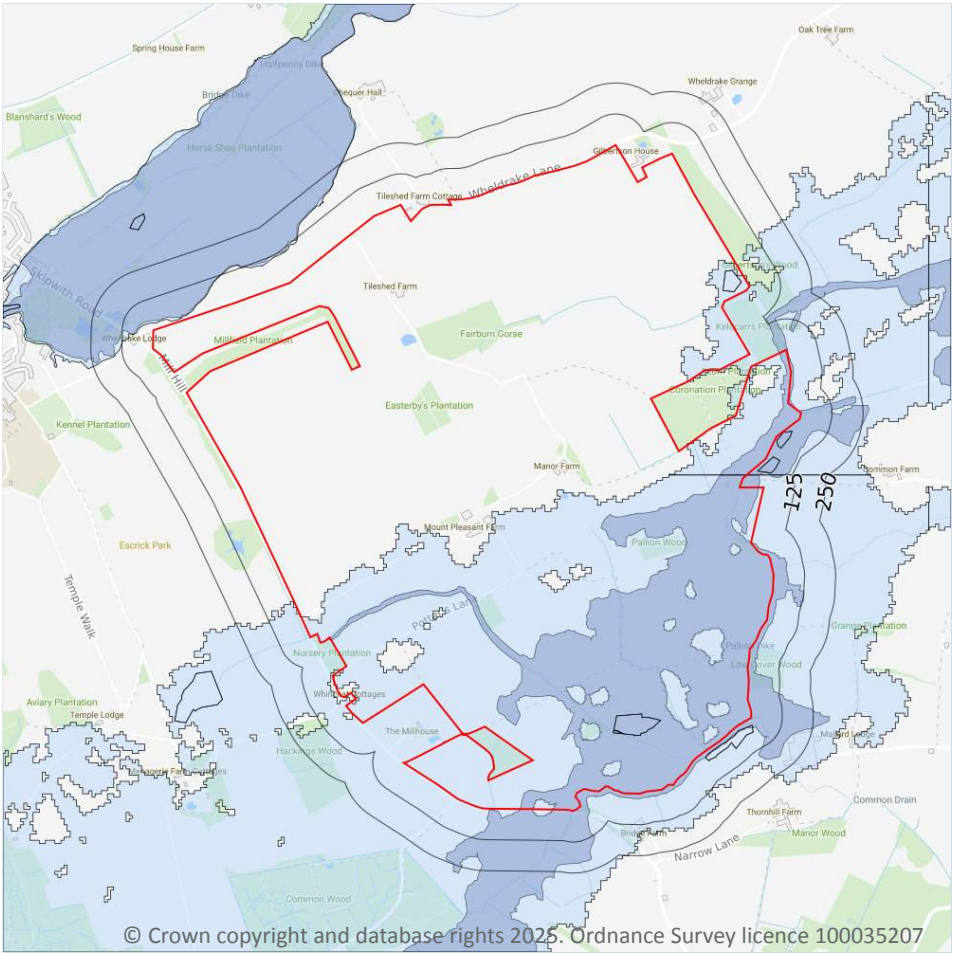
8.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

8.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 75 >**

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

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

8.7 Flood Zone 3

Records within 50m	1

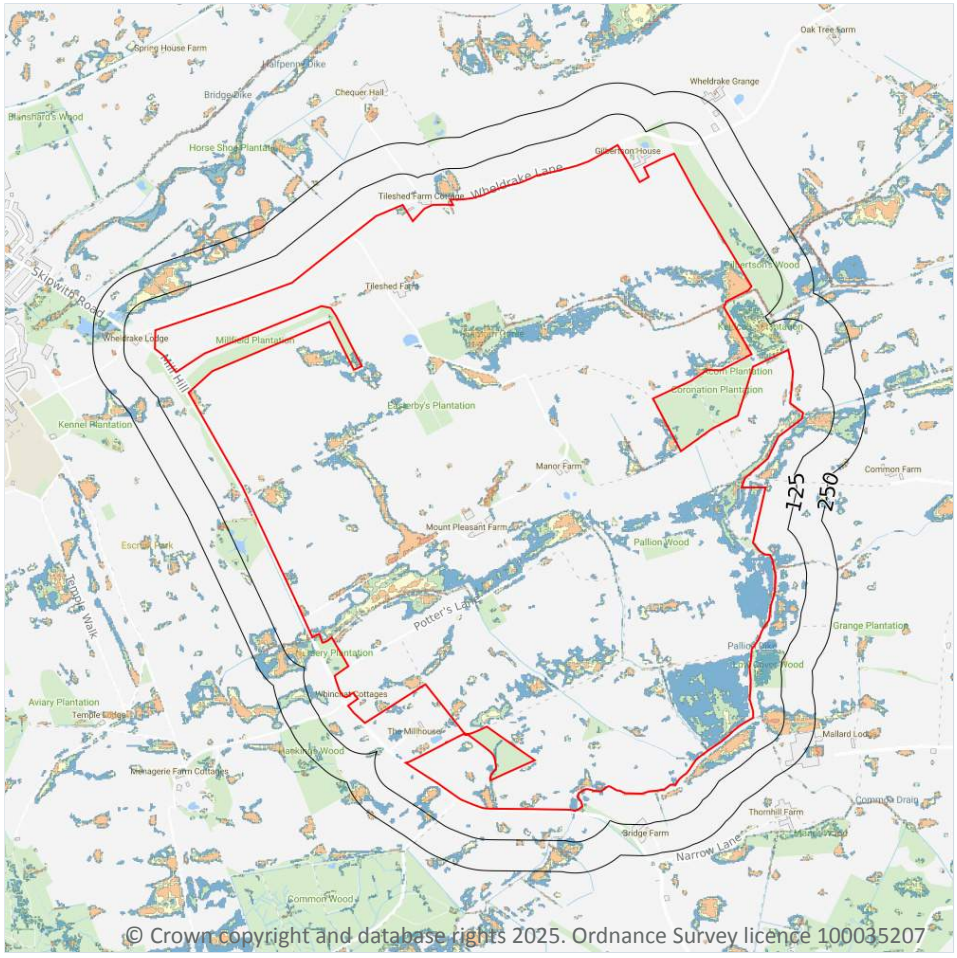
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 75 >**

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

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

9 Surface water flooding



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9.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 83 >**

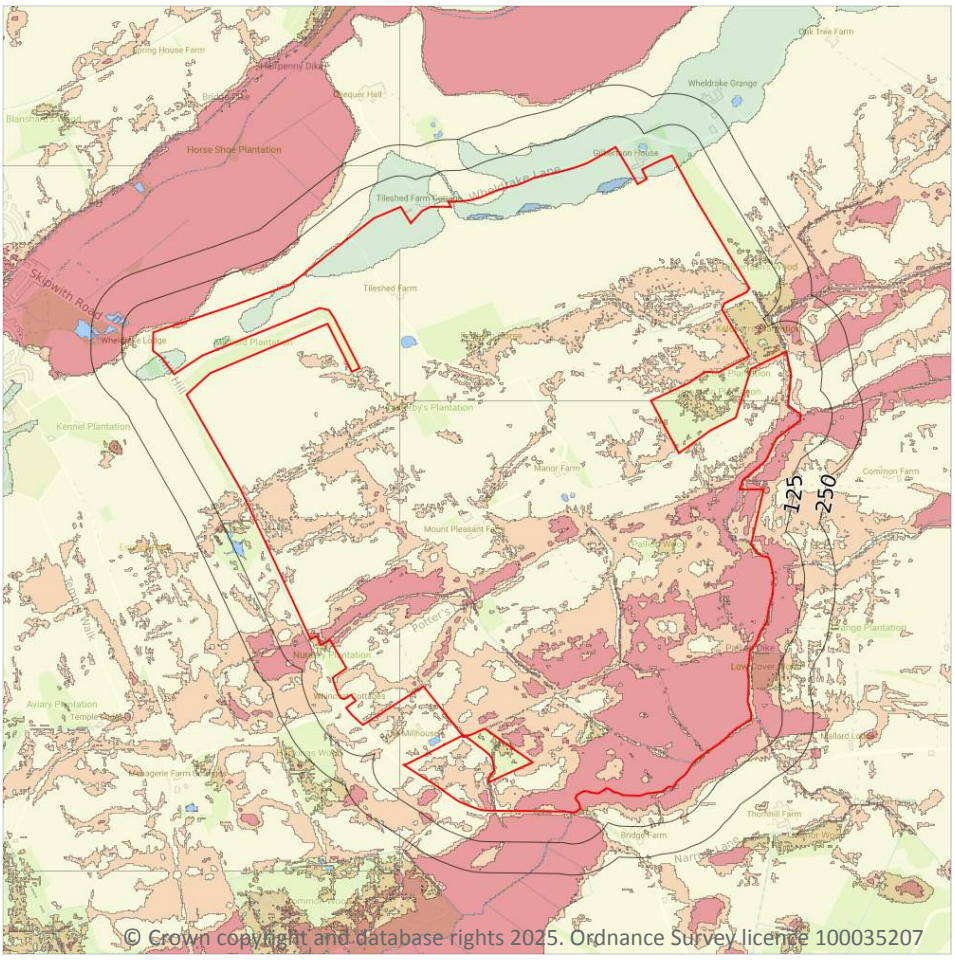
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

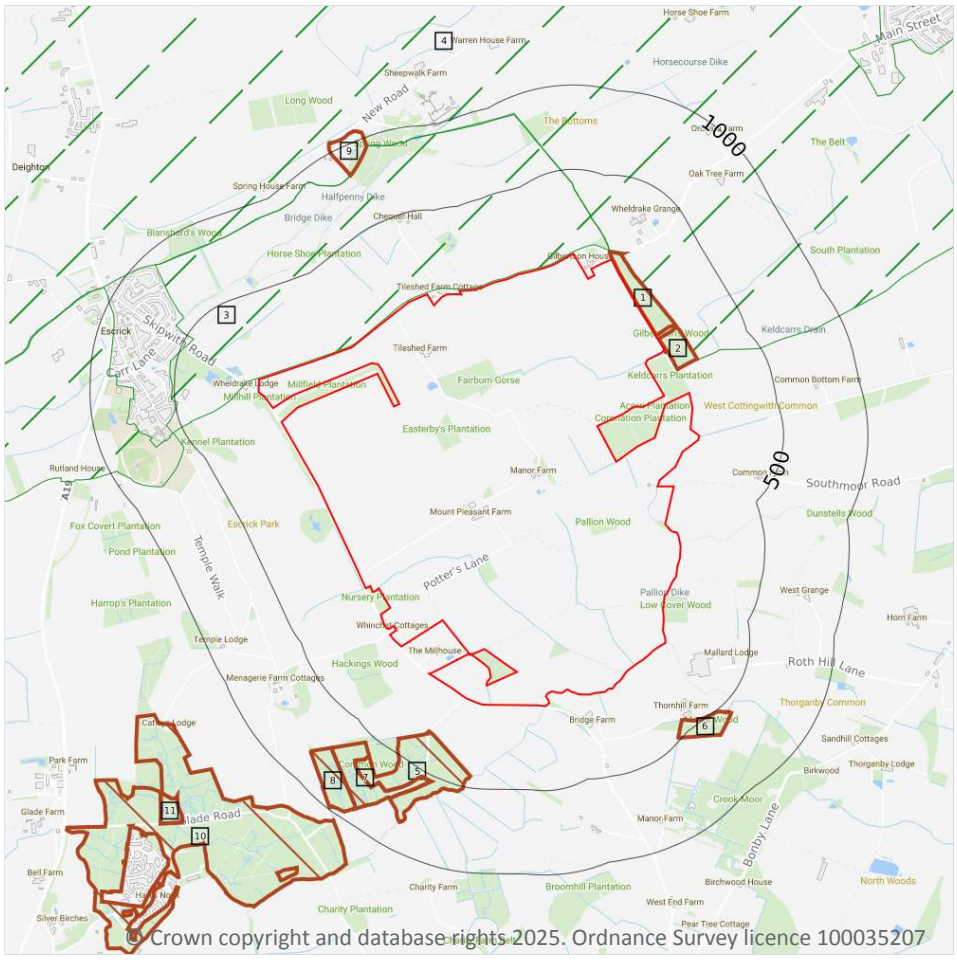
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 85 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



Site Outline

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- Conserved wetland sites (Ramsar sites)
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- National Nature Reserves (NNR)
- Designated Ancient Woodland
- Green Belt

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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.

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

11.3 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.

11.4 Special Protection Areas (SPA)

Records within 2000m	0

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.

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

11.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

11.6 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.

11.7 Designated Ancient Woodland

Records within 2000m	9

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.

Features are displayed on the Environmental designations map on **page 86 >**

ID	Location	Name	Woodland Type
1	2m NE	Gilbertsons Wood	Ancient Replanted Woodland
2	5m NE	Gilbertsons Wood	Ancient Replanted Woodland
5	286m S	Unknown	Ancient Replanted Woodland
6	427m SE	Manor Wood	Ancient Replanted Woodland
7	533m S	Unknown	Ancient Replanted Woodland
8	726m SW	Unknown	Ancient Replanted Woodland
9	826m NW	Spring Wood	Ancient Replanted Woodland
10	1038m SW	Holly Carrs/hart Nooking	Ancient Replanted Woodland
11	1588m SW	Holly Carrs/hart Nooking	Ancient & Semi-Natural Woodland

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

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 86 >**

ID	Location	Name	Local Authority name
3	5m NW	York Green Belt	Selby
4	53m NE	York Green Belt	York

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

11.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

Records within 2000m	5

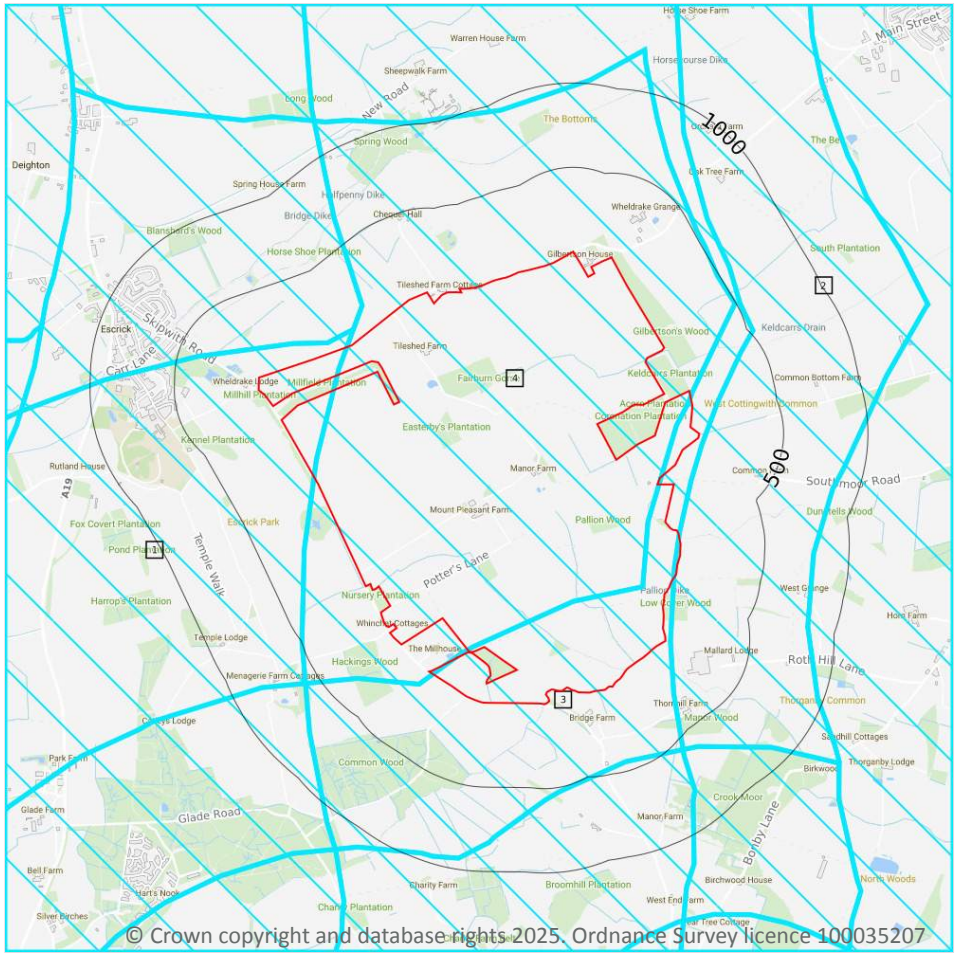
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Riccall Dam Catchment (trib of Ouse) NVZ**	**Surface Water**	**288**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**Riccall Dam Catchment (trib of Ouse) NVZ**	**Surface Water**	**288**	**Existing**
On site	**Ouse from Naburn to Sillingfleet NVZ**	**Surface Water**	**289**	**Existing**
On site	**Ouse from Naburn to Sillingfleet NVZ**	**Surface Water**	**289**	**Existing**
1670m S	Lowmoor Drain Catch (trib of Derwent) NVZ	Surface Water	282	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

11.17 SSSI Impact Risk Zones

Records on site	4

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 92 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**
2	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**
3	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**

ID	Location	Type of developments requiring consultation
4	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries: new proposals or extensions, outside or extending outside existing settlements/urban areas affecting greenspace, farmland or semi natural habitats. Oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.** **Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.** **Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.** **Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**

This data is sourced from Natural England.

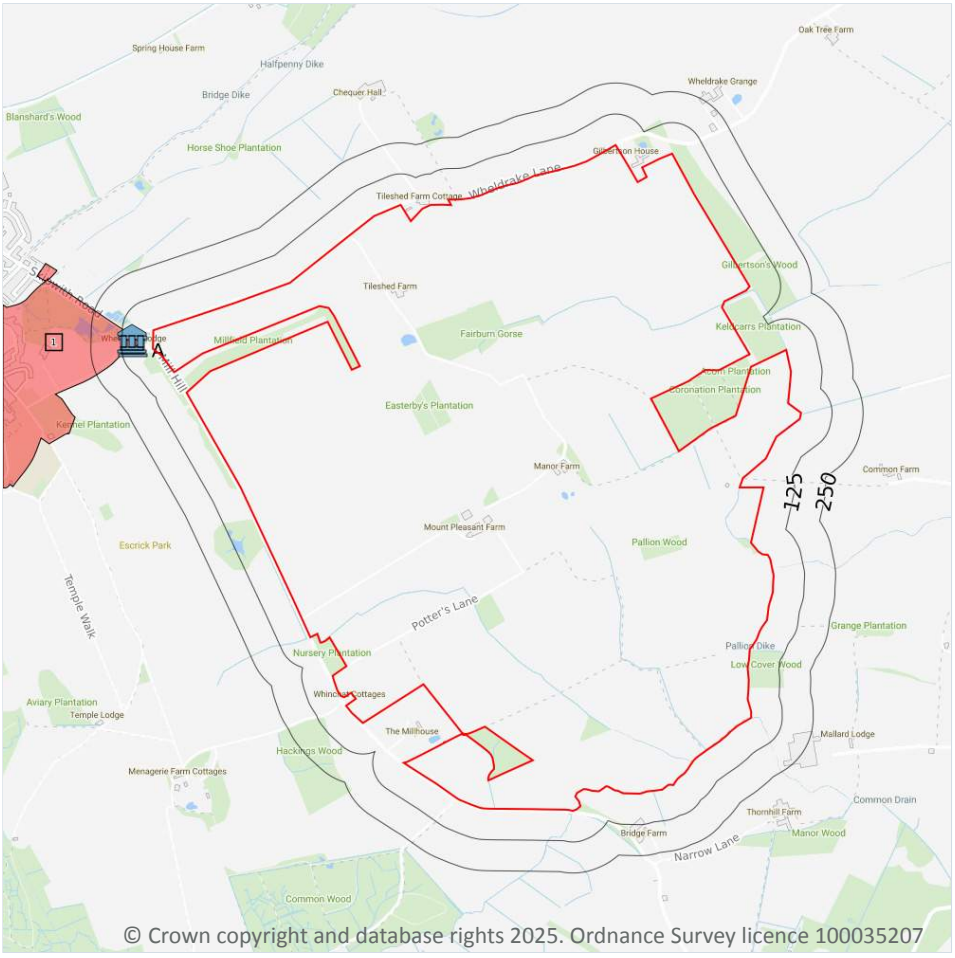
11.18 SSSI Units

Records within 2000m	0

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.

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

12 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m	2

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.

Features are displayed on the Visual and cultural designations map on **page 95 >**

ID	Location	Name	Grade	Reference Number	Listed date
A	82m W	Wheldrake Lodge	II	1148456	17/11/1966
A	84m W	Gates, Piers And Railings At Wheldrake Lodge	II	1316305	17/11/1966

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

12.5 Conservation Areas

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 95 >**

ID	Location	Name	District	Date of designation
1	50m W	Escrick	Selby	13/02/1992

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

12.6 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.

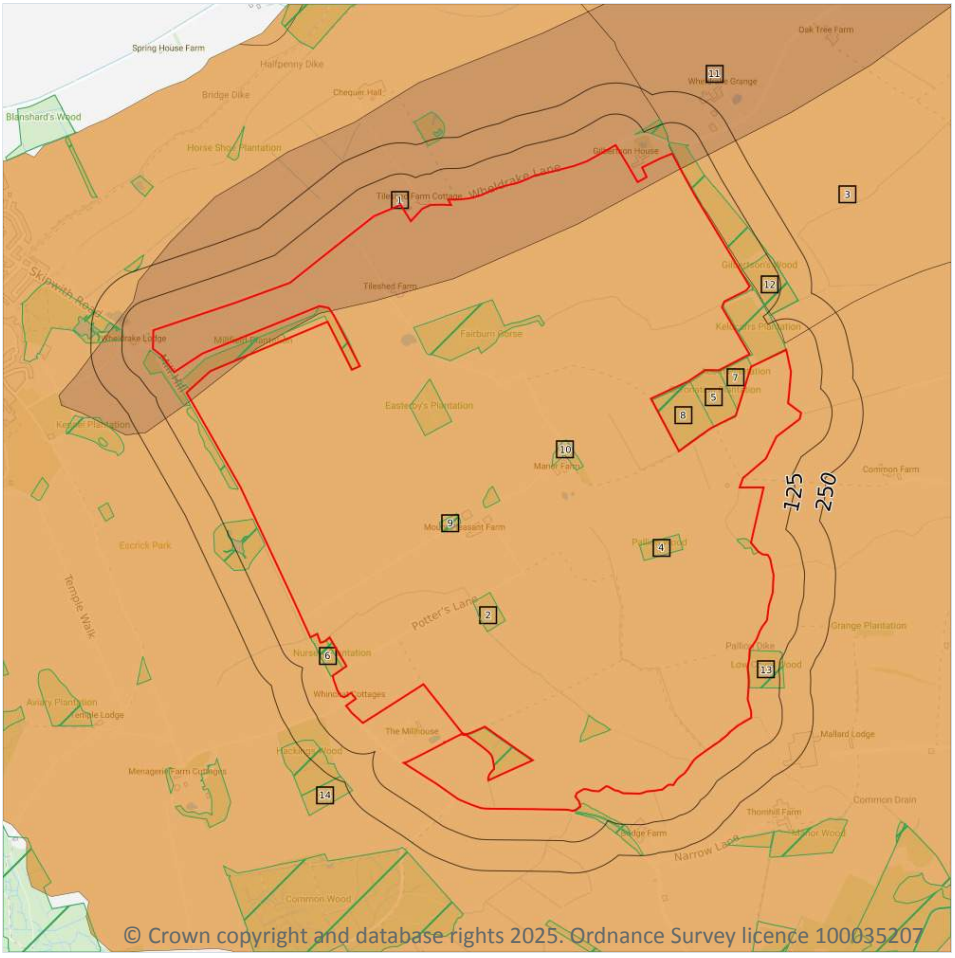
12.7 Registered Parks and Gardens

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.

13 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

13.1 Agricultural Land Classification

Records within 250m	4

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 98 >**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
3	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
11	1m NE	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

13.2 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.

13.3 Tree Felling Licences

Records within 250m	10

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.

Features are displayed on the Agricultural designations map on **page 98 >**

ID	Location	Description	Reference	Application date
4	**On site**	**Clear Fell (Conditional)**	**012/81/17-18**	**20/12/2017**
5	**On site**	**Selective Fell/Thin (Conditional)**	**012/81/17-18**	**20/12/2017**
6	**On site**	**Selective Fell/Thin (Unconditional)**	**012/176/08-09**	**24/03/2009**
7	**On site**	**Selective Fell/Thin (Unconditional)**	**012/178/08-09**	**24/03/2009**
8	**On site**	**Selective Fell/Thin (Unconditional)**	**012/179/08-09**	**24/03/2009**
9	**On site**	**Selective Fell/Thin (Unconditional)**	**012/30/12-13**	**20/06/2012**
10	**On site**	**Selective Fell/Thin (Unconditional)**	**012/30/12-13**	**20/06/2012**
12	1m NE	Selective Fell/Thin (Unconditional)	012/177/08-09	24/03/2009
13	2m SE	Selective Fell/Thin (Conditional)	012/017/11-12	-
14	233m SW	Clear Fell (Conditional)	012/81/17-18	20/12/2017

This data is sourced from the Forestry Commission.

13.4 Environmental Stewardship Schemes

Records within 250m	**11**

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

Location	Reference	Scheme	Start Date	End date
On site	**AG00396388**	**Entry Level plus Higher Level Stewardship**	**01/09/2012**	**31/08/2023**
On site	**AG00397643**	**Entry Level plus Higher Level Stewardship**	**01/02/2012**	**31/01/2023**
3m NW	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
6m N	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
7m N	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
8m S	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
9m W	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
51m NE	AG00249963	Entry Level plus Higher Level Stewardship	01/09/2010	31/08/2023
62m NE	AG00249963	Entry Level plus Higher Level Stewardship	01/09/2010	31/08/2023
123m W	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023
247m NW	AG00396388	Entry Level plus Higher Level Stewardship	01/09/2012	31/08/2023

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

Records within 250m	33

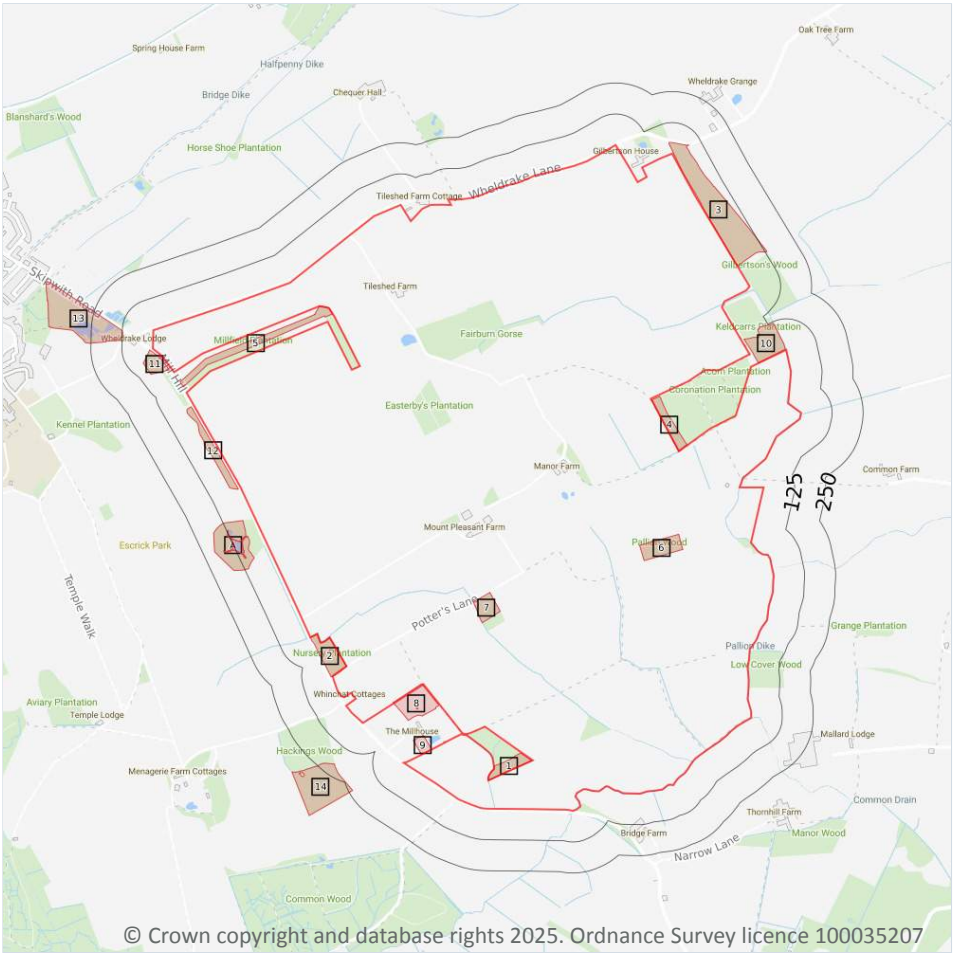
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	**1686450**	**Countryside Stewardship (Middle Tier)**	**01/01/2024**	**31/12/2028**
On site	**1686450**	**Countryside Stewardship (Middle Tier)**	**01/01/2024**	**31/12/2028**
On site	**1686450**	**Countryside Stewardship (Middle Tier)**	**01/01/2024**	**31/12/2028**
On site	**1686450**	**Countryside Stewardship (Middle Tier)**	**01/01/2024**	**31/12/2028**
On site	**1459134**	**Countryside Stewardship (Middle Tier)**	**01/01/2023**	**31/12/2027**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
On site	**807564**	**Countryside Stewardship (Higher Tier)**	**01/01/2020**	**31/12/2024**
1m S	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
5m NW	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
6m S	1459134	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
6m S	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
8m NW	469256	Countryside Stewardship (Higher Tier)	01/01/2018	31/12/2027
8m N	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
9m S	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028

Location	Reference	Scheme	Start Date	End Date
9m W	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
9m W	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
9m N	1686450	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
9m W	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
11m W	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
59m NE	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
69m S	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
100m SW	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
130m W	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
231m N	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024
249m NW	807564	Countryside Stewardship (Higher Tier)	01/01/2020	31/12/2024

This data is sourced from Natural England.

14 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

14.1 Priority Habitat Inventory

Records within 250m	16

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

Features are displayed on the Habitat designations map on **page 103 >**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
8	**On site**	**Good quality semi-improved grassland**	**Main habitat: GQSIG (FEP + HLS); Additional: LDAGR (FEP 50%)**
9	**On site**	**Traditional orchard**	**Overruled by Traditional Orchards HAP Inventory dataset**
10	1m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	9m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	11m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	48m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	58m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	124m W	Deciduous woodland	Main habitat: RBEDS (INV > 50%); DWOOD (INV > 50%)
14	201m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

14.2 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.

14.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

14.4 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.

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 ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Groundsure LOCATION INTELLIGENCE

Geo Insight

302939-00 LVS - Site 1

Order Details

Date: 09/01/2025

Your ref: 302939-00 LVS Site 1

Our Ref: GS-14B-3OU-AQ4-HC1

Site Details

Location: 465226 442049

Area: 436.97 ha

Authority: The North Yorkshire Council ↗, City of York Council ↗

Summary of findings p. 2 >

Aerial image p. 5 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
10 >	1.1 >	10k Availability >	Identified (within 500m)				
11 >	1.2 >	Artificial and made ground (10k) >	1	2	6	4	-
13 >	1.3 >	Superficial geology (10k) >	11	4	3	6	-
14	1.4	Landslip (10k)	0	0	0	0	-
15 >	1.5 >	Bedrock geology (10k) >	6	0	0	0	-
16 >	1.6 >	Bedrock faults and other linear features (10k) >	7	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
17 >	2.1 >	50k Availability >	Identified (within 500m)				
18 >	2.2 >	Artificial and made ground (50k) >	0	0	2	0	-
19	2.3	Artificial ground permeability (50k)	0	0	-	-	-
20 >	2.4 >	Superficial geology (50k) >	7	2	3	5	-
21 >	2.5 >	Superficial permeability (50k) >	Identified (within 50m)				
22	2.6	Landslip (50k)	0	0	0	0	-
22	2.7	Landslip permeability (50k)	None (within 50m)				
23 >	2.8 >	Bedrock geology (50k) >	3	0	0	0	-
24 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
24 >	2.10 >	Bedrock faults and other linear features (50k) >	4	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	3.1 >	BGS Boreholes >	5	3	6	-	-
Page	Section	Natural ground subsidence >					
27 >	4.1 >	Shrink swell clays >	Low (within 50m)				
29 >	4.2 >	Running sands >	Low (within 50m)				
31 >	4.3 >	Compressible deposits >	Moderate (within 50m)				
33 >	4.4 >	Collapsible deposits >	Very low (within 50m)				
35 >	4.5 >	Landslides >	Very low (within 50m)				
36 >	4.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				

Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	5.1 >	BritPits >	1	2	1	3	-
40 >	5.2 >	Surface ground workings >	9	13	16	-	-
41 >	5.3 >	Underground workings >	0	0	0	0	1
42	5.4	Underground mining extents	0	0	0	0	-
42	5.5	Historical Mineral Planning Areas	0	0	0	0	-
42	5.6	Non-coal mining	0	0	0	0	0
42	5.7	JPB mining areas	None (within 0m)				
43	5.8	The Coal Authority non-coal mining	0	0	0	0	-
43	5.9	Researched mining	0	0	0	0	-
43	5.10	Mining record office plans	0	0	0	0	-
43	5.11	BGS mine plans	0	0	0	0	-
44 >	5.12 >	Coal mining >	Identified (within 0m)				
44	5.13	Brine areas	None (within 0m)				
44	5.14	Gypsum areas	None (within 0m)				
44	5.15	Tin mining	None (within 0m)				
44	5.16	Clay mining	None (within 0m)				

Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
45	6.1	Natural cavities	0	0	0	0	-
46	6.2	Mining cavities	0	0	0	0	0
46	6.3	Reported recent incidents	0	0	0	0	-
46 >	6.4 >	Historical incidents >	0	0	0	1	-

Page	Section	Radon >	
47 >	7.1 >	Radon >	Less than 1% (within 0m)

Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
49 >	8.1 >	BGS Estimated Background Soil Chemistry >	82	5	-	-	-
52	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
52	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m

53	9.1	Underground railways (London)	0	0	0	-	-
53	9.2	Underground railways (Non-London)	0	0	0	-	-
53	9.3	Railway tunnels	0	0	0	-	-
53	9.4	Historical railway and tunnel features	0	0	0	-	-
53	9.5	Royal Mail tunnels	0	0	0	-	-
54	9.6	Historical railways	0	0	0	-	-
54	9.7	Railways	0	0	0	-	-
54	9.8	Crossrail 2	0	0	0	0	-
54	9.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 436.97ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 436.97ha

Recent site history - 2014 aerial photograph

Capture Date: 16/04/2014

Site Area: 436.97ha

Recent site history - 2007 aerial photograph

Capture Date: 05/04/2007

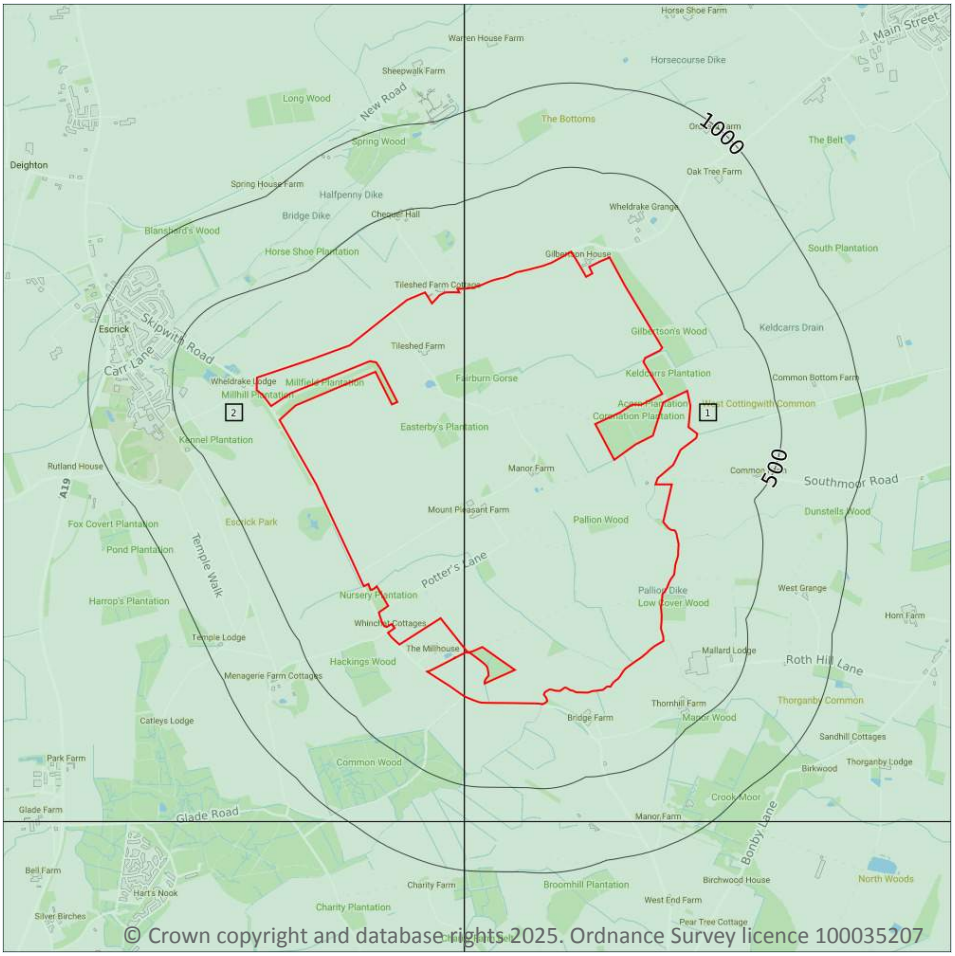
Site Area: 436.97ha

Recent site history - 1999 aerial photograph

Capture Date: 20/05/1999

Site Area: 436.97ha

1 Geology 1:10,000 scale - Availability



1.1 10k Availability

Records within 500m	2

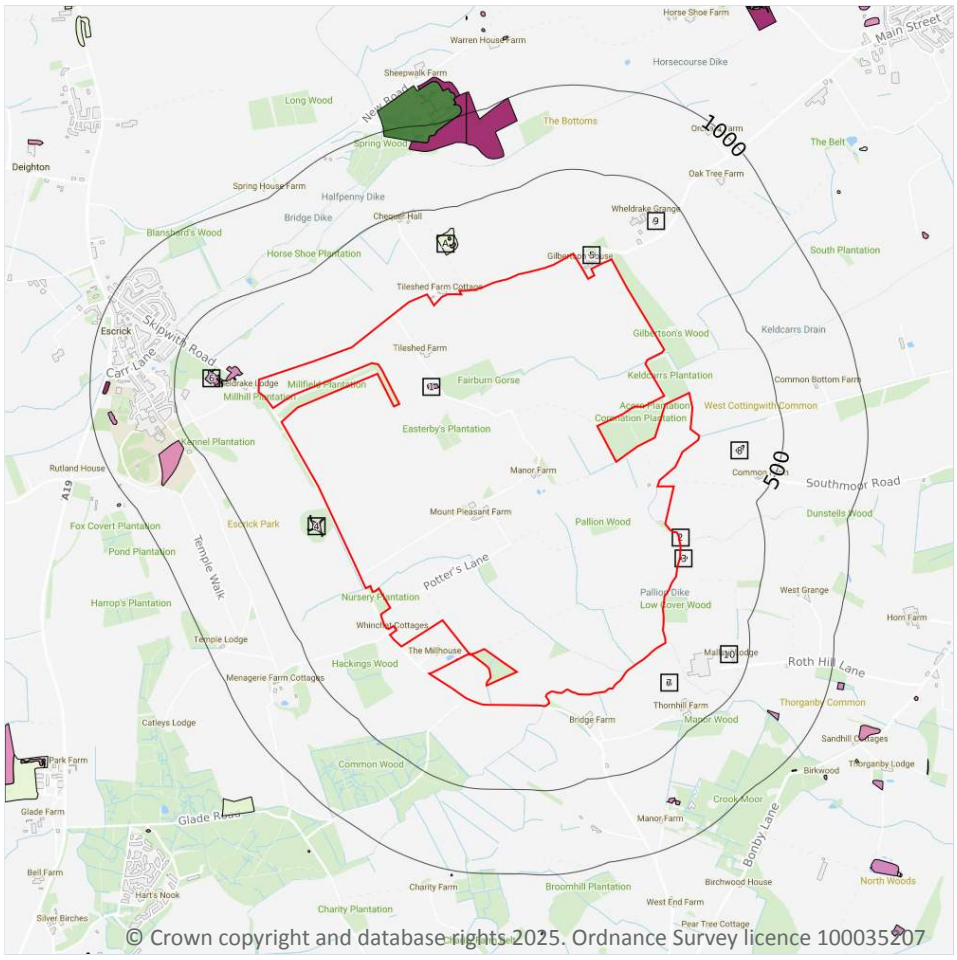
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SE64SE
2	On site	Full	Full	Full	No coverage	SE64SW

This data is sourced from the British Geological Survey.

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



1.2 Artificial and made ground (10k)

Records within 500m	13

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.

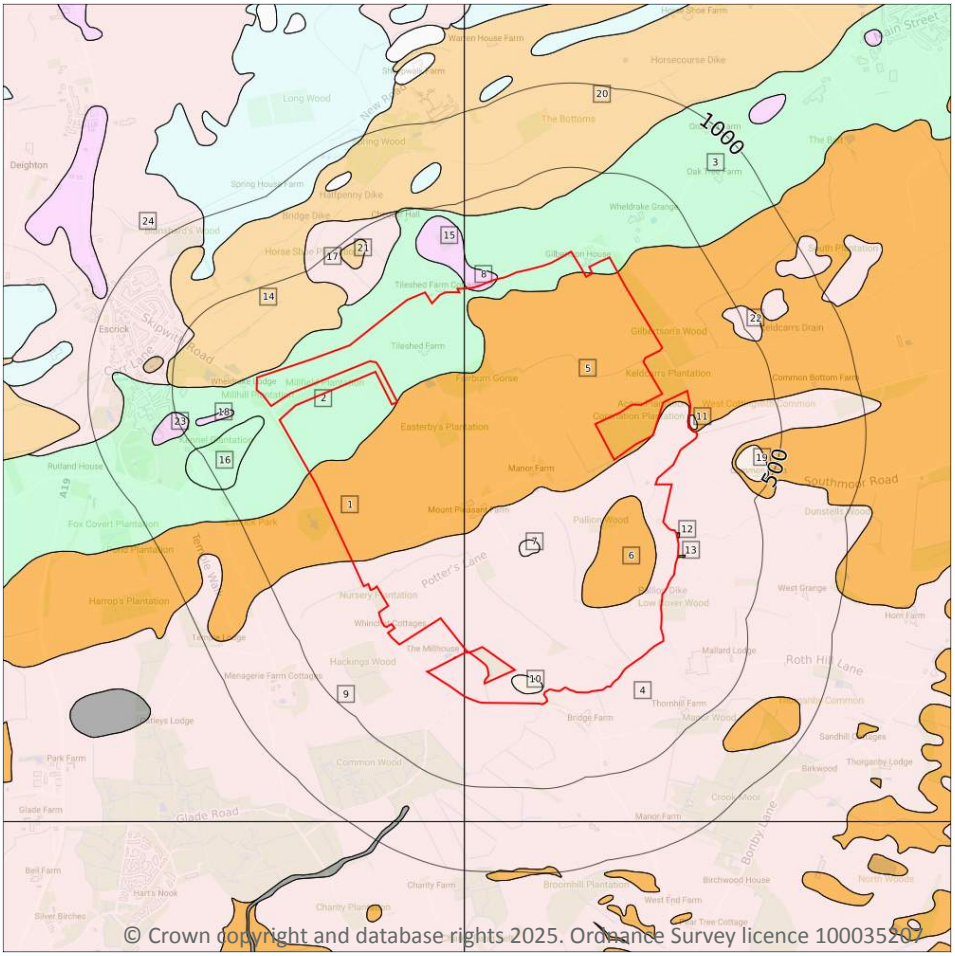
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 11 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
2	1m E	WGR-VOID	Worked Ground (Undivided)	Void
3	2m SE	WGR-VOID	Worked Ground (Undivided)	Void
4	54m W	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	56m N	WGR-VOID	Worked Ground (Undivided)	Void
6	104m W	WGR-VOID	Worked Ground (Undivided)	Void
7	187m SE	WGR-VOID	Worked Ground (Undivided)	Void
A	225m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	232m E	WGR-VOID	Worked Ground (Undivided)	Void
A	259m N	WGR-VOID	Worked Ground (Undivided)	Void
A	306m N	WGR-VOID	Worked Ground (Undivided)	Void
9	332m NE	WGR-VOID	Worked Ground (Undivided)	Void
10	375m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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1.3 Superficial geology (10k)

Records within 500m **24**

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 13 >**

ID	Location	LEX Code	Description	Rock description
1	On site	THOR-CZ	Thorganby Clay Member - Silty Clay	Clay, Silty
2	On site	ESKRM-CSV	Escrick Moraine Member - Sandy Gravelly Clay	Clay, Sandy, Gravelly
3	On site	ESKRM-CSV	Escrick Moraine Member - Sandy Gravelly Clay	Clay, Sandy, Gravelly
4	On site	SKIS-SCV	Skipwith Sand Member - Clayey Gravelly Sand	Sand, Clayey, Gravelly

ID	Location	LEX Code	Description	Rock description
5	**On site**	**THOR-CZ**	**Thorganby Clay Member - Silty Clay**	**Clay, Silty**
6	**On site**	**THOR-CZ**	**Thorganby Clay Member - Silty Clay**	**Clay, Silty**
7	**On site**	**SUTN-S**	**Sutton Sand Formation - Sand**	**Sand**
8	**On site**	**ESKRM-SV**	**Escrick Moraine Member - Gravelly Sand**	**Sand, Gravelly**
9	**On site**	**SKIS-SCV**	**Skipwith Sand Member - Clayey Gravelly Sand**	**Sand, Clayey, Gravelly**
10	**On site**	**SUTN-S**	**Sutton Sand Formation - Sand**	**Sand**
11	**On site**	**SUTN-S**	**Sutton Sand Formation - Sand**	**Sand**
12	1m E	THOR-CZ	Thorganby Clay Member - Silty Clay	Clay, Silty
13	2m SE	THOR-CZ	Thorganby Clay Member - Silty Clay	Clay, Silty
14	18m NW	ELV-CZ	Elvington Glaciolacustrine Formation - Silty Clay	Clay, Silty
15	26m N	ESKRM-SV	Escrick Moraine Member - Gravelly Sand	Sand, Gravelly
16	86m W	ESKRM-CZ	Escrick Moraine Member - Silty Clay	Clay, Silty
17	173m NW	NABS-SZ	Naburn Sand Member - Silty Sand	Sand, Silty
18	186m W	ESKRM-SV	Escrick Moraine Member - Gravelly Sand	Sand, Gravelly
19	270m E	SUTN-S	Sutton Sand Formation - Sand	Sand
20	315m N	ELV-CZ	Elvington Glaciolacustrine Formation - Silty Clay	Clay, Silty
21	327m NW	ELV-CZ	Elvington Glaciolacustrine Formation - Silty Clay	Clay, Silty
22	403m NE	SKIS-SZV	Skipwith Sand Member - Silty Gravelly Sand	Sand, Silty, Gravelly
23	440m W	ESKRM-SV	Escrick Moraine Member - Gravelly Sand	Sand, Gravelly
24	449m NW	NABS-SZ	Naburn Sand Member - Silty Sand	Sand, Silty

This data is sourced from the British Geological Survey.

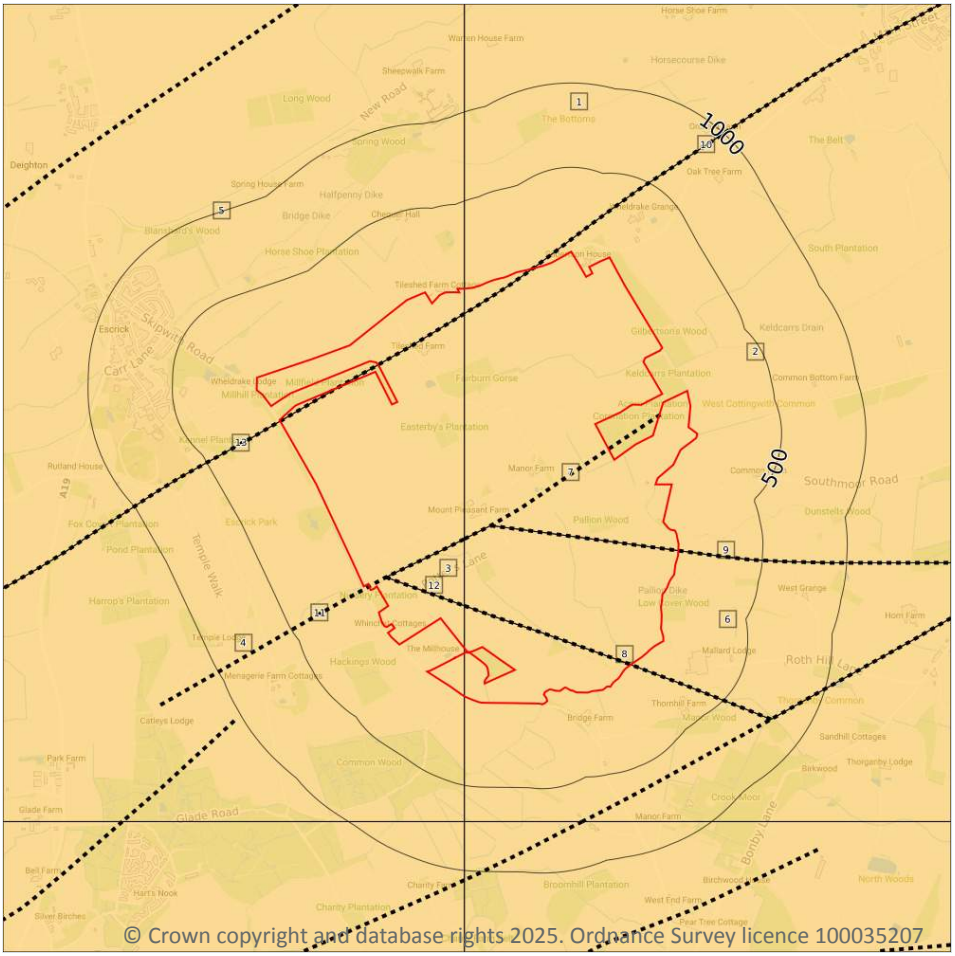
1.4 Landslip (10k)

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



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

1.5 Bedrock geology (10k)

Records within 500m **6**

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 15 >**

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]
2	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

ID	Location	LEX Code	Description	Rock age
3	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
4	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
5	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
6	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**

This data is sourced from the British Geological Survey.

1.6 Bedrock faults and other linear features (10k)

Records within 500m	**7**

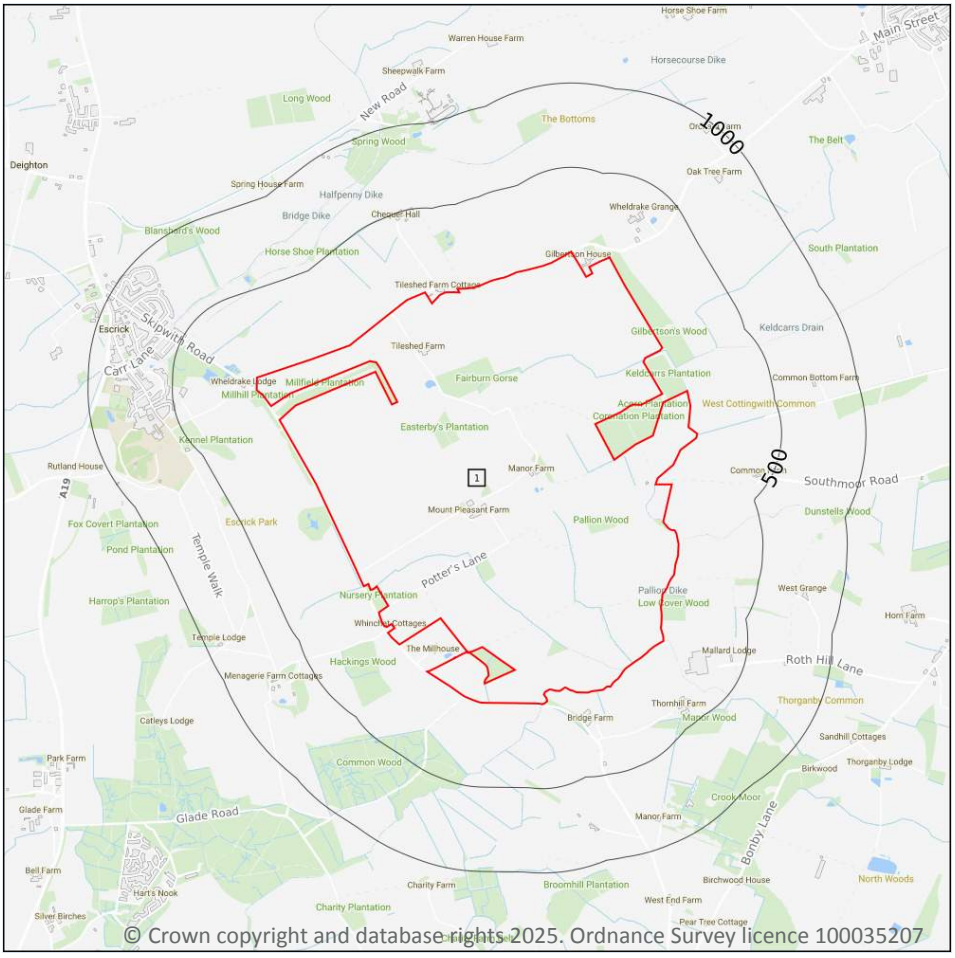
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 15 >**

ID	Location	Category	Description
7	**On site**	**FAULT**	**Normal fault, inferred**
8	**On site**	**FAULT**	**Normal fault, inferred**
9	**On site**	**FAULT**	**Normal fault, inferred**
10	**On site**	**FAULT**	**Normal fault, inferred**
11	**On site**	**FAULT**	**Normal fault, inferred**
12	**On site**	**FAULT**	**Normal fault, inferred**
13	**On site**	**FAULT**	**Normal fault, inferred**

This data is sourced from the British Geological Survey.

2 Geology 1:50,000 scale - Availability



2.1 50k Availability

Records within 500m	1

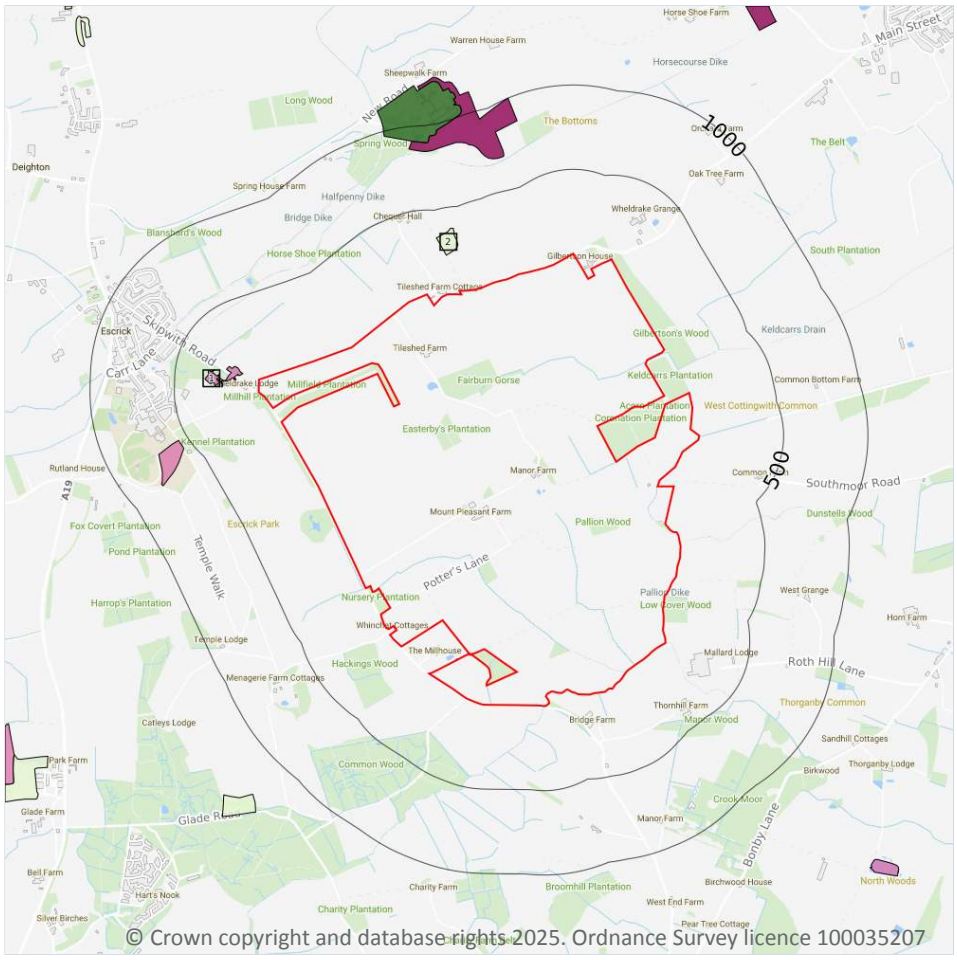
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 17 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**EW071_selby_v4**

This data is sourced from the British Geological Survey.

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



2.2 Artificial and made ground (50k)

Records within 500m	2

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 18 >**

ID	Location	LEX Code	Description	Rock description
1	103m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	225m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

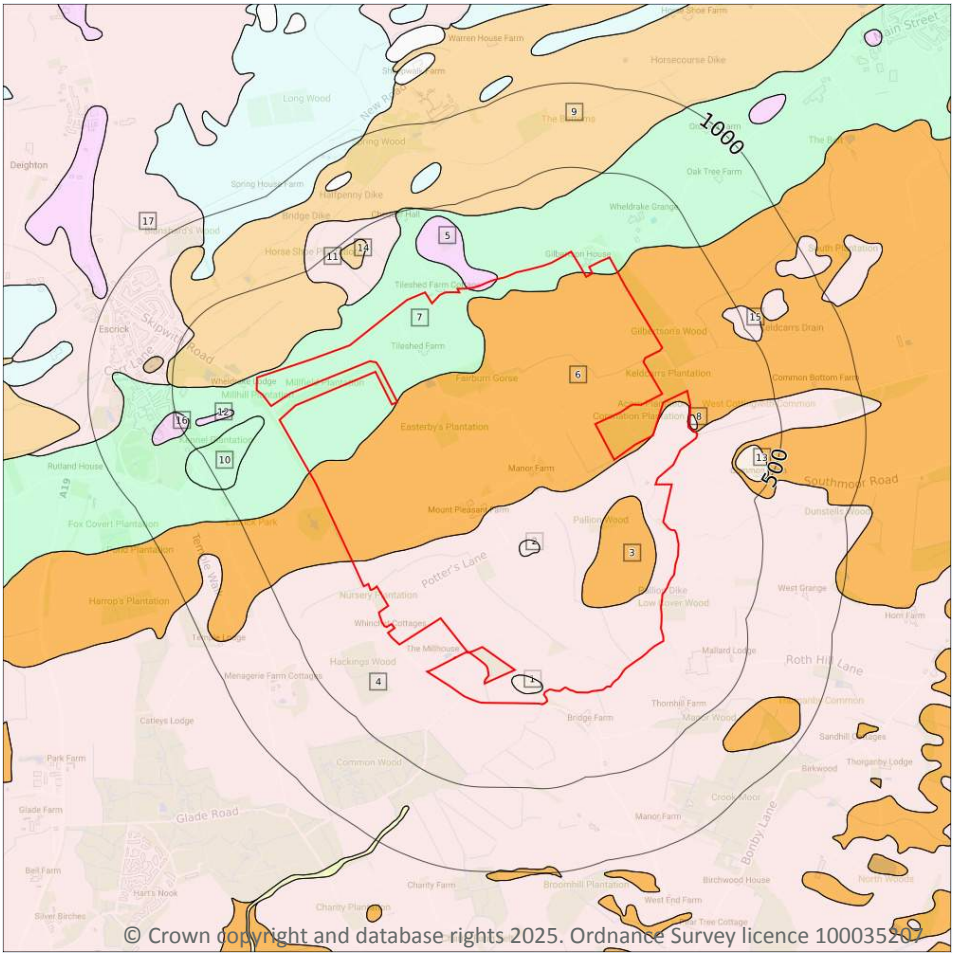
2.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m	17

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 20 >**

ID	Location	LEX Code	Description	Rock description
1	On site	SUTN-S	SUTTON SAND FORMATION	SAND
2	On site	SUTN-S	SUTTON SAND FORMATION	SAND
3	On site	THOR-CZ	THORGANBY CLAY MEMBER	CLAY, SILTY
4	On site	SKIS-SCV	SKIPWITH SAND MEMBER	SAND, CLAYEY, GRAVELLY

ID	Location	LEX Code	Description	Rock description
5	**On site**	**ESKRM-SV**	**ESCRICK MORAINE MEMBER**	**SAND, GRAVELLY**
6	**On site**	**THOR-CZ**	**THORGANBY CLAY MEMBER**	**CLAY, SILTY**
7	**On site**	**ESKRM-CSV**	**ESCRICK MORAINE MEMBER**	**CLAY, SANDY, GRAVELLY**
8	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
9	18m NW	ELV-CZ	ELVINGTON GLACIOLACUSTRINE FORMATION	CLAY, SILTY
10	86m W	ESKRM-CZ	ESCRICK MORAINE MEMBER	CLAY, SILTY
11	173m NW	NABS-SZ	NABURN SAND MEMBER	SAND, SILTY
12	187m W	ESKRM-SV	ESCRICK MORAINE MEMBER	SAND, GRAVELLY
13	270m E	SUTN-S	SUTTON SAND FORMATION	SAND
14	327m NW	ELV-CZ	ELVINGTON GLACIOLACUSTRINE FORMATION	CLAY, SILTY
15	404m NE	SKIS-SZV	SKIPWITH SAND MEMBER	SAND, SILTY, GRAVELLY
16	440m W	ESKRM-SV	ESCRICK MORAINE MEMBER	SAND, GRAVELLY
17	449m NW	NABS-SZV	NABURN SAND MEMBER	SAND, SILTY, GRAVELLY

This data is sourced from the British Geological Survey.

2.5 Superficial permeability (50k)

Records within 50m **13**

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**	**Very High**	**High**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Mixed**	**Moderate**	**Low**
On site	**Mixed**	**Moderate**	**Low**

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**Low**
On site	**Intergranular**	**High**	**Low**
On site	**Intergranular**	**High**	**High**
18m NW	Mixed	Low	Very Low
26m N	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

2.6 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.

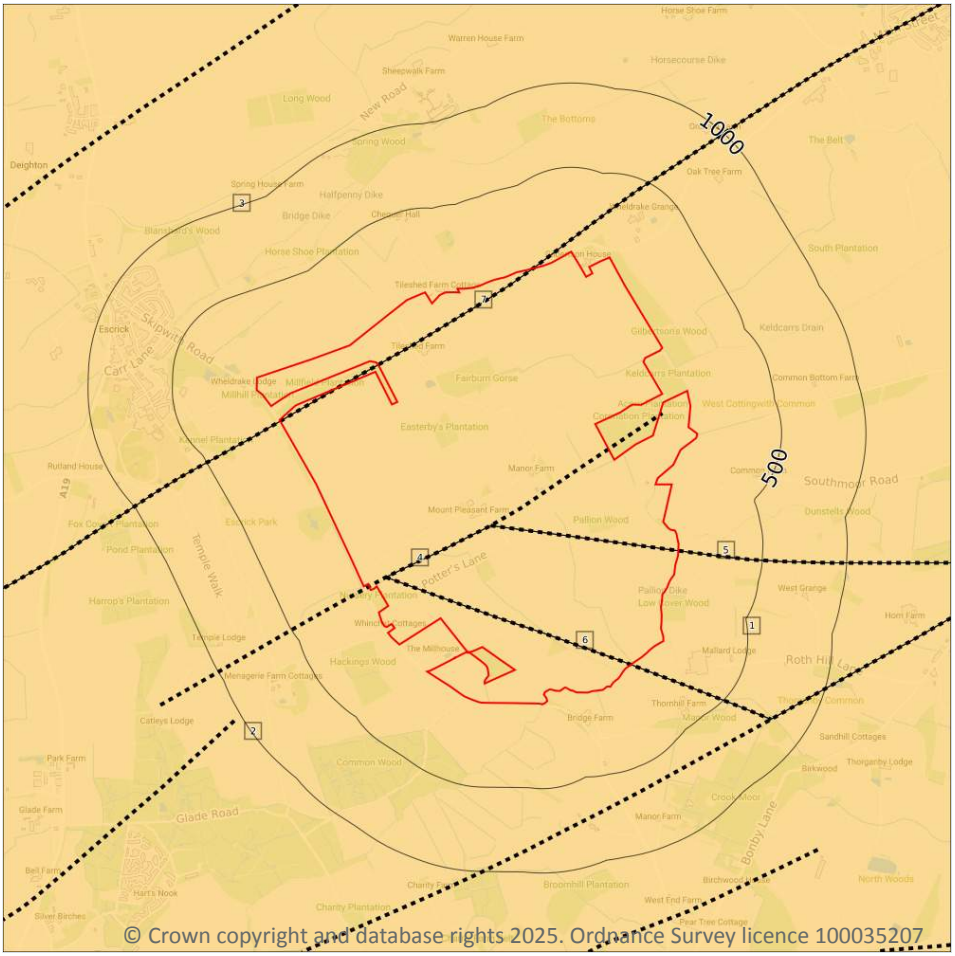
2.7 Landslip permeability (50k)

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



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

2.8 Bedrock geology (50k)

Records within 500m	3

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 23 >**

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
2	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
3	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.

2.9 Bedrock permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**High**
On site	**Mixed**	**High**	**High**

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m	4

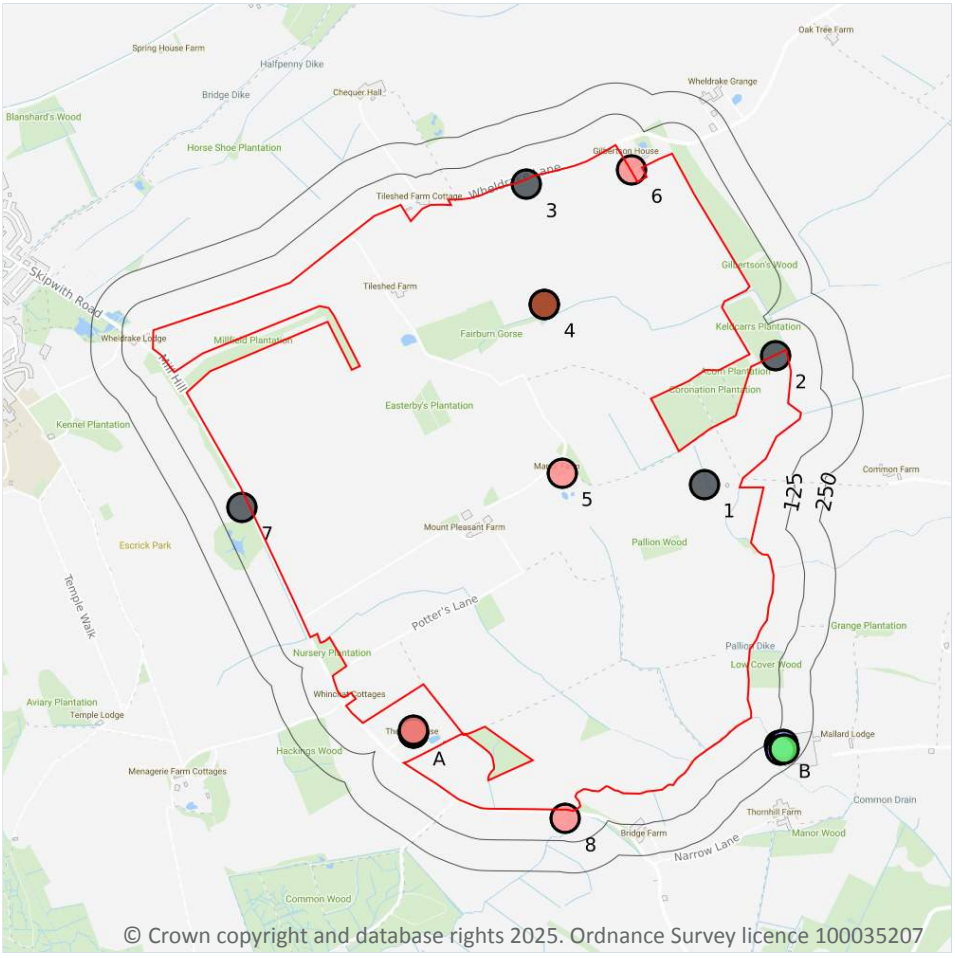
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 23 >**

ID	Location	Category	Description
4	**On site**	**FAULT**	**Fault, inferred**
5	**On site**	**FAULT**	**Fault, inferred**
6	**On site**	**FAULT**	**Fault, inferred**
7	**On site**	**FAULT**	**Fault, inferred**

This data is sourced from the British Geological Survey.

3 Boreholes



3.1 BGS Boreholes

Records within 250m	14

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.

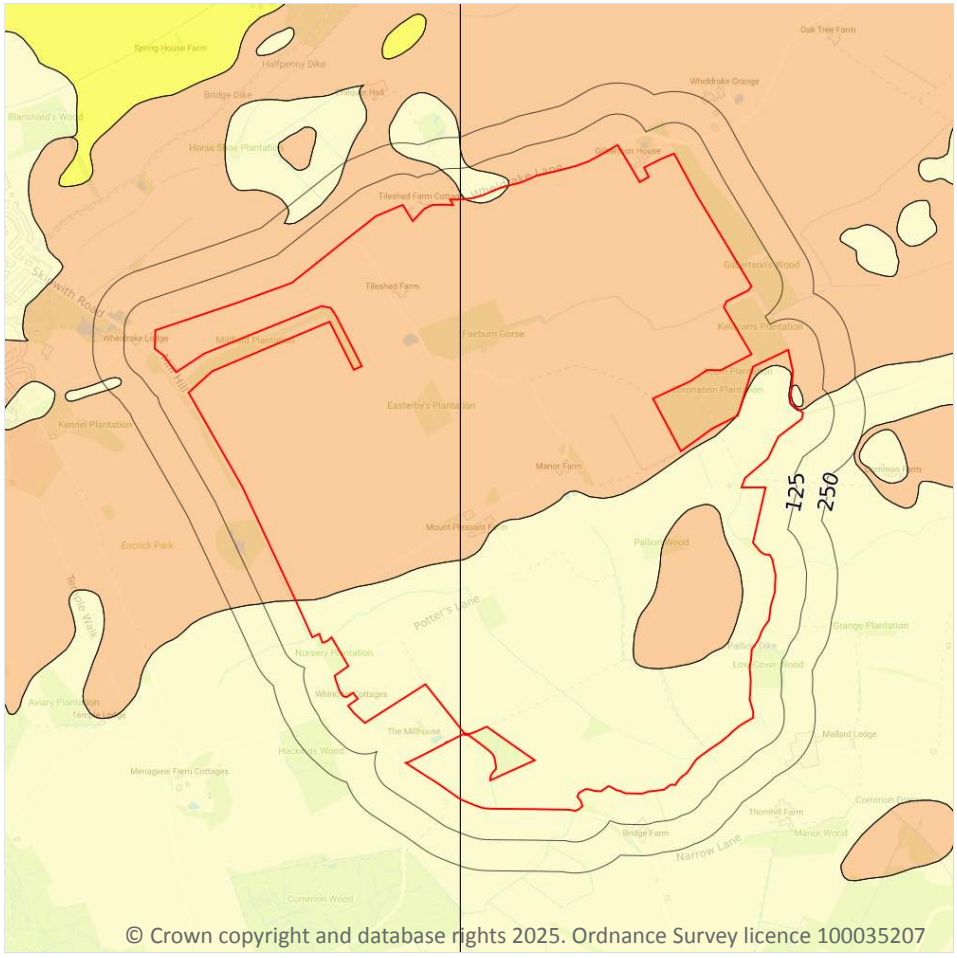
Features are displayed on the Boreholes map on **page 25 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	465990 442010	PROPOSED ELVINGTON TO RICCALL PIPELINE 10	-	Y	N/A
2	On site	466280 442530	PROPOSED ELVINGTON TO RICCALL PIPELINE 9	-	Y	N/A
3	On site	465275 443222	ESCRICK 1	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**465348 442736**	**ESCRICK OLD WELL**	**-1.0**	**N**	**122956** ↗
5	**On site**	**465418 442058**	**MANOR FARM, ESCRICK**	**45.72**	**N**	**122948** ↗
6	5m N	465699 443280	GILBERSONS FARM ESCRICK WHELDRAKE	42.67	N	122947 ↗
7	29m W	464129 441917	ESCRICK PARK	-	Y	N/A
8	34m S	465432 440666	SKIPWITH BRIDGE	1036.0	N	122962 ↗
A	93m S	464820 441010	WINCHAT FARM ESCRICK	-1.0	N	122974 ↗
A	102m S	464820 441020	WINCHAT FARM ESCRICK	38.4	N	122973 ↗
B	158m SE	466293 440960	THORGANBY NEAR YORK 1	8.0	N	18914650 ↗
B	170m SE	466310 440962	THORGANBY NEAR YORK 4	7.5	N	18914653 ↗
B	174m SE	466296 440941	THORGANBY NEAR YORK 2	8.1	N	18914651 ↗
B	184m SE	466313 440944	THORGANBY NEAR YORK 3	18.7	N	18914652 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



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Site Outline

Search buffers in metres (m)

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

4.1 Shrink swell clays

Records within 50m	4

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).

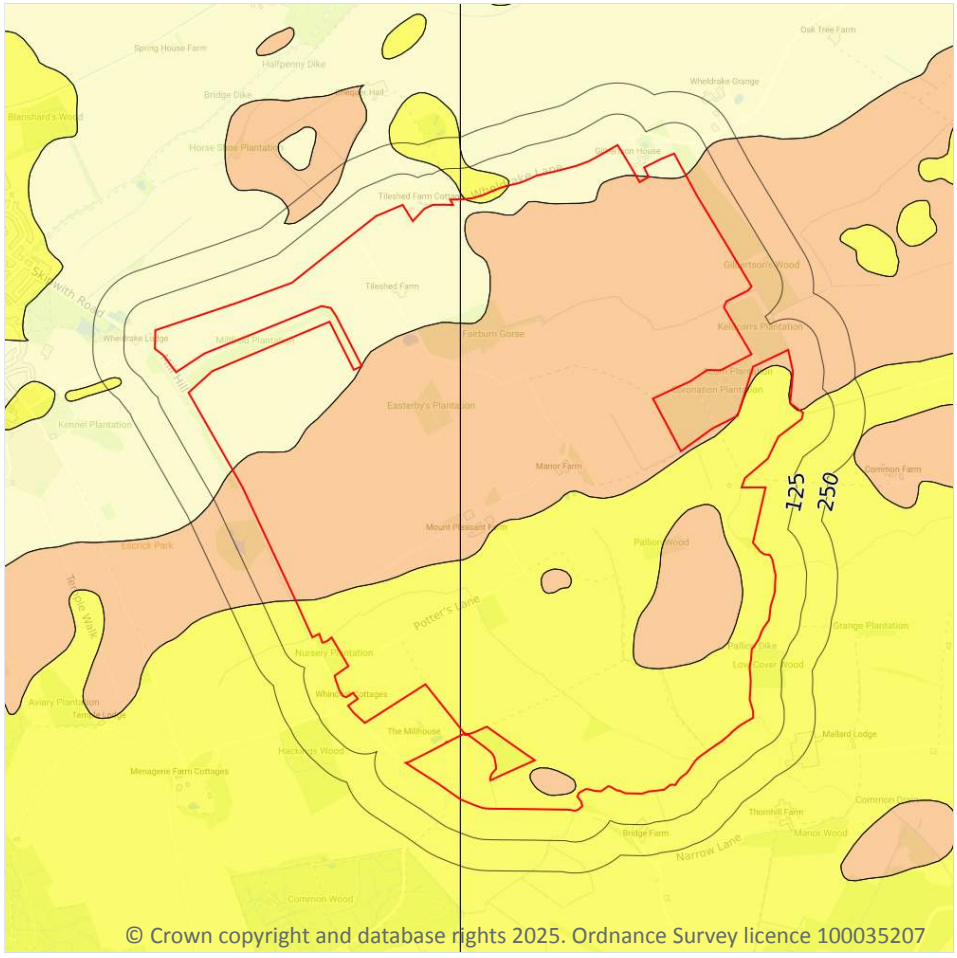
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 27 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**
On site	**Negligible**	**Ground conditions predominantly non-plastic.**

Location	Hazard rating	Details
26m N	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

4.2 Running sands

Records within 50m	4

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.

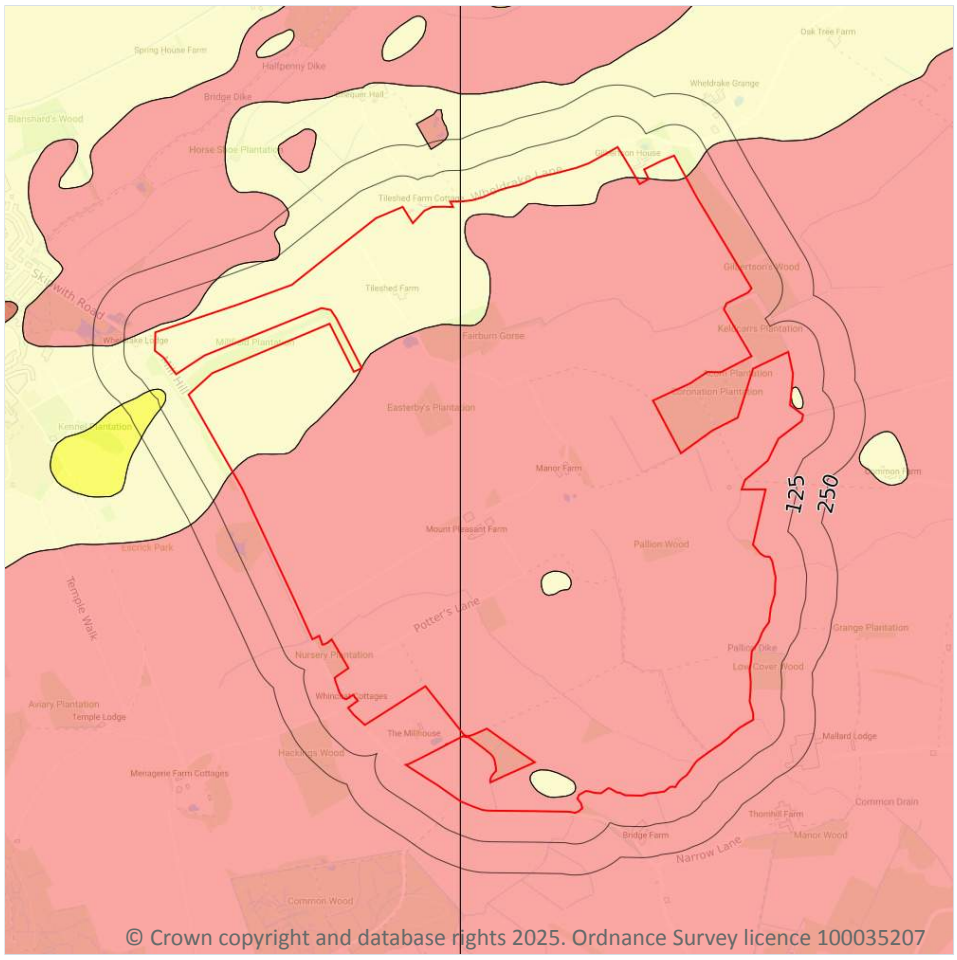
Features are displayed on the Natural ground subsidence - Running sands map on **page 29 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

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.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
26m N	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

4.3 Compressible deposits

Records within 50m	4

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

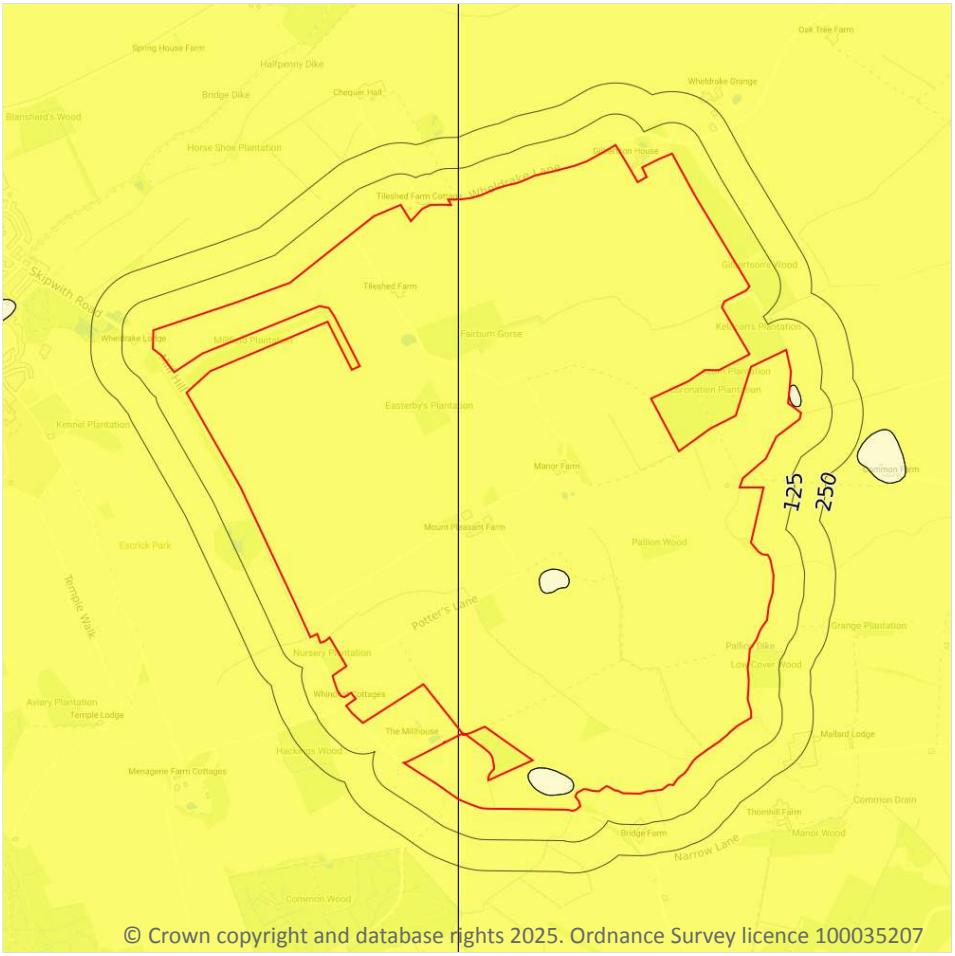
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 31 >**

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

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
18m NW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

4.4 Collapsible deposits

Records within 50m	3

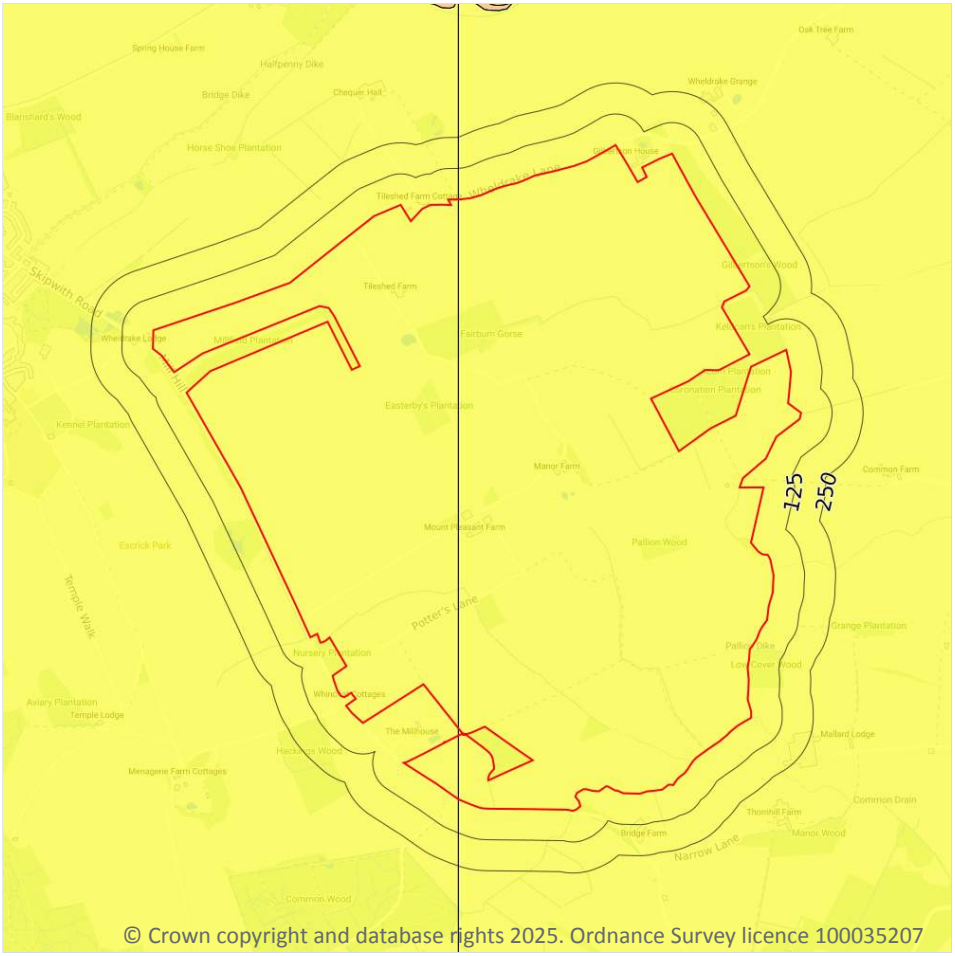
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 33 >**

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

4.5 Landslides

Records within 50m	1

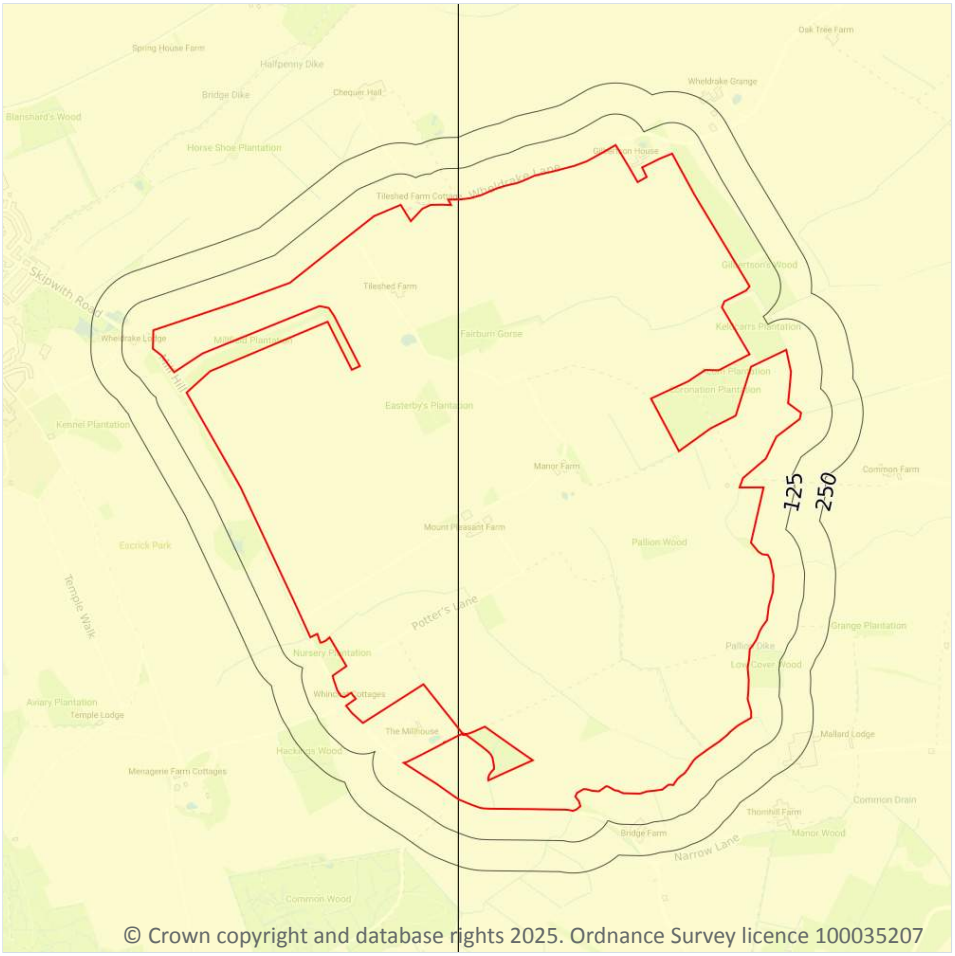
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 35 >**

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



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Site Outline

Search buffers in metres (m)

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

4.6 Ground dissolution of soluble rocks

Records within 50m	1

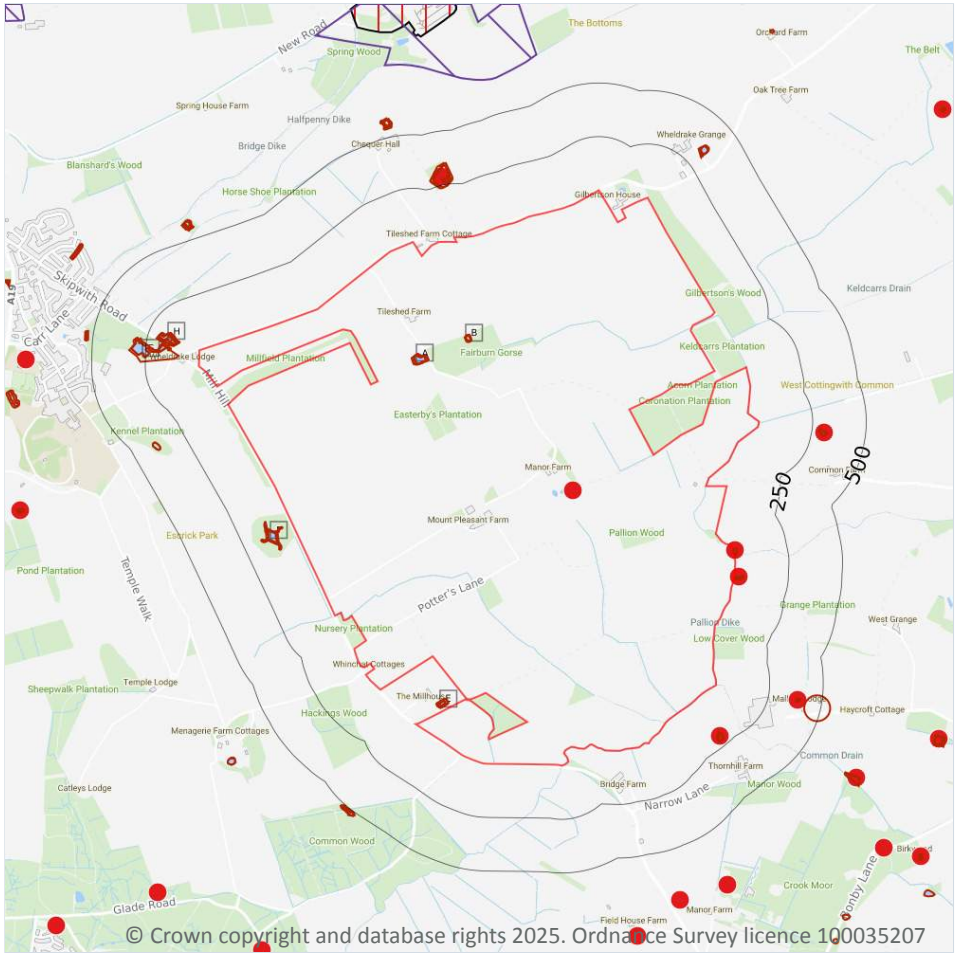
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 36 >**

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.

5 Mining and ground workings



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- Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

5.1 BritPits

Records within 500m	7

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.

Features are displayed on the Mining and ground workings map on **page 38 >**

ID	Location	Details	Description
1	**On site**	**Name: Manor Farm Gravel Pit** **Address: Escrick, SELBY, North Yorkshire** **Commodity: Sand & Gravel** **Status: Ceased**	**Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site** **Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority**
C	9m E	Name: Pallion Dike Clay Pit Address: Thorganby, YORK, North Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	17m SE	Name: Pallion Dike Clay Pit Address: Thorganby, YORK, North Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	203m SE	Name: Thornhill Cottage Sand Pit Address: Thorganby, YORK, North Yorkshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
J	291m N	Name: Gravel Pit Hill Gravel Pit Address: Escrick, YORK, North Yorkshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	306m E	Name: Common Farm Sand Pit Address: Thorganby, YORK, North Yorkshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
N	385m SE	Name: Rot Hole Sand Pit Address: Thorganby, YORK, North Yorkshire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

5.2 Surface ground workings

Records within 250m **38**

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

Features are displayed on the Mining and ground workings map on **page 38 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1979**	**1:10000**
A	**On site**	**Pond**	**1988**	**1:10000**
A	**On site**	**Pond**	**1950**	**1:10560**
A	**On site**	**Pond**	**1910**	**1:10560**
A	**On site**	**Pond**	**1958**	**1:10560**
B	**On site**	**Unspecified Pit**	**1910**	**1:10560**
B	**On site**	**Unspecified Pit**	**1910**	**1:10560**
B	**On site**	**Unspecified Pit**	**1950**	**1:10560**
B	**On site**	**Unspecified Pit**	**1950**	**1:10560**
C	1m E	Old Clay Pit	1910	1:10560
C	2m E	Old Clay Pit	1950	1:10560
D	2m SE	Old Clay Pit	1910	1:10560
C	2m E	Old Clay Pit	1950	1:10560
D	3m SE	Old Clay Pit	1950	1:10560
D	4m SE	Old Clay Pit	1950	1:10560
E	17m S	Pond	1958	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
E	18m S	Pond	1979	1:10000
E	18m S	Pond	1988	1:10000
E	23m S	Pond	1910	1:10560
E	25m S	Pond	1950	1:10560
F	50m W	Pond	1979	1:10000
F	50m W	Pond	1988	1:10000
F	84m W	Pond	1958	1:10560
F	89m W	Pond	1950	1:10560
G	97m W	Pond	1910	1:10560
H	100m W	Ponds	1979	1:10000
H	100m W	Ponds	1988	1:10000
H	102m W	Ponds	1958	1:10560
H	107m W	Ponds	1910	1:10560
H	107m W	Ponds	1950	1:10560
G	133m W	Pond	1979	1:10000
G	133m W	Pond	1988	1:10000
I	185m SE	Old Sand Pit	1910	1:10560
I	190m SE	Old Sand Pit	1950	1:10560
I	190m SE	Old Sand Pit	1950	1:10560
J	236m N	Old Gravel Pit	1950	1:10560
J	238m N	Old Gravel Pit	1910	1:10560
J	241m N	Ponds	1958	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

5.3 Underground workings

Records within 1000m	**1**

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

Features are displayed on the Mining and ground workings map on **page 38 >**

ID	Location	Land Use	Year of mapping	Mapping scale
7	949m N	Unspecified Mine	1988	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

5.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

5.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

5.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

5.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

5.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

5.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

5.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.12 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

5.13 Brine areas

Records on site	0

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

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

5.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

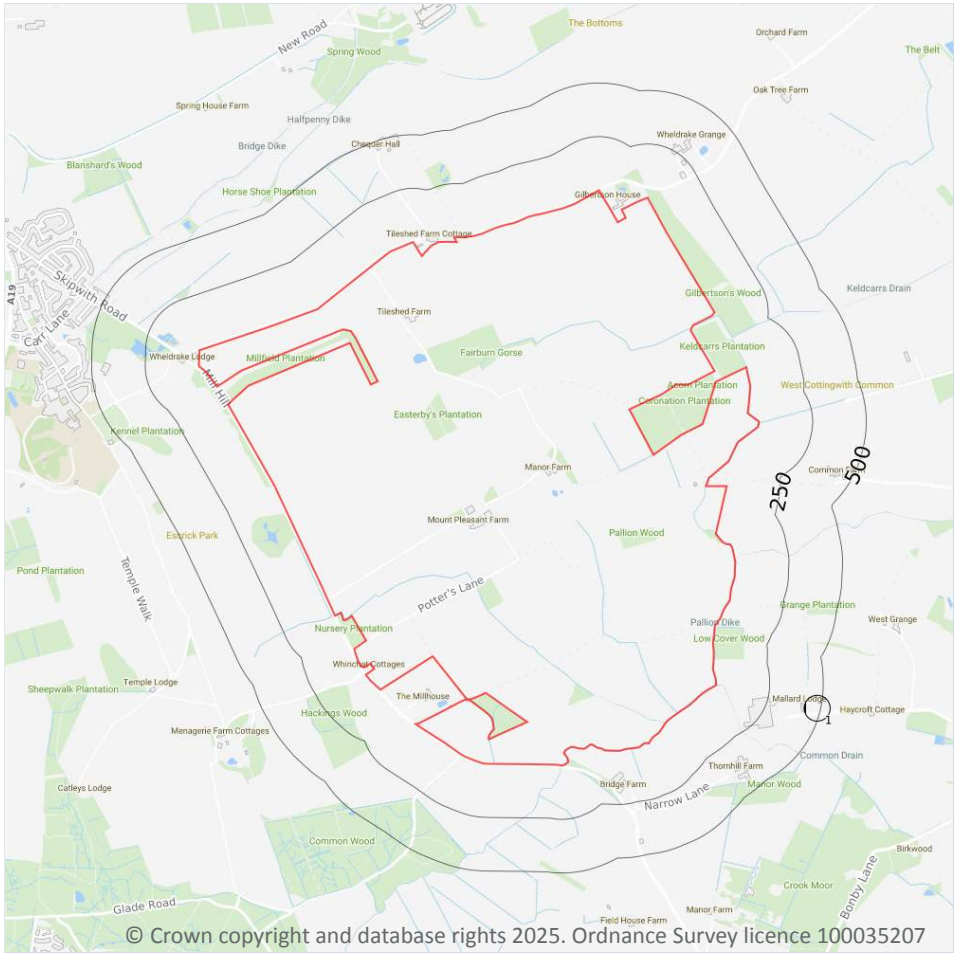
5.16 Clay mining

Records on site	0

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

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

6 Ground cavities and sinkholes



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

Mining cavities

Reported recent incidents

Historical incidents

6.1 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.

6.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

6.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

6.4 Historical incidents

Records within 500m	1

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

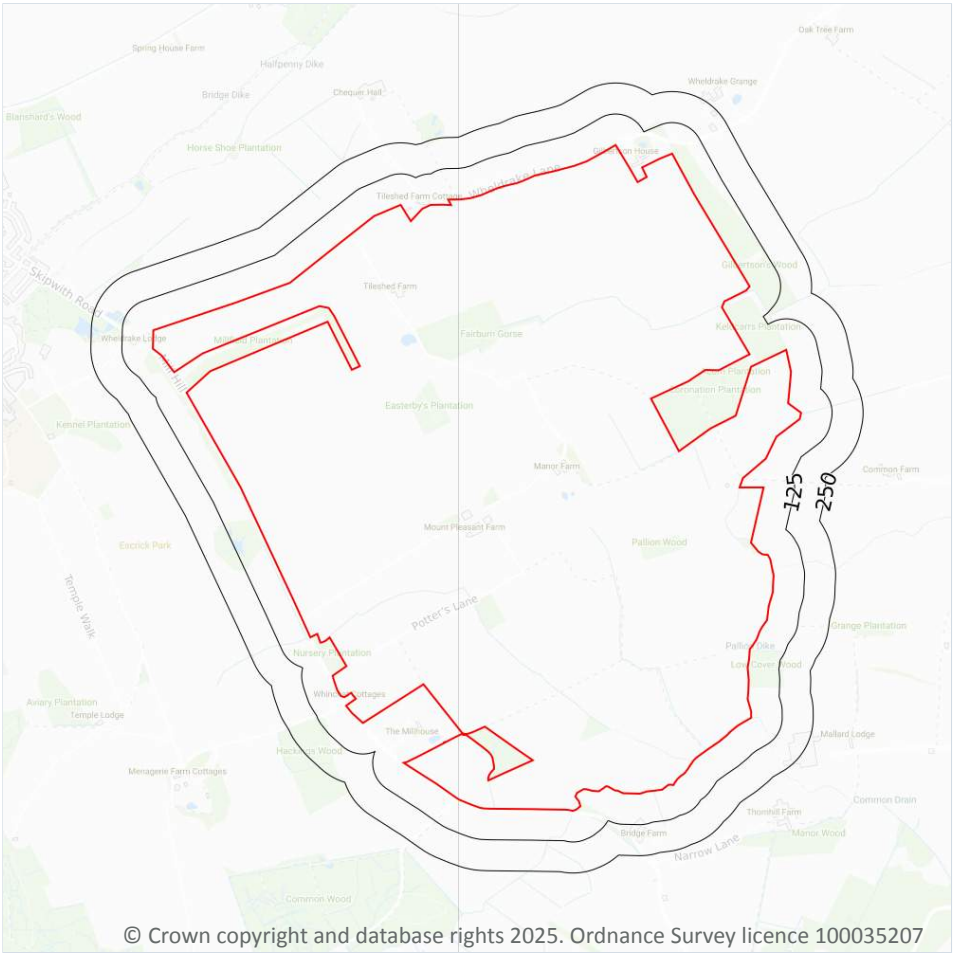
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

Features are displayed on the Ground cavities and sinkholes map on **page 45 >**

ID	Location	Type	Date of mapping
1	424m SE	Unspecified Hole	1950

This data is sourced from Groundsure.

7 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%

7.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 47 >**

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

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

8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m	87

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
1m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
1m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
3m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
3m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
27m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg

This data is sourced from the British Geological Survey.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

8.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

9 Railway infrastructure and projects

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

9.4 Historical railway and tunnel features

Records within 250m	0

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.

This data is sourced from Ordnance Survey/Groundsure.

9.5 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.

9.6 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.

9.7 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.

9.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

9.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

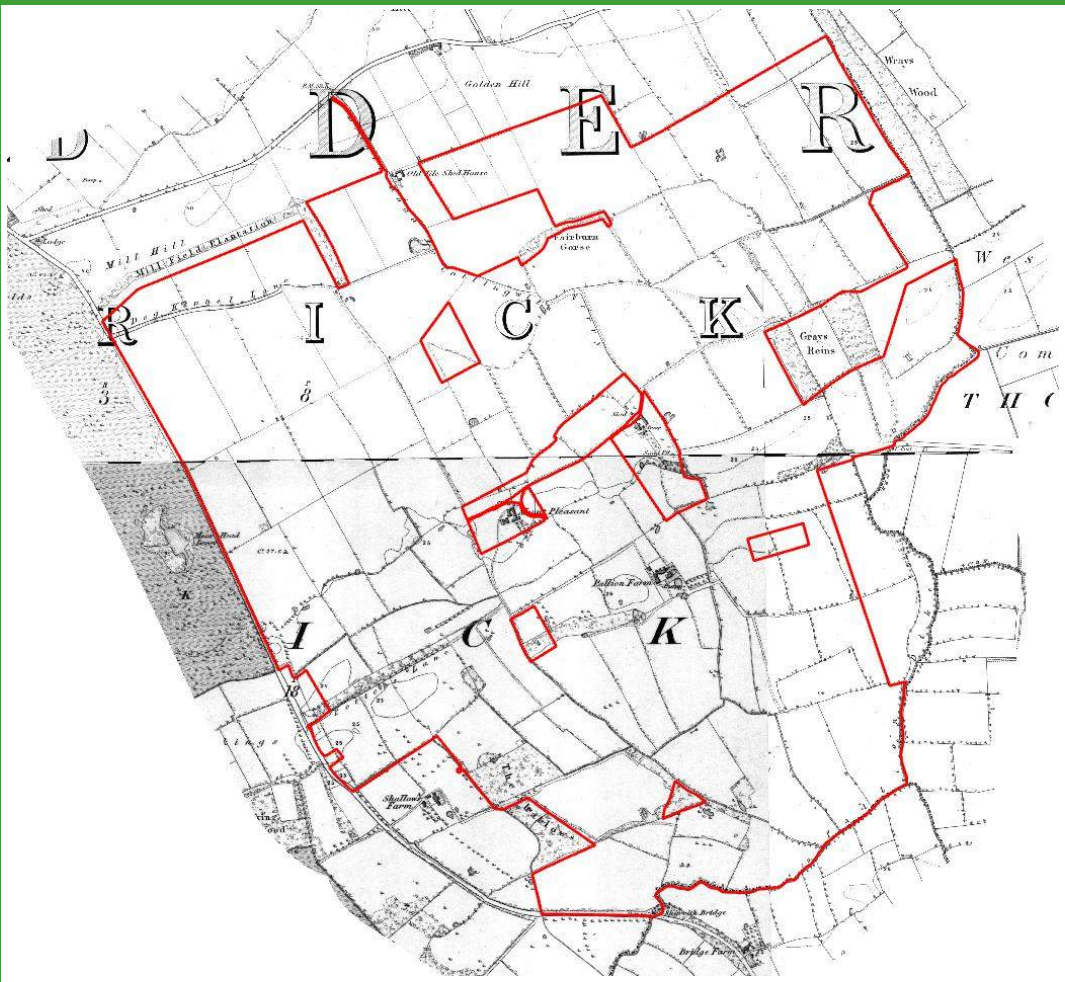
Data providers

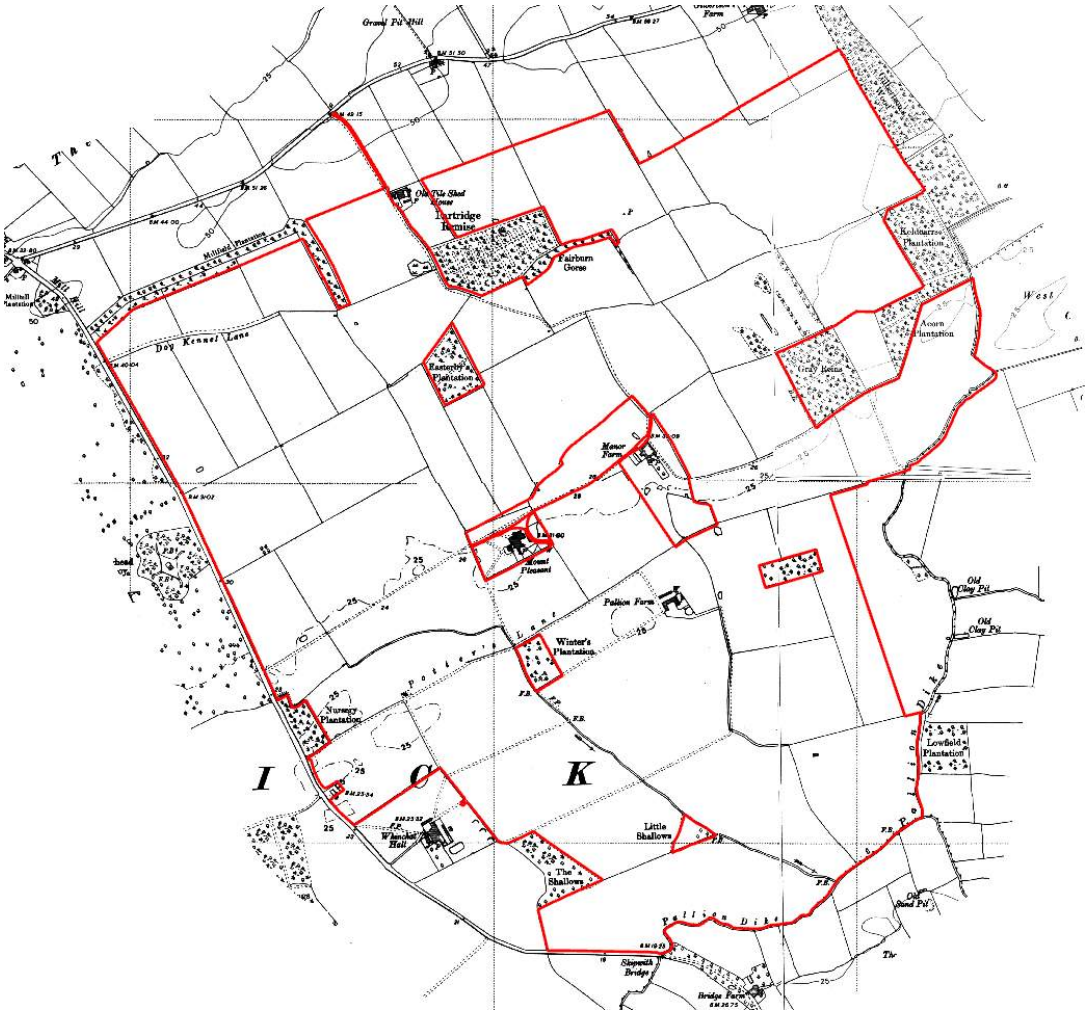
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

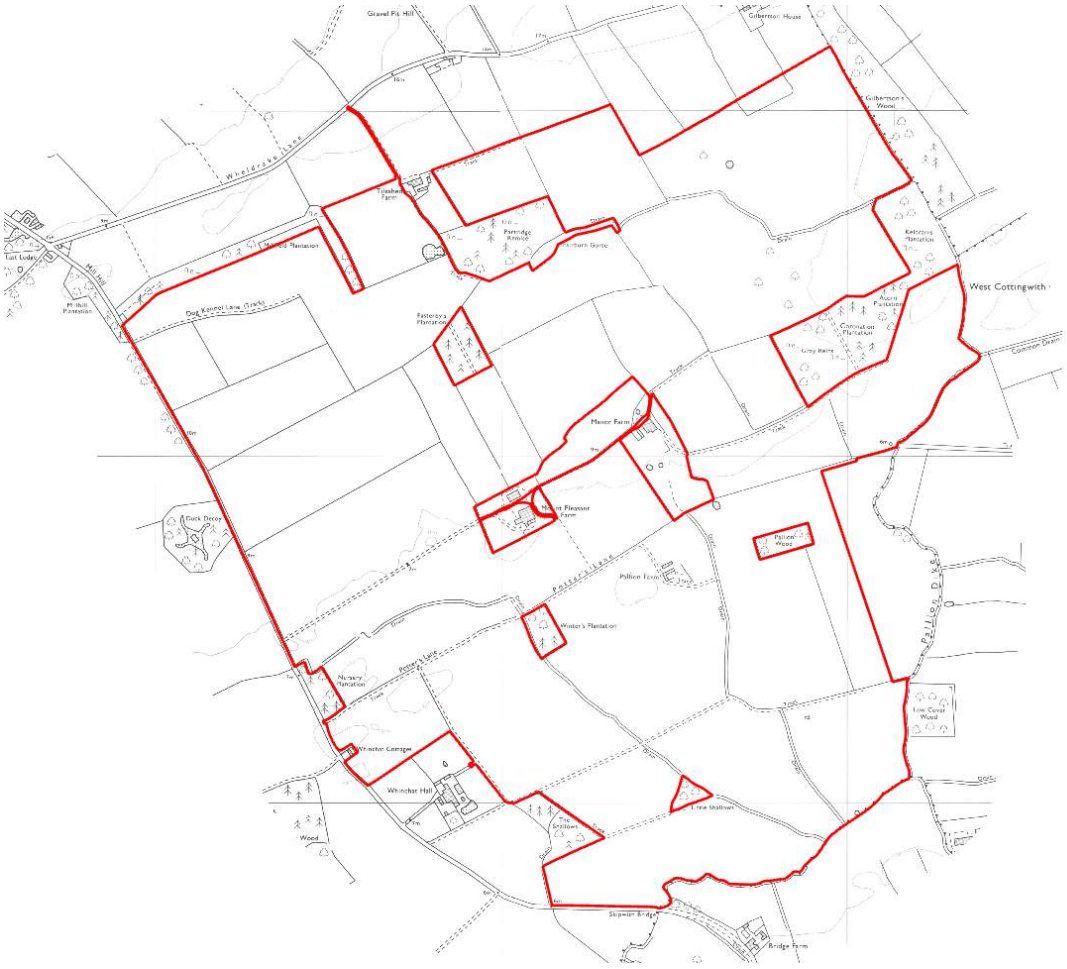
Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

A.2. Historical Maps

Map date Scale	Map extract
1851 – 1854 1:10,560 © Groundsure Ltd. © ESRI © Open Street Map	

Map date Scale	Map extract
1950 1:10,560 © Groundsure Ltd © ESRI © Open Street Map	

Map date Scale	Map extract
1977 – 1988 1:10,000 © Groundsure Ltd © ESRI © Open Street Map	
2003 © Google Earth	

Map date Scale	Map extract
2012 © Google Earth	
2024 © Google Earth	

A.3. Consultants Coal Mining Report

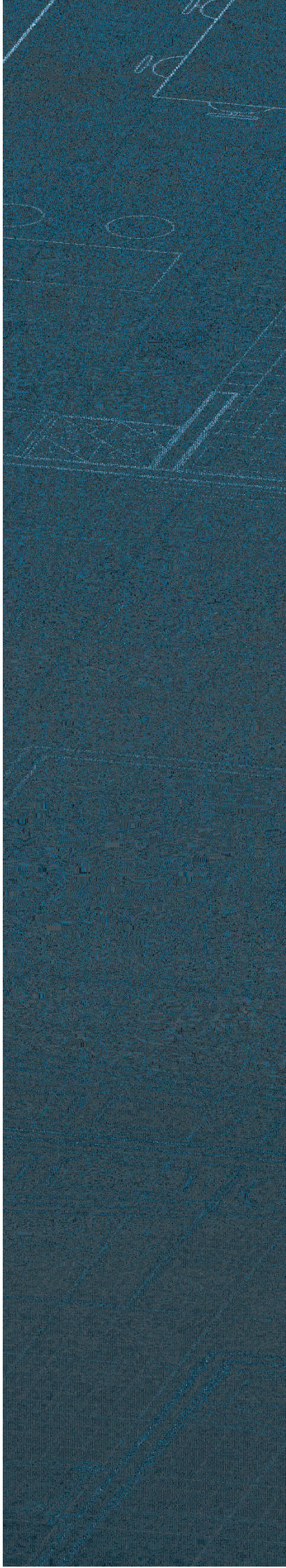
The Coal Authority

Consultants

Coal Mining Report

302939-00 Lvs - Site 1
North Yorkshire

Date of enquiry:	**9 January 2025**
Date enquiry received:	**9 January 2025**
Issue date:	**9 January 2025**
Our reference:	**51003472131001**
Your reference:	**GS-UMJ-XNW-N7B-C3W**



Consultants

Coal Mining Report

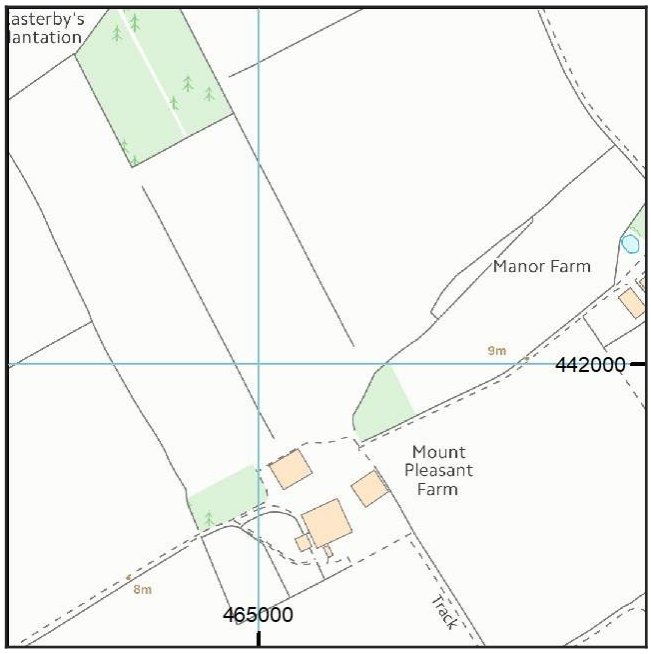
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

302939-00 Lvs - Site 1
North Yorkshire



Approximate position of property

Map data

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
STILLINGFLEET	BARNSLEY	Coal	H256	873	South-West	4.7	North-East	250	1994
NORTH SELBY	BARNSLEY	Coal	H804	902	South-West	2.7	North-East	230	1994
NORTH SELBY	BARNSLEY	Coal	H803	906	Beneath Property	2.7	North-East	230	1993
NORTH SELBY	BARNSLEY	Coal	H802	922	Beneath Property	3.5	North-East	230	1992
NORTH SELBY	BARNSLEY	Coal	H801	944	Beneath Property	3.8	North-East	220	1991
STILLINGFLEET	BARNSLEY	Coal	H308	964	Beneath Property			210	2003
STILLINGFLEET	BARNSLEY	Coal	H900	1008	Beneath Property			200	1999
NORTH SELBY	BARNSLEY	Coal	H902	1021	Beneath Property	3.3	North-East	190	1992
NORTH SELBY	BARNSLEY	Coal	H903	1043	North-East	3.3	North-East	210	1993

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

17895	17897	17894

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

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Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

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Coal mining subsidence

A damage notice or claim for alleged subsidence damage was made in December 2002 for WHINCHAT WATERCOURSE CHAINAGE 0 TO 1898 M. We understand that the claim was settled to the satisfaction of the claimant.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in October 2001 for FIELDS 204 & 301 LAND AT STILLINGFLEET, STILLINGFLEET, YORK, NORTH YORKSHIRE. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in May 1999 for OS 5600 & 7300 WHELDRAKE LANE, WHELDRAKE, YORK, NORTH YORKSHIRE. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in July 1998 for FIELDS OS 0061 6900 1998 CROP LOSS, TILESHED FARM, YORK, NORTH YORKSHIRE. The claim was settled to the satisfaction of the claimant and totalled £1,355.00.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in December 1996 for TILESHED FARMHOUSE WHELDRAKE LANE, ESCRICK, YORK, NORTH YORKSHIRE, YO4 6EL. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in March 1995 for FIELD OS 6765 9880 TILE SHED FARM, ESCRICK, YORK, NORTH YORKSHIRE. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in March 1995 for FIELD OS 6900 0061 8656 TILE SHED FARM, ESCRICK, YORK, NORTH YORKSHIRE. The claim was settled by repairs to the value of £9,322.48.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in March 1995 for FIELDS OS 6900 0061 8656 TILE SHED FARM, ESCRICK, YORK, NORTH YORKSHIRE. We understand that the claim was settled to the satisfaction of the claimant.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in February 1995 for FIELD OS 0041 TILE SHED FARM WHELDRAKE LANE, ESCRICK, YORK, NORTH YORKSHIRE. However, the claim was rejected.

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There is no current Stop Notice delaying the start of remedial works or repairs to the property.

A damage notice or claim for alleged subsidence damage was made in January 1995 for TILESHED COTTAGE WHELDRAKE LANE, ESCRICK, YORK, NORTH YORKSHIRE, YO19 6EL. The claim was settled by repairs to the value of £391.70.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

There are a further 23 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
Notices have been given under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1989 and 1994.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is in an area where a relevant notice (or notices) dated 1991 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1989 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1985 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1994 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1995 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1989 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1985 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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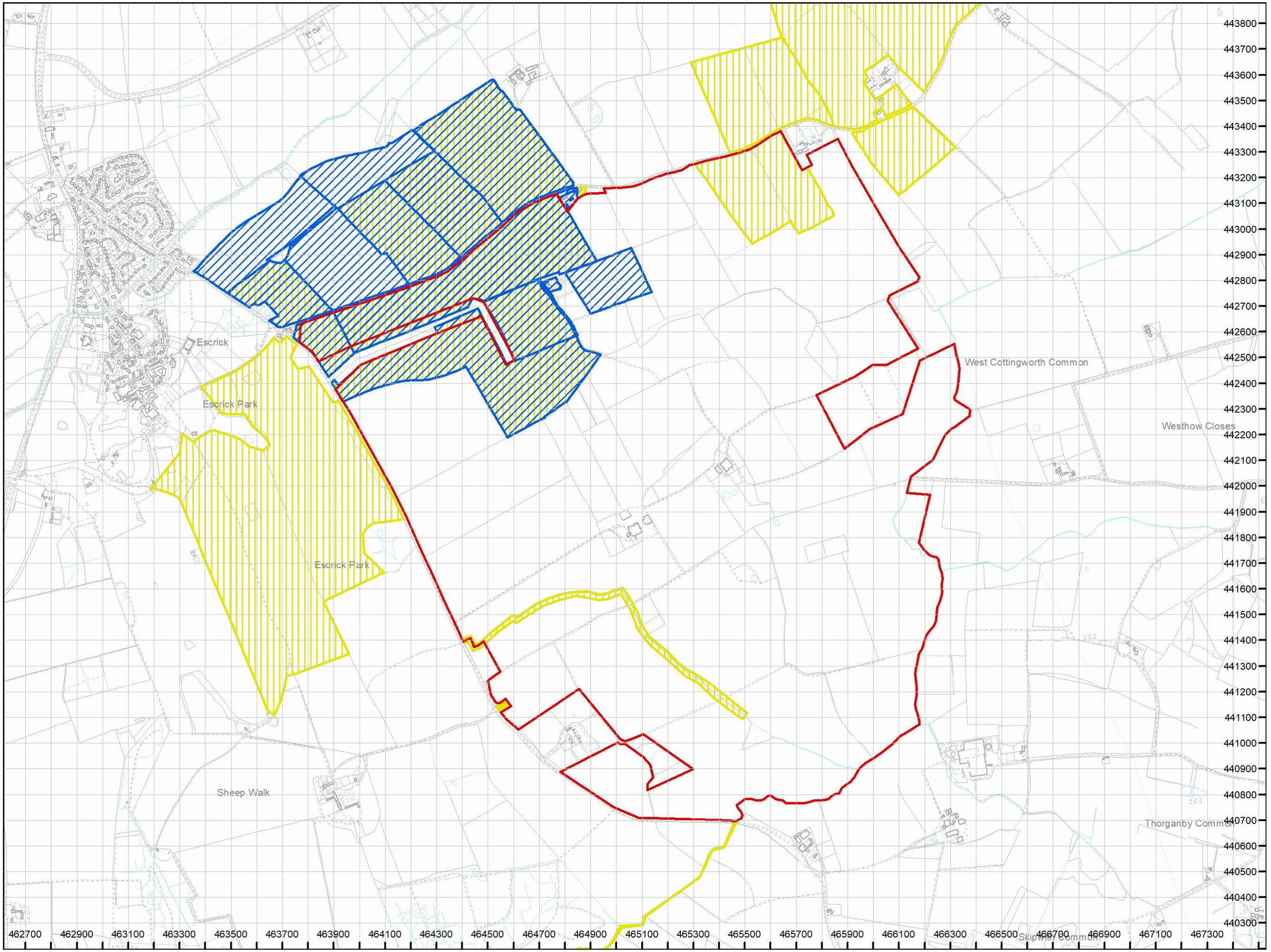
Map data

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

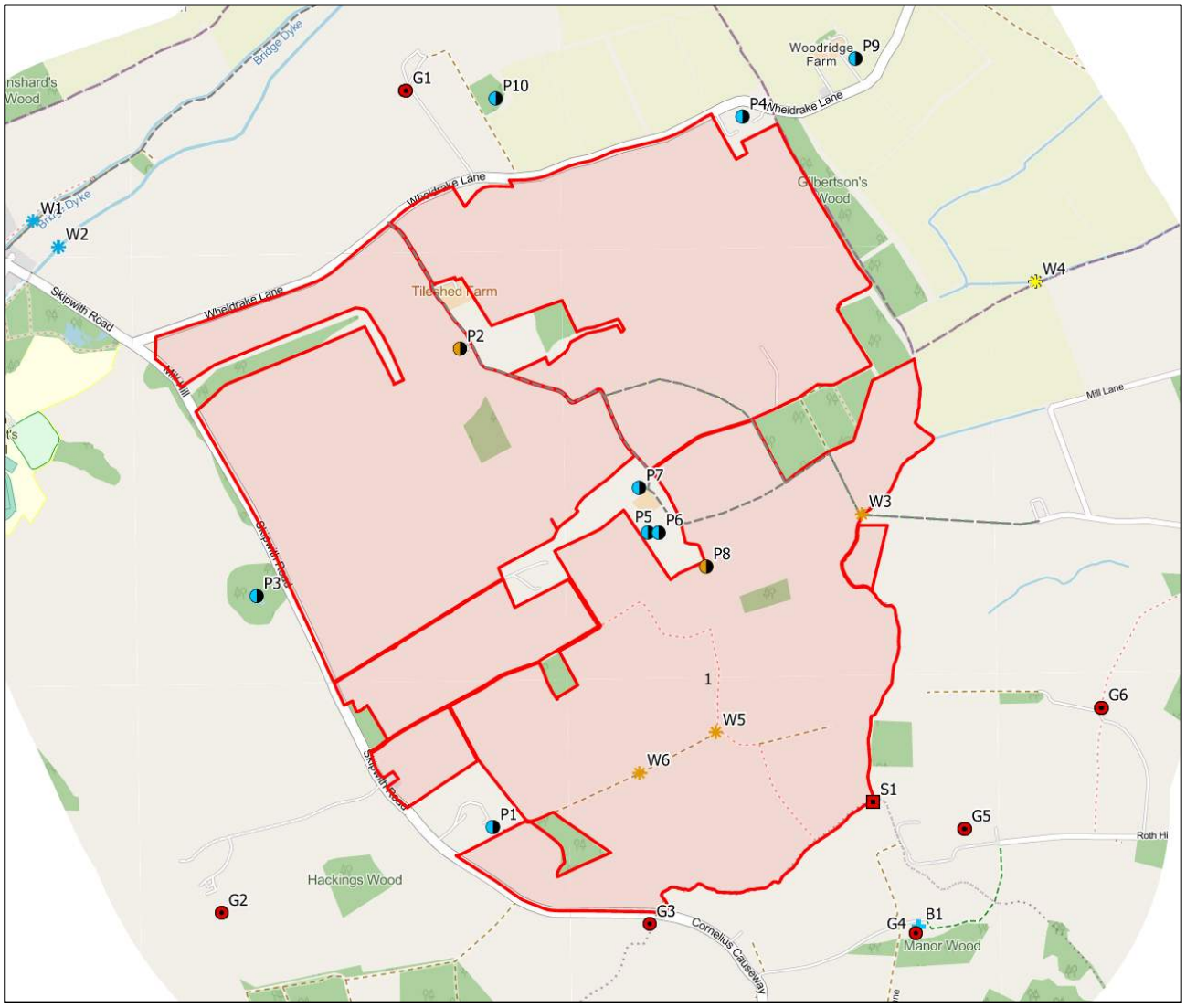
- Approximate position of the enquiry boundary shown
- Coal claim
- Licensee claim



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

A.4. Site Walkover Photos

Photo location IDs



Location ID	Photo
P8	
G3	

Location ID	Photo
P2	
W5	

Annex B Solar Development Site 2 Site Information

B.1. Groundsure Enviro and Geo Insight Reports

Groundsure LOCATION INTELLIGENCE

Enviro Insight

302939-00 LVS - Site 2

Order Details

Date: 08/01/2025

Your ref: 302939-00 LVS Site 2

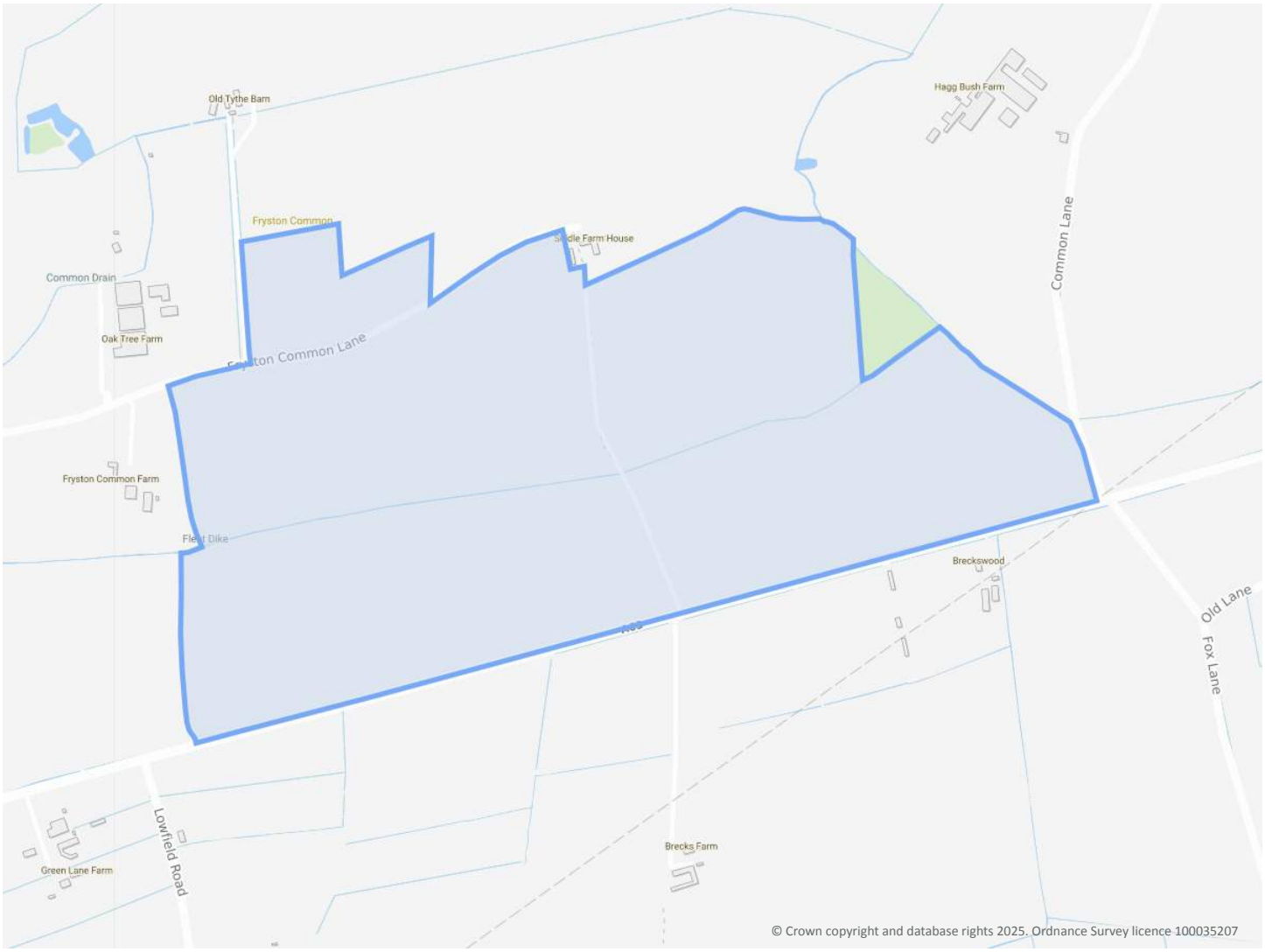
Our Ref: GS-MU3-MEX-YR1-KWO

Site Details

Location: 452726 430296

Area: 83.35 ha

Authority: The North Yorkshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 6 >

Insight User Guide ↗

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

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	0	0	1	0	-
12 >	1.2 >	Historical tanks >	0	0	0	1	-
12	1.3	Historical energy features	0	0	0	0	-
12	1.4	Historical petrol stations	0	0	0	0	-
13	1.5	Historical garages	0	0	0	0	-
13	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
14 >	2.1 >	Historical industrial land uses >	0	0	1	0	-
15 >	2.2 >	Historical tanks >	0	0	0	1	-
15	2.3	Historical energy features	0	0	0	0	-
15	2.4	Historical petrol stations	0	0	0	0	-
15	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
16	3.1	Active or recent landfill	0	0	0	0	-
16	3.2	Historical landfill (BGS records)	0	0	0	0	-
17	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
17	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
17	3.5	Historical waste sites	0	0	0	0	-
17	3.6	Licensed waste sites	0	0	0	0	-
17 >	3.7 >	Waste exemptions >	7	0	16	49	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	4.1 >	Recent industrial land uses >	0	0	4	-	-
25	4.2	Current or recent petrol stations	0	0	0	0	-
25	4.3	Electricity cables	0	0	0	0	-
25 >	4.4 >	Gas pipelines >	0	0	0	1	-
25	4.5	Sites determined as Contaminated Land	0	0	0	0	-

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

Page	Section	**Geology (basic) >**					
30 >	**5.1 >**	**Superficial geology (625k) >**	Identified (within 500m)				
30 >	**5.2 >**	**Bedrock geology (625k) >**	Identified (within 500m)				
Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
31 >	**6.1 >**	**Superficial aquifer >**	Identified (within 500m)				
33 >	**6.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
35 >	**6.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
37 >	**6.4 >**	**Groundwater vulnerability- soluble rock risk >**	Identified (within 0m)				
38	6.5	Groundwater vulnerability- local information	None (within 0m)				
39 >	**6.6 >**	**Groundwater abstractions >**	0	3	2	8	39
52 >	**6.7 >**	**Surface water abstractions >**	5	0	0	0	6
55	6.8	Potable abstractions	0	0	0	0	0
55 >	**6.9 >**	**Source Protection Zones >**	0	1	0	1	-

55	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
56 >	7.1 >	Water Network (OS MasterMap) >	18	30	49	-	-
64 >	7.2 >	Surface water features >	1	14	22	-	-
64 >	7.3 >	WFD Surface water body catchments >	1	-	-	-	-
65 >	7.4 >	WFD Surface water bodies >	0	0	0	-	-
65 >	7.5 >	WFD Groundwater bodies >	2	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
67 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
68 >	8.2 >	Historical Flood Events >	10	1	1	-	-
69	8.3	Flood Defences	0	0	0	-	-
69	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
69	8.5	Flood Storage Areas	0	0	0	-	-
70 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
71 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
72 >	9.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
74 >	10.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
75	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
76	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
76	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
76	11.4	Special Protection Areas (SPA)	0	0	0	0	0
76	11.5	National Nature Reserves (NNR)	0	0	0	0	0
77	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
77	11.7	Designated Ancient Woodland	0	0	0	0	0
77	11.8	Biosphere Reserves	0	0	0	0	0
77	11.9	Forest Parks	0	0	0	0	0

78	11.10	Marine Conservation Zones	0	0	0	0	0
78 >	11.11 >	Green Belt >	1	0	0	0	0
78	11.12	Proposed Ramsar sites	0	0	0	0	0
78	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
79	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
79	11.15	Nitrate Sensitive Areas	0	0	0	0	0
79 >	11.16 >	Nitrate Vulnerable Zones >	1	1	0	2	2
80 >	11.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
81	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
82	12.1	World Heritage Sites	0	0	0	-	-
83	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
83	12.3	National Parks	0	0	0	-	-
83 >	12.4 >	Listed Buildings >	0	1	0	-	-
84	12.5	Conservation Areas	0	0	0	-	-
84	12.6	Scheduled Ancient Monuments	0	0	0	-	-
84	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
85 >	13.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
86	13.2	Open Access Land	0	0	0	-	-
86	13.3	Tree Felling Licences	0	0	0	-	-
86 >	13.4 >	Environmental Stewardship Schemes >	4	4	0	-	-
87 >	13.5 >	Countryside Stewardship Schemes >	3	3	2	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	14.1 >	Priority Habitat Inventory >	1	3	0	-	-
89	14.2	Habitat Networks	0	0	0	-	-
89	14.3	Open Mosaic Habitat	0	0	0	-	-
89	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 83.35ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 83.35ha

Recent site history - 2017 aerial photograph

Capture Date: 19/09/2017

Site Area: 83.35ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

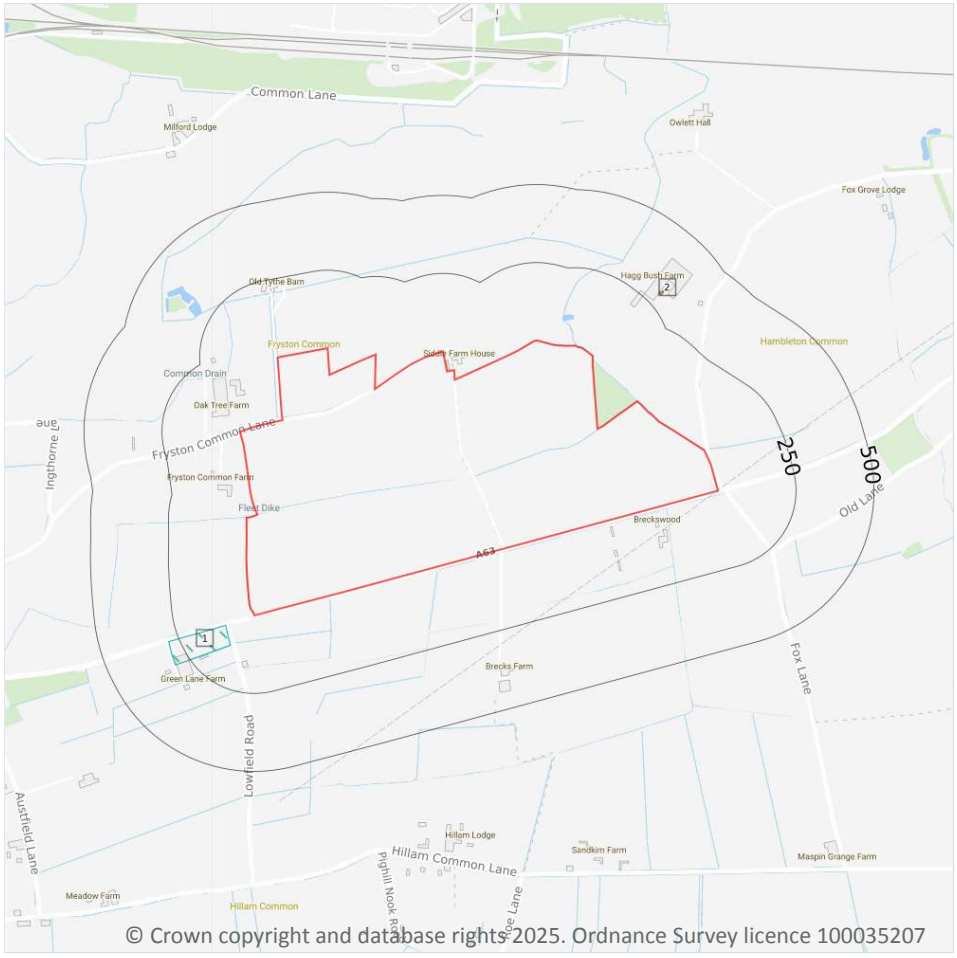
Site Area: 83.35ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 83.35ha

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	1

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 11 >**

ID	Location	Land use	Dates present	Group ID
1	97m SW	Unspecified Warehouse	1987	1471333

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	1

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 11 >**

ID	Location	Land use	Dates present	Group ID
2	293m NE	Tanks	1995	235374

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.

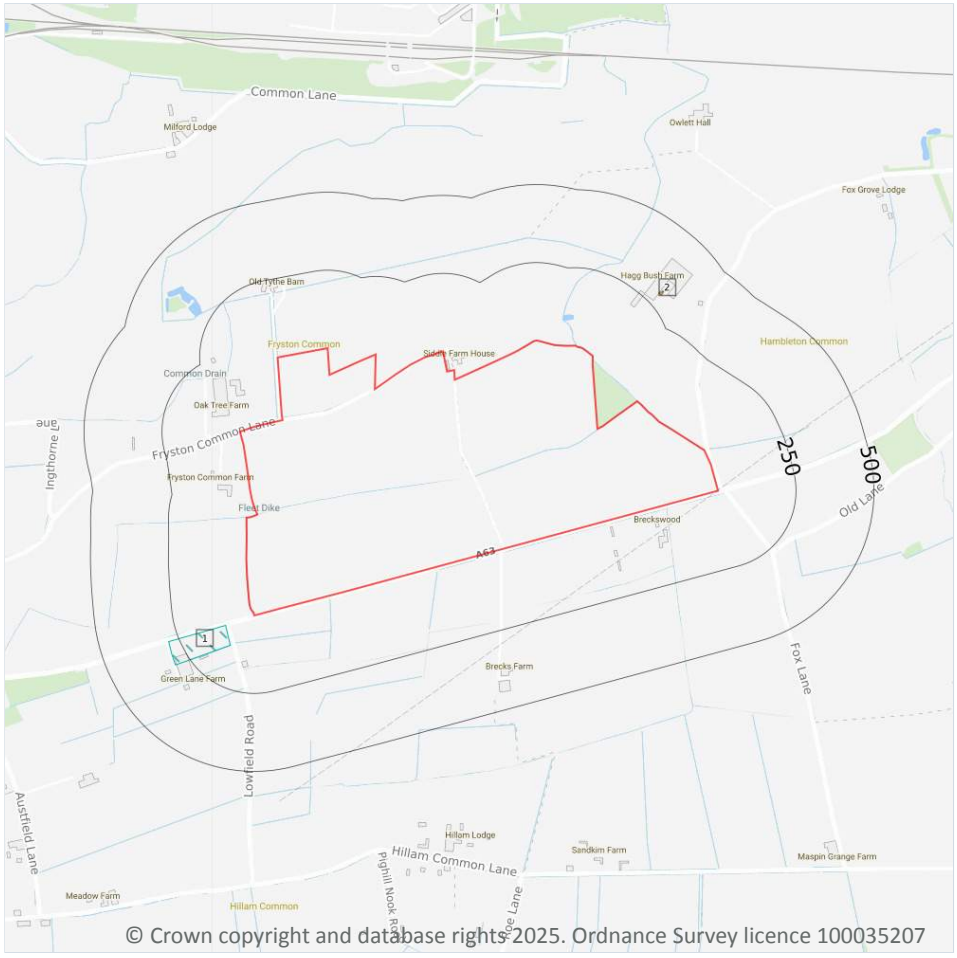
1.6 Historical military land

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	1

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 14 >**

ID	Location	Land Use	Date	Group ID
1	97m SW	Unspecified Warehouse	1987	1471333

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	1

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 14 >**

ID	Location	Land Use	Date	Group ID
2	293m NE	Tanks	1995	235374

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.

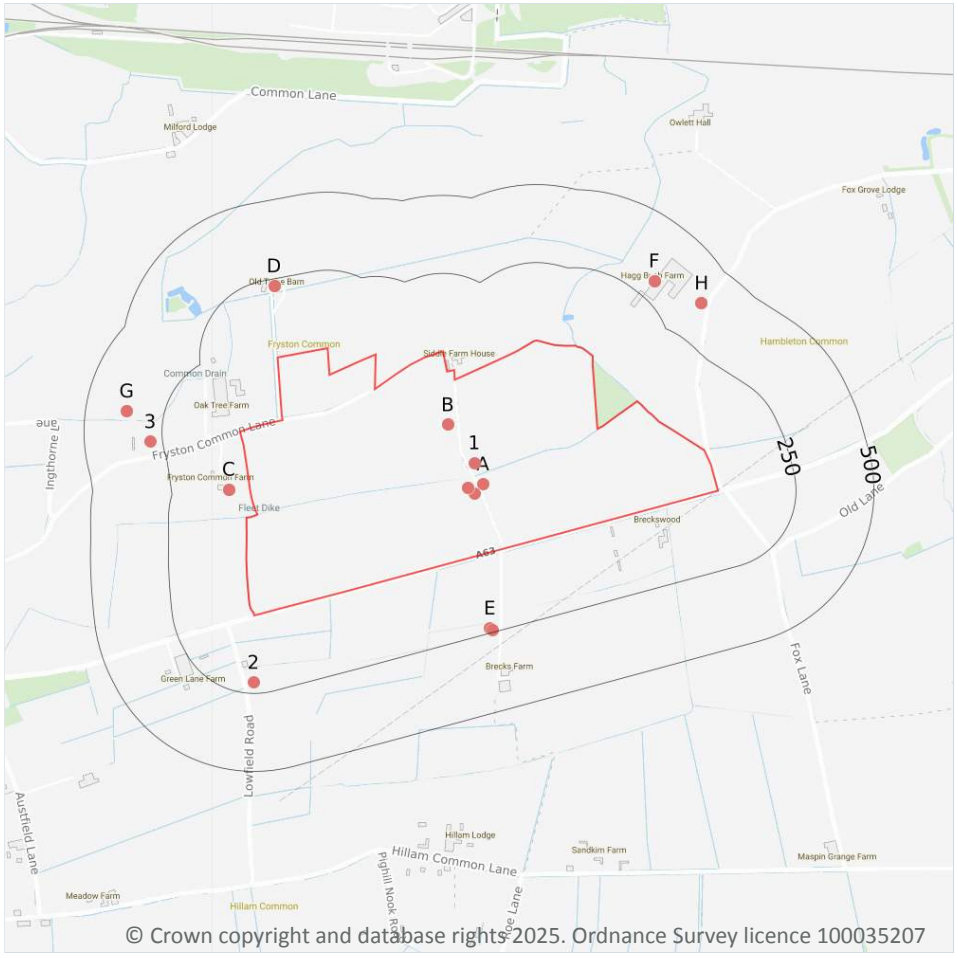
2.5 Historical garages

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



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Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	72

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

Features are displayed on the Waste and landfill map on **page 16 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**-**	**WEX373799**	**Storing waste exemption**	**On a farm**	**Storage of sludge**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**-**	**WEX373830**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX289872**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX224351**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX245961**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**-**	**WEX224358**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**-**	**WEX245962**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in secure containers
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
C	68m W	Fryston Common Farm Fryston Common Lane Leeds Ls25 5er	EPR/DH0078SX/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
2	217m SW	-	WEX251899	Storing waste exemption	On a farm	Storage of sludge
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	226m NW	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
E	236m S	Manor Farm Manor Road Goole North Humberside Dn14 0st	EPR/MF0438VA/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
E	245m S	Manor Farm, Manor Road, Beal, Goole, Dn14 0st	WEX116419	Storing waste exemption	On a farm	Storage of sludge
3	291m W	Land At Se5179030380	EPR/WE5753WX/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Storing waste exemption	On a farm	Storage of waste in secure containers
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Disposing of waste exemption	On a farm	Burning waste in the open
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Treating waste exemption	On a farm	Recovery of scrap metal
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX330058	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Disposing of waste exemption	On a farm	Burning waste in the open
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Treating waste exemption	On a farm	Sorting mixed waste
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Treating waste exemption	On a farm	Recovery of scrap metal

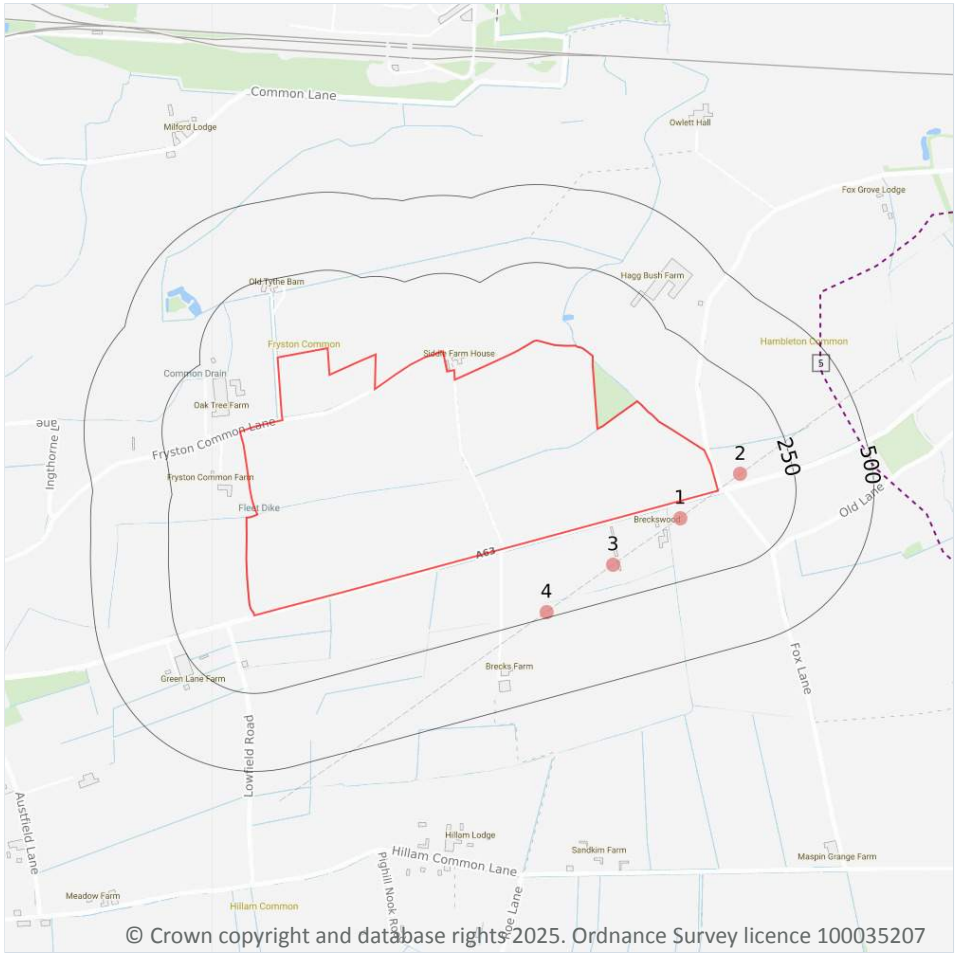
ID	Location	Site	Reference	Category	Sub-Category	Description
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Storing waste exemption	On a farm	Storage of waste in secure containers
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Using waste exemption	On a farm	Use of waste in construction
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Storing waste exemption	On a farm	Storage of waste in secure containers
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Storing waste exemption	On a farm	Storage of waste in a secure place
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Treating waste exemption	On a farm	Sorting and de-naturing of controlled drugs for disposal
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Using waste exemption	On a farm	Use of waste in construction
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX036665	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Treating waste exemption	On a farm	Recovery of scrap metal
F	309m NE	Hagg Bush Farm, Common Lane, Hambleton, Selby, Yo8 9jw	WEX197266	Disposing of waste exemption	On a farm	Burning waste in the open
G	369m W	-	WEX324253	Storing waste exemption	On a farm	Storage of sludge
G	369m W	Honeypot Farm, High Street, South Milford, Leeds, Ls25 5aq	WEX156123	Storing waste exemption	On a farm	Storage of sludge
H	375m NE	-	WEX361982	Using waste exemption	On a farm	Use of waste in construction
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA/A001	Treating waste exemption	Agricultural waste only	Cleaning, washing, spraying or coating relevant waste
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Using waste exemption	Agricultural waste only	Incorporation of ash into soil
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
H	375m NE	Hagg Bush Farm Common Lane Selby North Yorkshire Yo8 9jw	EPR/JH0671CA /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

Gas pipelines

4.1 Recent industrial land uses

Records within 250m	4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 24 >**

ID	Location	Company	Address	Activity	Category
1	53m E	Pylon	North Yorkshire, LS25	Electrical Features	Infrastructure and Facilities
2	83m E	Pylon	North Yorkshire, YO8	Electrical Features	Infrastructure and Facilities
3	140m SE	Pylon	North Yorkshire, LS25	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	231m SE	Pylon	North Yorkshire, LS25	Electrical Features	Infrastructure and Facilities

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	1

High pressure underground gas transmission pipelines.

Features are displayed on the Current industrial land use map on **page 24 >**

ID	Location	Pipe Name	Details	
5	449m E	ASSELBY TO PANNAL	Pipe Number: - Pipeline Safety Regulations Number: - Ownership: National Grid Maximum Operating Pressure (Bar): -	Pipeline Diameter (mm): 1200 Wall Thickness (mm): - Year of commission: Not specified Abandonment Status: Not abandoned

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	0

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.

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	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	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	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	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	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**LDE-CLAY**	**LACUSTRINE DEPOSITS (UNDIFFERENTIATED)**	**CLAY**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

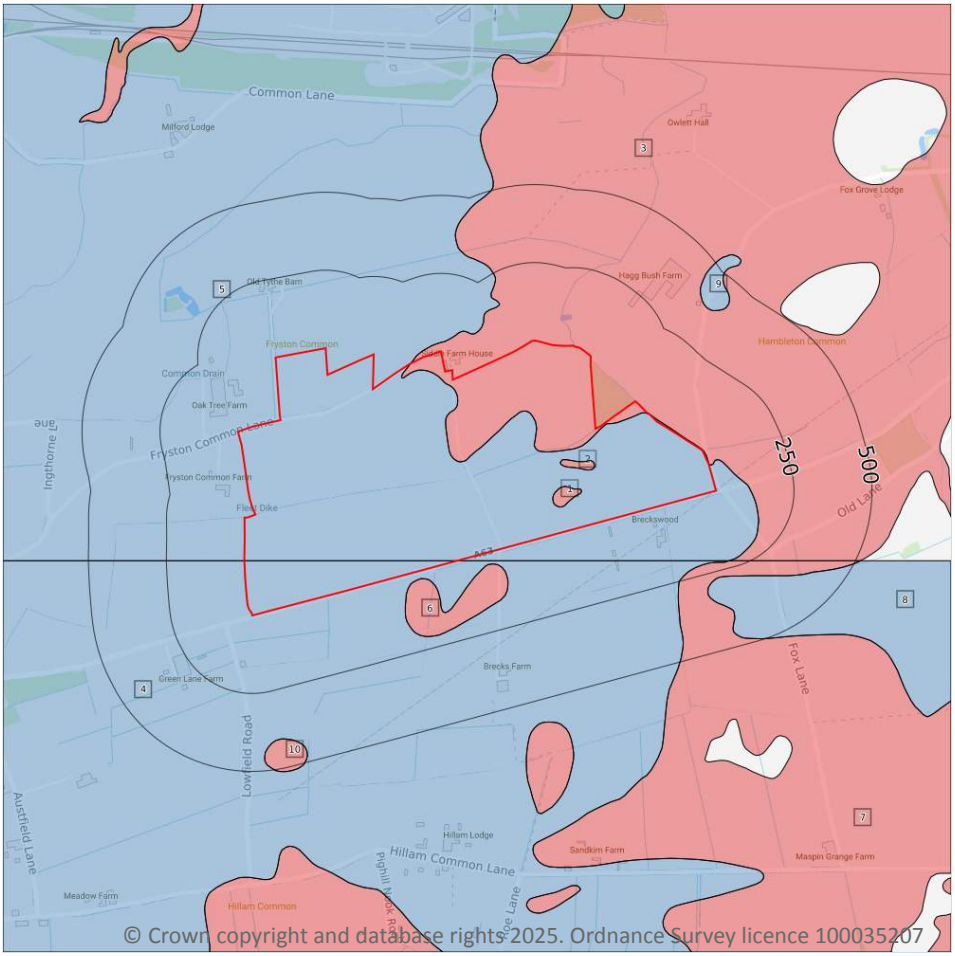
Records within 500m	2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**PUND-MDSS**	**PERMIAN ROCKS (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE AND SANDSTONE**
On site	**TRIA-SCON**	**TRIASSIC ROCKS (UNDIFFERENTIATED)**	**SANDSTONE AND CONGLOMERATE, INTERBEDDED**

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	10

Aquifer status of groundwater held within superficial geology.

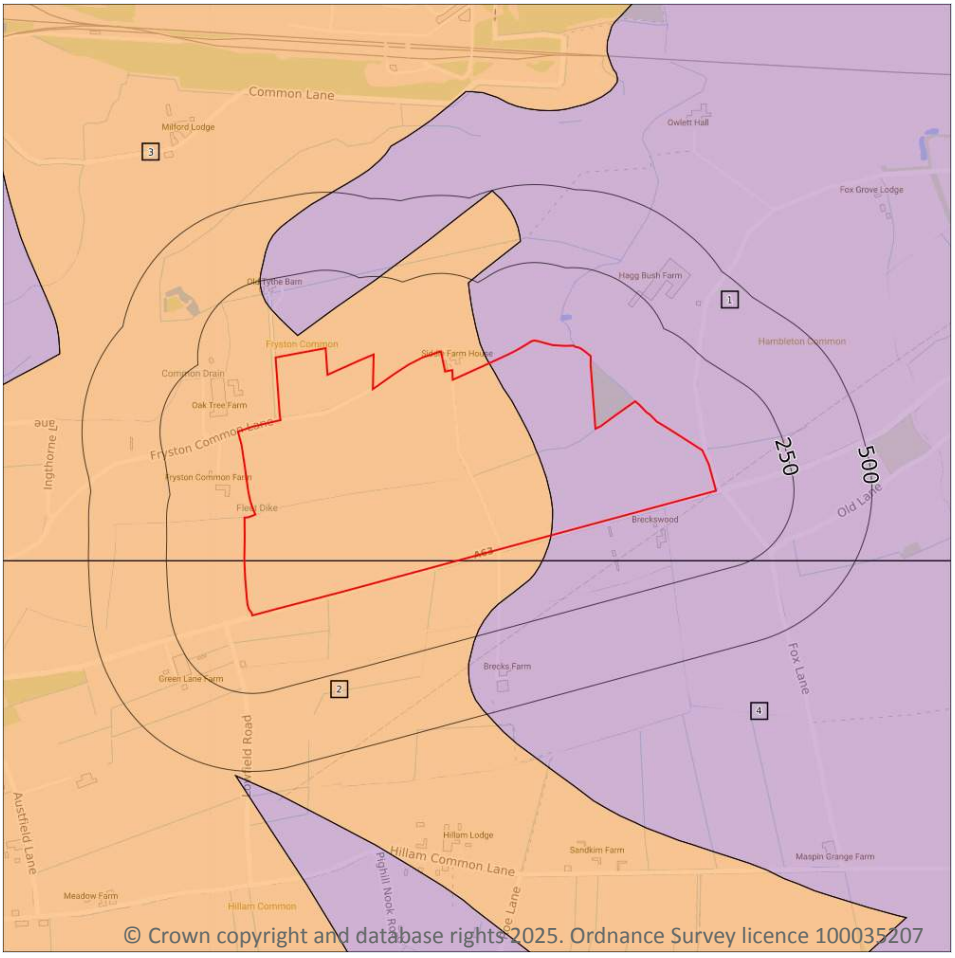
Features are displayed on the Hydrogeology map on **page 31 >**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
4	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
5	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
6	25m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	218m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	271m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	378m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	407m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



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Site Outline

Search buffers in metres (m)

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

6.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

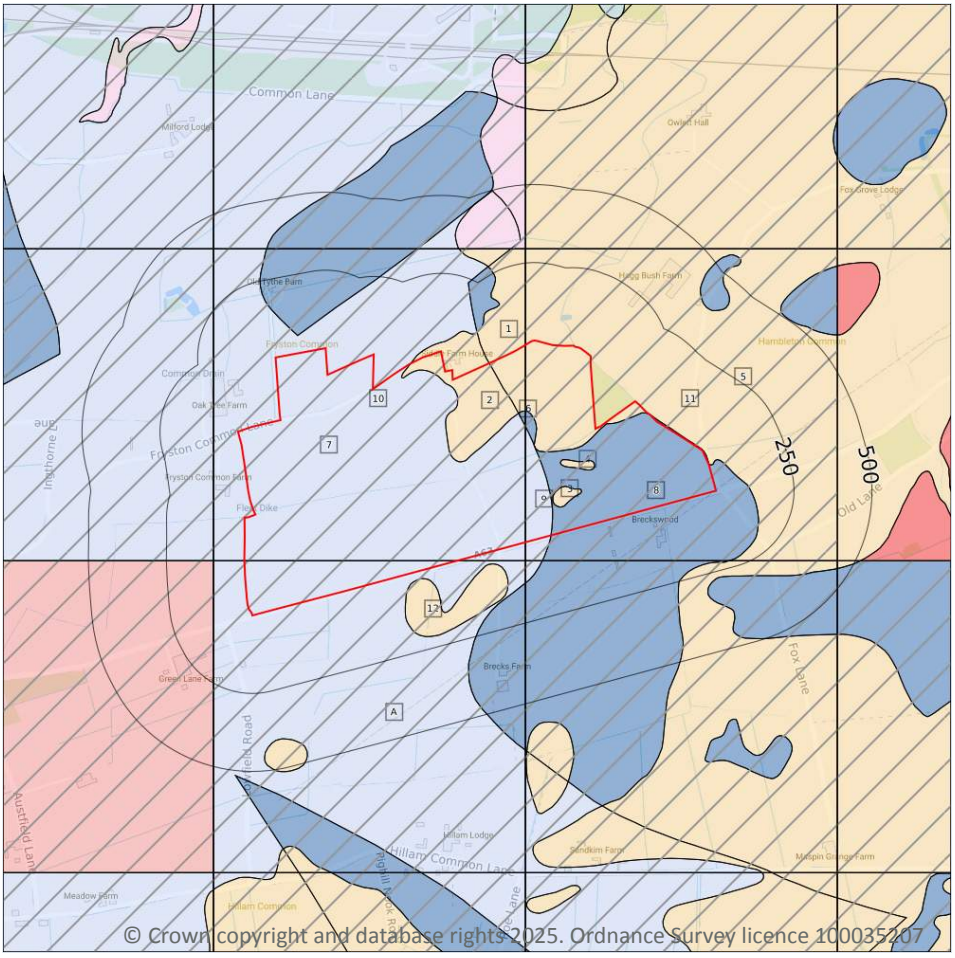
Features are displayed on the Bedrock aquifer map on **page 33 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Location	Designation	Description
3	**On site**	**Secondary B**	**Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers**
4	71m SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	11

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

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

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
8	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
9	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
12	25m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	**3**

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
10	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
11	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**19.0%**
A	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**

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

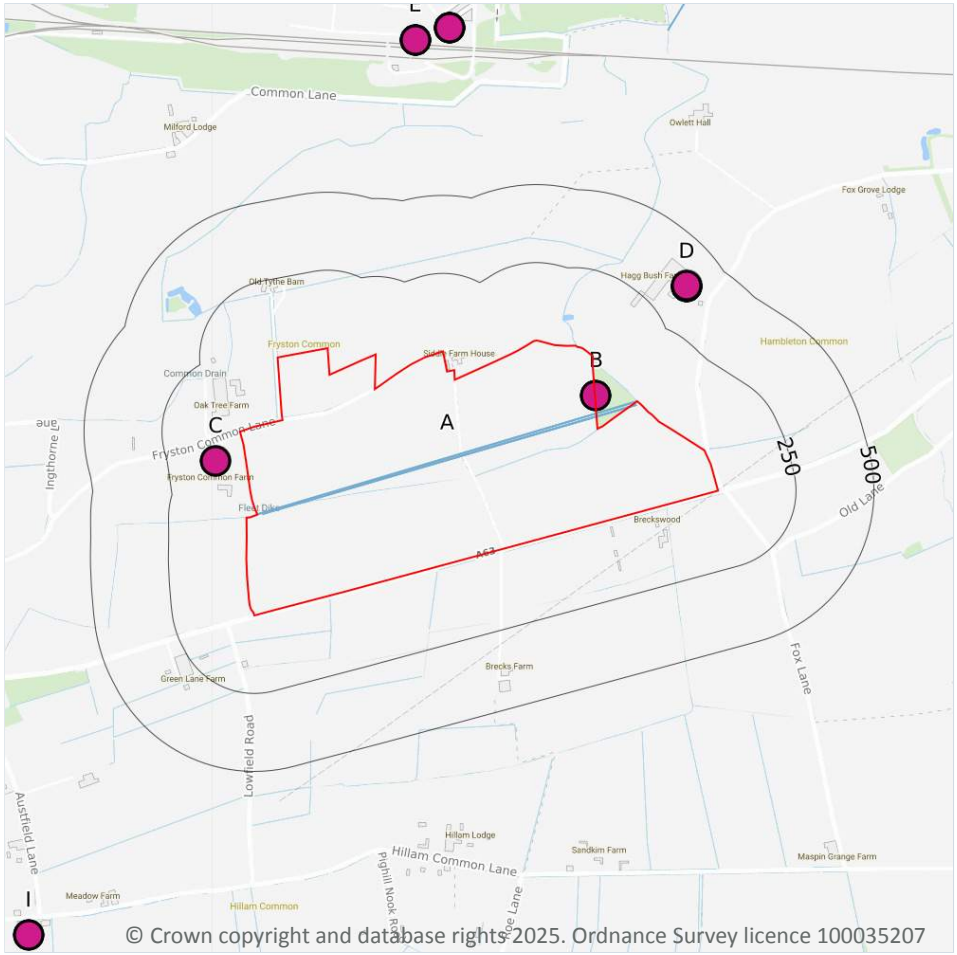
6.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



- Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	52

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 39 >**

ID	Location	Details	
B	4m NE	Status: Active Licence No: 2/27/24/446/R01 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
B	4m NE	Status: Active Licence No: 2/27/24/446/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
B	4m NE	Status: Historical Licence No: 2/27/24/446 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: J E HARTLEY LTD Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: - Original Start Date: 01/06/2005 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 30/06/2011 Version End Date: -
C	97m W	Status: Active Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - MONK FRYSTON Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): 9953 Max Daily Volume (m^3): 27.27 Original Application No: 7111 Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
C	97m W	Status: Historical Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1996 Version End Date: -
D	375m NE	Status: Historical Licence No: 2/27/24/325 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
D	375m NE	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
D	375m NE	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -

ID	Location	Details	
D	375m NE	Status: Historical Licence No: 2/27/24/325 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 11120 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
D	375m NE	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 11120 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
D	375m NE	Status: Historical Licence No: 2/27/24/459 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
D	377m NE	Status: Active Licence No: 2/27/24/459/R01 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453511 Northing: 430883	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: NPS/WR/016901 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -

ID	Location	Details	
D	377m NE	Status: Historical Licence No: 2/27/24/459 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453511 Northing: 430883	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (2) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
E	1003m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (1) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -

ID	Location	Details	
F	1039m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 600000 Max Daily Volume (m^3): 2718 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 600000 Max Daily Volume (m^3): 2718 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 3 - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -

ID	Location	Details	
-	1182m N	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 3 - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
I	1255m SW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: -- BOREHOLE Data Type: Point Name: HILLAM GARDENS LIMITED Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
I	1255m SW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
I	1255m SW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 81.828 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
-	1434m SE	Status: Historical Licence No: 2/27/18/103 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE- SHERWOOD SANDSTONE - HAGGS HOUSE FARM Data Type: Point Name: BAILEY-HAGUE Easting: 454500 Northing: 429100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 101 Version Start Date: 09/05/2000 Version End Date: -

ID	Location	Details	
-	1525m E	Status: Active Licence No: 2/27/24/486/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 455122 Northing: 430433	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: NPS/WR/037792 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -
-	1525m E	Status: Active Licence No: 2/27/24/486/R01 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 455122 Northing: 430433	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: NPS/WR/037792 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -
-	1525m E	Status: Historical Licence No: 2/27/24/486 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 455122 Northing: 430433	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2015 Issue No: 107 Version Start Date: 04/11/2013 Version End Date: -
-	1548m E	Status: Historical Licence No: 2/27/24/354 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: SHERWOOD SANDSTONE Data Type: Point Name: H HEY & SONS Easting: 455150 Northing: 430390	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/11/1997 Expiry Date: 30/09/2007 Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -

ID	Location	Details	
-	1548m E	Status: Historical Licence No: 2/27/24/354 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON SELBY Data Type: Point Name: H HEY & SONS Easting: 455150 Northing: 430390	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: - Original Start Date: 17/11/1997 Expiry Date: 30/09/2007 Issue No: 101 Version Start Date: 10/11/2005 Version End Date: -
-	1548m E	Status: Historical Licence No: 2/27/24/354 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: H HEY & SONS Easting: 455150 Northing: 430390	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: - Original Start Date: 17/11/1997 Expiry Date: 30/09/2007 Issue No: 101 Version Start Date: 10/11/2005 Version End Date: -
-	1548m E	Status: Historical Licence No: 2/27/24/486 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 455150 Northing: 430390	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 800 Original Application No: - Original Start Date: 01/04/2008 Expiry Date: 31/03/2015 Issue No: 105 Version Start Date: 29/07/2011 Version End Date: -
-	1724m W	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450520 Northing: 431150	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -

ID	Location	Details	
-	1724m W	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450520 Northing: 431150	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
-	1756m W	Status: Historical Licence No: 2/27/24/118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: BAIRDS MALT LTD Easting: 450480 Northing: 431140	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1996 Version End Date: -
-	1786m NW	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 3 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450490 Northing: 431230	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450490 Northing: 431230	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -

ID	Location	Details	
-	1803m NW	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450550 Northing: 431380	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
-	1803m NW	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450550 Northing: 431380	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
-	1812m NW	Status: Historical Licence No: 2/27/24/118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: BAIRDS MALT LTD Easting: 450540 Northing: 431380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1996 Version End Date: -

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

6.7 Surface water abstractions

Records within 2000m	**11**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 39 >**

ID	Location	Details	
A	On site	Status: Active Licence No: 2/27/24/469/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: Hartleys Farming Ltd Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: NPS/WR/029547 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - SHERBURN IN ELMET Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: J E HARTLEY LTD Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -

ID	Location	Details	
1	1053m NE	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 453450 Northing: 431700	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1199m NW	Status: Active Licence No: 2/27/24/017 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: LUMBY COMMON DRAIN AND MILFORD COMMON DRAIN Data Type: Line Name: R T Batty & Son Easting: 450700 Northing: 431020	Annual Volume (m^3): 5818 Max Daily Volume (m^3): 291 Original Application No: NPS/WR/02467 Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 11/10/2016 Version End Date: -
-	1199m NW	Status: Historical Licence No: 2/27/24/017 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: LUMBY COMMON DRAIN & MILFORD COMMON DRAIN Data Type: Line Name: H A & L BATTY Easting: 450700 Northing: 431020	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 02/03/1999 Version End Date: -
-	1457m NW	Status: Historical Licence No: 2/27/24/433 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER Point: UNNAMES DRAIN - SOUTH MILFORD Data Type: Point Name: VAIRY Easting: 451110 Northing: 431620	Annual Volume (m^3): 3002 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 23/03/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 23/03/2004 Version End Date: -
-	1457m NW	Status: Historical Licence No: 2/27/24/433 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER Point: DRAIN - SOUTH MILFORD Data Type: Point Name: VAIRY Easting: 451110 Northing: 431620	Annual Volume (m^3): 3002 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 23/03/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 23/03/2004 Version End Date: -

ID	Location	Details	
-	1793m SE	Status: Active Licence No: NE/027/0018/008 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: MASPIN MOOR DRAIN Data Type: Line Name: H HEY & SONS Easting: 454114 Northing: 428504	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 800 Original Application No: NPS/WR/005993 Original Start Date: 05/04/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 05/04/2011 Version End Date: -

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

6.8 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.

6.9 Source Protection Zones

Records within 500m	**2**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 39 >**

ID	Location	Type	Description
C	46m W	1	Inner catchment
D	329m NE	1	Inner catchment

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

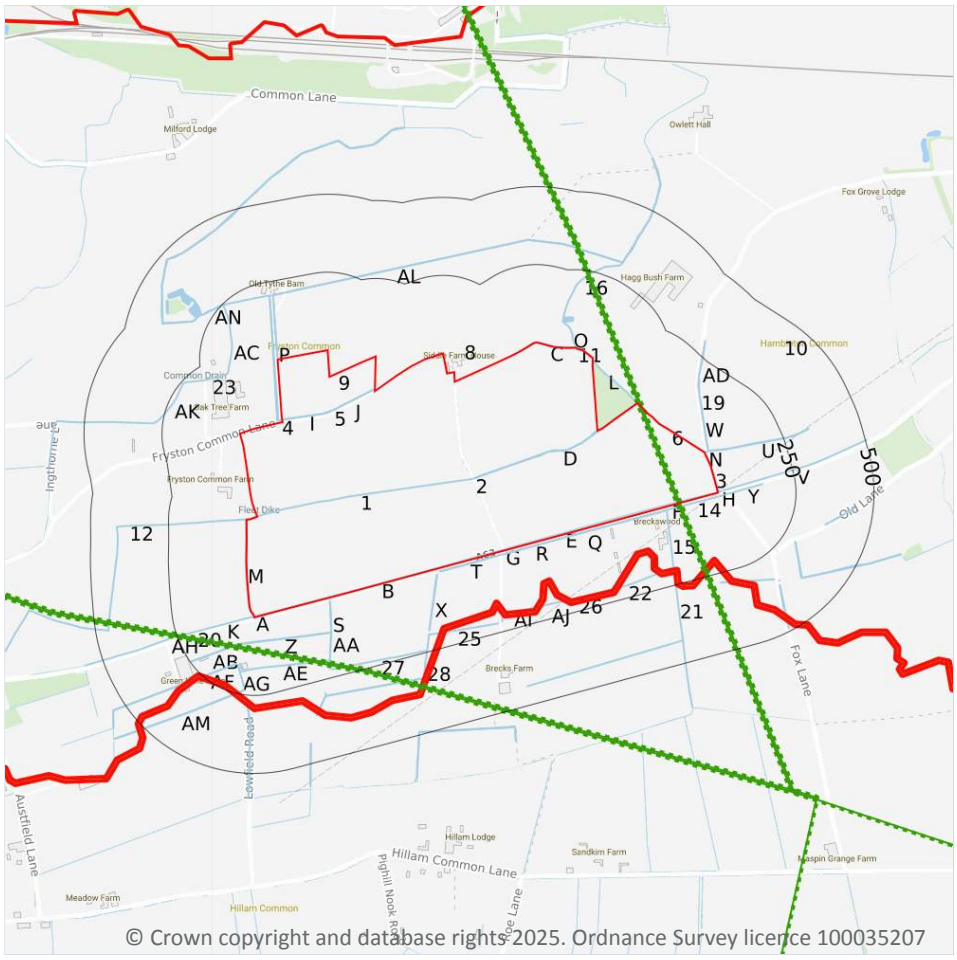
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	97

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

Features are displayed on the Hydrology map on **page 56 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Dike
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Causeway Dike
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Dike
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
F	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Causeway Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
G	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Causeway Dike**
H	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Causeway Dike**
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
J	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
11	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
L	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	1m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	2m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Dike
N	2m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
P	6m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	8m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
E	10m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	10m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	10m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	10m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	10m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	10m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	10m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	10m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	10m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	10m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	11m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
15	11m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	11m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
F	12m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	14m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	14m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	16m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
W	16m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	17m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	20m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	34m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	73m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	77m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	78m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	90m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	90m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AA	110m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	121m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	134m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	139m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
19	145m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	145m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	149m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
AD	150m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	153m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	153m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	157m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	158m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	178m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AA	181m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	184m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
20	185m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Causeway Dike
AH	192m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Causeway Dike
21	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	194m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	195m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	195m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	196m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain
P	197m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
25	197m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AI	199m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	200m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	205m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	205m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
P	205m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
P	205m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain
P	206m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
P	206m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
AK	206m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
P	206m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain
AL	206m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
26	208m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	211m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Common Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
P	212m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
27	225m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
28	245m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	248m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	37

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 56 >**

This data is sourced from the Ordnance Survey.

7.3 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 56 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
8	**On site**	**River**	**Selby Dam from Conf. Fox Dike and Carr Dike to Ouse**	**GB104027063620**	**Ouse Lower Yorkshire**	**Wharfe and Ouse Lower**

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

7.4 WFD Surface water bodies

Records identified	**1**

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

Features are displayed on the Hydrology map on **page 56 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2308m NE	River	Selby Dam from Conf. Fox Dike and Carr Dike to Ouse	GB104027063620 ↗	Moderate	Fail	Moderate	2019

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

7.5 WFD Groundwater bodies

Records on site	**2**

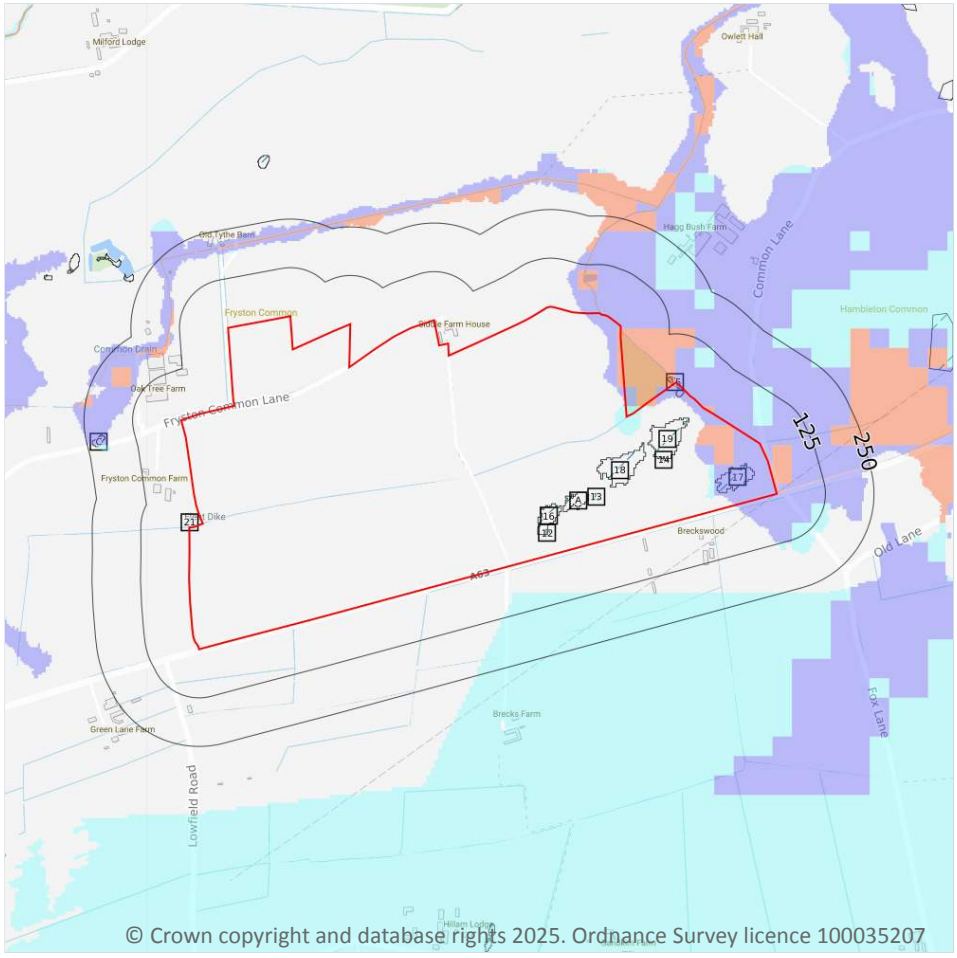
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 56 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
9	**On site**	**Wharfe Magnesian Limestone**	**GB40401G701100 ↗**	**Poor**	**Poor**	**Good**	**2019**
10	**On site**	**Wharfe & Lower Ouse Sherwood Sandstone**	**GB40401G702400 ↗**	**Poor**	**Poor**	**Good**	**2019**

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

8 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

8.1 Risk of flooding from rivers and the sea

Records within 50m	13

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

Features are displayed on the River and coastal flooding map on **page 67 >**

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

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

8.2 Historical Flood Events

Records within 250m	**12**

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

Features are displayed on the River and coastal flooding map on **page 67 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
12	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
13	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
14	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
15	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
16	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
17	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
18	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
19	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
A	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
A	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
21	7m W	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
C	201m W	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data

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

8.3 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.

8.4 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.

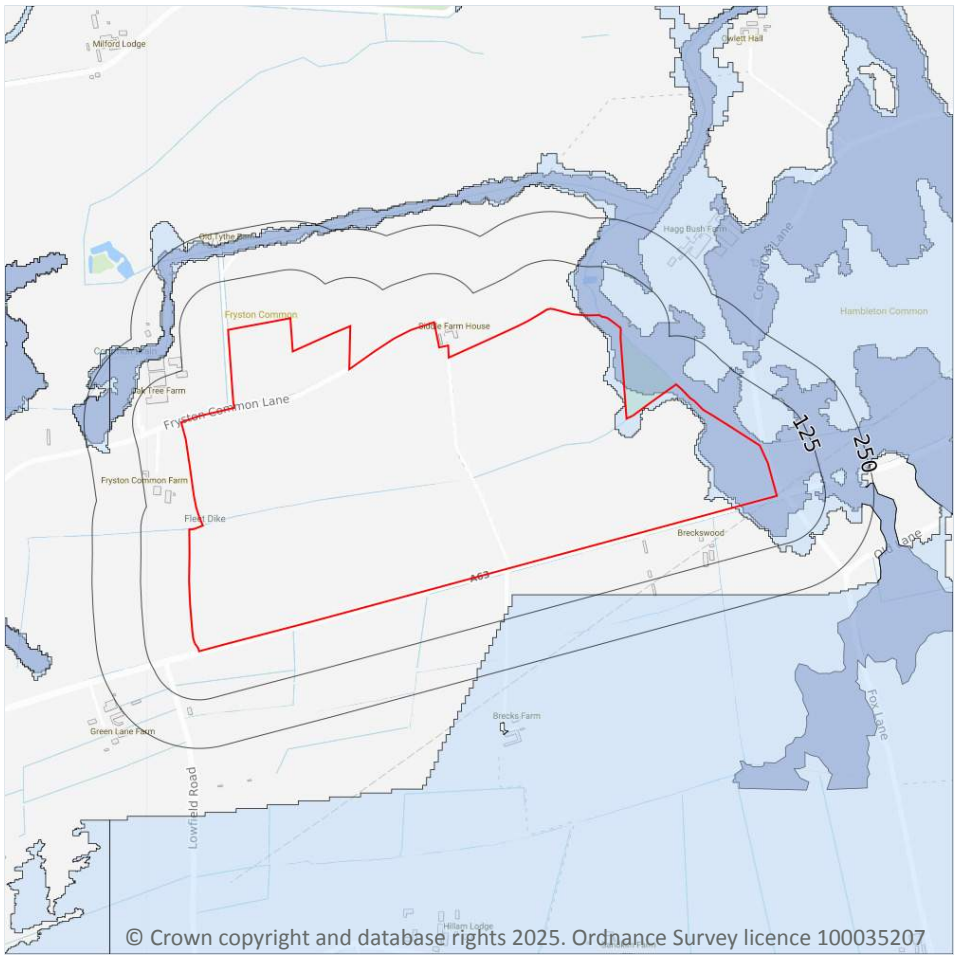
8.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

8.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 67 >**

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

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

8.7 Flood Zone 3

Records within 50m	1

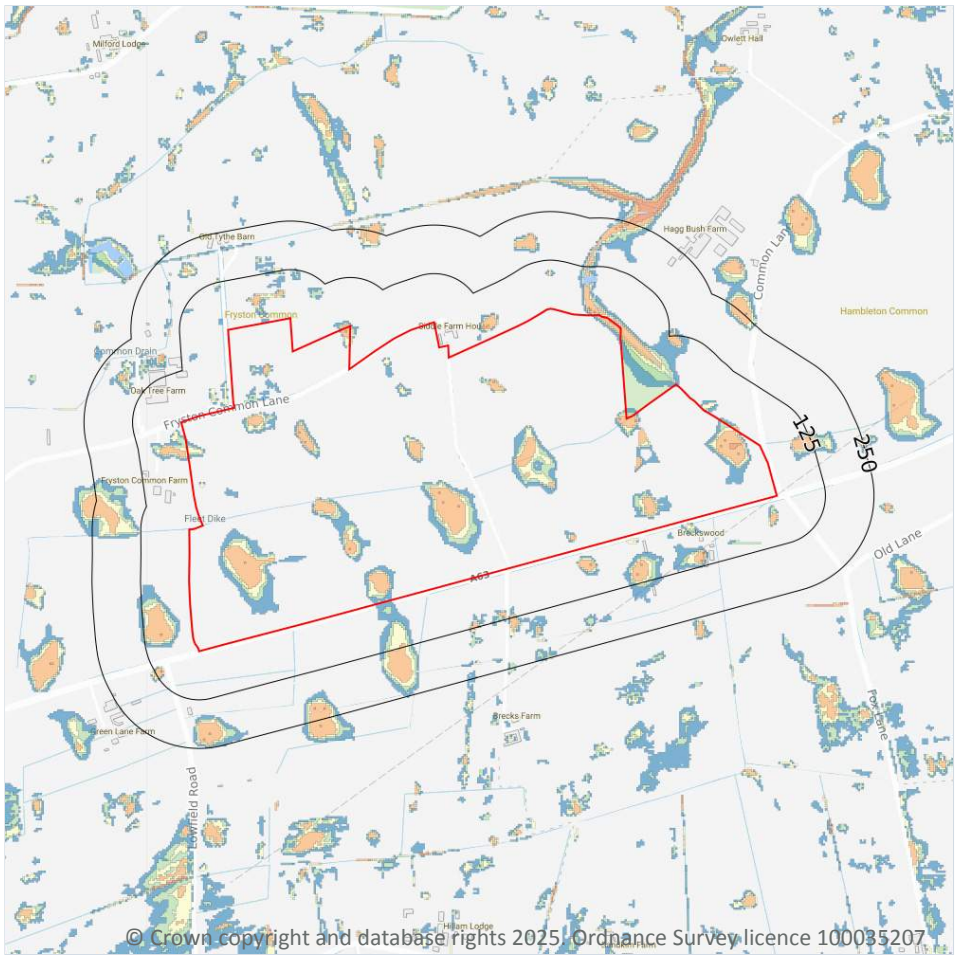
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 67 >**

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

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

9 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

9.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 72 >**

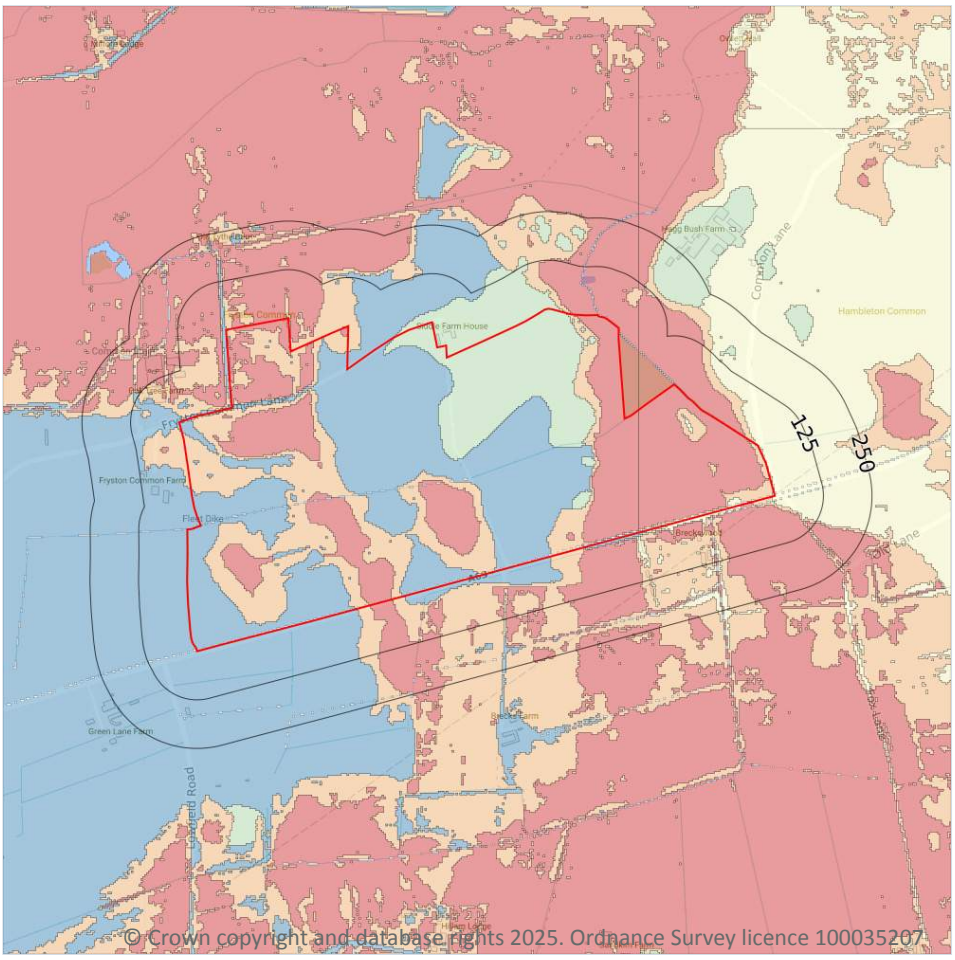
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding



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10.1 Groundwater flooding

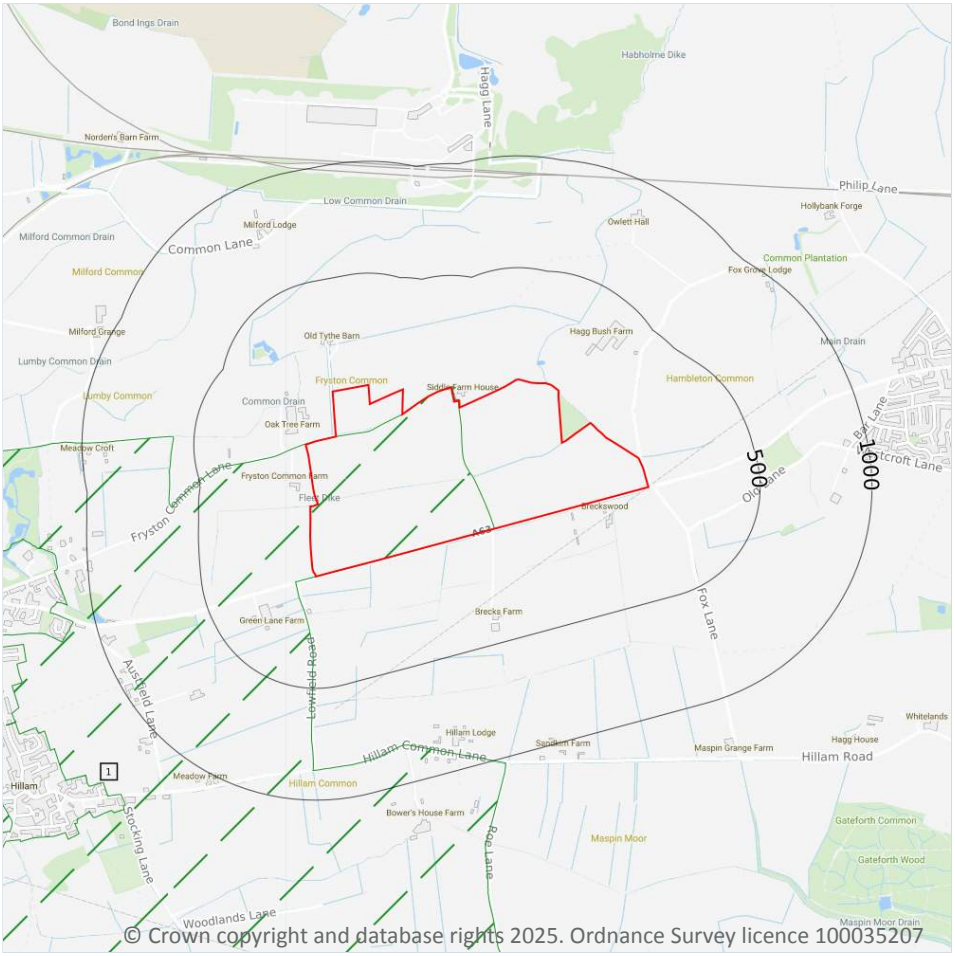
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 74 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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.

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

11.3 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.

11.4 Special Protection Areas (SPA)

Records within 2000m	0

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.

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

11.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

11.6 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.

11.7 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.

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 75 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Selby**

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

11.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

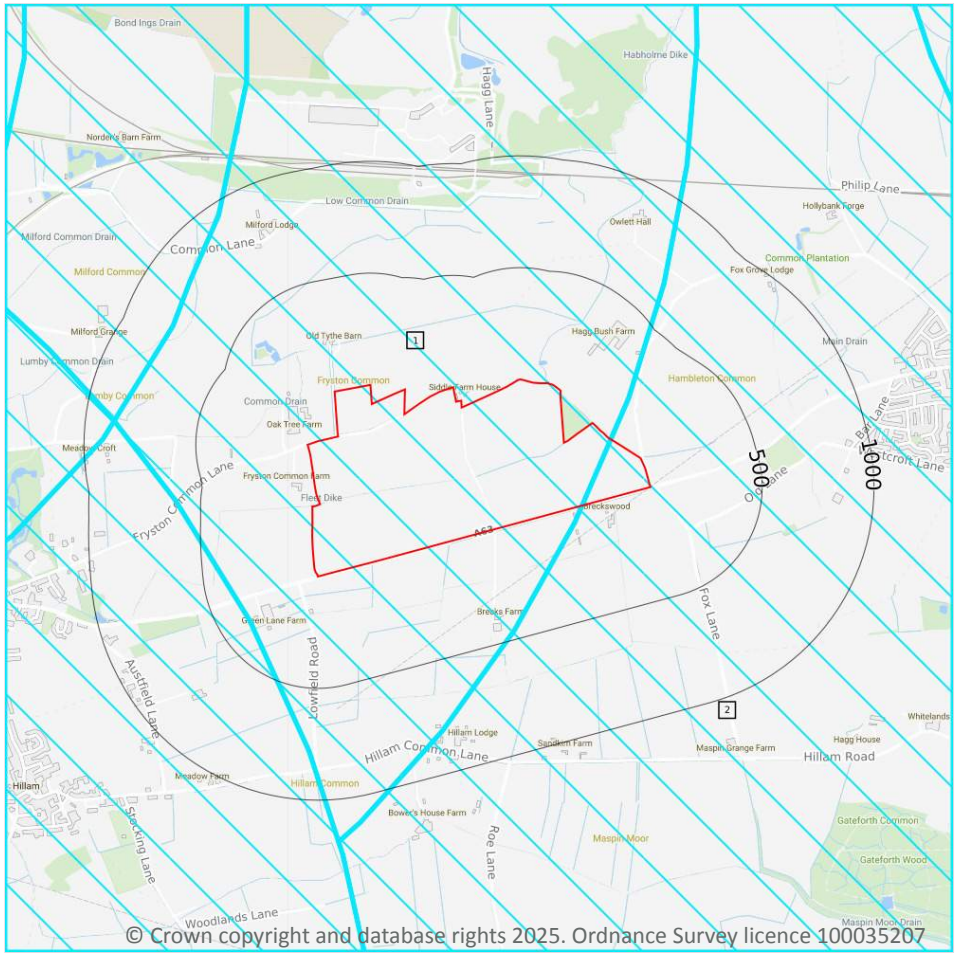
Records within 2000m	6

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

Location	Name	Type	NVZ ID	Status
On site	**The Fleet from Source to River Aire NVZ**	**Surface Water**	**272**	**Existing**
11m E	Selby Dam from Conf. Fox Dike & Carr Dike to Ouse NVZ	Surface Water	287	Existing
388m NW	Yorkshire Mag Limestone	Groundwater	101	Existing
481m E	The Fleet from Source to River Aire NVZ	Surface Water	272	Existing
556m E	Selby Dam from Conf. Fox Dike & Carr Dike to Ouse NVZ	Surface Water	287	Existing
723m E	Brayton	Groundwater	107	Existing

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

SSSI Impact Zones and Units



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Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

11.17 SSSI Impact Risk Zones

Records on site	2

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

Features are displayed on the SSSI Impact Zones and Units map on **page 80 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.**

ID	Location	Type of developments requiring consultation
2	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.**

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	**0**

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.

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

12 Visual and cultural designations

Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 82 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	8m SE	Milestone Approximately 0.5 Miles East Of Junction With Lowfield Road	II	1148541	14/03/1986

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

12.5 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.

12.6 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.

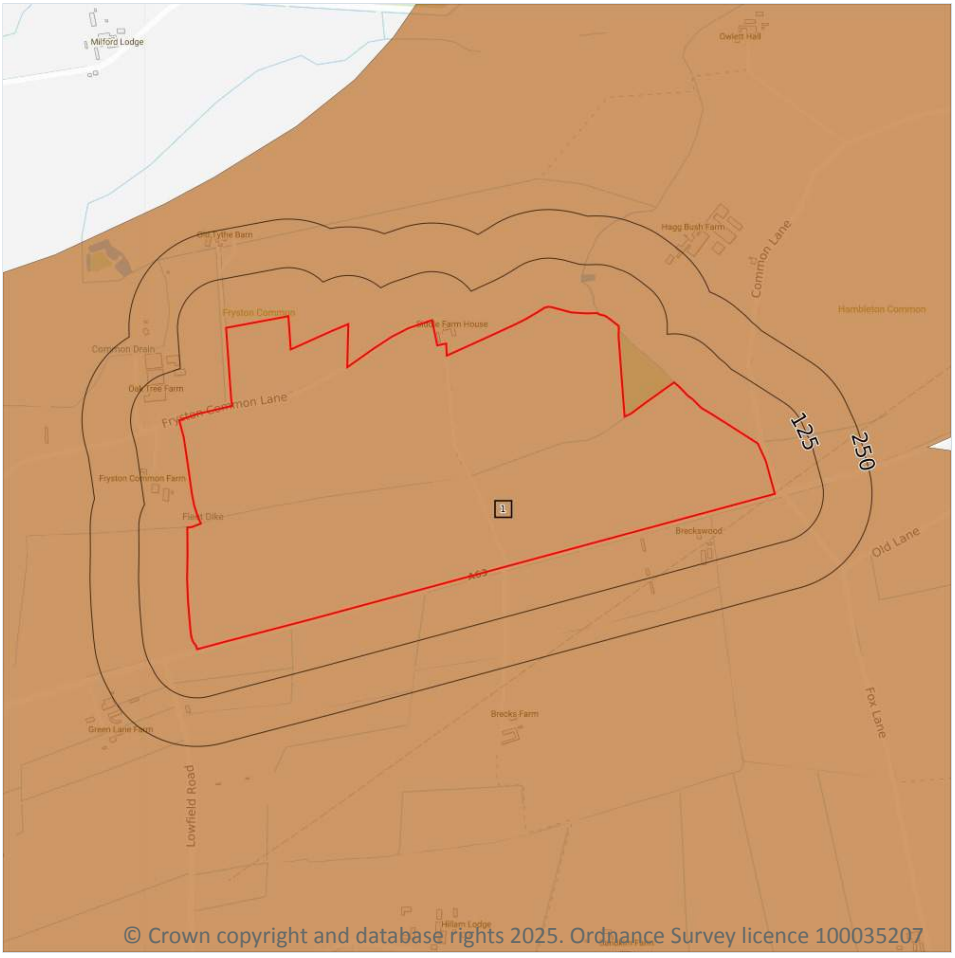
12.7 Registered Parks and Gardens

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.

13 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

13.1 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 85 >**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**

This data is sourced from Natural England.

13.2 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.

13.3 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.

13.4 Environmental Stewardship Schemes

Records within 250m	**8**

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

Location	Reference	Scheme	Start Date	End date
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00516171**	**Entry Level Stewardship**	**01/10/2013**	**30/09/2018**

Location	Reference	Scheme	Start Date	End date
8m SE	AG00370674	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2021
9m S	AG00516171	Entry Level Stewardship	01/10/2013	30/09/2018
10m SE	AG00370674	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
12m E	AG00516171	Entry Level Stewardship	01/10/2013	30/09/2018

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

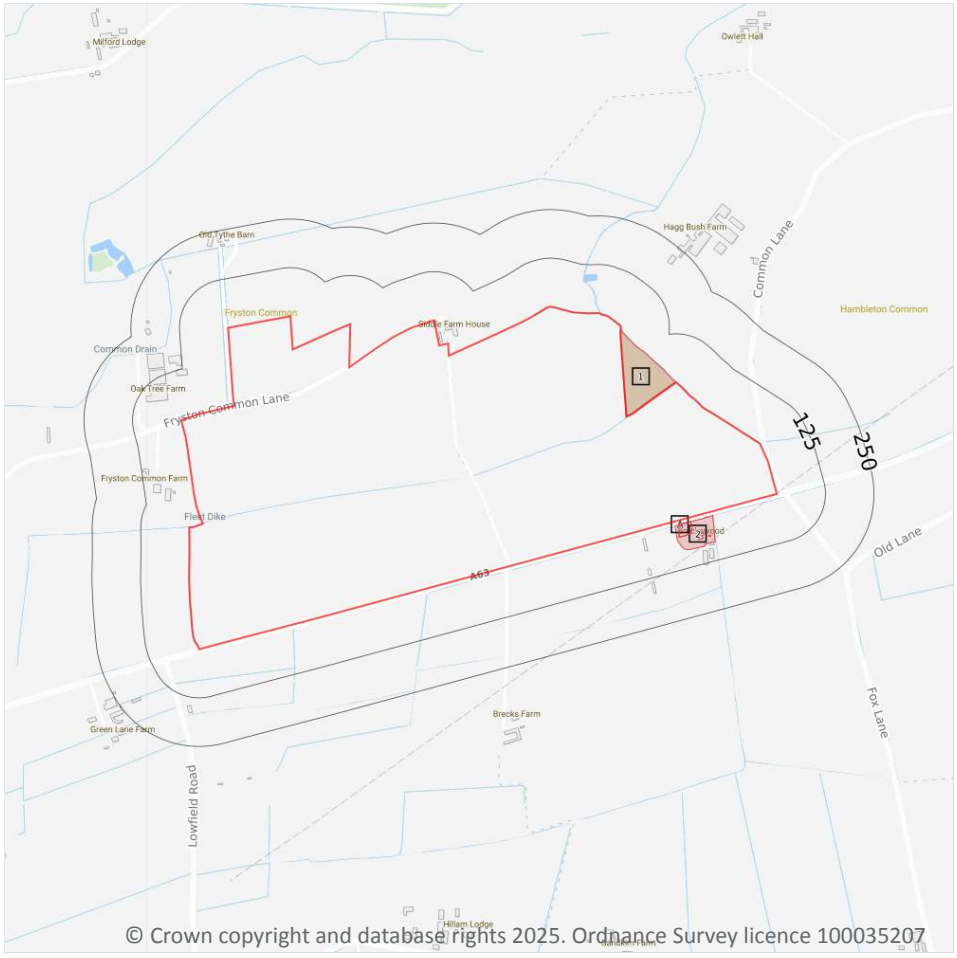
Records within 250m	**8**

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

Location	Reference	Scheme	Start Date	End Date
On site	**828062**	**Countryside Stewardship (Middle Tier)**	**01/01/2020**	**31/12/2024**
On site	**880571**	**Countryside Stewardship (Middle Tier)**	**01/01/2021**	**31/12/2025**
On site	**1054285**	**Countryside Stewardship (Middle Tier)**	**01/01/2021**	**31/12/2025**
9m E	880571	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
10m E	828062	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024
34m E	880571	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
113m W	1054285	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
205m W	1265318	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

14 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

14.1 Priority Habitat Inventory

Records within 250m	4

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

Features are displayed on the Habitat designations map on **page 88 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	10m E	No main habitat but additional habitats present	Additional: TORCH (INV 50%)
A	11m E	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
A	11m E	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

14.2 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.

14.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

14.4 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.

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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Groundsure LOCATION INTELLIGENCE

Geo Insight

302939-00 LVS - Site 2

Order Details

Date: 08/01/2025

Your ref: 302939-00 LVS Site 2

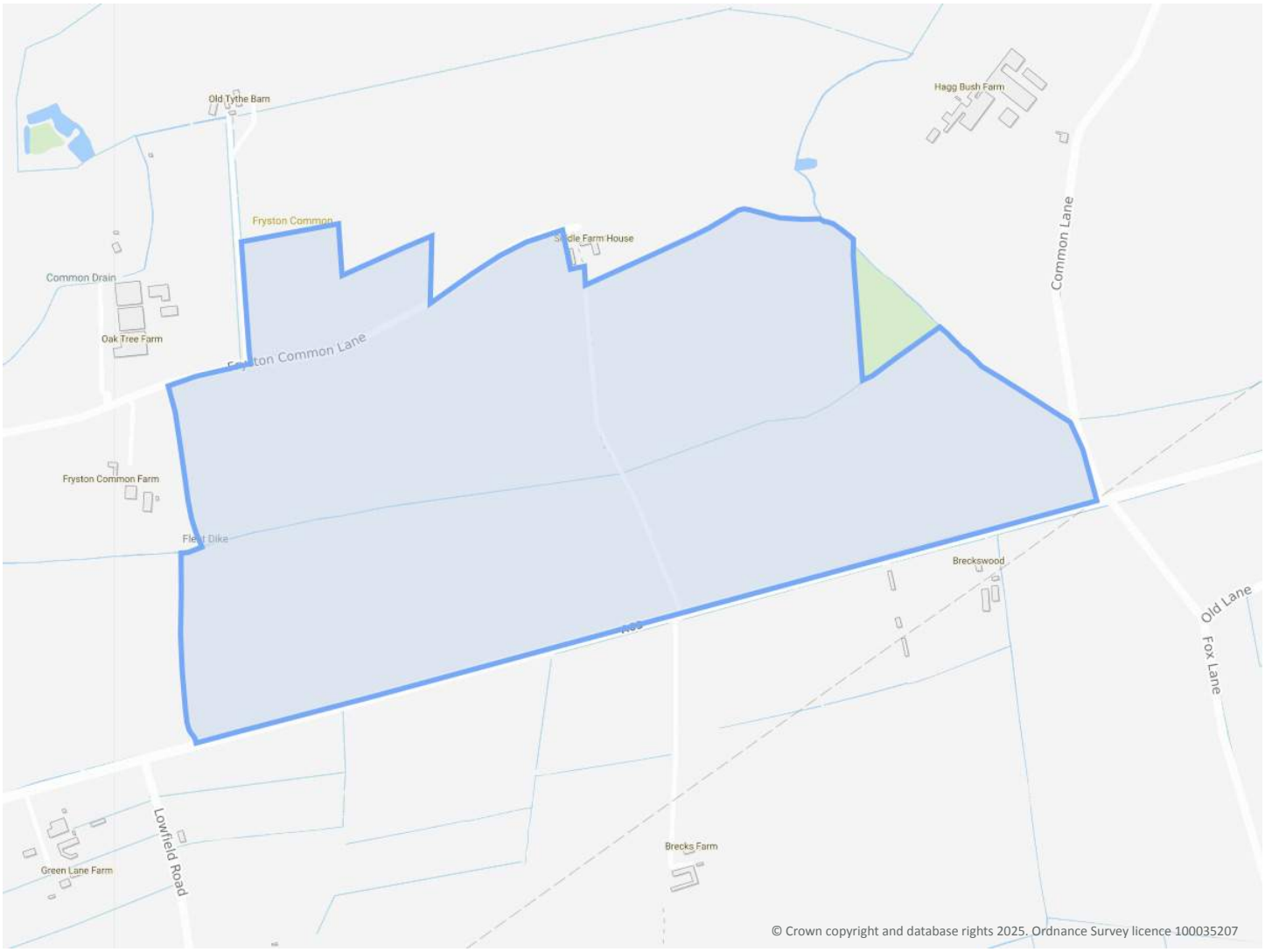
Our Ref: GS-XOL-FBB-51I-R2D

Site Details

Location: 452726 430296

Area: 83.35 ha

Authority: The North Yorkshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 5 >

Insight User Guide ↗

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

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Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
10 >	1.1 >	10k Availability >	Identified (within 500m)				
11 >	1.2 >	Artificial and made ground (10k) >	1	2	3	2	-
13 >	1.3 >	Superficial geology (10k) >	6	1	1	3	-
14	1.4	Landslip (10k)	0	0	0	0	-
15 >	1.5 >	Bedrock geology (10k) >	3	0	1	1	-
16 >	1.6 >	Bedrock faults and other linear features (10k) >	1	1	0	1	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
17 >	2.1 >	50k Availability >	Identified (within 500m)				
18	2.2	Artificial and made ground (50k)	0	0	0	0	-
18	2.3	Artificial ground permeability (50k)	0	0	-	-	-
19 >	2.4 >	Superficial geology (50k) >	5	1	0	2	-
20 >	2.5 >	Superficial permeability (50k) >	Identified (within 50m)				
20	2.6	Landslip (50k)	0	0	0	0	-
21	2.7	Landslip permeability (50k)	None (within 50m)				
22 >	2.8 >	Bedrock geology (50k) >	2	0	0	1	-
23 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
23 >	2.10 >	Bedrock faults and other linear features (50k) >	1	1	0	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	3.1 >	BGS Boreholes >	3	3	4	-	-
Page	Section	Natural ground subsidence >					
26 >	4.1 >	Shrink swell clays >	Low (within 50m)				
28 >	4.2 >	Running sands >	Low (within 50m)				
30 >	4.3 >	Compressible deposits >	Moderate (within 50m)				
32 >	4.4 >	Collapsible deposits >	Very low (within 50m)				
33 >	4.5 >	Landslides >	Very low (within 50m)				
34 >	4.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				

Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
36	5.1	BritPits	0	0	0	0	-
37	5.2	Surface ground workings	0	0	0	-	-
37 >	5.3 >	Underground workings >	0	0	0	0	1
37	5.4	Underground mining extents	0	0	0	0	-
37	5.5	Historical Mineral Planning Areas	0	0	0	0	-
38	5.6	Non-coal mining	0	0	0	0	0
38	5.7	JPB mining areas	None (within 0m)				
38	5.8	The Coal Authority non-coal mining	0	0	0	0	-
38	5.9	Researched mining	0	0	0	0	-
39	5.10	Mining record office plans	0	0	0	0	-
39	5.11	BGS mine plans	0	0	0	0	-
39 >	5.12 >	Coal mining >	Identified (within 0m)				
39	5.13	Brine areas	None (within 0m)				
40	5.14	Gypsum areas	None (within 0m)				
40	5.15	Tin mining	None (within 0m)				
40	5.16	Clay mining	None (within 0m)				

Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
41	6.1	Natural cavities	0	0	0	0	-
41	6.2	Mining cavities	0	0	0	0	0
41	6.3	Reported recent incidents	0	0	0	0	-
41	6.4	Historical incidents	0	0	0	0	-

Page	Section	Radon >	
43 >	7.1 >	Radon >	Less than 1% (within 0m)

Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	8.1 >	BGS Estimated Background Soil Chemistry >	27	3	-	-	-
46	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
46	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m

47	9.1	Underground railways (London)	0	0	0	-	-
47	9.2	Underground railways (Non-London)	0	0	0	-	-
47	9.3	Railway tunnels	0	0	0	-	-
47	9.4	Historical railway and tunnel features	0	0	0	-	-
47	9.5	Royal Mail tunnels	0	0	0	-	-
48	9.6	Historical railways	0	0	0	-	-
48	9.7	Railways	0	0	0	-	-
48	9.8	Crossrail 2	0	0	0	0	-
48	9.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 83.35ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 83.35ha

Recent site history - 2017 aerial photograph

Capture Date: 19/09/2017

Site Area: 83.35ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

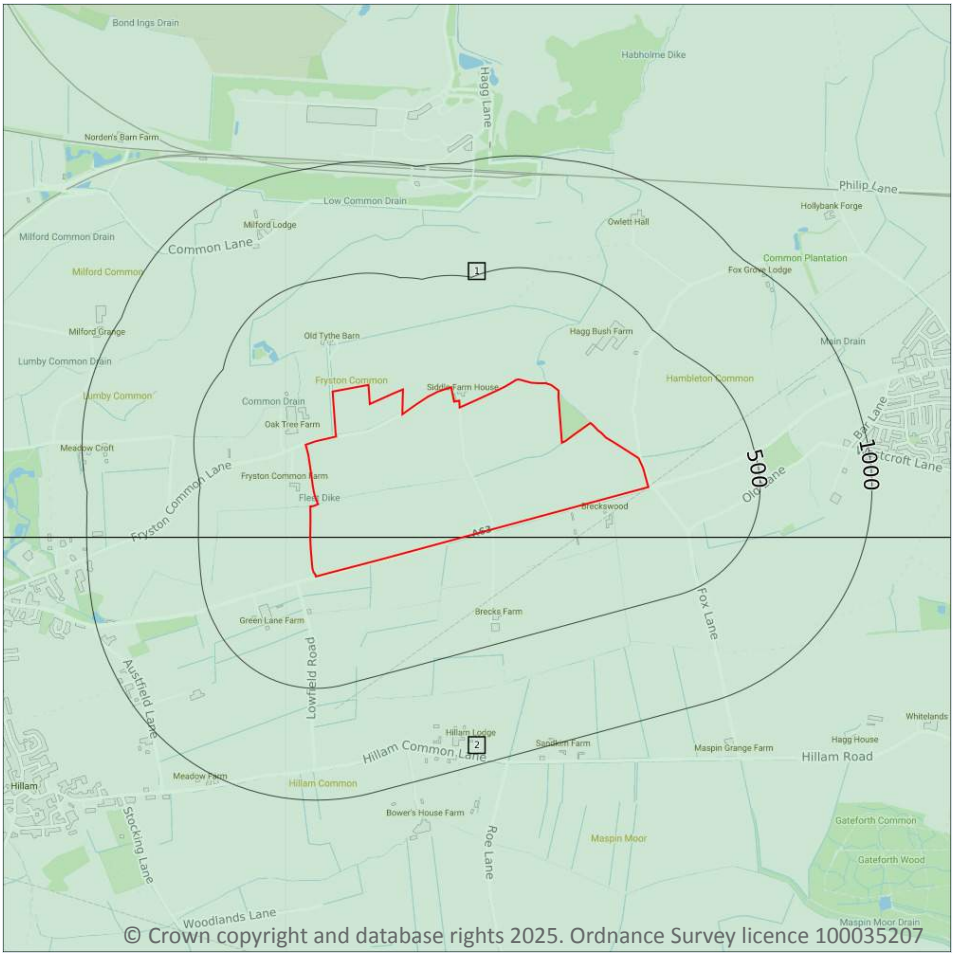
Site Area: 83.35ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 83.35ha

1 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

1.1 10k Availability

Records within 500m	2

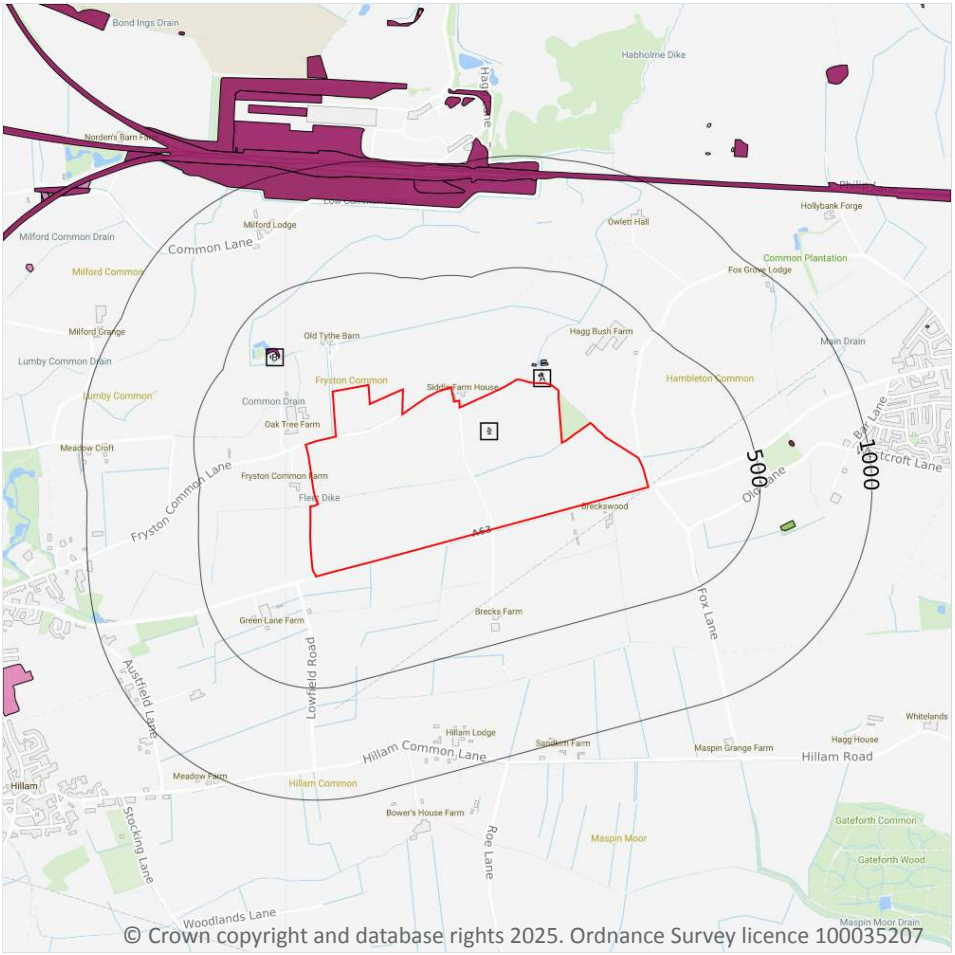
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SE53SW
2	On site	Full	Full	Full	No coverage	SE52NW

This data is sourced from the British Geological Survey.

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



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Site Outline

Search buffers in metres (m)

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

1.2 Artificial and made ground (10k)

Records within 500m	8

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.

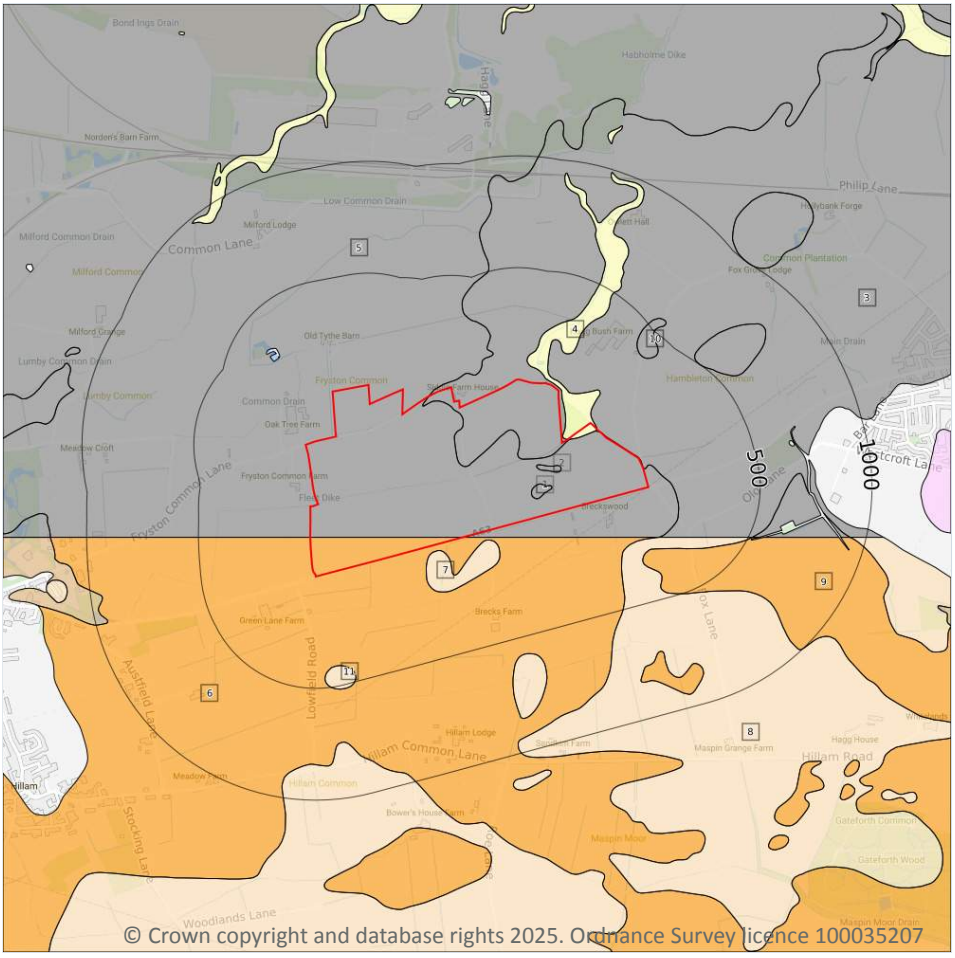
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 11 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	18m NE	WGR-VOID	Worked Ground (Undivided)	Void
A	31m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	75m NE	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
A	79m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	90m NE	WGR-VOID	Worked Ground (Undivided)	Void
B	283m NW	DDGR-UKNOWN	Disturbed Ground (Undivided)	Unknown/unclassified Entry
B	284m NW	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.

1.3 Superficial geology (10k)

Records within 500m	11

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 13 >**

ID	Location	LEX Code	Description	Rock description
1	On site	BREI-SZC	Breighton Sand Formation - Clayey Silty Sand	Sand, Silty, Clayey
2	On site	BREI-SZC	Breighton Sand Formation - Clayey Silty Sand	Sand, Silty, Clayey
3	On site	BREI-SZC	Breighton Sand Formation - Clayey Silty Sand	Sand, Silty, Clayey
4	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
5	**On site**	**HEM-CZPS**	**Hemingbrough Glaciolacustrine Formation - Clay, Silty, Peaty, Sandy (unlithified Deposits Coding Scheme)**	**Clay, Silty, Peaty, Sandy**
6	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
7	28m S	BREI-S	Breighton Sand Formation - Sand	Sand
8	220m E	BREI-S	Breighton Sand Formation - Sand	Sand
9	271m E	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
10	377m NE	HEM-CZPS	Hemingbrough Glaciolacustrine Formation - Clay, Silty, Peaty, Sandy (unlithified Deposits Coding Scheme)	Clay, Silty, Peaty, Sandy
11	410m SW	BREI-S	Breighton Sand Formation - Sand	Sand

This data is sourced from the British Geological Survey.

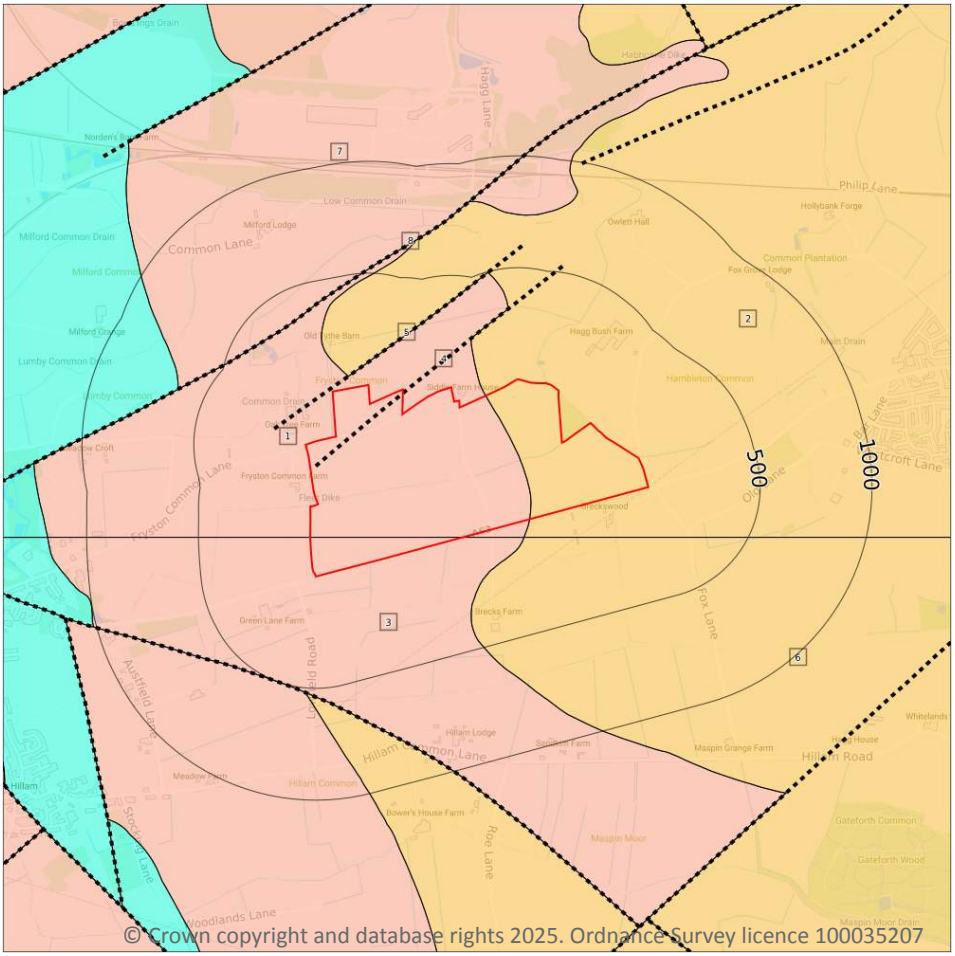
1.4 Landslip (10k)

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



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

1.5 Bedrock geology (10k)

Records within 500m	5

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 15 >**

ID	Location	LEX Code	Description	Rock age
1	On site	ROX-CAMDST	Roxby Formation - Calcareous Mudstone	Early Triassic Epoch - Late Permian Epoch [Obsolete name]
2	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

ID	Location	LEX Code	Description	Rock age
3	**On site**	**ROX-CAMDST**	**Roxby Formation - Calcareous Mudstone**	**Early Triassic Epoch - Late Permian Epoch [Obsolete name]**
6	72m SE	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]
7	356m NW	ROX-CAMDST	Roxby Formation - Calcareous Mudstone	Early Triassic Epoch - Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

1.6 Bedrock faults and other linear features (10k)

Records within 500m	**3**

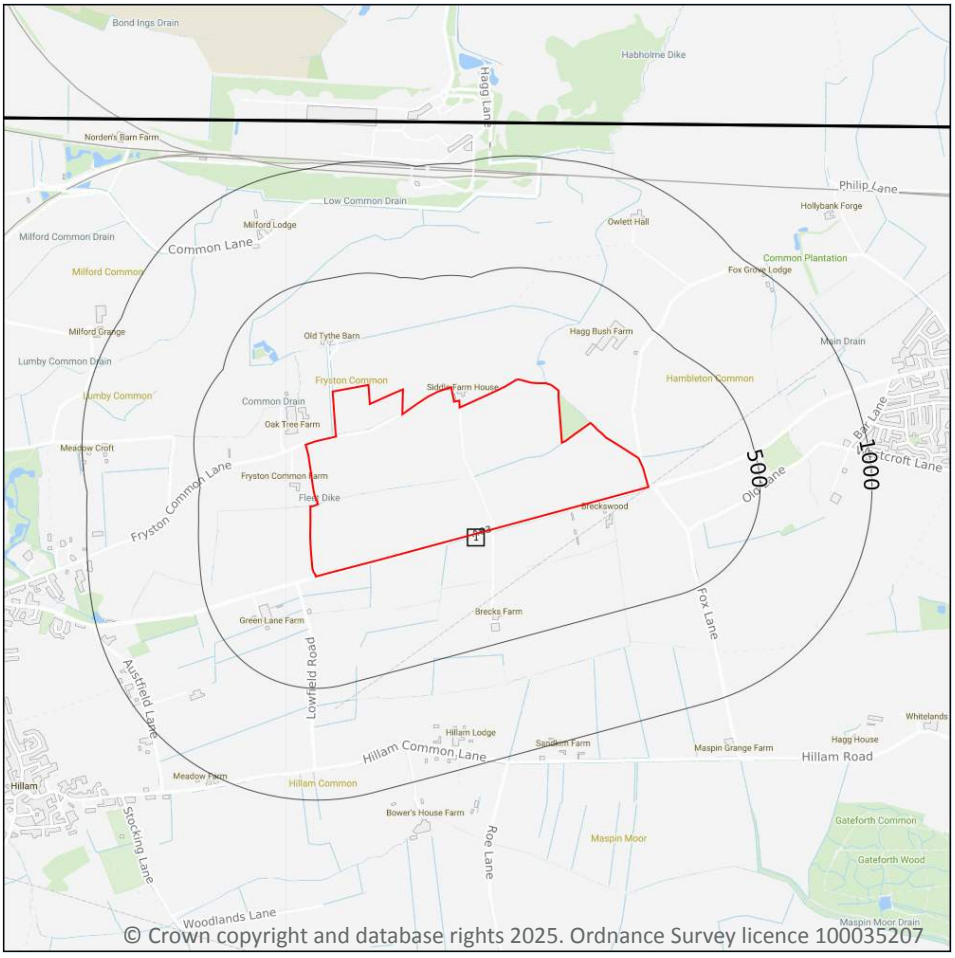
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 15 >**

ID	Location	Category	Description
4	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
5	16m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	356m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

2 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

2.1 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 17 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW078_wakefield_v4**

This data is sourced from the British Geological Survey.

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

2.2 Artificial and made ground (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

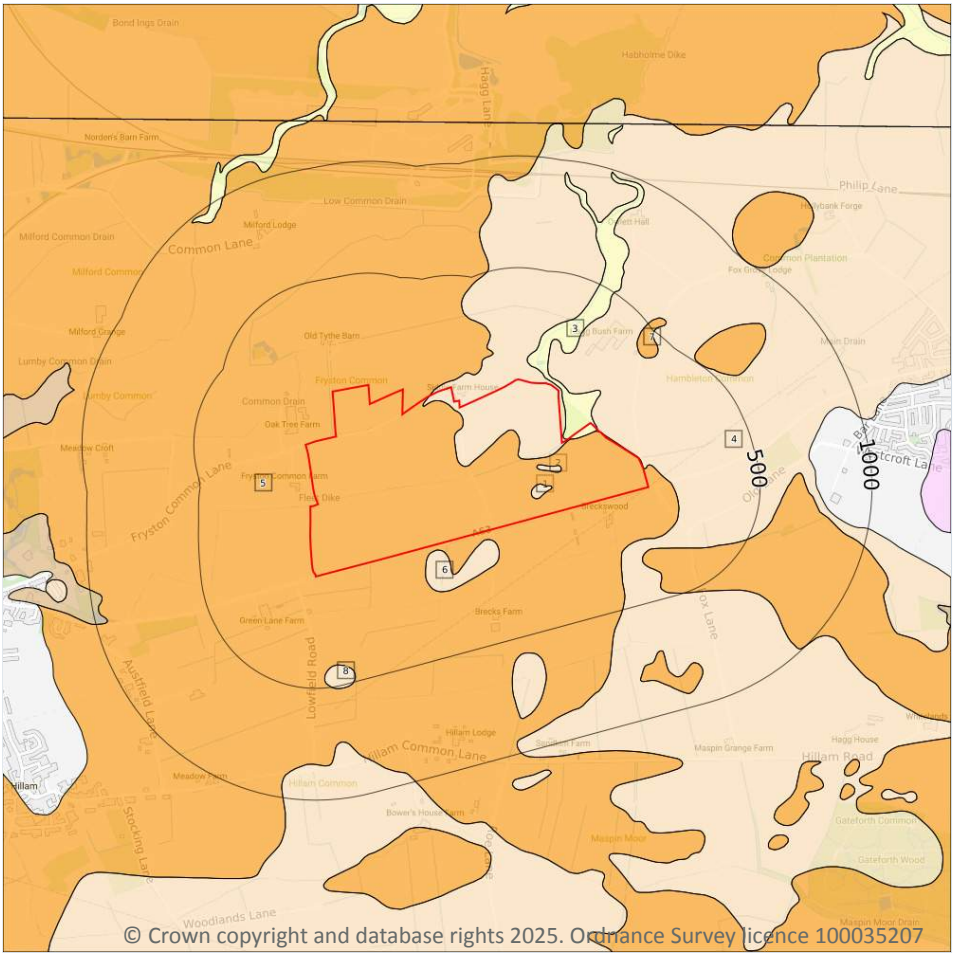
2.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m	8

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 19 >**

ID	Location	LEX Code	Description	Rock description
1	On site	BREI-S	BREIGHTON SAND FORMATION	SAND
2	On site	BREI-S	BREIGHTON SAND FORMATION	SAND
3	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	On site	BREI-S	BREIGHTON SAND FORMATION	SAND

ID	Location	LEX Code	Description	Rock description
5	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
6	25m S	BREI-S	BREIGHTON SAND FORMATION	SAND
7	378m NE	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
8	407m SW	BREI-S	BREIGHTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

2.5 Superficial permeability (50k)

Records within 50m **7**

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**	**Very Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
25m S	Intergranular	High	High

This data is sourced from the British Geological Survey.

2.6 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.

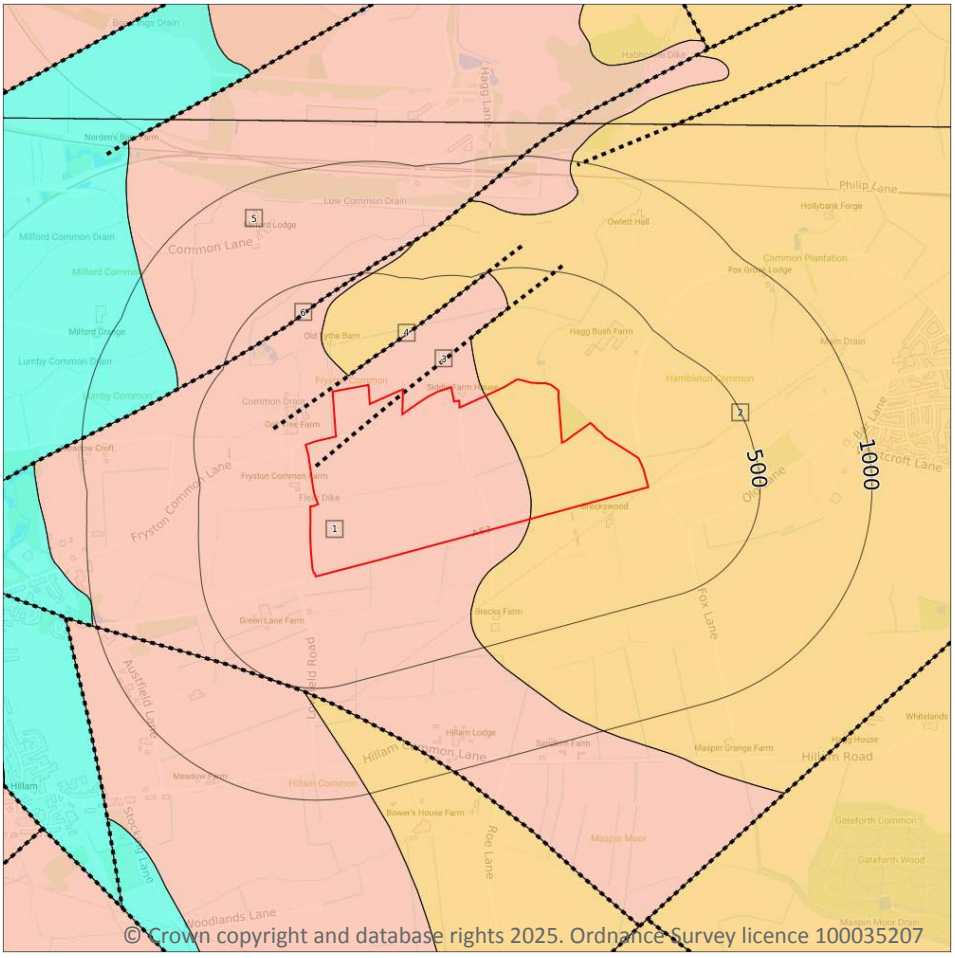
2.7 Landslip permeability (50k)

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



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

2.8 Bedrock geology (50k)

Records within 500m **3**

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 22 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**ROX-CAMDST**	**ROXBY FORMATION - MUDSTONE, CALCAREOUS**	**-**
2	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
5	357m NW	ROX-CAMDST	ROXBY FORMATION - MUDSTONE, CALCAREOUS	-

This data is sourced from the British Geological Survey.

2.9 Bedrock permeability (50k)

Records within 50m	**2**

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

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

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m	**3**

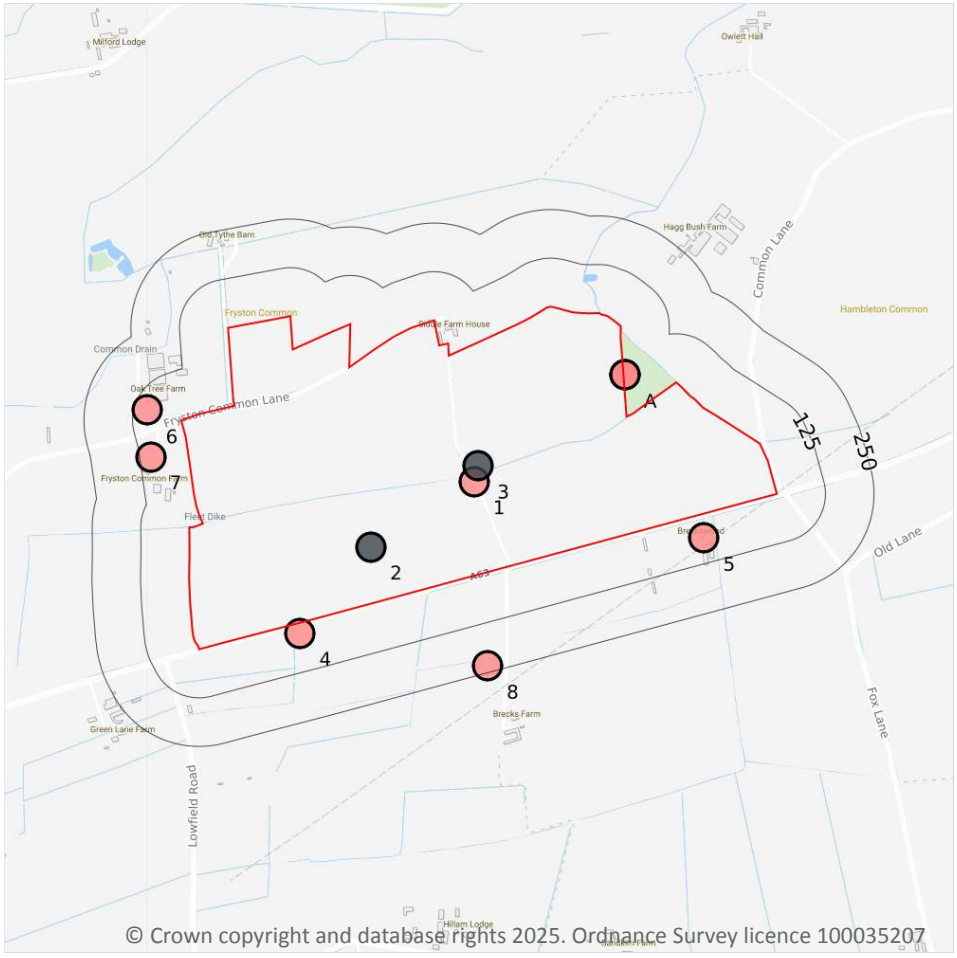
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 22 >**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Fault, inferred**
4	16m NW	FAULT	Fault, inferred
6	357m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

3 Boreholes



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Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

3.1 BGS Boreholes

Records within 250m	10

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.

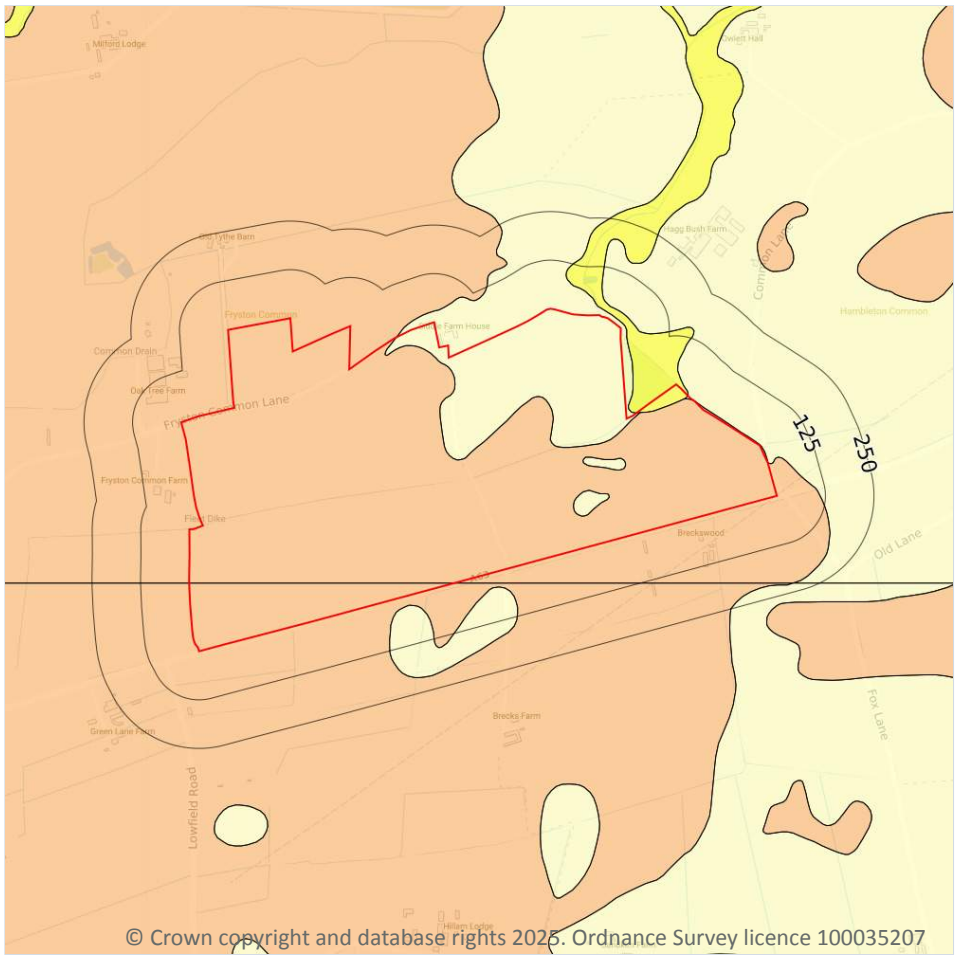
Features are displayed on the Boreholes map on **page 24 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	452832 430256	SIDDEL HOUSE FARM SURFACE	412.09	N	118326 ↗
2	On site	452567 430088	MONK FRYSTON AREA M/J5	-	Y	N/A
3	On site	452843 430298	MONK FRYSTON AREA M/J7	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	4m NE	453220 430530	COMMON LANE, MONK FRYSTON	41.42	N	13953037 ↗
A	4m NE	453220 430530	COMMON HOUSE MONK FRYSTON	68.0	N	20782817 ↗
4	26m SW	452385 429866	HILLAM AND MONK FRYSTON AH/E11	41.14	N	116938 ↗
5	60m E	453424 430112	BRECKSWOOD	36.59	N	118462 ↗
6	92m W	451990 430440	OAK TREE FARM, MONK FRYSTON	50.0	N	15941264 ↗
7	97m W	452000 430320	FRYSTON COMMON FARM HANMBLETON	43.0	N	118466 ↗
8	232m S	452867 429783	HILLAM AND MONK FRYSTON AH/F12	46.93	N	116936 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



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4.1 Shrink swell clays

Records within 50m	4

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 26 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

Location	Hazard rating	Details
25m S	Negligible	Ground conditions predominantly non-plastic.

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

4.2 Running sands

Records within 50m	3

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

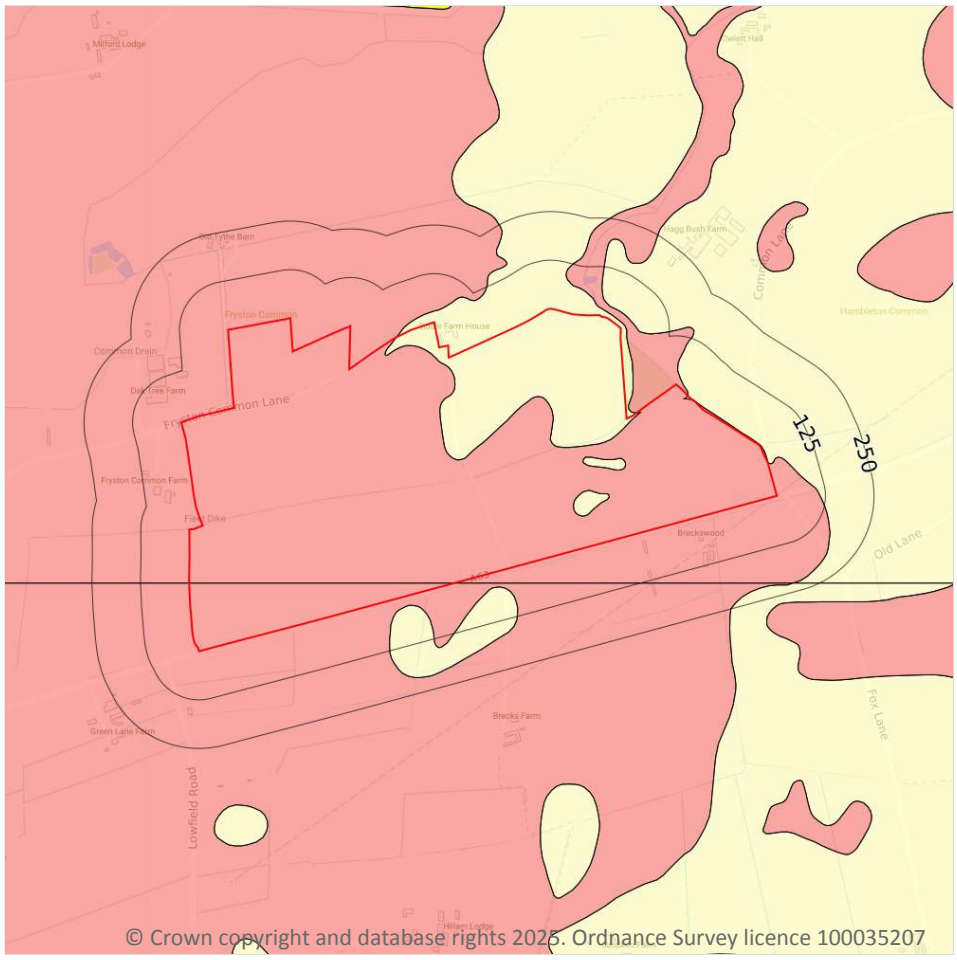
Features are displayed on the Natural ground subsidence - Running sands map on **page 28 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
25m S	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

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

4.3 Compressible deposits

Records within 50m	3

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.

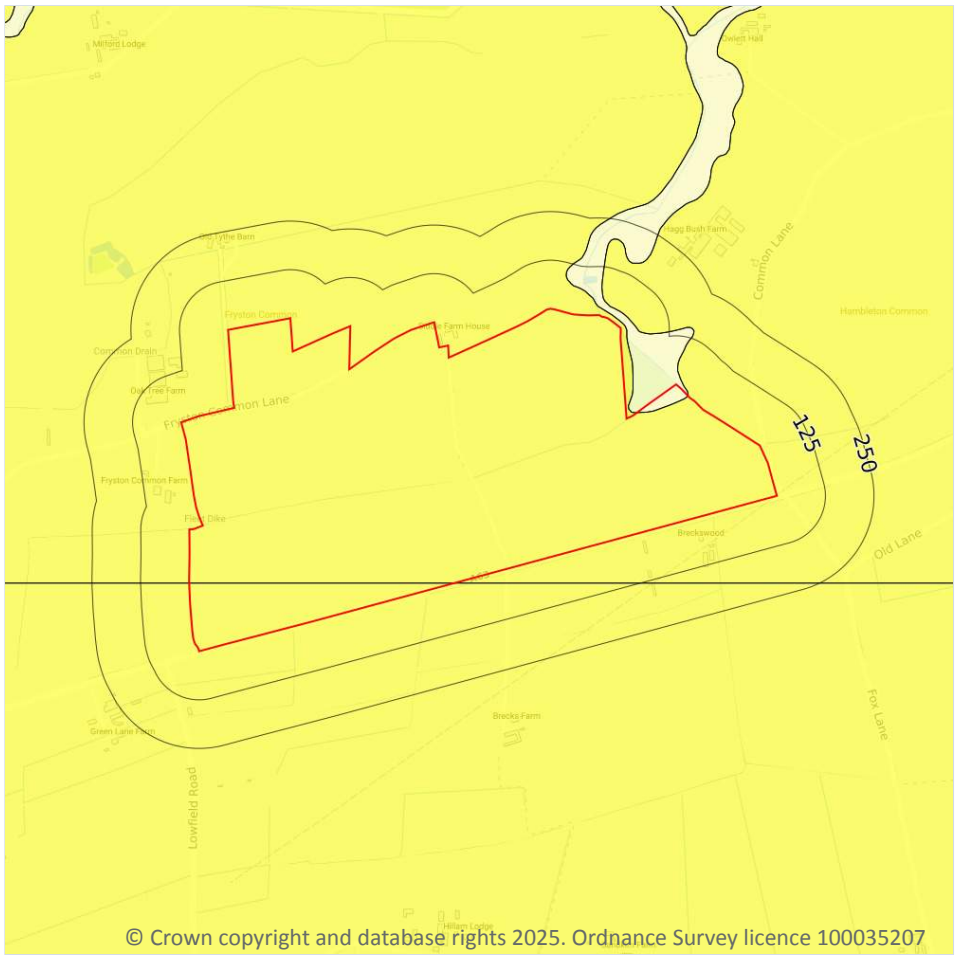
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 30 >**

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

Location	Hazard rating	Details
25m S	Negligible	Compressible strata are not thought to occur.

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

4.4 Collapsible deposits

Records within 50m	2

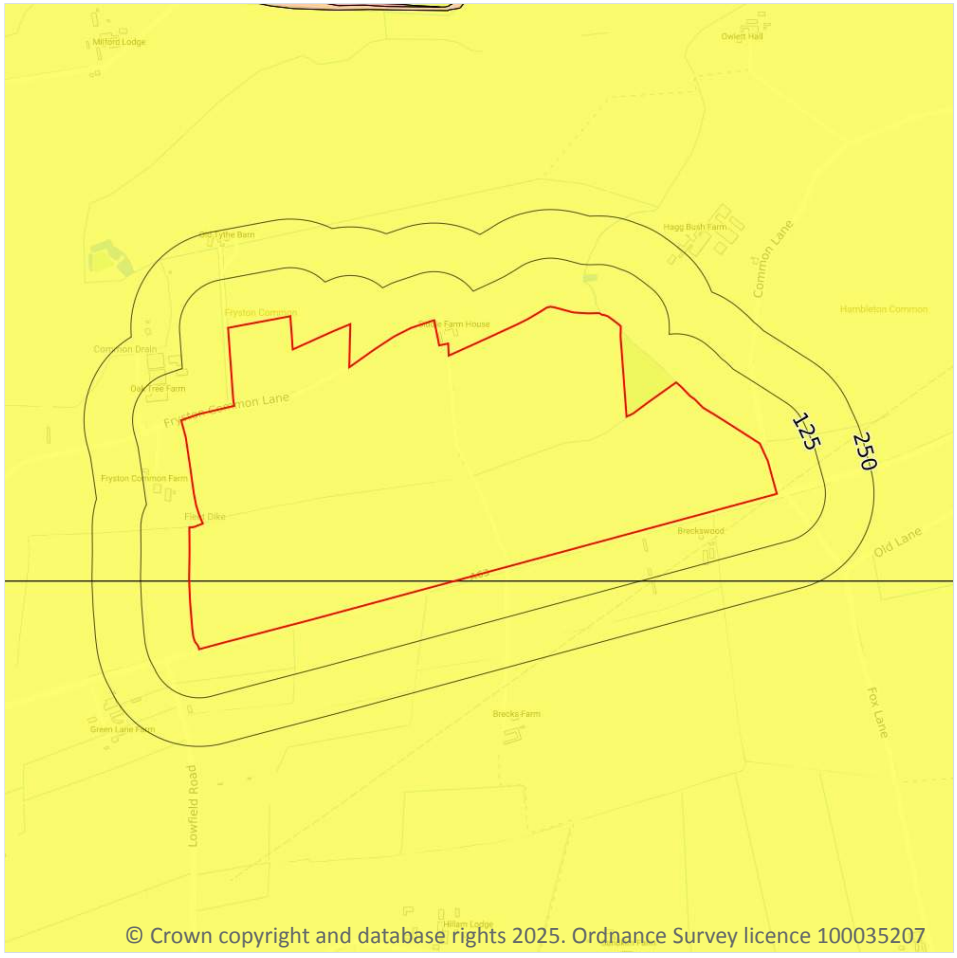
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 32 >**

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

4.5 Landslides

Records within 50m	1

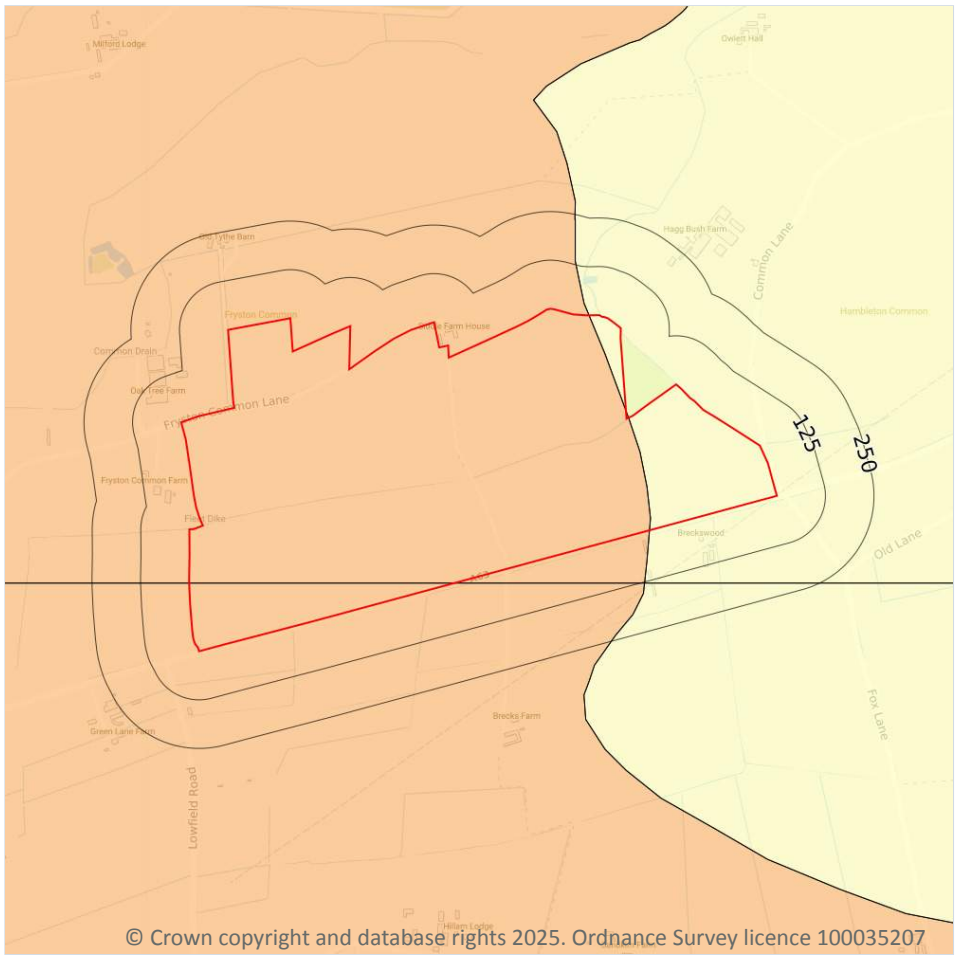
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 33 >**

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



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4.6 Ground dissolution of soluble rocks

Records within 50m	2

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.

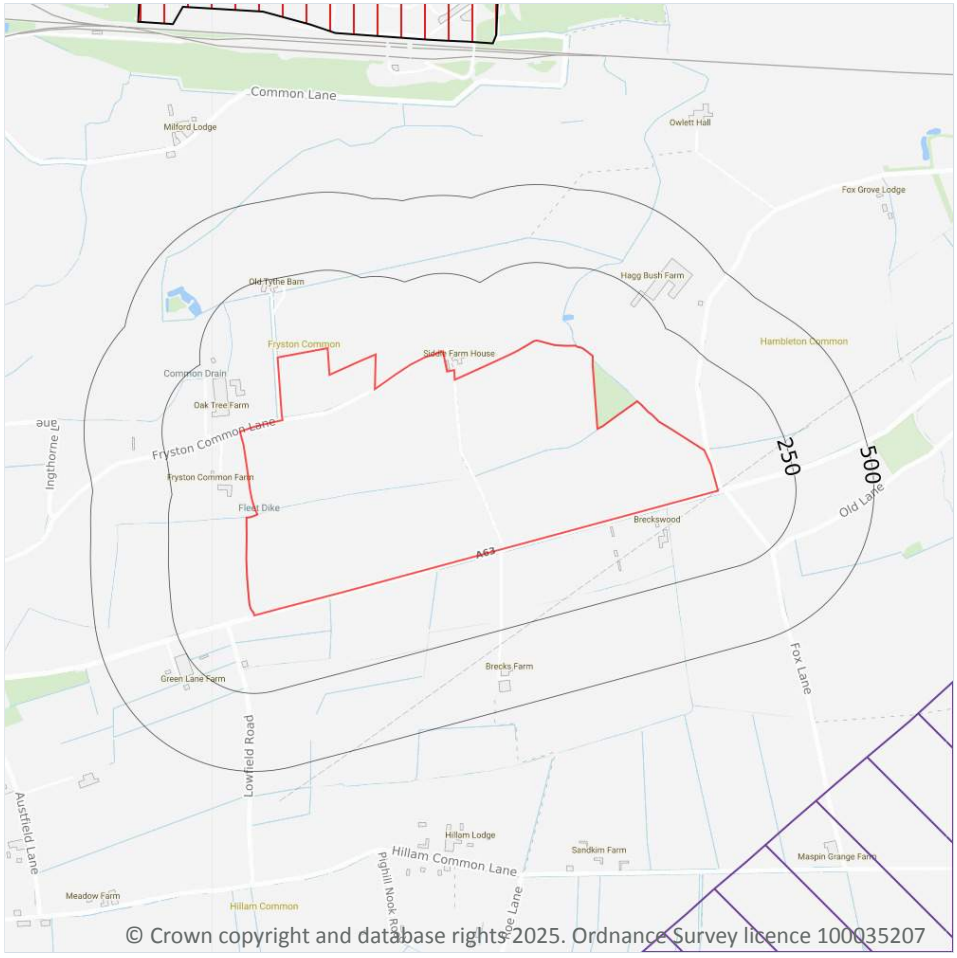
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 34 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**

This data is sourced from the British Geological Survey.

5 Mining and ground workings



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5.1 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

5.2 Surface ground workings

Records within 250m	0

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.

This is data is sourced from Ordnance Survey/Groundsure.

5.3 Underground workings

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on **page 36 >**

ID	Location	Land Use	Year of mapping	Mapping scale
2	963m N	Unspecified Mine	1994	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

5.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

5.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

5.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

5.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

5.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

5.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

5.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.12 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

5.13 Brine areas

Records on site	0

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

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

5.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

5.16 Clay mining

Records on site	0

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

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

6 Ground cavities and sinkholes

6.1 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.

6.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

6.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

6.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

7 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%

7.1 Radon

Records on site	1

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

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

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

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

8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m **30**

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**
1m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
9m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
25m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

8.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

9 Railway infrastructure and projects

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

9.4 Historical railway and tunnel features

Records within 250m	0

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.

This data is sourced from Ordnance Survey/Groundsure.

9.5 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.

9.6 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.

9.7 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.

9.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

9.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

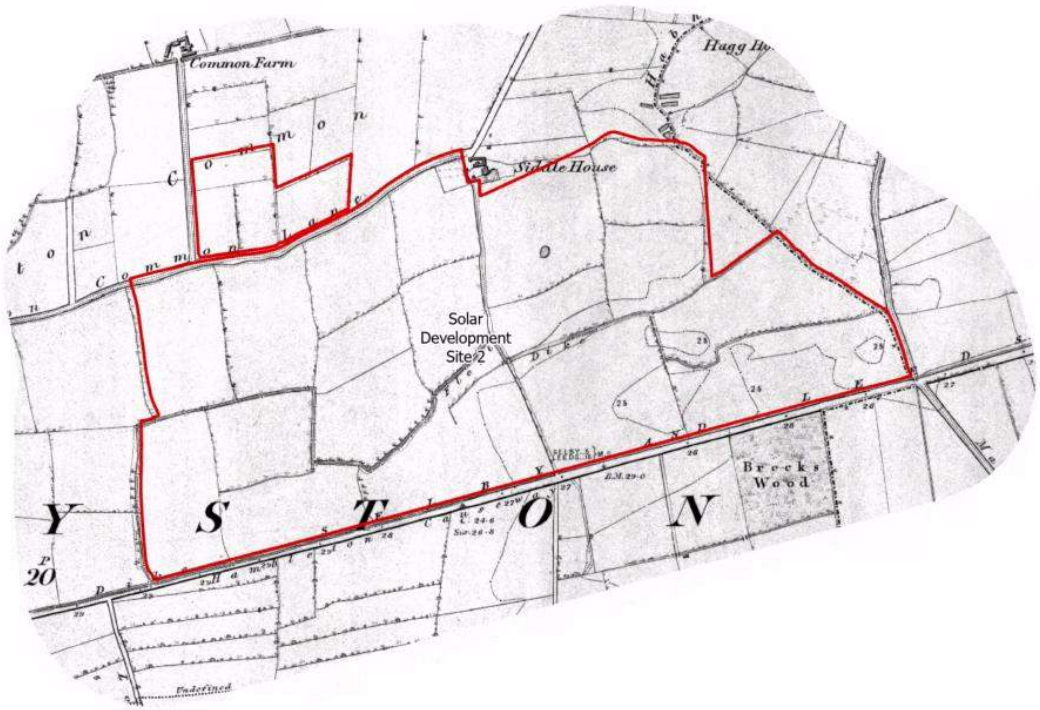
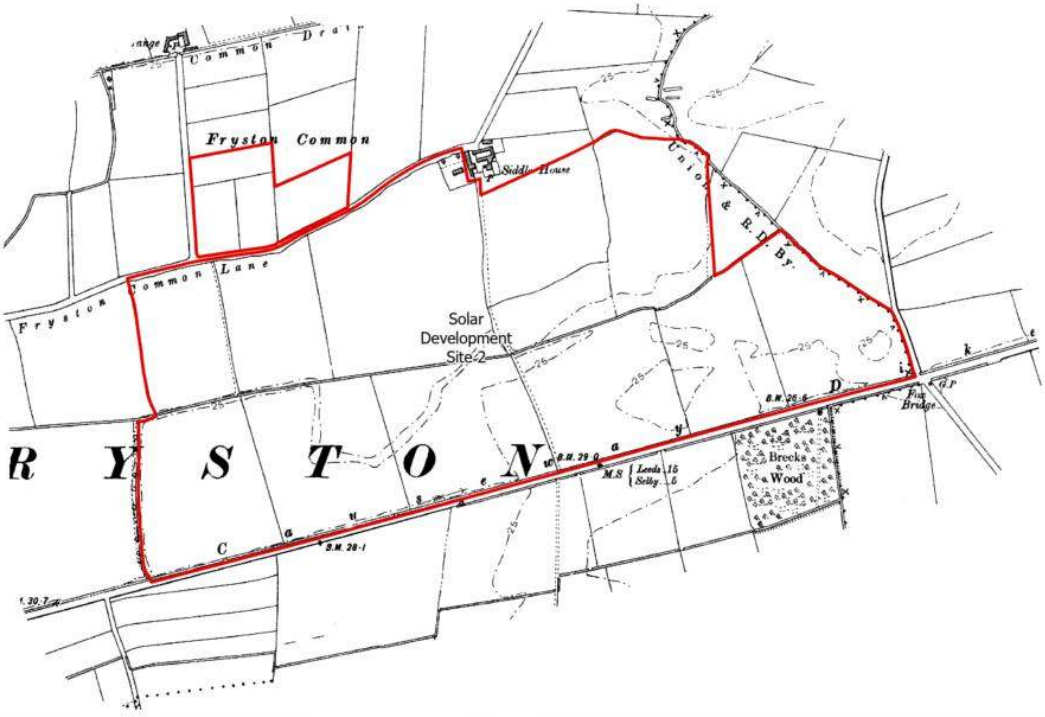
Data providers

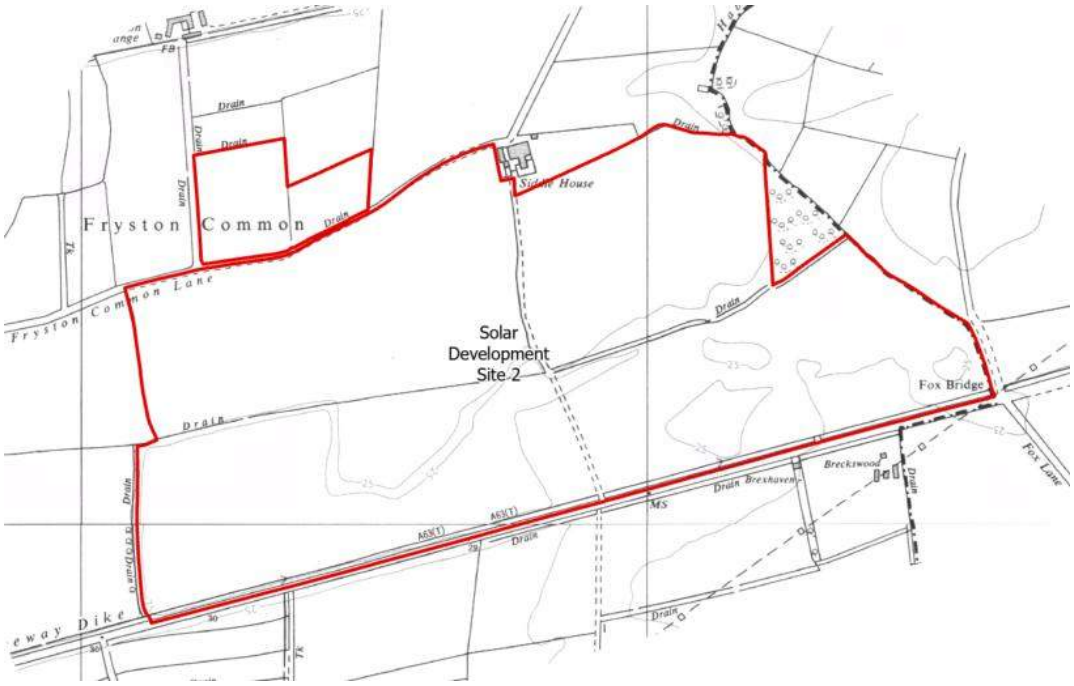
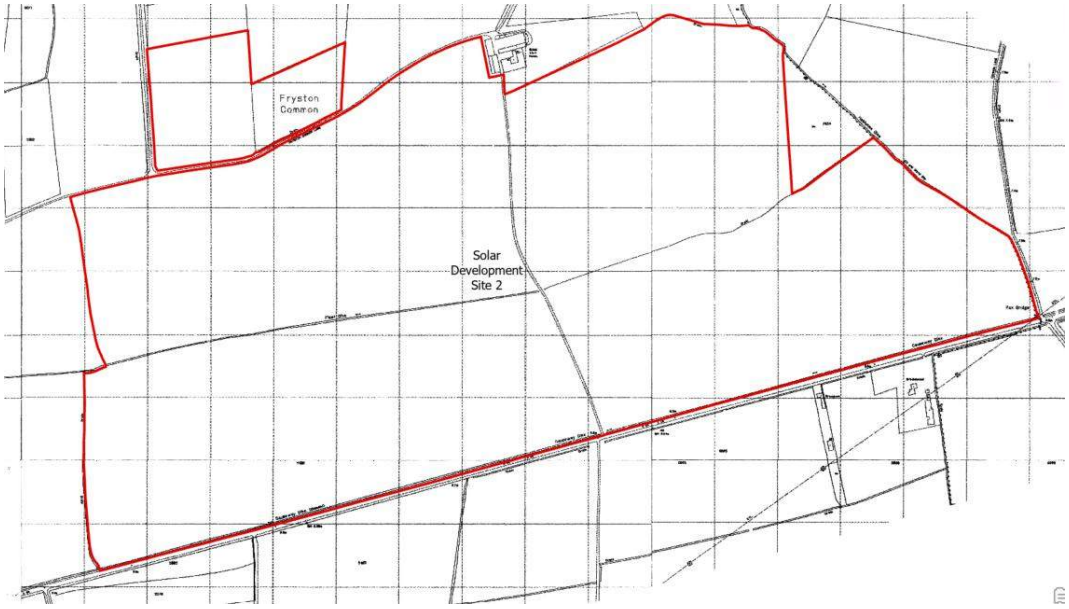
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

B.2. Historical Maps

Map date Scale	Map extract
1850 1:10,560 © Groundsure Ltd	
1908 1:10,560 © Groundsure Ltd	

Map date Scale	Map extract
1967 – 1968 1:10,000 © Groundsure Ltd	
1994 – 1995 1:10,000 © Groundsure Ltd	

Map date Scale	Map extract
2007 © Google Earth	
2025 © Google Earth	

B.3. Consultants Coal Mining Report

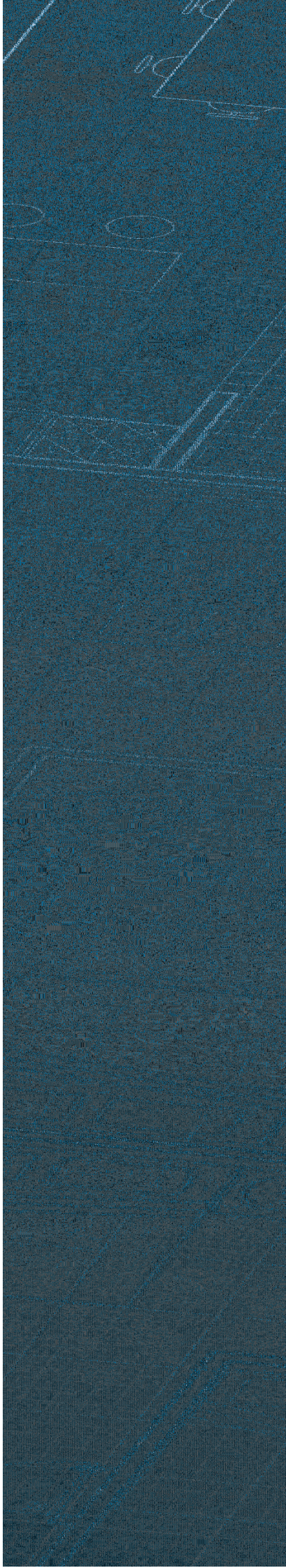
The Coal Authority

Consultants

Coal Mining Report

302939-00 Lvs - Site 2
West Yorkshire

Date of enquiry:	**8 January 2025**
Date enquiry received:	**8 January 2025**
Issue date:	**8 January 2025**
Our reference:	**51003471867001**
Your reference:	**GS-ROY-GI5-E88-P2J**



Consultants

Coal Mining Report

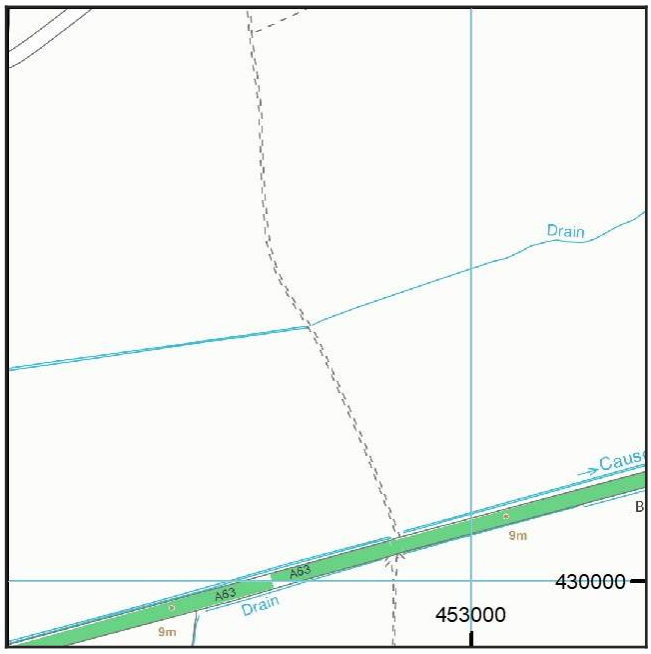
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

302939-00 Lvs - Site 2
West Yorkshire



Approximate position of property

Map data

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
None.

Spine roadways at shallow depth
No spine roadway recorded at shallow depth.

Mine entries
None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers
None available.

Outcrops
No outcrops recorded.

Geological faults, fissures and breaklines
No faults, fissures or breaklines recorded.

Opencast mines
None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips
None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1971, 1976 and 1977.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is in an area where a relevant notice (or notices) dated 1977 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1976 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.

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Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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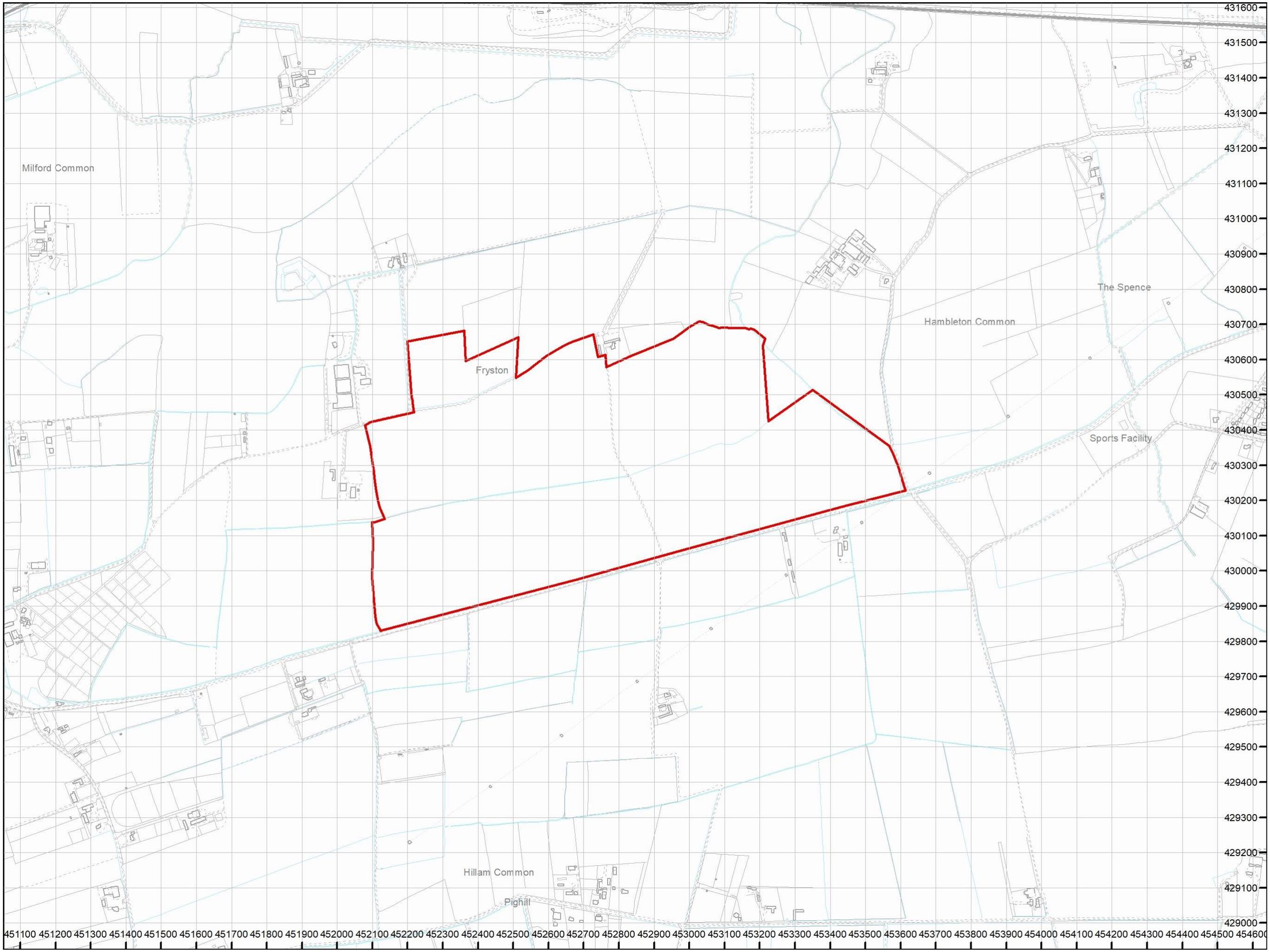
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

B.4. Site Walkover Photos

Photo location IDs

Location ID	Photo
W10	
W9	

Location ID	Photo
S2	
S3	

Annex C Solar Development Site 3 Site Information

C.1. Groundsure Enviro and Geo Insight Reports

Groundsure
LOCATION INTELLIGENCE

Enviro
Insight

302939-00 LVS - Site 3

Order Details

Date: 08/01/2025

Your ref: 302939-00 LVS Site 3

Our Ref: GS-AL3-WHO-BE5-AJJ

Site Details

Location: 452000 428604

Area: 19.87 ha

Authority: The North Yorkshire Council ↗

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Summary of findings p. 2 >

Aerial image p. 6 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	0	0	3	0	-
12 >	1.2 >	Historical tanks >	0	0	4	1	-
12	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
13	1.5	Historical garages	0	0	0	0	-
13	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
14 >	2.1 >	Historical industrial land uses >	0	0	3	0	-
15 >	2.2 >	Historical tanks >	0	0	4	2	-
15	2.3	Historical energy features	0	0	0	0	-
15	2.4	Historical petrol stations	0	0	0	0	-
16	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
17	3.1	Active or recent landfill	0	0	0	0	-
17	3.2	Historical landfill (BGS records)	0	0	0	0	-
18	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
18	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
18	3.5	Historical waste sites	0	0	0	0	-
18	3.6	Licensed waste sites	0	0	0	0	-
18 >	3.7 >	Waste exemptions >	4	0	7	6	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
20 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
21	4.2	Current or recent petrol stations	0	0	0	0	-
21	4.3	Electricity cables	0	0	0	0	-
21	4.4	Gas pipelines	0	0	0	0	-
21	4.5	Sites determined as Contaminated Land	0	0	0	0	-

21	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
22	4.7	Regulated explosive sites	0	0	0	0	-
22	4.8	Hazardous substance storage/usage	0	0	0	0	-
22	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
22	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
22	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
23	4.12	Radioactive Substance Authorisations	0	0	0	0	-
23 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	7	1	-
24	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
24	4.15	Pollutant release to public sewer	0	0	0	0	-
25	4.16	List 1 Dangerous Substances	0	0	0	0	-
25	4.17	List 2 Dangerous Substances	0	0	0	0	-
25	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
25	4.19	Pollution inventory substances	0	0	0	0	-
25	4.20	Pollution inventory waste transfers	0	0	0	0	-
26	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Geology (basic) >**					
27 >	**5.1 >**	**Superficial geology (625k) >**	Identified (within 500m)				
27 >	**5.2 >**	**Bedrock geology (625k) >**	Identified (within 500m)				
Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
28 >	**6.1 >**	**Superficial aquifer >**	Identified (within 500m)				
30 >	**6.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
32 >	**6.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
33 >	**6.4 >**	**Groundwater vulnerability- soluble rock risk >**	Identified (within 0m)				
34	6.5	Groundwater vulnerability- local information	None (within 0m)				
35 >	**6.6 >**	**Groundwater abstractions >**	0	0	0	3	13
39 >	**6.7 >**	**Surface water abstractions >**	0	0	0	0	13
42	6.8	Potable abstractions	0	0	0	0	0
43	6.9	Source Protection Zones	0	0	0	0	-

43	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
44 >	**7.1 >**	**Water Network (OS MasterMap) >**	9	11	32	-	-
49 >	**7.2 >**	**Surface water features >**	1	2	16	-	-
49 >	**7.3 >**	**WFD Surface water body catchments >**	1	-	-	-	-
49 >	**7.4 >**	**WFD Surface water bodies >**	1	0	0	-	-
50 >	**7.5 >**	**WFD Groundwater bodies >**	1	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
51 >	**8.1 >**	**Risk of flooding from rivers and the sea >**	Low (within 50m)				
52 >	**8.2 >**	**Historical Flood Events >**	0	0	1	-	-
52	8.3	Flood Defences	0	0	0	-	-
52	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	8.5	Flood Storage Areas	0	0	0	-	-
54 >	**8.6 >**	**Flood Zone 2 >**	Identified (within 50m)				
55	8.7	Flood Zone 3	None (within 50m)				
Page	Section	**Surface water flooding >**					
56 >	**9.1 >**	**Surface water flooding >**	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	**Groundwater flooding >**					
58 >	**10.1 >**	**Groundwater flooding >**	High (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
59	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
60	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
60	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
60	11.4	Special Protection Areas (SPA)	0	0	0	0	0
60	11.5	National Nature Reserves (NNR)	0	0	0	0	0
61	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
61	11.7	Designated Ancient Woodland	0	0	0	0	0
61	11.8	Biosphere Reserves	0	0	0	0	0
61	11.9	Forest Parks	0	0	0	0	0

62	11.10	Marine Conservation Zones	0	0	0	0	0
62 >	11.11 >	Green Belt >	1	0	0	0	0
62	11.12	Proposed Ramsar sites	0	0	0	0	0
62	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
63	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
63	11.15	Nitrate Sensitive Areas	0	0	0	0	0
63 >	11.16 >	Nitrate Vulnerable Zones >	1	0	1	0	3
64 >	11.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
65	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
66	12.1	World Heritage Sites	0	0	0	-	-
66	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	12.3	National Parks	0	0	0	-	-
66	12.4	Listed Buildings	0	0	0	-	-
67	12.5	Conservation Areas	0	0	0	-	-
67	12.6	Scheduled Ancient Monuments	0	0	0	-	-
67	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	13.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
69	13.2	Open Access Land	0	0	0	-	-
69	13.3	Tree Felling Licences	0	0	0	-	-
69 >	13.4 >	Environmental Stewardship Schemes >	1	0	1	-	-
70	13.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
71	14.1	Priority Habitat Inventory	0	0	0	-	-
71	14.2	Habitat Networks	0	0	0	-	-
71	14.3	Open Mosaic Habitat	0	0	0	-	-
71	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 19.87ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 19.87ha

Recent site history - 2012 aerial photograph

Capture Date: 26/03/2012

Site Area: 19.87ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

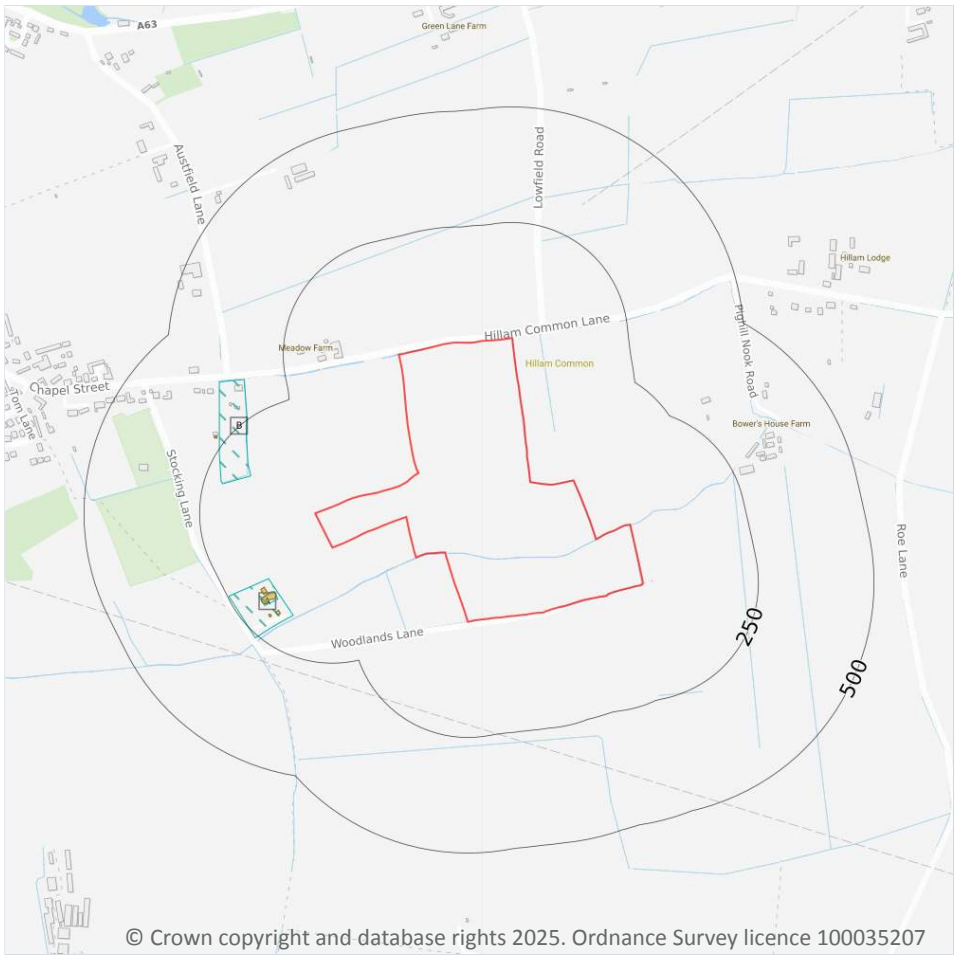
Site Area: 19.87ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 19.87ha

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	3

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 11 >**

ID	Location	Land use	Dates present	Group ID
A	152m SW	Sewage Works	1987	1470643

ID	Location	Land use	Dates present	Group ID
A	157m SW	Unspecified Tanks	1987	1443859
B	161m W	Nursery	1987	1453517

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**5**

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 11 >**

ID	Location	Land use	Dates present	Group ID
A	158m SW	Tanks	1995	235373
A	171m SW	Settling Tanks	1963	244238
A	179m SW	Settling Tanks	1963	244239
A	197m SW	Tanks	1963	235211
B	268m W	Unspecified Tank	1963 - 1995	256051

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.

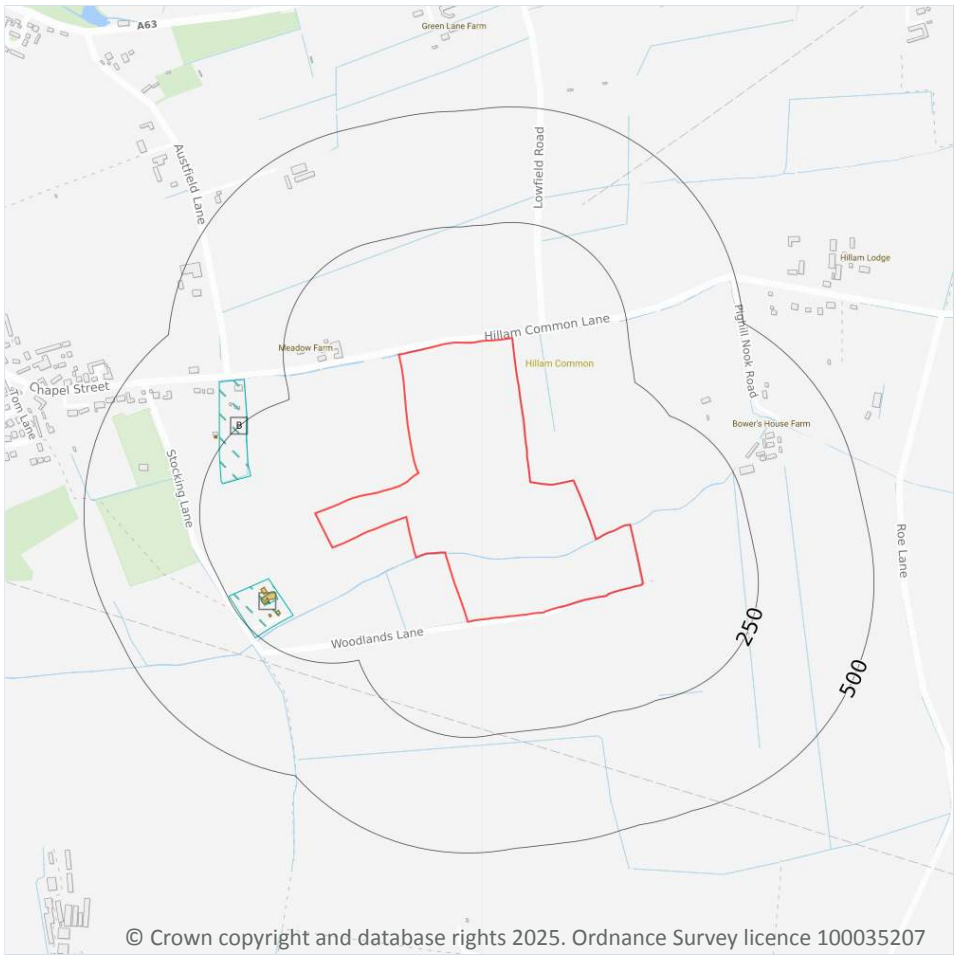
1.6 Historical military land

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	3

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 14 >**

ID	Location	Land Use	Date	Group ID
A	152m SW	Sewage Works	1987	1470643
A	157m SW	Unspecified Tanks	1987	1443859
B	161m W	Nursery	1987	1453517

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	6

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 14 >**

ID	Location	Land Use	Date	Group ID
A	158m SW	Tanks	1995	235373
A	171m SW	Settling Tanks	1963	244238
A	179m SW	Settling Tanks	1963	244239
A	197m SW	Tanks	1963	235211
B	268m W	Unspecified Tank	1963	256051
B	269m W	Unspecified Tank	1995	256051

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.

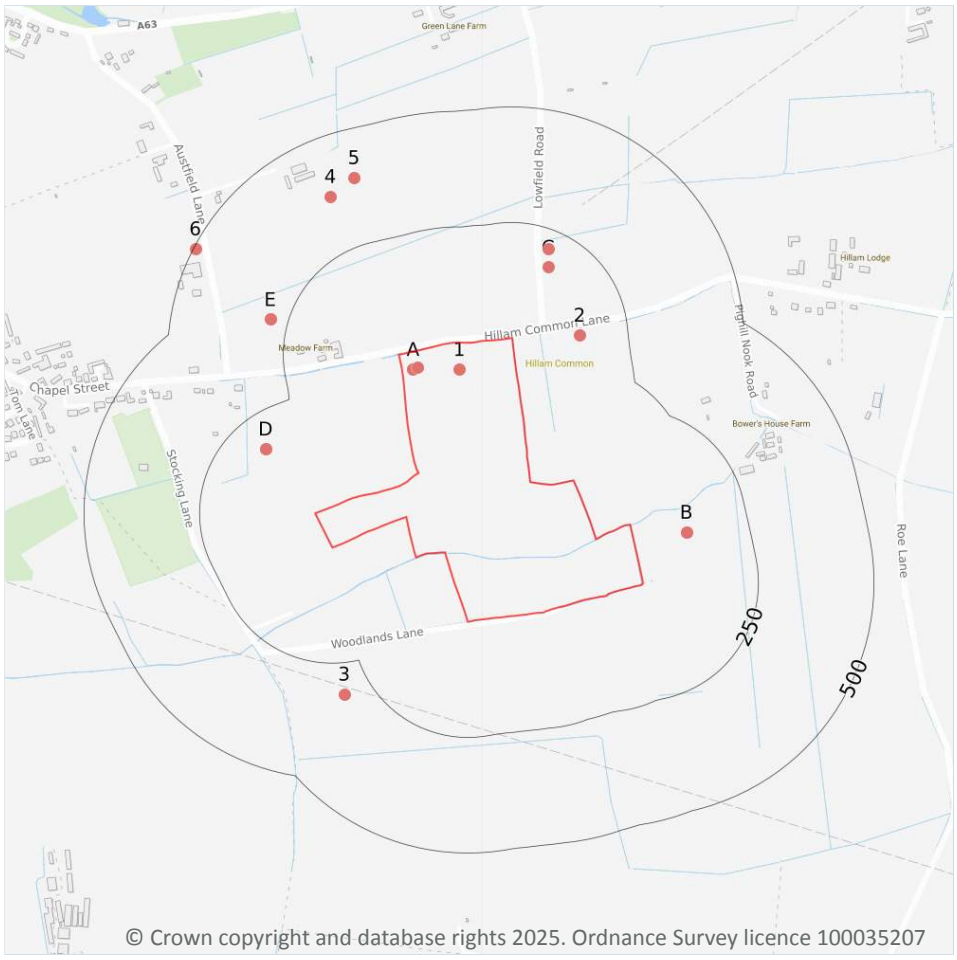
2.5 Historical garages

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)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	17

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

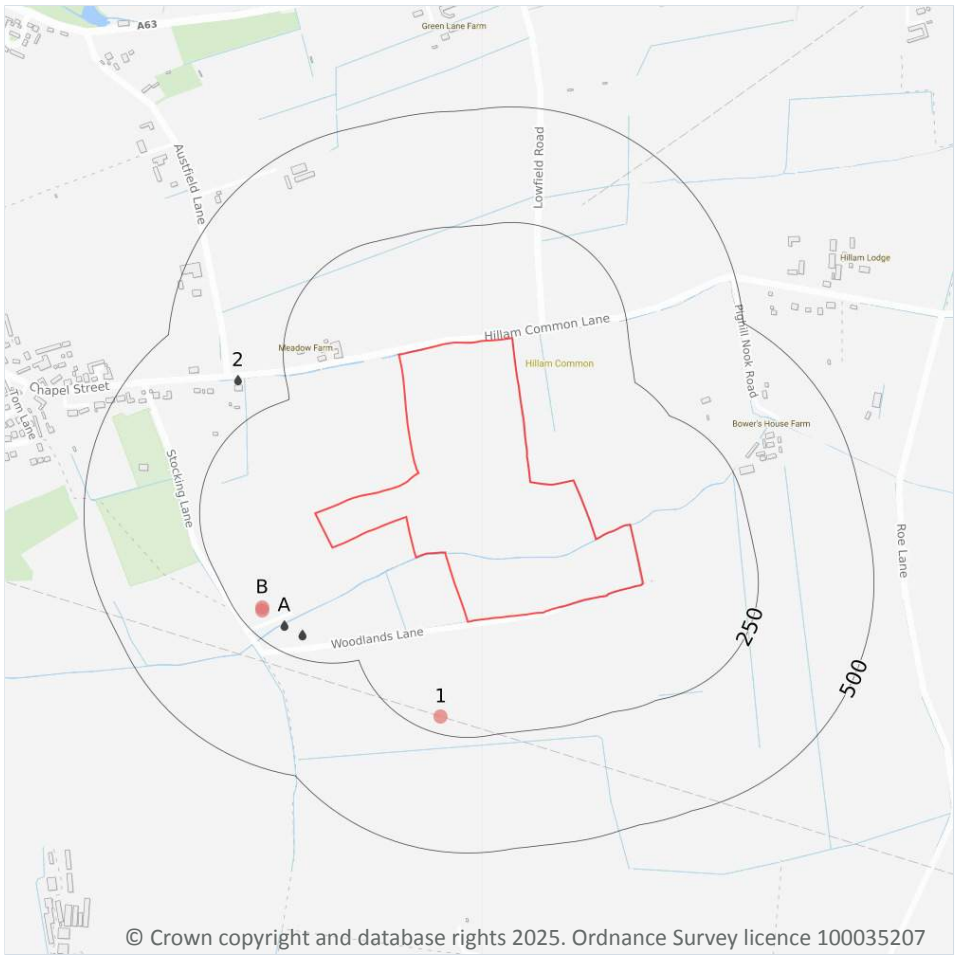
Features are displayed on the Waste and landfill map on **page 17 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**-**	**WEX246077**	**Storing waste exemption**	**On a farm**	**Storage of sludge**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**-**	**WEX341470**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**Hartleys, Thorganby, York, Yo19 6dj**	**WEX179679**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**Roth Hill Lane, Thorganby, York, Yo19 6dj**	**WEX148070**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	114m E	-	WEX395253	Storing waste exemption	On a farm	Storage of sludge
B	114m E	-	WEX257426	Storing waste exemption	On a farm	Storage of sludge
2	145m NE	Manor Farm, Manor Road, Beal, Goole, Dn14 0st	WEX158312	Storing waste exemption	On a farm	Storage of sludge
C	170m N	-	WEX293967	Storing waste exemption	On a farm	Storage of sludge
D	175m W	-	WEX395251	Storing waste exemption	On a farm	Storage of sludge
D	175m W	-	WEX257425	Storing waste exemption	On a farm	Storage of sludge
C	207m N	-	WEX389152	Storing waste exemption	On a farm	Storage of sludge
E	288m NW	-	WEX359549	Storing waste exemption	On a farm	Storage of sludge
E	288m NW	-	WEX220131	Storing waste exemption	On a farm	Storage of sludge
3	311m SW	-	WEX294529	Storing waste exemption	On a farm	Storage of sludge
4	372m NW	Smeathalls Farm, Birkin Lane, Birkin, Knottingley, Wf11 9lz	WEX081584	Storing waste exemption	On a farm	Storage of sludge
5	394m NW	Smeathalls Farm, Birkin Lane, Birkin, Knottingley, Wf11 9lz	WEX001696	Storing waste exemption	On a farm	Storage of sludge
6	496m NW	-	WEX081565	Storing waste exemption	On a farm	Storage of sludge

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

Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 20 >**

ID	Location	Company	Address	Activity	Category
B	200m SW	Sewage Works	North Yorkshire, LS25	Waste Storage, Processing and Disposal	Infrastructure and Facilities
B	204m SW	Works	North Yorkshire, LS25	Unspecified Works Or Factories	Industrial Features
1	213m S	Pylon	North Yorkshire, LS25	Electrical Features	Infrastructure and Facilities

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	0

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.

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	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	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	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	8

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 20 >**

ID	Location	Address	Details	
A	198m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1654 Permit Version: 5 Receiving Water: MASPIN MOOR DRAIN	Status: SURRENDERED UNDER EPR 2010 Issue date: 24/09/2009 Effective Date: 01/01/2010 Revocation Date: 24/07/2019
A	198m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 1654 Permit Version: 5 Receiving Water: MASPIN MOOR DRAIN	Status: SURRENDERED UNDER EPR 2010 Issue date: 24/09/2009 Effective Date: 01/01/2010 Revocation Date: 24/07/2019
A	199m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1654 Permit Version: 4 Receiving Water: MASPIN MOOR DRAIN	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 31/03/2005 Revocation Date: 31/12/2009
A	199m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1654 Permit Version: 2 Receiving Water: MASPIN MOOR DRAIN	Status: TRANSFERRED FROM COPA 1974 Issue date: 10/01/1986 Effective Date: 10/01/1986 Revocation Date: 30/03/2005

ID	Location	Address	Details	
A	199m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1654 Permit Version: 3 Receiving Water: MASPIN MOOR DRAIN	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 30/11/1963 Effective Date: 30/11/1963 Revocation Date: 04/02/1981
A	199m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1654 Permit Version: 1 Receiving Water: MASPIN MOOR DRAIN	Status: TRANSFERRED FROM 1978 ORDER Issue date: 05/02/1981 Effective Date: 05/02/1981 Revocation Date: 09/01/1986
A	199m SW	HILLAMSTW,WOODLANDSLANE,HILLAM,LEEDS,WESTYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 1654 Permit Version: 4 Receiving Water: MASPIN MOOR DRAIN	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 31/03/2005 Revocation Date: 31/12/2009
2	333m NW	HILLAMNURSERY,HILLAMCOMMONLANE,HILLAM,NORTHYORKSHIRE,LS255HR	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: WRA8274 Permit Version: 1 Receiving Water: MASPIN MOOR DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 30/01/2004 Effective Date: 30/01/2004 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m	**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	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	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**LDE-CLAY**	**LACUSTRINE DEPOSITS (UNDIFFERENTIATED)**	**CLAY**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

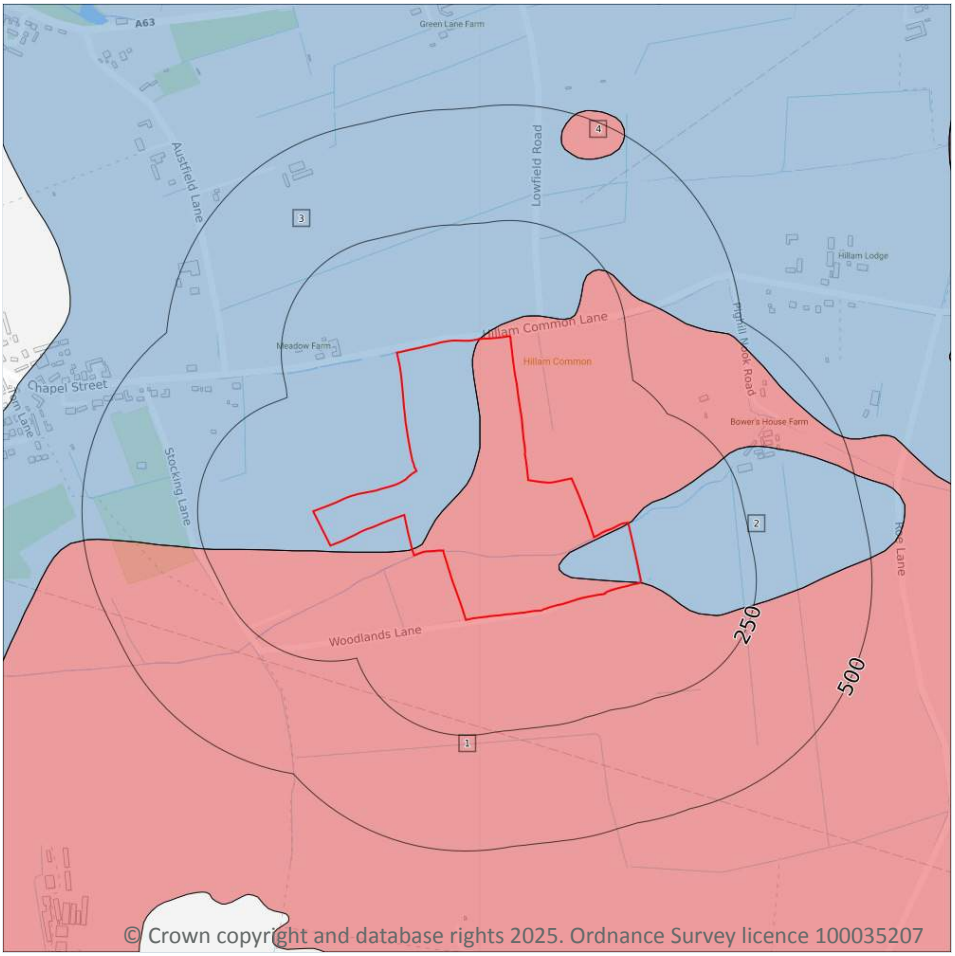
Records within 500m	3

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**PUND-MDSS**	**PERMIAN ROCKS (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE AND SANDSTONE**
240m E	TRIA-SCON	TRIASSIC ROCKS (UNDIFFERENTIATED)	SANDSTONE AND CONGLOMERATE, INTERBEDDED
364m W	ZG-DLDO	ZECHSTEIN GROUP	DOLOMITISED LIMESTONE AND DOLOMITE

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

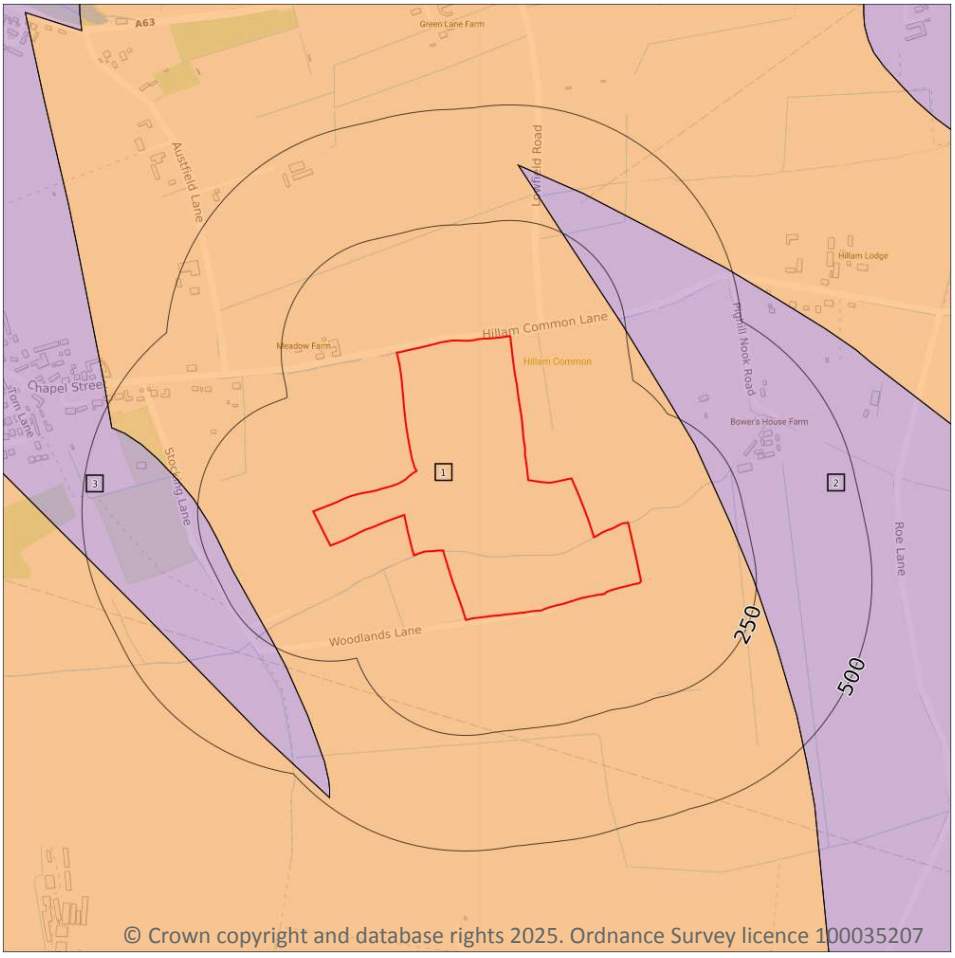
Features are displayed on the Hydrogeology map on **page 28 >**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
4	413m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

6.2 Bedrock aquifer

Records within 500m	3

Aquifer status of groundwater held within bedrock geology.

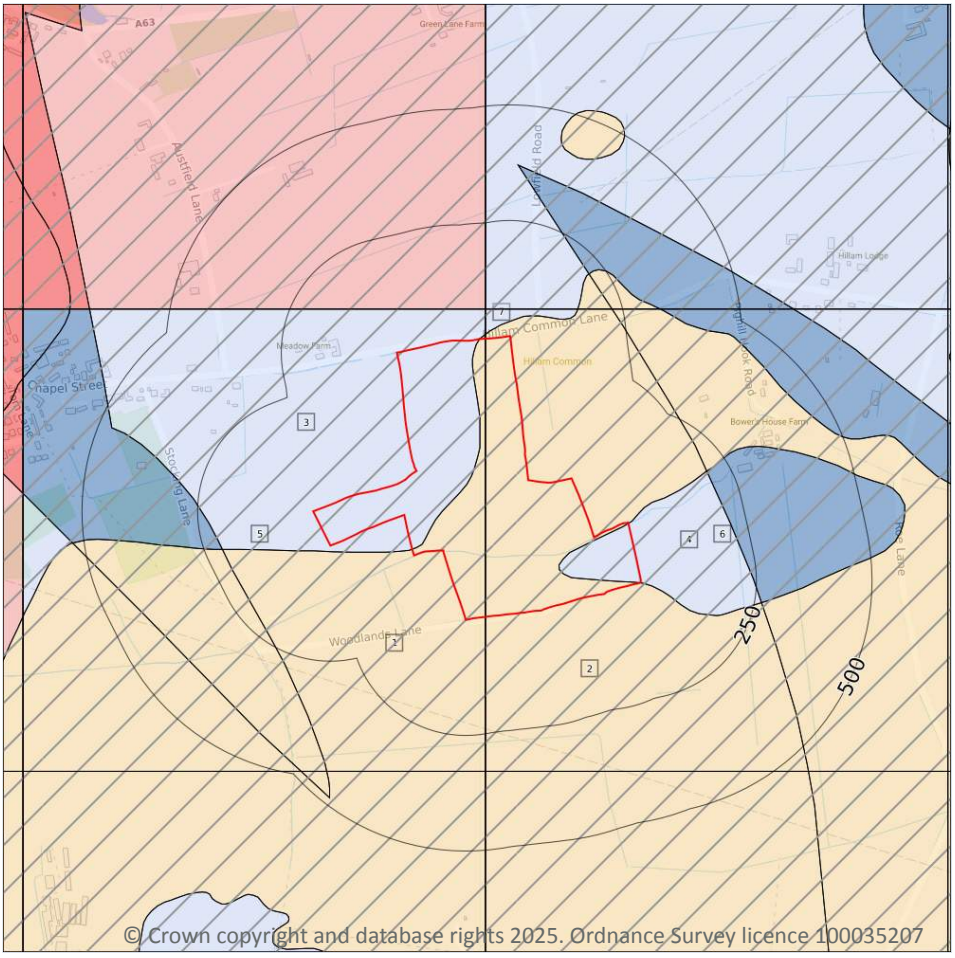
Features are displayed on the Bedrock aquifer map on **page 30 >**

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 permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers**
2	201m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	211m SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	5

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 32 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
2	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
3	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
4	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
7	9m N	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	**2**

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
5	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
6	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**

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

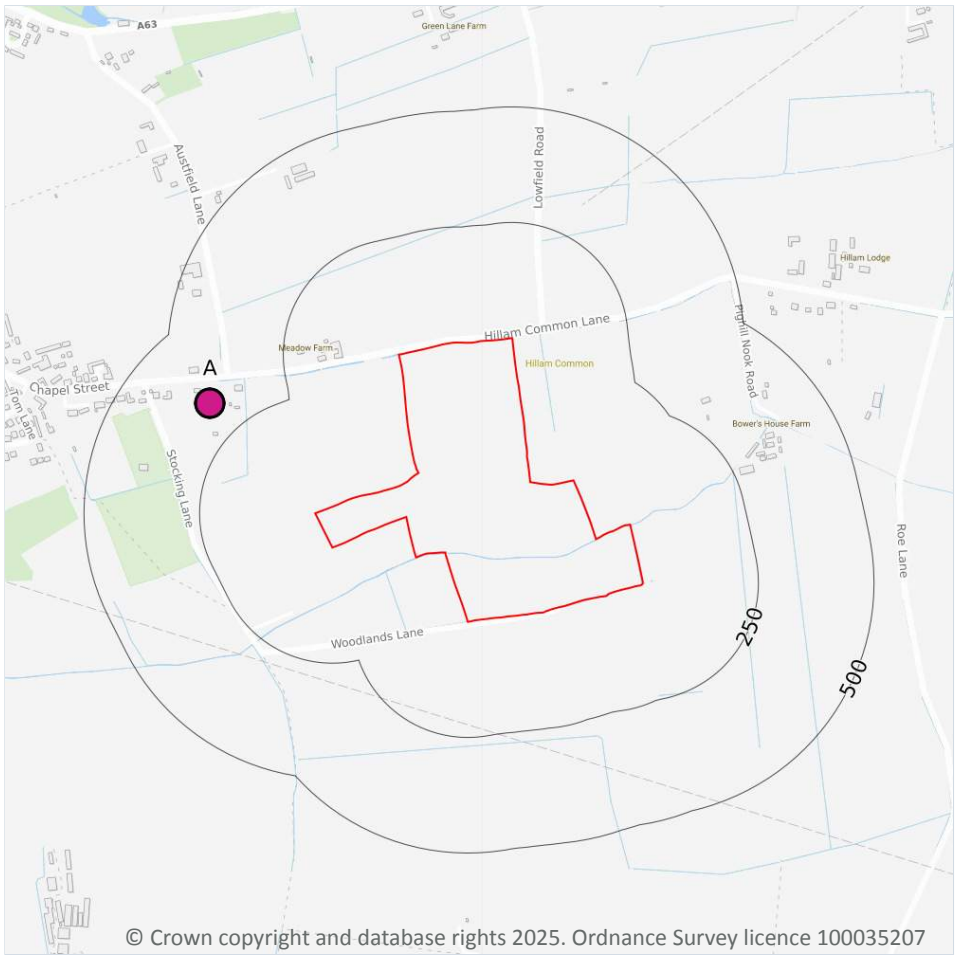
6.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	16

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 35 >**

ID	Location	Details	
A	329m W	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: -- BOREHOLE Data Type: Point Name: HILLAM GARDENS LIMITED Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
A	329m W	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
A	329m W	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 81.828 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
-	1380m N	Status: Active Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - MONK FRYSTON Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): 9953 Max Daily Volume (m^3): 27.27 Original Application No: 7111 Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1380m N	Status: Historical Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1996 Version End Date: -

ID	Location	Details	
-	1470m SE	Status: Historical Licence No: 2/27/18/030 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: J E HARTLEY LTD C/O WILLIAM THOMAS HARTLEY Easting: 453300 Northing: 427300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1966 Version End Date: -
-	1470m SE	Status: Historical Licence No: 2/27/18/030 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - BIRKIN KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453300 Northing: 427300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1966 Version End Date: -
-	1946m SE	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: J E HARTLEY LTD C/O WILLIAM THOMAS HARTLEY Easting: 453860 Northing: 427200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -
-	1946m SE	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -

ID	Location	Details	
-	1946m SE	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -
-	1946m SE	Status: Historical Licence No: 2/27/18/151 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 21/01/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
-	1956m SE	Status: Active Licence No: 2/27/18/151/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: Hartleys Farming Ltd Easting: 453864 Northing: 427189	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: NPS/WR/029545 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
-	1956m SE	Status: Historical Licence No: 2/27/18/151 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453864 Northing: 427189	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 21/01/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -

ID	Location	Details	
-	1971m NE	Status: Active Licence No: 2/27/24/446/R01 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
-	1971m NE	Status: Active Licence No: 2/27/24/446/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
-	1971m NE	Status: Historical Licence No: 2/27/24/446 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: J E HARTLEY LTD Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: - Original Start Date: 01/06/2005 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 30/06/2011 Version End Date: -

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

6.7 Surface water abstractions

Records within 2000m	**13**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 35 >**

ID	Location	Details	
-	1210m N	Status: Active Licence No: 2/27/24/469/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: Hartleys Farming Ltd Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: NPS/WR/029547 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
-	1210m N	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: J E HARTLEY LTD Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
-	1213m N	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1213m N	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1213m N	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - SHERBURN IN ELMET Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -

ID	Location	Details	
-	1258m S	Status: Active Licence No: 2/27/18/140/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: D A PLATT Easting: 452120 Northing: 427080	Annual Volume (m^3): 20625 Max Daily Volume (m^3): 760 Original Application No: NPS/WR/017442 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1258m S	Status: Historical Licence No: 2/27/18/140 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: D A PLATT Easting: 452120 Northing: 427080	Annual Volume (m^3): 20625 Max Daily Volume (m^3): 760 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1276m S	Status: Active Licence No: 2/27/18/136/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449657 Northing: 427378	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: NPS/WR/017034 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1276m S	Status: Historical Licence No: 2/27/18/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449657 Northing: 427378	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1292m S	Status: Historical Licence No: 2/27/18/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449660 Northing: 427380	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -

ID	Location	Details	
-	1335m S	Status: Historical Licence No: 2/27/18/116 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 452100 Northing: 427000	Annual Volume (m^3): 3000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 04/09/2002 Expiry Date: 31/10/2006 Issue No: 1 Version Start Date: 04/09/2002 Version End Date: -
-	1490m SW	Status: Historical Licence No: 2/27/18/109 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449700 Northing: 427700	Annual Volume (m^3): 41120 Max Daily Volume (m^3): 1028 Original Application No: - Original Start Date: 20/10/1999 Expiry Date: 31/10/2006 Issue No: 1 Version Start Date: 20/10/1999 Version End Date: -
-	1780m E	Status: Active Licence No: NE/027/0018/008 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: MASPIN MOOR DRAIN Data Type: Line Name: H HEY & SONS Easting: 454114 Northing: 428504	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 800 Original Application No: NPS/WR/005993 Original Start Date: 05/04/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 05/04/2011 Version End Date: -

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

6.8 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.

6.9 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.

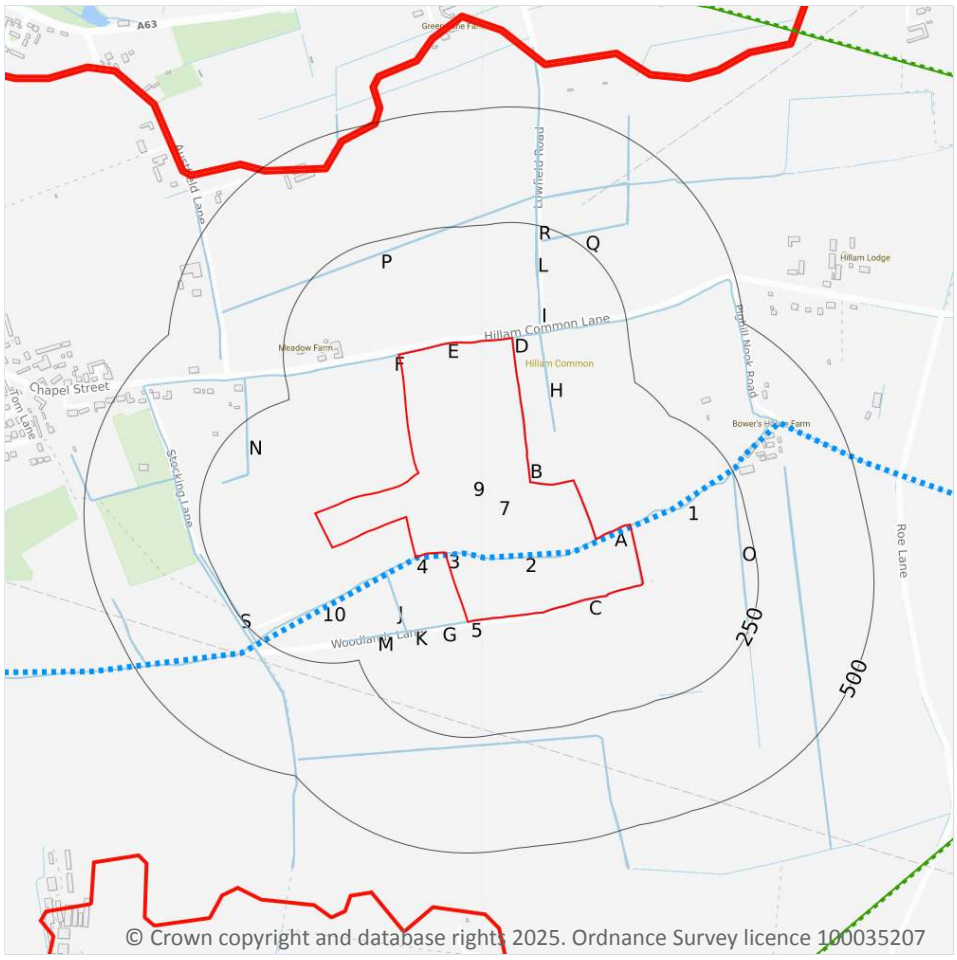
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	52

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

Features are displayed on the Hydrology map on **page 44 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
3	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
4	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
5	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	1m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	1m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
F	2m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	2m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	7m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	37m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	42m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	60m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	61m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	67m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	72m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	73m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	73m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	77m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	84m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	89m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	116m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	117m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	120m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	122m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	129m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	133m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	133m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	134m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	168m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	169m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	173m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	208m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	217m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	218m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	220m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	220m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	228m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	234m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	242m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	246m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	248m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	248m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	249m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	19

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 44 >**

This data is sourced from the Ordnance Survey.

7.3 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 44 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
7	**On site**	**River**	**The Fleet from Source to River Aire**	**GB104027062740**	**Aire Lower**	**Aire and Calder**

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

7.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	**On site**	**River**	**The Fleet from Source to River Aire**	**GB104027062740** ↗	**Moderate**	**Fail**	**Moderate**	**2019**

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

7.5 WFD Groundwater bodies

Records on site	**1**

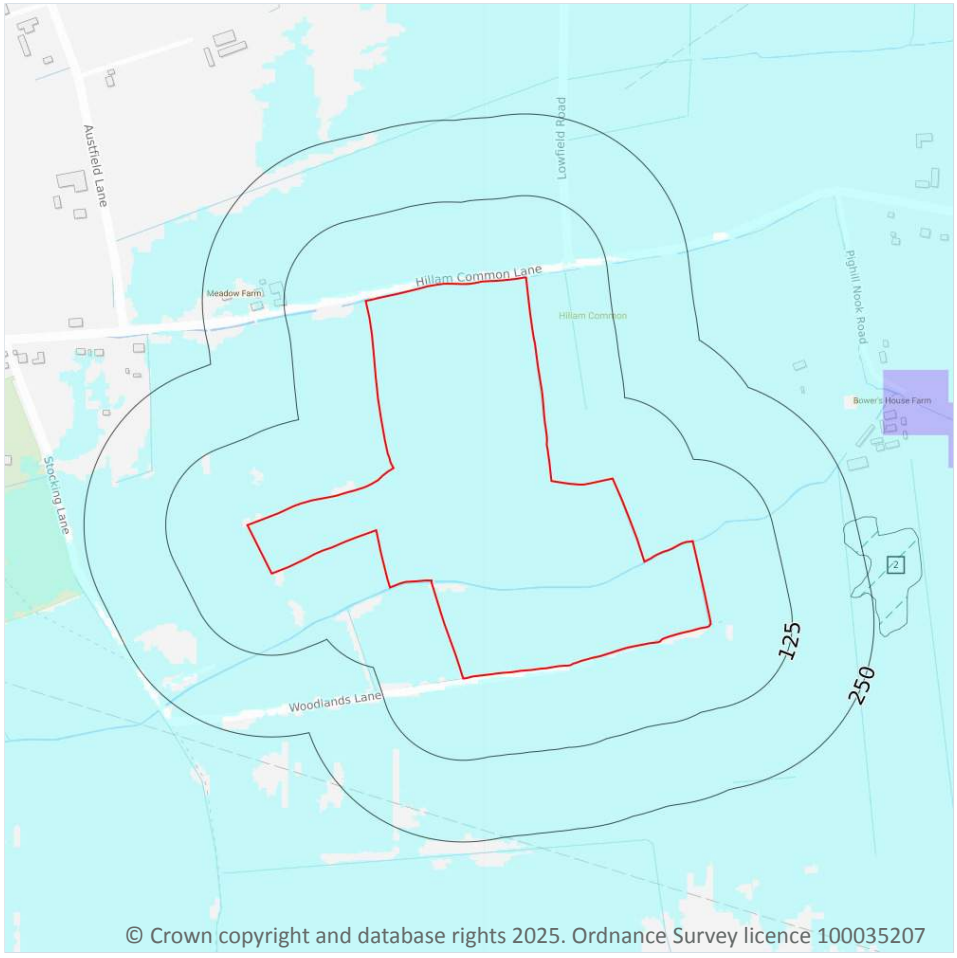
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
9	**On site**	**Aire & Don Magnesian Limestone.**	**GB40401G700900** ↗	**Poor**	**Poor**	**Good**	**2019**

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

8 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

8.1 Risk of flooding from rivers and the sea

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 51 >**

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

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

8.2 Historical Flood Events

Records within 250m	**1**

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

Features are displayed on the River and coastal flooding map on **page 51 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	218m E	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data

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

8.3 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.

8.4 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.

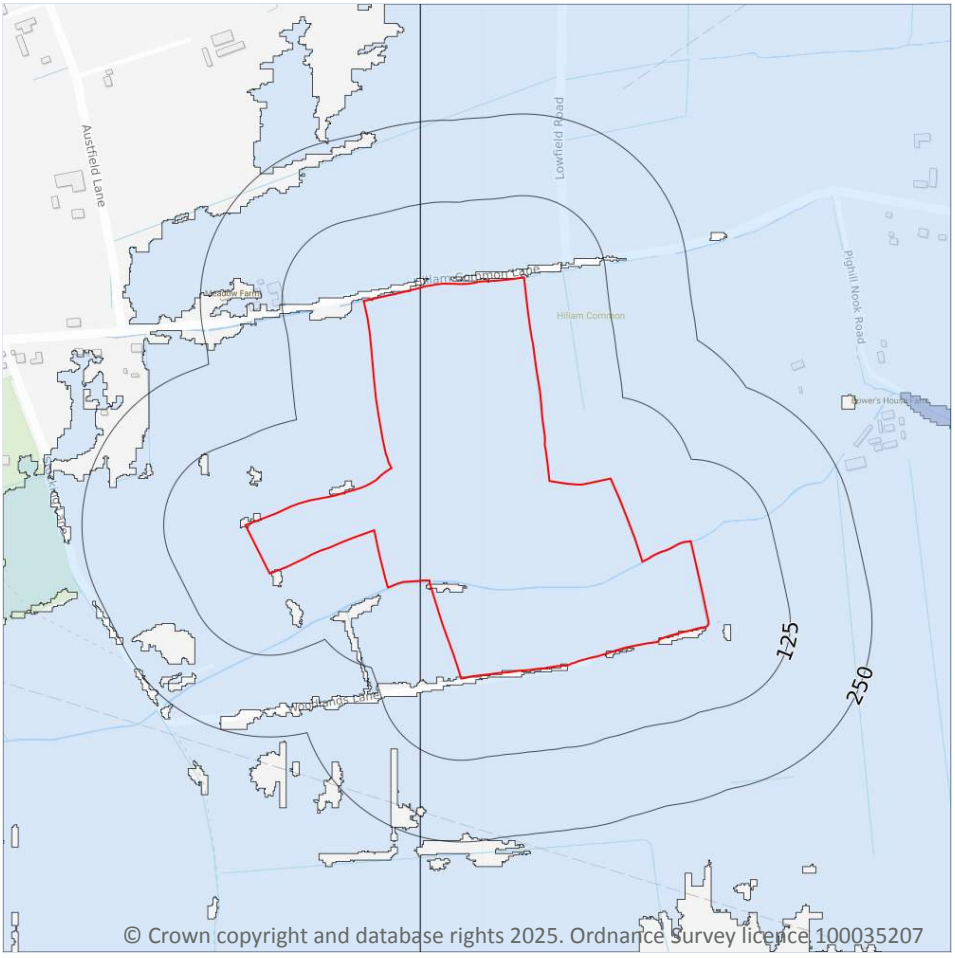
8.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

8.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 51 >**

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

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

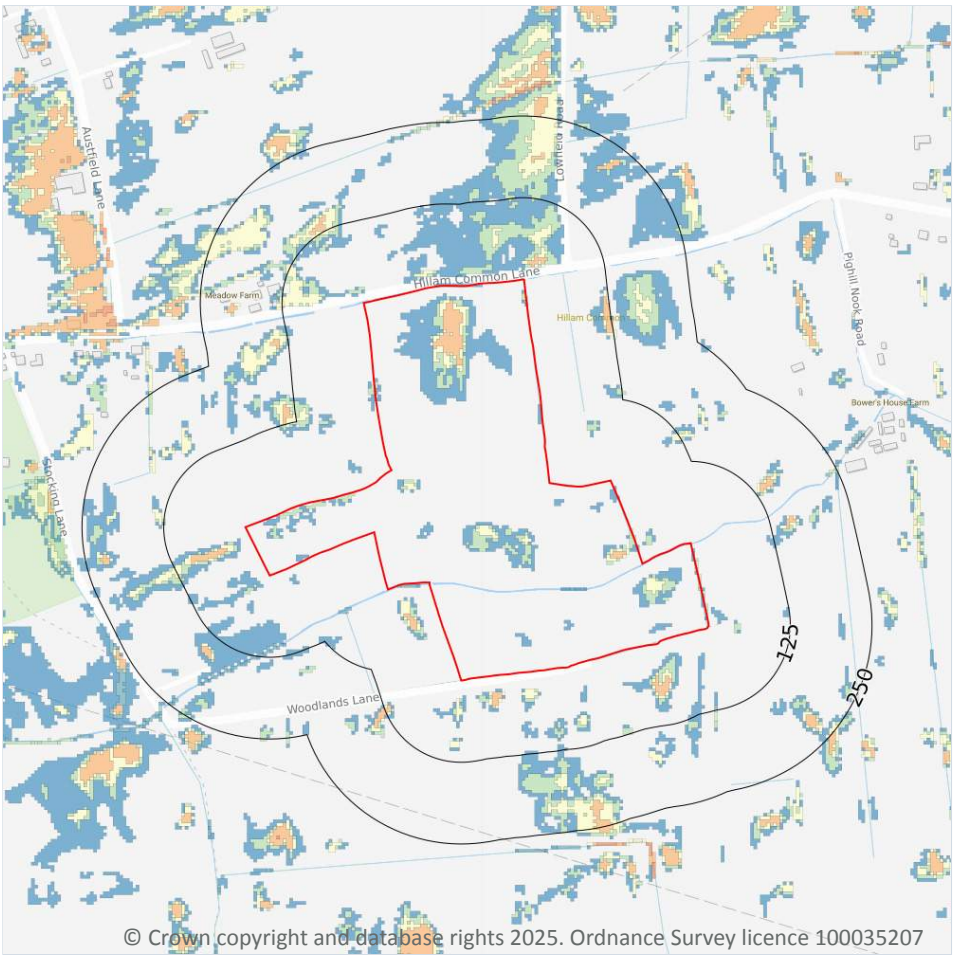
8.7 Flood Zone 3

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.

9 Surface water flooding



Site Outline
Search buffers in metres (m)

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

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

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

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

9.1 Surface water flooding

Highest risk on site	**1 in 30 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 56 >**

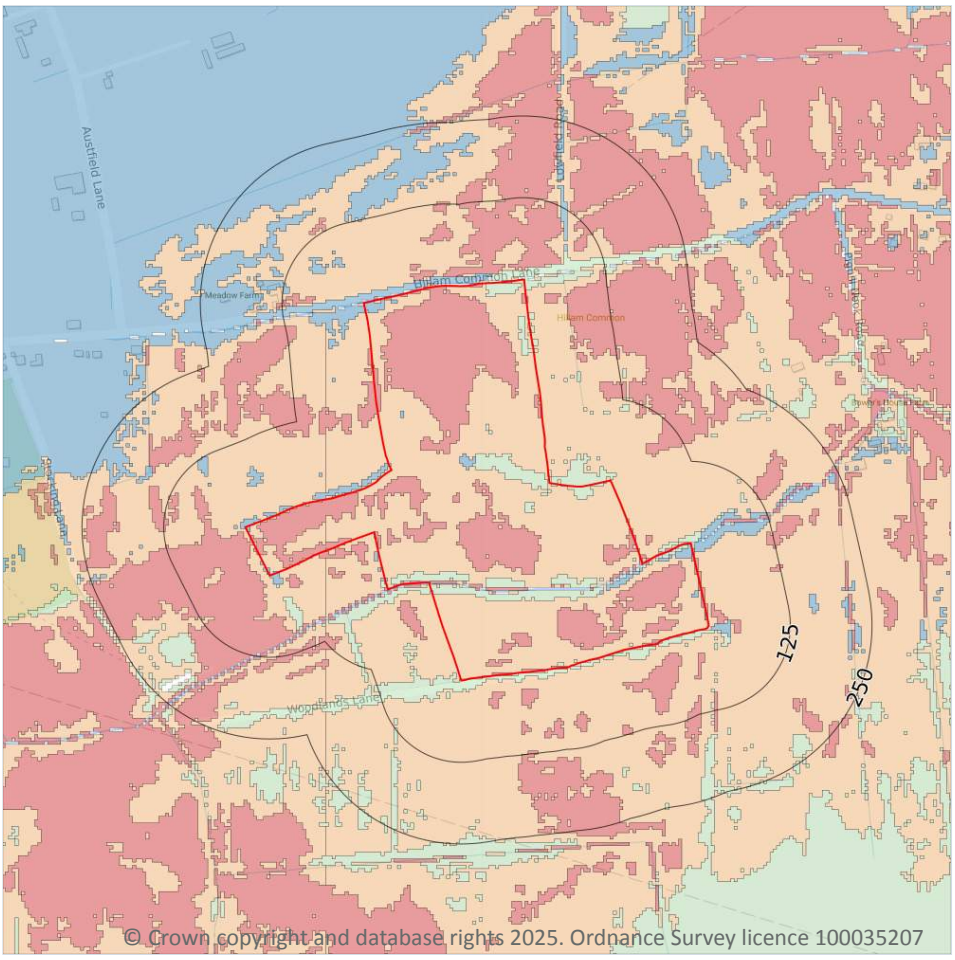
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

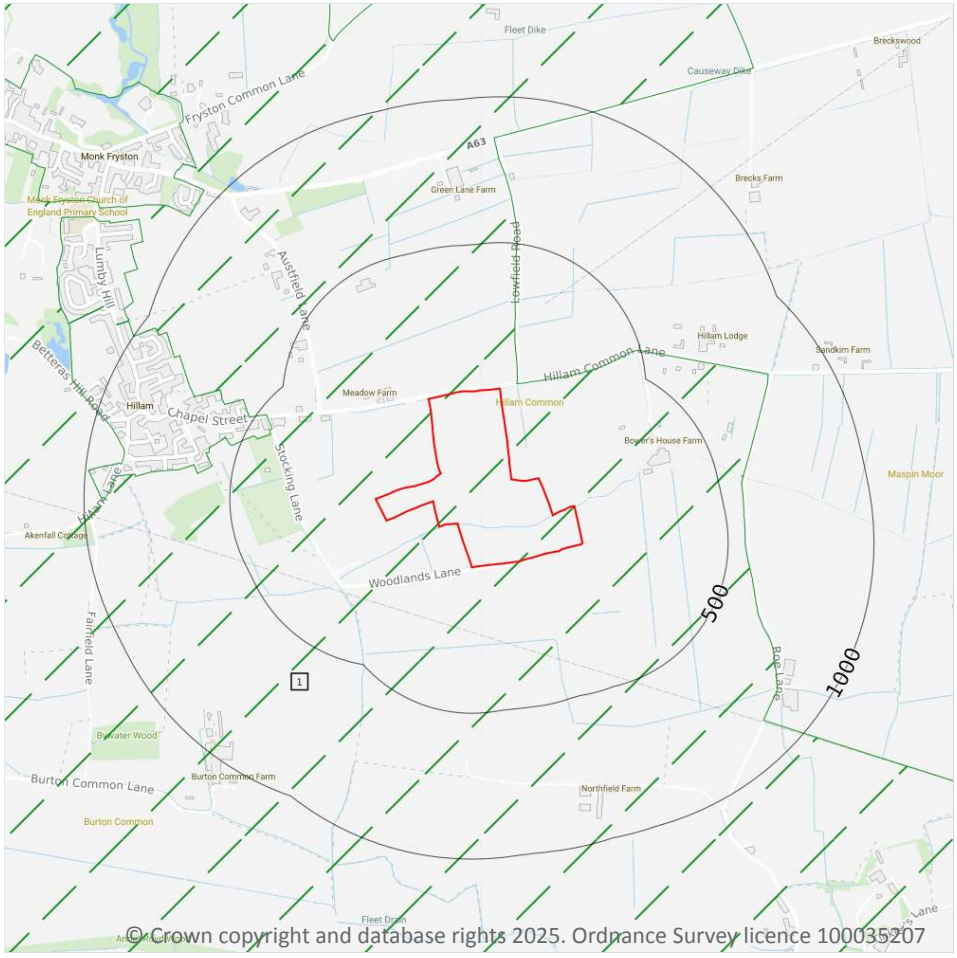
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 58 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



Site Outline

Search buffers in metres (m)

Green Belt

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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.

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

11.3 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.

11.4 Special Protection Areas (SPA)

Records within 2000m	0

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.

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

11.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

11.6 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.

11.7 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.

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Selby**

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

11.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

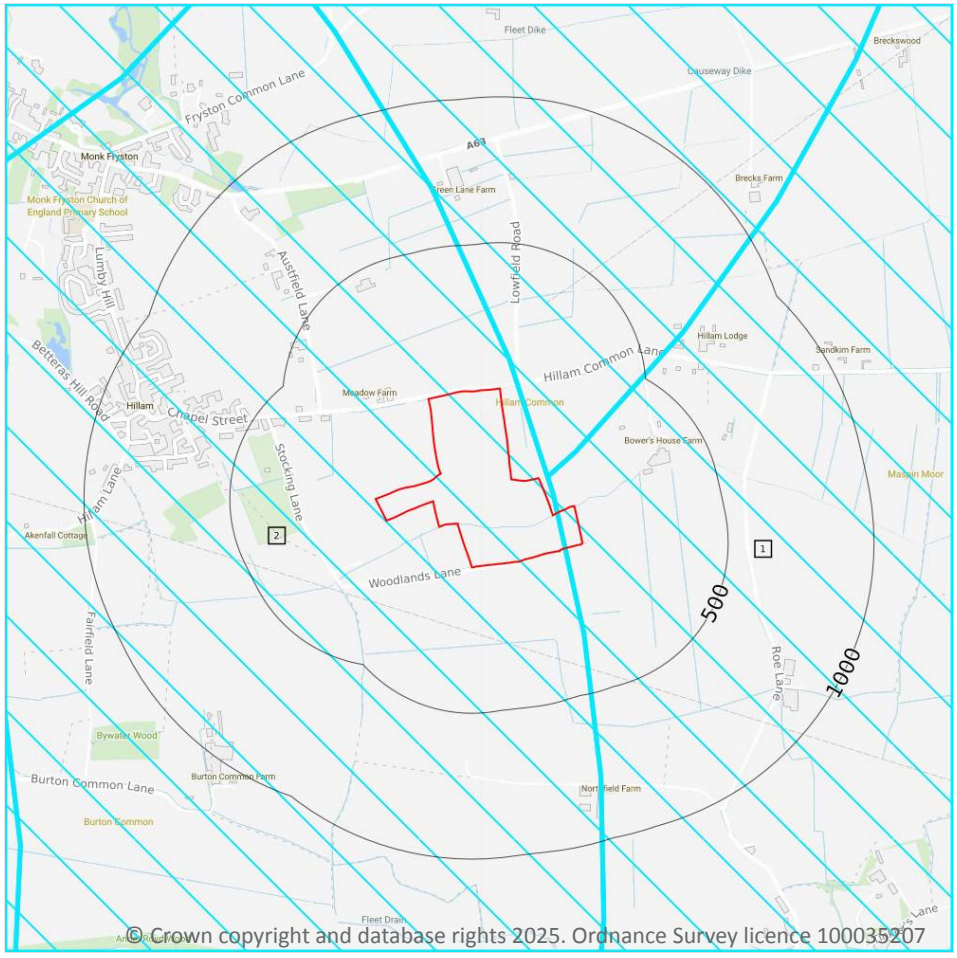
Records within 2000m	5

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

Location	Name	Type	NVZ ID	Status
On site	**The Fleet from Source to River Aire NVZ**	**Surface Water**	**272**	**Existing**
211m SW	Yorkshire Mag Limestone	Groundwater	101	Existing
714m S	Aire from River Calder to River Ouse NVZ	Surface Water	274	Existing
1354m NW	Selby Dam from Conf. Fox Dike & Carr Dike to Ouse NVZ	Surface Water	287	Existing
1756m E	The Fleet from Source to River Aire NVZ	Surface Water	272	Existing

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

SSSI Impact Zones and Units



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Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

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

11.17 SSSI Impact Risk Zones

Records on site	2

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

Features are displayed on the SSSI Impact Zones and Units map on **page 64 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.**

ID	Location	Type of developments requiring consultation
2	**On site**	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries: new proposals or extensions, outside or extending outside existing settlements/urban areas affecting greenspace, farmland or semi natural habitats. Oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.** **Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.**

This data is sourced from Natural England.

11.18 SSSI Units

Records within 2000m	**0**

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.

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

12 Visual and cultural designations

12.1 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.

12.2 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.

12.3 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.

12.4 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.

12.5 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.

12.6 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.

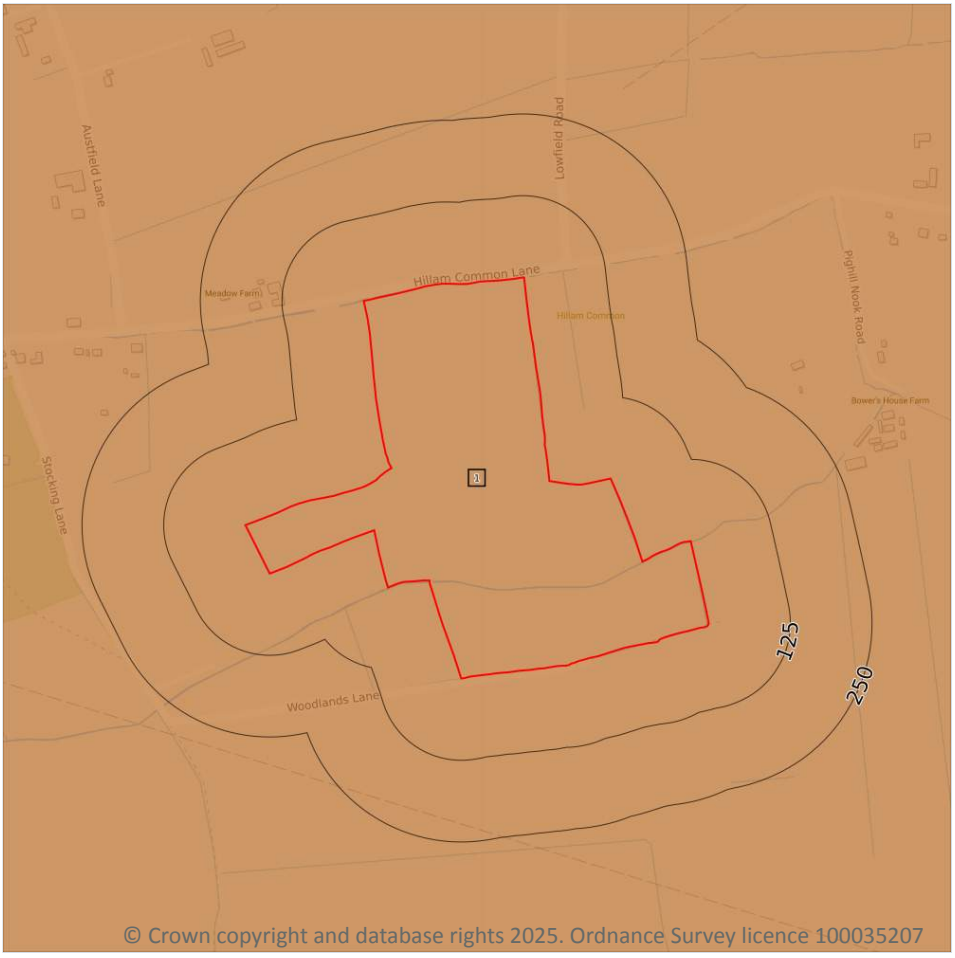
12.7 Registered Parks and Gardens

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.

13 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

13.1 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 68 >**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**

This data is sourced from Natural England.

13.2 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.

13.3 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.

13.4 Environmental Stewardship Schemes

Records within 250m	**2**

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

Location	Reference	Scheme	Start Date	End date
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
242m SE	AG00370674	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023

This data is sourced from Natural England.

13.5 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.

14 Habitat designations

14.1 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.

14.2 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.

14.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

14.4 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.

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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Groundsure LOCATION INTELLIGENCE

Geo Insight

302939-00 LVS - Site 3

Order Details

Date: 08/01/2025

Your ref: 302939-00 LVS Site 3

Our Ref: GS-2XD-1PV-UFA-G31

Site Details

Location: 452000 428604

Area: 19.87 ha

Authority: The North Yorkshire Council ↗

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Summary of findings p. 2 >

Aerial image p. 5 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
10 >	1.1 >	10k Availability >	Identified (within 500m)				
11	1.2	Artificial and made ground (10k)	0	0	0	0	-
12 >	1.3 >	Superficial geology (10k) >	3	0	0	1	-
13	1.4	Landslip (10k)	0	0	0	0	-
14 >	1.5 >	Bedrock geology (10k) >	1	0	2	3	-
15 >	1.6 >	Bedrock faults and other linear features (10k) >	0	0	0	3	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
16 >	2.1 >	50k Availability >	Identified (within 500m)				
17	2.2	Artificial and made ground (50k)	0	0	0	0	-
17	2.3	Artificial ground permeability (50k)	0	0	-	-	-
18 >	2.4 >	Superficial geology (50k) >	3	0	0	1	-
19 >	2.5 >	Superficial permeability (50k) >	Identified (within 50m)				
19	2.6	Landslip (50k)	0	0	0	0	-
19	2.7	Landslip permeability (50k)	None (within 50m)				
20 >	2.8 >	Bedrock geology (50k) >	1	0	2	3	-
21 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
21 >	2.10 >	Bedrock faults and other linear features (50k) >	0	0	0	3	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
22 >	3.1 >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
23 >	4.1 >	Shrink swell clays >	Low (within 50m)				
24 >	4.2 >	Running sands >	Low (within 50m)				
26 >	4.3 >	Compressible deposits >	Moderate (within 50m)				
28 >	4.4 >	Collapsible deposits >	Very low (within 50m)				
29 >	4.5 >	Landslides >	Very low (within 50m)				
30 >	4.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				

Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
32	5.1	BritPits	0	0	0	0	-
33 >	5.2 >	Surface ground workings >	0	0	1	-	-
33	5.3	Underground workings	0	0	0	0	0
33	5.4	Underground mining extents	0	0	0	0	-
33 >	5.5 >	Historical Mineral Planning Areas >	0	0	0	2	-
34	5.6	Non-coal mining	0	0	0	0	0
34	5.7	JPB mining areas	None (within 0m)				
34	5.8	The Coal Authority non-coal mining	0	0	0	0	-
34	5.9	Researched mining	0	0	0	0	-
35	5.10	Mining record office plans	0	0	0	0	-
35	5.11	BGS mine plans	0	0	0	0	-
35 >	5.12 >	Coal mining >	Identified (within 0m)				
35	5.13	Brine areas	None (within 0m)				
36	5.14	Gypsum areas	None (within 0m)				
36	5.15	Tin mining	None (within 0m)				
36	5.16	Clay mining	None (within 0m)				

Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
37	6.1	Natural cavities	0	0	0	0	-
37	6.2	Mining cavities	0	0	0	0	0
37	6.3	Reported recent incidents	0	0	0	0	-
37	6.4	Historical incidents	0	0	0	0	-

Page	Section	Radon >	
39 >	7.1 >	Radon >	Less than 1% (within 0m)

Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
41 >	8.1 >	BGS Estimated Background Soil Chemistry >	10	2	-	-	-
41	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
42	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m

43	9.1	Underground railways (London)	0	0	0	-	-
43	9.2	Underground railways (Non-London)	0	0	0	-	-
43	9.3	Railway tunnels	0	0	0	-	-
43	9.4	Historical railway and tunnel features	0	0	0	-	-
43	9.5	Royal Mail tunnels	0	0	0	-	-
44	9.6	Historical railways	0	0	0	-	-
44	9.7	Railways	0	0	0	-	-
44	9.8	Crossrail 2	0	0	0	0	-
44	9.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 19.87ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 19.87ha

Recent site history - 2012 aerial photograph

Capture Date: 26/03/2012

Site Area: 19.87ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

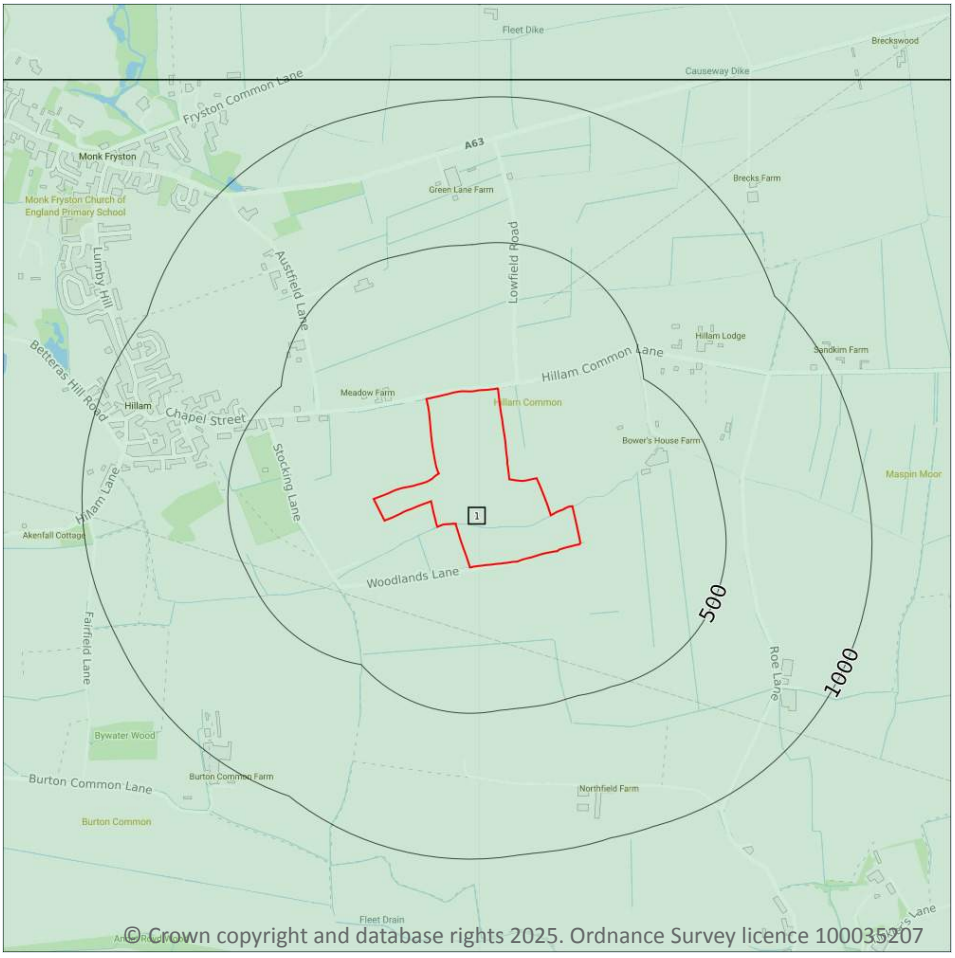
Site Area: 19.87ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 19.87ha

1 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

1.1 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 10 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SE52NW**

This data is sourced from the British Geological Survey.

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

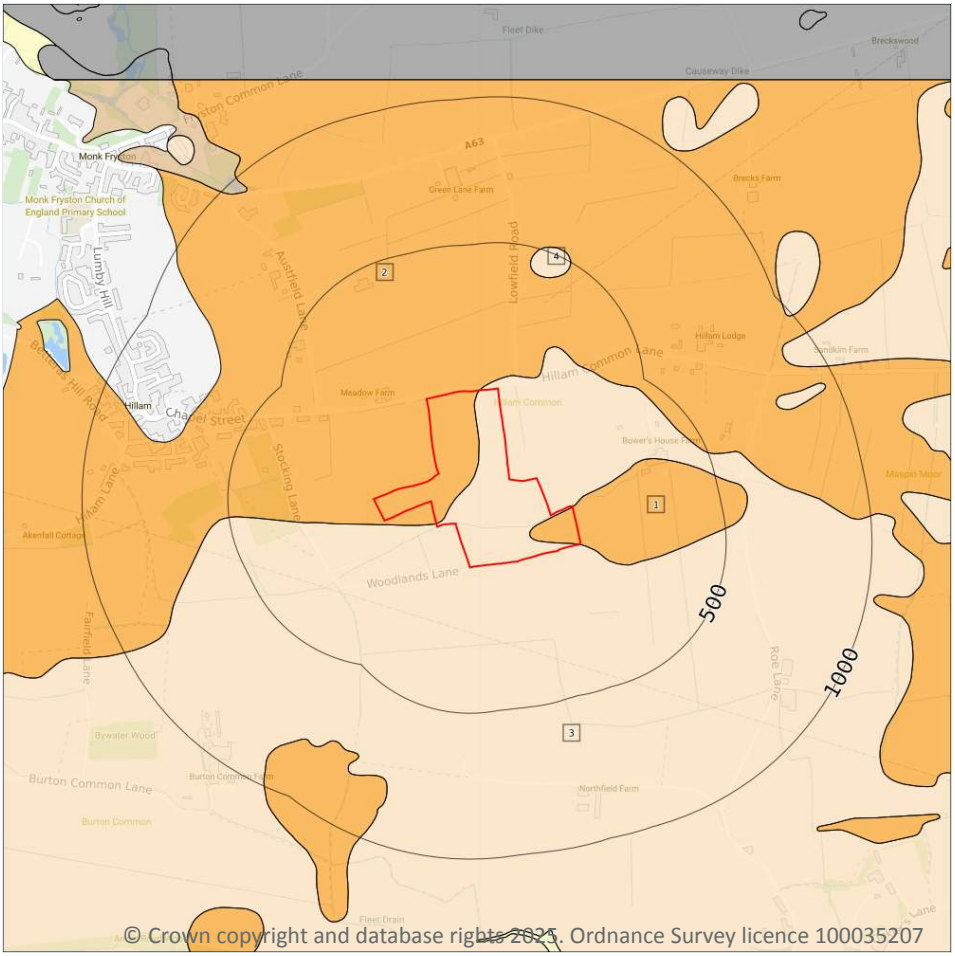
1.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

1.3 Superficial geology (10k)

Records within 500m	4

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 12 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
2	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
3	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
4	412m N	BREI-S	Breighton Sand Formation - Sand	Sand

This data is sourced from the British Geological Survey.

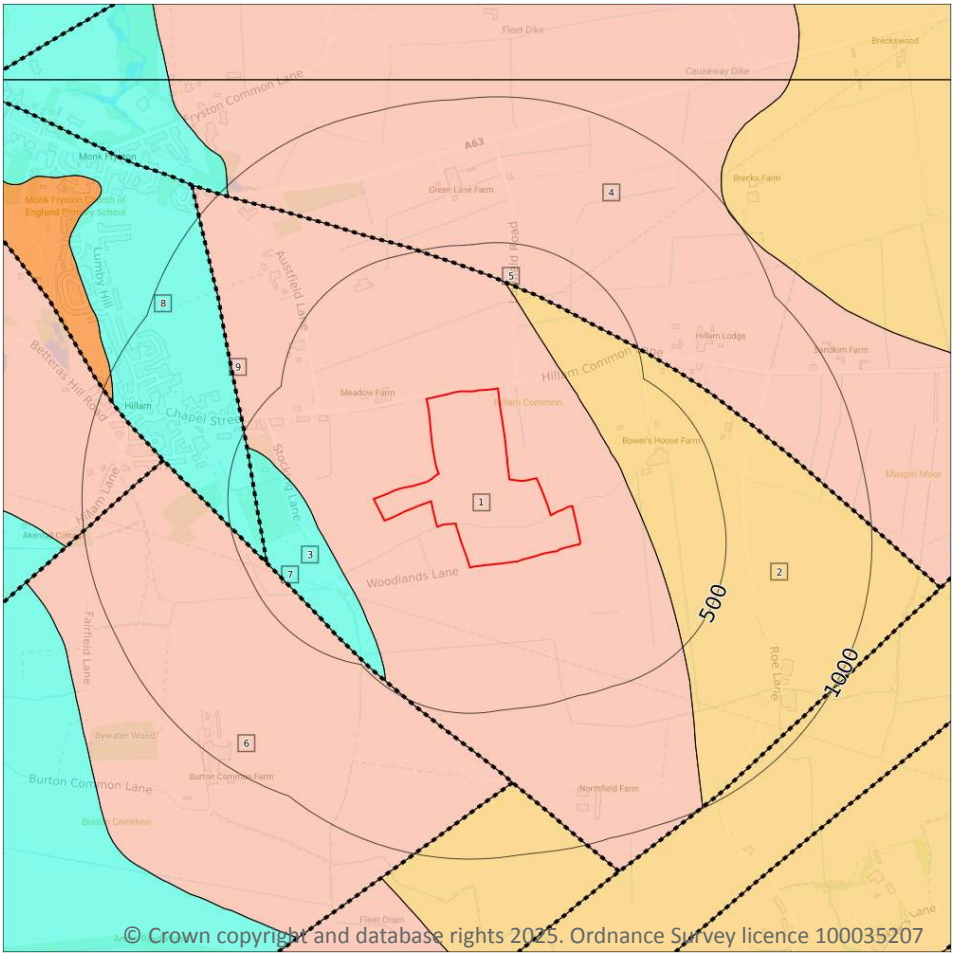
1.4 Landslip (10k)

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.

1.5 Bedrock geology (10k)

Records within 500m	6

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 14 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**ROX-CAMDST**	**Roxby Formation - Calcareous Mudstone**	**Early Triassic Epoch - Late Permian Epoch [Obsolete name]**
2	202m E	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

ID	Location	LEX Code	Description	Rock age
3	211m SW	BTH-DOLMST	Brotherton Formation - Dolomitic Limestone	Late Permian Epoch [Obsolete name]
4	345m N	ROX-CAMDST	Roxby Formation - Calcareous Mudstone	Early Triassic Epoch - Late Permian Epoch [Obsolete name]
6	390m SW	ROX-CAMDST	Roxby Formation - Calcareous Mudstone	Early Triassic Epoch - Late Permian Epoch [Obsolete name]
8	399m W	BTH-DOLMST	Brotherton Formation - Dolomitic Limestone	Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

1.6 Bedrock faults and other linear features (10k)

Records within 500m **3**

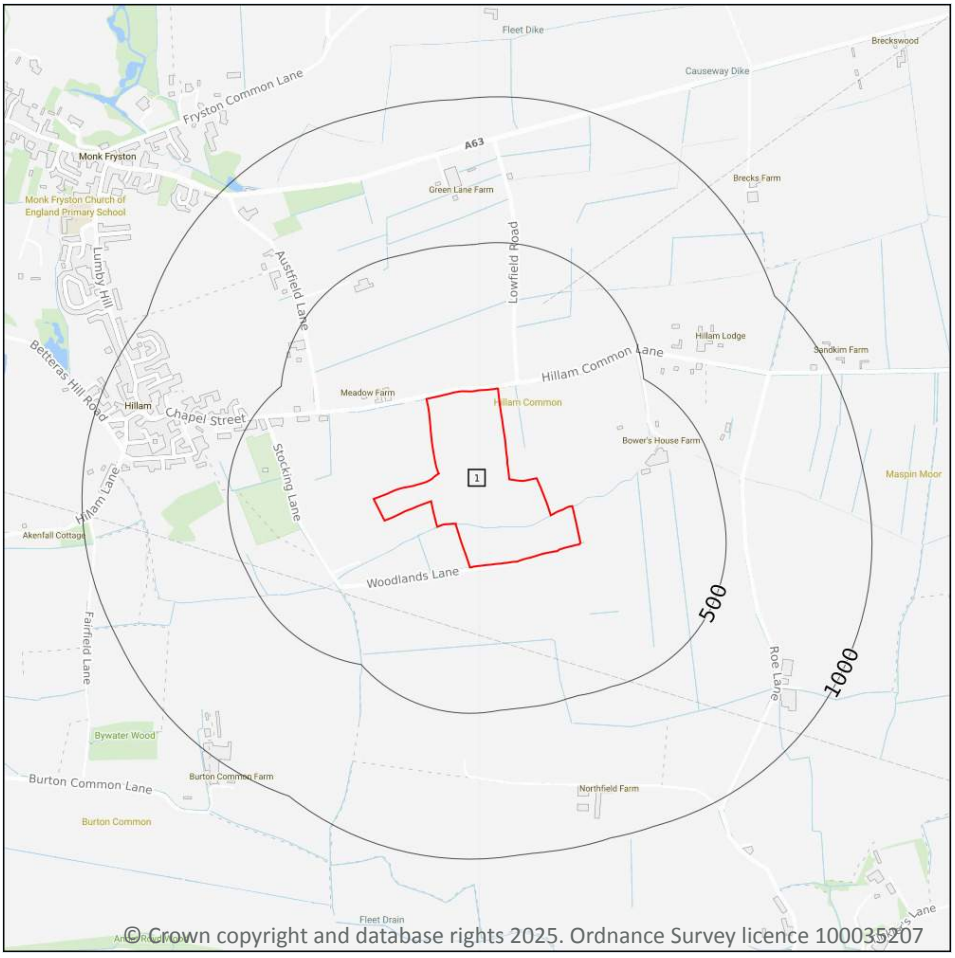
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 14 >**

ID	Location	Category	Description
5	345m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
7	390m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	399m W	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

2 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

2.1 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 16 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW078_wakefield_v4**

This data is sourced from the British Geological Survey.

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

2.2 Artificial and made ground (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

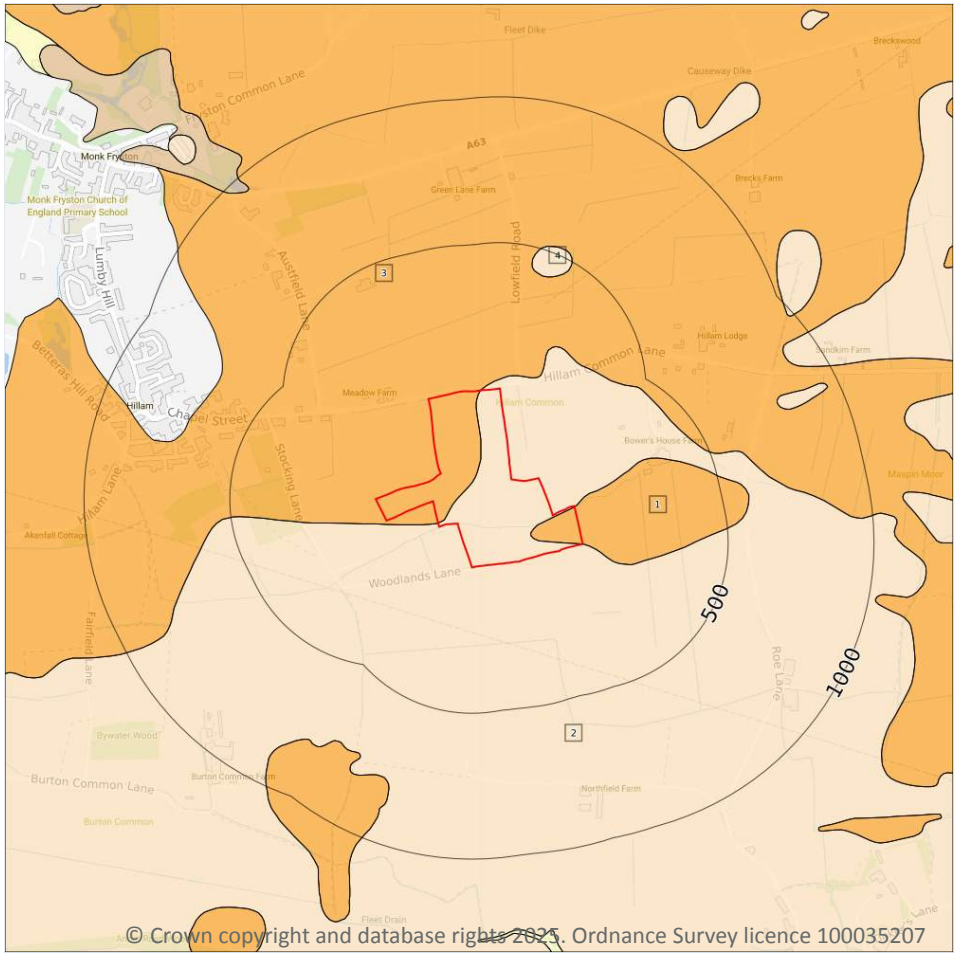
2.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m **4**

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 18 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
2	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
3	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
4	413m N	BREI-S	BREIGHTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

2.5 Superficial permeability (50k)

Records within 50m	**3**

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**	**High**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

2.6 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.

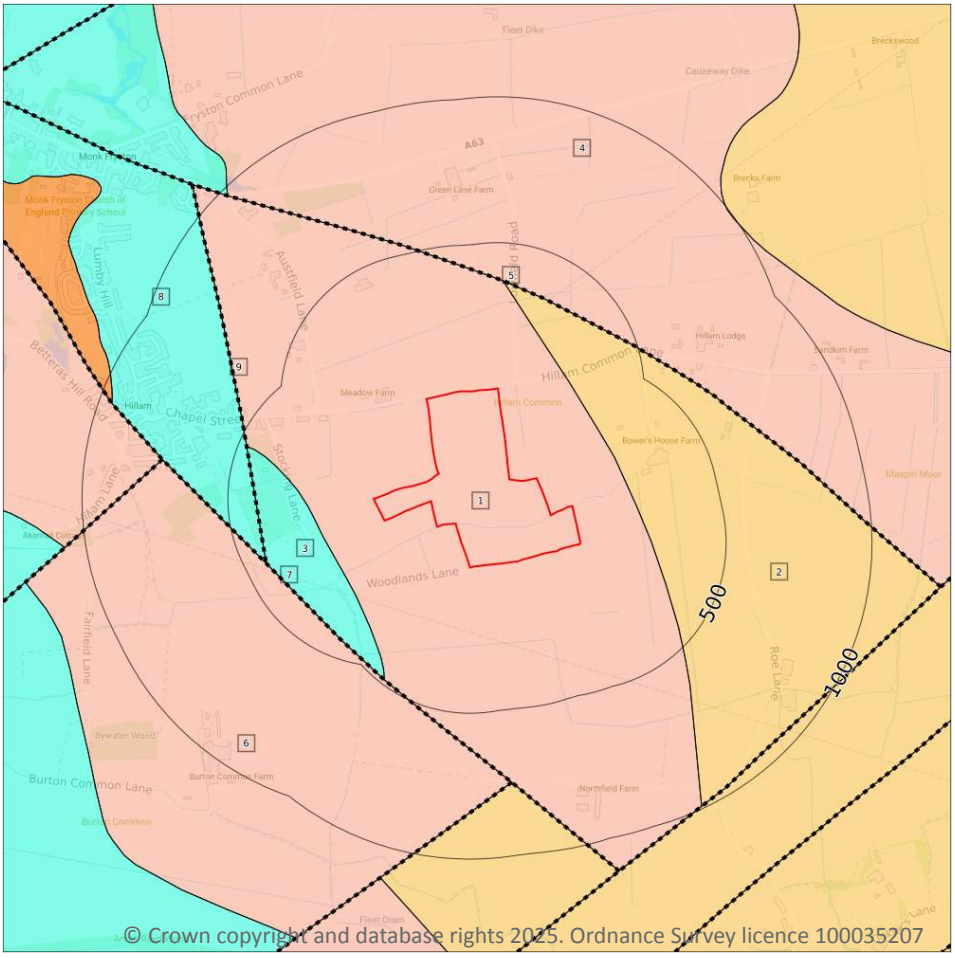
2.7 Landslip permeability (50k)

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.

2.8 Bedrock geology (50k)

Records within 500m	6

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 20 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**ROX-CAMDST**	**ROXBY FORMATION - MUDSTONE, CALCAREOUS**	**-**
2	201m E	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
3	211m SW	BTH-DOLMST	BROTHERTON FORMATION - LIMESTONE, DOLOMITIC	-

ID	Location	LEX Code	Description	Rock age
4	346m N	ROX-CAMDST	ROXBY FORMATION - MUDSTONE, CALCAREOUS	-
6	393m SW	ROX-CAMDST	ROXBY FORMATION - MUDSTONE, CALCAREOUS	-
8	400m W	BTH-DOLMST	BROTHERTON FORMATION - LIMESTONE, DOLOMITIC	-

This data is sourced from the British Geological Survey.

2.9 Bedrock permeability (50k)

Records within 50m	**1**

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

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

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m	**3**

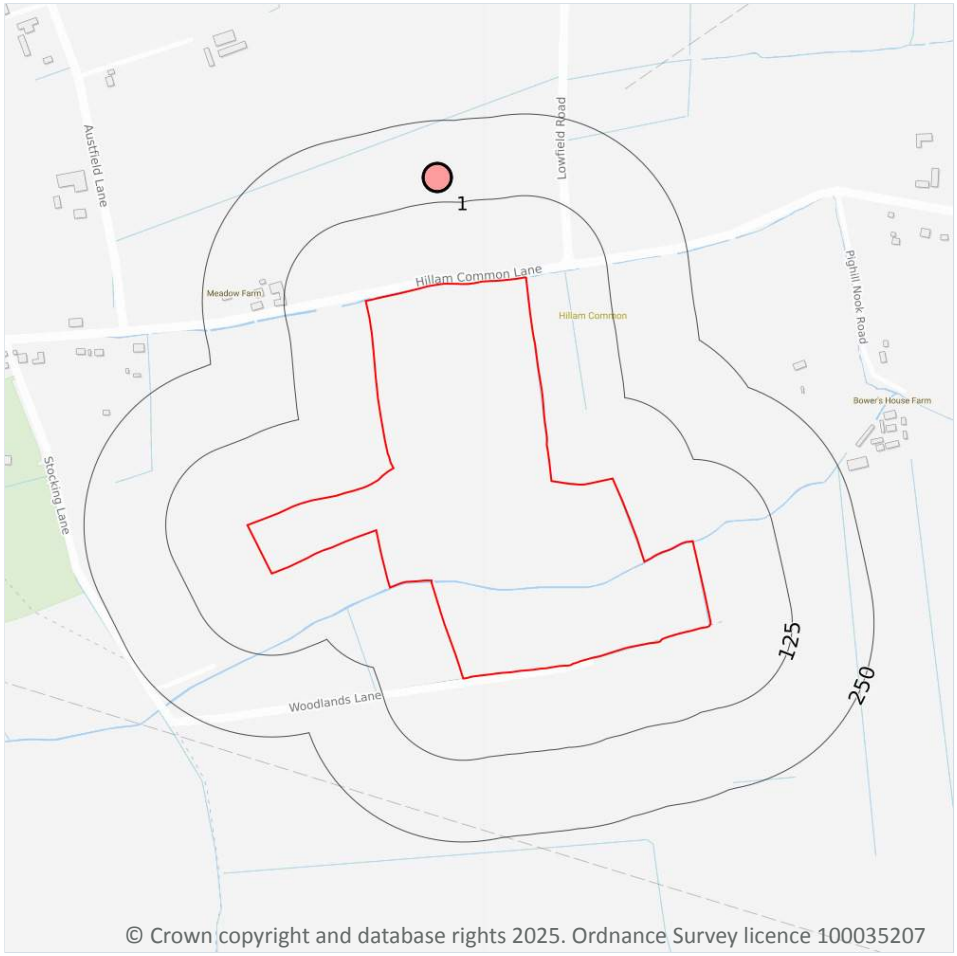
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 20 >**

ID	Location	Category	Description
5	346m N	FAULT	Fault, inferred
7	393m SW	FAULT	Fault, inferred
9	400m W	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

3 Boreholes



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Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

3.1 BGS Boreholes

Records within 250m	1

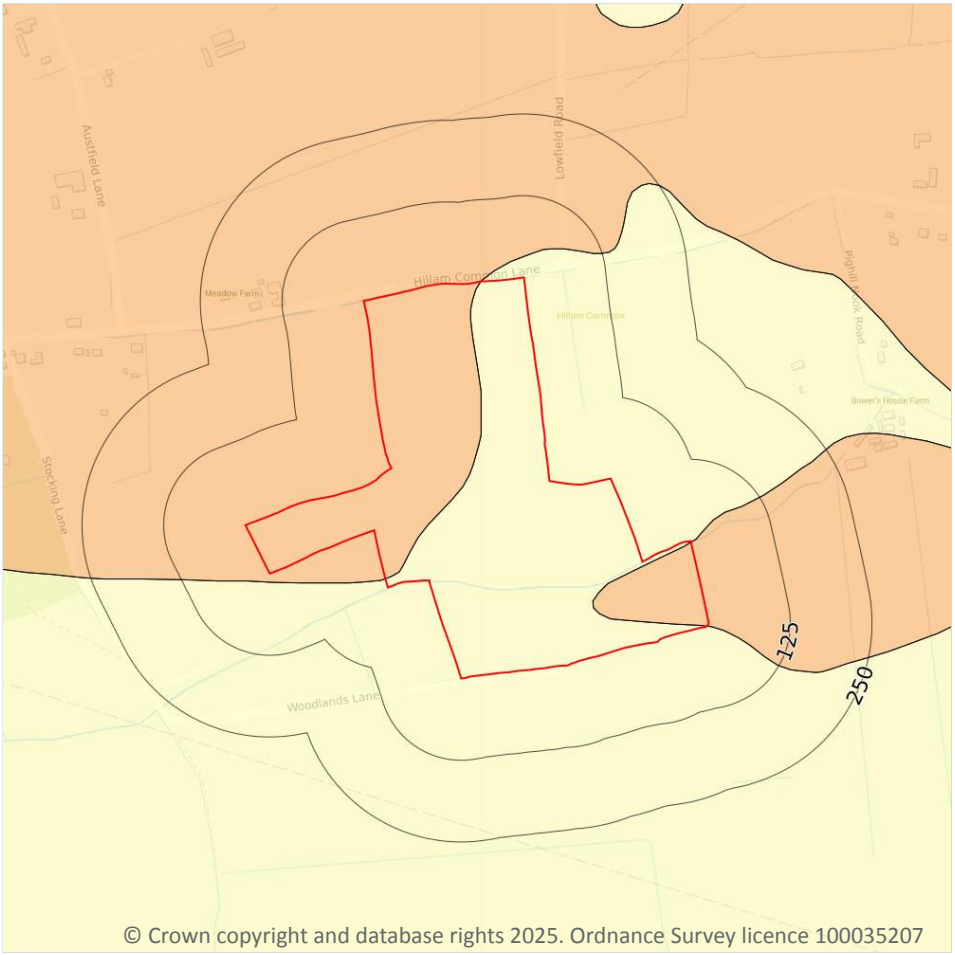
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 22 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	163m N	451918 429094	HILLAM AND MONK FRYSTON AH/F8	39.01	N	116942 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



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Site Outline

Search buffers in metres (m)

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

4.1 Shrink swell clays

Records within 50m	2

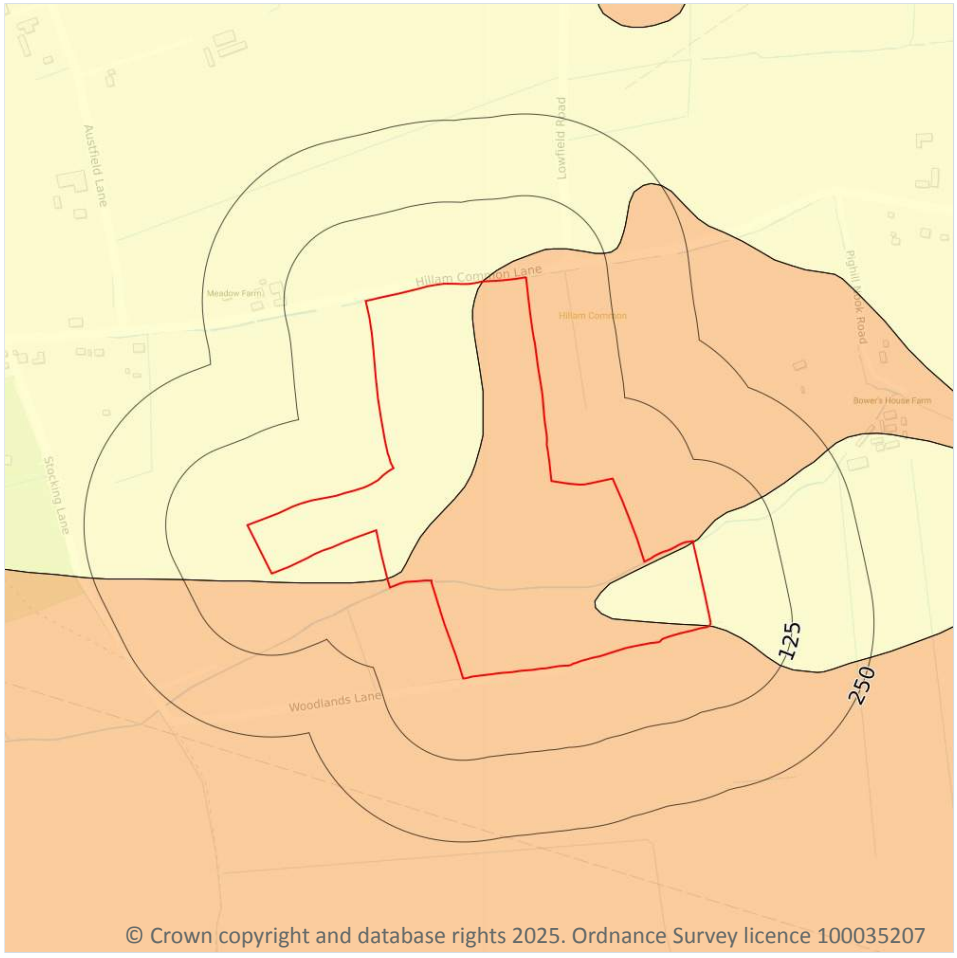
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 23 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

4.2 Running sands

Records within 50m	2

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

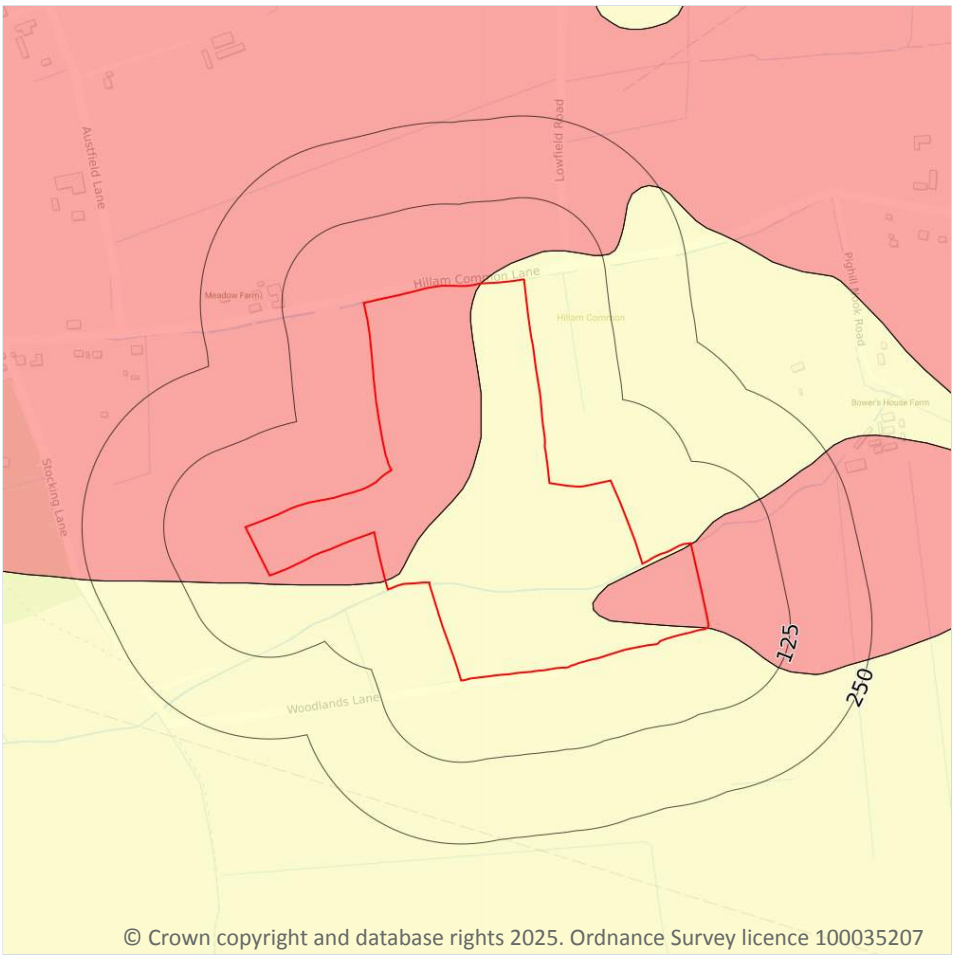
Features are displayed on the Natural ground subsidence - Running sands map on **page 24 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

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

4.3 Compressible deposits

Records within 50m	2

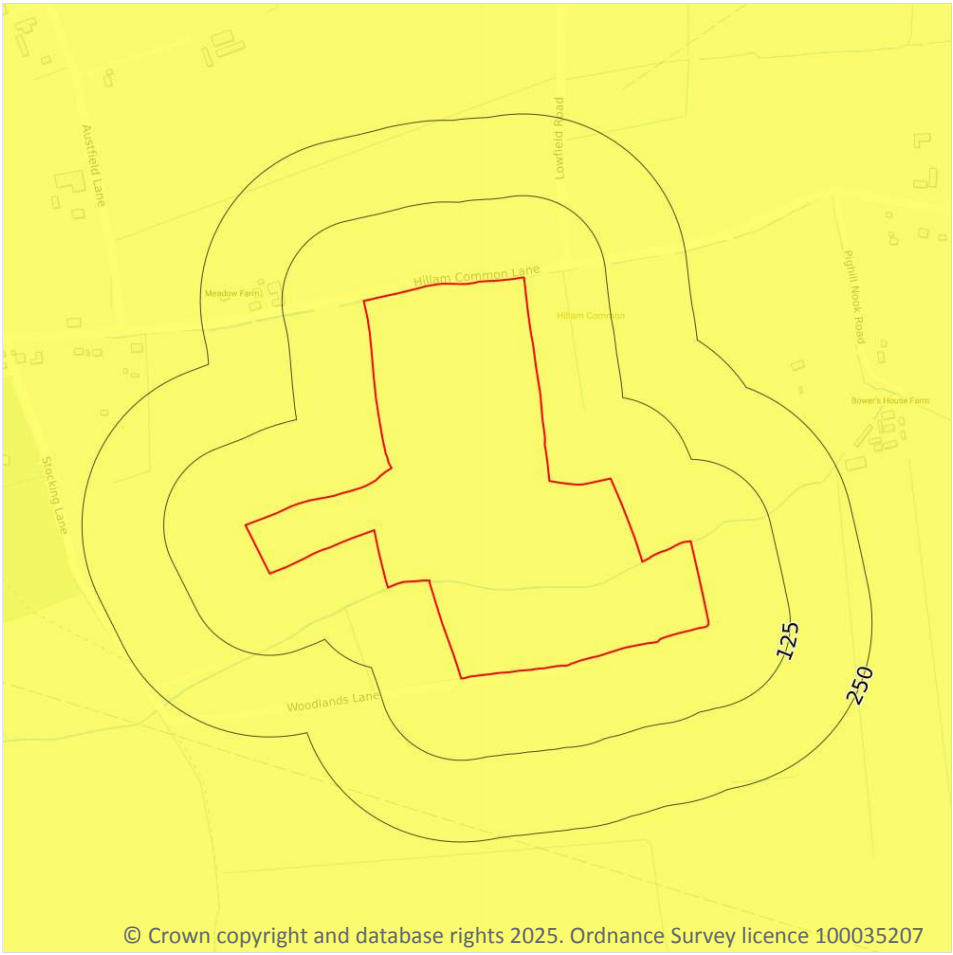
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 26 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

4.4 Collapsible deposits

Records within 50m	1

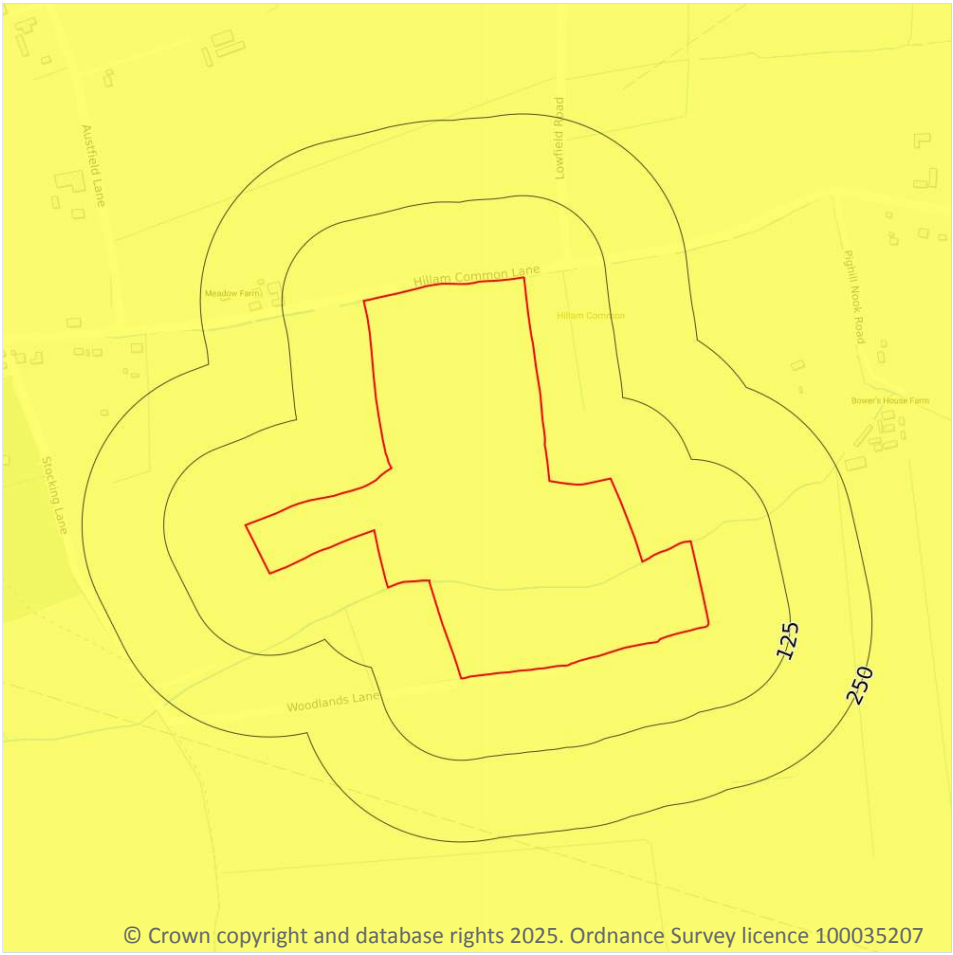
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 28 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely 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

4.5 Landslides

Records within 50m	1

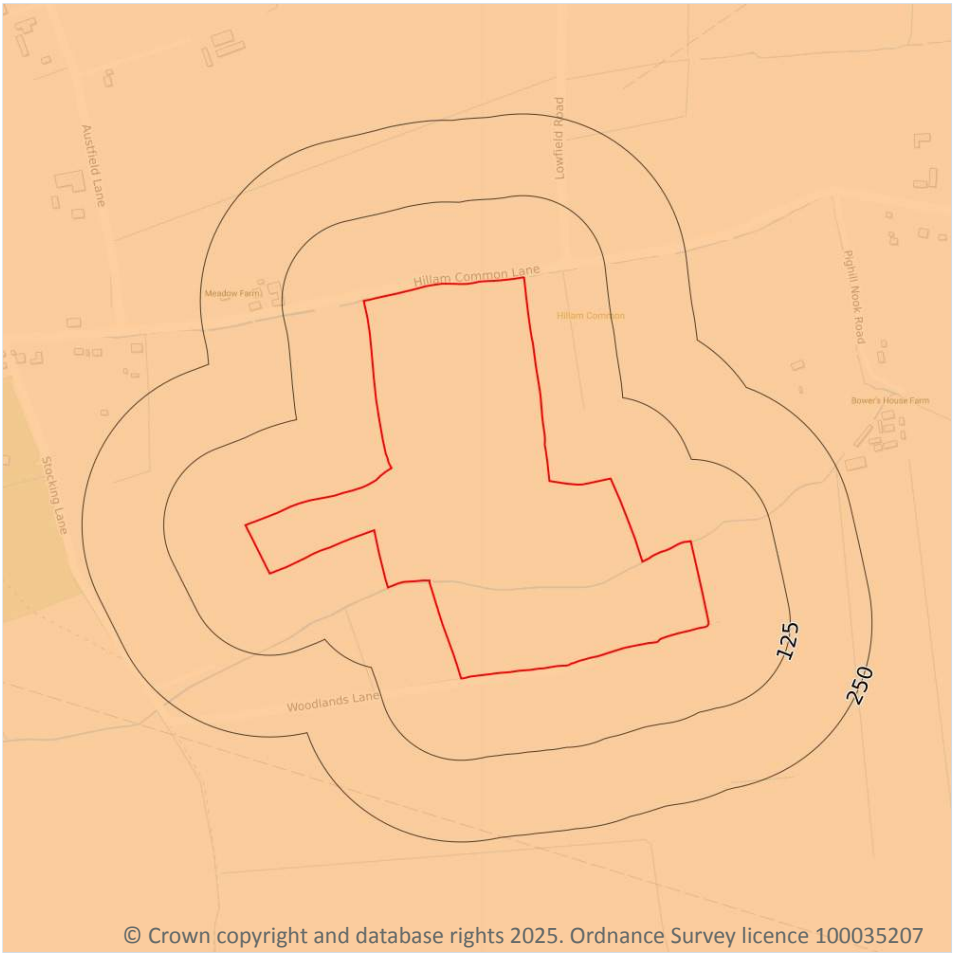
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 29 >**

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



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Site Outline

Search buffers in metres (m)

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

4.6 Ground dissolution of soluble rocks

Records within 50m	1

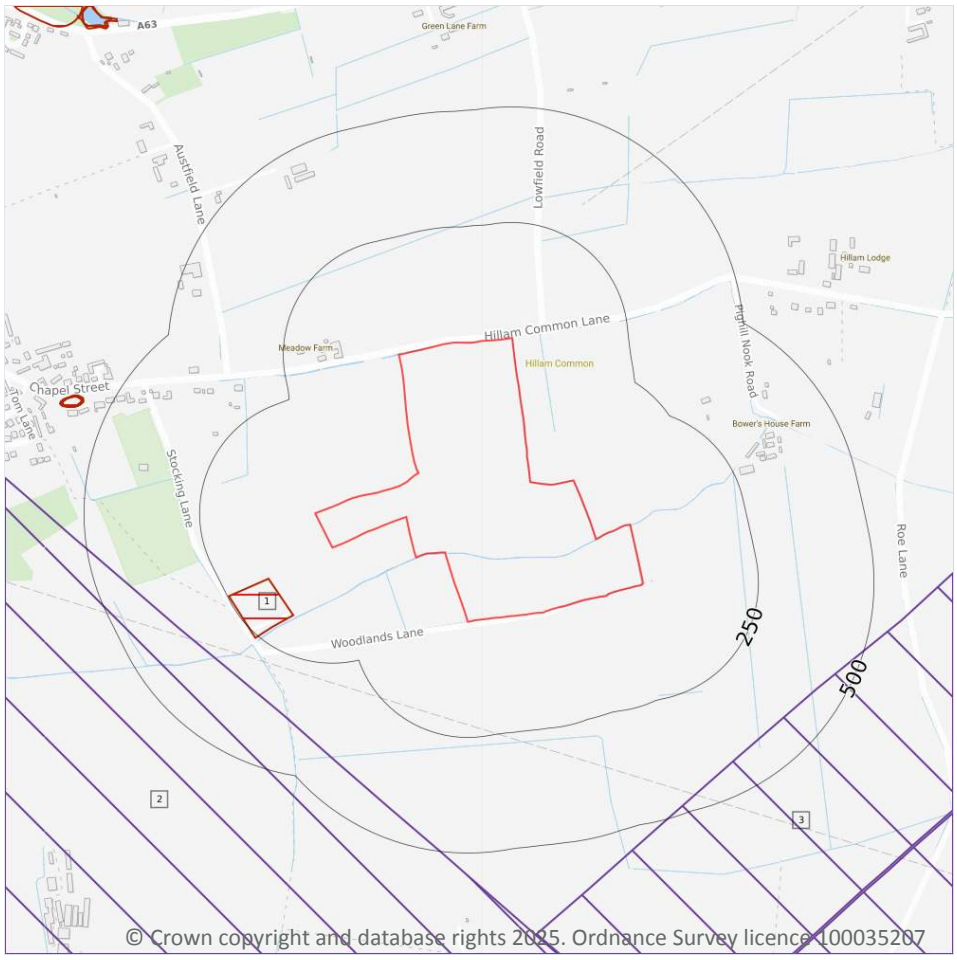
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 30 >**

Location	Hazard rating	Details
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**

This data is sourced from the British Geological Survey.

5 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

5.1 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

5.2 Surface ground workings

Records within 250m	1

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

Features are displayed on the Mining and ground workings map on **page 32 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	152m SW	Sewage Works	1987	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

5.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

5.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

5.5 Historical Mineral Planning Areas

Records within 500m	2

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 and ground workings map on **page 32 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
2	346m SW	Kellingley colliery	Coal (deep)	Working is wholly underground	Valid	Not available

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	418m SE	Kellingley colliery	Coal (deep)	Working is wholly underground	Application	Not available

This data is sourced from the British Geological Survey.

5.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

5.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

5.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

5.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is

approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

5.10 Mining record office plans

Records within 500m	**0**

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

This data is sourced from Groundsure.

5.11 BGS mine plans

Records within 500m	**0**

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

This data is sourced from Groundsure.

5.12 Coal mining

Records on site	**1**

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

5.13 Brine areas

Records on site	**0**

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

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

5.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

5.16 Clay mining

Records on site	0

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

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

6 Ground cavities and sinkholes

6.1 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.

6.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

6.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

6.4 Historical incidents

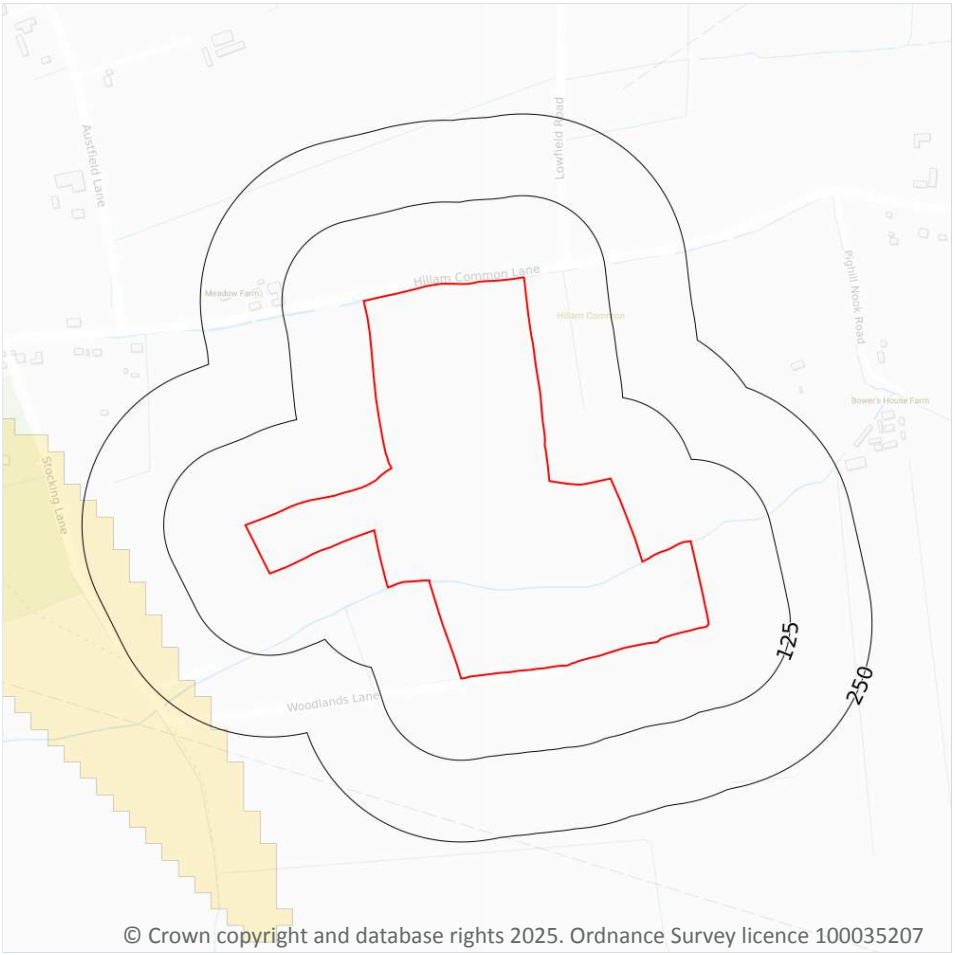
Records within 500m	0

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

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

This data is sourced from Groundsure.

7 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%

7.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 39 >**

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

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

8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m	12

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
9m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
9m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city

between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

8.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

9 Railway infrastructure and projects

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

9.4 Historical railway and tunnel features

Records within 250m	0

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.

This data is sourced from Ordnance Survey/Groundsure.

9.5 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.

9.6 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.

9.7 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.

9.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

9.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

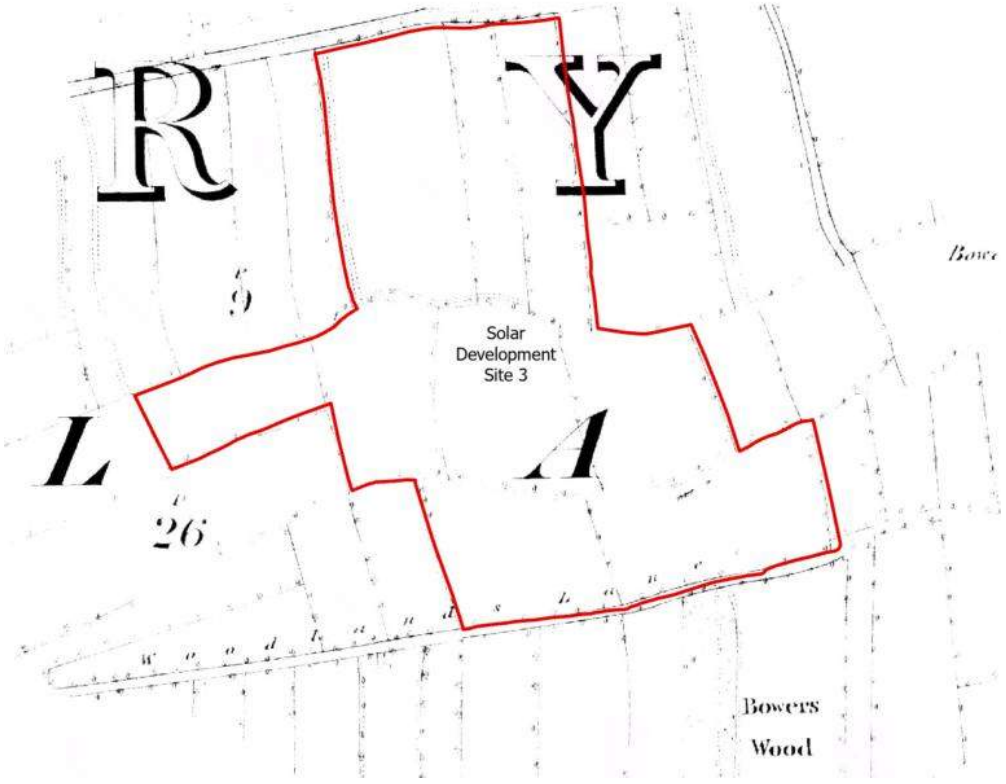
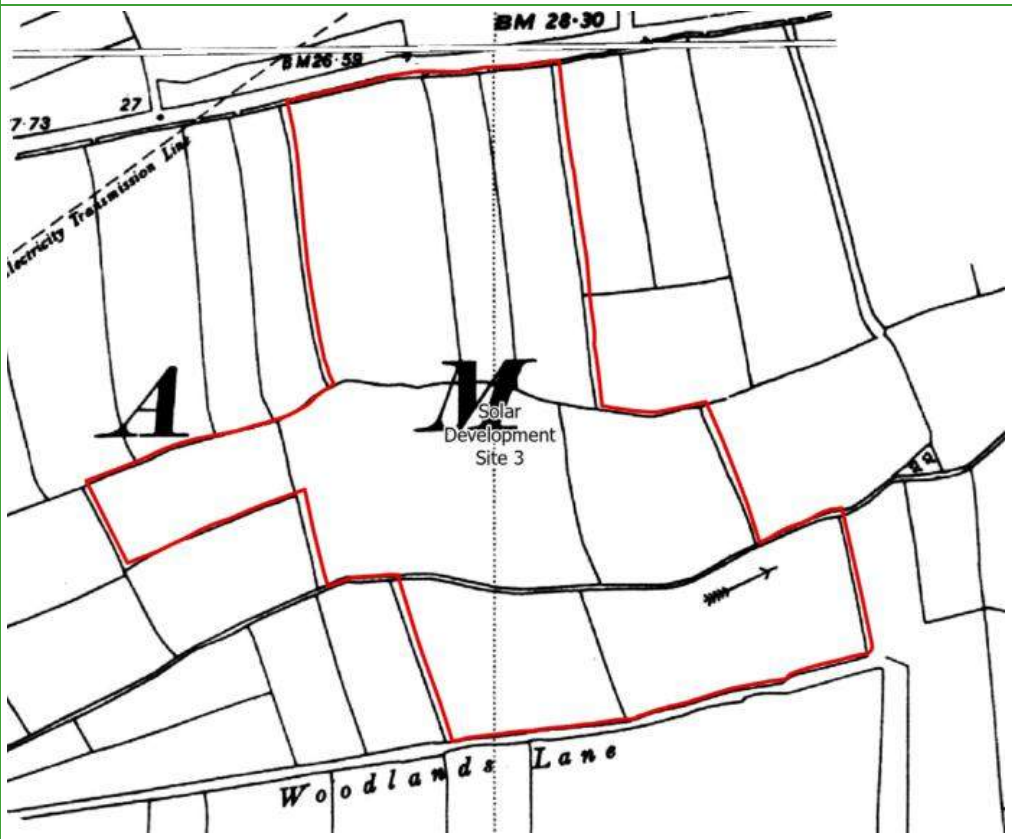
Data providers

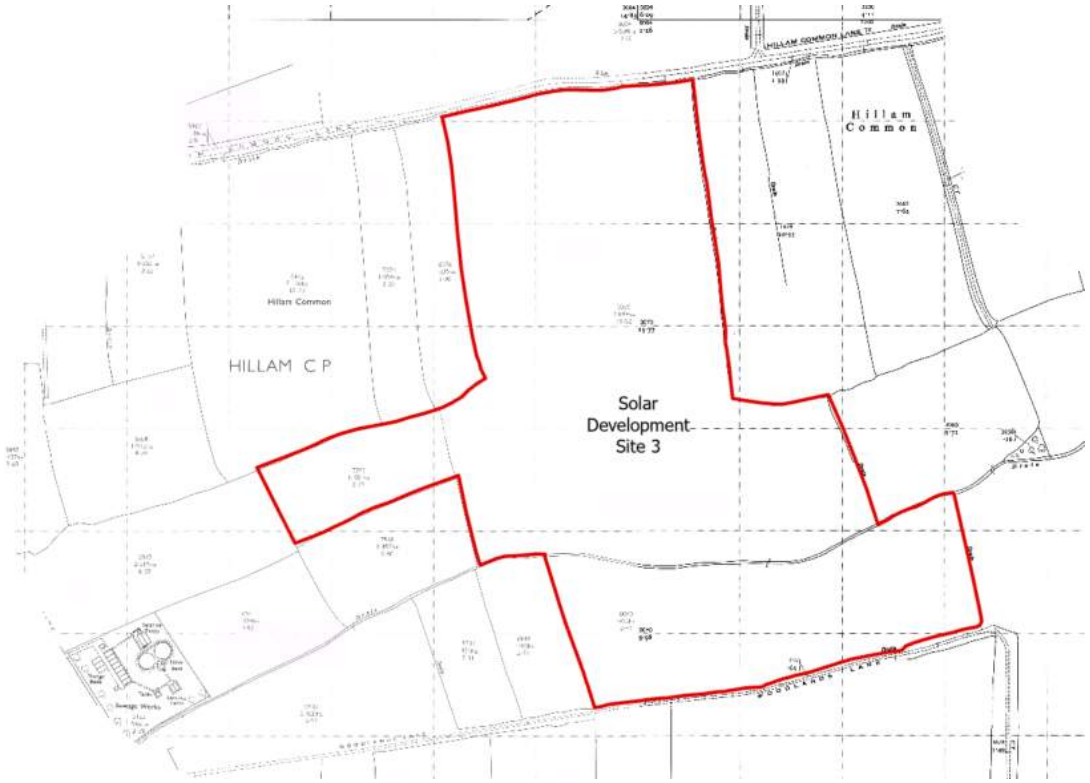
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

C.2. Historical Maps

Map date Scale	Map extract
1850 1:10,560 © Groundsure Ltd	
1950 1:10,560 © Groundsure Ltd	

Map date Scale	Map extract
1961 – 1963 1:2,500 © Groundsure Ltd	
2019	

Map date Scale	Map extract
2023	

C.3. Consultants Coal Mining Report

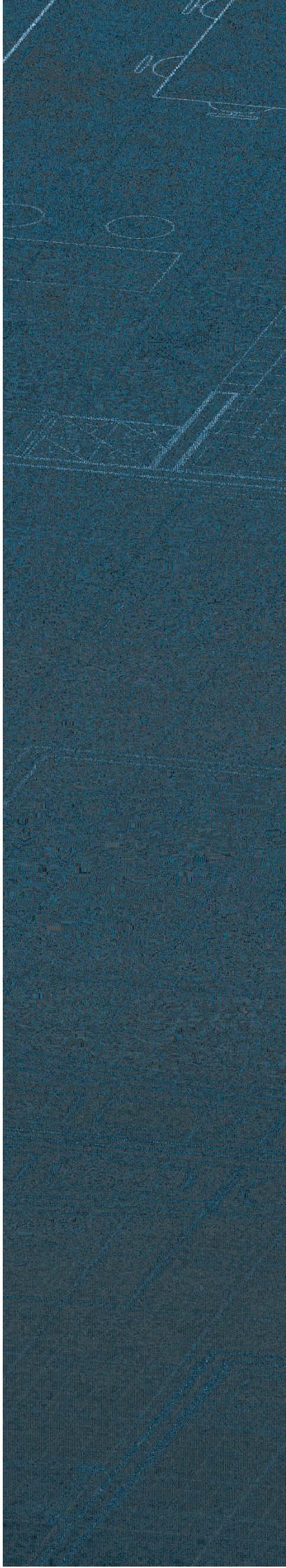
The Coal Authority

Consultants

Coal Mining Report

302939-00 Lvs - Site 3
West Yorkshire

Date of enquiry:	**8 January 2025**
Date enquiry received:	**8 January 2025**
Issue date:	**8 January 2025**
Our reference:	**51003471878001**
Your reference:	**GS-TSV-SMY-K9K-4C8**



Consultants

Coal Mining Report

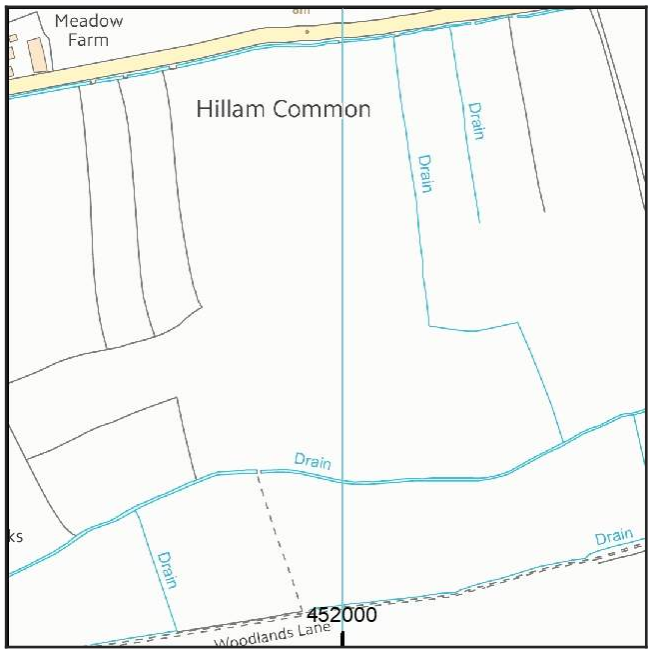
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

302939-00 Lvs - Site 3
West Yorkshire



Approximate position of property

Map data

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
None.

Spine roadways at shallow depth
No spine roadway recorded at shallow depth.

Mine entries
None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers
None available.

Outcrops
No outcrops recorded.

Geological faults, fissures and breaklines
No faults, fissures or breaklines recorded.

Opencast mines
None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips
None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
There are 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where a notice to withdraw support was given in 1977.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is in an area where a relevant notice (or notices) dated 1977 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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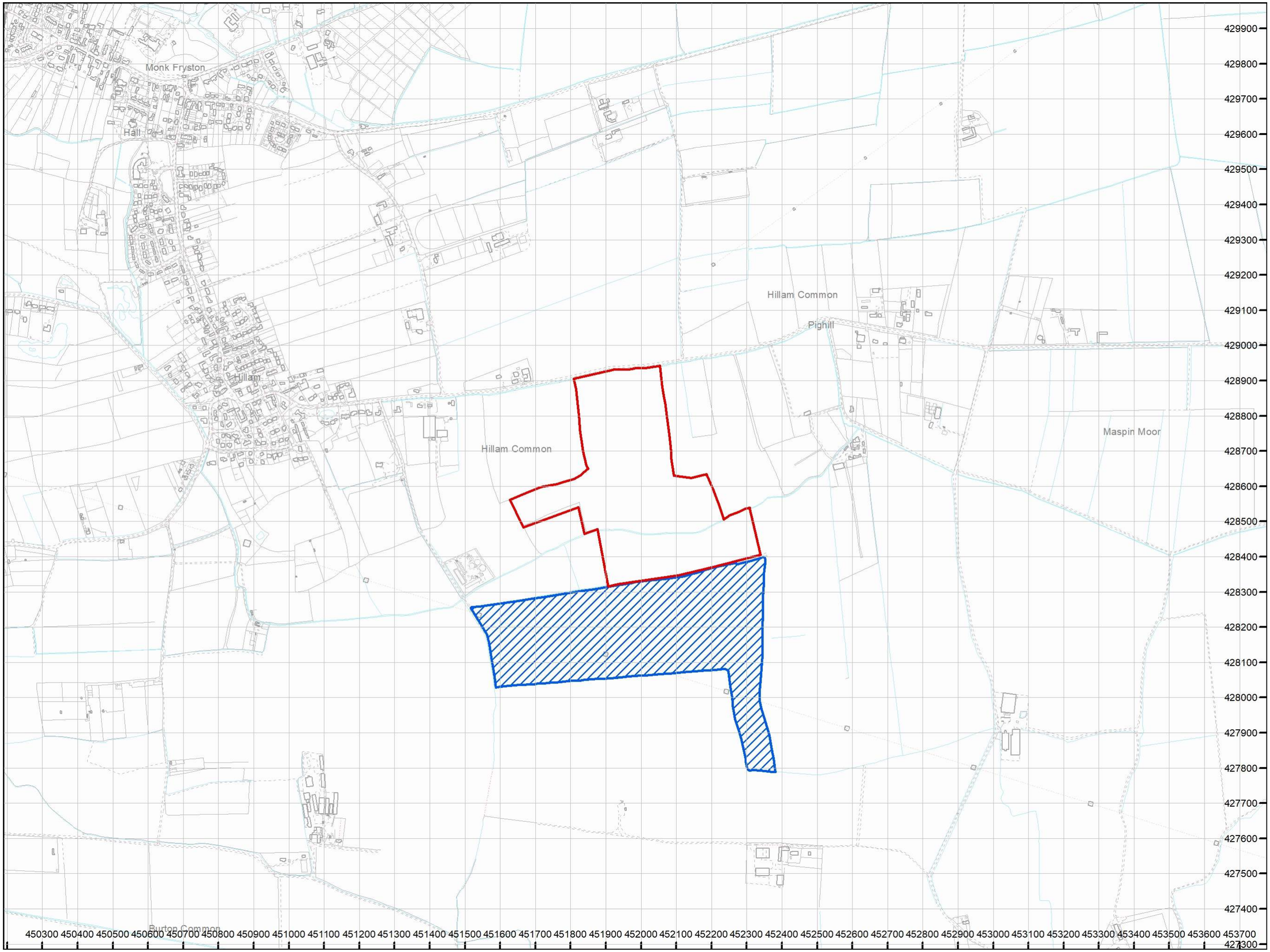
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Coal claim



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

C.4. Site Walkover Photos

Photo location IDs

Location ID	Photo
W12	

Location ID	Photo
W13	

Annex D Solar Development Site 4 Site Information

D.1. Groundsure Enviro and Geo Insight Reports

Groundsure
LOCATION INTELLIGENCE

Enviro
Insight

302939-00 LVS - Site 4

Order Details

Date: 09/01/2025

Your ref: 302939-00 LVS Site 4

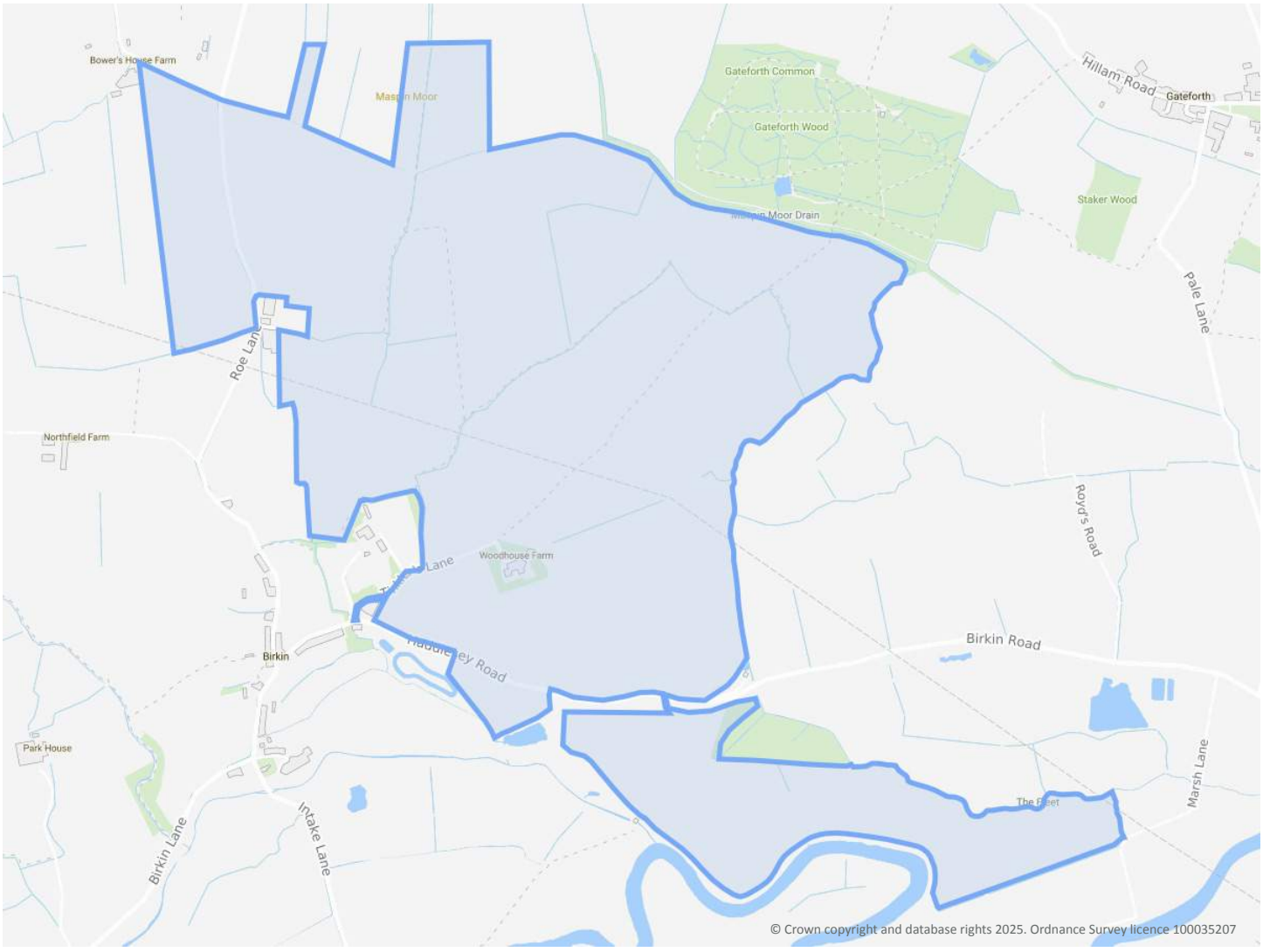
Our Ref: GS-OGH-PKF-21M-YLB

Site Details

Location: 453957 427590

Area: 336.78 ha

Authority: The North Yorkshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 6 >

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	5	1	1	5	-
12 >	1.2 >	Historical tanks >	0	0	0	1	-
12	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
13	1.5	Historical garages	0	0	0	0	-
13	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
14 >	2.1 >	Historical industrial land uses >	8	1	3	8	-
15 >	2.2 >	Historical tanks >	0	0	0	1	-
16	2.3	Historical energy features	0	0	0	0	-
16	2.4	Historical petrol stations	0	0	0	0	-
16	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
17	3.1	Active or recent landfill	0	0	0	0	-
17	3.2	Historical landfill (BGS records)	0	0	0	0	-
18	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
18	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
18	3.5	Historical waste sites	0	0	0	0	-
18	3.6	Licensed waste sites	0	0	0	0	-
18 >	3.7 >	Waste exemptions >	30	25	14	15	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	4.1 >	Recent industrial land uses >	4	6	7	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-

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

Page	Section	**Geology (basic) >**					
32 >	**5.1 >**	**Superficial geology (625k) >**	Identified (within 500m)				
32 >	**5.2 >**	**Bedrock geology (625k) >**	Identified (within 500m)				

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
33 >	**6.1 >**	**Superficial aquifer >**	Identified (within 500m)				
35 >	**6.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
37 >	**6.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
42 >	**6.4 >**	**Groundwater vulnerability- soluble rock risk >**	Identified (within 0m)				
43	6.5	Groundwater vulnerability- local information	None (within 0m)				
44 >	**6.6 >**	**Groundwater abstractions >**	8	0	0	0	32
54 >	**6.7 >**	**Surface water abstractions >**	5	2	5	12	34
66	6.8	Potable abstractions	0	0	0	0	0
67 >	**6.9 >**	**Source Protection Zones >**	0	0	0	1	-

67	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
68 >	7.1 >	Water Network (OS MasterMap) >	68	50	128	-	-
88 >	7.2 >	Surface water features >	1	29	64	-	-
88 >	7.3 >	WFD Surface water body catchments >	2	-	-	-	-
88 >	7.4 >	WFD Surface water bodies >	1	1	0	-	-
89 >	7.5 >	WFD Groundwater bodies >	2	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
90 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
91 >	8.2 >	Historical Flood Events >	32	17	33	-	-
96 >	8.3 >	Flood Defences >	1	5	3	-	-
96 >	8.4 >	Areas Benefiting from Flood Defences >	2	0	0	-	-
97 >	8.5 >	Flood Storage Areas >	1	0	1	-	-
98 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
99 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
100 >	9.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
102 >	10.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
103	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
104	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
104	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
104	11.4	Special Protection Areas (SPA)	0	0	0	0	0
104	11.5	National Nature Reserves (NNR)	0	0	0	0	0
105	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
105	11.7	Designated Ancient Woodland	0	0	0	0	0
105	11.8	Biosphere Reserves	0	0	0	0	0
105	11.9	Forest Parks	0	0	0	0	0

106	11.10	Marine Conservation Zones	0	0	0	0	0
106 >	11.11 >	Green Belt >	1	0	0	0	0
106	11.12	Proposed Ramsar sites	0	0	0	0	0
106	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
107	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
107	11.15	Nitrate Sensitive Areas	0	0	0	0	0
107 >	11.16 >	Nitrate Vulnerable Zones >	4	0	1	1	8
109 >	11.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
110	11.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
111	12.1	World Heritage Sites	0	0	0	-	-
112	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
112	12.3	National Parks	0	0	0	-	-
112 >	12.4 >	Listed Buildings >	0	0	1	-	-
113	12.5	Conservation Areas	0	0	0	-	-
113	12.6	Scheduled Ancient Monuments	0	0	0	-	-
113	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
114 >	13.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
115	13.2	Open Access Land	0	0	0	-	-
116 >	13.3 >	Tree Felling Licences >	1	1	1	-	-
116 >	13.4 >	Environmental Stewardship Schemes >	9	2	2	-	-
117 >	13.5 >	Countryside Stewardship Schemes >	4	1	8	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
118 >	14.1 >	Priority Habitat Inventory >	5	5	12	-	-
119 >	14.2 >	Habitat Networks >	1	0	1	-	-
120	14.3	Open Mosaic Habitat	0	0	0	-	-
120	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 336.78ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 336.78ha

Recent site history - 2012 aerial photograph

Capture Date: 26/03/2012

Site Area: 336.78ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

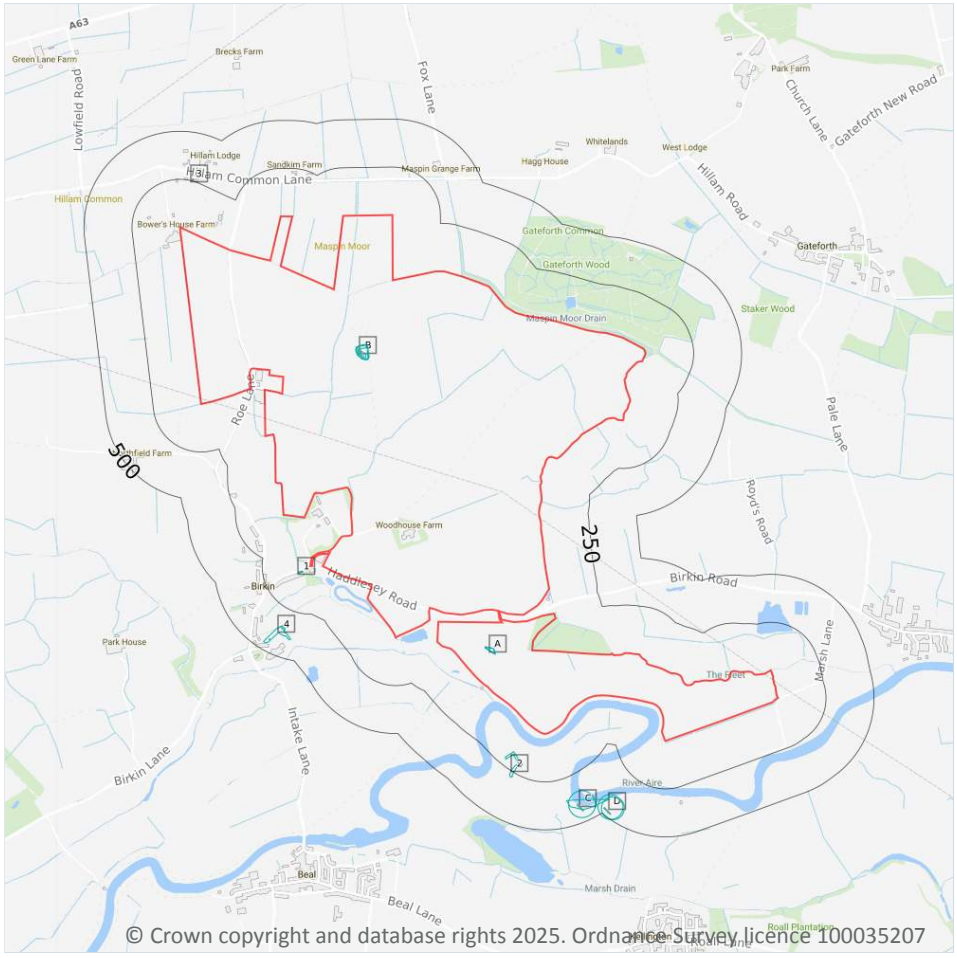
Site Area: 336.78ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 336.78ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	12

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 11 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Pit**	**1950 - 1958**	**1485952**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Pit**	**1908**	**1490959**
B	**On site**	**Unspecified Ground Workings**	**1950**	**1501333**
B	**On site**	**Unspecified Ground Workings**	**1958**	**1509978**
B	**On site**	**Unspecified Ground Workings**	**1908**	**1577591**
1	49m SW	Smithy	1908 - 1950	1487034
2	162m S	Unspecified Heap	1908	1579102
C	340m SE	Unspecified Pit	1968 - 1987	1563125
4	343m SW	Unspecified Ground Workings	1908	1503270
C	364m S	Unspecified Pit	1938	1555584
D	383m SE	Unspecified Pit	1950	1518491
D	385m SE	Unspecified Pit	1958	1534882

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**1**

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 11 >**

ID	Location	Land use	Dates present	Group ID
3	254m NW	Unspecified Tank	1995	241371

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.

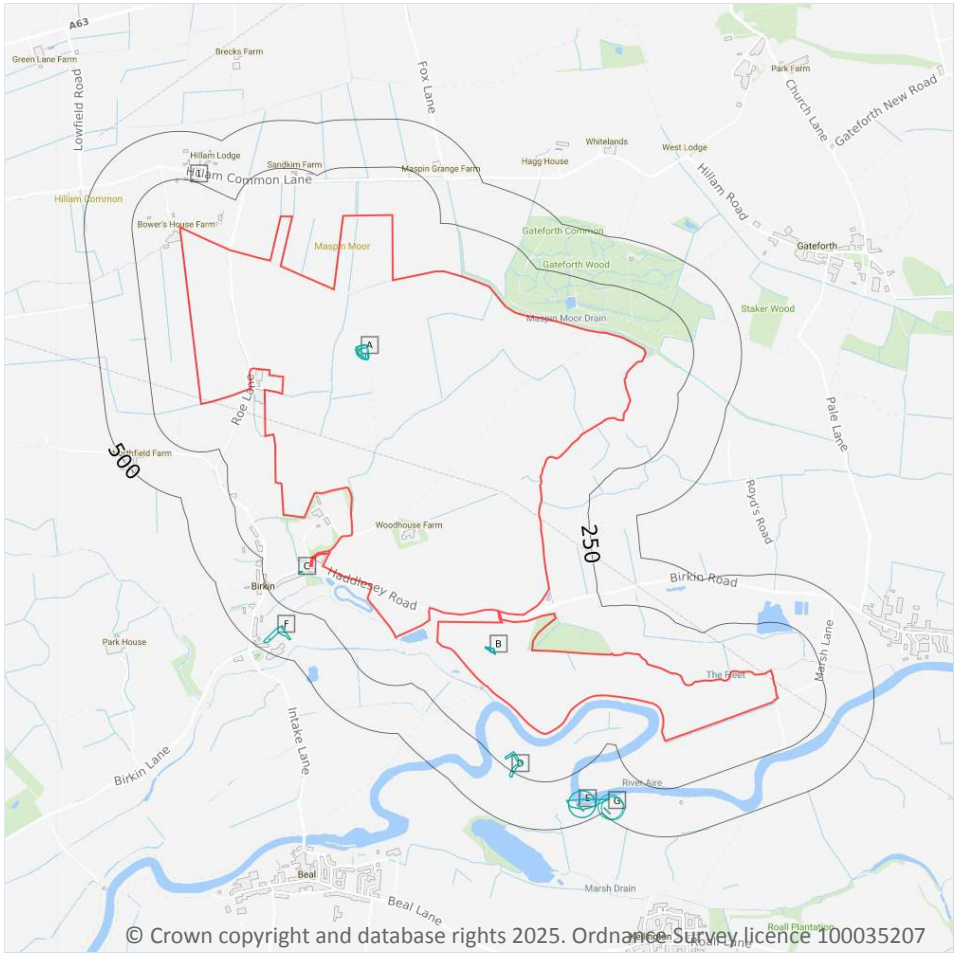
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	20

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 14 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Ground Workings**	**1958**	**1509978**
A	**On site**	**Unspecified Ground Workings**	**1908**	**1577591**
A	**On site**	**Unspecified Ground Workings**	**1950**	**1501333**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Ground Workings**	**1908**	**1577591**
B	**On site**	**Unspecified Pit**	**1958**	**1485952**
B	**On site**	**Unspecified Pit**	**1908**	**1490959**
B	**On site**	**Unspecified Pit**	**1950**	**1485952**
B	**On site**	**Unspecified Pit**	**1908**	**1490959**
C	49m SW	Smithy	1908	1487034
C	51m SW	Smithy	1950	1487034
D	162m S	Unspecified Heap	1908	1579102
D	162m S	Unspecified Heap	1908	1579102
E	340m SE	Unspecified Pit	1987	1563125
E	340m SE	Unspecified Pit	1968	1563125
F	343m SW	Unspecified Ground Workings	1908	1503270
F	343m SW	Unspecified Ground Workings	1908	1503270
E	364m S	Unspecified Pit	1938	1555584
E	364m S	Unspecified Pit	1938	1555584
G	383m SE	Unspecified Pit	1950	1518491
G	385m SE	Unspecified Pit	1958	1534882

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**1**

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 14 >**

ID	Location	Land Use	Date	Group ID
1	254m NW	Unspecified Tank	1995	241371

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.

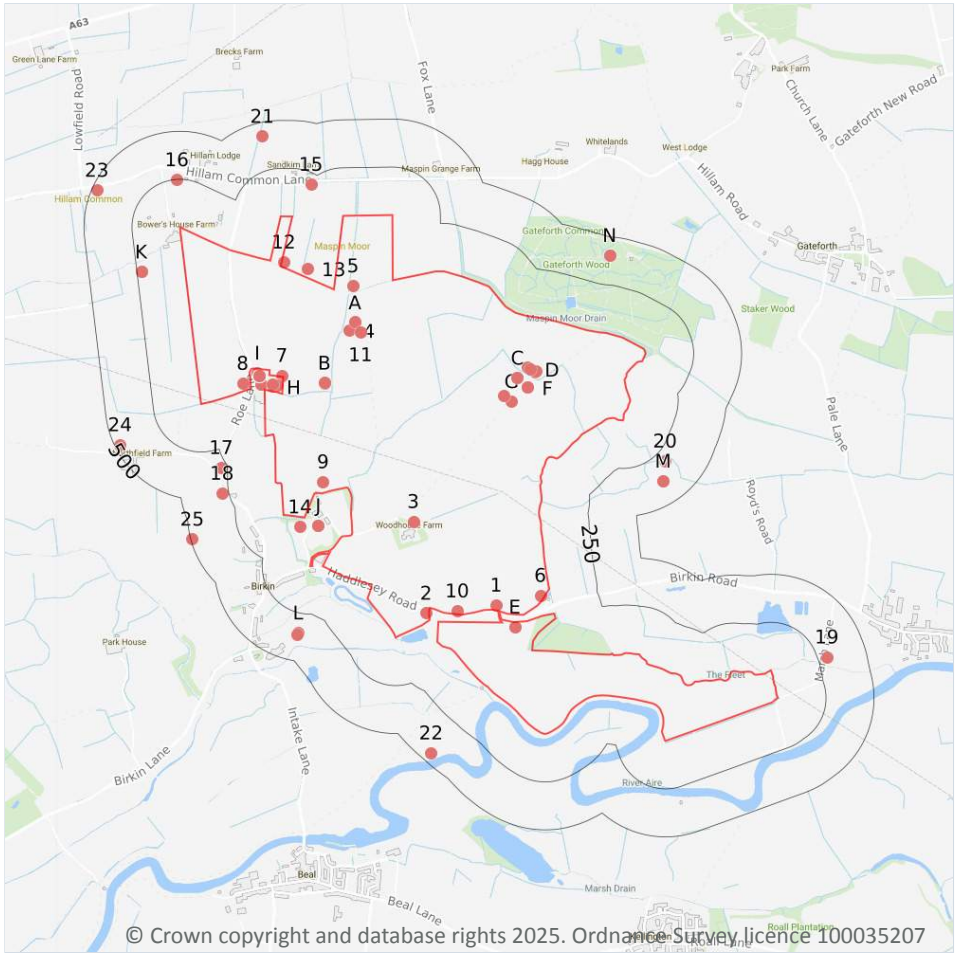
2.5 Historical garages

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



3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	84

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

Features are displayed on the Waste and landfill map on **page 17 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**-**	**WEX341315**	**Storing waste exemption**	**On a farm**	**Storage of sludge**

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	-	WEX373836	Storing waste exemption	On a farm	Storage of sludge
3	On site	-	WEX373837	Storing waste exemption	On a farm	Storage of sludge
4	On site	-	WEX373744	Storing waste exemption	On a farm	Storage of sludge
5	On site	-	WEX341322	Storing waste exemption	On a farm	Storage of sludge
6	On site	-	WEX358049	Storing waste exemption	On a farm	Storage of sludge
7	On site	-	WEX396944	Disposing of waste exemption	On a farm	Burning waste in the open
8	On site	-	WEX221385	Storing waste exemption	On a farm	Storage of sludge
9	On site	-	WEX221391	Storing waste exemption	On a farm	Storage of sludge
10	On site	-	WEX242350	Storing waste exemption	On a farm	Storage of sludge
11	On site	-	WEX246083	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX289863	Storing waste exemption	On a farm	Storage of sludge
A	On site	Hartleys, Thorganby, York, Yo19 6dj	WEX179672	Storing waste exemption	On a farm	Storage of sludge
B	On site	-	WEX373745	Storing waste exemption	On a farm	Storage of sludge
B	On site	Hartleys, Thorganby, York, Yo19 6dj	WEX179674	Storing waste exemption	On a farm	Storage of sludge
C	On site	-	WEX341328	Storing waste exemption	On a farm	Storage of sludge
C	On site	Roth Hill Lane, Thorganby, York, Yo19 6dj	WEX148072	Storing waste exemption	On a farm	Storage of sludge
C	On site	-	WEX259234	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
D	**On site**	**-**	**WEX341332**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
D	**On site**	**-**	**WEX356382**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
D	**On site**	**Hartleys, Thorganby, York, Yo19 6dj**	**WEX179671**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
D	**On site**	**Roth Hill Lane, Thorganby, York, Yo19 6dj**	**WEX148078**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
D	**On site**	**-**	**WEX245963**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
E	**On site**	**-**	**WEX341474**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
E	**On site**	**Hartleys, Thorganby, York, Yo19 6dj**	**WEX179668**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
F	**On site**	**-**	**WEX349112**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
F	**On site**	**Roth Hill Lane, Thorganby, York, Yo19 6dj**	**WEX148073**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
F	**On site**	**-**	**WEX259235**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
G	**On site**	**-**	**WEX356380**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
G	**On site**	**-**	**WEX356381**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
12	11m NW	Park House Farm, Birkin Lane, Birkin, Knottingley, Wf11 9ly	WEX160785	Storing waste exemption	On a farm	Storage of sludge
H	21m W	-	WEX225919	Storing waste exemption	On a farm	Storage of sludge
I	26m NW	-	WEX226397	Storing waste exemption	On a farm	Storage of waste in a secure place
H	27m W	-	WEX289864	Storing waste exemption	On a farm	Storage of sludge
H	27m W	-	WEX246113	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
I	30m W	-	WEX393952	Using waste exemption	On a farm	Use of waste in construction
I	30m W	-	WEX393965	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
I	30m W	-	WEX393965	Using waste exemption	On a farm	Use of mulch
I	30m W	-	WEX393965	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
I	30m W	-	WEX393965	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
I	30m W	-	WEX393965	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
I	30m W	-	WEX119765	Using waste exemption	On a farm	Use of waste in construction
I	30m W	Situated Adjacent To Roe Lane, The Site Doesn't Have It's Own Postcode. It Is The Site Of The Farms Grain And Potato Storage Operations And Is Clearly Signposted As 'Viner Station' And The Front.	WEX262156	Using waste exemption	On a farm	Use of waste in construction
H	32m W	-	WEX225700	Storing waste exemption	On a farm	Storage of sludge
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

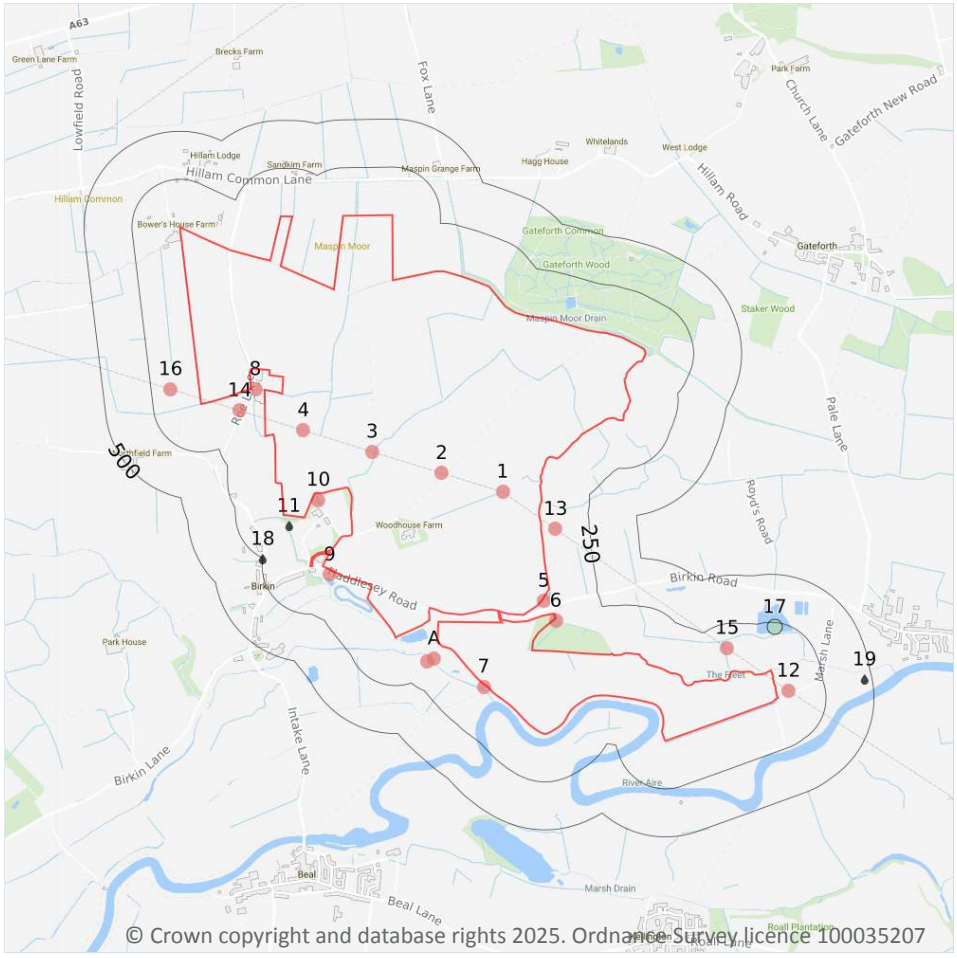
ID	Location	Site	Reference	Category	Sub-Category	Description
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Using waste exemption	Agricultural waste only	Incorporation of ash into soil
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Treating waste exemption	Agricultural waste only	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
I	40m NW	Vining Station Roe Lane Birkin Wf11 9lr	EPR/ZE5389BR/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
13	42m NW	-	WEX301163	Storing waste exemption	On a farm	Storage of sludge
14	55m SW	Grass Paddock Surrounded By Trees Neighbouring The Farmyard	WEX267297	Disposing of waste exemption	On a farm	Burning waste in the open
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Storing waste exemption	On a farm	Storage of waste in secure containers
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Using waste exemption	On a farm	Incorporation of ash into soil

ID	Location	Site	Reference	Category	Sub-Category	Description
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Disposing of waste exemption	On a farm	Burning waste in the open
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
J	85m SW	Birkin Farm Office, Birkin, Knottingley, Leeds, Wf11 9lt	WEX031046	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
15	191m NW	-	WEX240360	Storing waste exemption	On a farm	Storage of sludge
K	229m NW	-	WEX395253	Storing waste exemption	On a farm	Storage of sludge
K	229m NW	-	WEX257426	Storing waste exemption	On a farm	Storage of sludge
16	245m NW	Honeypot Field, Hillam Common Lane, Monk Fryston, Leeds, Ls255hu	WEX084396	Storing waste exemption	On a farm	Storage of waste in a secure place
17	283m W	Manor Farm, Manor Road, Beal, Goole, Dn14 0st	WEX116334	Storing waste exemption	On a farm	Storage of sludge
18	287m W	-	WEX355967	Storing waste exemption	On a farm	Storage of sludge
19	295m SE	Smeathalls Farm, Birkin Lane, Birkin, Knottingley, Wf11 9lz	WEX107122	Storing waste exemption	On a farm	Storage of sludge
20	308m E	-	WEX322880	Storing waste exemption	On a farm	Storage of sludge
L	357m SW	Manor Farm, Manor Road, Beal, Goole, Dn14 0st	WEX116128	Storing waste exemption	On a farm	Storage of sludge
L	365m SW	-	WEX257613	Storing waste exemption	On a farm	Storage of sludge
M	383m E	-	WEX386949	Storing waste exemption	On a farm	Storage of sludge
M	383m E	-	WEX215137	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
N	400m NE	Gateforth Wood Hillam Lane North Yorkshire Yo89lq	EPR/TF0435KK/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
N	400m NE	Gateforth Wood Hillam Lane North Yorkshire Yo89lq	EPR/TF0435KK/A001	Using waste exemption	Non-agricultural waste only	Use of waste for a specified purpose
21	425m NW	Manor Farm Manor Road Goole North Humberside Dn14 0st	EPR/MF0638VJ/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
22	454m S	-	WEX369120	Storing waste exemption	On a farm	Storage of sludge
23	473m NW	Manor Farm, Manor Road, Beal, Goole, Dn14 0st	WEX158312	Storing waste exemption	On a farm	Storage of sludge
24	475m W	-	WEX389142	Storing waste exemption	On a farm	Storage of sludge
25	494m W	Manor Farm Manor Road Goole North Humberside Dn14 0st	EPR/FH0819JF/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	17

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
1	**On site**	**Pylon**	**North Yorkshire, WF11**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Pylon**	**North Yorkshire, WF11**	**Electrical Features**	**Infrastructure and Facilities**
3	**On site**	**Pylon**	**North Yorkshire, WF11**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
4	**On site**	**Pylon**	**North Yorkshire, WF11**	**Electrical Features**	**Infrastructure and Facilities**
5	10m SE	Pumping Station	North Yorkshire, YO8	Water Pumping Stations	Industrial Features
6	10m SE	Electricity Poles	North Yorkshire, YO8	Electrical Features	Infrastructure and Facilities
7	11m S	Pumping Station	North Yorkshire, WF11	Water Pumping Stations	Industrial Features
8	22m W	Electricity Sub Station	North Yorkshire, WF11	Electrical Features	Infrastructure and Facilities
9	24m SW	K V C Kleenacar Ltd	Haddlesey Road, Birkin, North Yorkshire, WF11 9LS	Vehicle Cleaning Services	Personal, Consumer and Other Services
10	32m SW	Austops	Unit 1 Barkhouse Farm, Haddlesey Road, Birkin, Selby, North Yorkshire, WF11 9LU	Glass Fibre Services	Industrial Products
12	65m SE	Pylon	North Yorkshire, YO8	Electrical Features	Infrastructure and Facilities
13	75m SE	Pylon	North Yorkshire, YO8	Electrical Features	Infrastructure and Facilities
A	77m S	Electricity Poles	North Yorkshire, WF11	Electrical Features	Infrastructure and Facilities
14	87m W	Pylon	North Yorkshire, WF11	Electrical Features	Infrastructure and Facilities
A	113m S	Electricity Poles	North Yorkshire, WF11	Electrical Features	Infrastructure and Facilities
15	124m SE	Pylon	North Yorkshire, YO8	Electrical Features	Infrastructure and Facilities
16	149m W	Pylon	North Yorkshire, WF11	Electrical Features	Infrastructure and Facilities

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	0

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.

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	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	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	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	3

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

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

ID	Location	Address	Details	
11	55m SW	BIRKINHOUSEFARM,BIRKIN,KNOTTINGLEY,SELBY,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: C5652 Permit Version: 1 Receiving Water: LAND ADJ SPRAY CHEMICAL STORE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 18/07/1989 Effective Date: 18/07/1989 Revocation Date: 01/12/2005
18	250m SW	16ROELANE,BIRKIN,KNOTTINGLEY,WESTYORKSHIRE,WF11 9LP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRBB3190DV Permit Version: 1 Receiving Water: TRIBUTARY OF RIVER AIRE	Status: NEW ISSUED UNDER EPR 2010 Issue date: 21/07/2014 Effective Date: 21/07/2014 Revocation Date: -
19	461m SE	WESTHADDLESEYNO2PUBLICSEWER,WESTHADDLESEY,NEARSELBY,NORTHYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA7440 Permit Version: 1 Receiving Water: FLEET DRAIN	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 17/09/1998 Effective Date: 17/09/1998 Revocation Date: 23/07/2001

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

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

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

ID	Location	Details	
17	226m SE	Incident Date: 13/07/2007 Incident Identification: 513862 Pollutant: Agricultural Materials and Wastes Pollutant Description: Slurry and Dilute Slurry	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**LDE-CLAY**	**LACUSTRINE DEPOSITS (UNDIFFERENTIATED)**	**CLAY**
On site	**ALV-CLSS**	**ALLUVIUM**	**CLAY, SILT AND SAND**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

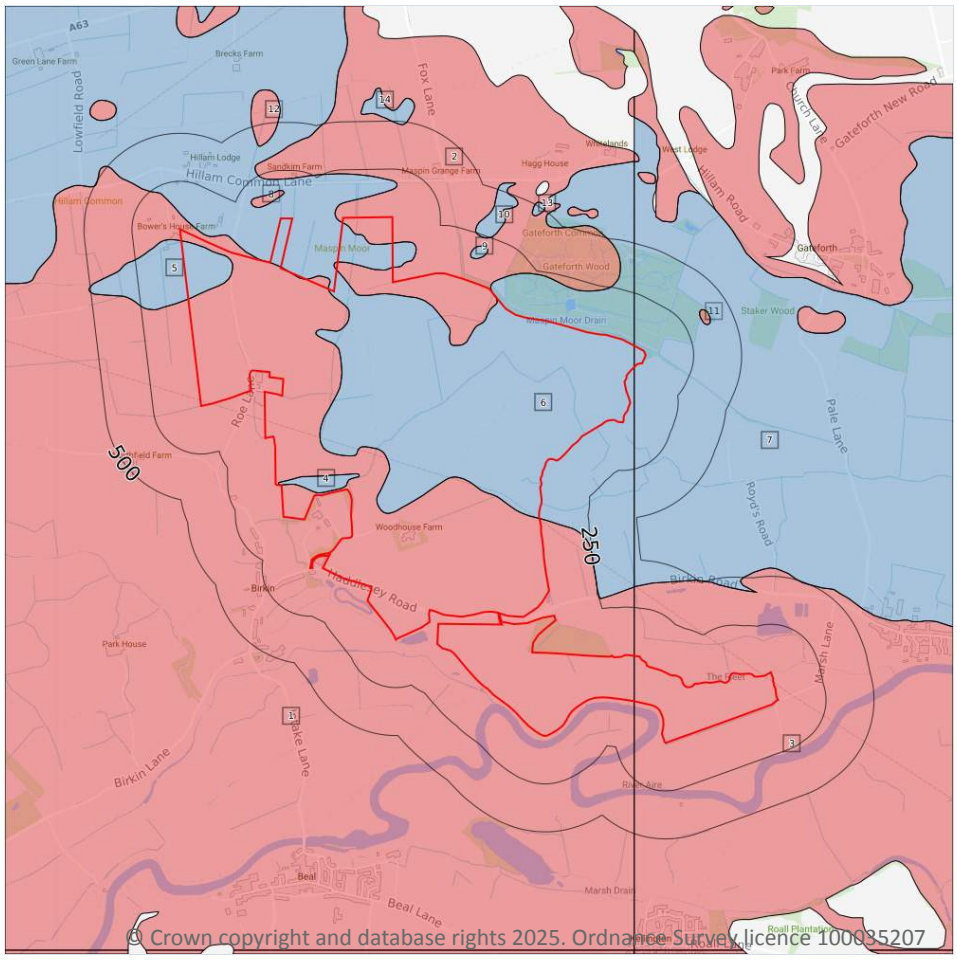
Records within 500m	2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**PUND-MDSS**	**PERMIAN ROCKS (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE AND SANDSTONE**
On site	**TRIA-SCON**	**TRIASSIC ROCKS (UNDIFFERENTIATED)**	**SANDSTONE AND CONGLOMERATE, INTERBEDDED**

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	14

Aquifer status of groundwater held within superficial geology.

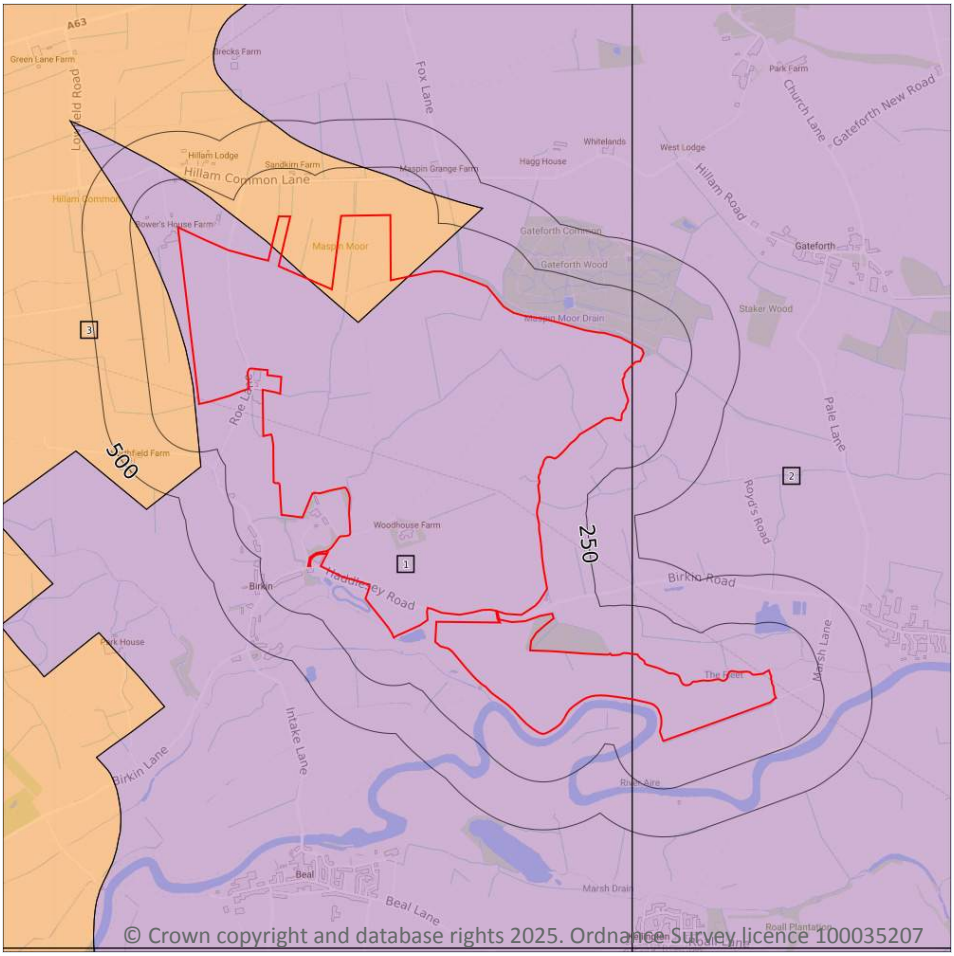
Features are displayed on the Hydrogeology map on **page 33 >**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
4	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
5	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
6	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
7	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
8	97m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	120m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	238m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	342m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
12	391m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
13	447m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
14	484m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

6.2 Bedrock aquifer

Records within 500m	3

Aquifer status of groundwater held within bedrock geology.

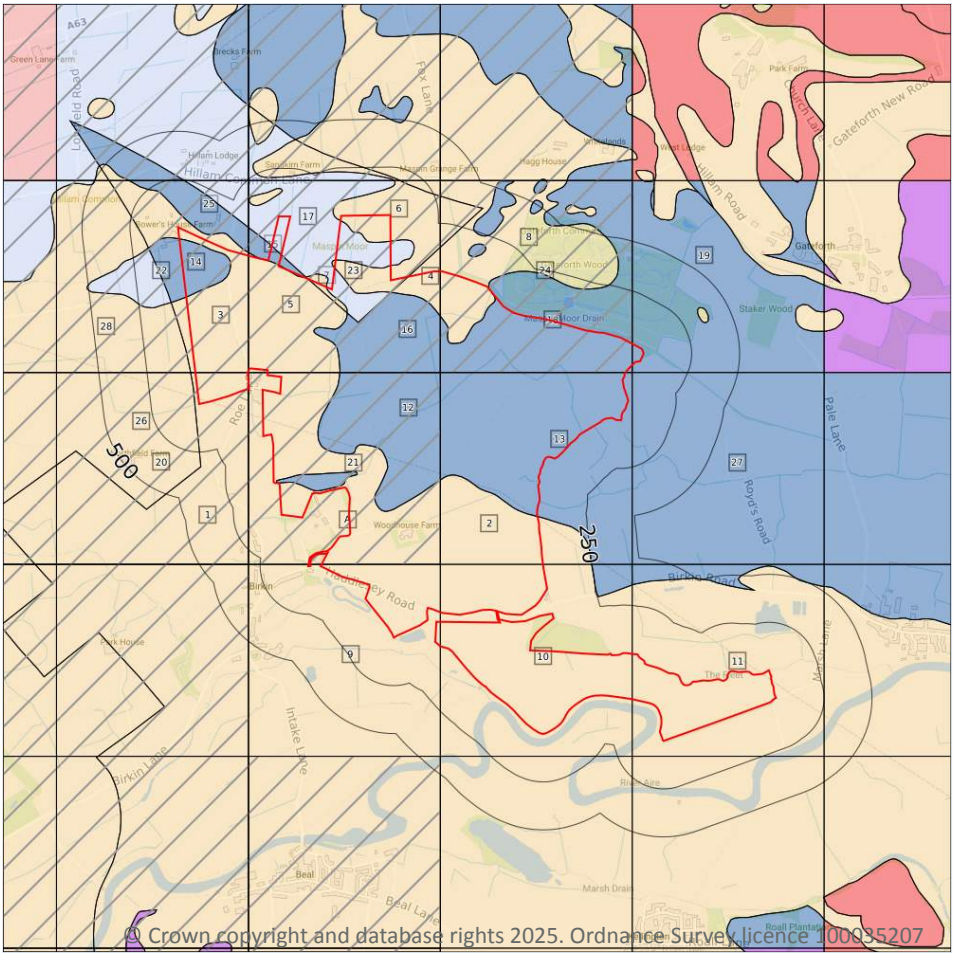
Features are displayed on the Bedrock aquifer map on **page 35 >**

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

ID	Location	Designation	Description
3	**On site**	**Secondary B**	**Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons 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



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	25

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 37 >**

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

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
A	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
A	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
25	16m NW	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
26	20m W	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
27	21m E	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
28	25m W	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	**5**

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
20	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**89.0%**
21	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**15.0%**
22	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
23	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**93.0%**
24	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**23.0%**

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

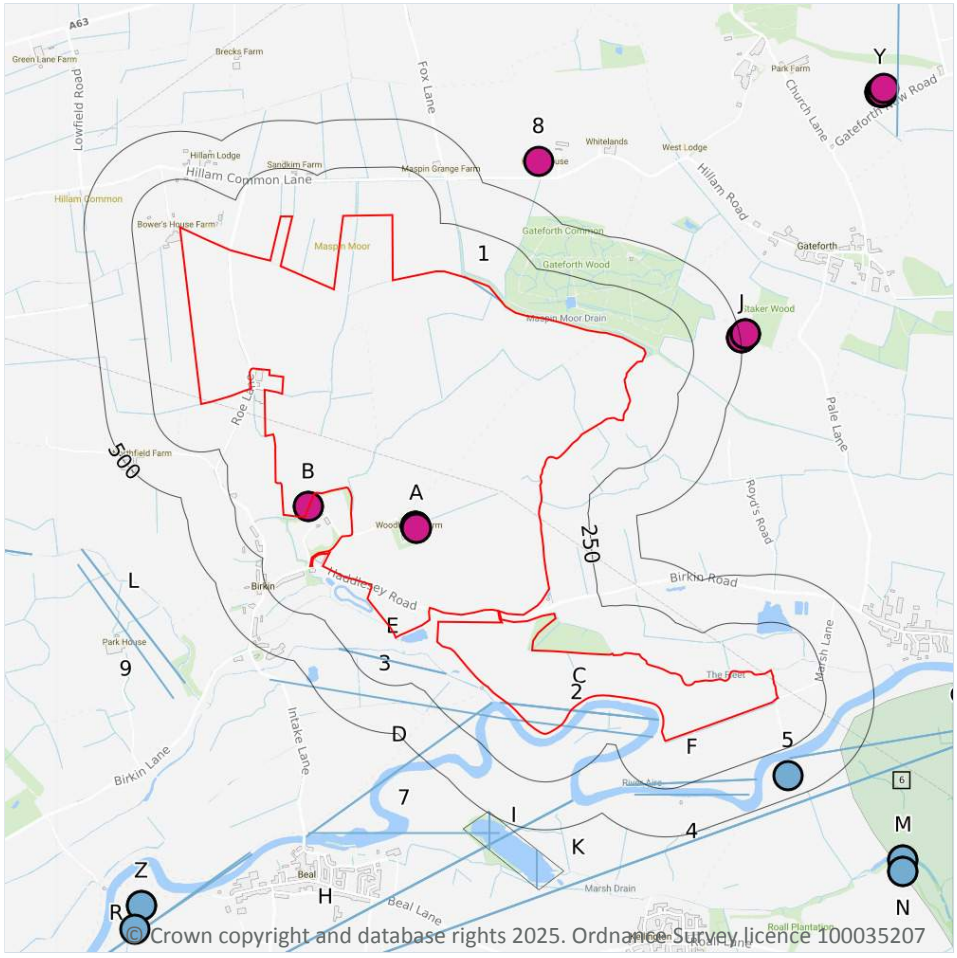
6.5 Groundwater vulnerability- local information

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



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Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	40

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 44 >**

ID	Location	Details	
A	On site	Status: Active Licence No: 2/27/18/151/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: Hartleys Farming Ltd Easting: 453864 Northing: 427189	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: NPS/WR/029545 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: J E HARTLEY LTD C/O WILLIAM THOMAS HARTLEY Easting: 453860 Northing: 427200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/18/101 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 13/01/1998 Expiry Date: 30/12/2007 Issue No: 100 Version Start Date: 13/01/1998 Version End Date: -

ID	Location	Details	
A	On site	Status: Historical Licence No: 2/27/18/151 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453860 Northing: 427200	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 21/01/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
A	On site	Status: Historical Licence No: 2/27/18/151 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BIRKIN - KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453864 Northing: 427189	Annual Volume (m^3): 54623 Max Daily Volume (m^3): 1295 Original Application No: - Original Start Date: 21/01/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
B	On site	Status: Historical Licence No: 2/27/18/030 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: J E HARTLEY LTD C/O WILLIAM THOMAS HARTLEY Easting: 453300 Northing: 427300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1966 Version End Date: -
B	On site	Status: Historical Licence No: 2/27/18/030 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - BIRKIN KNOTTINGLEY Data Type: Point Name: J E HARTLEY LTD Easting: 453300 Northing: 427300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1966 Version End Date: -

ID	Location	Details	
J	507m E	Status: Active Licence No: 2/27/18/152/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 455560 Northing: 428180	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: NPS/WR/037795 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -
J	507m E	Status: Active Licence No: 2/27/18/152/R01 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 455560 Northing: 428180	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: NPS/WR/037795 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -
J	507m E	Status: Historical Licence No: 2/27/18/152 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 455560 Northing: 428180	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 25/03/2008 Expiry Date: 31/03/2015 Issue No: 6 Version Start Date: 04/11/2013 Version End Date: -
J	530m E	Status: Historical Licence No: 2/27/18/126 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-GATEFORTH Data Type: Point Name: H HEY & SONS Easting: 455580 Northing: 428200	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 09/06/2006 Expiry Date: 30/09/2007 Issue No: 1 Version Start Date: 09/06/2006 Version End Date: -

ID	Location	Details	
J	530m E	Status: Historical Licence No: 2/27/18/126 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: H HEY & SONS Easting: 455580 Northing: 428200	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 09/06/2006 Expiry Date: 30/09/2007 Issue No: 1 Version Start Date: 09/06/2006 Version End Date: -
J	530m E	Status: Historical Licence No: 2/27/18/152 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 455580 Northing: 428200	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 25/03/2008 Expiry Date: 31/03/2015 Issue No: 4 Version Start Date: 26/07/2010 Version End Date: -
8	701m N	Status: Historical Licence No: 2/27/18/103 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE- SHERWOOD SANDSTONE - HAGGS HOUSE FARM Data Type: Point Name: BAILEY-HAGUE Easting: 454500 Northing: 429100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/03/1998 Expiry Date: - Issue No: 101 Version Start Date: 09/05/2000 Version End Date: -
-	1233m NW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: -- BOREHOLE Data Type: Point Name: HILLAM GARDENS LIMITED Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
-	1233m NW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -

ID	Location	Details	
-	1233m NW	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 81.828 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
-	1600m S	Status: Active Licence No: 2/27/18/142/R01 Details: Vegetable Washing Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-KELLINGTON-GOOLE Data Type: Point Name: MARK H POSKITT LTD Easting: 455101 Northing: 424481	Annual Volume (m^3): 70000 Max Daily Volume (m^3): 300 Original Application No: NPS/WR/017523 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1600m S	Status: Historical Licence No: 2/27/18/142 Details: Vegetable Washing Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-KELLINGTON-GOOLE Data Type: Point Name: MARK H POSKITT LTD Easting: 455101 Northing: 424481	Annual Volume (m^3): 70000 Max Daily Volume (m^3): 300 Original Application No: - Original Start Date: 06/02/2007 Expiry Date: 31/03/2015 Issue No: 5 Version Start Date: 19/12/2012 Version End Date: -
-	1601m S	Status: Historical Licence No: 2/27/18/142 Details: Vegetable Washing Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-KELLINGTON-GOOLE Data Type: Point Name: MARK H POSKITT LTD Easting: 455100 Northing: 424480	Annual Volume (m^3): 70000 Max Daily Volume (m^3): 300 Original Application No: - Original Start Date: 06/02/2007 Expiry Date: 31/03/2015 Issue No: 5 Version Start Date: 19/12/2012 Version End Date: -

ID	Location	Details	
-	1640m S	Status: Active Licence No: 2/27/18/053 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KELLINGTON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 453830 Northing: 424632	Annual Volume (m^3): 94250 Max Daily Volume (m^3): 900 Original Application No: NPS/WR/037781 Original Start Date: 15/04/1977 Expiry Date: - Issue No: 112 Version Start Date: 15/12/2022 Version End Date: -
-	1640m S	Status: Active Licence No: 2/27/18/053 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KELLINGTON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 453830 Northing: 424632	Annual Volume (m^3): 94250 Max Daily Volume (m^3): 900 Original Application No: NPS/WR/037781 Original Start Date: 15/04/1977 Expiry Date: - Issue No: 112 Version Start Date: 15/12/2022 Version End Date: -
-	1642m S	Status: Historical Licence No: 2/27/18/053 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: M H POSKITT LIMITED Easting: 453830 Northing: 424630	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 02/06/1999 Version End Date: -
-	1642m S	Status: Historical Licence No: 2/27/18/053 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KELLINGTON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 453830 Northing: 424630	Annual Volume (m^3): 94250 Max Daily Volume (m^3): 655 Original Application No: - Original Start Date: 15/04/1977 Expiry Date: - Issue No: 109 Version Start Date: 29/09/2017 Version End Date: -

ID	Location	Details	
-	1686m NW	Status: Active Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - MONK FRYSTON Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): 9953 Max Daily Volume (m^3): 27.27 Original Application No: 7111 Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2024 Version End Date: -
-	1686m NW	Status: Historical Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1996 Version End Date: -
-	1717m N	Status: Active Licence No: 2/27/24/446/R01 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
-	1717m N	Status: Active Licence No: 2/27/24/446/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -

ID	Location	Details	
-	1717m N	Status: Historical Licence No: 2/27/24/446 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: J E HARTLEY LTD Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: - Original Start Date: 01/06/2005 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 30/06/2011 Version End Date: -
Y	1817m NE	Status: Historical Licence No: 2/27/18/099 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: H HEY & SONS Easting: 456280 Northing: 429460	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/10/1997 Expiry Date: 30/09/2007 Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
Y	1817m NE	Status: Historical Licence No: 2/27/18/099 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON SELBY Data Type: Point Name: H HEY & SONS Easting: 456280 Northing: 429460	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 22/10/1997 Expiry Date: 30/09/2007 Issue No: 102 Version Start Date: 09/06/2006 Version End Date: -
Y	1817m NE	Status: Historical Licence No: 2/27/18/099 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: H HEY & SONS Easting: 456280 Northing: 429460	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 22/10/1997 Expiry Date: 30/09/2007 Issue No: 102 Version Start Date: 09/06/2006 Version End Date: -

ID	Location	Details	
Y	1824m NE	Status: Active Licence No: 2/27/18/153/R01 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 456289 Northing: 429462	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2000 Original Application No: NPS/WR/032927 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 6 Version Start Date: 16/05/2023 Version End Date: -
Y	1824m NE	Status: Active Licence No: 2/27/18/153/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 456289 Northing: 429462	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2000 Original Application No: NPS/WR/032927 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 6 Version Start Date: 16/05/2023 Version End Date: -
Y	1824m NE	Status: Historical Licence No: 2/27/18/153/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456289 Northing: 429462	Annual Volume (m^3): 40000 Max Daily Volume (m^3): 1250 Original Application No: NPS/WR/037794 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -
Y	1824m NE	Status: Historical Licence No: 2/27/18/153/R01 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456289 Northing: 429462	Annual Volume (m^3): 40000 Max Daily Volume (m^3): 1250 Original Application No: NPS/WR/037794 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 15/12/2022 Version End Date: -

ID	Location	Details	
Y	1824m NE	Status: Historical Licence No: 2/27/18/153 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456289 Northing: 429462	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 25/03/2008 Expiry Date: 31/03/2015 Issue No: 7 Version Start Date: 04/11/2013 Version End Date: -
Y	1824m NE	Status: Historical Licence No: 2/27/18/153/R01 Details: Trickle Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - GATEFORTH Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456289 Northing: 429462	Annual Volume (m^3): 40000 Max Daily Volume (m^3): 1250 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 29/03/2021 Version End Date: -
Y	1845m NE	Status: Historical Licence No: 2/27/18/153 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456300 Northing: 429480	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 920 Original Application No: - Original Start Date: 25/03/2008 Expiry Date: 31/03/2015 Issue No: 5 Version Start Date: 29/07/2011 Version End Date: -

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

6.7 Surface water abstractions

Records within 2000m	**58**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 44 >**

ID	Location	Details	
1	On site	Status: Active Licence No: NE/027/0018/008 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: MASPIN MOOR DRAIN Data Type: Line Name: H HEY & SONS Easting: 454114 Northing: 428504	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 800 Original Application No: NPS/WR/005993 Original Start Date: 05/04/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 05/04/2011 Version End Date: -
2	On site	Status: Historical Licence No: 2/27/18/086 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: J E HARTLEY LTD Easting: 454300 Northing: 426200	Annual Volume (m^3): 59100 Max Daily Volume (m^3): 1440 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
C	On site	Status: Active Licence No: 2/27/18/129/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - BIRKIN HOLME - SELBY Data Type: Line Name: Hartleys Farming Ltd Easting: 454299 Northing: 426280	Annual Volume (m^3): 41400 Max Daily Volume (m^3): 1100 Original Application No: NPS/WR/029543 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
C	On site	Status: Historical Licence No: 2/27/18/129 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - BIRKIN HOLME - SELBY Data Type: Line Name: J E HARTLEY LTD Easting: 454310 Northing: 426280	Annual Volume (m^3): 41400 Max Daily Volume (m^3): 1100 Original Application No: - Original Start Date: 01/05/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
C	On site	Status: Historical Licence No: 2/27/18/129 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - BIRKIN HOLME - SELBY Data Type: Line Name: J E HARTLEY LTD Easting: 454299 Northing: 426280	Annual Volume (m^3): 41400 Max Daily Volume (m^3): 1100 Original Application No: - Original Start Date: 01/05/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -

ID	Location	Details	
D	45m S	Status: Active Licence No: 2/27/18/137/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: D A PLATT Easting: 453290 Northing: 425580	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: NPS/WR/017445 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
D	45m S	Status: Historical Licence No: 2/27/18/137 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: D A PLATT Easting: 453290 Northing: 425580	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
3	85m S	Status: Historical Licence No: 2/27/18/090 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD EYE DRAIN Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 453100 Northing: 426400	Annual Volume (m^3): 36980 Max Daily Volume (m^3): 727 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
E	107m S	Status: Active Licence No: 2/27/18/138/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD EYE DRAIN Data Type: Line Name: D A PLATT Easting: 453460 Northing: 426560	Annual Volume (m^3): 36980 Max Daily Volume (m^3): 727 Original Application No: NPS/WR/017444 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
E	107m S	Status: Historical Licence No: 2/27/18/138 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD EYE DRAIN Data Type: Line Name: D A PLATT Easting: 453460 Northing: 426560	Annual Volume (m^3): 36980 Max Daily Volume (m^3): 727 Original Application No: - Original Start Date: 30/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 30/01/2007 Version End Date: -

ID	Location	Details	
F	221m SE	Status: Active Licence No: 2/27/18/137/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGLEY Data Type: Line Name: D A PLATT Easting: 454960 Northing: 425850	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: NPS/WR/017445 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
F	221m SE	Status: Historical Licence No: 2/27/18/137 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGLEY Data Type: Line Name: D A PLATT Easting: 454960 Northing: 425850	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
4	280m SE	Status: Historical Licence No: 2/27/18/089 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 455000 Northing: 425800	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2181 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
G	304m SE	Status: Active Licence No: 2/27/18/137/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELINGLEY Data Type: Line Name: D A PLATT Easting: 455810 Northing: 425990	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: NPS/WR/017445 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
G	304m SE	Status: Historical Licence No: 2/27/18/137 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELINGLEY Data Type: Line Name: D A PLATT Easting: 455810 Northing: 425990	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -

ID	Location	Details	
H	374m S	Status: Active Licence No: 2/27/18/117/R01 Details: Trickle Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1800 Original Application No: NPS/WR/037256 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 22/06/2023 Version End Date: -
H	374m S	Status: Historical Licence No: 2/27/18/117/R01 Details: Trickle Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 1800 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 01/07/2021 Version End Date: -
H	374m S	Status: Historical Licence No: 2/27/18/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: M H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 900 Original Application No: - Original Start Date: 08/07/2002 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 08/07/2002 Version End Date: -
H	374m S	Status: Historical Licence No: 2/27/18/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 1800 Original Application No: - Original Start Date: 08/07/2002 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 19/08/2014 Version End Date: -
H	374m S	Status: Historical Licence No: 2/27/18/117/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 1800 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -

ID	Location	Details	
5	386m SE	Status: Historical Licence No: 2/27/18/089 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Point Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 455800 Northing: 425900	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2181 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
I	492m S	Status: Active Licence No: NE/027/0018/041 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: THE FIRS, KELLINGTON, YORK Data Type: Poly4 Name: MARK H POSKITT LTD Easting: 454242 Northing: 425713	Annual Volume (m^3): 66238 Max Daily Volume (m^3): 1400 Original Application No: NPS/WR/037059 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 16/02/2023 Version End Date: -
I	492m S	Status: Active Licence No: NE/027/0018/041 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: THE FIRS, KELLINGTON, YORK Data Type: Poly4 Name: MARK H POSKITT LTD Easting: 454242 Northing: 425713	Annual Volume (m^3): 66238 Max Daily Volume (m^3): 1400 Original Application No: NPS/WR/037059 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 16/02/2023 Version End Date: -
I	492m S	Status: Active Licence No: NE/027/0018/041 Details: Trickle Irrigation - Direct Direct Source: SURFACE WATER Point: THE FIRS, KELLINGTON, YORK Data Type: Poly4 Name: MARK H POSKITT LTD Easting: 454242 Northing: 425713	Annual Volume (m^3): 66238 Max Daily Volume (m^3): 1400 Original Application No: NPS/WR/037059 Original Start Date: 26/03/2021 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 16/02/2023 Version End Date: -
K	538m SE	Status: Active Licence No: 2/27/18/117/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE AT KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1800 Original Application No: NPS/WR/037256 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 22/06/2023 Version End Date: -

ID	Location	Details	
K	538m SE	Status: Active Licence No: 2/27/18/117/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER AIRE AT KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 1800 Original Application No: NPS/WR/037256 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 5 Version Start Date: 22/06/2023 Version End Date: -
K	538m SE	Status: Historical Licence No: 2/27/18/117/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE AT KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 1800 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 01/07/2021 Version End Date: -
K	538m SE	Status: Historical Licence No: 2/27/18/117/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER AIRE AT KELLINGTON Data Type: Line Name: MARK H POSKITT LTD Easting: 452100 Northing: 424400	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 1800 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 01/07/2021 Version End Date: -
7	565m S	Status: Historical Licence No: 2/27/18/089 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 453300 Northing: 425600	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2181 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
L	889m SW	Status: Active Licence No: 2/27/18/140/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: D A PLATT Easting: 452120 Northing: 427080	Annual Volume (m^3): 20625 Max Daily Volume (m^3): 760 Original Application No: NPS/WR/017442 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -

ID	Location	Details	
L	889m SW	Status: Historical Licence No: 2/27/18/140 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: D A PLATT Easting: 452120 Northing: 427080	Annual Volume (m^3): 20625 Max Daily Volume (m^3): 760 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
9	980m SW	Status: Historical Licence No: 2/27/18/116 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: INLAND WATER - FLEET DRAIN Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 452100 Northing: 427000	Annual Volume (m^3): 3000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 04/09/2002 Expiry Date: 31/10/2006 Issue No: 1 Version Start Date: 04/09/2002 Version End Date: -
M	1066m SE	Status: Active Licence No: 2/27/18/033 Details: Trickle Irrigation - Direct Direct Source: SURFACE WATER Point: OLD HEE FISH POND - ROALL MANOR - KELLINGTON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 456401 Northing: 425460	Annual Volume (m^3): 70000 Max Daily Volume (m^3): 1300 Original Application No: NPS/WR/038481 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 106 Version Start Date: 16/02/2023 Version End Date: -
M	1066m SE	Status: Active Licence No: 2/27/18/033 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD HEE FISH POND - ROALL MANOR - KELLINGTON Data Type: Point Name: The Hambleton Abstraction Partnership Easting: 456401 Northing: 425460	Annual Volume (m^3): 70000 Max Daily Volume (m^3): 1300 Original Application No: NPS/WR/038481 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 106 Version Start Date: 16/02/2023 Version End Date: -
N	1113m SE	Status: Historical Licence No: 2/27/18/033 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD HEE FISH POND - ROALL MANOR KELLINGTON Data Type: Point Name: M H POSKITT LIMITED Easting: 456400 Northing: 425400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/06/1999 Version End Date: -

ID	Location	Details	
N	1113m SE	Status: Historical Licence No: 2/27/18/033 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: OLD HEE FISH POND - ROALL MANOR - KELLINGTON Data Type: Point Name: THE HAMBLETON ABSTRACTION PARTNERSHIP Easting: 456400 Northing: 425400	Annual Volume (m^3): 45000 Max Daily Volume (m^3): 1300 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/12/2014 Version End Date: -
O	1179m W	Status: Active Licence No: 2/27/18/136/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449657 Northing: 427378	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: NPS/WR/017034 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
O	1179m W	Status: Historical Licence No: 2/27/18/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449657 Northing: 427378	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1344m E	Status: Active Licence No: 2/27/24/464/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL - BRAYTON - SELBY Data Type: Line Name: Canal and River Trust Easting: 457088 Northing: 426420	Annual Volume (m^3): 25000 Max Daily Volume (m^3): 1270 Original Application No: NPS/WR/038957 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 23/03/2023 Version End Date: -
-	1344m E	Status: Historical Licence No: 2/27/24/464/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL - BRAYTON - SELBY Data Type: Line Name: Canal and River Trust Easting: 457088 Northing: 426420	Annual Volume (m^3): 40000 Max Daily Volume (m^3): 1270 Original Application No: NPS/WR/031892 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 25/11/2019 Version End Date: -

ID	Location	Details	
R	1351m SW	Status: Historical Licence No: 2/27/18/089 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 451600 Northing: 424500	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2181 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1352m SE	Status: Historical Licence No: 2/27/18/137 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE -KELLINGLEY Data Type: Point Name: D A PLATT Easting: 457090 Northing: 426130	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
R	1354m SW	Status: Active Licence No: 2/27/18/137/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGLEY Data Type: Line Name: D A PLATT Easting: 451580 Northing: 424510	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: NPS/WR/017445 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
R	1354m SW	Status: Historical Licence No: 2/27/18/137 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE - KELLINGLEY Data Type: Line Name: D A PLATT Easting: 451580 Northing: 424510	Annual Volume (m^3): 82000 Max Daily Volume (m^3): 1464 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1374m E	Status: Historical Licence No: 2/27/24/464/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL - BRAYTON - SELBY Data Type: Line Name: Canal and River Trust Easting: 458515 Northing: 428984	Annual Volume (m^3): 40000 Max Daily Volume (m^3): 1270 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/06/2018 Version End Date: -

ID	Location	Details	
-	1435m W	Status: Historical Licence No: 2/27/18/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: TOPSTONE DRAIN- BURTON SALMON Data Type: Line Name: J H MCCLOY & CO LTD Easting: 449660 Northing: 427380	Annual Volume (m^3): 41000 Max Daily Volume (m^3): 1028 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1473m NW	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1473m NW	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1473m NW	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - SHERBURN IN ELMET Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
-	1477m NW	Status: Active Licence No: 2/27/24/469/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: Hartleys Farming Ltd Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: NPS/WR/029547 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -

ID	Location	Details	
-	1477m NW	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: J E HARTLEY LTD Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
-	1492m E	Status: Active Licence No: 2/27/18/133/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL Data Type: Line Name: Canal and River Trust Easting: 457192 Northing: 426688	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 981.6 Original Application No: NPS/WR/018175 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1502m E	Status: Historical Licence No: 2/27/18/102 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL Data Type: Line Name: BRITISH WATERWAYS Easting: 457200 Northing: 426700	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 981.6 Original Application No: - Original Start Date: 01/03/1998 Expiry Date: 30/09/2006 Issue No: 102 Version Start Date: 26/07/2002 Version End Date: -
-	1502m E	Status: Historical Licence No: 2/27/18/133 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY CANAL Data Type: Line Name: Canal and River Trust Easting: 457200 Northing: 426700	Annual Volume (m^3): 20000 Max Daily Volume (m^3): 981.6 Original Application No: - Original Start Date: 13/03/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 21/01/2008 Version End Date: -
14	1723m NE	Status: Historical Licence No: 2/27/20/312 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WHARFE - SELBY Data Type: Line Name: J SYKES & SONS Easting: 456370 Northing: 429230	Annual Volume (m^3): 34000 Max Daily Volume (m^3): 1091 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -

ID	Location	Details	
-	1853m E	Status: Historical Licence No: 2/27/18/089 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER AIRE Data Type: Line Name: DAVID ARNOLD PLATT & SYBIL E PLATT Easting: 457600 Northing: 426200	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 2181 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
Z	1928m SW	Status: Active Licence No: 2/27/18/139/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WOODHOLMES DRAIN - BEAL Data Type: Point Name: D A PLATT Easting: 452430 Northing: 425220	Annual Volume (m^3): 51000 Max Daily Volume (m^3): 727 Original Application No: NPS/WR/017446 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
Z	1928m SW	Status: Historical Licence No: 2/27/18/139 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WOODHOLMES DRAIN - BEAL Data Type: Point Name: D A PLATT Easting: 452430 Northing: 425220	Annual Volume (m^3): 51000 Max Daily Volume (m^3): 727 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -

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

6.8 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.

6.9 Source Protection Zones

Records within 500m	1

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 44 >**

ID	Location	Type	Description
6	403m SE	3	Total catchment

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

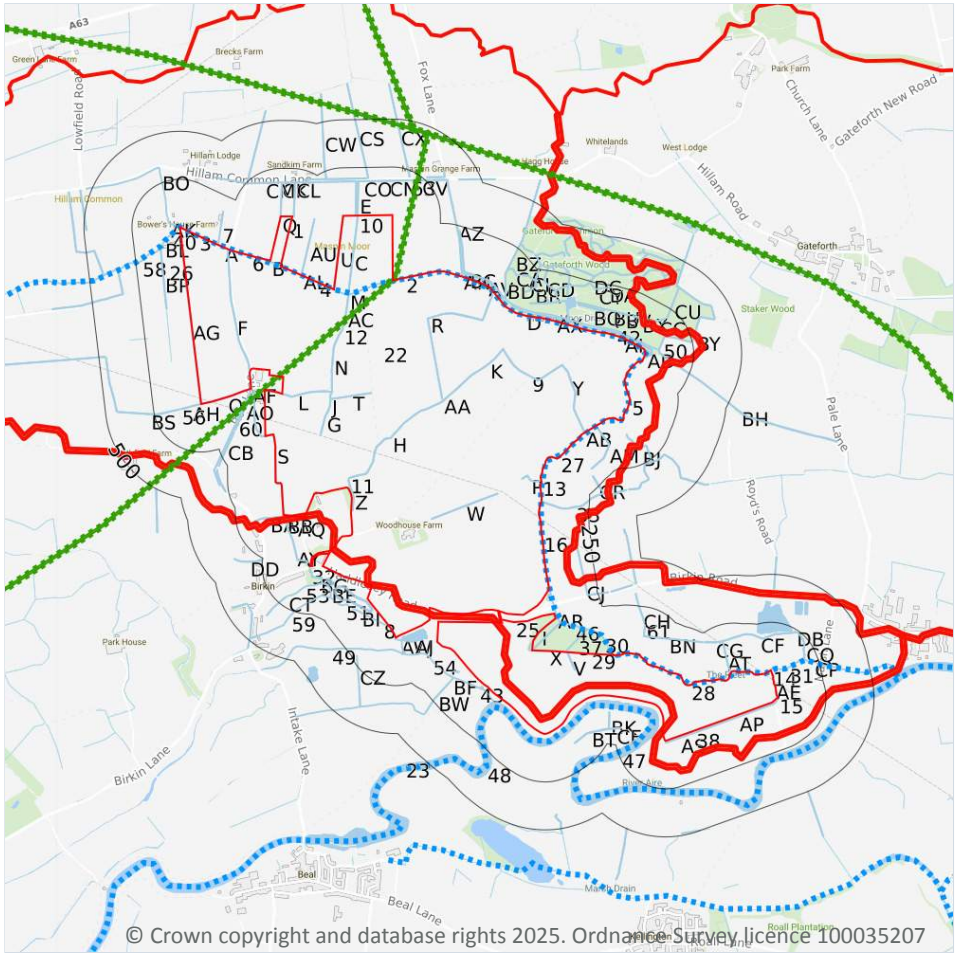
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



7.1 Water Network (OS MasterMap)

Records within 250m	246

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

Features are displayed on the Hydrology map on **page 68 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
12	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
13	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
14	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
15	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
16	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mearley Drain
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
W	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
AD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AH	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AI	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Maspin Moor Drain**
27	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Mearley Drain**
28	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**The Fleet**
29	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
AL	1m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Maspin Moor Drain
AF	1m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	The Fleet
31	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	The Fleet
AO	2m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
32	4m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
33	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AQ	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	5m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
37	8m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	8m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	9m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mearley Drain
AS	9m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AT	9m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AU	10m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
38	10m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AV	11m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AW	12m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AY	13m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	13m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	13m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mearley Drain
AX	14m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
40	14m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	14m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AZ	14m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	15m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	17m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mearley Drain
BA	19m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	20m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AR	21m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mearley Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
BB	21m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
42	21m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BC	21m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
43	22m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Eye
D	24m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	24m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	26m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	27m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AW	28m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
46	32m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	The Fleet
AO	34m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
47	38m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Aire
BG	46m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
48	54m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Aire
49	65m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Eye
D	67m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BH	70m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BI	71m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AW	72m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
50	73m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BJ	75m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
51	75m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BE	78m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AW	80m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	81m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
53	82m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	82m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	83m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	83m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BK	83m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	83m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	84m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
54	85m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Eye
BF	89m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BL	94m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AK	96m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BL	98m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BN	98m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BO	100m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	102m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	102m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	109m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BP	113m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
58	113m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BQ	114m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	114m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BR	116m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	116m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BT	118m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	119m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	121m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	122m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	123m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	123m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BQ	123m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	123m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	124m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	124m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BX	124m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	125m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BY	125m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	125m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
59	129m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CA	130m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	130m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
60	132m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	135m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CB	136m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	137m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	143m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CC	146m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	157m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	157m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CE	158m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
61	160m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CB	161m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CF	164m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CG	165m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
CH	165m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CI	171m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CJ	176m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	176m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CK	176m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	176m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CL	176m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CM	176m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CN	178m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	178m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	178m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	178m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	179m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
CO	179m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	179m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	180m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CP	182m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	The Fleet
CP	182m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	186m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	189m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CR	191m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	192m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	192m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	193m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	194m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CS	194m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	195m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CT	197m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CU	198m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CG	198m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	198m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	198m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
63	199m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	199m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CG	200m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	200m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	200m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CT	201m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	201m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
CO	202m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	203m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CT	203m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CV	203m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	204m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	205m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	205m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CO	205m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	206m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	210m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CW	210m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	212m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
CX	218m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
CY	219m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	223m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AZ	225m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DA	234m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DA	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	240m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	241m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DC	243m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DD	249m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	94

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 68 >**

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site	2

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

Features are displayed on the Hydrology map on **page 68 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
22	**On site**	**River**	**The Fleet from Source to River Aire**	**GB104027062740**	**Aire Lower**	**Aire and Calder**
23	**On site**	**River**	**Aire from River Calder to River Ouse**	**GB104027062760**	**Aire Lower**	**Aire and Calder**

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

7.4 WFD Surface water bodies

Records identified	2

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

Features are displayed on the Hydrology map on **page 68 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
24	**On site**	**River**	**The Fleet from Source to River Aire**	**GB104027062740**	**Moderate**	**Fail**	**Moderate**	**2019**
44	29m SE	River	Aire from River Calder to River Ouse	GB104027062760	Moderate	Fail	Moderate	2019

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

7.5 WFD Groundwater bodies

Records on site	2

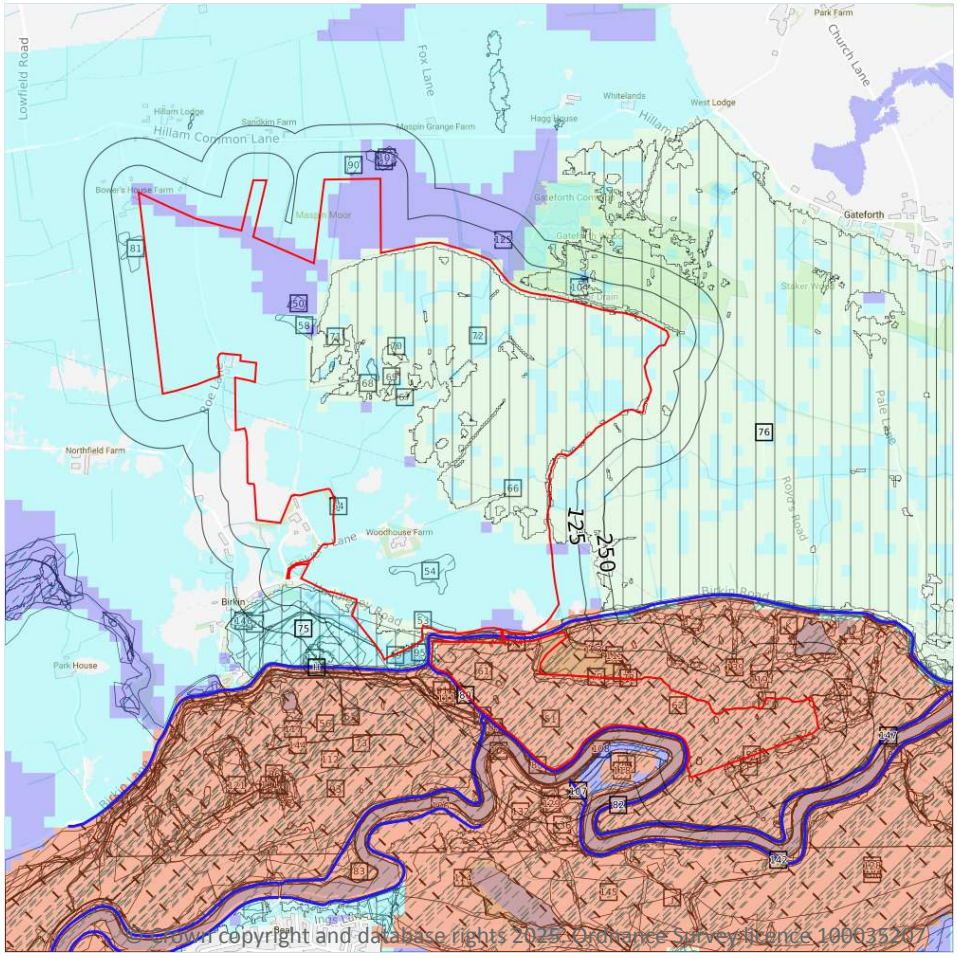
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 68 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
25	**On site**	**Aire & Don Sherwood Sandstone.**	**GB40401G701000**	**Poor**	**Poor**	**Poor**	**2019**
26	**On site**	**Aire & Don Magnesian Limestone.**	**GB40401G700900**	**Poor**	**Poor**	**Good**	**2019**

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

8 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

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

8.1 Risk of flooding from rivers and the sea

Records within 50m	59

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

Features are displayed on the River and coastal flooding map on **page 90 >**

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

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

8.2 Historical Flood Events

Records within 250m	**82**

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

Features are displayed on the River and coastal flooding map on **page 90 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
49	**On site**	**2020 February Flood Incident - Storm Ciara**	**2020-02-08 2020-02-14**	**Drainage**	**Local drainage/surface water**	**No data**
50	**On site**	**2020 February Flood Incident - Storm Ciara**	**2020-02-08 2020-02-14**	**Drainage**	**Local drainage/surface water**	**No data**
51	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
52	**On site**	**123 December 1978 - Lower Aire Washlands**	**1978-12-01 1978-12-31**	**Main river**	**Other**	**Fluvial**
53	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Drainage**	**Local drainage/surface water**	**No data**
54	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Drainage**	**Local drainage/surface water**	**No data**
55	**On site**	**December 2015 Flood Event**	**2015-12-25 2015-12-29**	**Main river**	**Channel capacity exceeded (no raised defences)**	**Fluvial**
56	**On site**	**2020 February Flood Incident - Storm Dennis**	**2020-02-15 2020-03-19**	**Main river**	**Overtopping of defences**	**Fluvial**
57	**On site**	**June 2007 Flood Event (Ridings Area)**	**2007-06-25 2007-06-26**	**Unknown**	**Unknown**	**Fluvial**
58	**On site**	**June 2007 Flood Event (Ridings Area)**	**2007-06-25 2007-06-26**	**Unknown**	**Unknown**	**Fluvial**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
59	On site	123 Autumn 2000	2000-10-30 2000-12-15	Main river	Unknown	No data
60	On site	Lower Aire. Birkin / West Haddlesey Ing	2002-02-10 2002-02-10	Main river	Other	Fluvial
61	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
62	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
63	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
64	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
65	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
66	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
B	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
67	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
C	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
68	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
E	On site	123 March 1981	1981-03-22 1981-03-25	Main river	Other	Fluvial
E	On site	123 February 1995 - Lower Aire West Haddlesey	1995-02-01 1995-02-28	Main river	Other	Fluvial
E	On site	123 January 1982 - Lower Aire Birkin Holme	1982-01-03 1982-01-31	Main river	Other	Fluvial
69	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
F	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
70	On site	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
71	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
72	**On site**	**Yorkshire**	**2015-12-31 2015-12-31**	**Unclassified**	**Unclassified**	**No data**
73	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
74	**On site**	**Yorkshire**	**2015-12-29 2015-12-29**	**Unclassified**	**Unclassified**	**No data**
77	1m SE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
78	2m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
79	2m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
81	5m NW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
83	12m S	123 February 1995 - Lower Aire	1995-02-01 1995-02-28	Main river	Unknown	Fluvial
84	14m SE	123 February 1995 - Lower Aire	1995-02-01 1995-02-28	Main river	Unknown	Fluvial
G	15m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
G	17m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
85	17m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
86	17m S	123 March 1981	1981-03-22 1981-03-25	Main river	Other	Fluvial
87	18m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
88	18m SE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
90	19m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
91	21m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
93	25m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
95	34m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
97	39m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
100	52m SE	Lower Aire Kellington Ings	2002-02-10 2002-02-13	Main river	Other	Fluvial
101	53m S	123 January 1982 - Lower Aire Wesy Holme	1982-01-03 1982-01-31	Main river	Other	Fluvial
I	57m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
102	57m SE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
103	58m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
104	59m NE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
105	59m S	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
106	60m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
J	68m SE	December 2015 Flood Event	2015-12-25 2015-12-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
108	69m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
J	70m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Overtopping of defences	Fluvial
111	75m S	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
112	76m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
115	84m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
117	87m S	123 March 1982	1982-03-14 1982-03-14	Main river	Other	Fluvial

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
118	89m SE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
119	90m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
120	91m SW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
121	93m S	123 February 1995 - Lower Aire Birkin Holme	1995-02-01 1995-02-28	Main river	Other	Fluvial
123	95m SE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
124	101m S	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial
125	103m N	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
126	110m SW	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
128	115m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
129	123m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
132	133m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
134	148m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
K	160m SE	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
136	164m S	Yorkshire	2015-12-31 2015-12-31	Unclassified	Unclassified	No data
139	186m SE	Yorkshire	2015-12-29 2015-12-29	Unclassified	Unclassified	No data
144	218m S	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
145	230m S	123 February 1995 - Lower Aire Roall Ings	1995-02-01 1995-02-28	Main river	Other	Fluvial
146	233m SW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data

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

8.3 Flood Defences

Records within 250m	**9**

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

Features are displayed on the River and coastal flooding map on **page 90 >**

ID	Location	Update
A	**On site**	**08/11/2022**
80	5m S	08/11/2022
82	7m SE	08/11/2022
D	15m S	08/11/2022
F	16m S	08/11/2022
H	46m S	08/11/2022
107	68m SE	08/11/2022
142	203m SE	08/11/2022
147	250m SE	08/11/2022

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

8.4 Areas Benefiting from Flood Defences

Records within 250m	**2**

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.

Features are displayed on the River and coastal flooding map on **page 90 >**

ID	Location	
75	**On site**	**Area benefiting from flood defences**
76	**On site**	**Area benefiting from flood defences**

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

8.5 Flood Storage Areas

Records within 250m	2

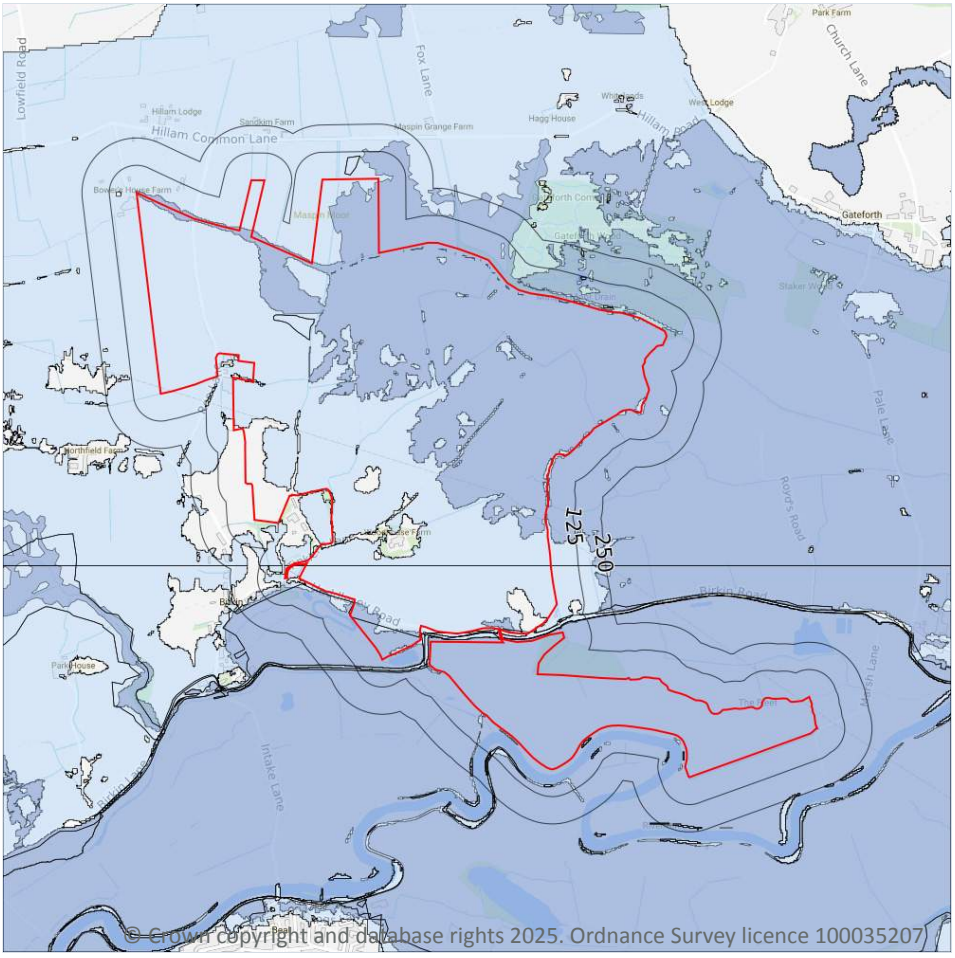
Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

Features are displayed on the River and coastal flooding map on **page 90 >**

ID	Location	Update
F	**On site**	**Flood Storage Area**
J	67m S	Flood Storage Area

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

8.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 90 >**

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

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

8.7 Flood Zone 3

Records within 50m	1

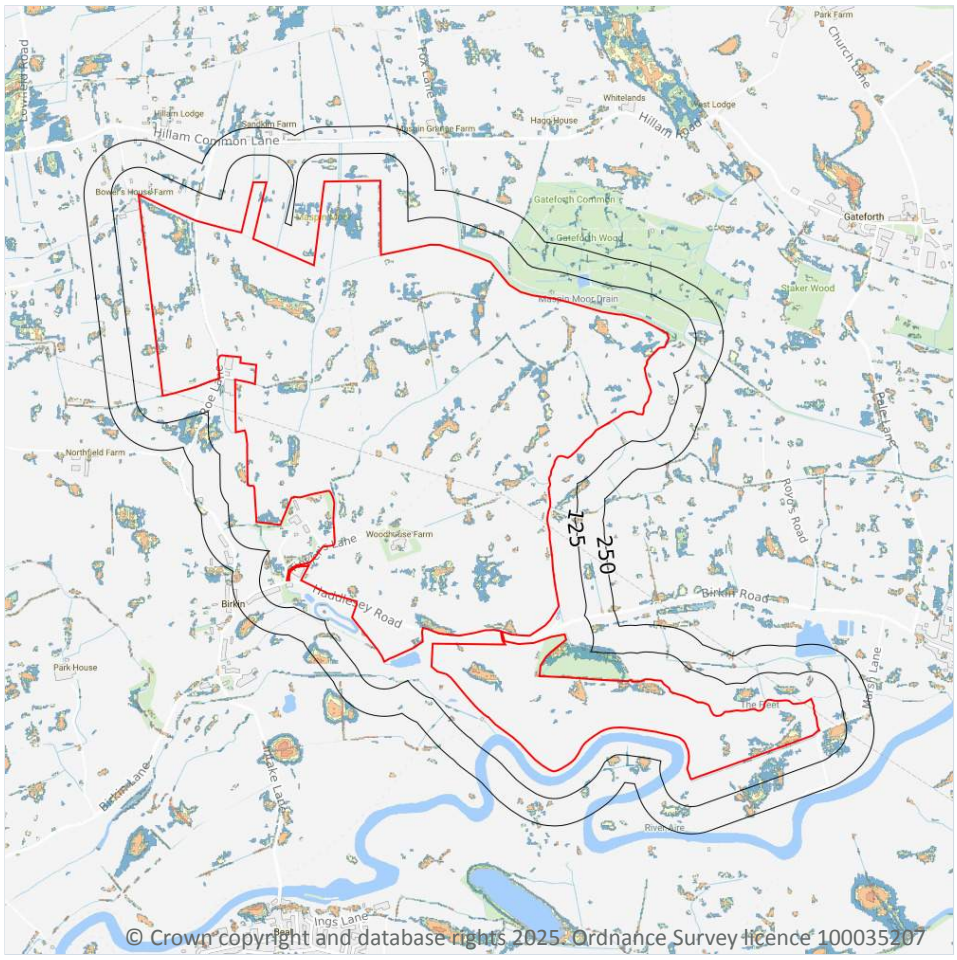
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 90 >**

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

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

9 Surface water flooding



Site Outline

Search buffers in metres (m)

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

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

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

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

9.1 Surface water flooding

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

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

Features are displayed on the Surface water flooding map on **page 100 >**

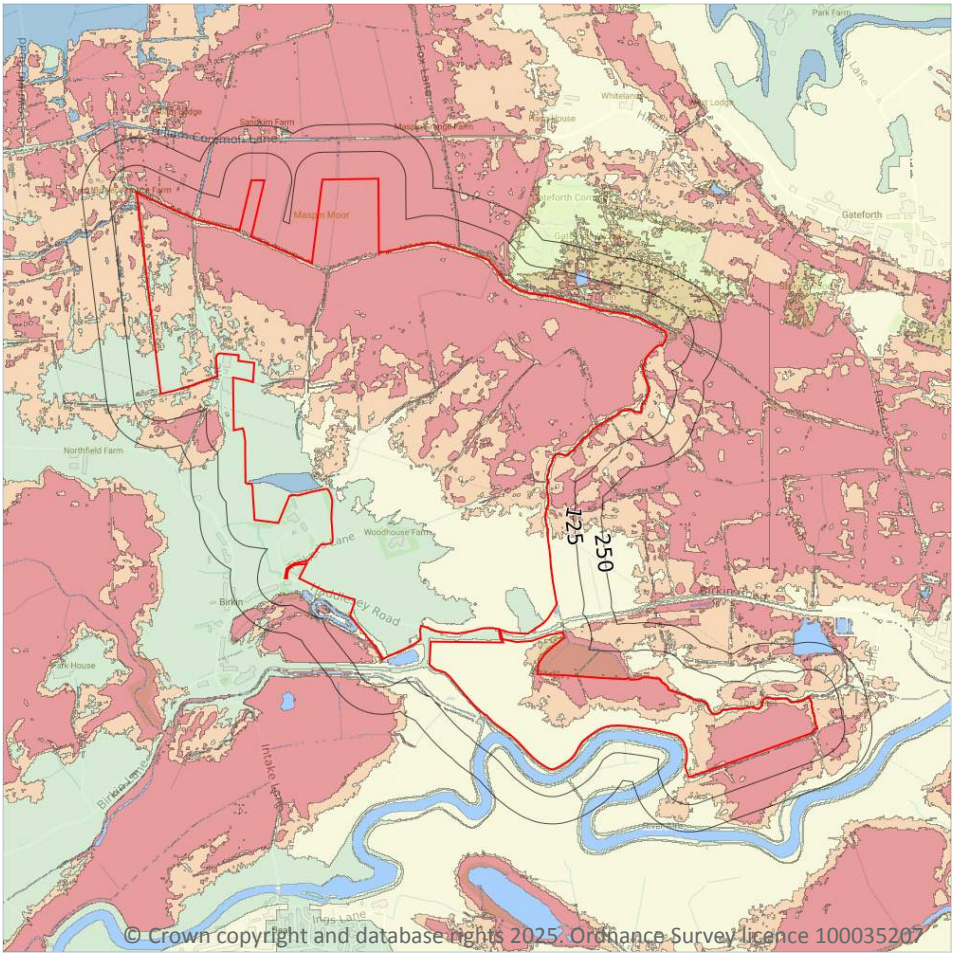
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

10 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

10.1 Groundwater flooding

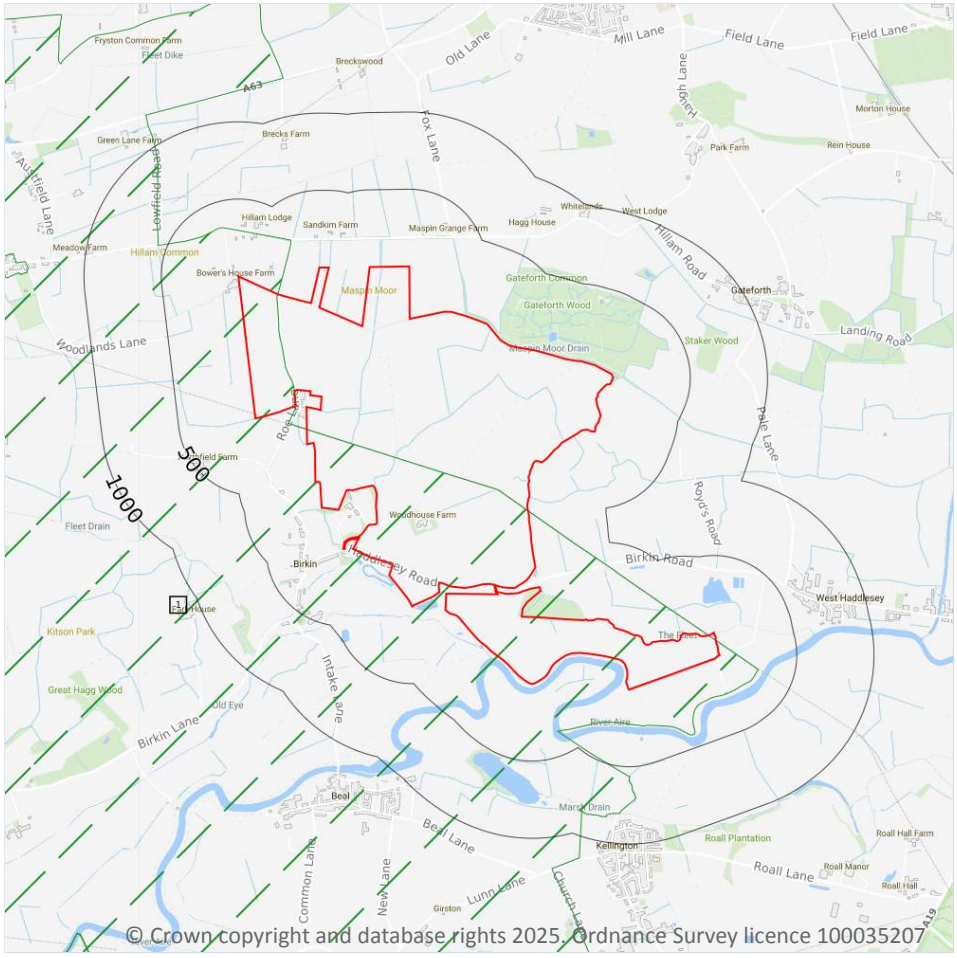
Highest risk on site	**High**
Highest risk within 50m	**High**

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

Features are displayed on the Groundwater flooding map on **page 102 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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.

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

11.3 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.

11.4 Special Protection Areas (SPA)

Records within 2000m	0

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.

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

11.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

11.6 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.

11.7 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.

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 103 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Selby**

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

11.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

Records within 2000m	14

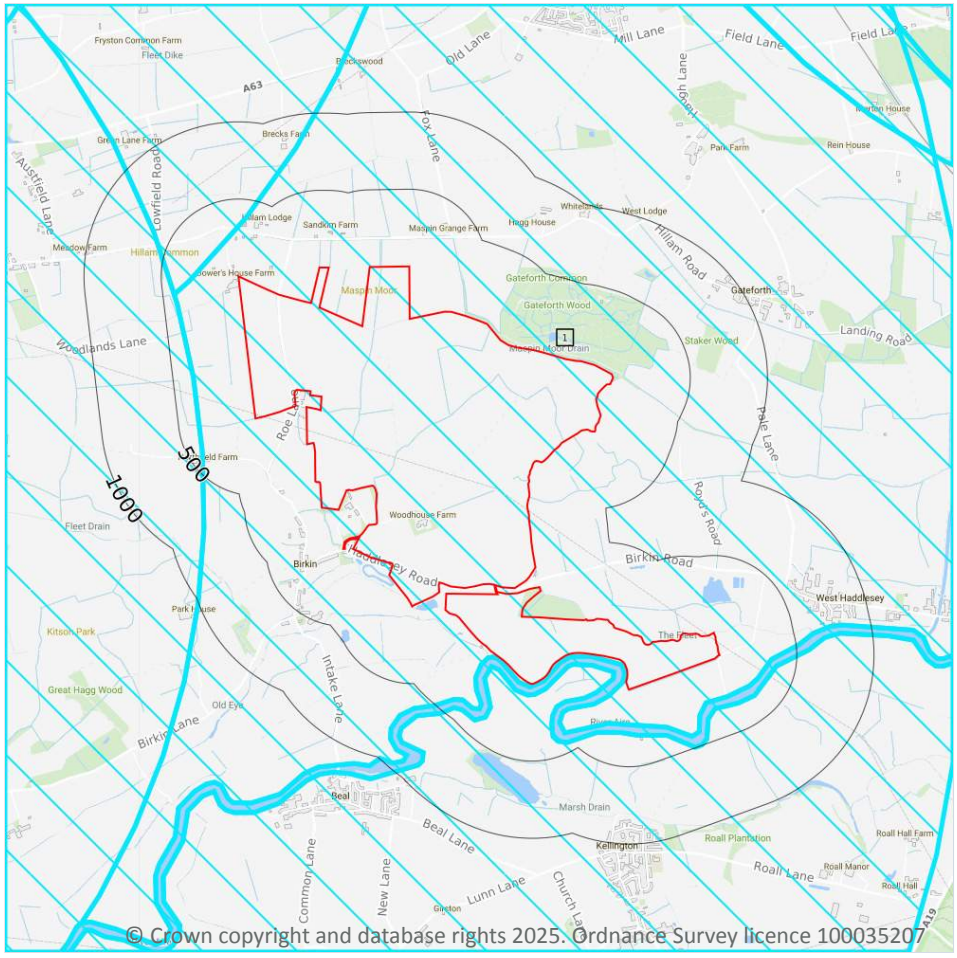
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**The Fleet from Source to River Aire NVZ**	**Surface Water**	**272**	**Existing**
On site	**The Fleet from Source to River Aire NVZ**	**Surface Water**	**272**	**Existing**
On site	**Aire from River Calder to River Ouse NVZ**	**Surface Water**	**274**	**Existing**
On site	**Aire from River Calder to River Ouse NVZ**	**Surface Water**	**274**	**Existing**
98m SE	Aire from River Calder to River Ouse NVZ	Surface Water	274	Existing
384m S	Aire from River Calder to River Ouse NVZ	Surface Water	274	Existing
715m S	Selby	Groundwater	108	Existing
756m NE	Brayton	Groundwater	107	Existing

Location	Name	Type	NVZ ID	Status
776m S	Selby	Groundwater	108	Existing
1133m W	Yorkshire Mag Limestone	Groundwater	101	Existing
1541m N	Selby Dam from Conf. Fox Dike & Carr Dike to Ouse NVZ	Surface Water	287	Existing
1649m N	Selby Dam from Conf. Fox Dike & Carr Dike to Ouse NVZ	Surface Water	287	Existing
1737m S	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
1869m S	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing

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

SSSI Impact Zones and Units



11.17 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 109 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.**

This data is sourced from Natural England.

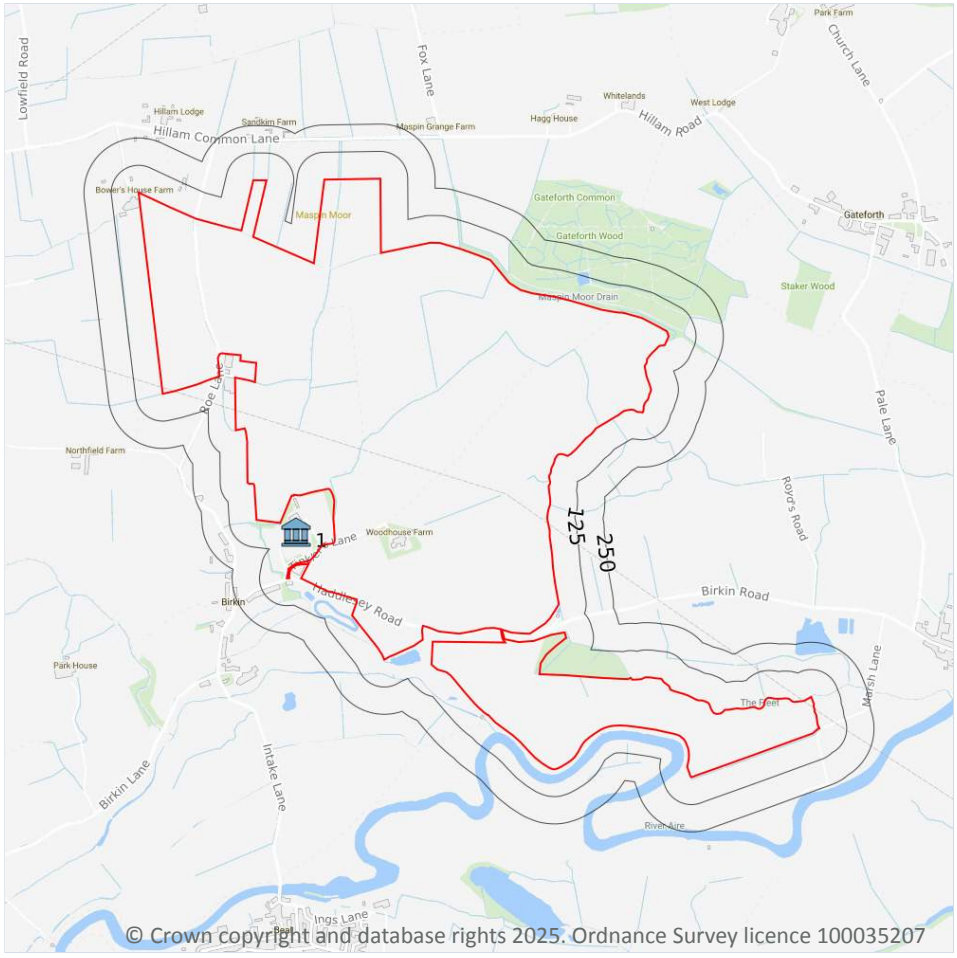
11.18 SSSI Units

Records within 2000m	0

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.

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

12 Visual and cultural designations



- Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 111 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	85m SW	Birkin House	II	1316672	14/03/1986

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

12.5 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.

12.6 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.

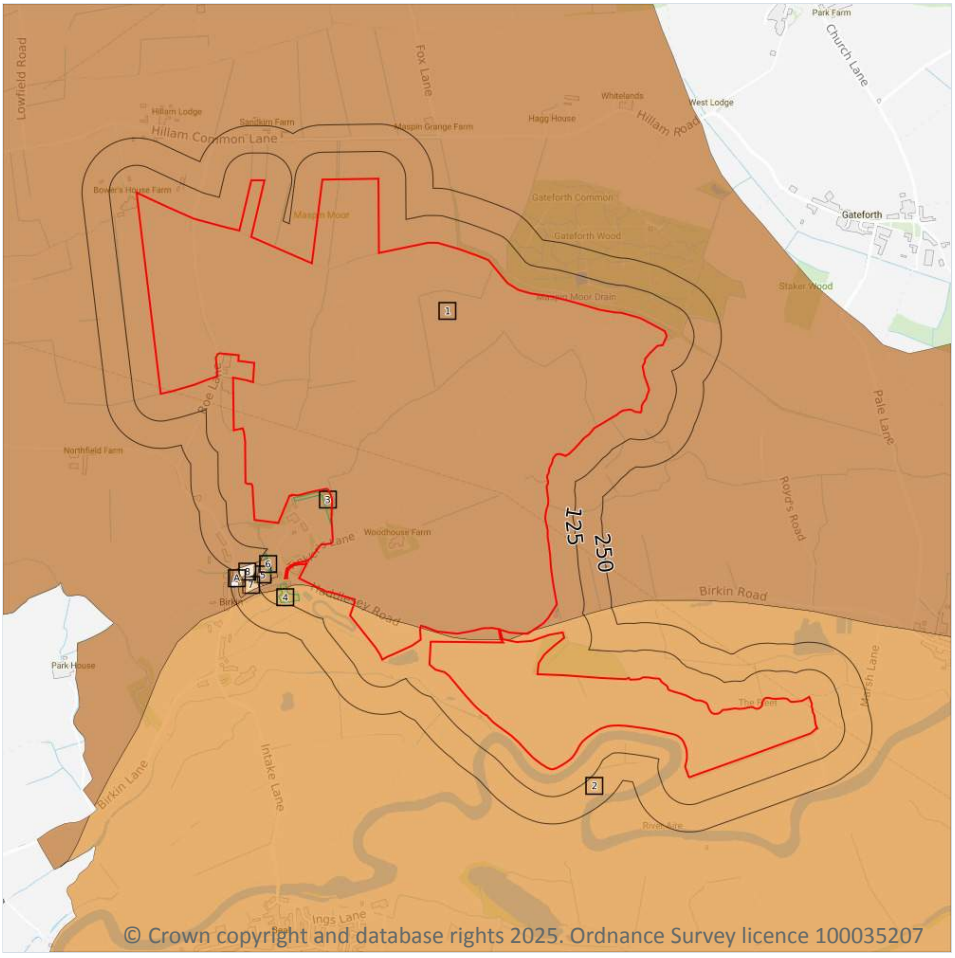
12.7 Registered Parks and Gardens

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.

13 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

13.1 Agricultural Land Classification

Records within 250m	6

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 114 >**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
5	34m SW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
7	104m SW	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
8	139m SW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
A	184m SW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

13.2 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.

13.3 Tree Felling Licences

Records within 250m	3

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.

Features are displayed on the Agricultural designations map on **page 114 >**

ID	Location	Description	Reference	Application date
3	**On site**	**Clear Fell (Conditional)**	**012/107/90-91**	**20/08/1990**
4	23m SW	Clear Fell (Conditional)	012/103/93-94	01/07/1993
6	65m SW	Clear Fell (Conditional)	012/106/90-91	20/08/1990

This data is sourced from the Forestry Commission.

13.4 Environmental Stewardship Schemes

Records within 250m	13

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

Location	Reference	Scheme	Start Date	End date
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00333276**	**Entry Level plus Higher Level Stewardship**	**01/04/2011**	**31/03/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2021**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
On site	**AG00370674**	**Entry Level plus Higher Level Stewardship**	**01/05/2011**	**30/04/2023**
193m N	AG00370674	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023

Location	Reference	Scheme	Start Date	End date
195m N	AG00370674	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2021

This data is sourced from Natural England.

13.5 Countryside Stewardship Schemes

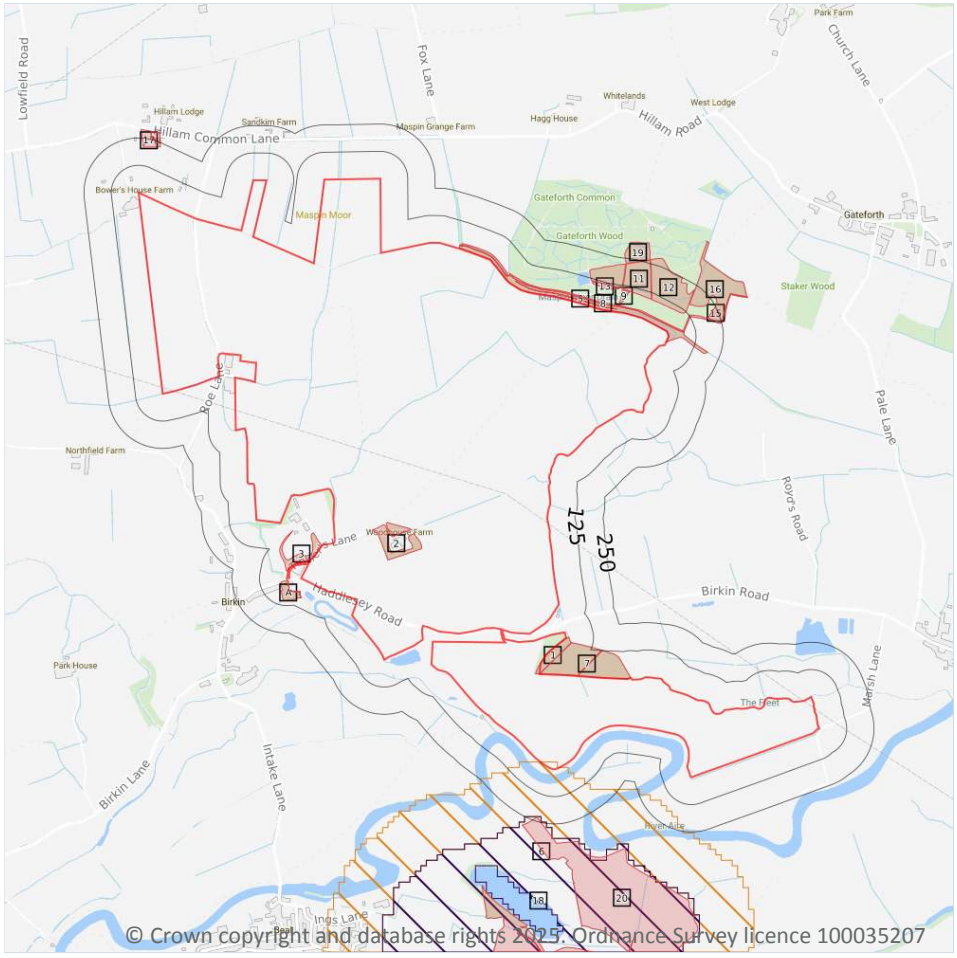
Records within 250m	**13**

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

Location	Reference	Scheme	Start Date	End Date
On site	**1276503**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
On site	**1459758**	**Countryside Stewardship (Middle Tier)**	**01/01/2023**	**31/12/2027**
On site	**1522687**	**Countryside Stewardship (Higher Tier)**	**01/08/2023**	**31/07/2026**
On site	**1261971**	**Countryside Stewardship (Middle Tier)**	**01/01/2022**	**31/12/2026**
8m SE	1261971	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
57m SE	1028998	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
66m NE	1011643	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
77m SW	1649428	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
157m NW	1459758	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
169m W	1649428	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
229m W	1649428	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028
231m S	1276503	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
235m E	1261971	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

14 Habitat designations



Site Outline

Search buffers in metres (m)

- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders

Habitat Networks

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

14.1 Priority Habitat Inventory

Records within 250m	22

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

Features are displayed on the Habitat designations map on **page 118 >**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	1m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	8m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	17m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	22m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	33m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	58m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	95m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	95m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	98m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	111m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	121m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	161m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	209m NW	No main habitat but additional habitats present	Additional: TORCH (INV 50%)
19	227m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	231m S	Lowland fens	Main habitat: LFENS (INV > 50%)
21	239m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
22	248m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m **2**

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.

Features are displayed on the Habitat designations map on **page 118 >**

ID	Location	Type	Habitat
6	**On site**	**Network Enhancement Zone 1**	**Not specified**
18	224m S	Primary Habitat	Lowland fens

This data is sourced from Natural England.

14.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

14.4 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.

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 ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Groundsure LOCATION INTELLIGENCE

Geo Insight

302939-00 LVS - Site 4

Order Details

Date: 09/01/2025

Your ref: 302939-00 LVS Site 4

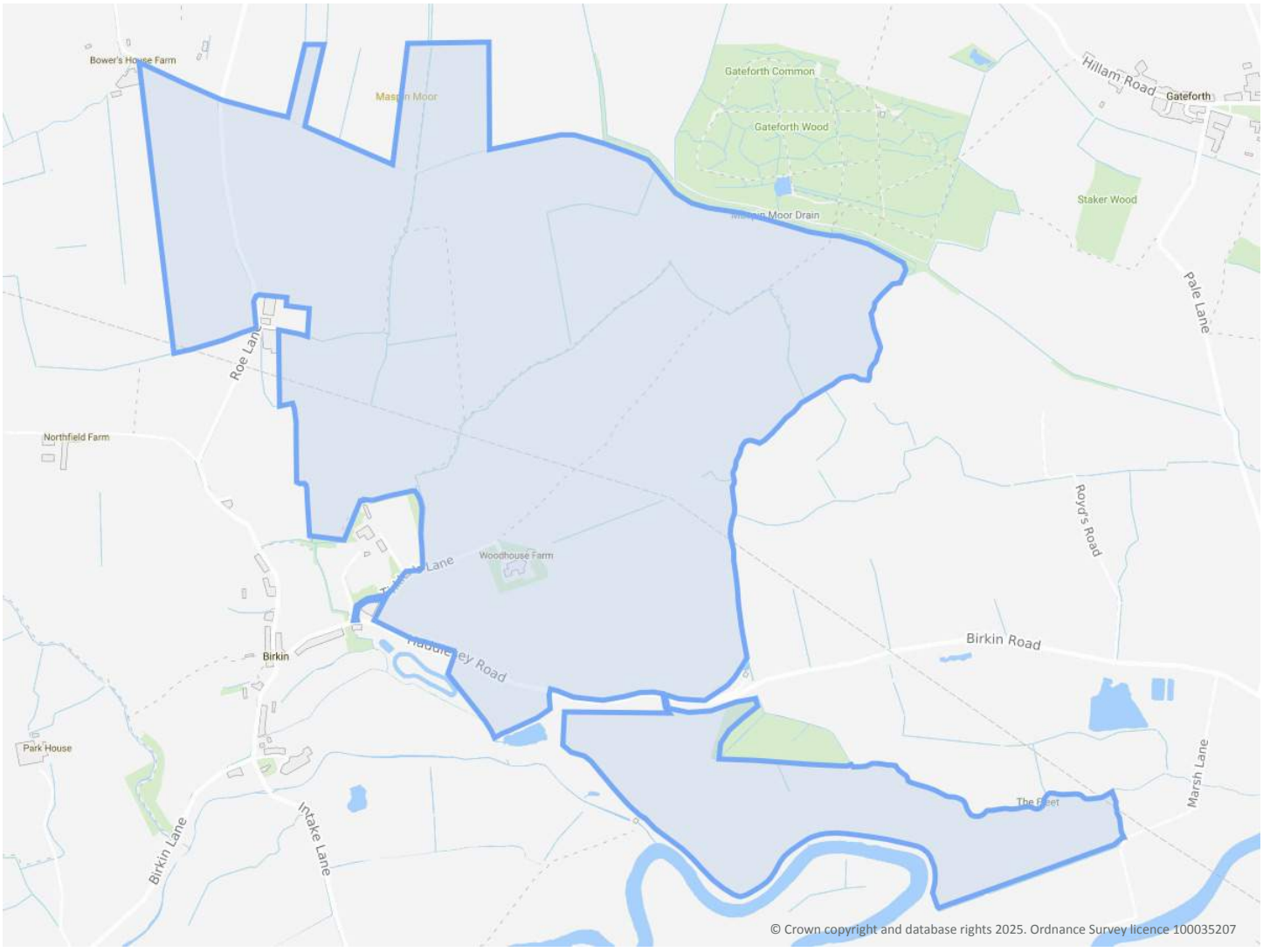
Our Ref: GS-SRP-6EC-X3R-CSJ

Site Details

Location: 453957 427590

Area: 336.78 ha

Authority: The North Yorkshire Council ↗



Summary of findings p. 2 >

Aerial image p. 5 >

OS MasterMap site plan N/A: >10ha

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
10 >	1.1 >	10k Availability >	Identified (within 500m)				
11 >	1.2 >	Artificial and made ground (10k) >	2	0	3	0	-
13 >	1.3 >	Superficial geology (10k) >	9	1	4	5	-
14	1.4	Landslip (10k)	0	0	0	0	-
15 >	1.5 >	Bedrock geology (10k) >	6	1	0	2	-
16 >	1.6 >	Bedrock faults and other linear features (10k) >	7	0	0	3	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	50k Availability >	Identified (within 500m)				
19	2.2	Artificial and made ground (50k)	0	0	0	0	-
19	2.3	Artificial ground permeability (50k)	0	0	-	-	-
20 >	2.4 >	Superficial geology (50k) >	7	1	3	5	-
21 >	2.5 >	Superficial permeability (50k) >	Identified (within 50m)				
22	2.6	Landslip (50k)	0	0	0	0	-
22	2.7	Landslip permeability (50k)	None (within 50m)				
23 >	2.8 >	Bedrock geology (50k) >	10	1	1	3	-
24 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
25 >	2.10 >	Bedrock faults and other linear features (50k) >	8	0	0	3	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	3.1 >	BGS Boreholes >	3	2	11	-	-
Page	Section	Natural ground subsidence >					
28 >	4.1 >	Shrink swell clays >	Low (within 50m)				
30 >	4.2 >	Running sands >	Low (within 50m)				
32 >	4.3 >	Compressible deposits >	Moderate (within 50m)				
34 >	4.4 >	Collapsible deposits >	Very low (within 50m)				
35 >	4.5 >	Landslides >	Very low (within 50m)				
36 >	4.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				

Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
38	5.1	BritPits	0	0	0	0	-
39 >	5.2 >	Surface ground workings >	8	14	5	-	-
40	5.3	Underground workings	0	0	0	0	0
40	5.4	Underground mining extents	0	0	0	0	-
40 >	5.5 >	Historical Mineral Planning Areas >	2	0	0	0	-
41	5.6	Non-coal mining	0	0	0	0	0
41	5.7	JPB mining areas	None (within 0m)				
41	5.8	The Coal Authority non-coal mining	0	0	0	0	-
41	5.9	Researched mining	0	0	0	0	-
42	5.10	Mining record office plans	0	0	0	0	-
42	5.11	BGS mine plans	0	0	0	0	-
42 >	5.12 >	Coal mining >	Identified (within 0m)				
42	5.13	Brine areas	None (within 0m)				
43	5.14	Gypsum areas	None (within 0m)				
43	5.15	Tin mining	None (within 0m)				
43	5.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
44	6.1	Natural cavities	0	0	0	0	-
44	6.2	Mining cavities	0	0	0	0	0
44	6.3	Reported recent incidents	0	0	0	0	-
44	6.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
46 >	7.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	8.1 >	BGS Estimated Background Soil Chemistry >	94	15	-	-	-
52	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
52	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m

53	9.1	Underground railways (London)	0	0	0	-	-
53	9.2	Underground railways (Non-London)	0	0	0	-	-
53	9.3	Railway tunnels	0	0	0	-	-
53	9.4	Historical railway and tunnel features	0	0	0	-	-
53	9.5	Royal Mail tunnels	0	0	0	-	-
54	9.6	Historical railways	0	0	0	-	-
54	9.7	Railways	0	0	0	-	-
54	9.8	Crossrail 2	0	0	0	0	-
54	9.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 336.78ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 336.78ha

Recent site history - 2012 aerial photograph

Capture Date: 26/03/2012

Site Area: 336.78ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

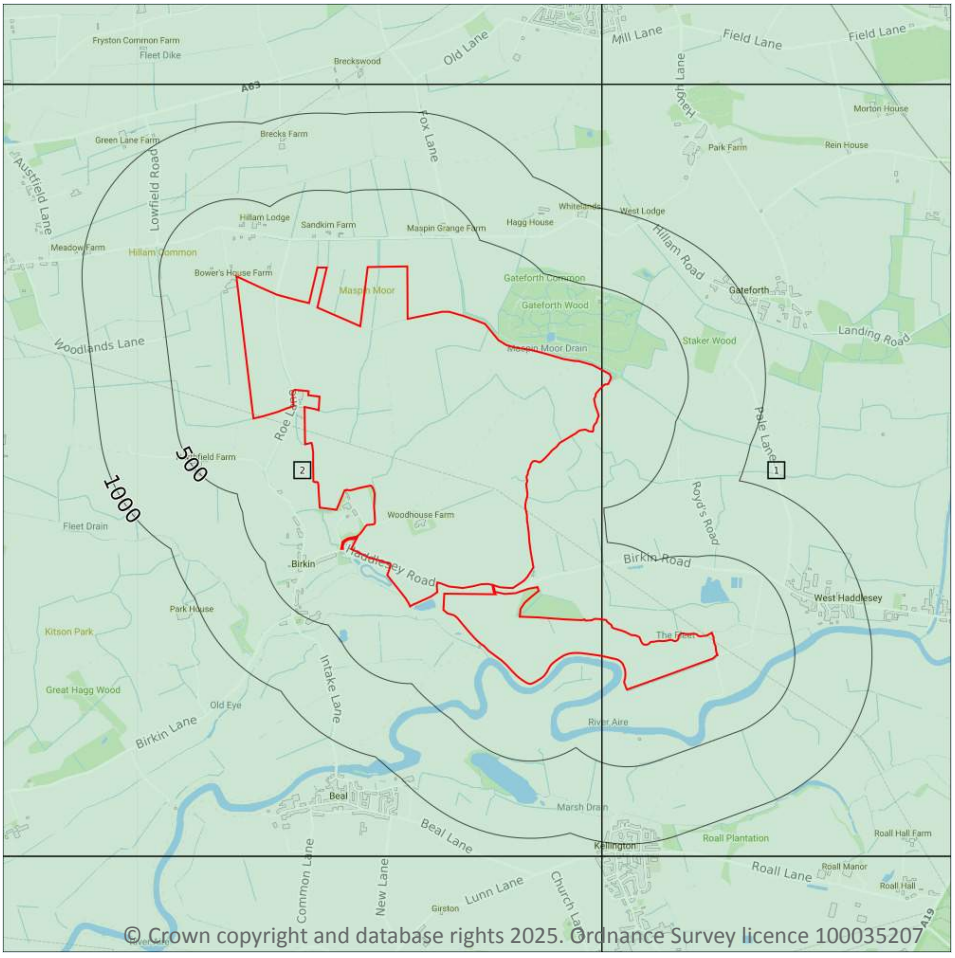
Site Area: 336.78ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 336.78ha

1 Geology 1:10,000 scale - Availability



1.1 10k Availability

Records within 500m	2

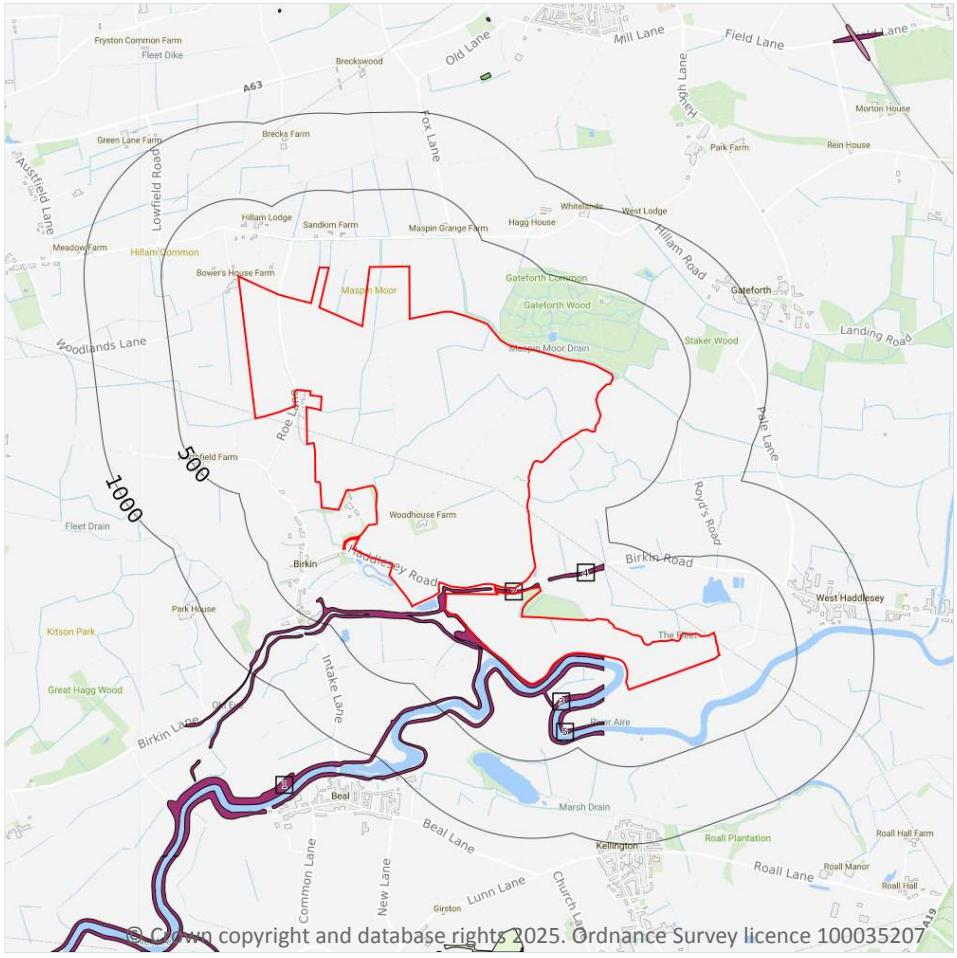
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE52NE
2	On site	Full	Full	Full	No coverage	SE52NW

This data is sourced from the British Geological Survey.

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



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1.2 Artificial and made ground (10k)

Records within 500m	5

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.

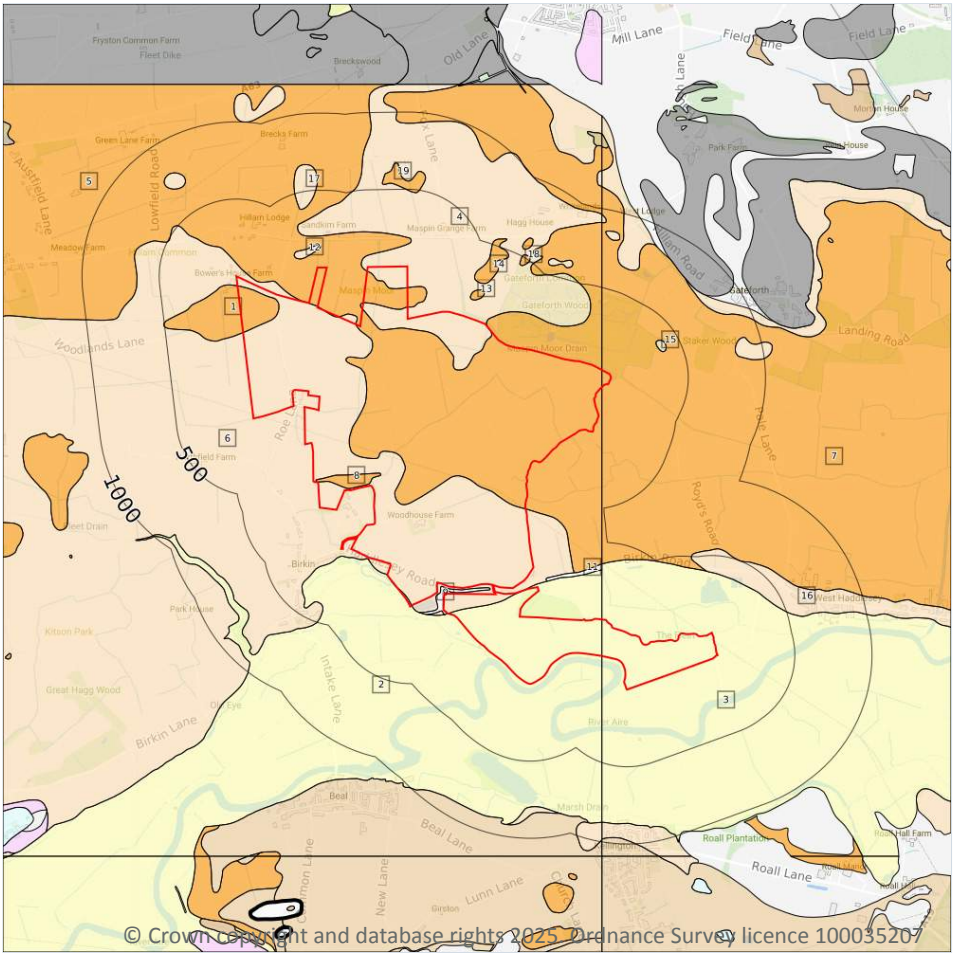
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 11 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
2	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
3	52m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	73m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	170m SE	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.

1.3 Superficial geology (10k)

Records within 500m	19

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 13 >**

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
4	On site	BREI-S	Breighton Sand Formation - Sand	Sand

ID	Location	LEX Code	Description	Rock description
5	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
6	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
7	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
8	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
9	**On site**	**SUPD-SED**	**Superficial Deposits - Sediment**	**Sediment**
10	11m S	BREI-S	Breighton Sand Formation - Sand	Sand
11	73m SE	SUPD-SED	Superficial Deposits - Sediment	Sediment
12	95m NW	BREI-S	Breighton Sand Formation - Sand	Sand
13	119m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
14	238m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
15	356m NE	BREI-S	Breighton Sand Formation - Sand	Sand
16	371m SE	BREI-S	Breighton Sand Formation - Sand	Sand
17	390m NW	BREI-S	Breighton Sand Formation - Sand	Sand
18	446m NE	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
19	481m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty

This data is sourced from the British Geological Survey.

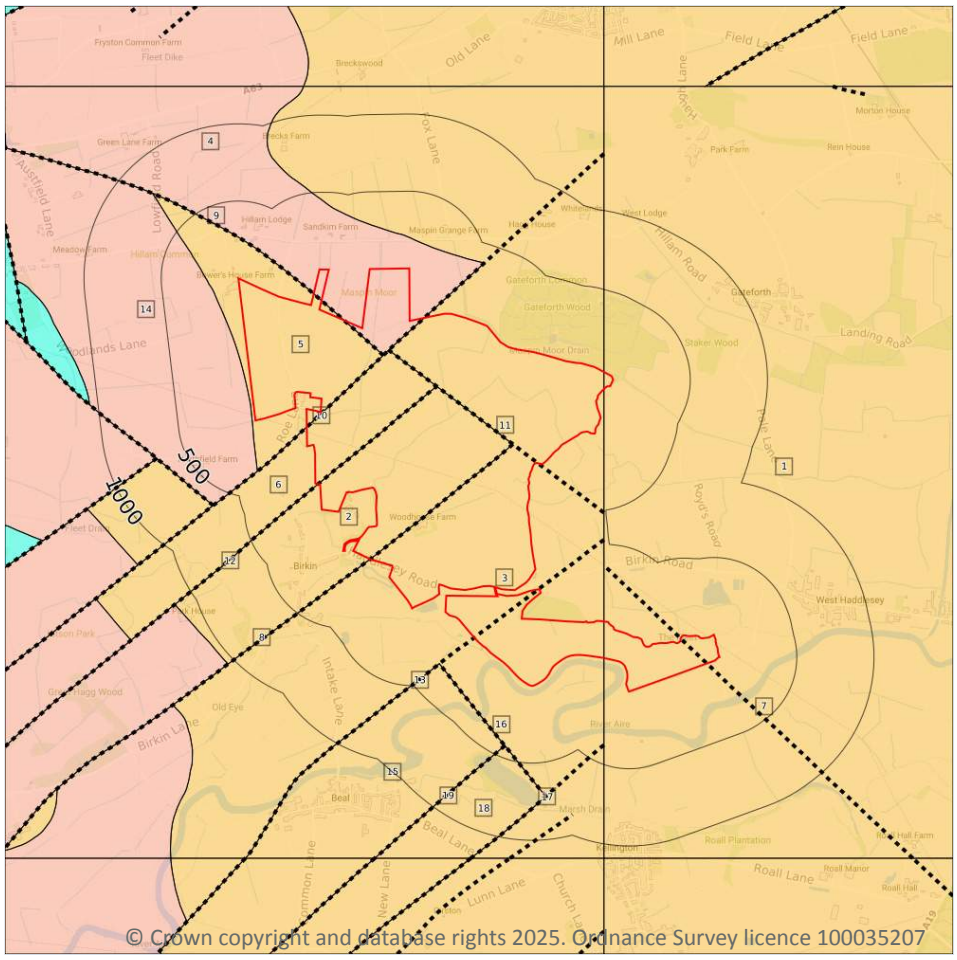
1.4 Landslip (10k)

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.

1.5 Bedrock geology (10k)

Records within 500m **9**

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 15 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
2	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**

ID	Location	LEX Code	Description	Rock age
3	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
4	**On site**	**ROX-CAMDST**	**Roxby Formation - Calcareous Mudstone**	**Early Triassic Epoch - Late Permian Epoch [Obsolete name]**
5	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
6	**On site**	**SSG-SDST**	**Sherwood Sandstone Group - Sandstone**	**Ladinian Age - Late Permian Epoch [Obsolete name]**
14	20m W	ROX-CAMDST	Roxby Formation - Calcareous Mudstone	Early Triassic Epoch - Late Permian Epoch [Obsolete name]
15	282m S	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]
18	423m S	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

1.6 Bedrock faults and other linear features (10k)

Records within 500m	**10**

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.

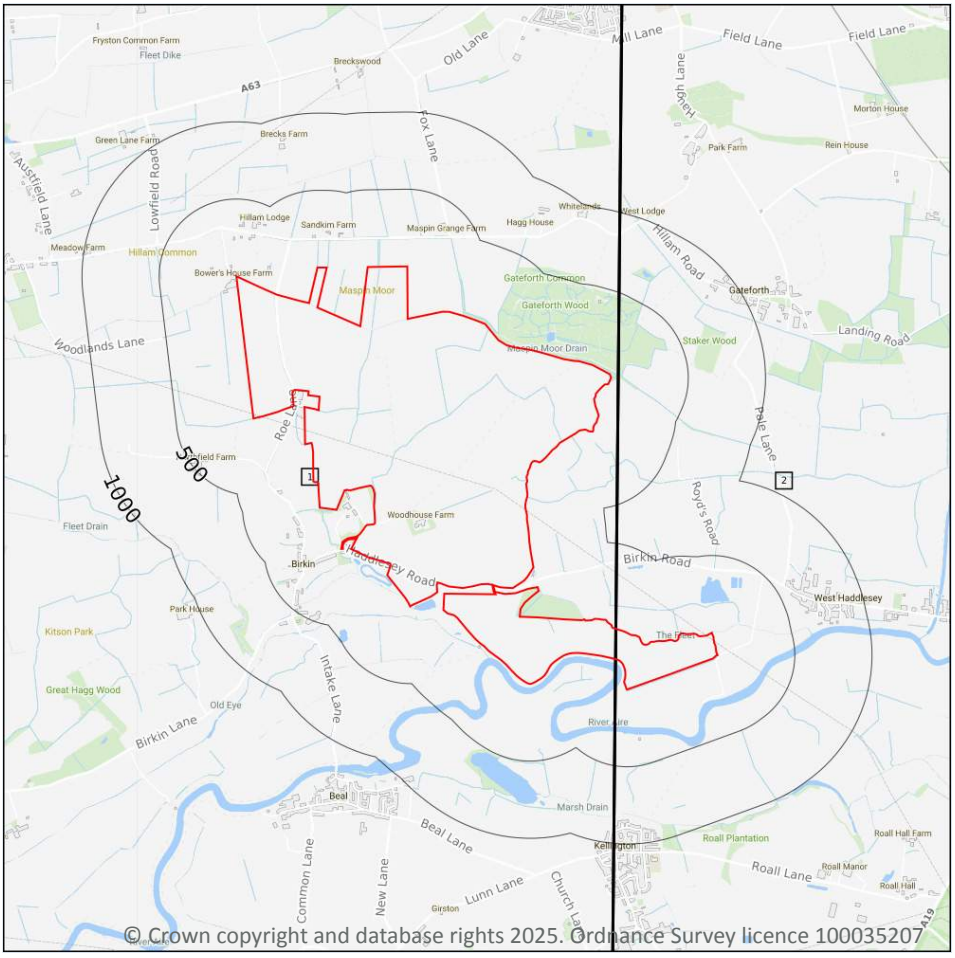
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 15 >**

ID	Location	Category	Description
7	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
8	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
9	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
10	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
11	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
12	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
13	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
16	282m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	383m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side

ID	Location	Category	Description
19	423m S	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

2 Geology 1:50,000 scale - Availability



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2.1 50k Availability

Records within 500m	2

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 18 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW078_wakefield_v4
2	On site	No coverage	Full	Full	No coverage	EW079_goole_v4

This data is sourced from the British Geological Survey.

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

2.2 Artificial and made ground (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

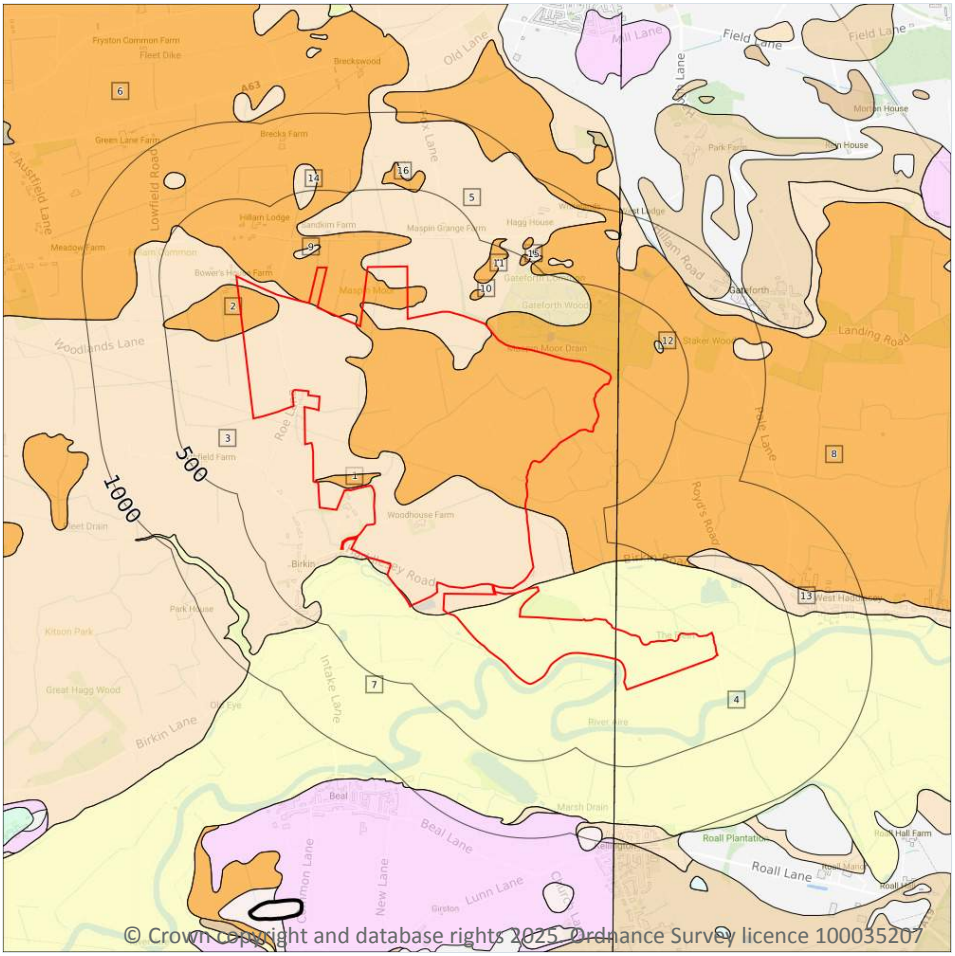
2.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

2.4 Superficial geology (50k)

Records within 500m	16

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 20 >**

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
2	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
3	On site	BREI-S	BREIGHTON SAND FORMATION	SAND
4	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
6	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
7	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
8	46m NE	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
9	97m NW	BREI-S	BREIGHTON SAND FORMATION	SAND
10	120m N	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
11	238m N	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
12	342m NE	BREI-S	BREIGHTON SAND FORMATION	SAND
13	373m SE	BREI-S	BREIGHTON SAND FORMATION	SAND
14	391m NW	BREI-S	BREIGHTON SAND FORMATION	SAND
15	447m NE	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
16	484m N	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY

This data is sourced from the British Geological Survey.

2.5 Superficial permeability (50k)

Records within 50m **7**

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**	**Very Low**
On site	**Intergranular**	**High**	**Very Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**

This data is sourced from the British Geological Survey.

2.6 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.

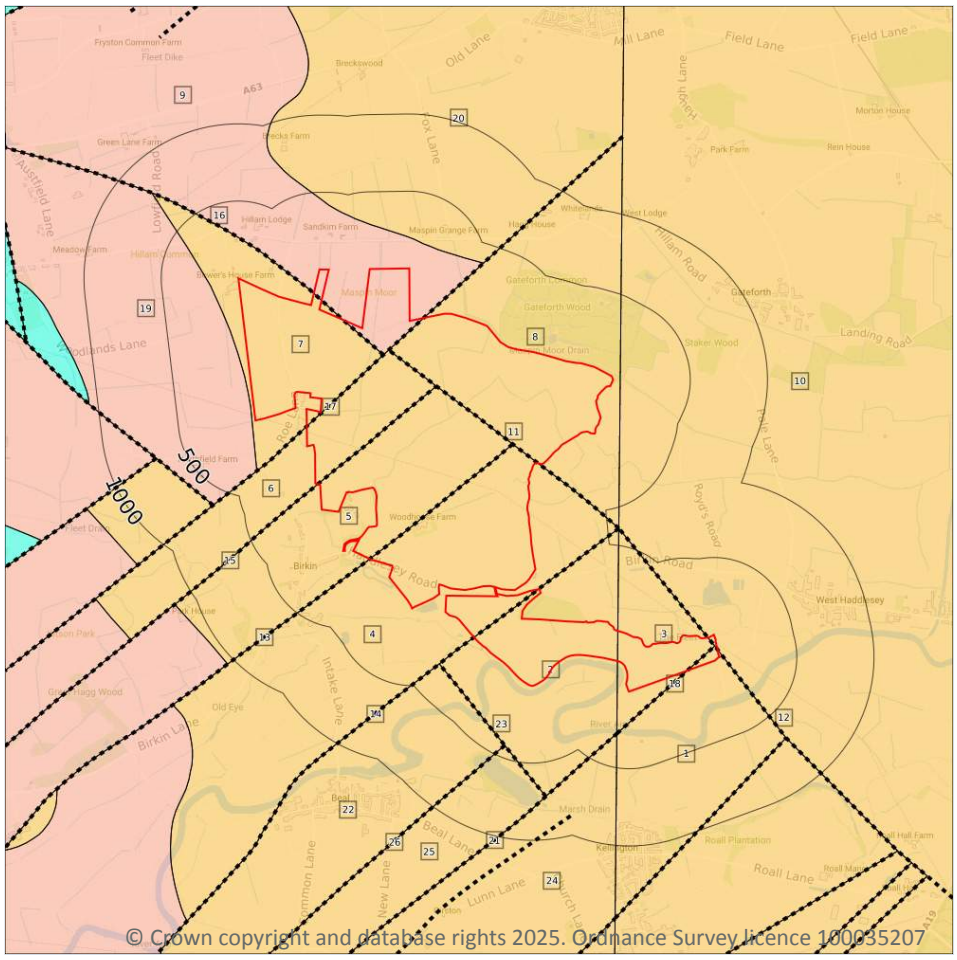
2.7 Landslip permeability (50k)

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.

2.8 Bedrock geology (50k)

Records within 500m	15

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 23 >**

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
2	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
3	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
4	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

ID	Location	LEX Code	Description	Rock age
5	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
6	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
7	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
8	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
9	**On site**	**ROX-CAMDST**	**ROXBY FORMATION - MUDSTONE, CALCAREOUS**	**-**
10	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
19	20m W	ROX-CAMDST	ROXBY FORMATION - MUDSTONE, CALCAREOUS	-
20	183m N	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
22	283m S	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
24	283m SE	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
25	422m S	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.

2.9 Bedrock permeability (50k)

Records within 50m **3**

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	**Mixed**	**High**	**High**
On site	**Mixed**	**High**	**High**
On site	**Fracture**	**Very High**	**Low**

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m	**11**

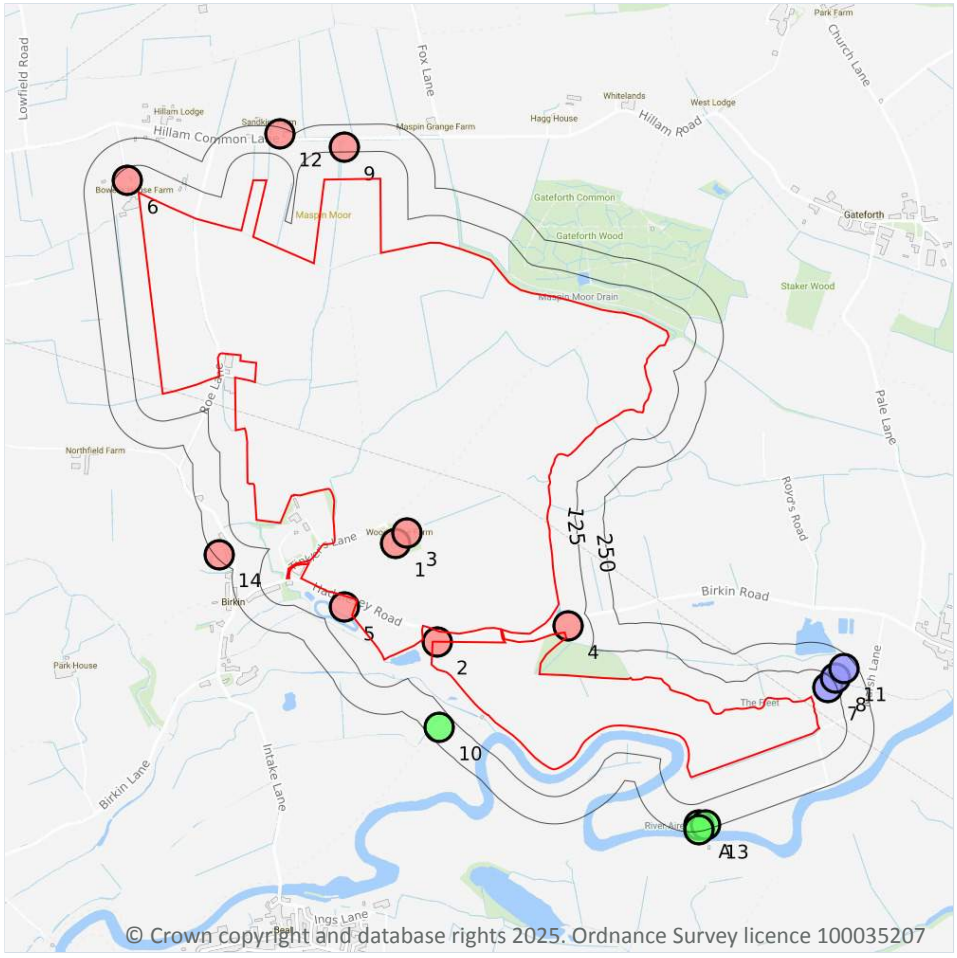
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 23 >**

ID	Location	Category	Description
11	**On site**	**FAULT**	**Fault, inferred**
12	**On site**	**FAULT**	**Fault, inferred**
13	**On site**	**FAULT**	**Fault, inferred**
14	**On site**	**FAULT**	**Fault, inferred**
15	**On site**	**FAULT**	**Fault, inferred**
16	**On site**	**FAULT**	**Fault, inferred**
17	**On site**	**FAULT**	**Fault, inferred**
18	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
21	281m SE	FAULT	Fault, inferred
23	283m S	FAULT	Fault, inferred
26	422m S	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

3 Boreholes



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3.1 BGS Boreholes

Records within 250m	16

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.

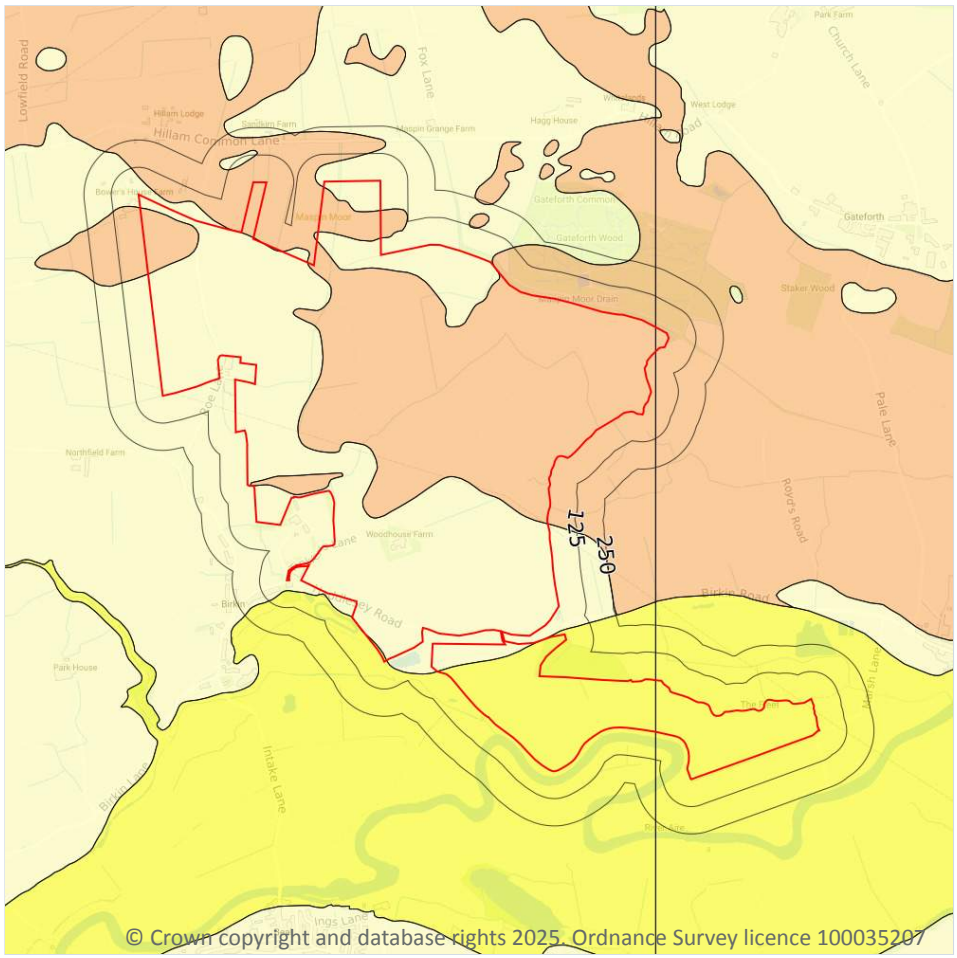
Features are displayed on the Boreholes map on **page 26 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	453807 427149	WOODHOUSE WALKER FARM BIRKIN	42.67	N	116926 ↗
2	On site	454000 426700	BIRKIN	42.7	N	18533855 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	**On site**	**453860 427200**	**SIDDLE FARM OFFICE COMMON LANE MONK FRYSTON LEEDS**	**115.0**	**N**	**18533853** ↗
4	32m SE	454600 426771	MEARLEY CLOUGH	214.27	N	116915 ↗
5	47m SW	453574 426859	BIRKIN	594.36	N	116951 ↗
6	75m NW	452583 428813	BOWERS HOUSE	578.41	N	116950 ↗
7	87m SE	455788 426490	YORKSHIRE DERWENT AQUEDUCT 304	3.0	N	116875 ↗
8	142m SE	455825 426534	YORKSHIRE DERWENT AQUEDUCT 303	4.0	N	116874 ↗
9	147m N	453575 428965	HILLAM AND MONK FRYSTON AH/S1	56.08	N	116935 ↗
10	192m S	454010 426310	BEAL 7	11.0	N	117001 ↗
11	198m SE	455862 426578	YORKSHIRE DERWENT AQUEDUCT 302	3.0	N	116873 ↗
12	221m NW	453278 429026	MASPIN MOOR SURFACE BH	188.52	N	116969 ↗
A	223m SE	455200 425860	NORTH OF KELLINGTON BH3	20.11	N	116841 ↗
13	230m SE	455230 425860	NORTH OF KELLINGTON BH4	20.26	N	116842 ↗
14	234m SW	453000 427100	FARM W.SIDE OF ??????? ??? ABOVE RECTORY	36.58	N	18533523 ↗
A	243m SE	455200 425840	NORTH OF KELLINGTON BH2	23.46	N	116840 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

4.1 Shrink swell clays

Records within 50m	3

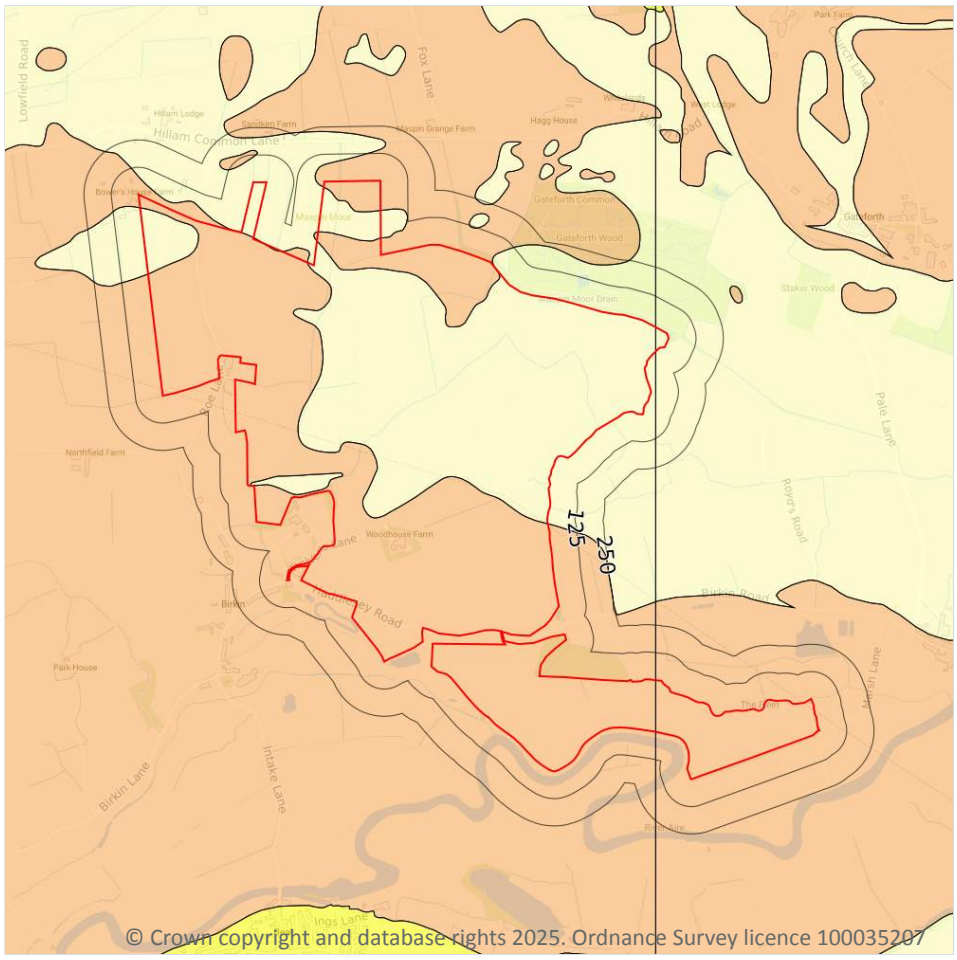
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 28 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

4.2 Running sands

Records within 50m	2

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

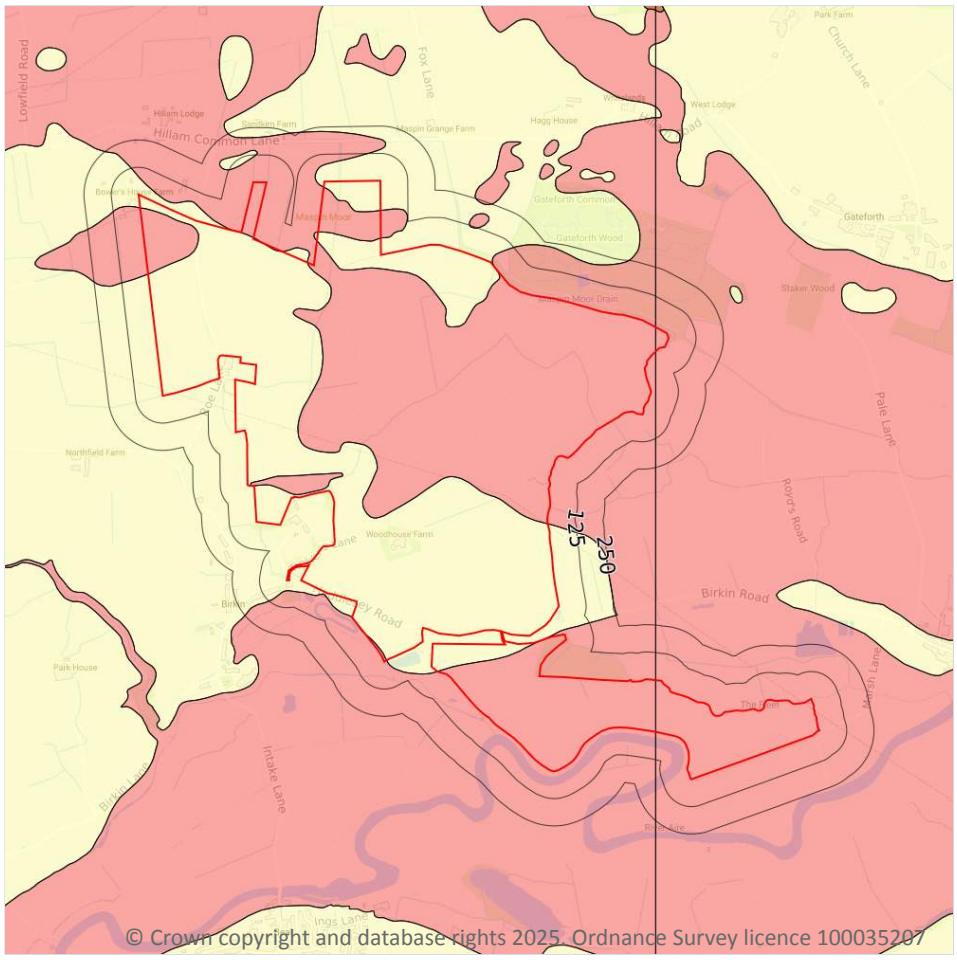
Features are displayed on the Natural ground subsidence - Running sands map on **page 30 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

4.3 Compressible deposits

Records within 50m	2

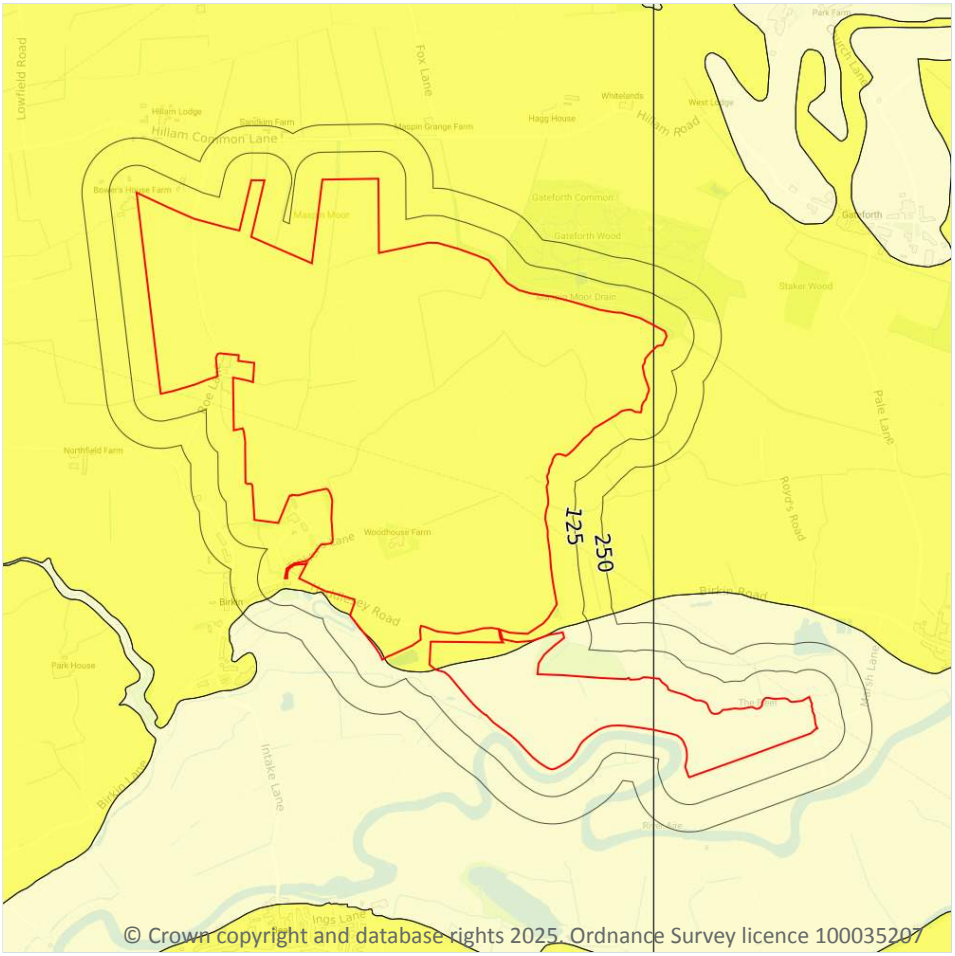
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 32 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



4.4 Collapsible deposits

Records within 50m	2

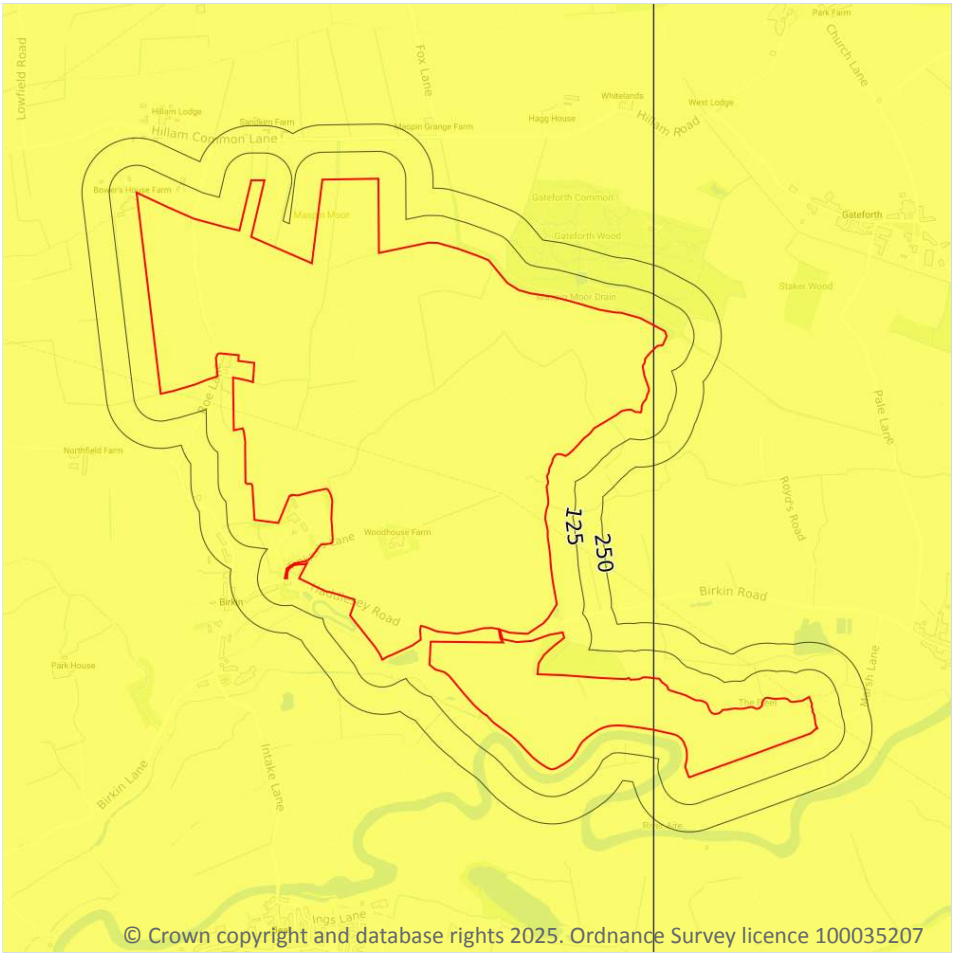
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 34 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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4.5 Landslides

Records within 50m	1

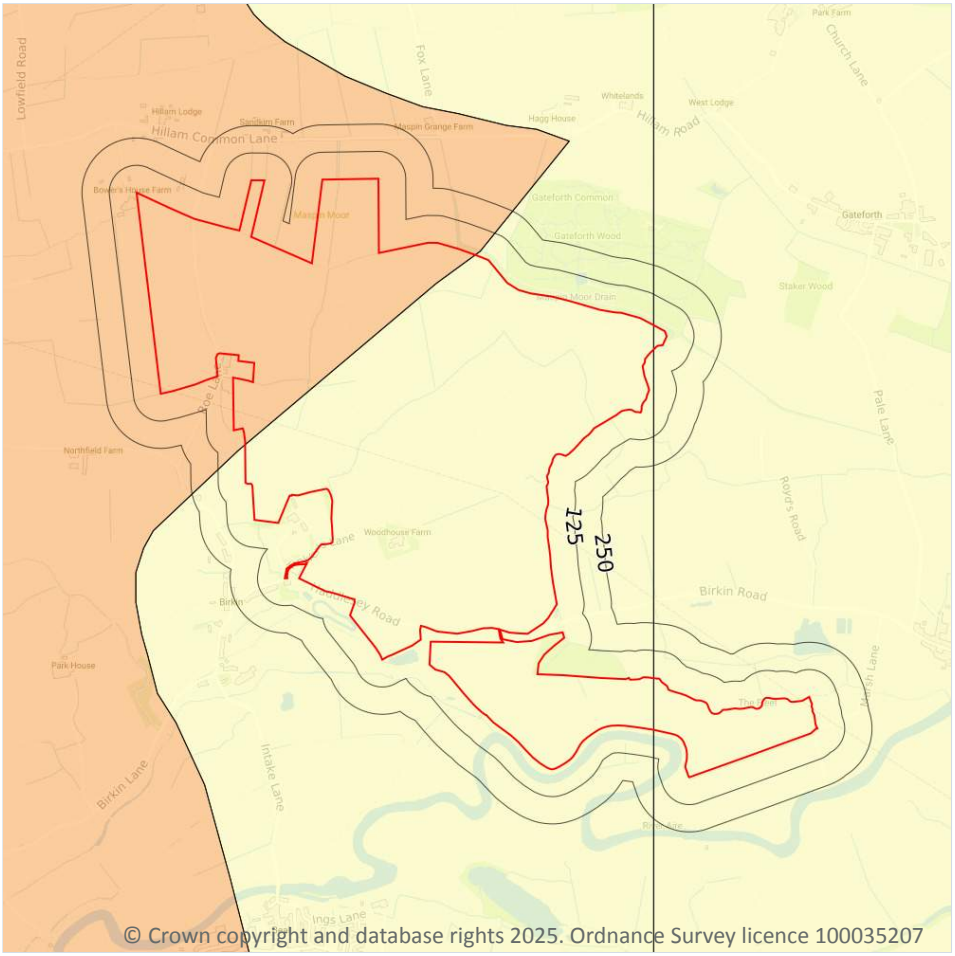
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 35 >**

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

4.6 Ground dissolution of soluble rocks

Records within 50m	2

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.

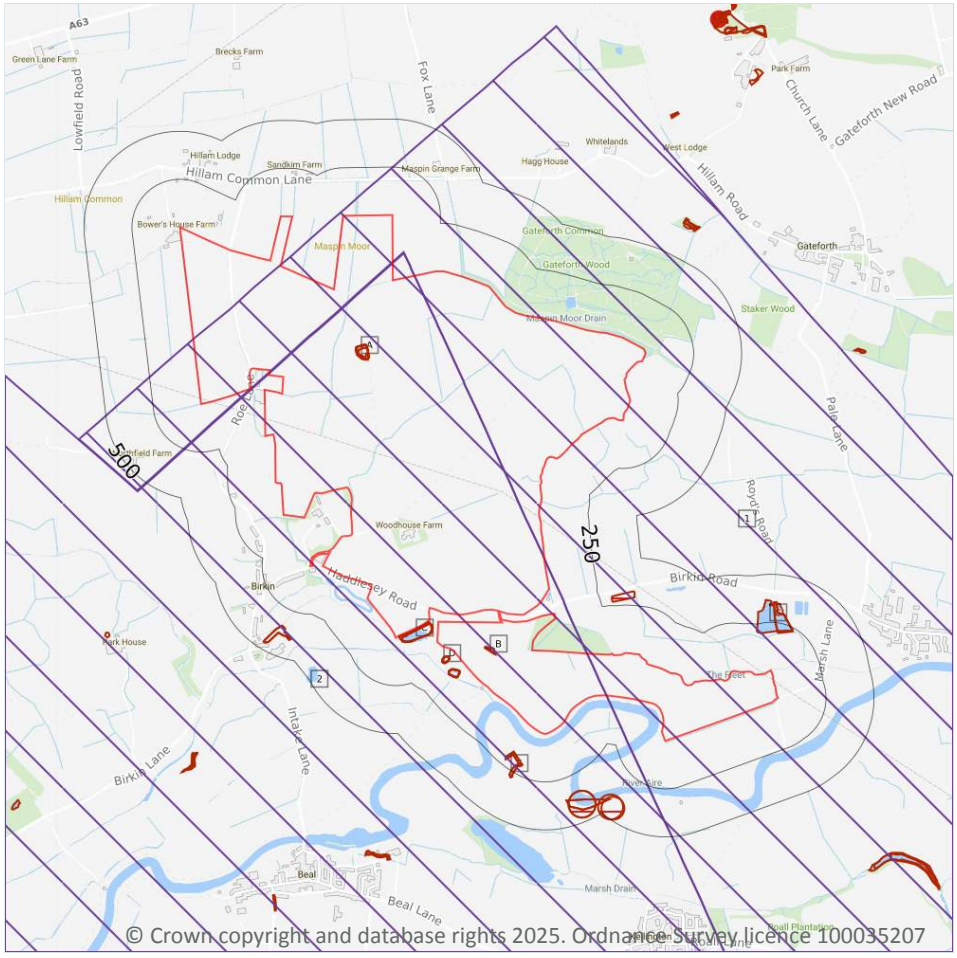
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 36 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**

This data is sourced from the British Geological Survey.

5 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

5.1 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

5.2 Surface ground workings

Records within 250m	27

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

Features are displayed on the Mining and ground workings map on **page 38 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Unspecified Ground Workings**	**1958**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1950**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1908**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1908**	**1:10560**
B	**On site**	**Unspecified Pit**	**1958**	**1:10560**
B	**On site**	**Unspecified Pit**	**1950**	**1:10560**
B	**On site**	**Unspecified Pit**	**1908**	**1:10560**
B	**On site**	**Unspecified Pit**	**1908**	**1:10560**
C	3m S	Pond	1958	1:10560
C	3m S	Pond	1950	1:10560
C	10m S	Pond	1987	1:10000
C	10m S	Pond	1968	1:10560
D	37m S	Pond	1950	1:10560
D	38m S	Pond	1987	1:10000
D	38m S	Pond	1968	1:10560
D	38m S	Pond	1958	1:10560
D	38m S	Pond	1908	1:10560
E	43m S	Pond	1950	1:10560
E	45m S	Pond	1908	1:10560
E	45m S	Pond	1987	1:10000
E	45m S	Pond	1968	1:10560
E	45m S	Pond	1958	1:10560
F	162m S	Unspecified Heap	1908	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
F	162m S	Unspecified Heap	1908	1:10560
G	198m SE	Pond	1973	1:10000
G	199m SE	Ponds	1957	1:10560
G	200m SE	Ponds	1950	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

5.3 Underground workings

Records within 1000m	**0**

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

This is data is sourced from Ordnance Survey/Groundsure.

5.4 Underground mining extents

Records within 500m	**0**

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

This data is sourced from Groundsure.

5.5 Historical Mineral Planning Areas

Records within 500m	**2**

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 and ground workings map on **page 38 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	**On site**	**Kellingley colliery**	**Coal (deep)**	**Working is wholly underground**	**Application**	**Not available**
2	**On site**	**Kellingley colliery**	**Coal (deep)**	**Working is wholly underground**	**Valid**	**Not available**

This data is sourced from the British Geological Survey.

5.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

5.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

5.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

5.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

5.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

5.12 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

5.13 Brine areas

Records on site	0

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

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

5.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

5.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

5.16 Clay mining

Records on site	0

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

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

6 Ground cavities and sinkholes

6.1 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.

6.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

6.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

6.4 Historical incidents

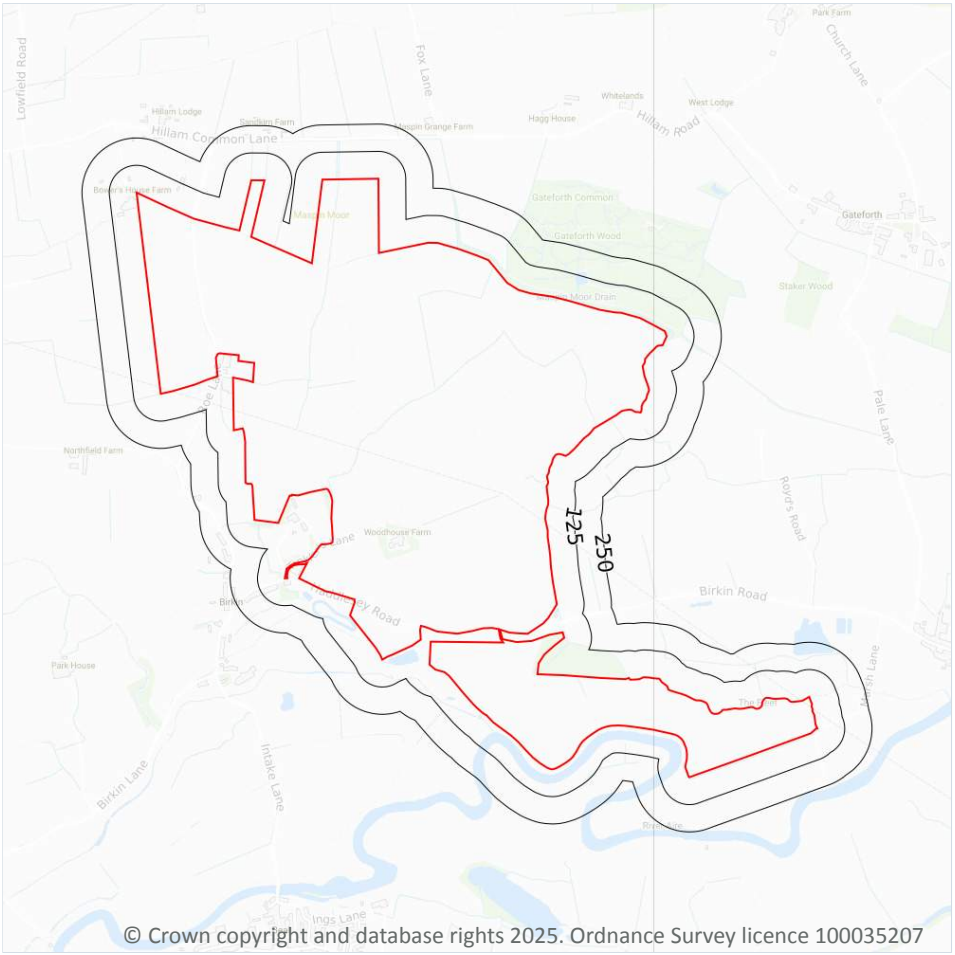
Records within 500m	0

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

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

This data is sourced from Groundsure.

7 Radon



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7.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 46 >**

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

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

8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m	109

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
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On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
4m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
4m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
12m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
12m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
17m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
21m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
25m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
26m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
46m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

8.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

9 Railway infrastructure and projects

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

9.4 Historical railway and tunnel features

Records within 250m	0

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.

This data is sourced from Ordnance Survey/Groundsure.

9.5 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.

9.6 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.

9.7 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.

9.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

9.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

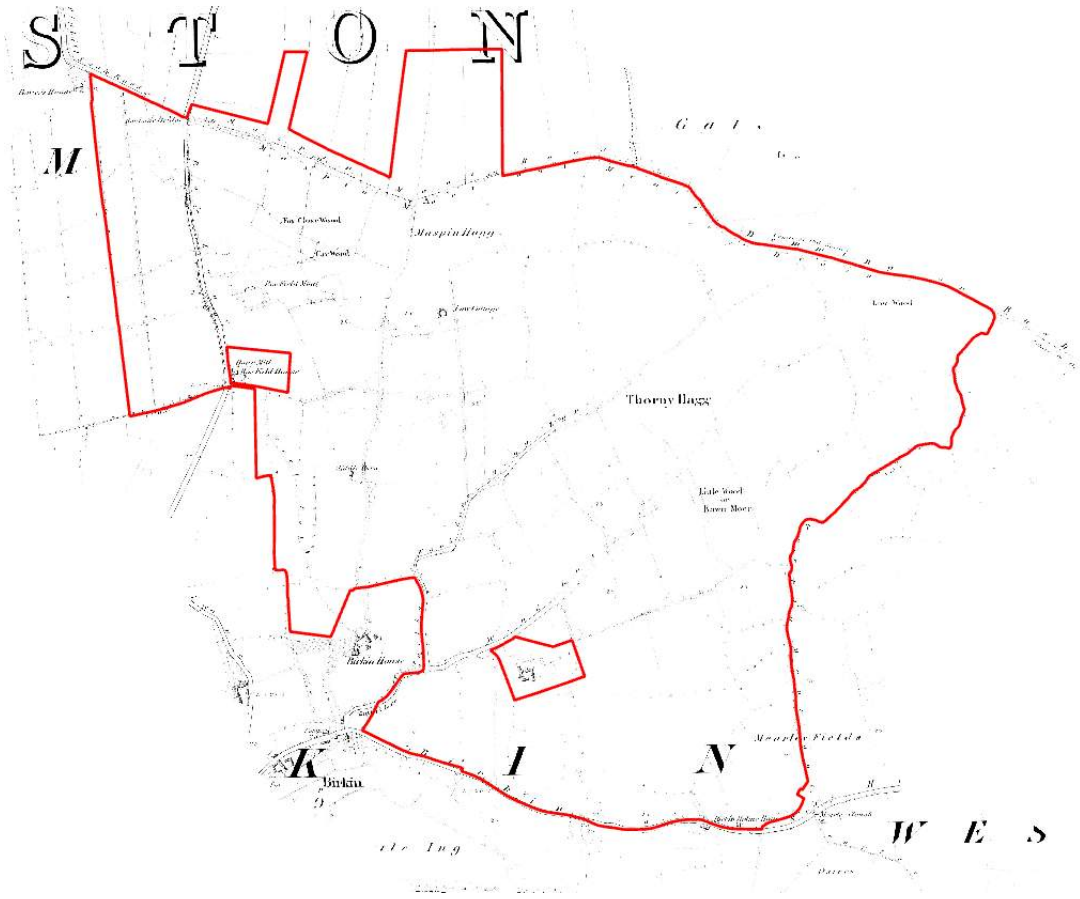
Data providers

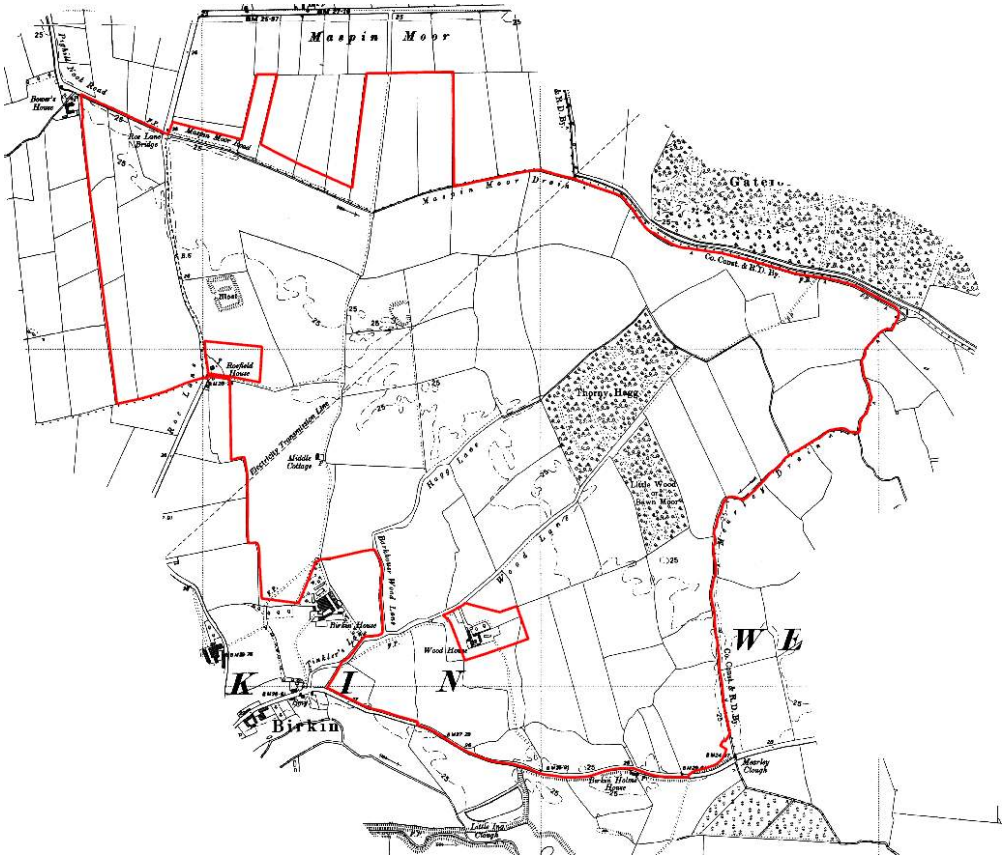
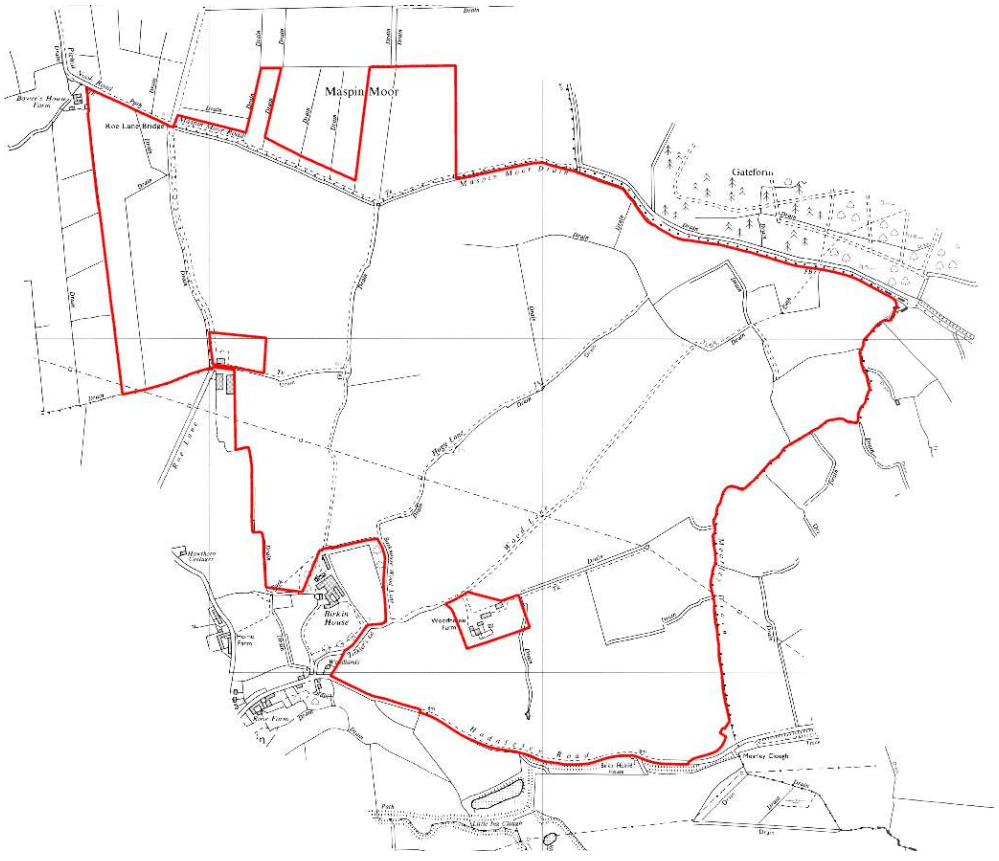
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

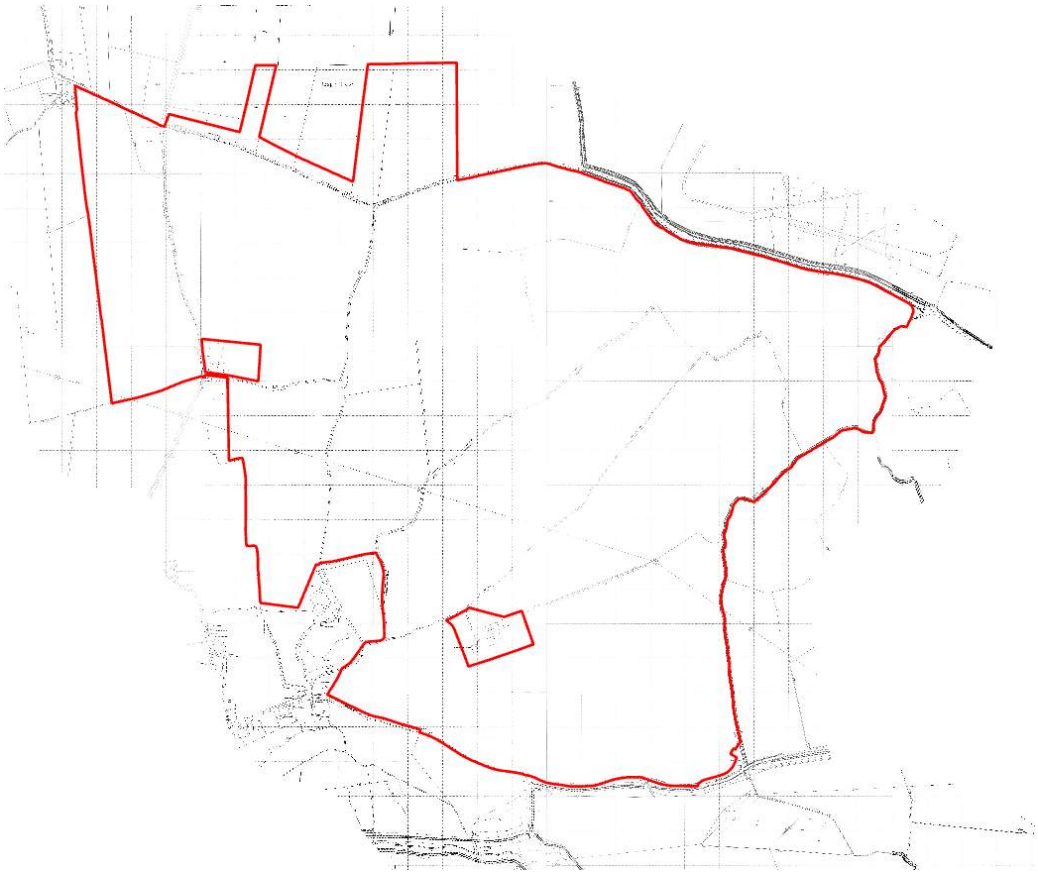
Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

D.2. Historical Maps

Map date Scale	Map extract
1852 1:10,560 © Groundsure Ltd	

Map date Scale	Map extract
1950 1:10,560 © Groundsure Ltd	
1973 -1987 1:10,000 © Groundsure Ltd	

Map date Scale	Map extract
1995 1:2,500 © Groundsure Ltd	
2002 © Google Earth	

Map date Scale	Map extract
2025 © Google Earth	

D.3. Consultants Coal Mining Report

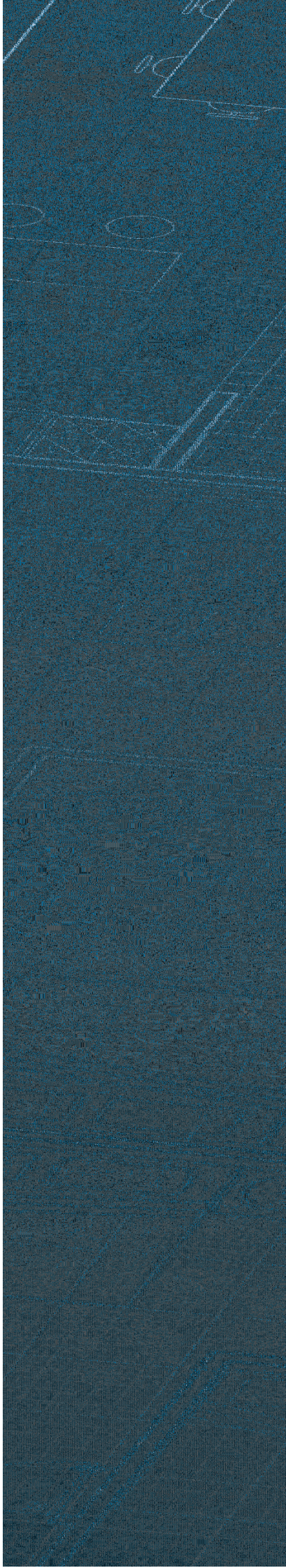
The Coal Authority

Consultants

Coal Mining Report

302939-00 Lvs - Site 4
North Yorkshire

Date of enquiry:	**9 January 2025**
Date enquiry received:	**9 January 2025**
Issue date:	**9 January 2025**
Our reference:	**51003472145001**
Your reference:	**GS-GDH-454-CS7-MSJ**



Consultants

Coal Mining Report

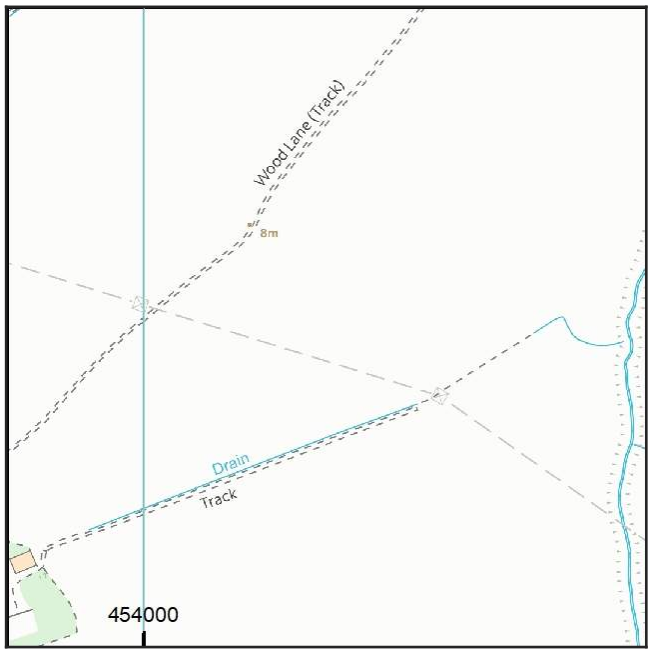
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

302939-00 Lvs - Site 4
North Yorkshire



Approximate position of property

Map data

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
KELLINGLEY	SILKSTONE	Coal	V121	514	South-West	0.5	North-West	250	1992
KELLINGLEY	SILKSTONE	Coal	V123	520	Beneath Property	0.5	North-West	250	1993
KELLINGLEY	TOP BEESTON	Coal	16A	559	South-West	4.8	South-West	295	1983
KELLINGLEY	SILKSTONE	Coal	VW11	620	South	2.8	North	180	1997

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

18339	18340	

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

A damage notice or claim for alleged subsidence damage was made in July 1998 for FLOOD BANK BARRIER NGR SE 535 265, SOUTH OF BIRKIN VILLAGE, SELBY. The claim was settled by repairs to the value of £8,619.32.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

There are a further 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1967, 1973, 1977, 1990 and 1993.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is in an area where a relevant notice (or notices) dated 1977 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1993 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.
The property is in an area where a relevant notice (or notices) dated 1993 has (or have) been published under the Coal Industry Act 1975/Coal Industry Act 1994. However, no notice of a retained interest has been given.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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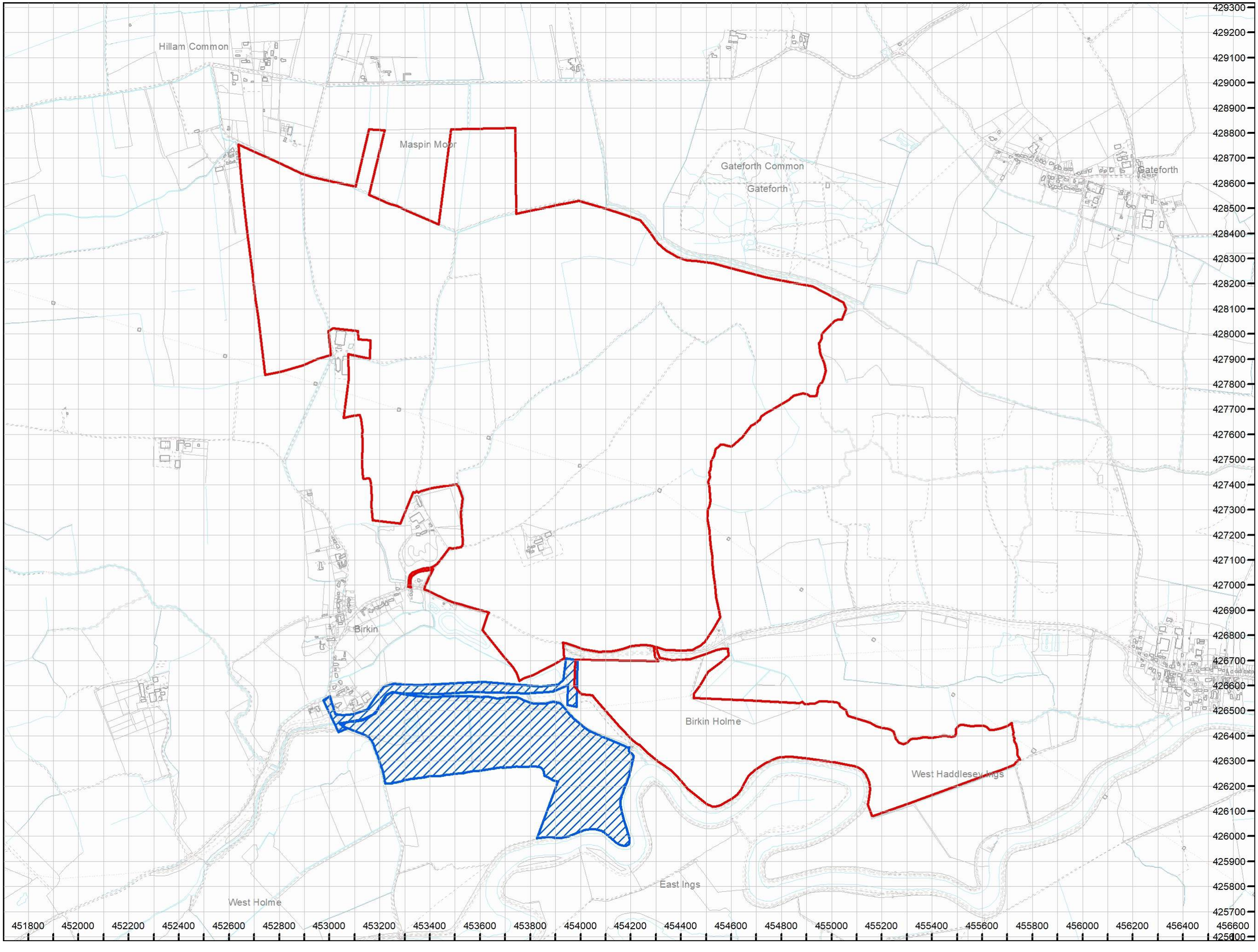
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

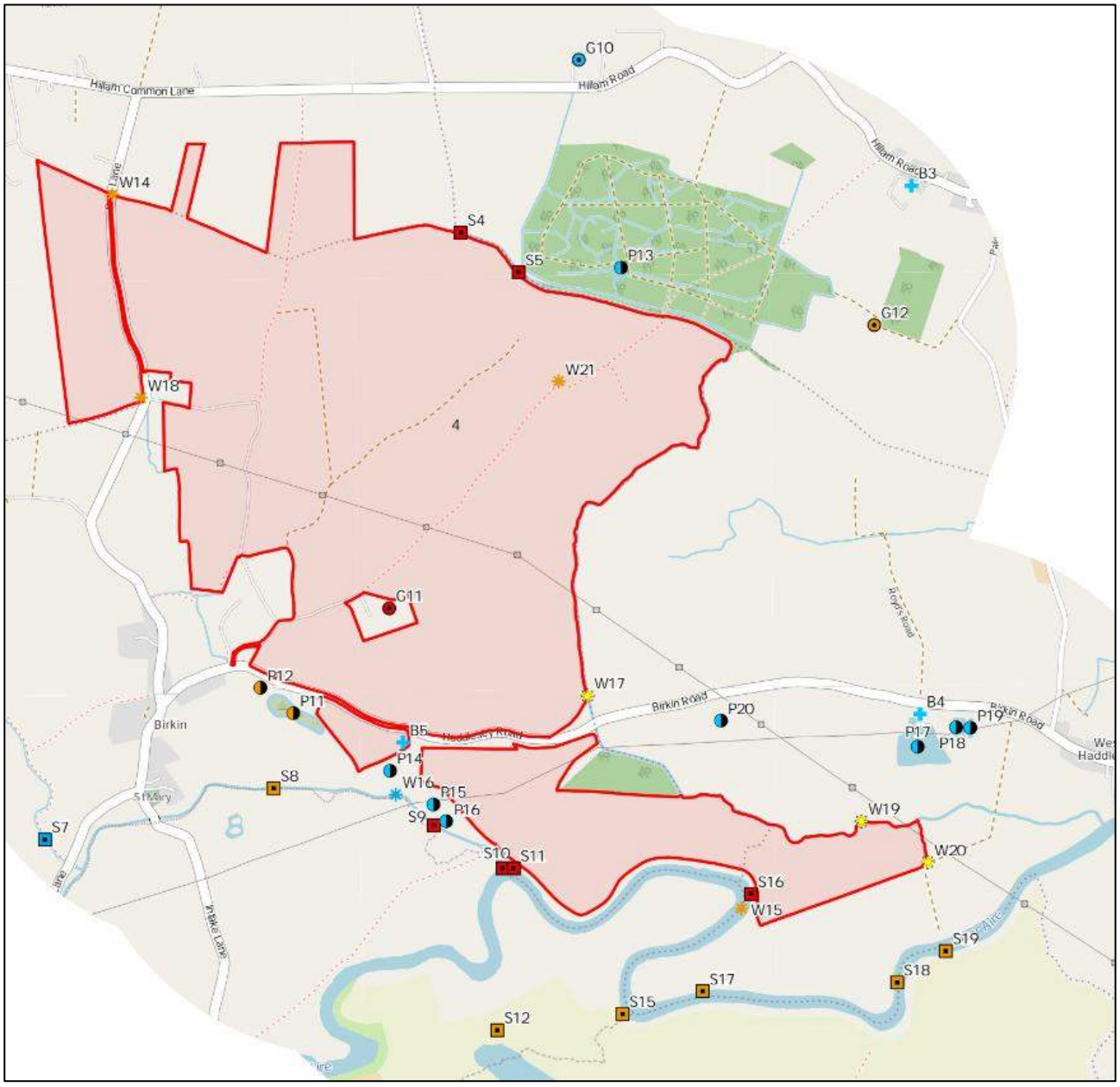
Coal claim



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

D.4. Site Walkover Photos

Photo location IDs



Location ID	Photo
W21	
W17	

Location ID	Photo
B5	
S10	

Location ID	Photo
P11 and P12	
W20	

Annex E Solar Development Site 6 and 7 Site Information

E.1. Groundsure Enviro and Geo Insight Reports

Groundsure LOCATION INTELLIGENCE

Enviro Insight

302939-00 LVS - Site 6 and 7

Order Details

Date: 08/01/2025

Your ref: 302939-00 LVS Site 6&7

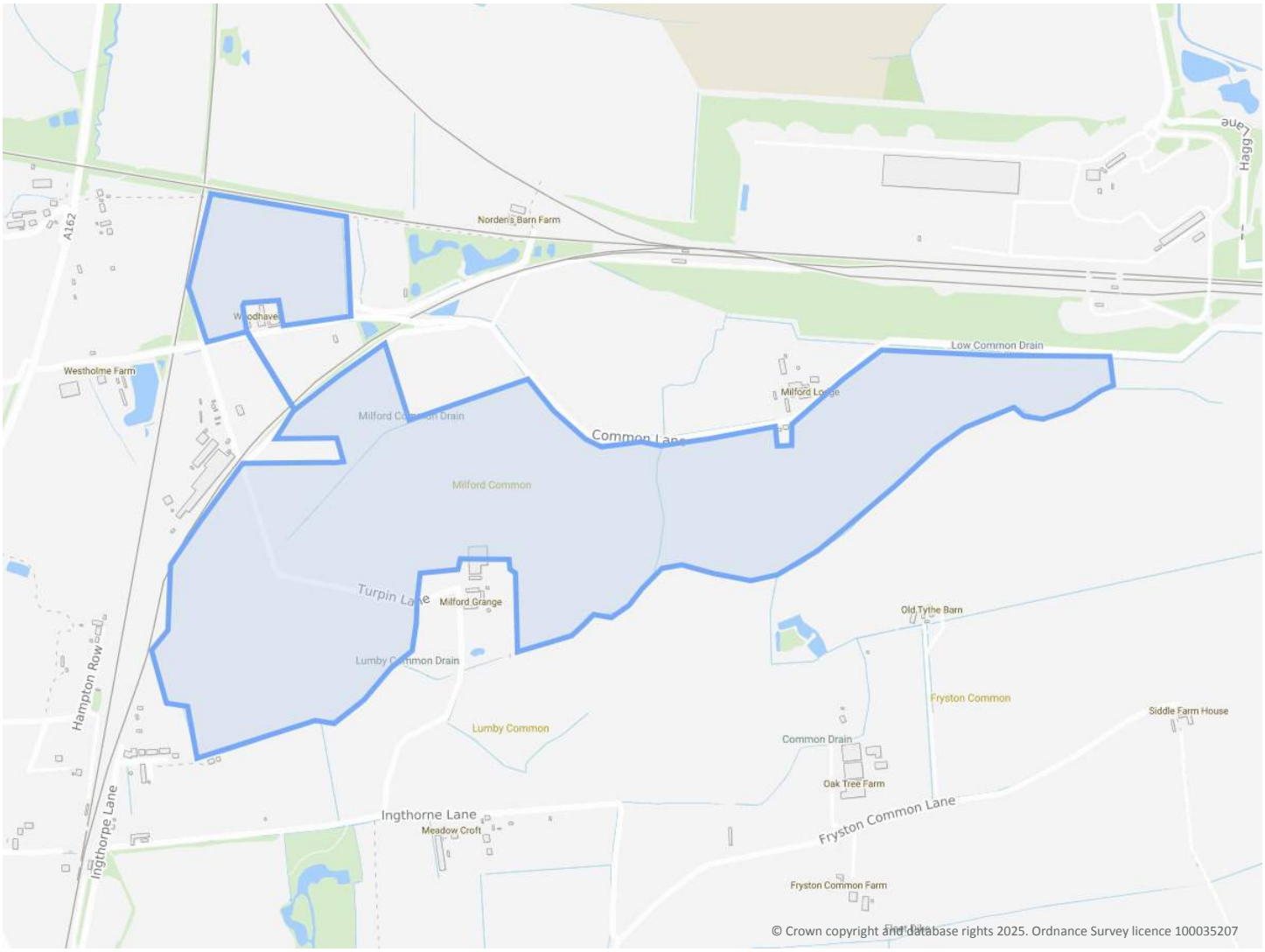
Our Ref: GS-X3H-OEL-W5Q-IL5

Site Details

Location: 451218 431151

Area: 93.09 ha

Authority: The North Yorkshire Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 6 >

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	Historical industrial land uses >	4	10	38	35	-
15 >	1.2 >	Historical tanks >	0	1	6	5	-
16 >	1.3 >	Historical energy features >	0	0	3	3	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	5	13	48	45	-
23 >	2.2 >	Historical tanks >	0	2	8	7	-
24 >	2.3 >	Historical energy features >	0	0	4	4	-
24	2.4	Historical petrol stations	0	0	0	0	-
24	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
26	3.5	Historical waste sites	0	0	0	0	-
26 >	3.6 >	Licensed waste sites >	0	0	4	0	-
27 >	3.7 >	Waste exemptions >	10	21	14	40	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
35 >	4.1 >	Recent industrial land uses >	0	1	4	-	-
36	4.2	Current or recent petrol stations	0	0	0	0	-
36	4.3	Electricity cables	0	0	0	0	-
36	4.4	Gas pipelines	0	0	0	0	-
36	4.5	Sites determined as Contaminated Land	0	0	0	0	-

37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
37	4.7	Regulated explosive sites	0	0	0	0	-
37	4.8	Hazardous substance storage/usage	0	0	0	0	-
37	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
37 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	16	1	-
41 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	1	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
42 >	4.13 >	Licensed Discharges to controlled waters >	0	1	4	4	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
44	4.15	Pollutant release to public sewer	0	0	0	0	-
44	4.16	List 1 Dangerous Substances	0	0	0	0	-
44	4.17	List 2 Dangerous Substances	0	0	0	0	-
44 >	4.18 >	Pollution Incidents (EA/NRW) >	1	1	3	2	-
45 >	4.19 >	Pollution inventory substances >	0	0	3	0	-
47 >	4.20 >	Pollution inventory waste transfers >	0	0	2	0	-
50	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Geology (basic) >					
52 >	5.1 >	Superficial geology (625k) >	Identified (within 500m)				
52 >	5.2 >	Bedrock geology (625k) >	Identified (within 500m)				

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
53 >	6.1 >	Superficial aquifer >	Identified (within 500m)				
55 >	6.2 >	Bedrock aquifer >	Identified (within 500m)				
57 >	6.3 >	Groundwater vulnerability >	Identified (within 50m)				
59 >	6.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
60	6.5	Groundwater vulnerability- local information	None (within 0m)				
61 >	6.6 >	Groundwater abstractions >	0	2	12	20	32
77 >	6.7 >	Surface water abstractions >	2	0	2	1	10
81	6.8	Potable abstractions	0	0	0	0	0
81 >	6.9 >	Source Protection Zones >	1	0	1	0	-

81	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
82 >	7.1 >	Water Network (OS MasterMap) >	24	47	45	-	-
92 >	7.2 >	Surface water features >	1	17	26	-	-
92 >	7.3 >	WFD Surface water body catchments >	1	-	-	-	-
92 >	7.4 >	WFD Surface water bodies >	0	0	0	-	-
93 >	7.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	**River and coastal flooding >**	On site	0-50m	50-250m	250-500m	500-2000m
94 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
95 >	8.2 >	Historical Flood Events >	1	0	7	-	-
96	8.3	Flood Defences	0	0	0	-	-
96	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
96	8.5	Flood Storage Areas	0	0	0	-	-
97 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
98 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	**Surface water flooding >**					
99 >	9.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	**Groundwater flooding >**					
101 >	10.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
102 >	11.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
103	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
103	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
103	11.4	Special Protection Areas (SPA)	0	0	0	0	0
103	11.5	National Nature Reserves (NNR)	0	0	0	0	0
104	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
104	11.7	Designated Ancient Woodland	0	0	0	0	0
104	11.8	Biosphere Reserves	0	0	0	0	0
104	11.9	Forest Parks	0	0	0	0	0

105	11.10	Marine Conservation Zones	0	0	0	0	0
105 >	11.11 >	Green Belt >	0	1	0	0	0
105	11.12	Proposed Ramsar sites	0	0	0	0	0
105	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
106	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
106	11.15	Nitrate Sensitive Areas	0	0	0	0	0
106 >	11.16 >	Nitrate Vulnerable Zones >	3	0	0	0	3
107 >	11.17 >	SSSI Impact Risk Zones >	4	-	-	-	-
108 >	11.18 >	SSSI Units >	0	0	0	0	3
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
110	12.1	World Heritage Sites	0	0	0	-	-
111	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
111	12.3	National Parks	0	0	0	-	-
111 >	12.4 >	Listed Buildings >	0	1	0	-	-
112 >	12.5 >	Conservation Areas >	0	0	1	-	-
112	12.6	Scheduled Ancient Monuments	0	0	0	-	-
112	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	13.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
114	13.2	Open Access Land	0	0	0	-	-
114	13.3	Tree Felling Licences	0	0	0	-	-
114 >	13.4 >	Environmental Stewardship Schemes >	1	0	0	-	-
115 >	13.5 >	Countryside Stewardship Schemes >	7	4	3	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
116 >	14.1 >	Priority Habitat Inventory >	0	0	5	-	-
117	14.2	Habitat Networks	0	0	0	-	-
117	14.3	Open Mosaic Habitat	0	0	0	-	-
117	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

Capture Date: 04/04/2023

Site Area: 93.09ha

Recent site history - 2020 aerial photograph

Capture Date: 24/06/2020

Site Area: 93.09ha

Recent site history - 2017 aerial photograph

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Capture Date: 19/09/2017

Site Area: 93.09ha

Recent site history - 2007 aerial photograph

Capture Date: 24/08/2007

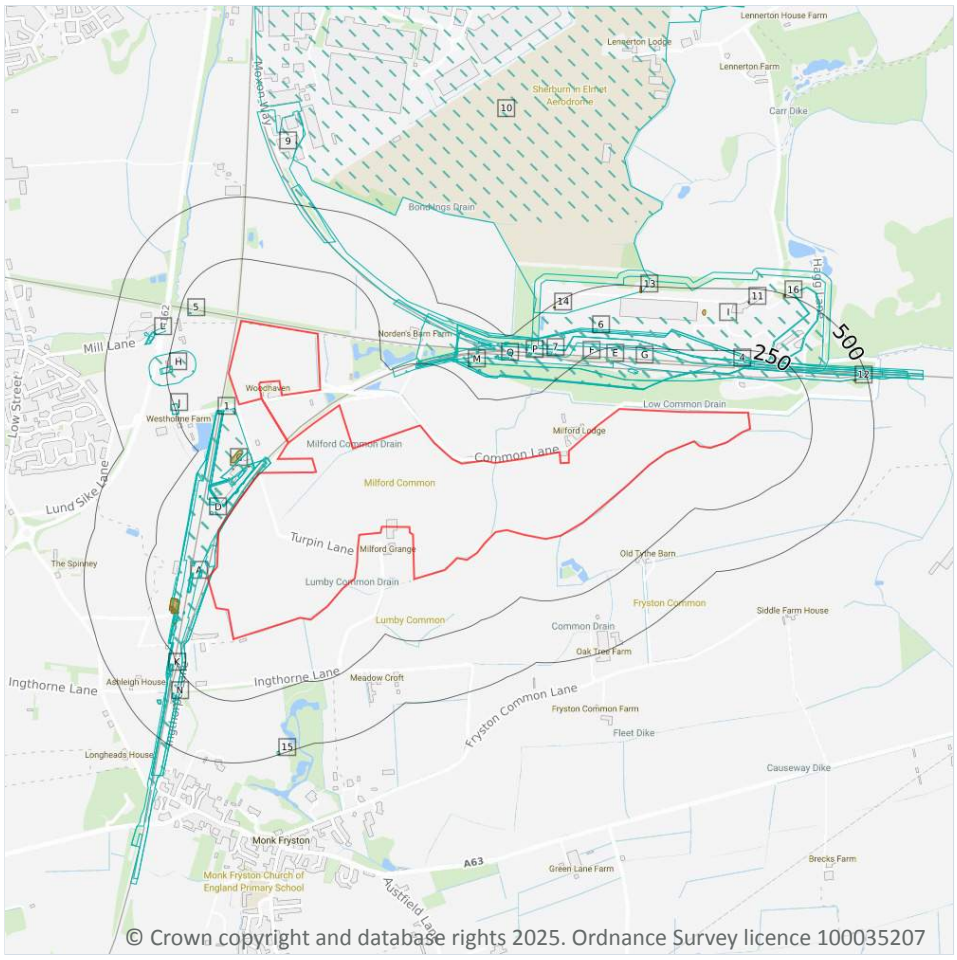
Site Area: 93.09ha

Recent site history - 1999 aerial photograph

Capture Date: 03/05/1999

Site Area: 93.09ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	87

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 11 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Railway Sidings**	**1950**	**1491188**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Railway Sidings**	**1986 - 1994**	**1493977**
B	**On site**	**Railway Sidings**	**1957**	**1504268**
B	**On site**	**Railway Sidings**	**1967**	**1551826**
A	**On site**	**Railway Sidings**	**1908**	**1534640**
C	23m NW	Unspecified Works	1967	1460295
C	24m W	Unspecified Malthouses	1957	1471452
C	24m W	Maltings	1994	1506280
C	24m W	Maltings	1986	1524802
C	25m W	Malthouses	1908 - 1950	1490919
B	27m SW	Railway Building	1950 - 1957	1577554
B	28m SW	Railway Building	1908	1487847
B	31m W	Railway Building	1950	1476518
C	49m W	Filter Beds	1908	1489171
D	56m W	Unspecified Tank	1967	1473618
B	60m W	Junction Station	1957 - 1967	1487503
B	60m W	Junction Station	1908	1533835
B	61m W	Junction Station	1950	1545073
B	61m W	Railway Building	1908	1476516
D	71m W	Railway Building	1950	1476519
B	74m W	Railway Building	1908 - 1950	1580564
1	75m NW	Railway Building	1908 - 1950	1517662
B	76m W	Railway Building	1957	1566015
E	82m NE	Railway Sidings	1950	1481400
E	82m NE	Railway Sidings	1950	1481401
F	84m NE	Railway Sidings	1967	1514660
F	86m NE	Railway Sidings	1957	1528261
C	100m W	Unspecified Tanks	1994	1443644
G	119m NE	Railway Sidings	1986	1487631

ID	Location	Land use	Dates present	Group ID
G	119m NE	Railway Sidings	1994	1495600
A	126m SW	Railway Building	1908	1476512
2	133m W	Railway Building	1908 - 1950	1574354
A	135m SW	Unspecified Works	1957	1460590
H	136m NW	Unspecified Works	1967	1460800
A	136m SW	Gas Works	1908 - 1950	1501997
A	140m SW	Railway Building	1967	1476511
3	144m NE	Railway Building	1950 - 1957	1576426
A	155m SW	Railway Buildings	1950 - 1957	1527299
A	155m SW	Railway Buildings	1967	1567232
E	156m E	Railway Sidings	1908	1506031
A	161m SW	Unspecified Tank	1950	1473619
A	162m SW	Gasometer	1908	1437085
A	177m SW	Railway Buildings	1950 - 1957	1491607
I	184m E	Unspecified Mine	1986	1564457
4	195m E	Railway Building	1908	1476954
5	204m NW	Railway Buildings	1950	1436280
I	208m E	Unspecified Mine	1994	1499057
H	227m NW	Sewage Works	1950	1543769
H	227m NW	Sewage Works	1908	1539884
J	236m W	Pumping Station	1994	1506369
J	236m W	Pumping Station	1986	1546461
E	238m NE	Railway Building	1908	1476952
K	264m SW	Railway Building	1994	1550445
K	265m SW	Railway Building	1986	1517512
K	267m SW	Railway Building	1967	1496507
K	286m SW	Railway Building	1957	1494627
L	288m NW	Unspecified Mill	1950 - 1957	1503292

ID	Location	Land use	Dates present	Group ID
K	292m SW	Railway Building	1908 - 1950	1523683
M	311m NE	Railway Building	1950	1476948
6	322m NE	Unspecified Ground Workings	1908	1509840
M	323m NE	Railway Building	1950	1476947
N	325m SW	Railway Buildings	1908 - 1950	1554725
L	326m NW	Unspecified Mill	1967	1534587
L	327m NW	Unspecified Mill	1908	1552732
7	343m NE	Railway Building	1908	1476953
M	345m NE	Railway Building	1950	1476944
8	363m NE	Railway Building	1967	1476950
9	366m N	Railway Sidings	1950	1574083
M	371m NE	Railway Building	1908 - 1950	1566723
O	385m SW	Pumping Station	1994	1494281
O	385m SW	Pumping Station	1986	1552390
P	391m NE	Railway Building	1908	1566778
P	391m NE	Railway Building	1950 - 1957	1497553
Q	403m NE	Railway Building	1986	1514756
Q	403m NE	Railway Building	1994	1563795
M	407m NE	Marshalling Yard	1967	1447509
M	408m NE	Railway Building	1950	1476945
Q	409m NE	Railway Building	1908	1526281
Q	409m NE	Railway Building	1950	1577460
Q	417m NE	Railway Building	1957	1544820
Q	423m NE	Railway Building	1950	1476946
P	423m NE	Railway Building	1908 - 1950	1557219
Q	427m NE	Railway Building	1957	1476949
10	431m NE	Disused Airfield	1957 - 1967	1511088
Q	464m NE	Railway Building	1908 - 1950	1565948

ID	Location	Land use	Dates present	Group ID
Q	469m NE	Railway Building	1957	1476951
15	487m SW	Magazine	1950	1448064

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**12**

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 11 >**

ID	Location	Land use	Dates present	Group ID
C	47m W	Unspecified Tank	1984 - 1993	247257
C	91m W	Unspecified Tank	1984 - 1993	245044
C	104m W	Tanks	1993	235208
A	136m SW	Gas Works	1891 - 1908	245828
A	161m SW	Gasometer	1891	237254
A	167m SW	Gasometer	1908	237253
A	176m SW	Unspecified Tank	1961	240360
I	392m NE	Tanks	1995	233792
12	443m E	Unspecified Tank	1986	241048
13	474m NE	Unspecified Tank	1986 - 1995	259569
14	483m NE	Tanks	1985	235377
16	488m NE	Tanks	1986 - 1995	247836

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	6

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

Features are displayed on the Past land use map on **page 11 >**

ID	Location	Land use	Dates present	Group ID
A	136m SW	Gas Works	1891 - 1908	145734
A	161m SW	Gasometer	1891	141871
A	167m SW	Gasometer	1908	141873
N	353m SW	Electricity Substation	1995	157539
N	354m SW	Electricity Substation	1984	158680
11	443m NE	Electricity Substation	1986 - 1995	148665

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

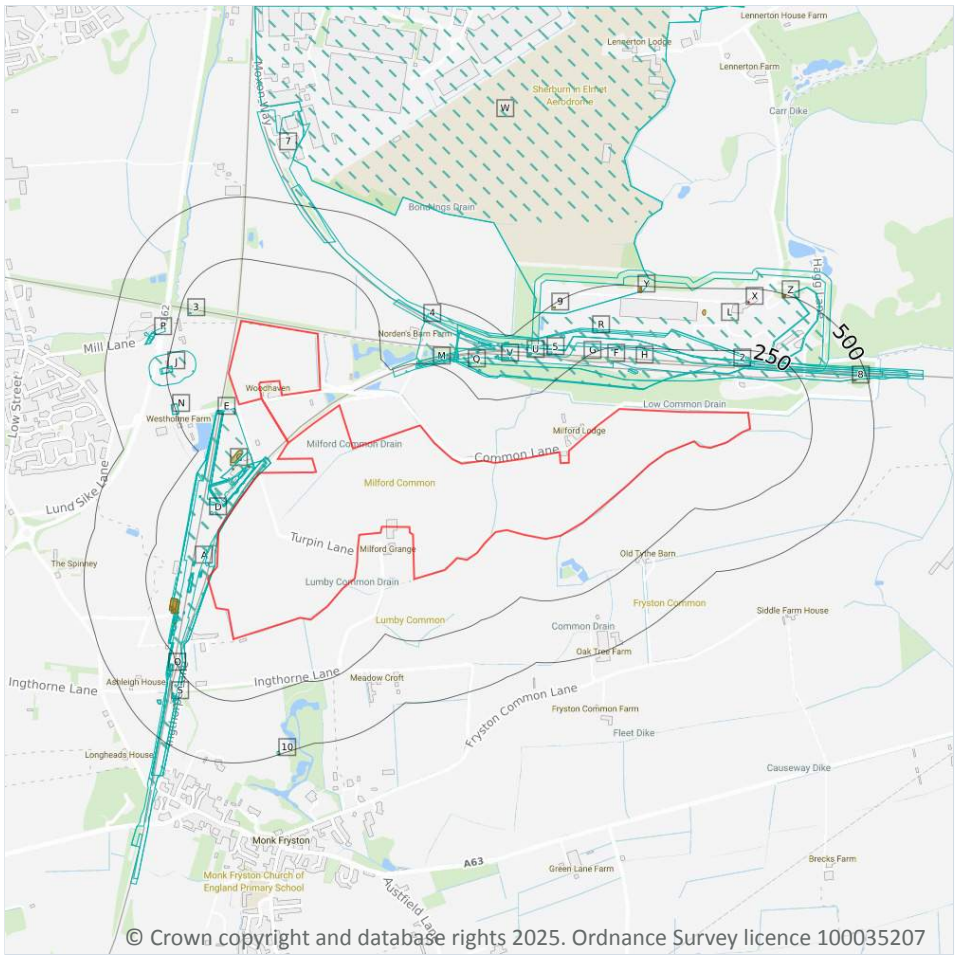
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	111

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

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

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Sidings**	**1967**	**1551826**
A	**On site**	**Railway Sidings**	**1957**	**1504268**
A	**On site**	**Railway Sidings**	**1986**	**1493977**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Sidings**	**1994**	**1493977**
B	**On site**	**Railway Sidings**	**1950**	**1491188**
B	**On site**	**Railway Sidings**	**1908**	**1534640**
C	23m NW	Unspecified Works	1967	1460295
C	24m W	Unspecified Malthouses	1957	1471452
C	24m W	Maltings	1986	1524802
C	24m W	Maltings	1994	1506280
C	25m W	Malthouses	1908	1490919
A	27m SW	Railway Building	1957	1577554
C	27m W	Malthouses	1950	1490919
A	28m SW	Railway Building	1950	1577554
A	28m SW	Railway Building	1908	1487847
A	31m W	Railway Building	1950	1476518
C	49m W	Filter Beds	1908	1489171
C	49m W	Filter Beds	1908	1489171
D	56m W	Unspecified Tank	1967	1473618
A	60m W	Junction Station	1967	1487503
A	60m W	Junction Station	1957	1487503
A	60m W	Junction Station	1908	1533835
A	61m W	Junction Station	1950	1545073
A	61m W	Railway Building	1908	1476516
D	71m W	Railway Building	1950	1476519
A	74m W	Railway Building	1908	1580564
E	75m NW	Railway Building	1908	1517662
E	75m NW	Railway Building	1950	1517662
A	76m W	Railway Building	1957	1566015
A	76m W	Railway Building	1950	1580564
F	82m NE	Railway Sidings	1950	1481400

ID	Location	Land Use	Date	Group ID
G	84m NE	Railway Sidings	1967	1514660
G	86m NE	Railway Sidings	1957	1528261
C	100m W	Unspecified Tanks	1994	1443644
H	119m NE	Railway Sidings	1986	1487631
H	119m NE	Railway Sidings	1994	1495600
B	126m SW	Railway Building	1908	1476512
I	133m W	Railway Building	1908	1574354
I	134m W	Railway Building	1950	1574354
B	135m SW	Unspecified Works	1957	1460590
J	136m NW	Unspecified Works	1967	1460800
B	136m SW	Gas Works	1908	1501997
B	138m SW	Gas Works	1950	1501997
B	140m SW	Railway Building	1967	1476511
K	144m NE	Railway Building	1950	1576426
K	147m NE	Railway Building	1957	1576426
B	155m SW	Railway Buildings	1957	1527299
B	155m SW	Railway Buildings	1967	1567232
1	156m E	Railway Sidings	1908	1506031
B	159m SW	Railway Buildings	1950	1527299
B	161m SW	Unspecified Tank	1950	1473619
B	162m SW	Gasometer	1908	1437085
B	177m SW	Railway Buildings	1957	1491607
B	180m SW	Railway Buildings	1950	1491607
L	184m E	Unspecified Mine	1986	1564457
2	195m E	Railway Building	1908	1476954
3	204m NW	Railway Buildings	1950	1436280
L	208m E	Unspecified Mine	1994	1499057
J	227m NW	Sewage Works	1950	1543769

ID	Location	Land Use	Date	Group ID
J	227m NW	Sewage Works	1908	1539884
J	227m NW	Sewage Works	1908	1539884
M	232m N	Railway Sidings	1950	1481401
N	236m W	Pumping Station	1986	1546461
N	236m W	Pumping Station	1994	1506369
F	238m NE	Railway Building	1908	1476952
M	239m N	Railway Sidings	1908	1506031
O	264m SW	Railway Building	1994	1550445
O	265m SW	Railway Building	1986	1517512
O	267m SW	Railway Building	1967	1496507
O	286m SW	Railway Building	1957	1494627
P	288m NW	Unspecified Mill	1957	1503292
O	292m SW	Railway Building	1950	1523683
O	294m SW	Railway Building	1908	1523683
Q	311m NE	Railway Building	1950	1476948
R	322m NE	Unspecified Ground Workings	1908	1509840
R	322m NE	Unspecified Ground Workings	1908	1509840
Q	323m NE	Railway Building	1950	1476947
S	325m SW	Railway Buildings	1950	1554725
P	326m NW	Unspecified Mill	1967	1534587
P	327m NW	Unspecified Mill	1950	1503292
P	327m NW	Unspecified Mill	1908	1552732
S	328m SW	Railway Buildings	1908	1554725
4	330m N	Railway Sidings	1908	1506031
5	343m NE	Railway Building	1908	1476953
Q	345m NE	Railway Building	1950	1476944
6	363m NE	Railway Building	1967	1476950
7	366m N	Railway Sidings	1950	1574083

ID	Location	Land Use	Date	Group ID
Q	371m NE	Railway Building	1908	1566723
Q	372m NE	Railway Building	1950	1566723
T	385m SW	Pumping Station	1986	1552390
T	385m SW	Pumping Station	1994	1494281
U	391m NE	Railway Building	1908	1566778
U	391m NE	Railway Building	1957	1497553
U	391m NE	Railway Building	1950	1497553
V	403m NE	Railway Building	1986	1514756
V	403m NE	Railway Building	1994	1563795
Q	407m NE	Marshalling Yard	1967	1447509
Q	408m NE	Railway Building	1950	1476945
V	409m NE	Railway Building	1908	1526281
V	409m NE	Railway Building	1950	1577460
V	417m NE	Railway Building	1957	1544820
V	423m NE	Railway Building	1950	1476946
U	423m NE	Railway Building	1908	1557219
U	424m NE	Railway Building	1950	1557219
V	427m NE	Railway Building	1957	1476949
W	431m NE	Disused Airfield	1967	1511088
W	431m NE	Disused Airfield	1957	1511088
V	464m NE	Railway Building	1908	1565948
V	467m NE	Railway Building	1950	1565948
V	469m NE	Railway Building	1957	1476951
10	487m SW	Magazine	1950	1448064

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	17

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

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

ID	Location	Land Use	Date	Group ID
C	47m W	Unspecified Tank	1984	247257
C	47m W	Unspecified Tank	1993	247257
C	91m W	Unspecified Tank	1984	245044
C	91m W	Unspecified Tank	1993	245044
C	104m W	Tanks	1993	235208
B	136m SW	Gas Works	1891	245828
B	141m SW	Gas Works	1908	245828
B	161m SW	Gasometer	1891	237254
B	167m SW	Gasometer	1908	237253
B	176m SW	Unspecified Tank	1961	240360
L	392m NE	Tanks	1995	233792
8	443m E	Unspecified Tank	1986	241048
Y	474m NE	Unspecified Tank	1986	259569
Y	474m NE	Unspecified Tank	1995	259569
9	483m NE	Tanks	1985	235377
Z	488m NE	Tanks	1986	247836
Z	489m NE	Tanks	1995	247836

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	8

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

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

ID	Location	Land Use	Date	Group ID
B	136m SW	Gas Works	1891	145734
B	141m SW	Gas Works	1908	145734
B	161m SW	Gasometer	1891	141871
B	167m SW	Gasometer	1908	141873
S	353m SW	Electricity Substation	1995	157539
S	354m SW	Electricity Substation	1984	158680
X	443m NE	Electricity Substation	1986	148665
X	443m NE	Electricity Substation	1995	148665

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.

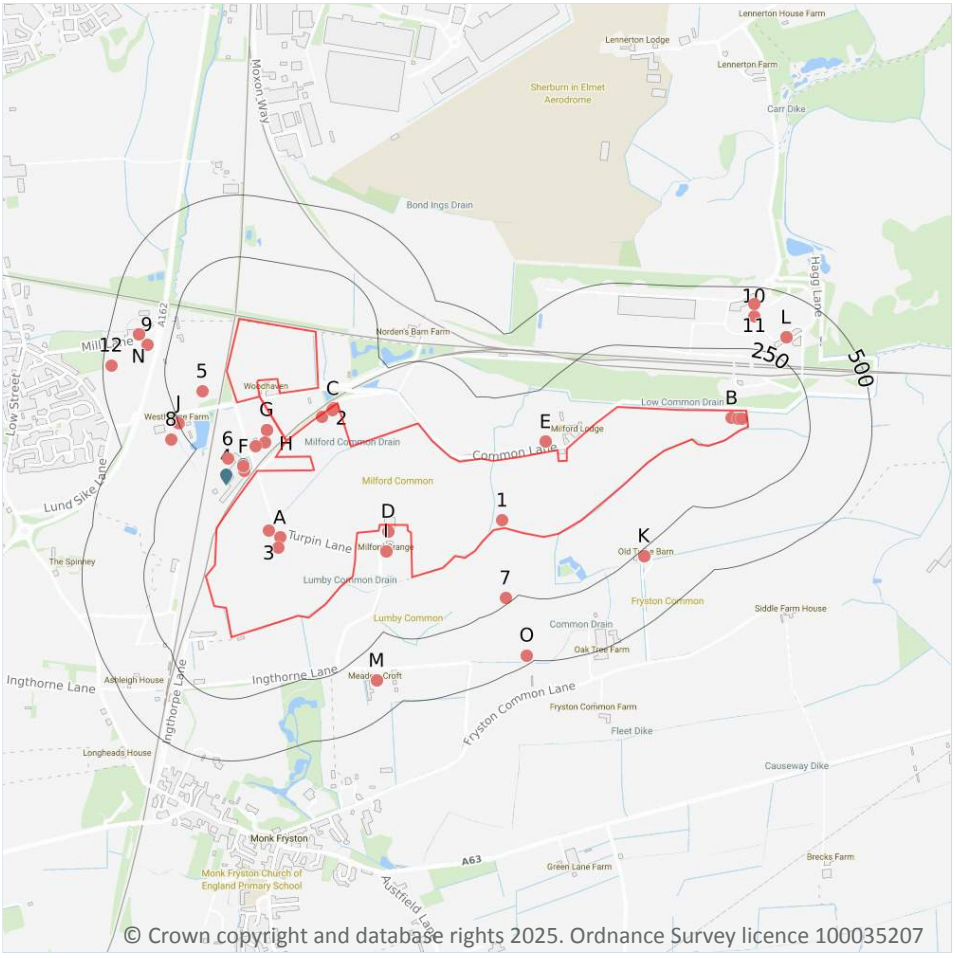
2.5 Historical garages

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)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	4

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

Features are displayed on the Waste and landfill map on **page 25 >**

ID	Location	Details		
F	55m W	Site Name: The Maltings Organic Treatment Facility Site Address: The Maltings, Turpin Lane, Common Lane, South Milford, West Yorks, LS25 5DN Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAL003 EPR reference: EA/EPR/FP3090SZ/V010 Operator: The Maltings Organic Treatment Limited Waste Management licence No: 406667 Annual Tonnage: 75000	Issue Date: 22/11/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
F	55m W	Site Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Site Address: The Maltings Organic Treatment Facility, Turpin Lane, Common Lane, South Milford, West Yorkshire, LS25 5FP Correspondence Address: -	Type of Site: Composting Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 659025 EPR reference: EA/EPR/FP3090SZ Operator: The Maltings Organic Treatment Limited Waste Management licence No: 101238 Annual Tonnage: 75000	Issue Date: 22/11/2019 Effective Date: 22/11/2019 Modified: 22/11/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	55m W	Site Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Site Address: The Maltings Organic Treatment Facility, Turpin Lane, Common Lane, South Milford, West Yorkshire, LS25 5FP Correspondence Address: -	Type of Site: Composting Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 659025 EPR reference: EA/EPR/FP3090SZ Operator: The Maltings Organic Treatment Limited Waste Management licence No: 101238 Annual Tonnage: 225000	Issue Date: 22/11/2019 Effective Date: 22/11/2019 Modified: 22/11/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
4	88m W	Site Name: The Maltings In Vessel Composting Facility Site Address: Land/premises At, Turpin Lane, South Milford, West Yorkshire, LS25 5DR Correspondence Address: -	Type of Site: Composting Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAL035 EPR reference: EA/EPR/FP3090SZ/V002 Operator: The Maltings Organic Treatment Ltd Waste Management licence No: 101238 Annual Tonnage: 74999	Issue Date: 04/05/2010 Effective Date: - Modified: 05/11/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

3.7 Waste exemptions

Records within 500m	**85**

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

Features are displayed on the Waste and landfill map on **page 25 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**Andrew Cawood - Milford Common**	**WEX269177**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
2	**On site**	**45 Low Street Leeds Ls25 5as**	**EPR/XF0301NS/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
3	**On site**	**Burley House Farm South Milford Ls25 5as**	**EPR/HF0936QN/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
A	**On site**	**Burley House Farm, South Milford, Leeds, Ls25 5as**	**WEX124941**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**45 Low Street Leeds Ls25 5as**	**EPR/FF0607TK/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
B	**On site**	**Burley House Farm, South Milford, Leeds, Ls25 5as**	**WEX131845**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**45 Low Street Leeds Ls25 5as**	**EPR/UF0701NG/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
B	**On site**	**Burley House Farm South Milford Ls25 5as**	**EPR/HF0036QD/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
C	**On site**	**Burley House Farm, South Milford, Leedsq, Ls25 5as**	**WEX131840**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	**On site**	**Burley House Farm South Milford Ls25 5as**	**EPR/TF0736QJ/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of sludge**
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Agricultural waste only	Use of mulch

ID	Location	Site	Reference	Category	Sub-Category	Description
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Treating waste exemption	Agricultural waste only	Cleaning, washing, spraying or coating relevant waste
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Treating waste exemption	Agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
D	29m S	Milford Grange Farm Ingthorne Lane Leeds Ls25 5dh	EPR/YH0579PC/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
E	40m E	-	WEX235879	Using waste exemption	On a farm	Use of waste in construction
E	40m E	27, Chapel Garth, Dalton, Thirsk, Yo7 3hu	WEX092335	Using waste exemption	On a farm	Use of waste in construction
E	40m E	Hall Garth Back Lane Kilburn	EPR/SE5645PD/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
E	40m E	Land At Se5179031340	EPR/AE5053WA/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
F	42m W	The Maltings Organic Treatment Ltd, Turpin Lane, Off Common Lane, South Milford, Ls25 5fp	WEX252756	Using waste exemption	Not on a farm	Use of waste in construction
G	46m NW	-	WEX296650	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	46m NW	-	WEX296650	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
G	46m NW	-	WEX296026	Disposing of waste exemption	Not on a farm	Burning waste in the open
G	46m NW	-	WEX296650	Treating waste exemption	Not on a farm	Treatment of waste food
F	55m W	-	WEX358599	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	55m W	-	WEX361551	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
F	55m W	The Maltings Organic Treatment Ltd, Turpin Lane, Off Common Lane, South Milford, Ls25 5fp	WEX111148	Using waste exemption	Not on a farm	Use of waste in construction
F	55m W	-	WEX232818	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
H	67m W	-	WEX367563	Using waste exemption	Not on a farm	Use of waste in construction
I	89m S	Milford Grange Farm, Ingthorne Lane, South Milford, Leeds, Ls25 5dh	WEX008326	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
I	89m S	Milford Grange Farm, Ingthorne Lane, South Milford, Leeds, Ls25 5dh	WEX008326	Using waste exemption	On a farm	Use of waste in construction
I	89m S	Milford Grange Farm, Ingthorne Lane, South Milford, Leeds, Ls25 5dh	WEX008326	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
I	89m S	Milford Grange Farm, Ingthorne Lane, South Milford, Leeds, Ls25 5dh	WEX008326	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
I	89m S	Milford Grange Farm, Ingthorne Lane, South Milford, Leeds, Ls25 5dh	WEX008326	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
H	91m W	-	WEX238238	Using waste exemption	Not on a farm	Use of waste in construction
5	121m NW	Burley House Farm South Milford Ls25 5as	EPR/HF0136QJ/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
6	124m W	The Maltings Turpin Lane Leeds Ls25 5fp	EPR/SF0009SC/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
7	228m SE	-	WEX324247	Storing waste exemption	On a farm	Storage of sludge
J	252m W	-	WEX269558	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
J	252m W	-	WEX269558	Disposing of waste exemption	Not on a farm	Burning waste in the open
J	252m W	Westholme Farm, Common Lane, South Milford, Leeds, Ls25 5bx	WEX129423	Disposing of waste exemption	Not on a farm	Burning waste in the open
J	252m W	Westholme Farm, Common Lane, South Milford, Leeds, Ls25 5bx	WEX129423	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
J	254m W	Westholme Farm Common Lane Leeds Ls25 5bx	EPR/YH0670GF/A001	Disposing of waste exemption	Non-agricultural waste only	Burning waste in the open
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit

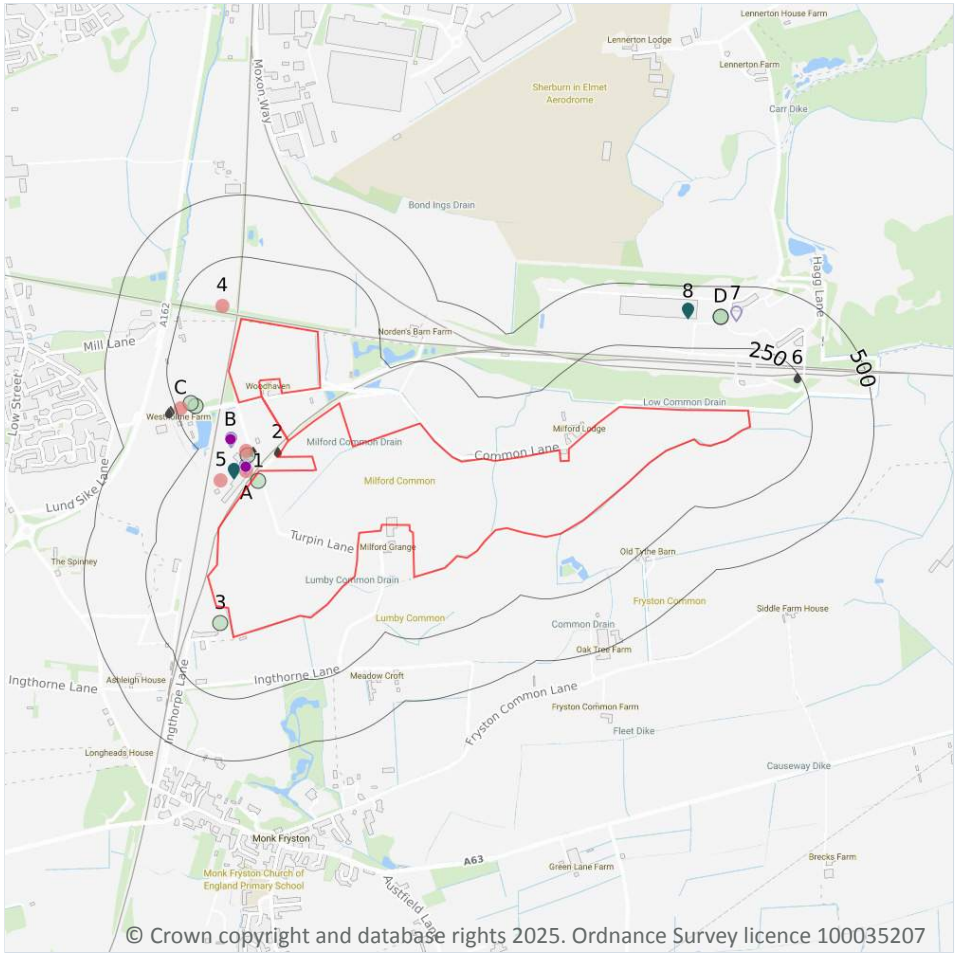
ID	Location	Site	Reference	Category	Sub-Category	Description
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
K	273m E	The Grainary Fryston Common Lane Leeds Ls25 5ep	EPR/RH0316QN/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
8	307m W	Burley House Farm South Milford Ls25 5as	EPR/HF0536QX/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Treating waste exemption	Non-agricultural waste only	Mechanical treatment of end-of-life tyres
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Using waste exemption	Non-agricultural waste only	Use of baled end-of-life tyres in construction
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Using waste exemption	Non-agricultural waste only	Use of waste for a specified purpose
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Treating waste exemption	Non-agricultural waste only	Manual treatment of waste
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Treating waste exemption	Non-agricultural waste only	Screening and blending of waste
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
L	335m E	Gascoigne Wood Mine Lennerton Lane Leeds West Yorkshire Ls25 6lh	EPR/UF0934FC/A001	Using waste exemption	Non-agricultural waste only	Use of waste to manufacture finished goods
9	339m NW	Burley House Farm, South Milford, Leeds, Ls25 5as	WEX131830	Storing waste exemption	On a farm	Storage of sludge
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Use of waste in construction
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Use of waste for a specified purpose
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Disposing of waste exemption	On a farm	Burning waste in the open
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	370m S	Meadow Croft, Ingthorne Lane, South Milford, Leeds, Ls25 5dq	WEX043332	Using waste exemption	On a farm	Use of mulch
M	371m S	Meadow Croft Ingthorne Lane North Yorkshire Ls25 5dq	EPR/LE5786GC/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
M	371m S	Meadow Croft Ingthorne Lane North Yorkshire Ls25 5dq	EPR/LE5786GC/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
M	371m S	Meadow Croft Ingthorne Lane North Yorkshire Ls25 5dq	EPR/LE5786GC/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
10	380m NE	-	WEX373413	Using waste exemption	Not on a farm	Use of waste in construction
N	381m NW	Ash Tree Farm Mill Lane Leeds Ls25 5bn	EPR/JE5257YW/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
N	381m NW	Ash Tree Farm Mill Lane Leeds Ls25 5bn	EPR/JE5257YW/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
N	381m NW	Ash Tree Farm Mill Lane Leeds Ls25 5bn	EPR/JE5257YW/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	381m NW	Ash Tree Farm Mill Lane Leeds Ls25 5bn	EPR/JE5257YW/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
11	431m NE	-	WEX388065	Using waste exemption	Not on a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
O	467m SE	-	WEX324253	Storing waste exemption	On a farm	Storage of sludge
O	467m SE	Honeypot Farm, High Street, South Milford, Leeds, Ls25 5aq	WEX156123	Storing waste exemption	On a farm	Storage of sludge
12	469m NW	Burley House Farm South Milford Ls25 5as	EPR/TF0636QD/A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge

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
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m	5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Address	Activity	Category
A	42m W	The Maltings Organic Treatment Ltd	The Maltings, Turpin Lane, South Milford, Selby, North Yorkshire, LS25 5FP	Waste Storage, Processing and Disposal	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	95m NW	Mast (Telecommunication)	North Yorkshire, LS25	Telecommunications Features	Infrastructure and Facilities
A	97m W	Electricity Sub Station	North Yorkshire, LS25	Electrical Features	Infrastructure and Facilities
5	103m W	Waste Processing Facility	North Yorkshire, LS25	Waste Storage, Processing and Disposal	Infrastructure and Facilities
C	232m W	Pumping Station	North Yorkshire, LS25	Water Pumping Stations	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	0

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.

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	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	17

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 35 >**

ID	Location	Details	
A	55m W	Operator: THE MALTINGS ORGANIC TREATMENT LIMITED Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: FP3090SZ Original Permit Number: RP3635WY	EPR Reference: EPR/FP3090SZ Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 29/10/2024 Status: Effective
A	55m W	Operator: THE MALTINGS ORGANIC TREATMENT LIMITED Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: FP3090SZ Original Permit Number: RP3635WY	EPR Reference: EPR/FP3090SZ Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 29/10/2024 Status: Effective
A	55m W	Operator: THE MALTINGS ORGANIC TREATMENT LIMITED Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 75 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: FP3090SZ Original Permit Number: RP3635WY	EPR Reference: EPR/FP3090SZ Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 29/10/2024 Status: Effective
A	55m W	Operator: THE MALTINGS ORGANIC TREATMENT LIMITED Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: INDEPENDENTLY OPERATED TREATMENT OF WASTE WATER DISCHARGED BY AN INSTALLATION CARRYING OUT ANT OTHER PART A(1) OR A(2) ACTIVITY Permit Number: FP3090SZ Original Permit Number: RP3635WY	EPR Reference: EPR/FP3090SZ Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 29/10/2024 Status: Effective
A	55m W	Operator: THE MALTINGS ORGANIC TREATMENT LIMITED Installation Name: THE MALTINGS ORGANIC TREATMENT FACILITY EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: NP3536DJ Original Permit Number: RP3635WY	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2017 Status: DETERMINATION

ID	Location	Details	
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: RP3635WY Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 06/02/2015 Effective Date: 06/02/2015 Last date noted as effective: 21/03/2023 Status: Superceded
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: CP3533QA Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 21/03/2023 Status: Effective
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/RP3635WY Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: NP3236DV Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 05/04/2017 Effective Date: 05/04/2017 Last date noted as effective: 21/03/2023 Status: Superceded
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/RP3635WY Process: INDEPENDENTLY OPERATED TREATMENT OF WASTE WATER DISCHARGED BY AN INSTALLATION CARRYING OUT ANT OTHER PART A(1) OR A(2) ACTIVITY Permit Number: NP3236DV Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 05/04/2017 Effective Date: 05/04/2017 Last date noted as effective: 21/03/2023 Status: Superceded
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/RP3635WY Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: NP3236DV Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 05/04/2017 Effective Date: 05/04/2017 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: CP3533QA Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 21/03/2023 Status: Effective
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: INDEPENDENTLY OPERATED TREATMENT OF WASTE WATER DISCHARGED BY AN INSTALLATION CARRYING OUT ANT OTHER PART A(1) OR A(2) ACTIVITY Permit Number: CP3533QA Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 21/03/2023 Status: Effective
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/FP3090SZ Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: CP3533QA Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 22/11/2019 Effective Date: 22/11/2019 Last date noted as effective: 21/03/2023 Status: Effective
A	55m W	Operator: The Maltings Organic Treatment Limited Installation Name: The Maltings Organic Treatment Facility EPR/RP3635WY Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: NP3236DV Original Permit Number: RP3635WY	EPR Reference: - Issue Date: 05/04/2017 Effective Date: 05/04/2017 Last date noted as effective: 21/03/2023 Status: Superceded
B	155m W	Operator: AB AGRI LIMITED Installation Name: South Milford Anaerobic Digestion Plant EPR/VP3533DP Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: VP3533DP Original Permit Number: VP3533DP	EPR Reference: EPR/VP3533DP Issue Date: 01/03/2021 Effective Date: 01/03/2021 Last date noted as effective: 29/10/2024 Status: Effective

ID	Location	Details	
B	155m W	Operator: AB Agri Limited Installation Name: South Milford Anaerobic Digestion Plant EPR/VP3533DP Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: PP3206BZ Original Permit Number: VP3533DP	EPR Reference: - Issue Date: 01/03/2021 Effective Date: 01/03/2021 Last date noted as effective: 21/03/2023 Status: Effective
7	392m NE	Operator: Gascoigne Wood Power Limited Installation Name: Gascoigne Wood Power Plant Process: NEW MEDIUM COMBUSTION PLANT Permit Number: EP3047QR Original Permit Number: LP3032QE	EPR Reference: - Issue Date: 21/09/2022 Effective Date: 03/10/2022 Last date noted as effective: 21/03/2023 Status: Effective

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

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

Records within 500m **2**

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

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Address	Details	
A	83m W	The Maltings Organic Treatment Limited, The Maltings, Turpin Lane, Common Lane, South Milford	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
8	398m NE	Gascoigne Wood Mine, Lennerton Lane, Sherburn In Elemet, LS25 6LH	Process: Other Mineral Processes Status: Surrendered Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m **0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m **9**

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 35 >**

ID	Location	Address	Details	
2	12m W	COTTAGESADJTOTHEMALTINGS,SOUTHMILFORD,NORTHYORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 176 Permit Version: 1 Receiving Water: TRIB SELBY DAM	Status: REVOKED - UNSPECIFIED Issue date: 22/07/1953 Effective Date: 22/07/1953 Revocation Date: 12/01/1993
A	80m W	SOUTHMILFORDMALTINGS,SOUTHMILFORD,SELBY,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: 2192 Permit Version: 1 Receiving Water: TRIB SELBY DAM/OUSE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 10/01/1967 Effective Date: 10/01/1967 Revocation Date: 01/01/1982
A	80m W	SOUTHMILFORDMALTINGS,SOUTHMILFORD,SELBY,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 1219 Permit Version: 1 Receiving Water: TRIB SELBY DAM/RIVER OUSE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 19/09/1960 Effective Date: 19/09/1960 Revocation Date: 17/08/1991
A	80m W	SOUTHMILFORDMALTINGS,SOUTHMILFORD,SELBY,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 2654 Permit Version: 1 Receiving Water: TRIB OF LUMBY COMMON DRAIN	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 24/04/1998
6	239m E	GASCOIGNEWOODMINE,LENNERTONLANE,SHERBURNINELMET,NORTHYORKSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: 3459 Permit Version: 1 Receiving Water: PARISH CROFTS DRAIN	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/06/1980 Effective Date: 25/06/1980 Revocation Date: -

ID	Location	Address	Details	
C	274m W	SOUTHMILFORDSPS,COMMONLANE,SOUTHMILFORD,LEEDS,NORTHYORKSHIRE,LS255BN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/24/0242 Permit Version: 2 Receiving Water: CAWDEL HEAD DRAIN (CULVERTED)	Status: VARIED UNDER EPR 2010 Issue date: 07/05/2020 Effective Date: 07/05/2020 Revocation Date: -
C	274m W	SOUTHMILFORDSPS,COMMONLANE,SOUTHMILFORD,LEEDS,NORTHYORKSHIRE,LS255BN	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 27/24/0242 Permit Version: 2 Receiving Water: CAWDEL HEAD DRAIN (CULVERTED)	Status: VARIED UNDER EPR 2010 Issue date: 07/05/2020 Effective Date: 07/05/2020 Revocation Date: -
C	284m W	SOUTHMILFORDSPS,COMMONLANE,SOUTHMILFORD,LEEDS,NORTHYORKSHIRE,LS255BN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/24/0242 Permit Version: 1 Receiving Water: CULVERTED CAWDEL HEAD	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2003 Effective Date: 31/03/2003 Revocation Date: 06/05/2020
C	284m W	SOUTHMILFORDSPS,COMMONLANE,SOUTHMILFORD,LEEDS,NORTHYORKSHIRE,LS255BN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/24/0242 Permit Version: 1 Receiving Water: CULVERTED CAWDEL HEAD	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2003 Effective Date: 31/03/2003 Revocation Date: 06/05/2020

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	7

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

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Details	
1	**On site**	**Incident Date: 24/07/2012** **Incident Identification: 1017700** **Pollutant: Pollutant Not Identified** **Pollutant Description: Not Identified**	**Water Impact: Category 2 (Significant)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
3	42m SW	Incident Date: 03/08/2001 Incident Identification: 21718 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
A	77m W	Incident Date: 05/06/2023 Incident Identification: 2156515 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	170m W	Incident Date: 10/12/2001 Incident Identification: 47525 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	186m W	Incident Date: 14/07/2003 Incident Identification: 173611 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	379m NE	Incident Date: 16/01/2014 Incident Identification: 1194748 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 1 (Major) Land Impact: Category 2 (Significant) Air Impact: Category 1 (Major)
D	379m NE	Incident Date: 16/01/2014 Incident Identification: 1194748 Pollutant: Organic Chemicals/Products Pollutant Description: Hydrocarbons	Water Impact: Category 1 (Major) Land Impact: Category 2 (Significant) Air Impact: Category 1 (Major)

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

4.19 Pollution inventory substances

Records within 500m	**3**

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 35 >**

ID: A, Location: 55m W, Permit: FP3090SZ
Operator: The Maltings Organic Treatment Limited
Activity: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: The Maltings Organic Treatment Facility Turpin Lane Common Lane South Milford West Yorkshire LS25 5FP
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Nickel	20kg	Below Reporting Threshold
Wastewater	Zinc	100kg	Below Reporting Threshold
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Wastewater	Chlorides - as Cl	2000000kg	Below Reporting Threshold
Wastewater	Nitrogen - as total N	50000kg	Below Reporting Threshold
Wastewater	Phosphorus - as total P	5000kg	Below Reporting Threshold
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Wastewater	Cadmium	1kg	Below Reporting Threshold
Wastewater	Copper	20kg	Below Reporting Threshold
Wastewater	Lead	20kg	Below Reporting Threshold
Wastewater	Chromium	20kg	Below Reporting Threshold
Wastewater	Mercury	0.1kg	Below Reporting Threshold

ID: A, Location: 55m W, Permit: FP3090SZ
Operator: The Maltings Organic Treatment Limited
Activity: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: The Maltings Organic Treatment Facility Turpin Lane Common Lane South Milford West Yorkshire LS25 5FP
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	23186.01kg

ID: B, Location: 155m W, Permit: VP3533DP
Operator: AB Agri Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: South Milford AD Plant Turpin Lane North Yorkshire LS25 5BX
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	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	**2**

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 35 >**

ID: A, Location: 55m W, Permit: FP3090SZ
Operator: The Maltings Organic Treatment Limited
Activity: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: The Maltings Organic Treatment Facility Turpin Lane Common Lane South Milford West Yorkshire LS25 5FP
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.3	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
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)	0.4	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)	0.14	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	132.14	Absolute Value	20 02 01	biodegradable waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	11.3	Absolute Value	02 02 03	materials unsuitable for consumption or processing	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1332.78	Absolute Value	02 03 04	materials unsuitable for consumption or processing	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	305.76	Absolute Value	02 06 01	materials unsuitable for consumption or processing	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	428.68	Absolute Value	02 07 04	materials unsuitable for consumption or processing	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	878.57	Absolute Value	15 01 01	paper and cardboard packaging	No
R5	Recycling/reclamation of other inorganic materials	761.52	Absolute Value	15 01 02	plastic packaging	No
R5	Recycling/reclamation of other inorganic materials	49.8	Absolute Value	15 01 06	mixed packaging	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	3.32	Absolute Value	16 01 03	end-of-life tyres	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)	202.18	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	No
R4	Recycling/reclamation of metals and metal compounds	95.62	Absolute Value	17 04 05	iron and steel	No
R5	Recycling/reclamation of other inorganic materials	270.46	Absolute Value	17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	3144.66	Absolute Value	19 02 03	premixed wastes composed only of non-hazardous wastes	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	5417.87	Absolute Value	19 05 03	off-specification compost	No
R4	Recycling/reclamation of metals and metal compounds	10.24	Absolute Value	19 12 02	ferrous metal	No
R4	Recycling/reclamation of metals and metal compounds	199.38	Absolute Value	19 12 03	non-ferrous metal	No
R5	Recycling/reclamation of other inorganic materials	266.039	Absolute Value	19 12 04	plastic and rubber	No
R5	Recycling/reclamation of other inorganic materials	2305.96	Absolute Value	19 12 05	glass	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	2004.39	Absolute Value	19 12 07	wood other than that mentioned in 19 12 06	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	50107.02	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	No

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R5	Recycling/reclamation of other inorganic materials	751.14	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	2702.28	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	No

ID: B, Location: 155m W, Permit: VP3533DP
Operator: AB Agri Limited
Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
Address: South Milford AD Plant Turpin Lane North Yorkshire LS25 5BX
Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
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)	21	Absolute Value	19 06 99	wastes not otherwise specified	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	22	Absolute Value	19 09 04	spent activated carbon	No
D1	Deposit into or onto land (eg landfill, etc.)	29.35	Absolute Value	20 03 01	mixed municipal waste	No

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 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m	1

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	**LDE-CLAY**	**LACUSTRINE DEPOSITS (UNDIFFERENTIATED)**	**CLAY**

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

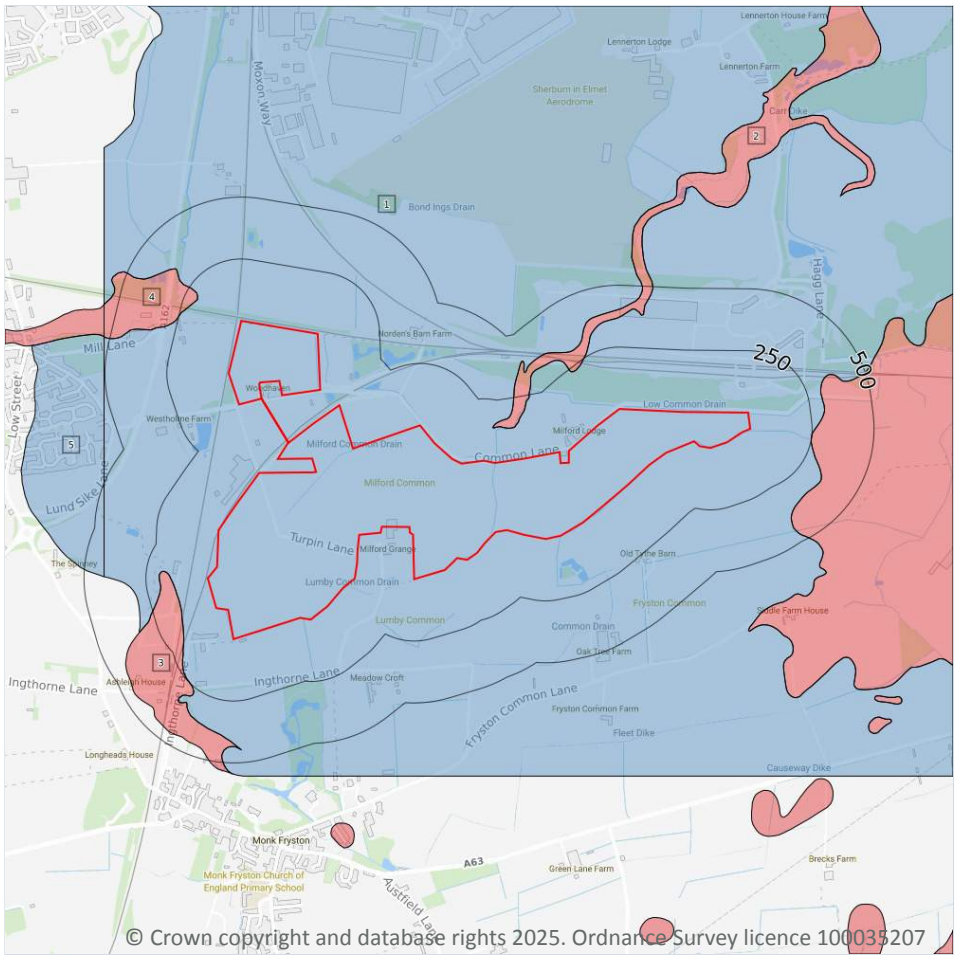
Records within 500m	3

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	**PUND-MDSS**	**PERMIAN ROCKS (UNDIFFERENTIATED)**	**MUDSTONE, SILTSTONE AND SANDSTONE**
On site	**ZG-DLDO**	**ZECHSTEIN GROUP**	**DOLOMITISED LIMESTONE AND DOLOMITE**
161m E	TRIA-SCON	TRIASSIC ROCKS (UNDIFFERENTIATED)	SANDSTONE AND CONGLOMERATE, INTERBEDDED

This data is sourced from the British Geological Survey.

6 Hydrogeology - Superficial aquifer



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Site Outline

Search buffers in metres (m)

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

6.1 Superficial aquifer

Records within 500m	5

Aquifer status of groundwater held within superficial geology.

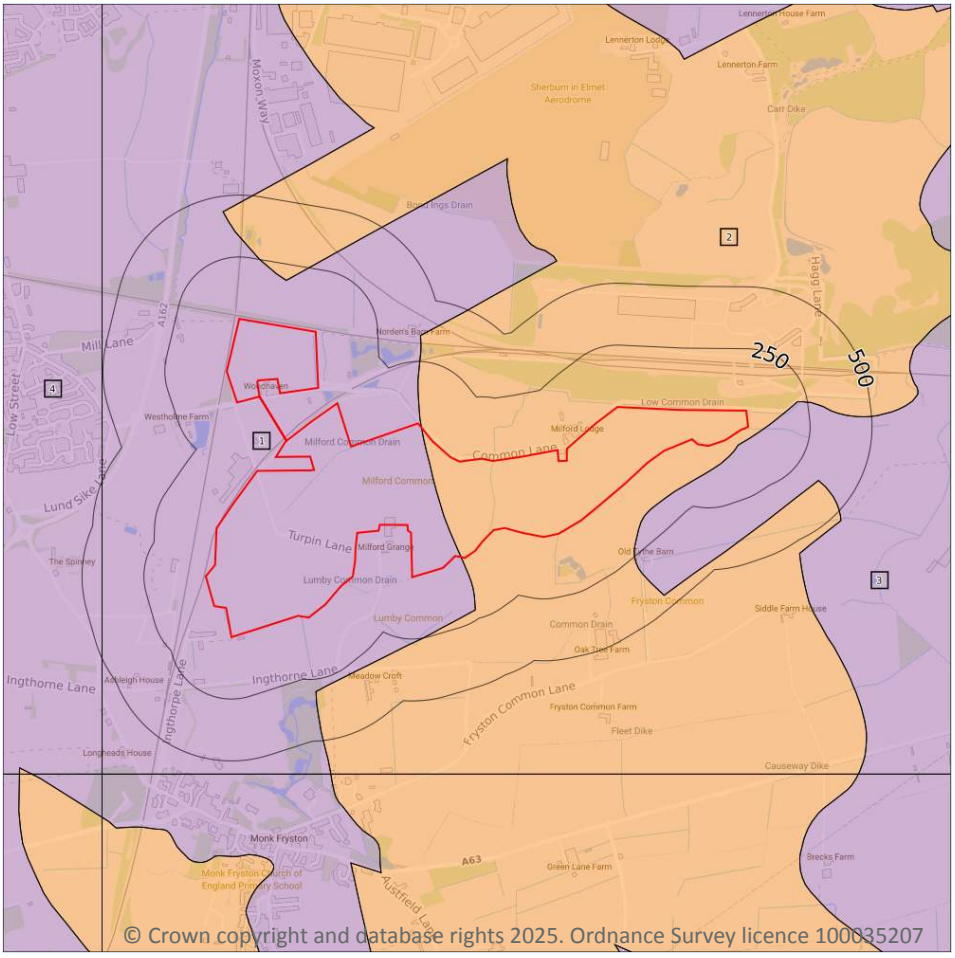
Features are displayed on the Hydrogeology map on **page 53 >**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
2	130m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	136m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	197m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	419m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

6.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

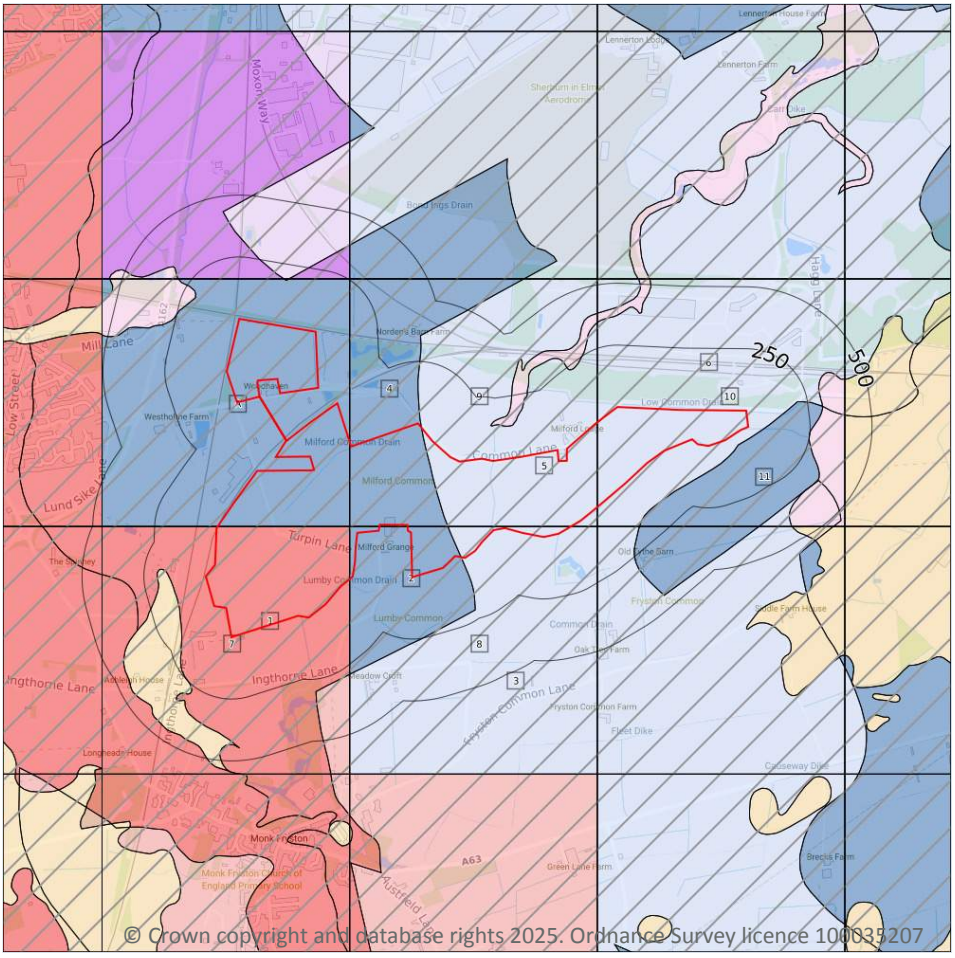
Features are displayed on the Bedrock aquifer map on **page 55 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Location	Designation	Description
3	42m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	419m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

6.3 Groundwater vulnerability

Records within 50m	8

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 57 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
11	42m E	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

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

6.4 Groundwater vulnerability- soluble rock risk

Records on site	**5**

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
7	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
8	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
9	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**
10	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**100.0%**

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

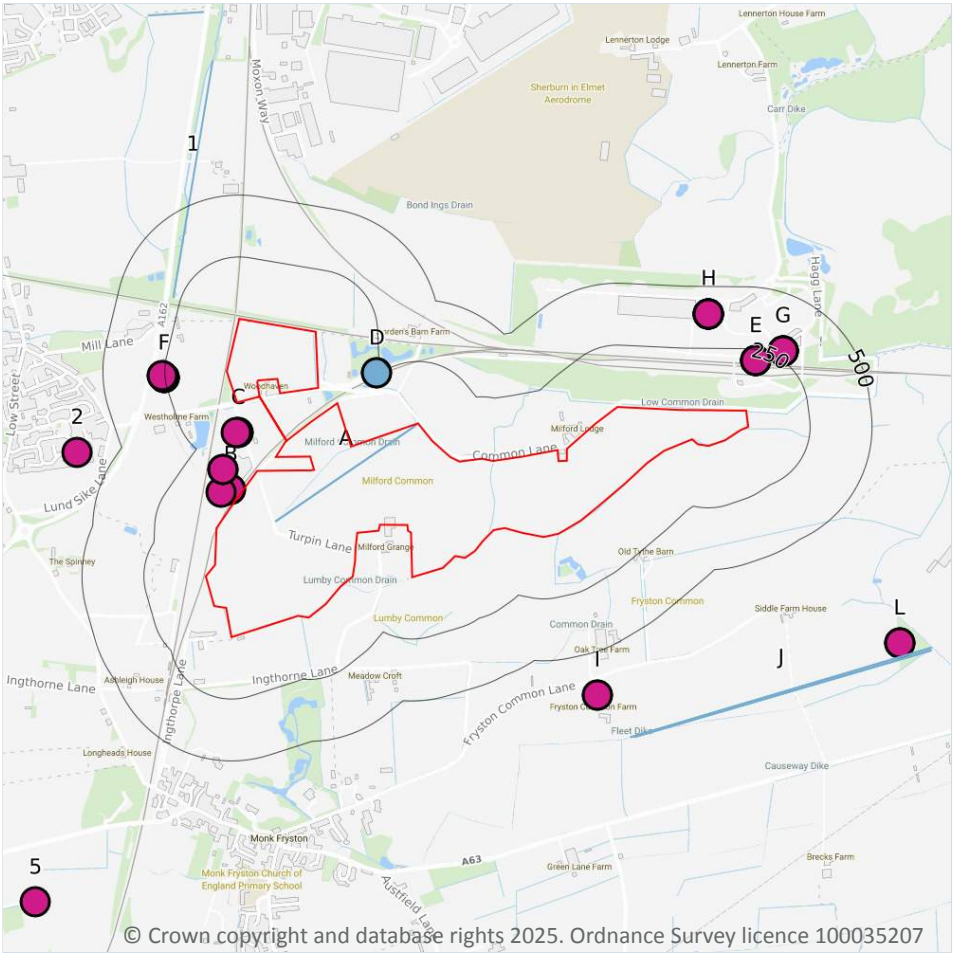
6.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

6.6 Groundwater abstractions

Records within 2000m	66

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 61 >**

ID	Location	Details	
B	42m W	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450520 Northing: 431150	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
B	42m W	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450520 Northing: 431150	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
B	69m W	Status: Historical Licence No: 2/27/24/118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: BAIRDS MALT LTD Easting: 450480 Northing: 431140	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1996 Version End Date: -
B	114m W	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 3 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450490 Northing: 431230	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -

ID	Location	Details	
B	114m W	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450490 Northing: 431230	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
C	121m W	Status: Active Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450550 Northing: 431380	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: 1655 Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
C	121m W	Status: Historical Licence No: 2/27/24/118 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: CARRIE Easting: 450550 Northing: 431380	Annual Volume (m^3): 136380 Max Daily Volume (m^3): 373.64 Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 25/05/2005 Version End Date: -
C	121m W	Status: Historical Licence No: 2/27/24/118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: BAIRDS MALT LTD Easting: 450540 Northing: 431380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/1996 Version End Date: -

ID	Location	Details	
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (2) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (2) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
E	206m E	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452640 Northing: 431670	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
F	255m NW	Status: Historical Licence No: 2/27/24/347 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: LUNN BROS Easting: 450250 Northing: 431600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/06/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 16/06/1997 Version End Date: -
F	255m NW	Status: Historical Licence No: 2/27/24/347 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: LUNN BROS Easting: 450250 Northing: 431600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/06/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 16/06/1997 Version End Date: -

ID	Location	Details	
F	255m NW	Status: Historical Licence No: 2/27/24/347 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: LUNN BROS Easting: 450250 Northing: 431600	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 16/06/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 16/06/1997 Version End Date: -
F	255m NW	Status: Historical Licence No: 2/27/24/458 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: LUNN BROS Easting: 450250 Northing: 431600	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -
F	261m NW	Status: Active Licence No: 2/27/24/458/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Jane Elizabeth Ward and Kathryn Helen Parkin Easting: 450243 Northing: 431610	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 100 Original Application No: NPS/WR/037876 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 25/02/2021 Version End Date: -
F	261m NW	Status: Historical Licence No: 2/27/24/458 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: LUNN BROS Easting: 450243 Northing: 431610	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -

ID	Location	Details	
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (1) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (1) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
G	284m E	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452750 Northing: 431710	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) Data Type: Point Name: RJB MINING (UK) LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1997 Version End Date: -

ID	Location	Details	
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 600000 Max Daily Volume (m^3): 2718 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 600000 Max Daily Volume (m^3): 2718 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE (3) - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE (3) - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: UK COAL MINING LTD Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

ID	Location	Details	
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE 3 - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
H	391m NE	Status: Historical Licence No: 2/27/24/171 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 3 - SHERWOOD SANDSTONE - SOUTH MILFORD Data Type: Point Name: Harworth Estates (Agricultural Land) Ltd Easting: 452450 Northing: 431860	Annual Volume (m^3): 290000 Max Daily Volume (m^3): 582 Original Application No: - Original Start Date: 21/07/1976 Expiry Date: - Issue No: 103 Version Start Date: 03/09/2013 Version End Date: -
2	640m W	Status: Historical Licence No: 2/27/24/167 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: LUNN BROS Easting: 449900 Northing: 431300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/08/1974 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1997 Version End Date: -
I	669m SE	Status: Active Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - MONK FRYSTON Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): 9953 Max Daily Volume (m^3): 27.27 Original Application No: 7111 Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
I	669m SE	Status: Historical Licence No: 2/27/24/320 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MONK FRYSTON FARM PARTNERS Easting: 452000 Northing: 430320	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/01/1996 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1996 Version End Date: -
-	1041m E	Status: Active Licence No: 2/27/24/459/R01 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453511 Northing: 430883	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: NPS/WR/016901 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/459 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453511 Northing: 430883	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/325 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -

ID	Location	Details	
-	1041m E	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/325 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 11120 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/325 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 11120 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 23/05/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 23/05/1996 Version End Date: -
-	1041m E	Status: Historical Licence No: 2/27/24/459 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - HAMBLETON Data Type: Point Name: G R PARKIN & SONS Easting: 453510 Northing: 430880	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 35 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
L	1065m E	Status: Active Licence No: 2/27/24/446/R01 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
L	1065m E	Status: Active Licence No: 2/27/24/446/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: Hartleys Farming Ltd Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/029544 Original Start Date: 01/04/2015 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
L	1065m E	Status: Historical Licence No: 2/27/24/446 Details: Spray Irrigation - Storage Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - MONK FRYSTON Data Type: Point Name: J E HARTLEY LTD Easting: 453220 Northing: 430530	Annual Volume (m^3): 35000 Max Daily Volume (m^3): 500 Original Application No: - Original Start Date: 01/06/2005 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 30/06/2011 Version End Date: -
5	1331m SW	Status: Active Licence No: NE/027/0017/041 Details: Mineral Washing Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - BETTERAS HILL QUARRY Data Type: Point Name: K E Lunness Aggregates Ltd Easting: 449731 Northing: 429483	Annual Volume (m^3): 48000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/027189 Original Start Date: 19/07/2018 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 19/07/2018 Version End Date: -

ID	Location	Details	
-	1528m W	Status: Historical Licence No: 2/27/24/384 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: H A & L BATTY Easting: 448980 Northing: 431740	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/03/1999 Expiry Date: - Issue No: 100 Version Start Date: 11/03/1999 Version End Date: -
-	1528m W	Status: Historical Licence No: 2/27/24/384 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: H A & L BATTY Easting: 448980 Northing: 431740	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 11/03/1999 Expiry Date: - Issue No: 100 Version Start Date: 11/03/1999 Version End Date: -
-	1562m N	Status: Historical Licence No: 2/27/24/207 Details: General Washing/Process Washing Direct Source: GROUNDWATERS Point: MAGNESIAN LIMESTONE Data Type: Point Name: LINPAC LEYLAND DAF Easting: 450600 Northing: 433400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 16/02/1998 Version End Date: -
-	1562m N	Status: Historical Licence No: 2/27/24/207 Details: General Washing/Process Washing Direct Source: GROUNDWATERS Point: WELL - MAGNESIAN LIMESTONE- SHERBURN IN ELMET Data Type: Point Name: LINPAC LEYLAND DAF Easting: 450600 Northing: 433400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 16/02/1998 Version End Date: -
-	1585m W	Status: Historical Licence No: 2/27/24/420 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: H A & L BATTY Easting: 448840 Northing: 430940	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/10/2002 Expiry Date: 30/09/2004 Issue No: 1 Version Start Date: 25/10/2002 Version End Date: -

ID	Location	Details	
-	1585m W	Status: Historical Licence No: 2/27/24/445 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: R T Batty & Son Easting: 448840 Northing: 430940	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: - Original Start Date: 01/04/2005 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2005 Version End Date: -
-	1609m W	Status: Active Licence No: 2/27/24/445/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER MAGNESIAN LIMESTONE - SOUTH MILFORD 'B' Data Type: Point Name: R T Batty & Son Easting: 448815 Northing: 430922	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: NPS/WR/021502 Original Start Date: 01/04/2017 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
-	1609m W	Status: Historical Licence No: 2/27/24/445 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER MAGNESIAN LIMESTONE - SOUTH MILFORD 'B' Data Type: Point Name: R T Batty & Son Easting: 448815 Northing: 430922	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: - Original Start Date: 01/04/2005 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2005 Version End Date: -
-	1617m W	Status: Active Licence No: 2/27/24/445/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD 'A' Data Type: Point Name: R T Batty & Son Easting: 448887 Northing: 431625	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: NPS/WR/021502 Original Start Date: 01/04/2017 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -

ID	Location	Details	
-	1617m W	Status: Historical Licence No: 2/27/24/445 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD 'A' Data Type: Point Name: R T Batty & Son Easting: 448887 Northing: 431625	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: - Original Start Date: 01/04/2005 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2005 Version End Date: -
-	1654m W	Status: Historical Licence No: 2/27/24/445 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: R T Batty & Son Easting: 448850 Northing: 431630	Annual Volume (m^3): 43165 Max Daily Volume (m^3): 1233 Original Application No: - Original Start Date: 01/04/2005 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2005 Version End Date: -
-	1704m W	Status: Historical Licence No: 2/27/24/309 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: H A & L BATTY Easting: 448800 Northing: 431600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/06/1995 Expiry Date: 30/09/2004 Issue No: 100 Version Start Date: 15/06/1995 Version End Date: -
-	1704m W	Status: Historical Licence No: 2/27/24/309 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - SOUTH MILFORD Data Type: Point Name: H A & L BATTY Easting: 448800 Northing: 431600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/06/1995 Expiry Date: 30/09/2004 Issue No: 100 Version Start Date: 15/06/1995 Version End Date: -
-	1868m NW	Status: Historical Licence No: 2/27/24/142 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: QUALTER Easting: 449700 Northing: 433500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 24/04/1968 Version End Date: -

ID	Location	Details	
-	1917m S	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: -- BOREHOLE Data Type: Point Name: HILLAM GARDENS LIMITED Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
-	1917m S	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1999 Version End Date: -
-	1917m S	Status: Historical Licence No: 2/27/18/010 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MAGNESIAN LIMESTONE - HILLAM Data Type: Point Name: HILLAM GARDENS LTD Easting: 451400 Northing: 428800	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 81.828 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -

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

6.7 Surface water abstractions

Records within 2000m	**15**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 61 >**

ID	Location	Details	
A	**On site**	**Status: Active** **Licence No: 2/27/24/017** **Details: Spray Irrigation - Direct** **Direct Source: SURFACE WATER** **Point: LUMBY COMMON DRAIN AND MILFORD COMMON DRAIN** **Data Type: Line** **Name: R T Batty & Son** **Easting: 450700** **Northing: 431020**	**Annual Volume (m^3): 5818** **Max Daily Volume (m^3): 291** **Original Application No: NPS/WR/02467** **Original Start Date: 14/12/1965** **Expiry Date: -** **Issue No: 102** **Version Start Date: 11/10/2016** **Version End Date: -**
A	**On site**	**Status: Historical** **Licence No: 2/27/24/017** **Details: Spray Irrigation - Direct** **Direct Source: SURFACE WATER** **Point: LUMBY COMMON DRAIN & MILFORD COMMON DRAIN** **Data Type: Line** **Name: H A & L BATTY** **Easting: 450700** **Northing: 431020**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: -** **Original Start Date: 14/12/1965** **Expiry Date: -** **Issue No: 100** **Version Start Date: 02/03/1999** **Version End Date: -**
D	201m N	Status: Historical Licence No: 2/27/24/433 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER Point: UNNAMES DRAIN - SOUTH MILFORD Data Type: Point Name: VAIRY Easting: 451110 Northing: 431620	Annual Volume (m^3): 3002 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 23/03/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 23/03/2004 Version End Date: -
D	201m N	Status: Historical Licence No: 2/27/24/433 Details: Make-Up Or Top Up Water Direct Source: SURFACE WATER Point: DRAIN - SOUTH MILFORD Data Type: Point Name: VAIRY Easting: 451110 Northing: 431620	Annual Volume (m^3): 3002 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 23/03/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 23/03/2004 Version End Date: -
1	280m NW	Status: Active Licence No: NE/027/0024/081 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: REACH AT MILL DYKE, SHERBURN IN ELEMT Data Type: Line Name: J Bramley and Son Easting: 450447 Northing: 432882	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 324 Original Application No: NPS/WR/030616 Original Start Date: 24/05/2023 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 24/05/2023 Version End Date: -

ID	Location	Details	
J	871m SE	Status: Active Licence No: 2/27/24/469/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: Hartleys Farming Ltd Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: NPS/WR/029547 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 04/10/2018 Version End Date: -
J	871m SE	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - MONK FRYSTON Data Type: Line Name: J E HARTLEY LTD Easting: 452134 Northing: 430149	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -
J	876m SE	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
J	876m SE	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: UNNAMED TRIBUTARY OF HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
J	876m SE	Status: Historical Licence No: 2/27/24/469 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: FLEET DYKE - SHERBURN IN ELMET Data Type: Line Name: J E HARTLEY LTD Easting: 452150 Northing: 430150	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 635 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 30/06/2011 Version End Date: -

ID	Location	Details	
-	880m E	Status: Historical Licence No: 2/27/24/335 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: HABHOLME DYKE Data Type: Line Name: J E HARTLEY LTD Easting: 453450 Northing: 431700	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
4	1248m NW	Status: Active Licence No: NE/027/0024/078 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: REACH ON TRIBUTARY OF MILL DIKE DRAIN Data Type: Line Name: J Bramley and Son Easting: 450188 Northing: 433064	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 900 Original Application No: NPS/WR/039120 Original Start Date: 09/07/2019 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 08/03/2023 Version End Date: -
-	1572m NW	Status: Active Licence No: 2/27/24/044 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NEWTHORPE BECK TO MILL DYKE Data Type: Line Name: ASPINALL Easting: 446500 Northing: 432300	Annual Volume (m^3): 13640 Max Daily Volume (m^3): 168 Original Application No: 1454 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/06/1993 Version End Date: -
-	1719m NE	Status: Historical Licence No: 2/27/24/334 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: HABHOLME DYKE Data Type: Line Name: H YEWDALL & SONS Easting: 453920 Northing: 432570	Annual Volume (m^3): 13000 Max Daily Volume (m^3): 818.28 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 28/06/2005 Version End Date: -
-	1928m NE	Status: Historical Licence No: 2/27/24/334 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SELBY DAM Data Type: Line Name: H YEWDALL & SONS Easting: 453530 Northing: 433160	Annual Volume (m^3): 13000 Max Daily Volume (m^3): 818.28 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 28/06/2005 Version End Date: -

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

6.8 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.

6.9 Source Protection Zones

Records within 500m	2

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 61 >**

ID	Location	Type	Description
B	**On site**	**1**	**Inner catchment**
C	70m NW	1	Inner catchment

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

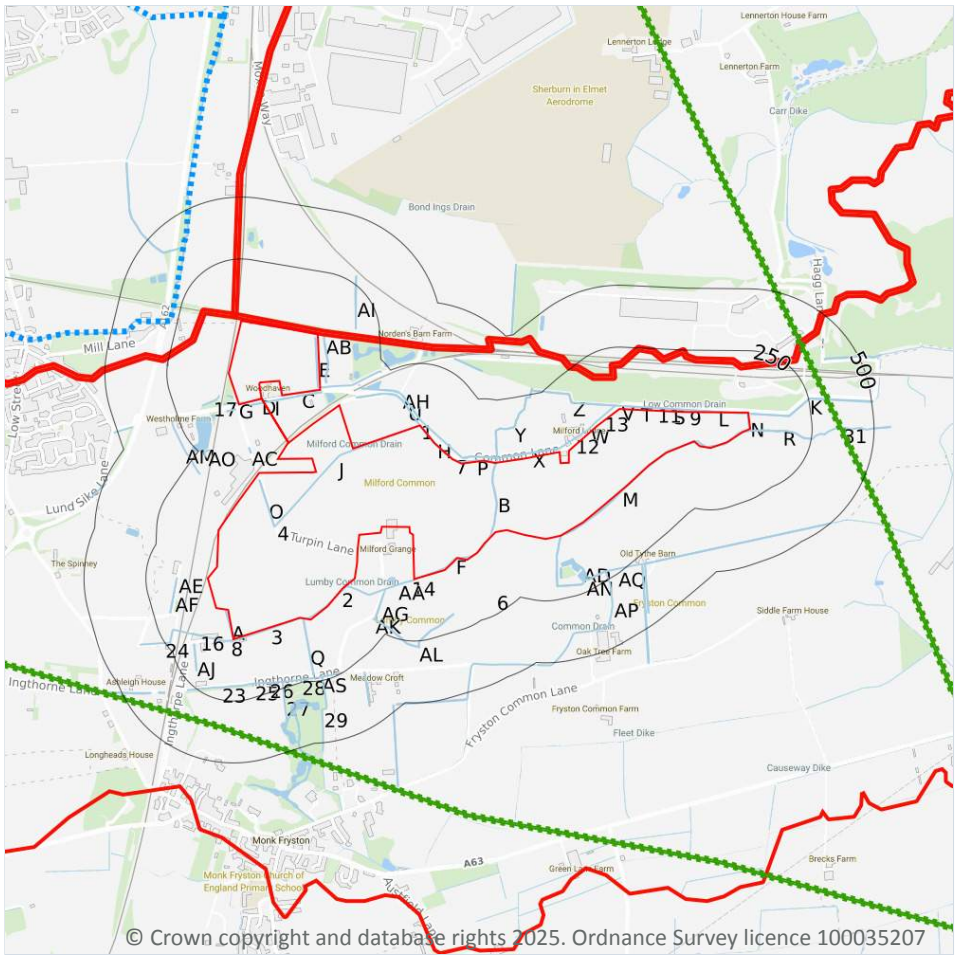
6.10 Source Protection Zones (confined aquifer)

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.

7 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

7.1 Water Network (OS MasterMap)

Records within 250m	116

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

Features are displayed on the Hydrology map on **page 82 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Milford Common Drain
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Milford Common Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
J	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Milford Common Drain**
K	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Low Common Drain**
L	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Low Common Drain**
M	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
N	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
N	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Low Common Drain**
N	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Low Common Drain**
O	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Milford Common Drain**
P	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Milford Common Drain**
7	1m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Milford Common Drain
Q	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	3m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
8	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
R	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	8m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
9	8m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Low Common Drain
S	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Low Common Drain
C	10m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	11m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Low Common Drain
C	11m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	11m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Low Common Drain
C	11m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	11m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	13m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Low Common Drain
C	13m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
12	13m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
W	13m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
D	13m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	13m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
13	14m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
C	14m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	15m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
X	15m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
14	15m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
G	15m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	15m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	16m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	17m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
P	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
P	18m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Parish Croft Drain
Y	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Low Common Drain
V	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Low Common Drain
P	19m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	19m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	19m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	20m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Low Common Drain
G	23m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	24m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	24m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	24m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AA	24m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
E	25m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	25m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	25m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AB	25m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
17	65m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	74m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	85m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	92m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	103m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	112m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	113m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AD	115m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	118m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
C	121m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	124m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	125m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
AA	125m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AE	126m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AF	128m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	130m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AG	132m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AH	140m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AH	150m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	155m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AJ	160m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	161m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AK	172m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	175m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AK	177m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AL	179m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ingthorns Drain
AM	189m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Cawdel Head Drain
23	190m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	195m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lumby Common Drain
25	195m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	195m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	203m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	203m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AN	210m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	216m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
AQ	216m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Common Drain
AO	218m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	218m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	225m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
28	225m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AS	235m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	235m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AS	235m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	250m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	44

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 82 >**

This data is sourced from the Ordnance Survey.

7.3 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 82 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	**On site**	**River**	**Selby Dam from Conf. Fox Dike and Carr Dike to Ouse**	**GB104027063620**	**Ouse Lower Yorkshire**	**Wharfe and Ouse Lower**

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

7.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 82 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2219m NE	River	Selby Dam from Conf. Fox Dike and Carr Dike to Ouse	GB104027063620 ↗	Moderate	Fail	Moderate	2019

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

7.5 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 82 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
H	**On site**	**Wharfe Magnesian Limestone**	**GB40401G701100 ↗**	**Poor**	**Poor**	**Good**	**2019**

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

Light Valley
Solar

W: Lightvalleysolar.co.uk
E: info@lightvalleysolar.co.uk