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# FENWICK SOLAR FARM

**Preliminary Environmental Information Report**

**Volume III Appendix 14-3: Phase 1 Preliminary Risk Assessment  
– Solar PV Site**

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## Executive Summary

A Stage 1, Tier 1 Preliminary Risk Assessment (PRA) (as defined by the Government guidance titled 'Land Contamination Risk Management') of the Solar PV Site of Fenwick Solar Farm has been undertaken by AECOM to support the Development Consent Order Application.

The Solar PV Site would comprise the installation of Solar PV Panels, On-Site Cables, Battery Energy Storage System(s) (BESS) Area, and On-Site Substation, as well as other supporting infrastructure including fencing, access tracks, drainage, and biodiversity and landscaping enhancements.

The purpose of this PRA is to determine whether potentially contaminative land uses have taken place within, or in close proximity to the Solar PV Site which could have led to the contamination of underlying soils and/or groundwater.

The Solar PV Site consists of fields mainly under arable production, interspersed with individual trees and hedgerows. The Solar PV Site is mainly surrounded by agricultural fields and wooded areas, with some agricultural buildings and dwellings located adjacent to the Solar PV Site. The Solar PV Site mostly lies within the Went from Blowell Drain to the River Don water body, with River Went flowing eastward along the northern boundary of the Solar PV Site.

The anticipated geology includes quaternary deposits over sedimentary bedrock of sandstone formations. The Solar PV Site is mostly directly underlain by Unproductive Strata associated with quaternary deposits. Secondary A aquifers are present across limited areas only, associated with alluvial deposits and sand formations. The solid geology of the Sherwood Sandstone Group, which extends at depth beneath the quaternary deposits, is classified as a Principal Aquifer

Based on a review of historical maps, the Solar PV Site was undeveloped land/agricultural fields since the earliest available historical maps (late 1800s). Potential contaminative sources identified locally within the Solar PV Site may be associated with former small ponds which may have been filled with a variety of (potentially unlicensed) waste materials. Infilled land may be also associated with the land adjacent to the south of the River Went, given that this watercourse originally meandered across the Solar PV Site, until its course was modified pre-1900s. Farmland, including current and former farm buildings and yards with fuel and agricultural materials storage, are also shown at two locations within the Solar PV Site.

The potential geo-environmental risks identified have been assessed by the PRA as being very low to low. Limited intrusive ground investigation and further risk assessment is recommended in the areas of potential contamination to confirm the results of this PRA.

The intrusive ground investigation will allow for any recommendations for further works, and allow for considering options for appropriate re-use, or

treatment and disposal of any material to an appropriate facility, prior to construction.

The information collected as part of this PRA suggests that there are no significant constraints with regards to contamination of soil and groundwater that would limit the development of the Solar PV Site.

The regional unexploded bomb (UXB) mapping published by Zetica shows that the Solar PV Site lies within a zone that experiences a low risk of UXB.

The Solar PV Site is located within a Coal Mining Reporting Area. It is recommended that a coal mining report from the Coal Authority is commissioned. However, there are no Development High Risk Areas noted within the Solar PV Site on the Coal Authority's Interactive Map Viewer.

# 1. Introduction

## 1.1 Terms of Appointment

- 1.1.1 On the instruction of Fenwick Solar Project Limited (hereafter referred to as ‘the Applicant’), AECOM Limited (AECOM) has undertaken a Stage 1, Tier 1 Preliminary Risk Assessment (PRA) (as defined by Government guidance titled ‘Land Contamination: Risk Management’ (Ref. 1)) of the Solar PV Site of Fenwick Solar Farm.
- 1.1.2 The Solar PV Site would comprise the installation of Solar PV Panels, On-Site Cables, Battery Energy Storage System(s) (BESS) Area, and On-Site Substation, as well as other supporting infrastructure including fencing, access tracks, drainage, and biodiversity and landscaping enhancements.
- 1.1.3 Together with the Grid Connection Corridor, the Solar PV Site would allow for the generation, storage, and export of more than 50 megawatts (MW) electrical generation capacity. Due to this proposed generating capacity, it is classified as a Nationally Significant Infrastructure Project (NSIP) and will therefore require consent via a Development Consent Order (DCO) under the Planning Act 2008 (Ref. 2) for its construction, operation and maintenance, and decommissioning.
- 1.1.4 **Preliminary Environmental Information Report (PEIR) Volume II Figure 1-2: Site Boundary Plan** shows the maximum area of land potentially required for the construction, operation and maintenance, and decommissioning of the Solar PV Site. The Solar PV Site Boundary represents the current maximum extent of land being considered and may be further refined. Some of this land will also be used for landscaping and habitat enhancement rather than infrastructure.
- 1.1.5 Further details regarding the Solar PV Site are presented in **PEIR Volume I Chapter 2: The Scheme**.
- 1.1.6 The Grid Connection Corridor has been assessed separately in **PEIR Volume III Appendix 14-4: Phase 1 Preliminary Risk Assessment – Grid Connection Corridor**.

## 1.2 Report Objectives

- 1.2.1 The primary objective of this PRA is to determine whether potentially contaminative land uses which could have led to the contamination of underlying soils and/or groundwater have taken place within, or in close proximity to, the Solar PV Site. This PRA aims to identify and evaluate potential land quality risks and development constraints associated with the Solar PV Site and construct an initial conceptual site model (CSM) that can be used to inform future decision making and the design of future ground investigation, if needed.
- 1.2.2 This PRA is prepared to support a DCO Application under the requirements of the Planning Act 2008 (as amended) (Ref. 2), the National Planning Policy Framework (NPPF) 2023 (Ref. 3), and considers the potential implications of Part 2A of the Environmental Protection Act 1990 (Ref. 4) and the associated Contaminated Land (England) Regulations 2006 (as amended) (Ref. 5). Relevant legislation, policy and guidance is described in **PEIR Volume III**

## **Appendix 14-1: Legislation, Policy and Guidance (Other Environmental Topics).**

- 1.2.3 The planning policies from relevant National Policy Statements (NPS) that have been considered in this assessment include:
- a. Overarching NPS for Energy (NPS EN-1) (Ref. 6), with particular reference to section 5.3 Biodiversity and Geological Conservation and section 5.15 Water Quality and Resources;
  - b. NPS for Renewable Energy Infrastructure (EN-3) (Ref. 7), with particular reference to the recommendation to utilise suitable previously developed land, brownfield land, contaminated land and industrial land, where possible, as a suitable site location; and
  - c. NPS for Electricity Networks Infrastructure (NPS EN-5) (Ref. 8), with particular reference to impact of electricity networks on soils and geological conservation.
- 1.2.4 This PRA has been prepared in general accordance with the technical guidance and procedures described in the UK Government guidance (applicable to England, Northern Ireland and Wales) 'Land Contamination Risk Management' 2023 (Ref. 1), British Standard (BS) 5930:2015+A1:2020 Code of Practice for Ground Investigations (Ref. 9), and BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice (Ref. 10) to:
- a. Describe the geology, hydrogeology and shallow mining potential across the Solar PV Site;
  - b. Describe the environmental setting/sensitivity and current/historical land use of the Solar PV Site and surrounding area;
  - c. Describe the findings of a site reconnaissance visit;
  - d. Provide an initial CSM for the prevailing ground conditions; and
  - e. Using the source-pathway-receptor model, present a qualitative PRA of potential land contamination risks to human health (chronic), environmental, and controlled water receptors from contamination sources on, or in the vicinity of, the Solar PV Site.

## **1.3 Sources of Information**

- 1.3.1 This PRA has been prepared using a combination of published records (e.g. British Geological Survey (BGS), Environment Agency and Department for Environment, Food and Rural Affairs (Defra)). These include statutory records and historical mapping supplied within a Groundsure Report (Ref. 11), published geological and hydrogeological mapping, historical borehole records, and observations made during a site reconnaissance visit completed on the 26 July 2023. The site reconnaissance included a visual inspection (non-intrusive survey) of the Solar PV Site to identify the range of activities undertaken on the Solar PV Site and obvious potential sources of ground contamination present at the time of the visit.
- 1.3.2 The Groundsure Report (Ref. 11) was based on the Site Boundary at the time of commissioning. The Site Boundary has since been altered, however,



the available data are considered sufficient for the assessment irrespective of minor changes.

- 1.3.3 The City of Doncaster Council website (Ref. 12) has been reviewed for any 'contaminated land' register entries as defined under the Environmental Protection Act 1990, Part 2A (Ref. 4), within the Solar PV Site and surrounding area.
- 1.3.4 An Unexploded Bomb (UXB) Risk Map from Zetica (Ref. 13) has been obtained and included as Annex C.
- 1.3.5 Specific information sources are referenced throughout the document and a bibliography is included in Section 13 of this Appendix.

## 2. Site Setting

### 2.1 Location

2.1.1 The Solar PV Site is located within the administrative area of the City of Doncaster Council, approximately 12 km north of Doncaster. The Solar PV Site is approximately centred on National Grid Reference (NGR) SE604161 with an area of approximately 420 hectares (ha).

### 2.2 Description and Setting

- 2.2.1 The Solar PV Site includes land located east of Fenwick and immediately south of the River Went and is defined by the Site Boundary shown in **PEIR Volume II Figure 1-2: Site Boundary Plan**. The Site Boundary for the Solar PV Site shows the current maximum extent of land being considered for the Solar PV Site. It includes land required for temporary and permanent uses and some will be used for landscaping and habitat enhancement rather than Solar PV Site infrastructure. It is important to note that this may be subject to change as the design and environmental impact assessment (EIA) progress and comments from stakeholders and the public during the statutory consultation are taken into account.
- 2.2.2 The Solar PV Site consists of agricultural fields, mainly under arable production, interspersed with individual trees and hedgerows. Where there are hedgerows, these generally form the boundaries of fields as they adjoin roads. The fields are separated by a few minor roads and tracks. There are no structures within the Solar PV Site, except for an agricultural building located to the north of Lawn Lane and east of Fenwick. Sheep grazing was observed in a few areas of the Solar PV Site during the site reconnaissance.
- 2.2.3 The Solar PV Site is mainly surrounded by agricultural fields and wooded areas, adjoined by some agricultural buildings and dwellings. The villages of Fenwick and Moss are located adjacent west and approximately 300 m south of the Solar PV Site, respectively.
- 2.2.4 The River Went borders the northern boundary of the Solar PV Site, flowing in an easterly direction. Fenwick Common Drain flows west to east across the centre of the Solar PV Site, and Fleet Drain runs in a north easterly direction across the eastern part of the Solar PV Site before entering the River Went at the north eastern corner of the Solar PV Site. Several drainage ditches are also located across the Solar PV Site.
- 2.2.5 The topography of the Solar PV Site is relatively flat with existing ground levels generally under 10 m Above Ordnance Datum (AOD) according to online Ordnance Survey (OS) mapping (Ref. 14).
- 2.2.6 Relevant features immediately surrounding (within 250 m) the Solar PV Site are summarised in Table 2-1 sourced from Google Earth (Ref. 15) and the Groundsure Report (Ref. 11).

**Table 2-1: Features Surrounding the Solar PV Site**

<b>Direction</b>	<b>Summary</b>
North	The River Went borders the Solar PV Site to the north with agricultural land beyond.
South	<p>The village of Moss lies approximately 300 m south of the Solar PV Site.</p> <p>A shooting range (Jet Hall Clay Shoot) is located adjacent south of the Solar PV Site on London Lane. This area was not accessible during the site reconnaissance but seems to contain abandoned cars.</p> <p>Farms and a trucking company (Roger Petch Transport Limited) are located adjacent south of the eastern part of the Solar PV Site on West Lane.</p>
East	Agricultural fields bound the Solar PV Site to the east. Residential properties are located 80 m east of the northern part of the Solar PV Site.
West	Fenwick lies adjacent west of the Solar PV Site with residential and commercial properties and farms on Fenwick Common Lane and Lawn Lane. A railway (East Coast Main Line) is adjacent west of the Solar PV Site, west of Fenwick Common Lane.
Central area excluded from the Solar PV Site	Farm buildings are located in the area in the centre of the Solar PV Site (excluded from the Solar PV Site), 100 m from the Solar PV Site.

## 3. Geological and Environmental Setting

### 3.1 Introduction

- 3.1.1 The environmental setting including the topography, geology, hydrogeology, and hydrology are the key factors that influence the way in which contaminants in the soil or groundwater can be transported on and/or off the Solar PV Site, and also the way in which contamination can affect applicable receptors including controlled waters and users of the Solar PV Site and surrounding areas.
- 3.1.2 The environmental setting of the Solar PV Site has been assessed by making reference to the information sources detailed in Section 1.3.

### 3.2 Geology and Soils

#### Published Geology and Exploratory Hole Records

- 3.2.1 AECOM has reviewed publicly available information. The published 1:50,000 scale geological map of the area produced by the BGS (Ref. 16) and the BGS Geindex Onshore online geological mapping (Ref. 17) indicates that the Solar PV Site is underlain by the geological succession summarised in Table 3-1.
- 3.2.2 A bedrock fault is indicated adjacent south west of the Solar PV Site, adjacent south of Moss Road.
- 3.2.3 The BGS maintains an archive of historical exploratory hole records. AECOM has searched the database and those which are considered to provide useful information on the ground profile at the Solar PV Site have been considered as part of the Preliminary Ground Model detailed in Section 7. Copies of these exploratory hole records are included as Annex B. The locations of the boreholes are included in the Groundsure Report (Ref. 11).

**Table 3-1: Geology Encountered Across the Solar PV Site**

Age	Group or Parent	Geological Stratum	Description	Anticipated Thickness (m) (approximate)	Location
<b>Superficial deposits</b>					
Quaternary Age	Fluvial Deposits	Alluvium	Clay, silt, sand and gravel	Variable.	Along the northern boundary of the Solar PV Site, in proximity of the River Went and across the eastern extent of the Solar PV Site, along Fleet Drain.
Triassic Age	North Pennine Glaciogenic Subgroup	Hemingbrough Glaciolacustrine Formation	Silty clay	Variable, maximum 30 m.	Across the entire Solar PV Site.
Triassic Age	Yorkshire Catchments Subgroup	Brighton Sand Formation	Sand	Average 1 to 2 m; but can exceed 6 m in some areas.	Scattered areas in the centre and south of the Solar PV Site.
<b>Bedrock</b>					
Induan Age — Anisian Age	New Red Sandstone Supergroup	Sherwood Sandstone Group	Sandstone	Variable (38 m (BGS borehole SE61SW33); 67 m (BGS borehole SE51SE3).	Across the entire Solar PV Site.

## Soils and Chemistry

- 3.2.4 Natural England (Ref. 18) reports the Agricultural Land Classification (ALC) for the Solar PV Site to be mainly Grade 4 (poor); with some areas of Grade 3 (good to moderate). However, Natural England maps represent a generalised pattern of land classification grades and are not sufficiently accurate for use in the assessment of individual fields. The maps do not show the subdivisions of Grade 3 which are normally mapped by a more detailed survey. Information obtained from Soilscape (Ref. 19) describes the soils within the Solar PV Site as (Soilscape 18) “*slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils*”.
- 3.2.5 The Groundsure Report (Ref. 11) provides indicative information on regional concentrations of five potentially harmful elements (PHEs) including arsenic, cadmium, chromium, nickel, and lead in soil. Elevated concentrations of these PHEs can exist because of natural geological conditions or possible anthropogenic contamination. The values are estimated primarily from rural topsoil data collected at a sample density of approximately one per 2 km<sup>2</sup> (presented in Table 3-2).

**Table 3-2: Estimated Soil Chemistry**

Potentially Harmful Element	Estimated Geometric Mean Concentration (mg/kg)
Arsenic	15
Cadmium	1.8
Chromium	20 – 40 to 60 – 90
Lead	100
Bio-accessible lead	60
Nickel	15 to 15 – 30

## 3.3 Ground Stability Records

- 3.3.1 Table 3-3 shows the variable risk of ground stability hazards across the Solar PV Site, taken from the Groundsure Report (Ref. 11).

**Table 3-3: Ground Stability Records**

Hazard Type	Hazard Potential
Collapsible Hazard	Very low
Compressible Hazard	Negligible to Moderate. Moderate across most of the Solar PV Site.
Ground Dissolution Hazard	Negligible
Landslide Hazard	Very Low

Hazard Type	Hazard Potential
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Running Sand Hazard	Negligible to low
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Shrinking or Swelling Clay Hazard	Negligible to low
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## Mining and Mineral Extraction

### Aggregate/Mineral Quarrying, Mining and Mineral Sites

- 3.3.2 Table 3-4 presents the available information on mining and quarrying operations (Ref. 11), past or present that are known to have taken place on and within 250 m of the Solar PV Site.

**Table 3-4: Quarrying (<250 m of the Solar PV Site)**

Distance and Direction	Name	Operator	Status/Material Quarried
165 m west of the southern part of the Solar PV Site, east of Fenwick Common Lane	Fenwick Common Sand Pit	NA	Ceased/Sand

### Coal Mining

- 3.3.3 The Coal Authority’s Interactive Map Viewer (Ref. 20) indicates that the Solar PV Site is within the Nottinghamshire Coal Mining Reporting Area. There are no Development High Risk Areas (DHRA) within the Solar PV Site (Ref. 18).
- 3.3.4 The Groundsure Report (Ref. 11) recommends that a Coal Mining Report is obtained to further assess coal mining issues at the Solar PV Site.

### Radon

- 3.3.5 The UK Health Security Agency (UKHSA) and BGS interactive map for radon (Ref. 21) indicates that the entire Solar PV Site is within a low probability radon area (less than 1% of homes are estimated to be above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.

## 3.4 Hydrogeology

### Aquifer Classification

- 3.4.1 The Environment Agency’s Groundwater Protection Policy adopts aquifer designations that are consistent with the Water Framework Directive (WFD). Definitions of the various aquifer types can be found on the Environment Agency section of the gov.uk website (Ref. 22). According to this system, the superficial deposits underlying the Solar PV Site are classified as Unproductive Strata (Hemingbrough Glaciolacustrine Formation) and Secondary A Aquifers (Brighton Sand Formation and Alluvium). The bedrock geology of the Sherwood Sandstone Group is classified as a Principal Aquifer.

## Groundwater Vulnerability

- 3.4.2 The Environment Agency's Simplified Groundwater Vulnerability Map in Magic (Ref. 23) shows that the Solar PV Site is located in an area where the groundwater vulnerability to pollution is generally low. The groundwater vulnerability is medium across small areas where the Brighton Sand Formation and alluvial deposits are mapped.
- 3.4.3 All associated terminology/definitions can be found on the Environment Agency section of the gov.uk website (Ref. 22).

## Source Protection Zones and Drinking Water Safeguarding Zones for Groundwater

- 3.4.4 In terms of identifying the risk of contamination from potentially polluting activities in a given area to groundwater sources (wells, boreholes and springs) used for supplying public drinking water, the Environment Agency identifies Source Protection Zones (SPZ). These show the extent of a groundwater source catchment and are divided into three zones, which can be found on the Environment Agency section of the gov.uk website (Ref. 22).
- 3.4.5 The northern part of the Solar PV Site lies within a Zone III (Total Catchment) SPZ (Ref. 23).
- 3.4.6 None of the Solar PV Site lies within a Drinking Water Safeguard Zone for surface water or groundwater (Ref. 23). A Drinking Water Safeguard Zone (groundwater) lies approximately 1 km north of the Solar PV Site northern boundary.

## Licensed Groundwater Abstractions

- 3.4.7 The Groundsure Report (Ref. 11) does not identify any licensed groundwater abstractions at the Solar PV Site or within 2 km of the Solar PV Site.

## Risk of Flooding from Groundwater

- 3.4.8 The Groundsure Report (Ref. 11) indicates that there is generally a moderate to high potential for groundwater flooding to occur within the Solar PV Site. The areas with the highest risk are those surrounding watercourses.

## Surface Water Courses and Drainage

- 3.4.9 The Solar PV Site is located within the Don Lower Catchment (Ref. 24). The Solar PV Site mostly lies within the Went from Blowell Drain to the River Don water body. The south eastern part of the Solar PV Site lies within the Don from Mill Dyke to River Ouse water body. These waterbodies are classified as having the ecological status of moderate in 2022.
- 3.4.10 The River Went flows eastwards, following the northern boundary of the Solar PV Site and typically is not flanked by vegetation, other than occasional clumps of deciduous woodland.
- 3.4.11 A series of drains cross the central and southern parts of the Solar PV Site, including Fleet Drain which runs from south to connect to the River Went, north of Topham. Fenwick Common Drain crosses the Solar PV Site in its central extent.



## Licensed Surface Water Abstractions

3.4.12 Six licensed surface water abstractions entries have been identified along the northern boundary of the Solar PV Site, on the River Went; and two entries have been identified within 250 m of the Solar PV Site (Ref. 11). Four further entries have been identified between 500 m and 1 km of the Solar PV Site. The abstractions are listed in Table 3-5.

**Table 3-5: Licensed Surface Water Abstractions**

<b>Grid Reference (GR)</b>	<b>Distance (metres) and Direction/Location</b>	<b>Operator</b>	<b>Source</b>	<b>Use/status</b>
460400 417500	On the northern border of the Solar PV Site	W M Falkingham (Balne) Ltd	River Went	Spray Irrigation – Direct/ Historical
460174 417418	On the northern border of the Solar PV Site	C and R Clark	River Went	Spray Irrigation – Direct/ Active
460658 417638	On the northern border of the Solar PV Site	C and R Clark	River Went	Spray Irrigation – Direct/ Active
461300 417400	On the northern border of the Solar PV Site	W M Falkingham (Balne) Ltd	River Went	Spray Irrigation – Direct/ Historical
461300 417400	On the northern border of the Solar PV Site	W M Falkingham (Balne) Ltd	River Went	Spray Irrigation – Direct/ Active
460800 417600	On the northern border of the Solar PV Site	C G Bayston and Son (1998-2006)	River Went	Spray Irrigation- Direct/ Historical

Grid Reference (GR)	Distance (metres) and Direction/Location	Operator	Source	Use/status
459308 417228	90 m west of the Solar PV Site	C and R Clark	River Went	Spray Irrigation-Direct/ Active
459568 417302	90 m west of the Solar PV Site	C and R Clark	River Went	Spray Irrigation-Direct/ Active
458912 417130	640 m west of the Solar PV site	Woodwards (Balne) Ltd	River Went	Spray Irrigation-Direct/ Active
458800 417200	750 m west of the Solar PV site	Woodwards (Balne) Ltd	River Went	Spray Irrigation-Direct/ Historical
458685 417074	870 m west of the Solar PV site	C and R Clark	River Went	Spray Irrigation-Direct/ Active
457771 416707	870 m west of the Solar PV site	C and R Clark	River Went	Spray Irrigation-Direct/ Active

### Private Water Supplies

3.4.13 Following consultation with the Local Authority regarding records of private water abstractions, there is one private abstraction within the City of Doncaster Council area and within 1 km from the Solar PV Site. This abstraction, for irrigation, is located approximately 830 m east of the Solar PV Site, in Broad Lane, Sykehouse, Doncaster. This abstraction is indicated in **PEIR Volume II Figure 9-2: Groundwater Features and their Attributes**.

### Risk of Flooding from Surface Water

3.4.14 The indicative floodplain map (Ref. 25) for the area, published by the Environment Agency, shows that the risk of surface water flooding at the Solar PV Site is generally very low (annual chance of flooding of less than 0.1%) with areas of medium (chance of flooding of less than 3.3%) and high risk (chance of flooding of greater than 3.3%) generally associated with watercourses.

## River and Coastal Flooding

- 3.4.15 The majority of the Solar PV Site is located within Flood Zone 2 (medium risk of flooding), with areas of Flood Zone 3 (high risk) along the watercourses, in the eastern and southern extent of the Solar PV Site (Ref. 25).

## 4. Historical and Planned Development

### 4.1 Historical Ordnance Survey Mapping and Aerial Photographs

- 4.1.1 Historical OS maps of the Solar PV Site and the wider environs were provided in the Groundsure Report (scales 1:2,500, 1:1,250) (Ref. 11, Annex A) and from Google Earth Pro (Ref. 15) and are reviewed in this section.
- 4.1.2 The historical OS maps obtained with the Groundsure Report (Ref. 11) date between mid-19th Century to present (2023). Table 4-1 provides a summary of the main features present on, and within, approximately 250 m radius of the Solar PV Site. It should be noted that only indicative map scales are provided. Where dates are stated, these refer to the dates of maps on which the features are present, have changed use or are no longer annotated, and do not necessarily refer to the exact dates of existence of a particular feature. Development that may have occurred between map editions is recorded as occurring on the later published map, hence there are some limitations to the accuracy of the date of development unless supplementary evidence is available.

**Table 4-1: Summary of Historical Mapping**

Date(s) and Maps	Key Features within the Solar PV Site	Key Features Off-Site
Pre-1900 – 1:2,500 – 1:10,560	<ul style="list-style-type: none"> <li>a. The Solar PV Site consists of agricultural fields, with limited parcels of trees, various drains, ponds, farm access tracks and small country lanes.</li> <li>b. Whin Covert and Box Wood extend across the south western part of the Solar PV Site (GSIP-2023-13870-14751_LS_1_1).</li> <li>c. Ell Wood extends across the south western part of the Solar PV Site (GSIP-2023-13870-14751_LS_2_1).</li> <li>d. Near Wood extends across the western part of the Solar PV Site (GSIP-2023-13870-14751_LS_2_2).</li> <li>e. Fenwick House is located within the Solar PV Site along Lawn Lane, to the east of Fenwick (GSIP-2023-13870-14751_LS_2_3).</li> <li>f. Hags House is in the central part of the Solar PV Site (GSIP-2023-13870-14751_LS_3_2) (GSIP-2023-13870-14751_SS_1_1).</li> <li>g. Former meanders of the course of River Went are shown along the northern PV Solar Site boundary (GSIP-2023-13870-14751_SS_2_2).</li> <li>h. An embankment is indicated adjacent east of Fleet Drain in the north eastern part of the PV Solar Site (GSIP-2023-13870-14751_SS_2_2).</li> </ul>	<ul style="list-style-type: none"> <li>a. The Solar PV Site is surrounded by agricultural fields, with a few farm buildings and yards adjacent to the Solar PV Site.</li> <li>b. A smithy is located 150 m west of the Solar PV Site, in Fenwick (GSIP-2023-13870-14751_LS_1_3).</li> <li>c. The village of Fenwick, including farm buildings, is located adjacent west of the Solar PV Site (GSIP-2023-13870-14751_LS_2_3).</li> <li>d. Remains of a moat and farms buildings are located in the central part of the Solar PV Site but excluded from the Solar PV Site boundary (GSIP-2023-13870-14751_LS_3_3).</li> <li>e. A few buildings are located 100 m east of the north eastern part of the Solar PV Site on Topham (GSIP-2023-13870-14751_LS_5_5).</li> <li>f. West End Farm is located adjacent south of the Solar PV Site, on West Lane.</li> </ul>
1900 to 1910 – 1:10,560	No significant change since previous map.	<ul style="list-style-type: none"> <li>a. North Eastern Railway runs in a northern direction adjacent west of the Solar PV Site. Moss Station is adjacent west of the Solar PV Site, in Moss Road (GSIP-2023-13870-14751_SS_1_1).</li> </ul>

Date(s) and Maps	Key Features within the Solar PV Site	Key Features Off-Site
1920 to 1930 – 1:10,560	No significant change since previous map.	No significant change since previous map.
1930 to 1940 – 1:10,560	No significant change since previous map.	a. Gowdall and Braithwell railway is indicated 50 m east of the Solar PV Site, crossing West Lane (GSIP-2023-13870-14751_SS_2_1).
1940 to 1950 – 1:10,560	No significant change since previous map.	No significant change since previous map.
1950 to 1960 – 1:2,500 – 1:10,560	a. Woodlands (Whin Covert and Box Wood) are no longer shown across the south western part of the Solar PV Site (GSIP-2023-13870-14751_LS_1_1). b. Manor Farm is indicated at the location of the former Fenwick House, on Lawn Lane, to the east of Fenwick (GSIP-2023-13870-14751_LS_2_3).	a. The smithy is no longer shown 150 m west of the Solar PV Site, in Fenwick (GSIP-2023-13870-14751_LS_1_3). b. A small unspecified pit is shown 50 m north of the Solar PV Site.
1960 to 1970 – 1:2,500 – 1:10,560	a. Ell Wood is no longer shown across the south western part of the Solar PV Site (GSIP-2023-13870-14751_LS_2_1). b. Pylons are located in the south eastern part of the Solar PV Site, west of West End Farm (GSIP-2023-13870-14751_LS_4_3) and west of Bungalow Farm (GSIP-2023-13870-14751_LS_5_3).	a. Moss Station is no longer shown adjacent west of the Solar PV Site, in Moss Road (GSIP-2023-13870-14751_SS_1_1).
1970 to 1980 – 1:10,000	No significant change since previous map.	No significant change since previous map.
1980 to 1990 – 1:2,500 – 1:10,000	a. The layout of Manor Farm has changed (GSIP-2023-13870-14751_LS_2_3).	No significant change since previous map.

Date(s) and Maps	Key Features within the Solar PV Site	Key Features Off-Site
	<ul style="list-style-type: none"> <li>b. A small pond previously located on the north western part of the Solar PV Site is no longer shown on the map (GSIP-2023-13870-14751_LS_2_5).</li> </ul>	
1990 to 2000 – 1:2,500	<ul style="list-style-type: none"> <li>a. Near Wood is no longer shown across the western part of the Solar PV Site (GSIP-2023-13870-14751_LS_2_2).</li> <li>b. An electricity pylon is located in the south eastern part of the Solar PV Site, north of Bungalow Farm (GSIP-2023-13870-14751_LS_5_3).</li> <li>c. Pylons are located across the eastern part of the Solar PV Site (GSIP-2023-13870-14751_LS_5_4) (GSIP-2023-13870-14751_LS_5_5).</li> </ul>	<ul style="list-style-type: none"> <li>d. Gowdall and Braithwell railway (50 m east of the Solar PV Site) is indicated as dismantled (GSIP-2023-13870-14751_LS_5_3).</li> </ul>
2000 to 2010 – 1:1,250 – 1:10,000	<ul style="list-style-type: none"> <li>Haggs House is no longer shown in the central part of the Solar PV Site (GSIP-2023-13870-14751_SS_1_1).</li> </ul>	<ul style="list-style-type: none"> <li>a. West End Cottage is adjacent south of the Solar PV Site on West Lane (GSIP-2023-13870-14751_Landline_8_4).</li> <li>b. Tanks are shown 60 m south of the Solar PV Site, south of West Lane (GSIP-2023-13870-14751_Landline_9_4)</li> </ul>
2010 to 2020 – 1:10,000	<ul style="list-style-type: none"> <li>No significant change since previous map.</li> </ul>	<ul style="list-style-type: none"> <li>No significant change since previous map.</li> </ul>
2023 – 1:10,000	<ul style="list-style-type: none"> <li>No significant change since previous map.</li> </ul>	<ul style="list-style-type: none"> <li>No significant change since previous map.</li> </ul>

- 4.1.3 Google Earth Pro (Ref. 15) contains aerial imagery of the area from various dates between December 2002 and September 2023. The images show Manor Farm on Lawn Lane, to the east of Fenwick across that western part of the Solar PV Site since at least December 2002. The farm is shown as demolished, and the area cleared in the image dated April 2014. Aerial imagery dated July 2015 shows a small building at the location of the former Manor Farm. This building has been identified on site during the site reconnaissance; and likely used for agricultural purposes.
- 4.1.4 AECOM geophysical survey identified a buried line which was not shown on the current utility plans, across the southwestern part of the Solar PV Site. It is understood that this service was likely a disused water pipe.

## 4.2 Local Planning Authority Records

### City of Doncaster Council

- 4.2.1 A search of planning application records on, and within, 250 m of the Solar PV Site has been undertaken using the search facility on the City of Doncaster Council website (Ref. 26). There have been several applications for residential developments and grain storage since 1983 (the earliest available records). Table 4-2 summarises the most relevant applications (where potential impact to the ground may have occurred) in the records dating back to 1983.

**Table 4-2: Local Planning Authority Records**

Decision date	Application Status	Location	Reference	Description
29 August 2012	Granted	Manor Farm Lawn Lane Fenwick Doncaster DN6 0HB Within the Solar PV Site toward the north western extent.	12/01174/EXT	Conversion of redundant agricultural barns to form 4 dwellings including erection of single storey extension and garage accommodation (being extension of time to planning application 03/5949/P granted on appeal on 12.09.07).
20 October 2014	Granted	Manor Farm Lawn Lane	14/01603/FUL	Erection of multi-purpose



Decision date	Application Status	Location	Reference	Description
		Fenwick Doncaster DN6 0HB Within the Solar PV Site toward the north western extent.		barn/hay store (approx. 34 m x 24 m) on approx. 0.92 ha of land.
20 February 1995	Decided	The Dovecote West End Cottage West Lane Sykehouse. Adjacent south of the Solar PV Site in West Lane.	94/3782/P	Continuation of use of land for haulage business from site (previously approved under 90/73/3746/F UL on 24.12.91.

## 4.3 Unexploded Ordnance Risk

### Wartime Land-Use

- 4.3.1 Based on a review of historical maps (Ref. 11), the Solar PV Site was open land during wartime Britain and was undeveloped, meaning it was possible for bomb strikes to go unobserved.

### Post War Development

- 4.3.2 An analysis of the post war historical map (Ref. 11) does not show obvious, visible changes of the land uses on the Solar PV Site which could indicate potential aerial bombing. However, due to its rural nature, the chances of Unexploded Ordnance (UXO) going unnoticed do exist. An online search has been undertaken for mentions of recent ordnance discovery reported at or around the Solar PV Site. The search did not identify any reported records of ordnance in the Study Area.

### Unexploded Bomb Mapping

- 4.3.3 The regional Unexploded Bomb (UXB) mapping published by Zetica (Ref. 13, Annex C) show that the Solar PV Site lies within a zone that experiences a low risk of UXB. It is estimated that the bombing density of the area is 15 bombs or less within 1000 acres. It should be noted that the Zetica maps provide a high-level assessment of regional World War II bombing densities and do not assess the presence of other potential sources of UXO.

## Table 4-3: Historical and Planned Development Key Findings

### Historical and Planned Development Key Findings

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The Solar PV Site was undeveloped land/agricultural fields since the earliest available historical maps (late 1800s), with contamination sources limited to potential application of pesticides and fertilisers for agricultural purposes. Potential contaminative sources identified locally within the Solar PV Site may be associated with former small ponds which may have been filled with a variety of (potentially unlicensed) waste materials. Infilled land may be also associated with the land adjacent south of the River Went, given that this watercourse originally meandered within the Solar PV Site (across the northern extent). The course of the River Went was modified pre-1900s. Farmland, including farm buildings and yards where fuel and agricultural materials were/are stored, are shown at two locations within the Solar PV Site (former Manor House located on Lawn Lane, to the east of Fenwick; and former Higgs House in the central part of the Solar PV Site) and adjacent to the Solar PV Site. An agricultural building (barn/hay store) is currently present at the location of the former Manor House.

The land uses surrounding the Solar PV Site (relevant to land contamination) include, in addition to farmland, current and former railway lines (adjacent west and 50 m east of the Solar PV Site, respectively); a former train station (adjacent west of the Solar PV Site), a former smithy (150 m west of the Solar PV Site) and unspecified tanks (60 m south of the Solar PV Site).

The planning records indicate the presence of a haulage business/trucking company, adjacent south of the Solar PV Site, on West Lane.

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## 5. Regulated Activities and Statutory Consultation

### 5.1 Introduction

- 5.1.1 The key relevant features that characterise the Solar PV Site and surrounding area are summarised in this section, along with an indication of the risk to the land quality of the Solar PV Site.
- 5.1.2 Information on groundwater and surface water abstractions is detailed in Paragraphs 3.4.7 and 3.4.12 and is not repeated here.
- 5.1.3 Generally, any regulated activities within 250 m of the Solar PV Site could, depending upon their nature, represent potential off-site sources of contamination. This section indicates the activities present within 250 m. The extent of this Study Area has been developed using professional judgement on the basis that contamination migration beyond this distance is likely to be minimal. This principle has been applied in assessing similar sites.

### 5.2 Regulated Processes

- 5.2.1 Table 5-1 summarises information on regulated processes contained in the Groundsure Report (Ref. 11). The Groundsure Report collates data from a variety of sources including the Environment Agency and the BGS.
- 5.2.2 There were no instances of the following data (within 250 m of the Solar PV Site) identified within the information sources reviewed:
- a. Sites determined as Contaminated Land;
  - b. Control of Major Accident Hazards (COMAH);
  - c. Regulated Explosive Sites;
  - d. Hazardous Substance storage/usage;
  - e. Historical Licensed Industrial Activities (IPC);
  - f. Licensed industrial activities (Part A (1));
  - g. Licensed pollutant release (Part A (2)/B);
  - h. Radioactive Substance Authorisations;
  - i. Pollutant release to surface waters (Red List);
  - j. Pollutant release to public sewer;
  - k. List 1 Dangerous Substances;
  - l. List 2 Dangerous Substances;
  - m. Pollution inventory substances;
  - n. Pollution inventory waste transfers; and
  - o. Pollution inventory radioactive waste.
- 5.2.3 The City of Doncaster Council website (Ref. 12) indicates that there are currently (as of December 2023) no entries on their public register of 'contaminated land' within the Study Area, as defined under the Environmental Protection Act 1990, Part 2A (Ref. 4).

**Table 5-1: Summary of Regulatory Information**

Subject	Number Present		Details
	On site	0-250 m	
<b>Agency and Hydrological</b>			
Licensed Discharges to controlled water	NA	1	One (lapsed) discharge consent is listed off-site, 50 m north of Moss Road, which is part of the Solar PV Site. It related to sewage discharges of final treated effluent into a tributary of Fenwick Grange Drain, in Fenwick Lane (Ref. 11).
Pollution Incidents (EA/NRW)	NA	1	One pollution incident to controlled waters is listed off-site, adjacent north of Moss Road, which is part of the Solar PV Site. The pollution incident relates to waste materials and occurred in January 2010. The entry shows a significant impact to land and a minor impact to air and water (Ref. 11).

### 5.3 Licensed Waste Management Facilities

- 5.3.1 An attempt has been made to identify landfilling operations, past and present, that have taken place in the vicinity (within 250 m) of the Solar PV Site.
- 5.3.2 There are no active or recent landfill, historical landfill, historical waste sites or licensed waste sites within 250 m of the Solar PV Site.
- 5.3.3 There are 19 waste exemption entries within the Solar PV Site, 28 within 50 m from the Solar PV Site and 282 between 50 and 250 m of the Solar PV Site. The waste exemption entries located within the Solar PV Site are all for storage of sludge. The waste exemption entries located within 250 m of the Solar PV Site are for storage of sludge; use of mulch; use of waste in construction; burning of waste as a fuel in a small appliance; spreading waste on agricultural land to confer benefit; spreading of plant matter to confer benefit; incorporation of ash into soil; pig and poultry ash; treatment of waste wood and waste plant matter by chipping; shredding, cutting or pulverising; recovery of scrap metal; use of waste to manufacture finished goods; treatment of sheep dip for disposal; treatment of non-hazardous pesticide washings by carbon filtration for disposal; disposal by incineration; and burning waste in the open.

### 5.4 Current Industrial Land Use

- 5.4.1 There are no current industrial land use entries within the Solar PV Site, except for five electricity pylons, located across the eastern part of the Solar PV Site.
- 5.4.2 There are a further 14 current industrial land uses within 250 m of the Solar PV Site and these are summarised Table 5-2. Any significant inactive listings thought not to be covered by the historical development review in Section

4.1 are also noted if present and/or identified. There were no instances of current or recent petrol stations and gas pipelines identified within the information sources reviewed.

**Table 5-2: Potentially Contaminative Industrial Land Use on and Within 250 m of the Solar PV Site**

<b>Subject</b>	<b>Location Details</b>	
Potentially contaminative industrial sites	On-Site	a. Electricity pylons – eastern extent of the Solar PV Site.
	Off-Site	<ul style="list-style-type: none"> <li>a. Electricity pylons – 20 m, 40 m, 60 m and 220 m south of the eastern extent of the Solar PV Site.</li> <li>b. Wind turbine – 80 m south (in the central area excluded from the Solar PV Site Boundary).</li> <li>c. Electricity pylons – 180 m north of the eastern extent of the Solar PV Site.</li> <li>d. Pump – 180 m east of the northern extent of the Solar PV Site.</li> <li>e. Electricity pylons – 180 m, 220 m and 230 m east of the southern extent of the Solar PV Site.</li> <li>f. Tanks – adjacent east of the southwestern extent of the Solar PV Site, on London Lane.</li> <li>g. Kernel feeders – adjacent east (east of Fenwick Common Lane).</li> </ul>

## 5.5 Environmental Designations

- 5.5.1 The Groundsure Report (Ref. 11) identifies sensitive land uses in the form of Sites of Special Scientific Interest (SSSI), Conserved wetland sites (Ramsar sites), Special Areas of Conservation, Special Protection Areas, National Nature Reserves, Local Nature Reserves, Designated Ancient Woodland, Biosphere Reserves, Forest Parks, Marine Conservation Zones, Green Belt, Possible Special Areas of Conservation, Potential Special Protection Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones, SSSI Impact Risk Zones and SSSI Units.
- 5.5.2 Areas of Green Belt bound the Solar PV Site to the north; and extend adjacent west of Fenwick Common Lane, which is partly included in the Solar PV Site Boundary.
- 5.5.3 Bunfold Shaw is an area of Designated Ancient Woodland that lies in the centre of the Solar PV Site but is excluded from being within the Solar PV Site Boundary.
- 5.5.4 The Solar PV Site lies within a Nitrate Vulnerable Zone (NVZ) (Went from Blowell Drain to the River Don NVZ) and within SSSI Impact Risk Zones with several developments requiring consultation. The consultation required does not include solar panels or associated infrastructure.
- 5.5.5 According to the Doncaster Local Plan 2015-2035 (Adopted) Policies Map (Ref. 27) there are no Local Geological Sites within the Solar PV Site and within 250 m of the Solar PV Site.

5.5.6 There are no other sensitive land uses within 250 m of the Solar PV Site.

## 6. Site Reconnaissance

- 6.1.1 An inspection of the Solar PV Site was completed by a suitably qualified and experienced AECOM Engineer on 26 July 2023. The aim of the visit was to identify the range of activities carried out on the Solar PV Site and obvious potential sources of ground contamination.
- 6.1.2 A photographic record of the visit is included as Annex D. Maps showing the site walkover observations and photo locations are appended as Figure 1 and Figure 2.
- 6.1.3 The Solar PV Site consists of agricultural fields used for crops or grazing and some areas of dense vegetation. There are a number of access tracks/lanes that run through the Solar PV Site connecting the fields. Several drains were observed within the Solar PV Site. Electrical pylons are located across the eastern part of the Solar PV Site. Due to its size, the site walkover took place at several locations spread evenly throughout the Solar PV Site. Access to some parts of the Solar PV Site was restricted due to hedgerows, foliage, and fencing. The most relevant observations are listed as follows:
- a. Photo 1a (in Annex D) shows discarded materials on the northern bank of the River Went, to the north of the Solar PV Site (off-site). Wildlife was also present at this location;
  - b. Photo 1b (in Annex D) shows the River Went flowing along the northern Site Boundary. No evidence of contamination was observed in the watercourse;
  - c. Photo 2 (in Annex D) shows waterlogged ground along the northern Site Boundary;
  - d. Photo 6 (in Annex D) shows agricultural machinery working on the Solar PV Site;
  - e. Photos 7, 8 and 9 (in Annex D) show areas where sheep grazing was present during the site reconnaissance; and
  - f. Photo 10a (in Annex D) shows a metal container located within the Solar PV Site and agricultural machinery, to the north of Lawn Lane, in the western part of the Solar PV Site.

## 7. Preliminary Ground Model

7.1.1 Based on the review of published geological and hydrogeological information and a selection of historical borehole records, the ground conditions within the Solar PV Site are considered to comprise the following sequence presented in Table 1.

**Table 1: Preliminary Ground Model**

<b>Geology</b>	<b>Description</b>	<b>Thickness</b>	<b>Groundwater</b>
Superficial deposits (Alluvium, Hemingbrough Glaciolacustrine Formation and Brighton Sand Formation)	Clay with scattered bands of sand	Hemingbrough Glaciolacustrine Formation up to 30 m thick, Brighton Sand Formation up to 6 m thick.  Drift deposits are indicated up to 14 m bgl in BGS borehole SE51NE15 (located in Fenwick Common Lane, western part of the Solar PV Site).	Not reported
Bedrock Geology of Sherwood Sandstone Group	Sandstone	Variable (38 m (BGS borehole SE61SW33); 67 m (BGS borehole SE51SE3)).	Not reported



## 8. Initial Conceptual Site Model

### 8.1 Introduction

8.1.1 This section is aimed at identifying possible risks, if any, arising from substances used or deposited within the Solar PV Site, or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered. It is based on the Solar PV Site, as identified in Section 1. The aim of the initial CSM is to inform future decision making and the design of any future ground investigation, if needed.

### 8.2 Preliminary Ground Gas Risk Assessment

8.2.1 The CL:AIRE Research Bulletin RB17 A Pragmatic Approach to Ground Gas Risk Assessment 2012 (Ref. 28), describes a method of estimating the potential gas risk of a site based on the geology and historical use. Table 8-1 presents the considerations included in the RB17 methodology together with the likely status for the Solar PV Site, based upon the data collected and reviewed in the above sections of this report.

**Table 8-1: Consideration of Potential Ground Gas Risk**

<b>Considerations from RB17</b>	<b>Applicable information for the Solar PV Site</b>
If there is a credible source underlying or in the close vicinity of the site.	Alluvium and localised infilling are considered a credible source but limited and not present site wide.
If the site been registered as a landfill (not including general Made Ground) or whether there are mine openings nearby.	The Solar PV Site has not been registered as a landfill. There are no mine openings nearby.
If the maximum Made Ground depth is greater than 5 m or there is an average depth greater than 3 m.	Although the presence of Made Ground at the Solar PV Site is possible, significant thickness is unlikely, based on site development history.
If the Total Organic Carbon (TOC) in Made Ground exceeds 4% or 6% where the Made Ground is greater than 20 years old.	Unknown, but Made Ground likely to be thin and of low significance.
Whether radon protective measures are required.	None required.
If an off-site source is present, is there a credible pathway to the development site based on the distance, the specific ground conditions and topography, or whether there are potential effects such as rising ground water which would have the	Credible pathway may be associated with alluvial deposits located off-site.

## Considerations from RB17

## Applicable information for the Solar PV Site

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potential to force large volumes of gas from the ground in a short period.

- 8.2.2 Based on this preliminary gas risk assessment, gas monitoring is likely to be a requirement for the Solar PV Site. This is due to the presence of Alluvium and localised infilling of former ponds. The depth and content of the fill is unknown. By virtue of the development comprising a solar farm, the linkage associated with accumulation could be limited to any service buildings/enclosures.

## 8.3 Assessment Framework

- 8.3.1 The Solar PV Site, in terms of potential land contamination, will be regulated by the Local Planning Authority (City of Doncaster Council) (Ref. 29), taking account of the NPPF 2023 (Ref. 3), with the Environment Agency, Natural England and Historic England acting as potential statutory consultees.
- 8.3.2 Environmental liabilities can arise through provisions contained within statutory legislation including Part 2A of the Environmental Protection Act 1990 (Ref. 4), the Environmental Damage (Prevention and Remediation) (England) Regulations 2015 (Ref. 30), the Water Resources Act 1991 (Ref. 31), the Environmental Permitting (England and Wales) Regulations 2016 and the Water Act 2003 (Ref. 32).
- 8.3.3 Current industry good practice recommends that the determination of health hazards due to land contamination is based on the principle of risk assessment, as outlined in the Statutory Guidance to Part 2A (Ref. 4) and LCRM (Ref. 1).
- 8.3.4 The 'suitable for use' approach is adopted for the assessment of land contamination where remedial measures are undertaken if unacceptable risks to human health or the environment are realised considering the use (or proposed use) of the land in question and the environmental setting. The proposed end-use for the Solar PV Site is the installation of Solar PV Panels and BESS Battery Containers.
- 8.3.5 The risk assessment process for environmental contaminants is based on a source-pathway-receptor analysis. These terms can be defined as follows:
- a. Source: hazardous substance that has the potential to cause adverse impacts.
  - b. Pathway: route whereby a hazardous substance may come into contact with the receptor: examples include ingestion of contaminated soil and leaching of contaminants from soil into watercourses.
  - c. Receptor: target that may be affected by contamination: examples include human occupants/users of site, water resources (surface waters or groundwater), or structures.
- 8.3.6 For a risk to be present, there must be a relevant/viable contaminant linkage i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

- 8.3.7 The following sections detail the initial CSM which has been developed for the Solar PV Site with a view to assessing the potential risks/liabilities and constraints associated with the Solar PV Site in its current condition prior to any development. Risks associated with the Solar PV Site have also been assessed based on a future land use scenario as a solar farm, including potential sources of contamination, potential receptors and potential contaminant pathways identified during this desk-based assessment.

## 8.4 Sources of Potential Contamination

### On Site – Solar PV Site

- 8.4.1 The potential for localised contamination has been identified on the Solar PV Site. This includes farm buildings and yards where fuel and agricultural materials were/are stored. Manor House was formerly located within the Solar PV Site, in Lawn Lane, to the east of Fenwick; and an agricultural building (barn/hay store) is currently present at this location. Higgs House is shown in the central part of the Solar PV in historical maps dated between pre-1900 and 1951.
- 8.4.2 Potential sources of contamination (albeit limited) have been also identified locally within the Solar PV Site and consist of historical small ponds scattered across the Solar PV Site, which may have been filled with a variety of (potentially unlicensed) waste materials. Infilled land may be also associated with the areas to the south of the River Went, along the northern boundary of Solar PV Site. However, as the course of the river was modified pre-1900s, any impacts due to rapid migration of contaminants from made ground would likely already have occurred. An embankment has been identified across the eastern part of the Solar PV Site. Similarly, given the age of this feature, the potential for contamination is very low at this location.
- 8.4.3 Several waste exemption entries, associated with storage of sludge, are indicated within the Solar PV Site in the Groundsure Report (Ref. 11).
- 8.4.4 Potential contaminants associated with the above sources include metals, semi-metals, asbestos, organic and inorganic compounds. In addition, there is the potential for ground gases such as methane or carbon dioxide, albeit potentially low.
- 8.4.5 The Solar PV Site is occupied by agricultural land comprising arable fields. It is considered that although chemicals such as pesticides, herbicides and insecticides may have been used within the Solar PV Site and in its proximity, these chemicals typically have a low residency time in soils, and they degrade rapidly in compliance with the requirements for crops and grazing prior to products being used for human consumption. Therefore, agricultural uses are not considered a potential significant source of contamination.

### Off Site – Solar PV Site

- 8.4.6 The following potential sources of off-site contamination have been identified as requiring consideration for the Solar PV Site:
- a. Farm buildings located adjacent to the Solar PV Site at various locations;

- b. Former railway line (Gowdall and Braithwell railway) (50 m east of the Solar PV Site);
  - c. Current trucking company (adjacent south of the Solar PV Site, on West Lane); and
  - d. Current shooting range/areas of abandoned cars (adjacent south of the Solar PV Site, on London Lane).
- 8.4.7 The former smithy (150 m west of the Solar PV Site, in Fenwick) is small scale, hence not considered to be a pertinent off-site source. Unspecified tanks (60 m south of the Solar PV Site, south of West Lane; and 210 m south of the western extent of the Solar PV Site) would be also excluded from the assessment, due to the distance from the Solar PV Site. Potential pathways from contaminant migration to the Solar PV Site from these locations are also restricted by the low permeability Hemingbrough Glaciolacustrine Formation, which underlies most of the Solar PV Site.
- 8.4.8 The current railway line (East Coast Main Line) and the former train station in Moss Road are over 400 m from the areas of the Solar PV Site which will be developed with Solar PV Panels, and given the distance, they would not be considered as potential sources.
- 8.4.9 The pollution incident to Controlled Waters identified 150 m east to the Solar PV Site occurred more than 10 years ago and is therefore not considered to be of concern.

## 8.5 Summary of Potential Sources

- 8.5.1 Table 8-2 indicates the potential contaminants that may be associated with the current land use.

**Table 8-2: Potential Sources of Contamination**

<b>Source Reference</b>	<b>Location</b>	<b>Potential Sources</b>	<b>Associated Contaminants of Potential Concern (CoPC)</b>
S1	On Site	Current and former farm buildings and yards where fuel and agricultural materials were/are stored. Made Ground (infilled ponds/infilled land).	Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline (pH), total petroleum hydrocarbon (TPH), polyaromatic hydrocarbons (PAH), semi-volatile organic compound (SVOCs), Volatile Organic Compound (VOCs), asbestos and asbestos containing materials

Source Reference	Location	Potential Sources	Associated Contaminants of Potential Concern (CoPC)
			(ACMs), pesticides and fertilisers. Ground gases (such as methane or carbon dioxide).
S2	Off Site, various locations.	Current and former farm buildings and yards where fuel and agricultural materials were/are stored. Current trucking company. Shooting range.	Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), TPH, SVOCs, VOCs, asbestos, ACMs, pesticides, and fertilisers.
S3	Off Site.	Former railway line	Metals, TPHs, PAHs, ACM, SVOCs, VOCs, sulphate. Glycols – associated with the potential use of antifreeze liquids on the rail tracks. Creosote (includes phenolic compounds) – associated with rail lines.

## 8.6 Potential Receptors

### On-Site Receptors

- 8.6.1 The principal human receptors within the Solar PV Site are considered to be: current site users, including farmers, site visitors and general public on the Solar PV Site using the public rights of way (PRoW); construction and maintenance workers; and future site users, including maintenance workers, and general public on the Solar PV Site using the PRoW, and these will remain following development.
- 8.6.2 The controlled water receptors include groundwater (Secondary A Aquifers of Brighton Sand Formation and Alluvium; and the Principal Aquifer of the bedrock Sherwood Sandstone Group). Surface water receptors include River Went and land drains.
- 8.6.3 Property receptors include existing buildings and future Solar PV Mounting Structures, cables and other associated infrastructure. Property receptors also include sheep grazing, identified within the Solar PV Site during the site reconnaissance.

8.6.4 There are no sensitive ecological receptors associated with the Solar PV Site.

### Off-Site Receptors

8.6.5 The principal human receptors off-site are considered to be neighbours in residential/commercial properties adjacent to the Solar PV Site.

8.6.6 Property receptors include farm buildings.

8.6.7 Bunfold Shaw Designated Ancient Woodland, which lies in the centre of the Solar PV Site, but excluded from the Solar PV Site Boundary, is a sensitive ecological receptor.

### Summary of Potential Receptors

8.6.8 Potential receptors associated with the Solar PV Site are shown on Table 8-3.

**Table 8-3: Potential Receptors**

Receptor Reference	Receptor	Description
R1	Human Health: Acute <sup>1</sup>	Construction and maintenance workers.
R2	Human Health	Current Site Users: farmers/site visitors/general public on the Solar PV Site using the PRow.
R3	Human Health	Future Site Users: farmers/site visitors/trespassers/general public on the Solar PV Site using the PRow.
R4	Human Health	Adjacent site users during earthworks: neighbours in residential/commercial properties adjacent to the Solar PV Site and general public in the areas adjacent the Solar PV Site.
R5	Water Environment: Aquifers	Secondary A Aquifers of superficial deposits (Brighton Sand Formation and Alluvium). Principal Aquifer of the bedrock (Sherwood Sandstone Group).
R6	Water Environment: Surface waters	River Went. Drains.
R7	Sensitive ecological receptors	Bunfold Shaw Designated Ancient Woodland.

<sup>1</sup> Refers to a considerable exposure to land contamination in a short period of time (for example during construction activities).

Receptor Reference	Receptor	Description
R8	Buildings and Infrastructure: Concrete	Future proposed infrastructures (Solar PV Mounting Structures).
R9	Buildings and Infrastructure: Structures	Proposed structures.
R10	Buildings and Infrastructure: Services	Potable water supply pipes, and other services.
R11	Property	Crops and sheep grazing.

## 8.7 Potential Pathways

### On-Site Pathways

- 8.7.1 The human health exposure pathways that are considered viable based on UK guidance (Environment Agency, Contaminated Land Exposure Model (CLEA UK)) (Ref. 33) are listed below:
- Direct contact, dermal absorption or ingestion of soil;
  - Ingestion of fruit and vegetables and/or waters;
  - Inhalation of soil particulates derived from soils; and
  - Migration of hazardous gases/vapours via permeable strata into confined spaces (asphyxiation/explosion).
- 8.7.2 The evaluation of exposure pathways for controlled waters receptors requires an understanding of geological and hydrogeological pathways beneath the Solar PV Site. The controlled waters pathways considered viable with respect to the Solar PV Site are as follows:
- Spillage/loss/run off from surface direct to receiving water;
  - Leaching of chemicals and vertical migration via permeable unsaturated strata to groundwater; and
  - Lateral migration in groundwater and baseflow into surface waters.
- 8.7.3 The ecosystem pathways (fauna and flora) considered viable with respect to the Solar PV Site are as follows:
- Fauna: direct contact, dermal absorption or ingestion of soil/ingestion of fruit and vegetables and/or waters/inhalation of soil particulates derived from soils; and
  - Flora: direct contact with contaminated soils/uptake via root system.
- 8.7.4 The property receptor (sheep grazing and crop) pathways considered viable with respect to the Solar PV Site are as follows:
- Direct contact, dermal absorption, or ingestion of soil/ingestion of fruit and vegetables and/or waters/inhalation of soil particulates derived from soils; and
  - uptake via root system.

- 8.7.5 The buildings and infrastructure pathways considered viable with respect to the Solar PV Site are as follows:
- a. Direct contact of buried concrete (Solar PV Mounting Structures and On-Site Cables) with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate); and
  - b. Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches.

### Summary of Potential Pathways

8.7.6 Potential pathways associated with the Solar PV Site are shown in Table 8-4.

**Table 8-4: Potential Pathways**

<b>Pathway Reference</b>	<b>Receptor</b>	<b>Description</b>
P1	Human Health/Property: People (Human Health) and animals (Property)	Direct Pathway: direct contact, dermal absorption or ingestion of soil.
P2	Human Health/Property: People (Human Health) and animals (Property)	Indirect Pathway: inhalation of soil particulates or vapour derived from soils.
P3	Human Health: People (Human Health)	Indirect Pathway: migration of hazardous gases/vapours via permeable strata into confined spaces (asphyxiation/explosion).
P4	Water Environment: Surface water	Direct Pathway: spillage/loss/run off from surface direct to receiving water.
P5	Water Environment: Groundwater	Indirect Pathway: leaching of chemicals and vertical migration via permeable unsaturated strata to groundwater.
P6	Water Environment: Surface water/Groundwater	Indirect Pathway: lateral migration in groundwater and baseflow into surface waters.
P7	Ecosystems: Flora and fauna  Property: Crops and sheep grazing	Indirect Pathway: uptake via root system and ingestion.
P8	Buildings and Infrastructure: Concrete	Direct Pathway: direct contact of buried concrete with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate).



<b>Pathway Reference</b>	<b>Receptor</b>	<b>Description</b>
P9	Buildings and Infrastructure: Supply pipes	Direct Pathway: direct contact of services and supply pipes with contaminated soils.
P10	Buildings and Infrastructure: Structures	Indirect Pathway: Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches.

## 9. Environmental Risk Assessment

### 9.1 Risk Assessment Principles

- 9.1.1 Current industry good practice recommends that the determination of hazards due to land contamination land is based on the principle of risk assessment, as outlined in the Environment Agency guidance LCRM (Ref. 1).
- 9.1.2 For a risk to be present, there must be a viable contaminant linkage (at the current site condition and/or during construction and/or when the Solar PV Site is complete and operational) i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.
- 9.1.3 Assessments of risks associated with each of these contaminant linkages are discussed in the following sections. The methodology adopted within this PRA does not intend to reflect the EIA Methodology, as described in Chapter 5: Methodology of the Scoping Report (**PEIR Volume III Appendix 1-1: EIA Scoping Report**).
- 9.1.4 Using criteria based on those presented in Annex 4 of the EA/NHBC/CIEH R&D Publication 66, 'Guidance for the Safe Development of Housing on Land Affected by Contamination' (Ref. 34), the magnitude of the risk associated with potential contamination at the Solar PV Site has been assessed. To do this an estimate is made of:
  - a. The magnitude of the potential consequence (i.e. severity); and
  - b. The magnitude of probability (i.e. likelihood).

### 9.2 Risk Assessment Framework

- 9.2.1 The severity of the risk is classified according to the criteria in Table 9-1.

**Table 9-1: Description of Severity of Risk**

<b>Term</b>	<b>Description</b>
Severe	<ul style="list-style-type: none"> <li>a. Highly elevated concentrations likely to result in significant harm to human health.</li> <li>b. Catastrophic damage to crops, buildings or property (e.g. by explosion).</li> <li>c. Equivalent to Environment Agency Category 1 pollution incident including persistent and/or extensive effects of water quality.</li> <li>d. Major damage to aquatic or other ecosystems.</li> </ul>
Medium	<ul style="list-style-type: none"> <li>a. Elevated concentrations which could result in significant harm to human health.</li> <li>b. Significant damage to crops, buildings or property (e.g. damage to building rendering it unsafe).</li> <li>c. Equivalent to Environment Agency Category 2 pollution incident including significant effect on water quality.</li> <li>d. Significant damage to aquatic or other ecosystems.</li> </ul>
Mild	<ul style="list-style-type: none"> <li>a. Exposure to human health unlikely to lead to significant harm.</li> </ul>

Term	Description
	b. Minor damage to crops, buildings or property (e.g. surface spalling to concrete). c. Equivalent to Environment Agency Category 3 pollution incident including minimal or short-lived effect on water quality. d. Minor or short-lived damage to aquatic or other ecosystems.
Minor	a. No measurable effect on humans. b. Repairable effects of damage to buildings, structures and services. c. Equivalent to insubstantial pollution Incident with no observed effect on water quality of ecosystems.

9.2.2 The probability of the risk occurring is classified according to the criteria in Table 9-2.

**Table 9-2: Likelihood of Risk Occurrence**

**Likelihood Explanation**

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

9.2.3 An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 9-3.

**Table 9-3: Risk Based on Comparison of Likelihood and Severity**

		Severity			
		SEVERE	MEDIUM	MILD	MINOR
Likelihood	HIGH	Very High	High	Moderate	Low
	LIKELY	High	Moderate	Moderate/Low	Low
	LOW	Moderate	Moderate/Low	Low	Very Low
	UNLIKELY	Moderate/Low	Low	Very Low	Very Low

### 9.3 Preliminary Risk Assessment

9.3.1 A CSM illustrating plausible contaminant linkages has been formulated for the Solar PV Site. The qualitative preliminary risk assessment of the possible linkages of the above sources (S1 to S3), transport pathways (P1 to P10) and receptors (R2 to R11) is provided in the Table 9-4.

- 9.3.2 The level of risk is determined based on the current condition of the Solar PV Site (i.e. the effects of mitigation measures are not included).
- 9.3.3 The preliminary risk assessment undertaken within this section does not consider acute linkages for construction and maintenance workers (R1). It is anticipated that these acute linkages will be managed by appropriate health and safety measures. As construction workers are protected under existing health and safety legislation, any potential effects are considered to be temporary and will be avoided, prevented and reduced through the implementation of standard mitigation measures to be incorporated into a Construction Environmental Management Plan (CEMP). Work will be undertaken in accordance with relevant Construction (Design and Management) (CDM) Regulations 2015 (Ref. 35).

## 9.4 Discussion of Acute Risk to Future Construction Workers and Off-Site Receptors

- 9.4.1 The proposed works will be undertaken in compliance with Construction (Design and Management) (CDM) Regulations 2015 (Ref. 35).
- 9.4.2 Prior to work commencing, a health and safety risk assessment should be undertaken by the appointed principal contractor and developed in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, permanent site staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction period. These mitigation measures, defined by IEMA (Ref. 36), are considered to be standard measures that form part of the general environmental management of the Solar PV Site, and will be integrated within the CEMP.
- 9.4.3 The greatest potential for generation of dust will be ground disturbance, handling and exposure during the construction phase. Dust generation should be kept to a minimum in accordance with general industry good practice, as outlined in, for example, 'Environmental Good Practice on Site Guide', CIRIA Publication C741 (Ref. 37).
- 9.4.4 The risk to construction workers during the construction phase 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 Solar PV Site. Should gross contamination be identified, this may pose a potential acute risk to construction works. It is likely that the risks to construction workers can be effectively managed through good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also mitigate the degree of potential particulate migration off-site; these will be included within the CEMP for the Solar PV Site.

**Table 9-4: Potential Sources, Pathways and Receptors for the Solar PV Site**

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<b>S1:</b> On-site, Current and former farm buildings and yards where fuel and agricultural materials were/are stored. Made Ground (infilled ponds/infilled land) <i>Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), TPH, PAH, SVOCs, VOCs, asbestos and ACMs, pesticides and fertilisers.</i> Ground gases (such as methane or carbon dioxide)	P1: Direct contact, dermal absorption or ingestion of soil.	R2: Current Site Users	Mild	Unlikely	Very Low	Localised contamination and Made Ground may be associated with current and former farm buildings and yards where fuel and agricultural materials were/are stored.
	P1: Direct contact, dermal absorption or ingestion of soil.	R3: Future Site Users	Mild	Unlikely	Very Low	Made Ground of unknown quality may be associated with infilling of the former ponds on the Solar PV Site. The volume of the infill is relatively small and unlikely to represent a significant widespread issue. Current users are farmers and the general public who might be exposed to soils. Future users include site visitors/trespassers/general public on the Solar PV Site using the PRow and who might be exposed to soils. Contaminant linkage may be present but the

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						circumstances under which harm would occur even in the long-term are improbable, given the current use of the Solar PV Site as agricultural fields and the proposed use of the Solar PV Site as a solar farm.
		R2: Current Site Users	Mild	Unlikely	Very Low	The presence of ACM within Made Ground cannot be discounted.
	P2: Inhalation of soil particulates, including ACM fibres	R3: Future Site Users	Mild	Unlikely	Very Low	However, limited potential for ground contamination has been identified at the Solar PV Site. Limited potential for inhalation of soil particulates exists at the Solar PV Site, given the age of the potentially infilled ponds and Made Ground. Therefore, risk of inhalation of soil particulates is considered to be very low. Contaminant linkage may be present but the

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						circumstances under which harm would occur even in the long-term are improbable.
	P3: Migration of hazardous gases/vapours via permeable strata into confined spaces (asphyxiation/explosion)	R2: Current Site Users	Mild	Unlikely	Very low	Ground gas accumulation and potential explosion risk is generally unlikely at the Solar PV Site, given that limited potential sources of hazardous gases/vapours have been identified. The only confined space currently present within the Solar PV Site is a farmer shed, located on Lawn Lane, to the east of Fenwick.  Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
		R3: Future Site Users	Medium	Unlikely	Low	<p>Ground gas accumulation and potential explosion risk is generally unlikely at the Solar PV Site, given that limited potential sources of hazardous gases/vapours have been identified. By virtue of the development comprising a solar farm, the linkage associated with accumulation could be limited to any service buildings/enclosures. The Solar PV Site will include Field Stations (see <b>PEIR Volume II Figure 2-3: Indicative Site Layout Plan</b>) in terms of structures.</p> <p>Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.</p>



Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	P5: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater	R5: Aquifers (Principal/Secondary A)	Medium	Unlikely	Low	<p>Complete pathways may be present but current information suggests a gross contaminant source is unlikely to be present.</p> <p>Leaching of chemicals and vertical migration via unsaturated strata to groundwater is also restricted by the presence of the low permeability Hemingbrough Glaciolacustrine Formation, which underlies most of the Solar PV Site.</p> <p>The risk of harm to groundwater from leaching of contaminants is considered low.</p>
	P6: Lateral migration in groundwater and baseflow into surface waters	R6: Surface waters	Mild	Low	Low	<p>Complete pathways may be present but current information suggests a gross contaminant source is unlikely.</p> <p>The risk of harm to surface waters from lateral migration in groundwater</p>

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						and baseflow into surface waters is very low.
	P7: Uptake via root system and ingestion	R7: Ecological Receptors <hr/> R11: Property (crops and sheep grazing)	Minor	Unlikely	Very Low	Complete pathways may be present but current information suggests a gross source is unlikely. Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.
	P8: Direct contact of buried concrete with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate).	R8: Buildings and Infrastructure: Concrete (Solar PV Mounting Structure)	Minor	Unlikely	Very Low	Complete pathways may be present but current information suggests a gross contaminant source is unlikely. Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable. Potential risk from direct contact with contaminated soils for buried concrete

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						and infrastructure (Solar PV Mounting Structure) is considered very low.
	P9: Direct contact of services and supply pipes with contaminated soils.	R10: Buildings and Infrastructure: Services (potable water supply pipes and other services)	Minor	Unlikely	Very Low	Complete pathways may be present for water supply pipes at properties located off-site from on-site sources, but current information suggests a gross contaminant source is unlikely. Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.
	P10: Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches	R9: Buildings and Infrastructure: Structures	Mild	Unlikely	Very Low	Ground gas accumulation and potential explosion risk is generally unlikely at the Solar PV Site, given that limited potential sources of hazardous gases/vapours have been identified. Contaminant linkage may be present but the circumstances under which

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						harm would occur even in the long-term are improbable.
<p><b>S2:</b> Off-site current and former farm buildings and yards where fuel and agricultural materials were/are stored.</p> <p>Current trucking company.</p> <p>Current shooting range.</p> <p><i>Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), TPH, SVOCs, VOCs, asbestos, ACMs, pesticides and fertilisers.</i></p>	<p>P5: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater</p> <hr/> <p>P6: Lateral migration in groundwater and baseflow into surface waters</p>	<p>R5: Aquifers (Principal/Secondary A)</p> <hr/> <p>R6: Surface waters</p>	<p>Medium</p> <hr/> <p>Minor</p>	<p>Unlikely</p> <hr/> <p>Unlikely</p>	<p>Low</p> <hr/> <p>Very Low</p>	<p>Complete pathways may be present but current information suggests that this is unlikely.</p> <p>The risk of harm to groundwater from leaching of contaminants and migration to the Solar PV Site is considered low.</p> <p>The risk of harm to surface water from lateral migration in groundwater and baseflow into surface waters is considered to be very low.</p>

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<p><b>S3:</b> Off-site current and former railway lines  <i>Metals, TPHs, PAHs, ACM, SVOCs, VOCs, sulphate.</i>  <i>Glycols – associated with the potential use of antifreeze liquids on the rail tracks.</i>  <i>Creosote (includes phenolic compounds) – associated with rail lines.</i></p>	<p>P5: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater</p>	<p>R5: Aquifers (Principal/Secondary A)</p>	<p>Medium</p>	<p>Unlikely</p>	<p>Low</p>	<p>Leaching of chemicals and vertical migration via unsaturated strata to shallow groundwater is restricted by the presence of the low permeability Hemingbrough Glaciolacustrine Formation, which underlies the Solar PV Site at the locations of the current and former railway lines.</p> <p>Complete pathways may be present but current information suggests this is unlikely. The risk of harm to groundwater from leaching of contaminants and migration to the Solar PV Site is considered low.</p>
	<p>P6: Lateral migration in groundwater and baseflow into surface waters</p>	<p>R6: Surface waters</p>	<p>Mild</p>	<p>Low</p>	<p>Low</p>	<p>The risk of harm to surface water from lateral migration in groundwater and baseflow into surface waters is considered very low.</p>

## 10. Decommissioning

- 10.1.1 Potential impacts from the decommissioning of the Solar PV Site are similar in nature to those during construction, as some ground works would be required to remove infrastructure installed. A detailed Decommissioning Environmental Management Plan (DEMP) will be prepared to identify required measures to prevent pollution during this phase of the development, based on the detailed decommissioning plan.
- 10.1.2 As a result, it is considered the decommissioning impacts and effects would mirror those of the construction phase. Standard mitigation measures are expected to be applied during decommissioning.

## 11. Conclusions

- 11.1.1 The potential risks that have been identified from potential land contamination have been assessed by the PRA as being very low to low.
- 11.1.2 A number of environmental design and management measures will be employed as standard good practice to minimise impacts to both human health and controlled waters during the construction and decommissioning phases of the Solar PV Site. These will be incorporated into the Framework CEMP which will be provided alongside the Environmental Statement (ES) as part of the DCO application.
- 11.1.3 The information collected as part of this PRA suggests that there are no significant constraints with regards to contamination of soil and groundwater that would limit the development of the Solar PV Site.

## 12. Recommendations

- 12.1.1 Limited intrusive ground investigation and Generic Quantitative Risk Assessment (GQRA) is recommended in the selected areas of potential contamination. Figure 3 shows the location of the areas of potential contamination relevant for the Solar PV Site. Where features are off-site, the investigation locations will be within the Solar PV Site but adjacent or around the feature.
- 12.1.2 Areas recommended to be included within the ground investigation related to the Solar PV Site are:
- a. Near current and former farm buildings (within the Solar PV Site);
  - b. Near former railway lines (off-site, adjacent the eastern Site Boundary in West Lane) (but not railway land itself);
  - c. Near the current trucking company (adjacent to the southern Site Boundary, on West Lane); and
  - d. Near the current shooting range (adjacent to the southern Site Boundary, on London Lane).
- 12.1.3 The results of the ground investigation can be used to refine the findings of this PRA, allow for any recommendations for further works, and allow for considering options for appropriate re-use (following CL:AIRE DoW:CoP (Ref. 38)), or treatment and disposal of any material to an appropriate facility, prior to construction. The investigation could also be combined with the geotechnical assessment to be more efficient and cost effective.
- 12.1.4 Consideration should be given to the procurement of a Preliminary UXO Assessment as the possibility of UXO on the Solar PV Site cannot be entirely dismissed. The Preliminary UXO Report will provide recommendations for any appropriate additional mitigation measures.
- 12.1.5 The Solar PV Site is within the Nottinghamshire Coal Mining Reporting Area (Ref. 20). It is recommended that a coal mining report from the Coal Authority is commissioned to further assess coal mining issues at the Solar PV Site. There are no DHRAs within the Solar PV Site (Ref. 19). In additions, the Carboniferous Rocks are overlain by significant thicknesses of Sherwood Sandstone Group, overlying mudstone and limestone formations.
- 12.1.6 Ground stability issues have been identified at the Solar PV Site which may need further assessment. The Groundsure Report indicates that compressibility and uneven settlement hazards are probably present. The developer should seek appropriate technical and environmental expert advice to assess the likely consequences of the Solar PV Site where ground compression is suspected (Ref. 39).
- 12.1.7 AECOM geophysical survey identified a buried line which was not shown on the current utility plans, across the southwestern part of the Solar PV Site. It is understood that this service was likely a disused water pipe. Any intrusive works planned should be aware of the presence of this service.



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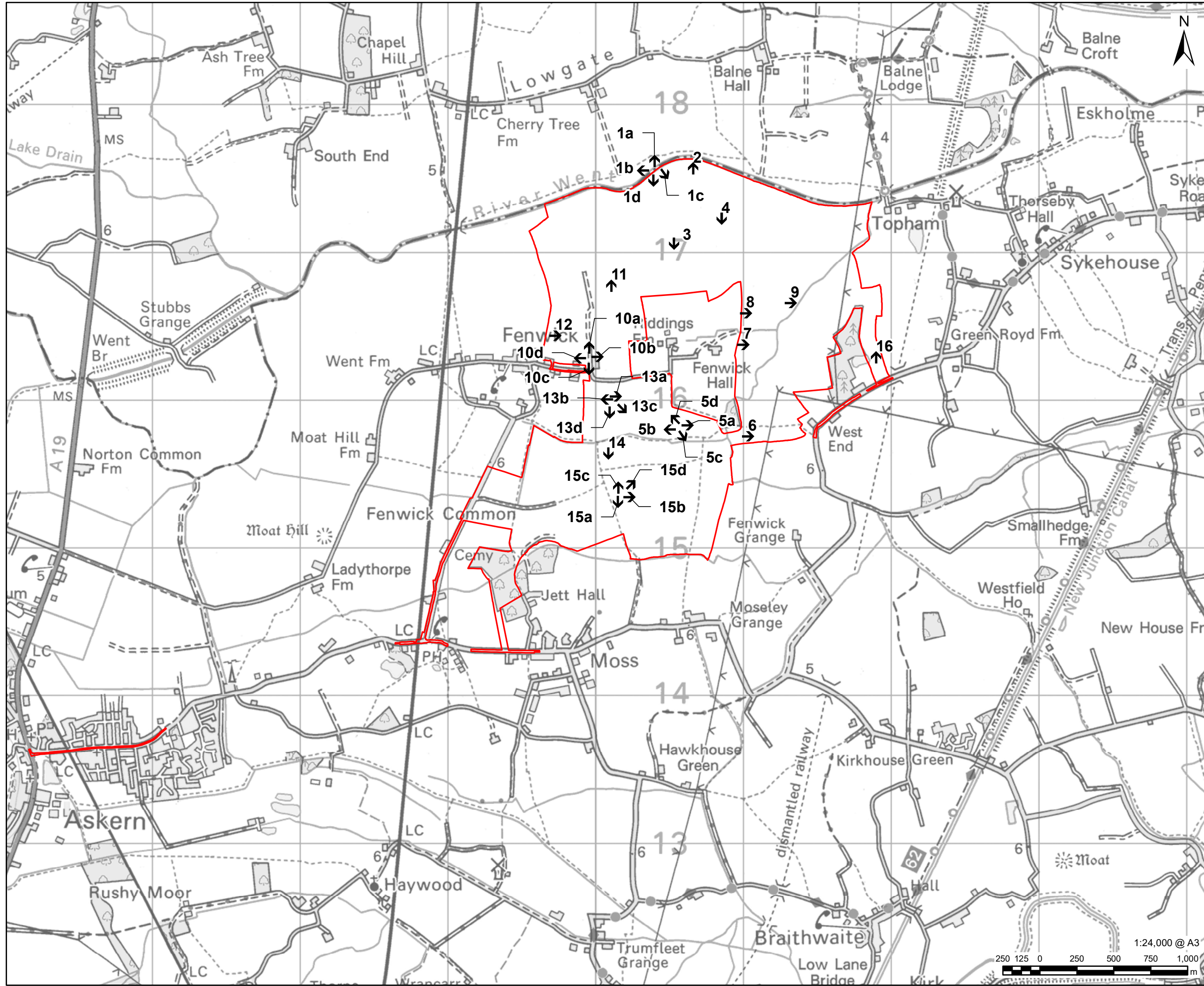
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# Figures



**PROJECT**  
Fenwick Solar Farm

**CLIENT**  
Fenwick Solar Project Limited

**CONSULTANT**  
AECOM Limited  
Midpoint,  
Alencon Link  
Basingstoke, RG21 7PP  
www.aecom.com

**LEGEND**

- Solar PV Site
- ↑ Site Walkover Photograph Location

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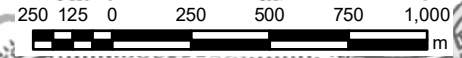
**ISSUE PURPOSE**  
Phase 1 PRA - Solar PV Site

**PROJECT NUMBER**  
60698207

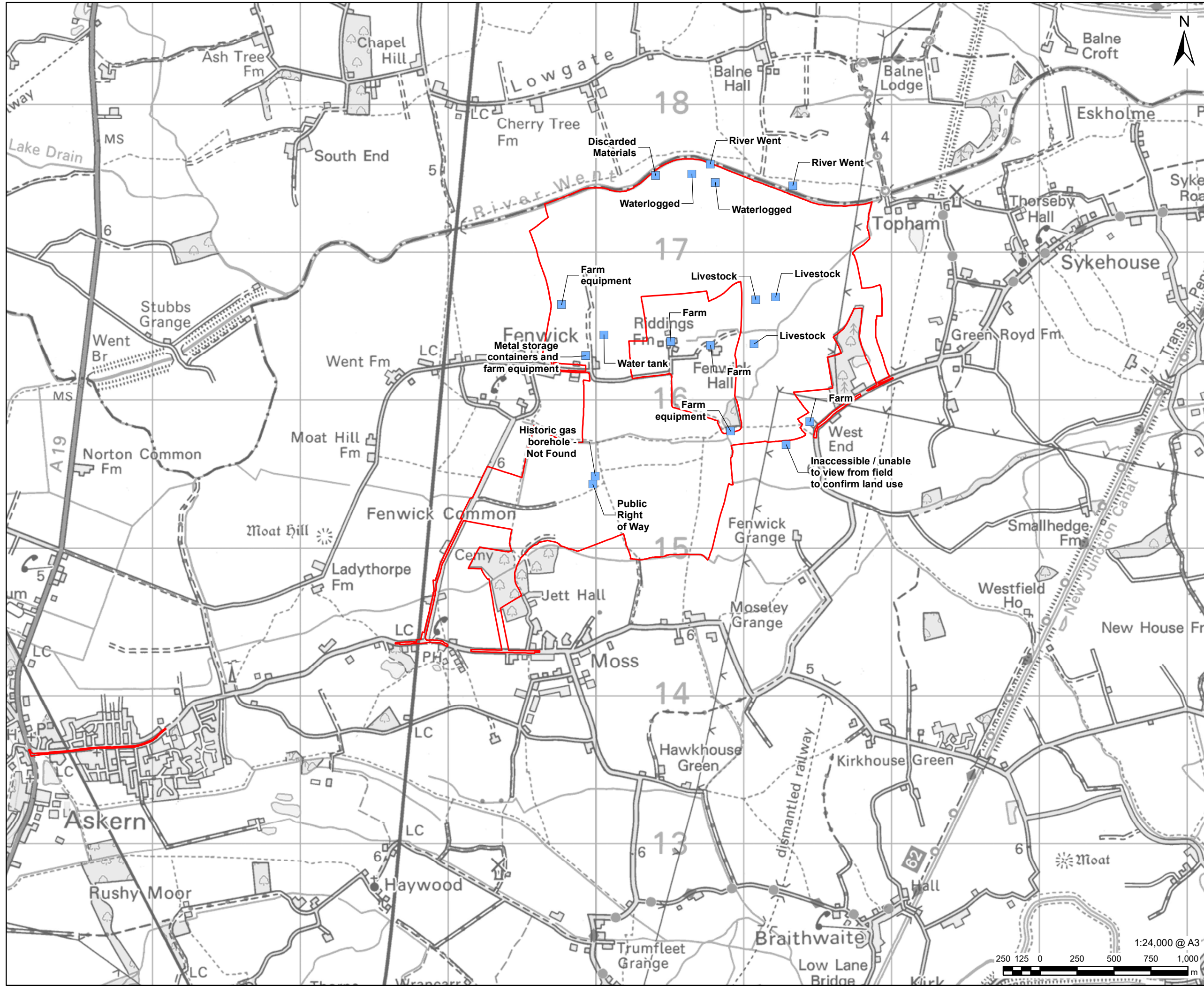
**FIGURE TITLE**  
Solar PV Site - Site Walkover Photographs

**FIGURE NUMBER**  
Figure 1

1:24,000 @ A3



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**LEGEND**  
 Solar PV Site  
■ Site Walkover Observation

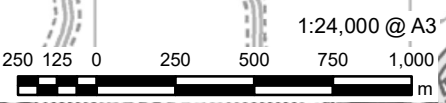
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**ISSUE PURPOSE**  
Phase 1 PRA - Solar PV Site

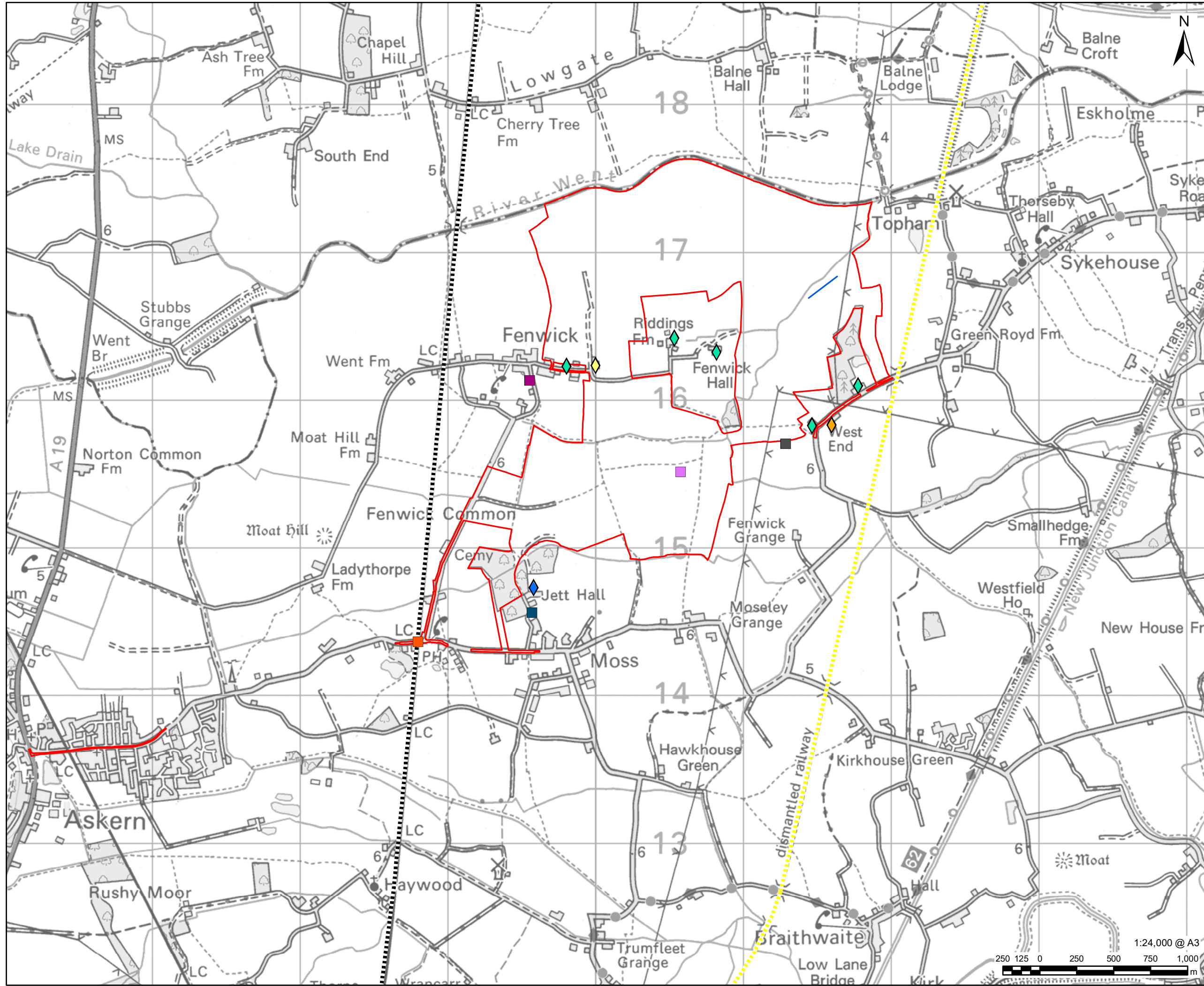
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60698207

**FIGURE TITLE**  
Solar PV Site - Site Walkover Observations

**FIGURE NUMBER**  
Figure 2



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Fenwick Solar Farm

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**CONSULTANT**  
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www.aecom.com

**LEGEND**

- Solar PV Site
- Potentially Contaminative Source**
- ◆ Current Agricultural
- ◆ Current Farm
- ◆ Current Shooting Range
- ◆ Current Trucking Company
- Former Farm
- Former Smithy
- Former Train Station
- Unspecified Tanks
- Unspecified Structure
- Current Railway Line
- Embankment
- Former Railway Line

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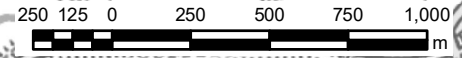
**ISSUE PURPOSE**  
Phase 1 PRA - Solar PV Site

**PROJECT NUMBER**  
60698207

**FIGURE TITLE**  
Solar PV Site - Potentially Contaminated Sources

**FIGURE NUMBER**  
Figure 3

1:24,000 @ A3



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# Annex A Selected Groundsure Report Extracts

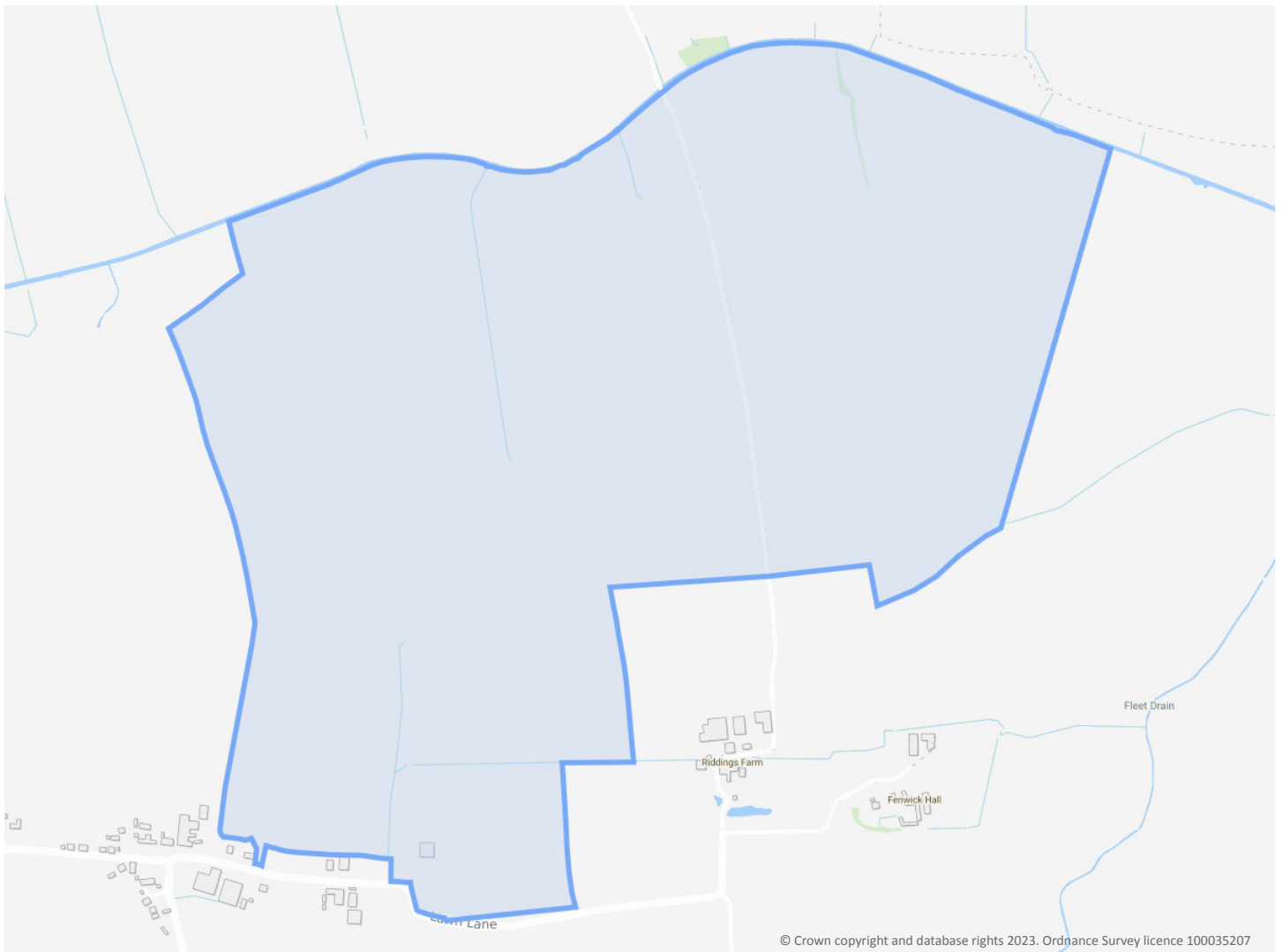
## Fenwick Solar

### Order Details

**Date:** 31/07/2023  
**Your ref:** Fenwick Solar  
**Our Ref:** GSIP-2023-13870-14752\_B

### Site Details

**Location:** 460167 416940  
**Area:** 143.74 ha  
**Authority:** [Doncaster Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

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

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	4	3	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">17 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	5	3	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">21 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	9	27	137	19	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">38 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	0	0	1	-	-
39	4.2	Current or recent petrol stations	0	0	0	0	-
39	4.3	Electricity cables	0	0	0	0	-
39	4.4	Gas pipelines	0	0	0	0	-
39	4.5	Sites determined as Contaminated Land	0	0	0	0	-



39	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.7	Regulated explosive sites	0	0	0	0	-
40	4.8	Hazardous substance storage/usage	0	0	0	0	-
40	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
40	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
40	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>41 &gt;</b>	<b>4.13 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	0	0	<b>2</b>	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
42	4.15	Pollutant release to public sewer	0	0	0	0	-
42	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
42	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
43	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<b><u>Hydrogeology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>44 &gt;</b>	<b>5.1 &gt;</b>	<b><u>Superficial aquifer &gt;</u></b>	Identified (within 500m)				
<b>46 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>48 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
51	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
51	5.5	Groundwater vulnerability- local information	None (within 0m)				
52	5.6	Groundwater abstractions	0	0	0	0	0
<b>53 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	3	1	4	0	11
57	5.8	Potable abstractions	0	0	0	0	0
<b>57 &gt;</b>	<b>5.9 &gt;</b>	<b><u>Source Protection Zones &gt;</u></b>	1	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b><u>Hydrology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>58 &gt;</b>	<b>6.1 &gt;</b>	<b><u>Water Network (OS MasterMap) &gt;</u></b>	7	18	13	-	-



<a href="#">62</a> >	<a href="#">6.2</a> >	<a href="#">Surface water features</a> >	1	8	13	-	-
<a href="#">62</a> >	<a href="#">6.3</a> >	<a href="#">WFD Surface water body catchments</a> >	1	-	-	-	-
<a href="#">62</a> >	<a href="#">6.4</a> >	<a href="#">WFD Surface water bodies</a> >	1	0	0	-	-
<a href="#">63</a> >	<a href="#">6.5</a> >	<a href="#">WFD Groundwater bodies</a> >	1	-	-	-	-
Page	Section	<a href="#">River and coastal flooding</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">64</a> >	<a href="#">7.1</a> >	<a href="#">Risk of flooding from rivers and the sea</a> >	High (within 50m)				
<a href="#">65</a> >	<a href="#">7.2</a> >	<a href="#">Historical Flood Events</a> >	14	10	5	-	-
<a href="#">67</a> >	<a href="#">7.3</a> >	<a href="#">Flood Defences</a> >	0	1	0	-	-
<a href="#">67</a> >	<a href="#">7.4</a> >	<a href="#">Areas Benefiting from Flood Defences</a> >	1	0	2	-	-
68	7.5	Flood Storage Areas	0	0	0	-	-
<a href="#">69</a> >	<a href="#">7.6</a> >	<a href="#">Flood Zone 2</a> >	Identified (within 50m)				
<a href="#">70</a> >	<a href="#">7.7</a> >	<a href="#">Flood Zone 3</a> >	Identified (within 50m)				
Page	Section	<a href="#">Surface water flooding</a> >					
<a href="#">71</a> >	<a href="#">8.1</a> >	<a href="#">Surface water flooding</a> >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	<a href="#">Groundwater flooding</a> >					
<a href="#">73</a> >	<a href="#">9.1</a> >	<a href="#">Groundwater flooding</a> >	High (within 50m)				
Page	Section	<a href="#">Environmental designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
74	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
75	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
75	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
75	10.4	Special Protection Areas (SPA)	0	0	0	0	0
75	10.5	National Nature Reserves (NNR)	0	0	0	0	0
76	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<a href="#">76</a> >	<a href="#">10.7</a> >	<a href="#">Designated Ancient Woodland</a> >	0	0	0	0	3
76	10.8	Biosphere Reserves	0	0	0	0	0
77	10.9	Forest Parks	0	0	0	0	0
77	10.10	Marine Conservation Zones	0	0	0	0	0
<a href="#">77</a> >	<a href="#">10.11</a> >	<a href="#">Green Belt</a> >	0	1	0	0	1
77	10.12	Proposed Ramsar sites	0	0	0	0	0



78	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
78	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
<a href="#">78</a> >	<a href="#">10.15</a> >	<a href="#">Nitrate Sensitive Areas</a> >	0	0	0	0	2
<a href="#">79</a> >	<a href="#">10.16</a> >	<a href="#">Nitrate Vulnerable Zones</a> >	1	0	1	0	1
<a href="#">80</a> >	<a href="#">10.17</a> >	<a href="#">SSSI Impact Risk Zones</a> >	3	-	-	-	-
81	10.18	SSSI Units	0	0	0	0	0
Page	Section	<a href="#">Visual and cultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
82	11.1	World Heritage Sites	0	0	0	-	-
83	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
83	11.3	National Parks	0	0	0	-	-
<a href="#">83</a> >	<a href="#">11.4</a> >	<a href="#">Listed Buildings</a> >	0	0	3	-	-
84	11.5	Conservation Areas	0	0	0	-	-
84	11.6	Scheduled Ancient Monuments	0	0	0	-	-
84	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<a href="#">Agricultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">85</a> >	<a href="#">12.1</a> >	<a href="#">Agricultural Land Classification</a> >	Grade 2 (within 250m)				
86	12.2	Open Access Land	0	0	0	-	-
86	12.3	Tree Felling Licences	0	0	0	-	-
<a href="#">87</a> >	<a href="#">12.4</a> >	<a href="#">Environmental Stewardship Schemes</a> >	0	0	1	-	-
<a href="#">87</a> >	<a href="#">12.5</a> >	<a href="#">Countryside Stewardship Schemes</a> >	1	3	2	-	-
Page	Section	<a href="#">Habitat designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">88</a> >	<a href="#">13.1</a> >	<a href="#">Priority Habitat Inventory</a> >	3	1	0	-	-
89	13.2	Habitat Networks	0	0	0	-	-
89	13.3	Open Mosaic Habitat	0	0	0	-	-
89	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<a href="#">Geology 1:10,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">90</a> >	<a href="#">14.1</a> >	<a href="#">10k Availability</a> >	Identified (within 500m)				
91	14.2	Artificial and made ground (10k)	0	0	0	0	-
<a href="#">92</a> >	<a href="#">14.3</a> >	<a href="#">Superficial geology (10k)</a> >	6	2	0	0	-

93	14.4	Landslip (10k)	0	0	0	0	-
<a href="#">94</a> >	<a href="#">14.5</a> >	<a href="#">Bedrock geology (10k)</a> >	2	0	0	0	-
95	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<a href="#">Geology 1:50,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">96</a> >	<a href="#">15.1</a> >	<a href="#">50k Availability</a> >	Identified (within 500m)				
97	15.2	Artificial and made ground (50k)	0	0	0	0	-
97	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<a href="#">98</a> >	<a href="#">15.4</a> >	<a href="#">Superficial geology (50k)</a> >	4	1	0	0	-
<a href="#">99</a> >	<a href="#">15.5</a> >	<a href="#">Superficial permeability (50k)</a> >	Identified (within 50m)				
99	15.6	Landslip (50k)	0	0	0	0	-
100	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">101</a> >	<a href="#">15.8</a> >	<a href="#">Bedrock geology (50k)</a> >	1	0	0	0	-
<a href="#">102</a> >	<a href="#">15.9</a> >	<a href="#">Bedrock permeability (50k)</a> >	Identified (within 50m)				
102	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<a href="#">Boreholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">103</a> >	<a href="#">16.1</a> >	<a href="#">BGS Boreholes</a> >	1	1	1	-	-
Page	Section	<a href="#">Natural ground subsidence</a> >					
<a href="#">105</a> >	<a href="#">17.1</a> >	<a href="#">Shrink swell clays</a> >	Low (within 50m)				
<a href="#">107</a> >	<a href="#">17.2</a> >	<a href="#">Running sands</a> >	Low (within 50m)				
<a href="#">109</a> >	<a href="#">17.3</a> >	<a href="#">Compressible deposits</a> >	Moderate (within 50m)				
<a href="#">111</a> >	<a href="#">17.4</a> >	<a href="#">Collapsible deposits</a> >	Very low (within 50m)				
<a href="#">113</a> >	<a href="#">17.5</a> >	<a href="#">Landslides</a> >	Very low (within 50m)				
<a href="#">114</a> >	<a href="#">17.6</a> >	<a href="#">Ground dissolution of soluble rocks</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings</a> >	On site	0-50m	50-250m	250-500m	500-2000m
116	18.1	BritPits	0	0	0	0	-
<a href="#">117</a> >	<a href="#">18.2</a> >	<a href="#">Surface ground workings</a> >	0	0	7	-	-
117	18.3	Underground workings	0	0	0	0	0
117	18.4	Underground mining extents	0	0	0	0	-
118	18.5	Historical Mineral Planning Areas	0	0	0	0	-



118	18.6	Non-coal mining	0	0	0	0	0
118	18.7	JPB mining areas	None (within 0m)				
118	18.8	The Coal Authority non-coal mining	0	0	0	0	-
119	18.9	Researched mining	0	0	0	0	-
119	18.10	Mining record office plans	0	0	0	0	-
119	18.11	BGS mine plans	0	0	0	0	-
<b>119 &gt;</b>	<b>18.12 &gt;</b>	<b>Coal mining &gt;</b>	Identified (within 0m)				
120	18.13	Brine areas	None (within 0m)				
120	18.14	Gypsum areas	None (within 0m)				
120	18.15	Tin mining	None (within 0m)				
120	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
121	19.1	Natural cavities	0	0	0	0	-
121	19.2	Mining cavities	0	0	0	0	0
121	19.3	Reported recent incidents	0	0	0	0	-
121	19.4	Historical incidents	0	0	0	0	-
122	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<b>123 &gt;</b>	<b>20.1 &gt;</b>	<b>Radon &gt;</b>	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<b>125 &gt;</b>	<b>21.1 &gt;</b>	<b>BGS Estimated Background Soil Chemistry &gt;</b>	39	8	-	-	-
127	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
127	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
128	22.1	Underground railways (London)	0	0	0	-	-
128	22.2	Underground railways (Non-London)	0	0	0	-	-
128	22.3	Railway tunnels	0	0	0	-	-
128	22.4	Historical railway and tunnel features	0	0	0	-	-
128	22.5	Royal Mail tunnels	0	0	0	-	-



129	22.6	Historical railways	0	0	0	-	-
129	22.7	Railways	0	0	0	-	-
129	22.8	Crossrail 1	0	0	0	0	-
129	22.9	Crossrail 2	0	0	0	0	-
129	22.10	HS2	0	0	0	0	-

## Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 143.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2020 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved

Capture Date: 25/06/2020

Site Area: 143.74ha



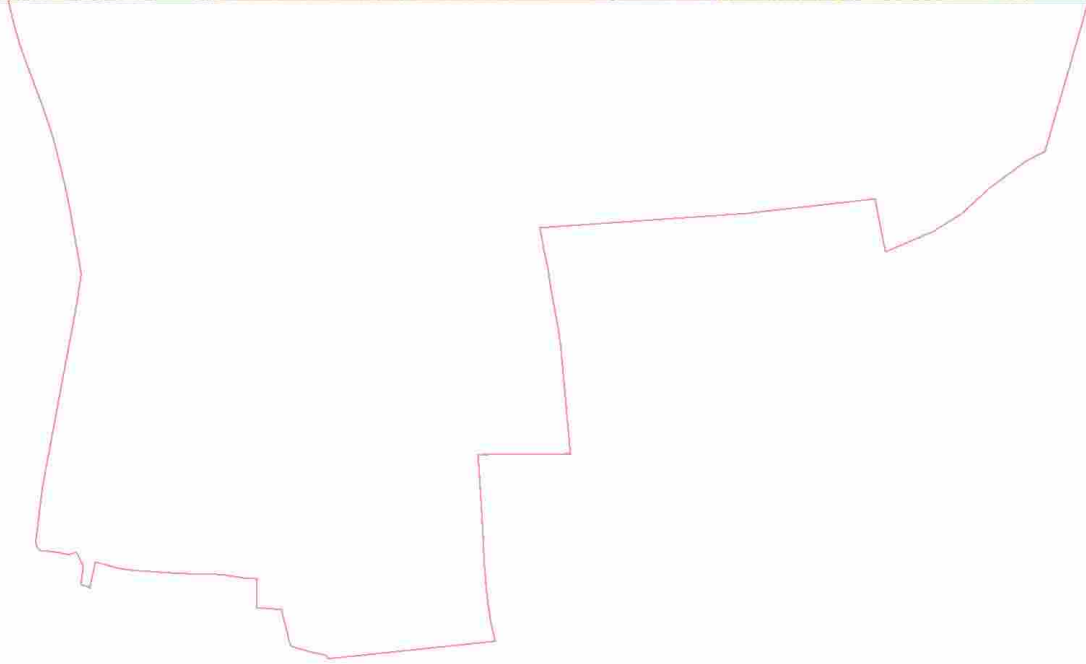
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2014 aerial photograph



Capture Date: 27/09/2014

Site Area: 143.74ha

## Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 143.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 1999 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved

Capture Date: 03/05/1999

Site Area: 143.74ha



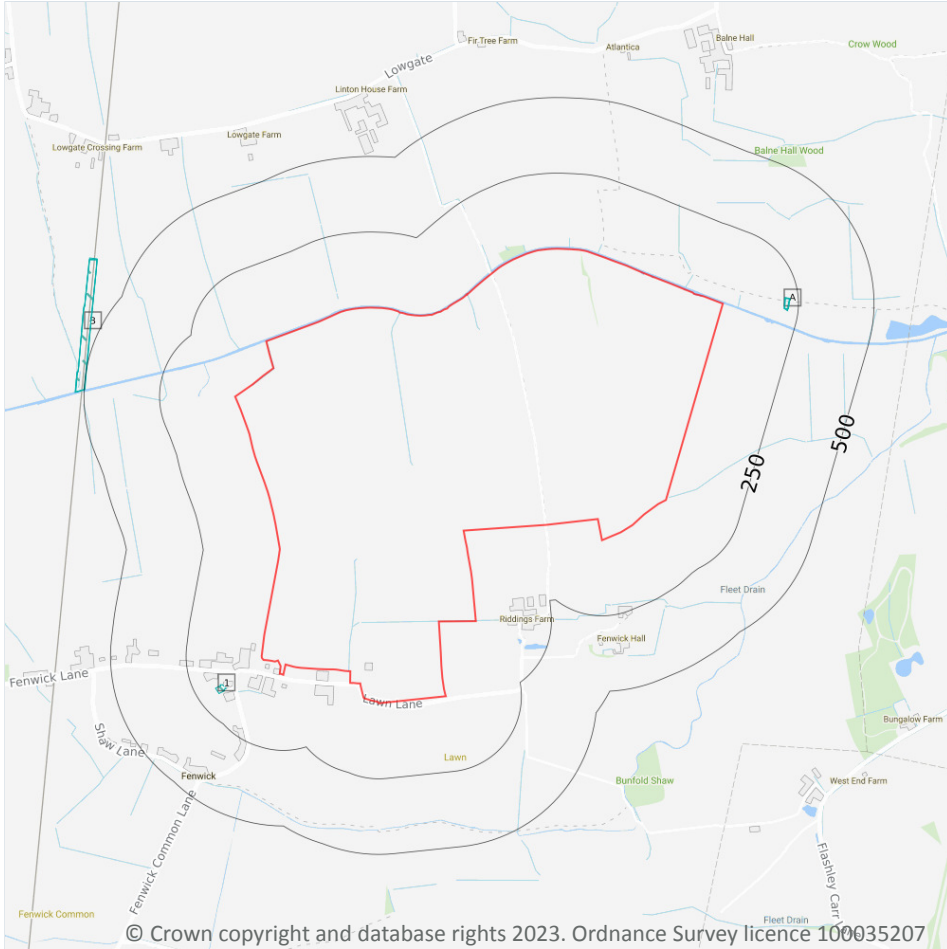
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755


Date: 31 July 2023

# 1 Past land use



**— Site Outline**

**Search buffers in metres (m)**

 **Historical industrial land uses**

## 1.1 Historical industrial land uses

**Records within 500m**

**7**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	155m SW	Smithy	1904	1457369

ID	Location	Land use	Dates present	Group ID
A	203m NE	Unspecified Pit	1951	1509066
A	204m NE	Unspecified Pit	1948	1528954
A	205m NE	Unspecified Pit	1907	1540462
B	497m W	Cuttings	1951	1482325
B	498m W	Cuttings	1907	1465208
B	499m W	Cuttings	1948	1517813

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

## 1.2 Historical tanks

**Records within 500m**

**0**

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'.

*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**

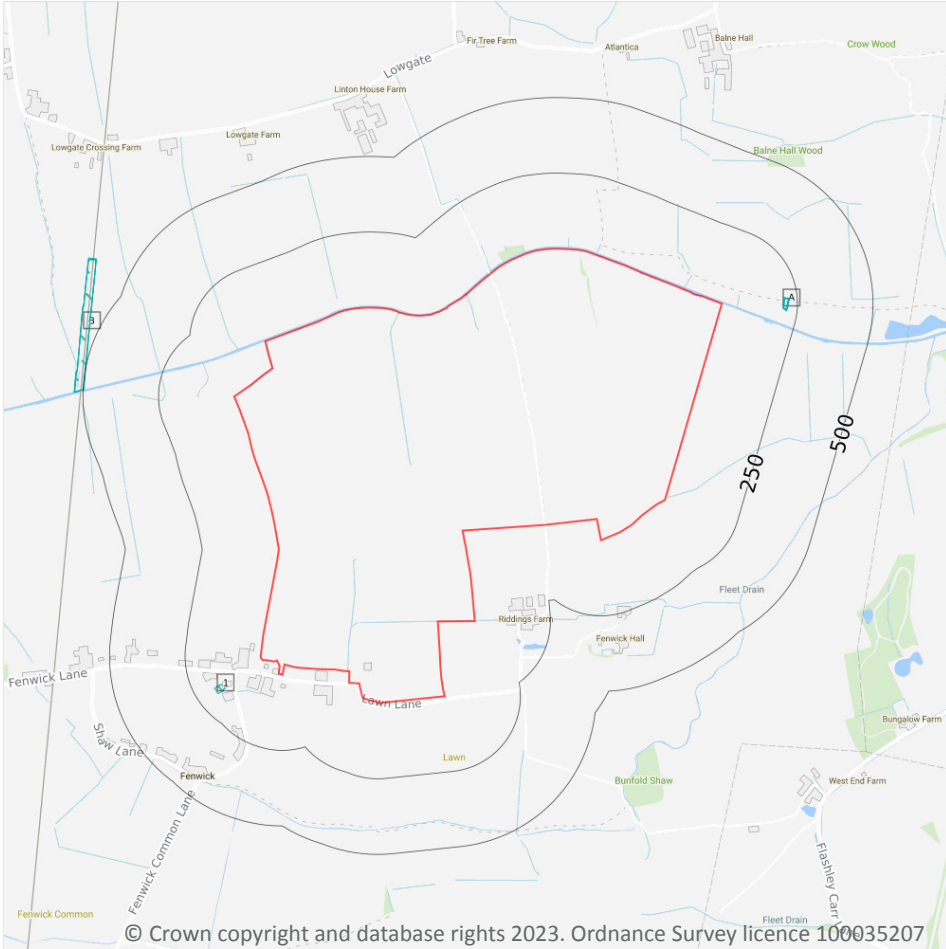
**0**

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

### 2.1 Historical industrial land uses

Records within 500m

8

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 17](#) >

ID	Location	Land Use	Date	Group ID
1	155m SW	Smithy	1904	1457369
A	203m NE	Unspecified Pit	1951	1509066
A	204m NE	Unspecified Pit	1948	1528954

ID	Location	Land Use	Date	Group ID
A	205m NE	Unspecified Pit	1907	1540462
A	205m NE	Unspecified Pit	1907	1540462
B	497m W	Cuttings	1951	1482325
B	498m W	Cuttings	1907	1465208
B	499m W	Cuttings	1948	1517813

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

## 2.2 Historical tanks

**Records within 500m**

**0**

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'.

*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

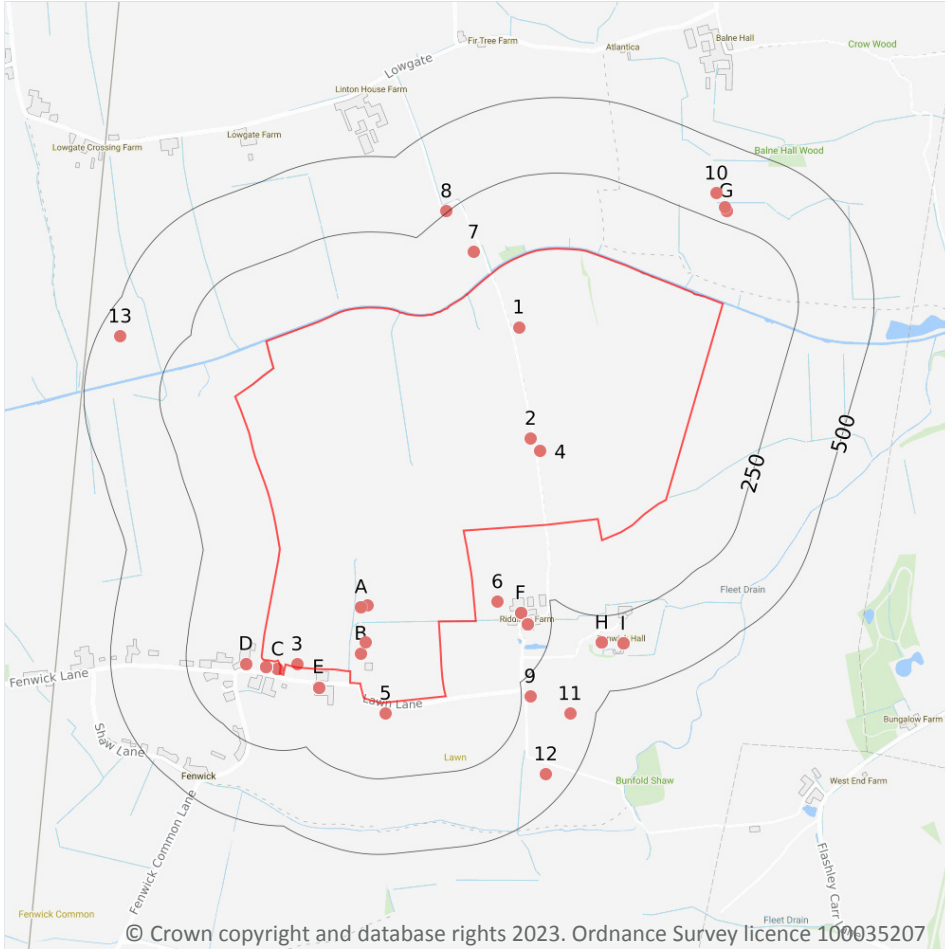
0

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

192

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX354367	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	-	WEX290461	Storing waste exemption	On a farm	Storage of sludge
3	On site	-	WEX290804	Storing waste exemption	On a farm	Storage of sludge
4	On site	-	WEX253122	Storing waste exemption	On a farm	Storage of sludge
A	On site	CAMPSMOUNT HOME FARM, CAMPSALL, DONCASTER, DN6 9AP	WEX151768	Storing waste exemption	On a Farm	Storage of sludge
A	On site	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/GF0402E M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	On site	-	WEX295244	Storing waste exemption	On a Farm	Storage of sludge
B	On site	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/SF0001EX /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
B	On site	-	WEX284143	Storing waste exemption	On a Farm	Storage of sludge
C	9m SW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
C	9m SW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
C	9m SW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Disposal by incineration



ID	Location	Site	Reference	Category	Sub-Category	Description
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Burning waste in the open
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of waste in secure containers
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of waste in a secure place
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of sludge
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Screening and blending of waste
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste in construction
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of mulch





ID	Location	Site	Reference	Category	Sub-Category	Description
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Incorporation of ash into soil
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste for a specified purpose
C	23m SW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste to manufacture finished goods
5	37m S	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/GF0502EX /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	58m SW	CROFT FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX339045	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	58m SW	CROFT FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX339045	Disposing of waste exemption	On a farm	Burning waste in the open
E	61m SW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
E	61m SW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	61m SW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
E	61m SW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of mulch
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of waste in construction
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of waste for a specified purpose
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Incorporation of ash into soil
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Pig and poultry ash
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Treating waste exemption	On a Farm	Recovery of scrap metal
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice



ID	Location	Site	Reference	Category	Sub-Category	Description
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Burning waste in the open
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Burning waste in the open
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Treating waste exemption	On a farm	Recovery of scrap metal
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of waste in construction
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of mulch
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Incorporation of ash into soil
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Pig and poultry ash
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance



ID	Location	Site	Reference	Category	Sub-Category	Description
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of waste for a specified purpose
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Burning waste in the open
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Treating waste exemption	On a farm	Recovery of scrap metal
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Pig and poultry ash
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Incorporation of ash into soil
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of mulch
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of waste for a specified purpose
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance



ID	Location	Site	Reference	Category	Sub-Category	Description
E	63m SW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of waste in construction
6	76m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0979U V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
7	92m N	-	WEX355063	Storing waste exemption	On a farm	Storage of sludge
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Disposal by incineration
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in secure containers
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Cleaning, washing, spraying or coating relevant waste



ID	Location	Site	Reference	Category	Sub-Category	Description
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste in a biobed or biofilter
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Screening and blending of waste
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil



ID	Location	Site	Reference	Category	Sub-Category	Description
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of baled end-of-life tyres in construction
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste derived biodiesel as fuel
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste to manufacture finished goods
F	149m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste in construction
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of baled end-of-life tyres in construction
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Incorporation of ash into soil
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Screening and blending of waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of sheep dip for disposal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste in a biobed or biofilter
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Disposal by incineration
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Burning waste in the open
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in secure containers
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in a secure place
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of sludge
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste derived biodiesel as fuel





ID	Location	Site	Reference	Category	Sub-Category	Description
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste for a specified purpose
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste to manufacture finished goods
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of mulch
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Pig and poultry ash
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of depolluted end-of-life vehicles for vehicle parts
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Recovery of scrap metal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Sorting mixed waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste food
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas



ID	Location	Site	Reference	Category	Sub-Category	Description
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Depositing samples of waste for the purposes of testing or analysing them
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Depositing samples of waste for the purposes of testing or analysing them
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste food
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Sorting mixed waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Recovery of scrap metal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of depolluted end-of-life vehicles for vehicle parts
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Pig and poultry ash



ID	Location	Site	Reference	Category	Sub-Category	Description
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of mulch
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste to manufacture finished goods
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste for a specified purpose
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of sludge
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in a secure place
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in secure containers
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Burning waste in the open
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Disposal by incineration
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice



ID	Location	Site	Reference	Category	Sub-Category	Description
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Screening and blending of waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Incorporation of ash into soil
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste in construction
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Manual treatment of waste
F	170m S	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
8	254m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX137848	Storing waste exemption	On a farm	Storage of sludge
9	278m S	-	WEX290469	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
G	291m NE	-	WEX289040	Storing waste exemption	On a farm	Storage of sludge
G	291m NE	-	WEX252384	Storing waste exemption	On a farm	Storage of sludge
G	300m NE	LEATHAM LODGE, BALNE, GOOLE, DN14 0EA	WEX137917	Storing waste exemption	On a farm	Storage of sludge
10	332m NE	-	WEX218366	Storing waste exemption	On a Farm	Storage of sludge
H	340m SE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
H	340m SE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
H	340m SE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
H	340m SE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX177839	Disposing of waste exemption	On a farm	Burning waste in the open
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Burning waste in the open
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste in construction

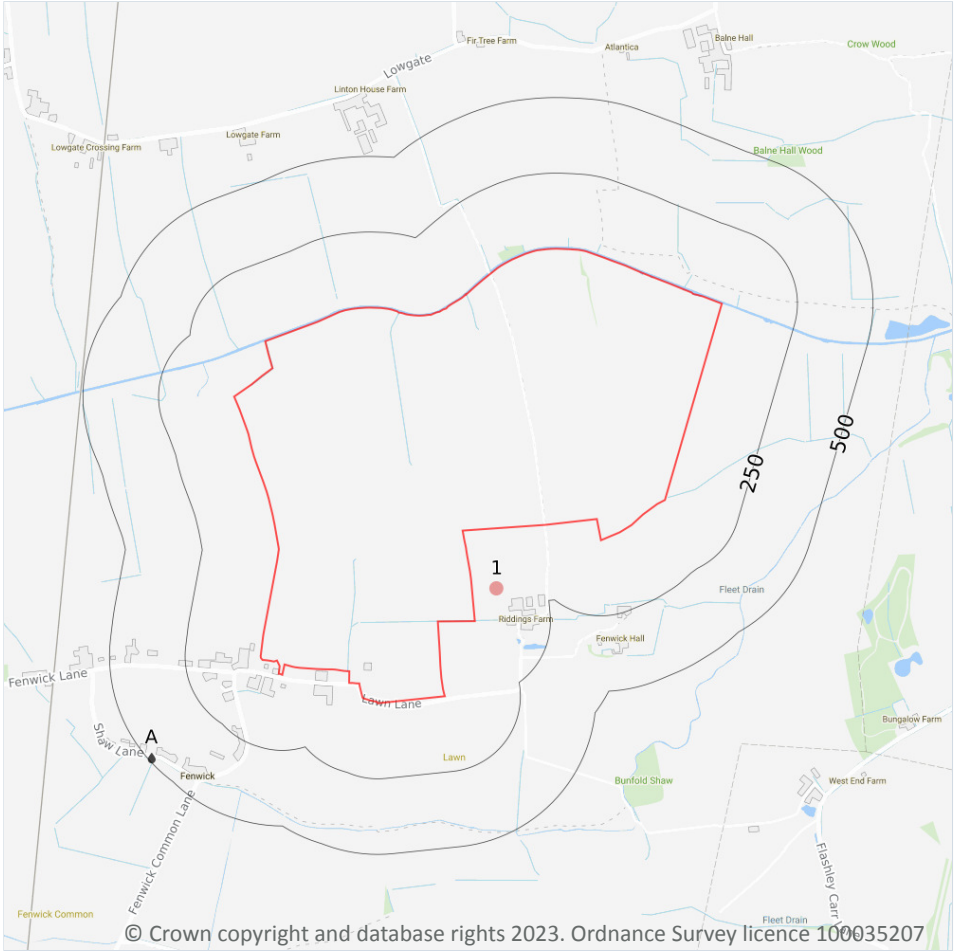


ID	Location	Site	Reference	Category	Sub-Category	Description
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste for a specified purpose
I	350m SE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX308807	Disposing of waste exemption	On a farm	Burning waste in the open
11	415m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0579U K/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
12	420m S	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0879U N/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
13	429m W	-	WEX249664	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** **1**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 38](#) >

ID	Location	Company	Address	Activity	Category
1	82m S	Wind Turbine	South Yorkshire, DN6	Energy Production	Industrial Features

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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

2

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 38](#) >

ID	Location	Address	Details	
A	489m SW	PROSPECT LODGE, SHAW LANE, FENWICK, DONCASTER, YORKSHIRE, DN6 0HD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRZB3492VD Permit Version: 1 Receiving Water: TRIB OF FENWICK COMMON DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 20/09/2022 Effective Date: 20/09/2022 Revocation Date: -
A	489m SW	PROSPECT HOUSE, SHAW LANE, FENWICK, DONCASTER, YORKSHIRE, DN6 0HD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRXB3298RJ Permit Version: 1 Receiving Water: TRIB OF FENWICK COMMON DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 20/09/2022 Effective Date: 20/09/2022 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

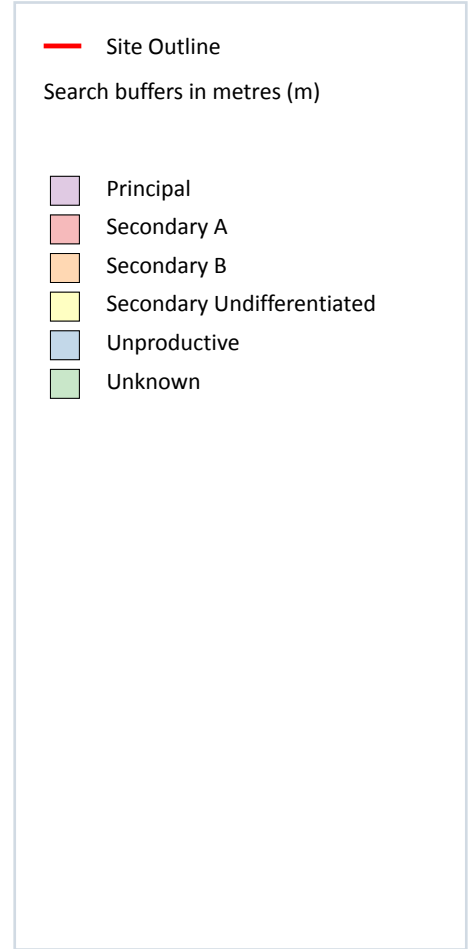
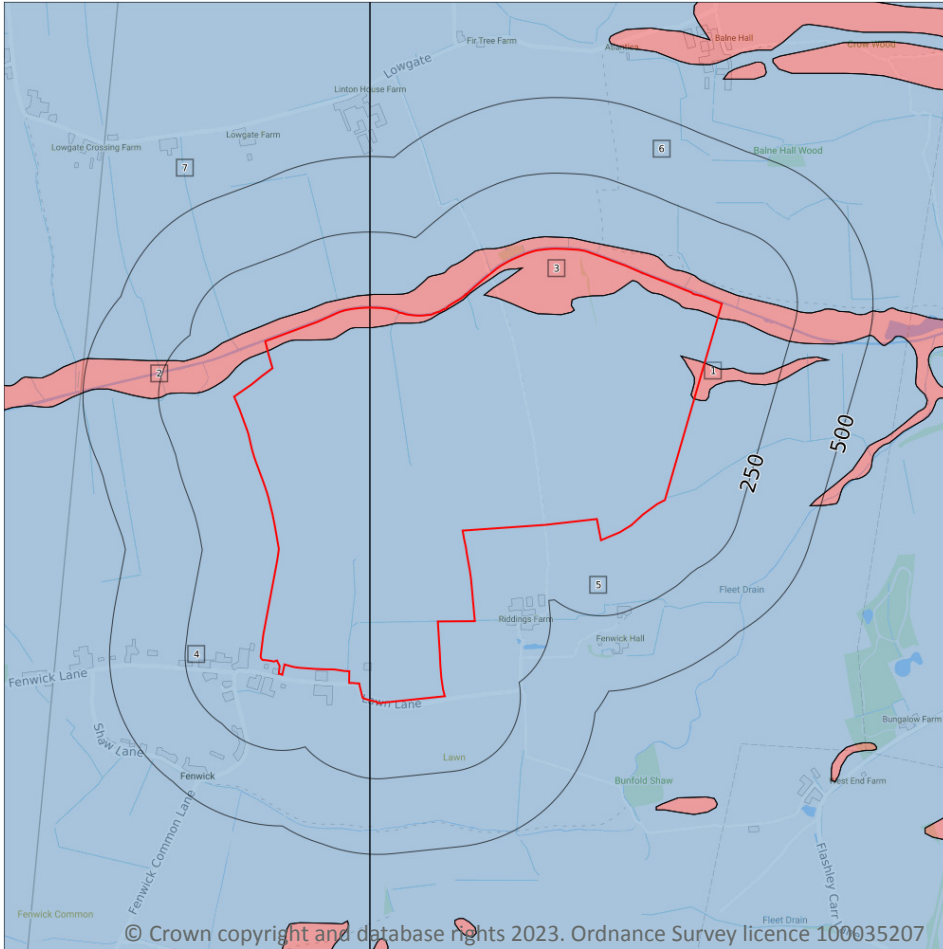
0

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 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

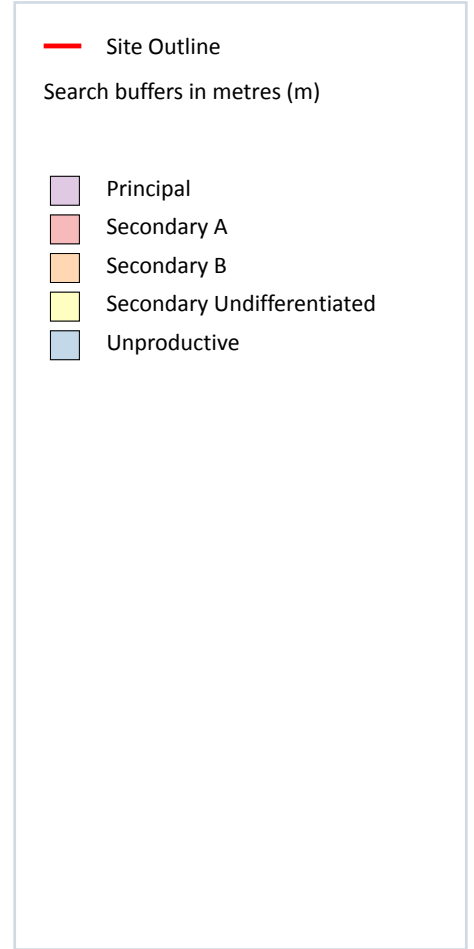
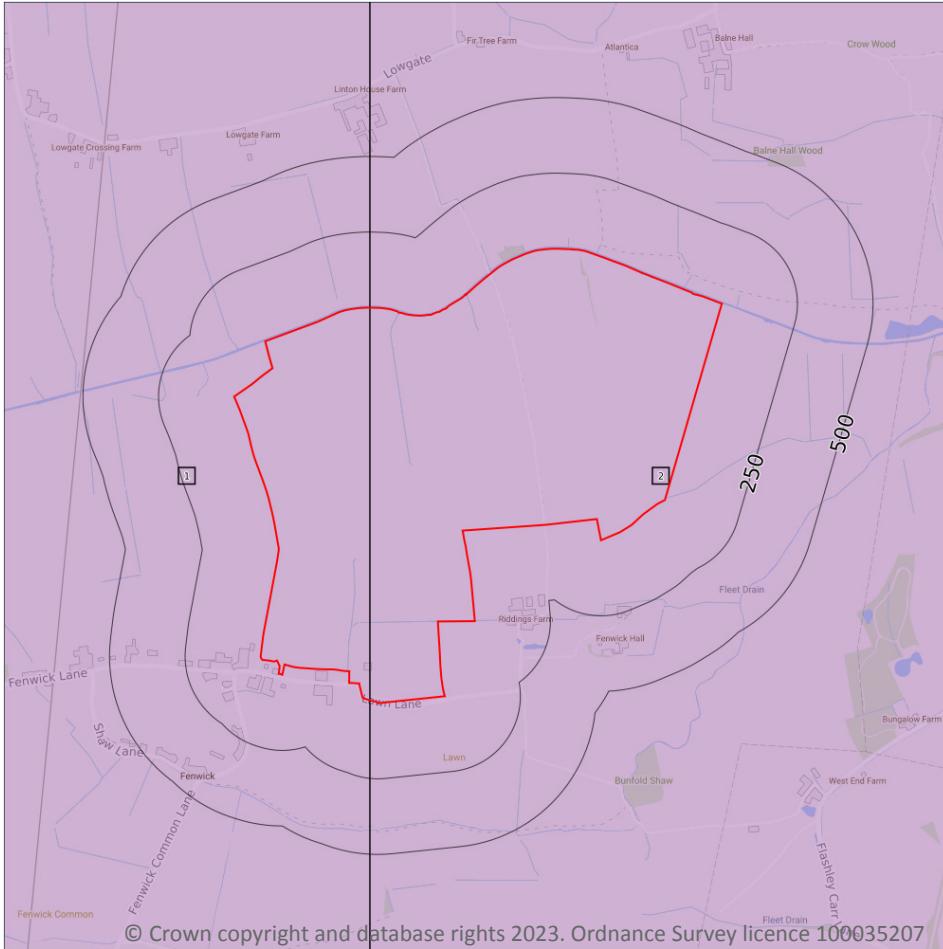
Features are displayed on the Hydrogeology map on [page 44](#) >

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	<b>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</b>
4	On site	Unproductive	<b>These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow</b>
5	On site	Unproductive	<b>These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow</b>
6	33m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	38m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

## Bedrock aquifer



### 5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 46](#) >

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.*



Contact us with any questions at:

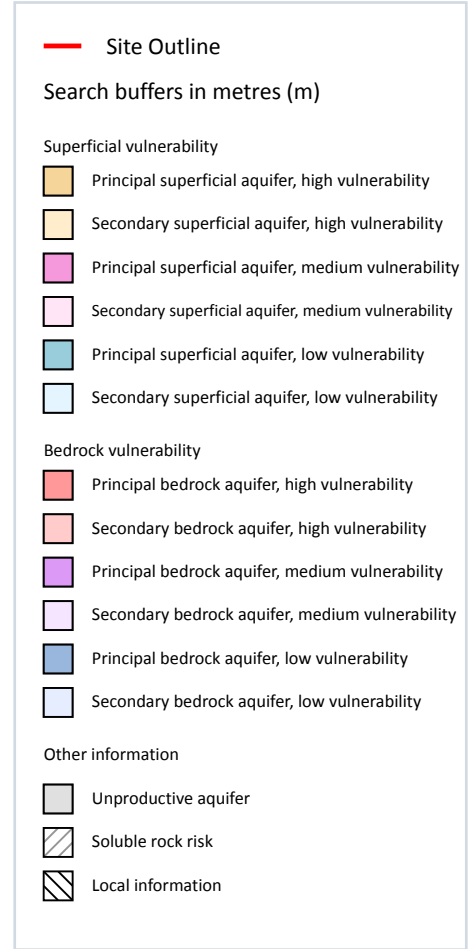
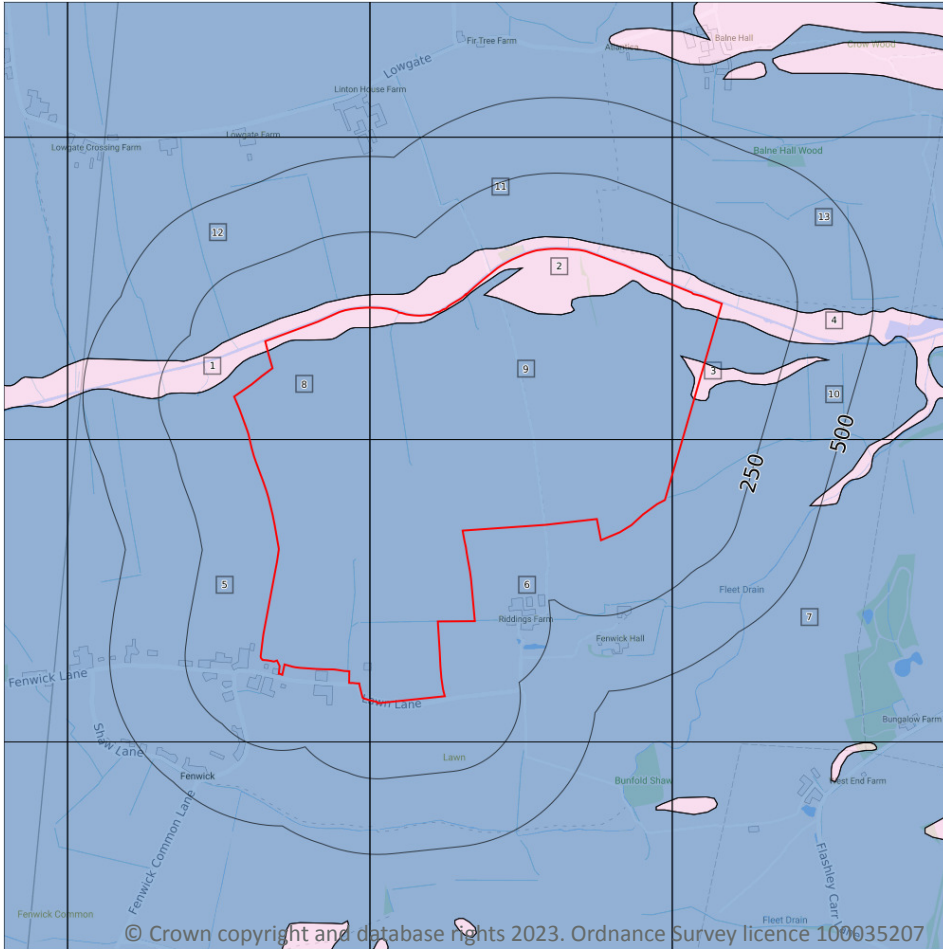
[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

13

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 48](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Medium Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
2	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Medium Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
3	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Medium Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
4	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Medium Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
5	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
6	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
7	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
9	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
10	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
11	32m NE	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
12	38m NW	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
13	43m NE	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed

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



## 5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

## 5.5 Groundwater vulnerability- local information

Records on site

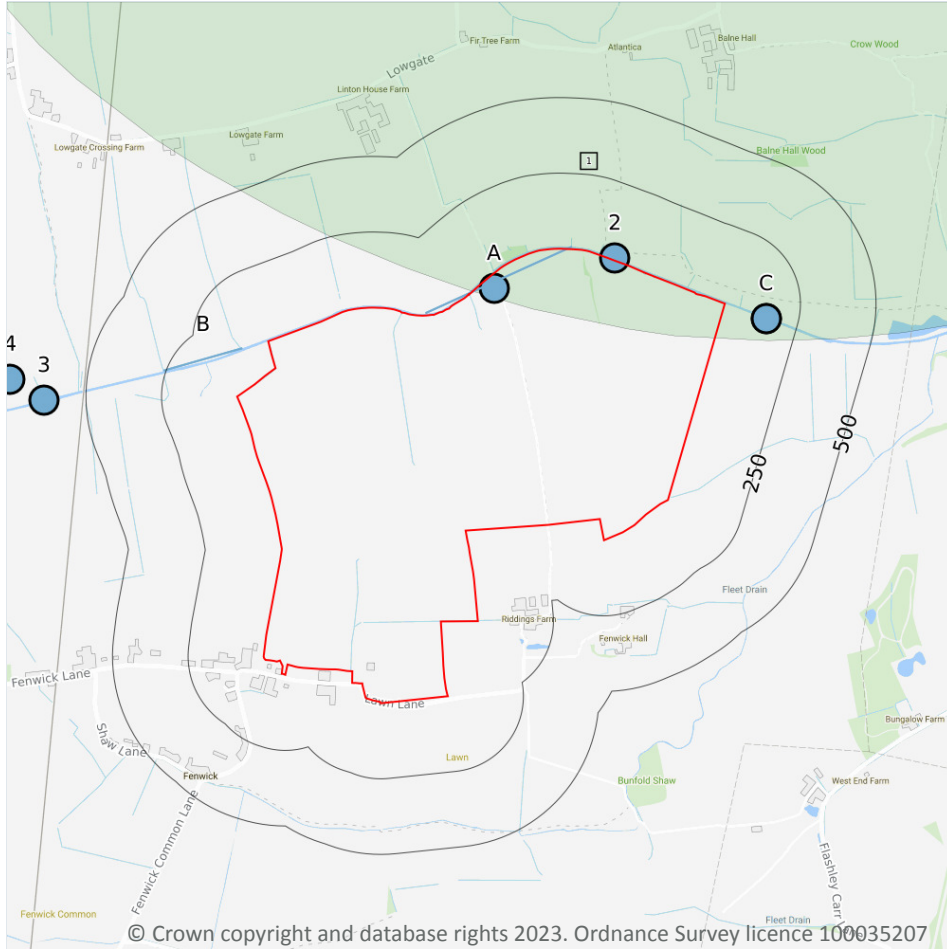
0

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

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



## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

0

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.

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

## 5.7 Surface water abstractions

### Records within 2000m

19

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 52 >](#)

ID	Location	Details	
A	On site	<b>Status: Historical</b> <b>Licence No: 2/27/09/163</b> <b>Details: Spray Irrigation - Direct</b> <b>Direct Source: SURFACE WATER</b> <b>Point: RIVER WENT</b> <b>Data Type: Point</b> <b>Name: W M FALKINGHAM (BALNE) LTD</b> <b>Easting: 460400</b> <b>Northing: 417500</b>	<b>Annual Volume (m<sup>3</sup>): 13638</b> <b>Max Daily Volume (m<sup>3</sup>): 731</b> <b>Original Application No: -</b> <b>Original Start Date: 27/03/1997</b> <b>Expiry Date: 30/09/2006</b> <b>Issue No: 100</b> <b>Version Start Date: 27/03/1997</b> <b>Version End Date: -</b>
A	On site	<b>Status: Active</b> <b>Licence No: NE/027/0009/032</b> <b>Details: Spray Irrigation - Direct</b> <b>Direct Source: SURFACE WATER</b> <b>Point: RIVER WENT POINT E - FENWICK</b> <b>Data Type: Line</b> <b>Name: C &amp; R Clark</b> <b>Easting: 460174</b> <b>Northing: 417418</b>	<b>Annual Volume (m<sup>3</sup>): 48000</b> <b>Max Daily Volume (m<sup>3</sup>): 900</b> <b>Original Application No: NPS/WR/030912</b> <b>Original Start Date: 25/06/2019</b> <b>Expiry Date: 31/03/2029</b> <b>Issue No: 1</b> <b>Version Start Date: 25/06/2019</b> <b>Version End Date: -</b>
A	On site	<b>Status: Active</b> <b>Licence No: NE/027/0009/032</b> <b>Details: Spray Irrigation - Direct</b> <b>Direct Source: SURFACE WATER</b> <b>Point: RIVER WENT POINT F - FENWICK</b> <b>Data Type: Line</b> <b>Name: C &amp; R Clark</b> <b>Easting: 460658</b> <b>Northing: 417638</b>	<b>Annual Volume (m<sup>3</sup>): 48000</b> <b>Max Daily Volume (m<sup>3</sup>): 900</b> <b>Original Application No: NPS/WR/030912</b> <b>Original Start Date: 25/06/2019</b> <b>Expiry Date: 31/03/2029</b> <b>Issue No: 1</b> <b>Version Start Date: 25/06/2019</b> <b>Version End Date: -</b>
2	7m NE	<b>Status: Historical</b> <b>Licence No: 2/27/09/173</b> <b>Details: Spray Irrigation - Direct</b> <b>Direct Source: SURFACE WATER</b> <b>Point: RIVER WENT</b> <b>Data Type: Point</b> <b>Name: C G BAYSTON &amp; SON</b> <b>Easting: 460800</b> <b>Northing: 417600</b>	<b>Annual Volume (m<sup>3</sup>): -</b> <b>Max Daily Volume (m<sup>3</sup>): -</b> <b>Original Application No: -</b> <b>Original Start Date: 24/03/1998</b> <b>Expiry Date: 30/12/2006</b> <b>Issue No: 100</b> <b>Version Start Date: 24/03/1998</b> <b>Version End Date: -</b>



ID	Location	Details	
B	88m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT C - FENWICK Data Type: Line Name: C & R Clark Easting: 459308 Northing: 417228	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
B	88m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT D - FENWICK Data Type: Line Name: C & R Clark Easting: 459568 Northing: 417302	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
C	144m NE	Status: Historical Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: - Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
C	144m NE	Status: Active Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT - BALNE Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: 5378 Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
3	639m W	Status: Active Licence No: 2/27/09/203/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT - BALNE - GOOLE Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 458912 Northing: 417130	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 Original Application No: NPS/WR/017376 Original Start Date: 01/04/2015 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -



ID	Location	Details	
4	753m W	Status: Historical Licence No: 2/27/09/166 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 458800 Northing: 417200	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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: -
-	868m W	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT B - FENWICK Data Type: Line Name: C & R Clark Easting: 458685 Northing: 417074	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	868m W	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT A - FENWICK Data Type: Line Name: C & R Clark Easting: 457771 Northing: 416707	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1655m E	Status: Historical Licence No: 2/27/09/203 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462780 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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: -
-	1663m E	Status: Historical Licence No: 2/27/09/203 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462788 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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	
-	1663m E	Status: Active Licence No: 2/27/09/203/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462788 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 Original Application No: NPS/WR/017376 Original Start Date: 01/04/2015 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1833m W	Status: Active Licence No: NE/027/0009/013 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT OLD COURSE Data Type: Line Name: FRIENDSHIP ESTATES LTD Easting: 457150 Northing: 415520	Annual Volume (m <sup>3</sup> ): 7273 Max Daily Volume (m <sup>3</sup> ): 218 Original Application No: NPS/WR/009980 Original Start Date: 29/05/2012 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 29/05/2012 Version End Date: -
-	1856m NE	Status: Historical Licence No: 2/27/18/132 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: AIRE AND CALDER NAVIGATION - EGGBOROUGH GOOLE Data Type: Line Name: Canal and River Trust Easting: 451892 Northing: 423495	Annual Volume (m <sup>3</sup> ): 25000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: - Original Start Date: 01/05/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 05/07/2012 Version End Date: -
-	1856m NE	Status: Active Licence No: 2/27/18/132/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: AIRE AND CALDER NAVIGATION - EGGBOROUGH GOOLE Data Type: Line Name: Canal and River Trust Easting: 451892 Northing: 423495	Annual Volume (m <sup>3</sup> ): 25000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: NPS/WR/018157 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1947m NE	Status: Historical Licence No: 2/27/09/163 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 463000 Northing: 418100	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 731 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: -



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

## 5.8 Potable abstractions

**Records within 2000m**

**0**

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

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

## 5.9 Source Protection Zones

**Records within 500m**

**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 52 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment

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

## 5.10 Source Protection Zones (confined aquifer)

**Records within 500m**

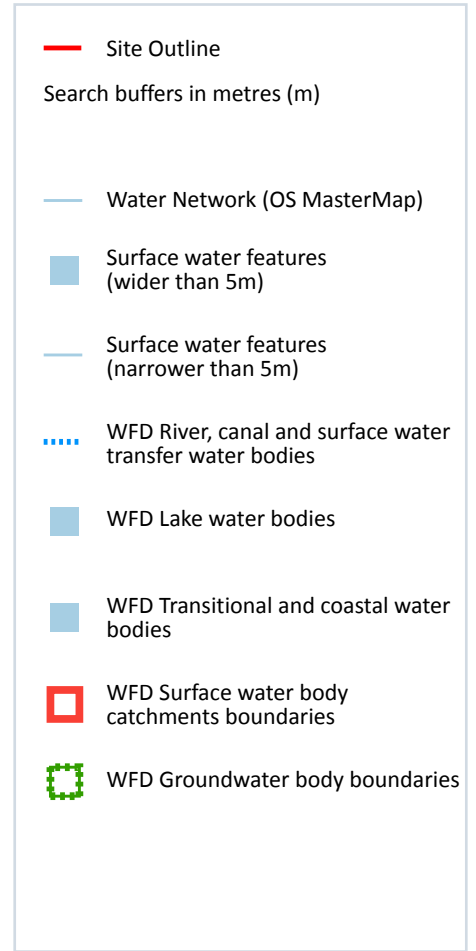
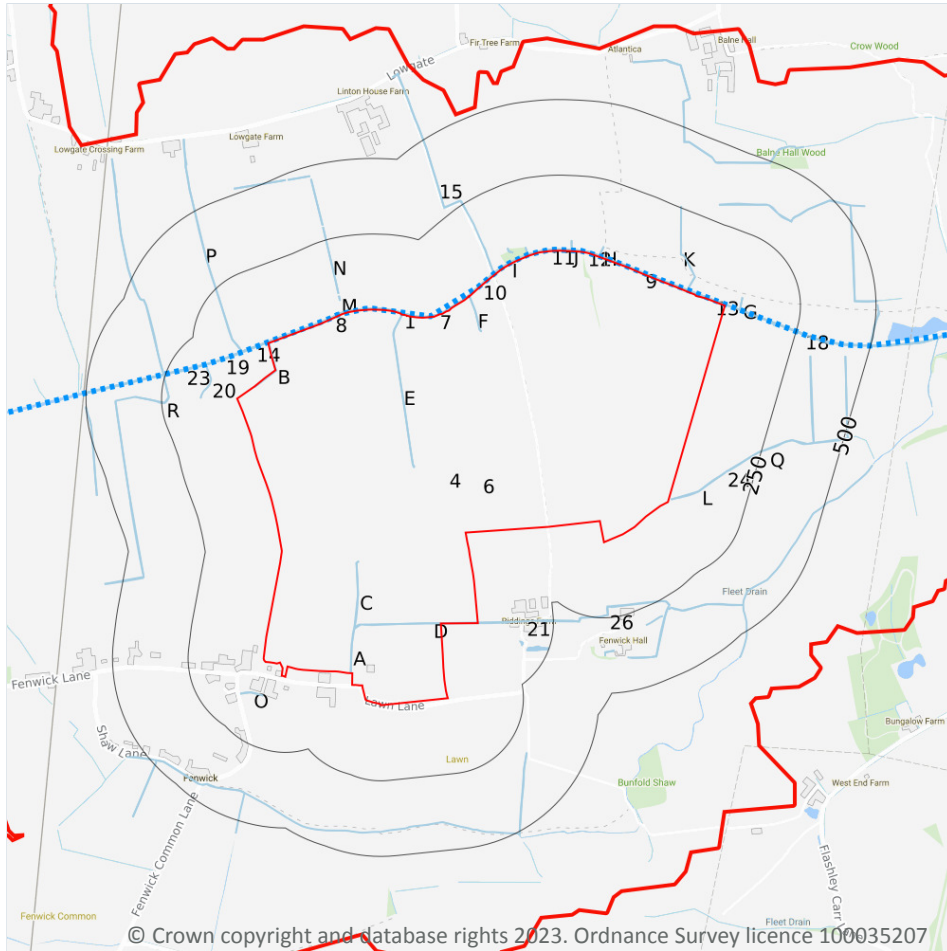
**0**

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

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

38

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 58 >](#)

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
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)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
8	2m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
9	3m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
10	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
11	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
12	3m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
H	3m 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
13	3m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
I	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
14	4m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
I	4m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	5m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	7m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	29m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	33m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	44m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	50m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
G	50m 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
N	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	89m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	92m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
P	92m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	102m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	108m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	153m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
24	154m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	156m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	203m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	226m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*



## 6.2 Surface water features

**Records within 250m**

**22**

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 58 >](#)

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

**Records on site**

**1**

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

Features are displayed on the Hydrology map on [page 58 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
4	On site	River	Went from Blowell Drain to the River Don	GB104027064260	Don Lower	Don and Rother

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

## 6.4 WFD Surface water bodies

**Records identified**

**1**

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

Features are displayed on the Hydrology map on [page 58 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
5	On site	River	Went from Blowell Drain to the River Don	<a href="#">GB104027064260</a> ↗	Moderate	Fail	Moderate	2019

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

## 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>1</b>
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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.

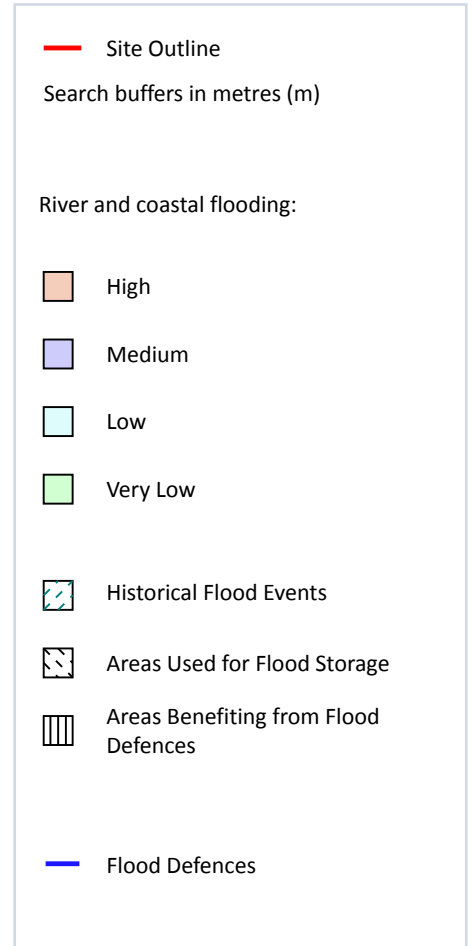
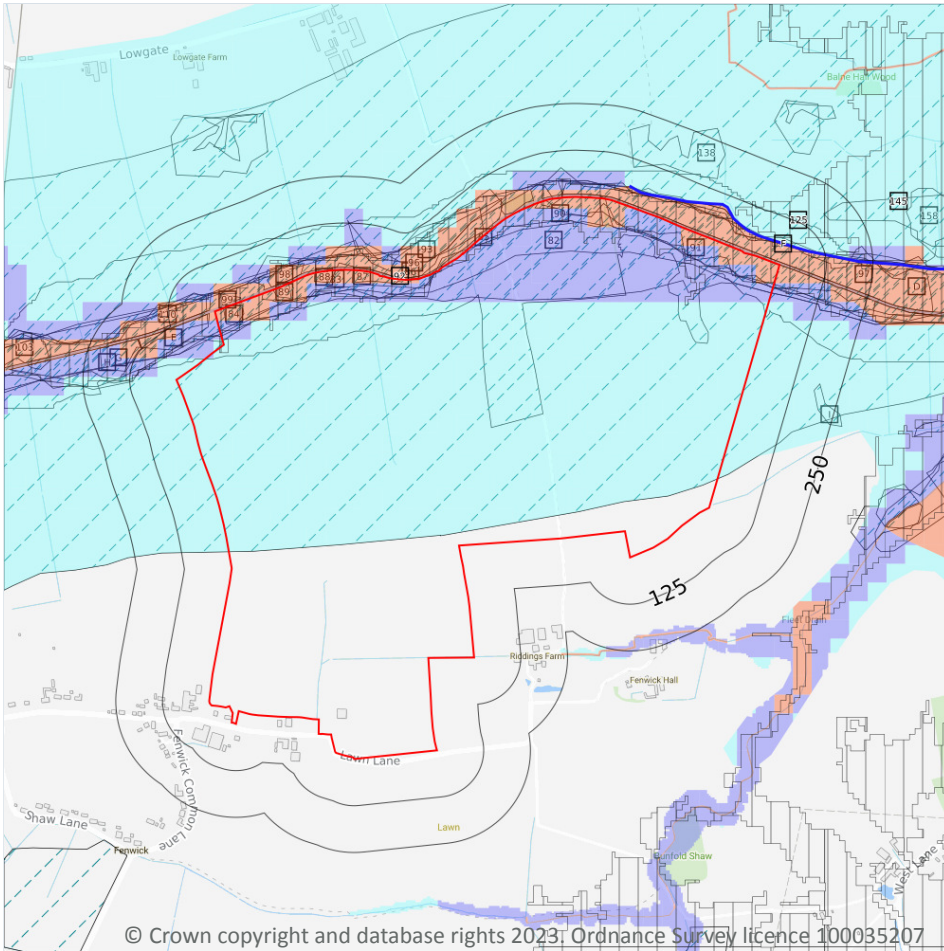
Features are displayed on the Hydrology map on [page 58](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
6	On site	Aire & Don Sherwood Sandstone.	<a href="#">GB40401G701000</a> ↗	Poor	Poor	Poor	2019

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



## 7 River and coastal flooding



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

Records within 50m

105

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 64 >](#)

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

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

## 7.2 Historical Flood Events

<b>Records within 250m</b>	<b>29</b>
----------------------------	-----------

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 64 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial
C	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial
C	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
82	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Other	No data
83	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
84	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
85	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
86	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
87	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
88	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
89	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
90	On site	123 February 1995 - River Went	1995-02-01 1995-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
91	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
93	0m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
96	6m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
D	6m NE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
97	6m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
98	7m NW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
99	8m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
103	15m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	16m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
110	22m NW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	22m NW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
138	103m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
G	124m W	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
H	129m W	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
158	180m NE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
I	182m E	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial

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

## 7.3 Flood Defences

**Records within 250m**

**1**

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

Features are displayed on the River and coastal flooding map on [page 64 >](#)

ID	Location	Update
F	45m NE	08/11/2022

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

## 7.4 Areas Benefiting from Flood Defences

**Records within 250m**

**3**

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 64 >](#)

ID	Location	
<b>92</b>	<b>On site</b>	<b>Area benefiting from flood defences</b>
125	63m NE	Area benefiting from flood defences
145	121m NE	Area benefiting from flood defences

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



## 7.5 Flood Storage Areas

Records within 250m

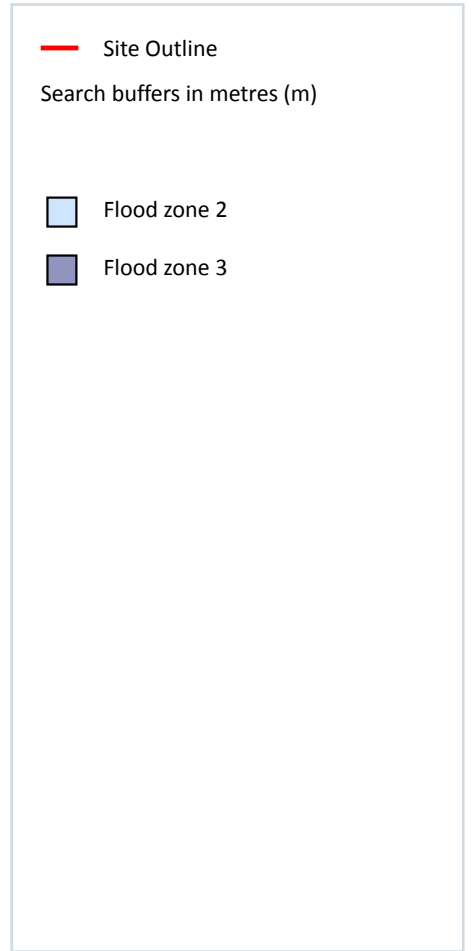
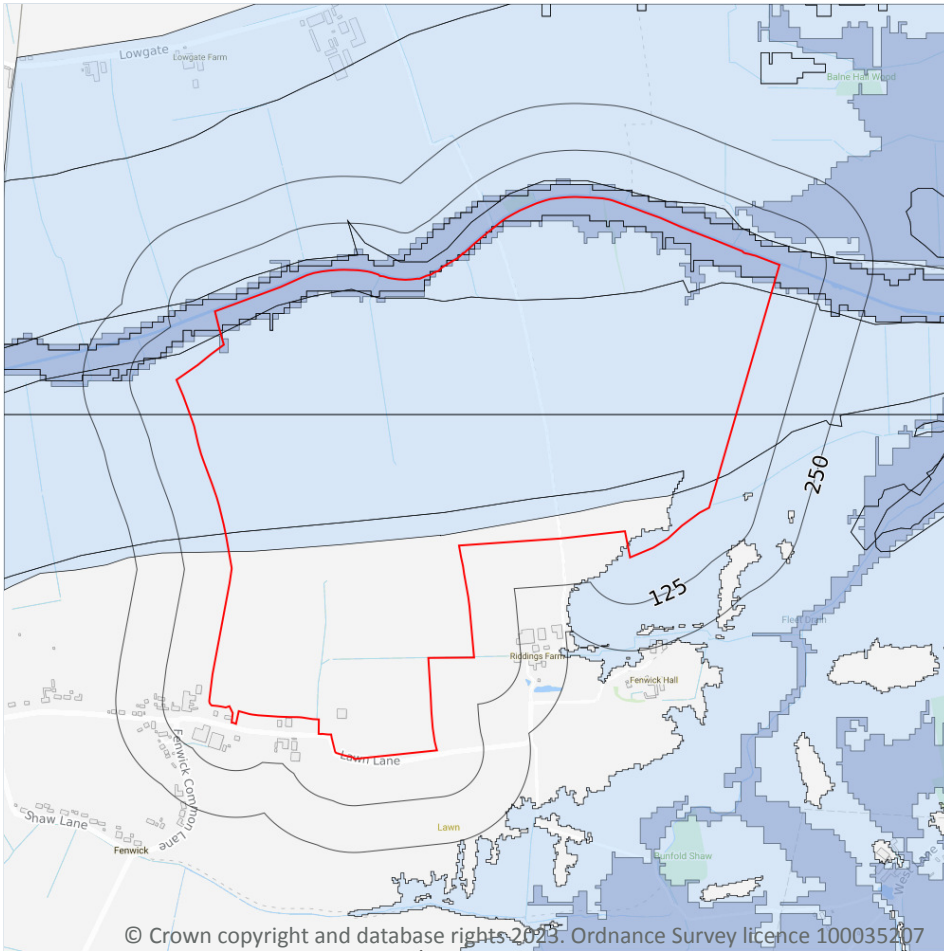
0

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

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



## River and coastal flooding - Flood Zones



### 7.6 Flood Zone 2

Records within 50m

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 64](#) >

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

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

## 7.7 Flood Zone 3

### Records within 50m

**1**

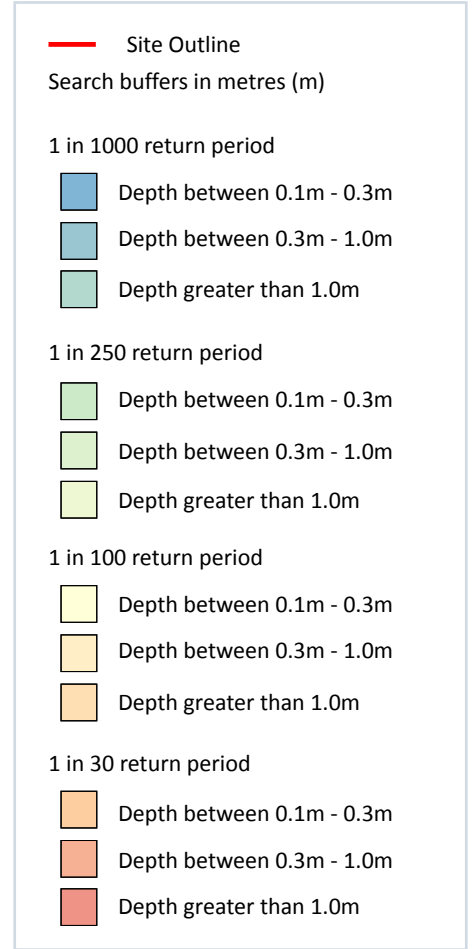
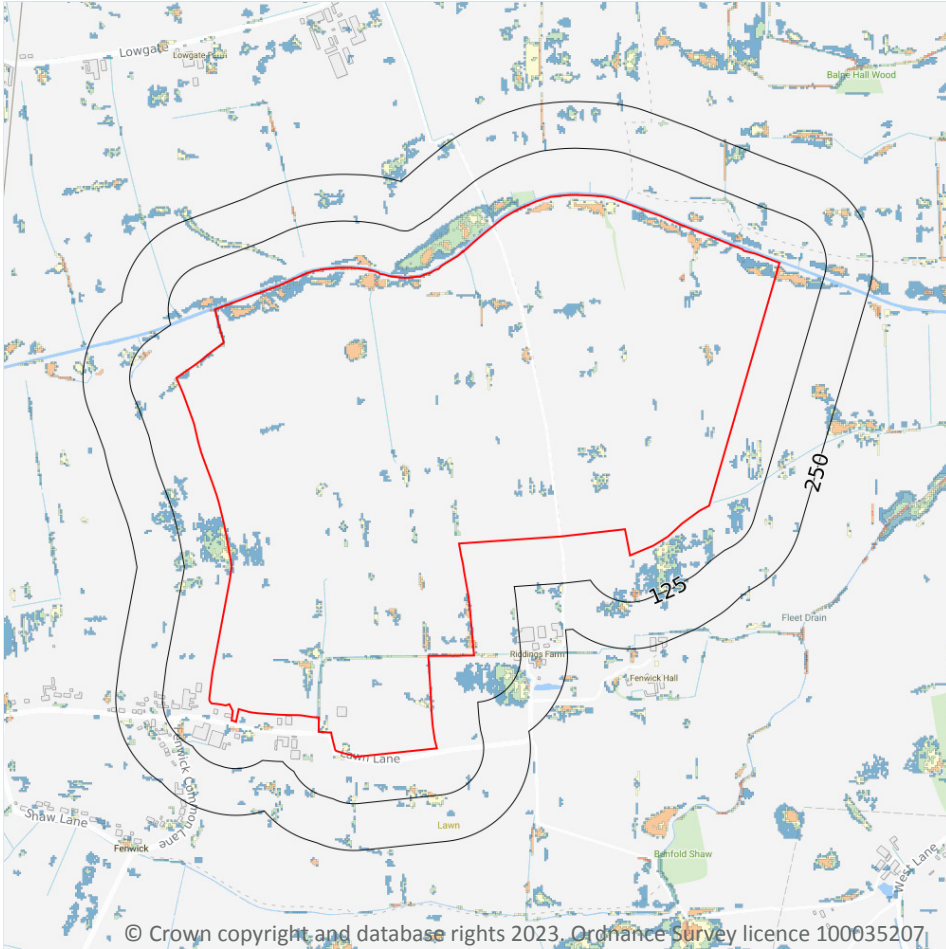
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 64](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

## 8 Surface water flooding



### 8.1 Surface water flooding

Highest risk on site

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 71 >](#)

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

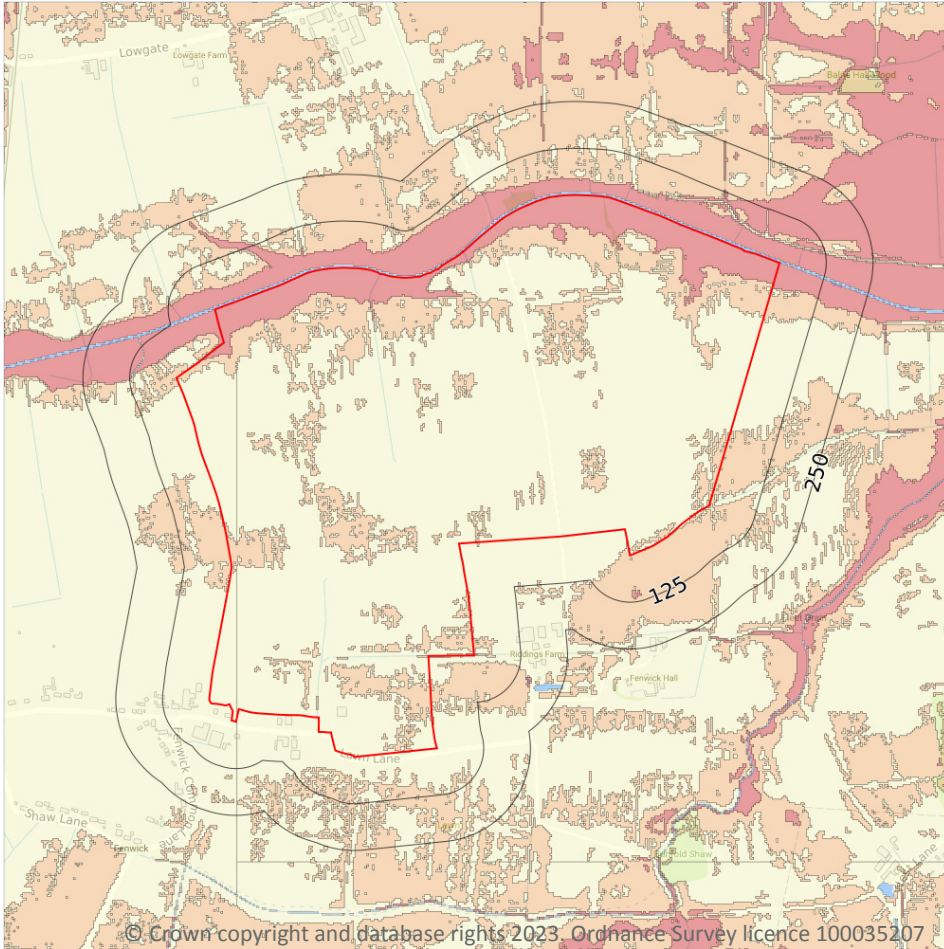


a site. The table below shows the maximum flood depths for a range of return periods for the site.

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	Between 0.3m and 1.0m

*This data is sourced from Ambiental Risk Analytics.*

## 9 Groundwater flooding



### 9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

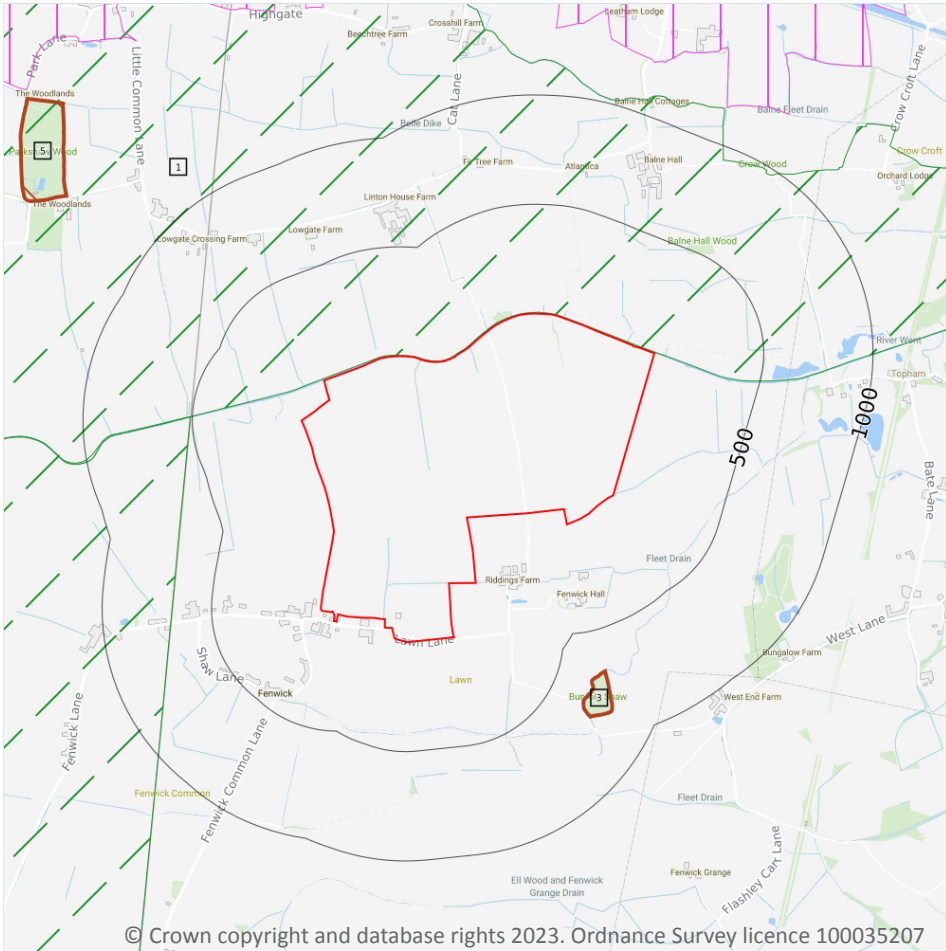
High

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

Features are displayed on the Groundwater flooding map on [page 73 >](#)

*This data is sourced from Ambiental Risk Analytics.*

## 10 Environmental designations



### 10.1 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.*

## 10.2 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.*

## 10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

## 10.4 Special Protection Areas (SPA)

Records within 2000m

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.*

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



## 10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

## 10.7 Designated Ancient Woodland

Records within 2000m

3

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 74 >](#)

ID	Location	Name	Woodland Type
3	660m SE	Bunfold Shaw	Ancient & Semi-Natural Woodland
5	1450m NW	Parkshaw Wood	Ancient Replanted Woodland
-	1861m NW	Unknown	Ancient & Semi-Natural Woodland

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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



## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 74 >](#)

ID	Location	Name	Local Authority name
1	2m NE	South and West Yorkshire	Selby
2	509m W	South and West Yorkshire	Doncaster

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

## 10.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*



### 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

### 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*

### 10.15 Nitrate Sensitive Areas

Records within 2000m

2

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).

Features are displayed on the Environmental designations map on [page 74 >](#)

ID	Location	Name	Data source
4	1171m NE	Pollington	Natural England
6	1610m N	Pollington	Natural England

*This data is sourced from Natural England.*



## 10.16 Nitrate Vulnerable Zones

Records within 2000m

3

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.

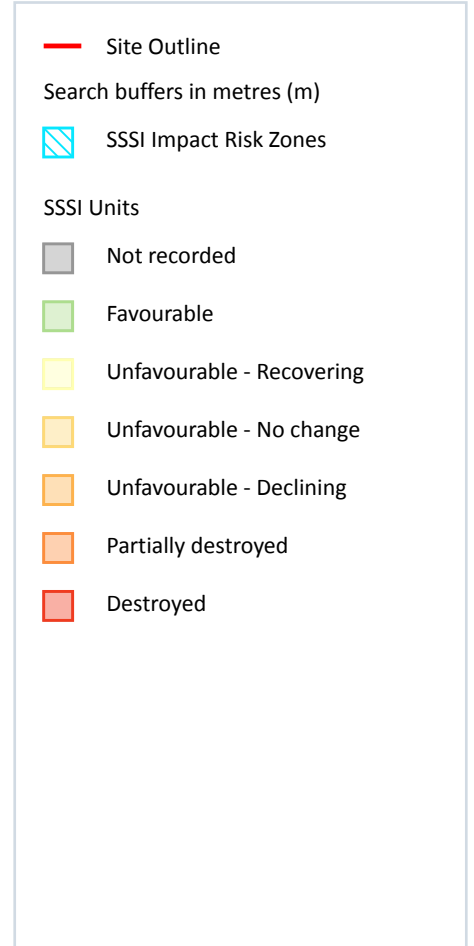
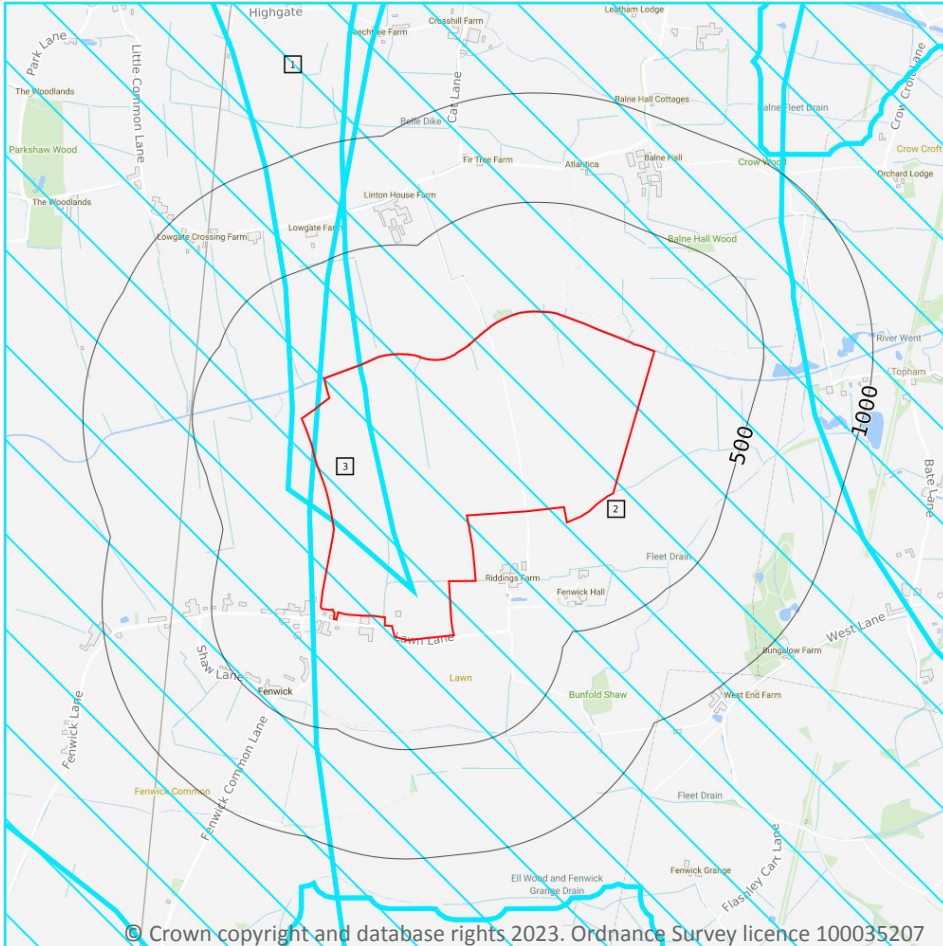
Location	Name	Type	NVZ ID	Status
<b>On site</b>	<b>Went from Blowell Drain to the River Don NVZ</b>	<b>Surface Water</b>	<b>299</b>	<b>Existing</b>
146m S	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
697m S	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing

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





## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

Records on site

3

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	Discharges - Any discharge of water or liquid waste of more than 20m <sup>3</sup> /day to ground (ie to seep away) or to surface water, such as a beck or stream.

ID	Location	Type of developments requiring consultation
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
3	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 4000m<sup>2</sup>.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>

*This data is sourced from Natural England.*

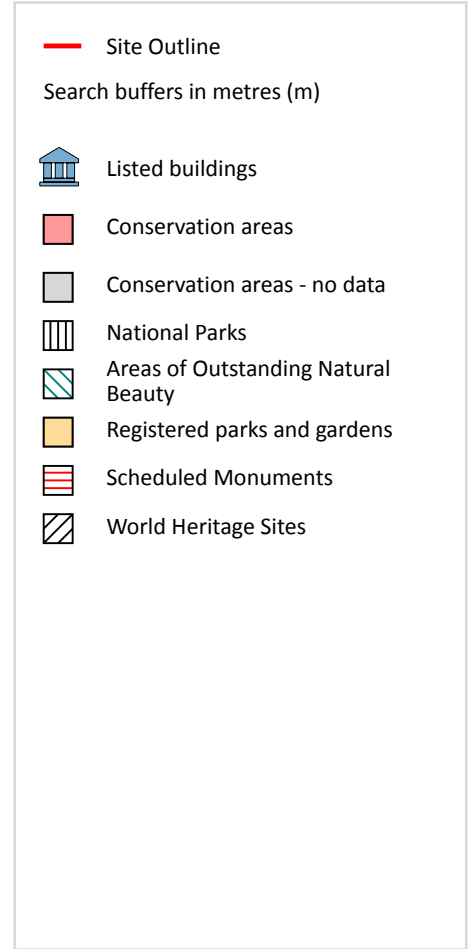
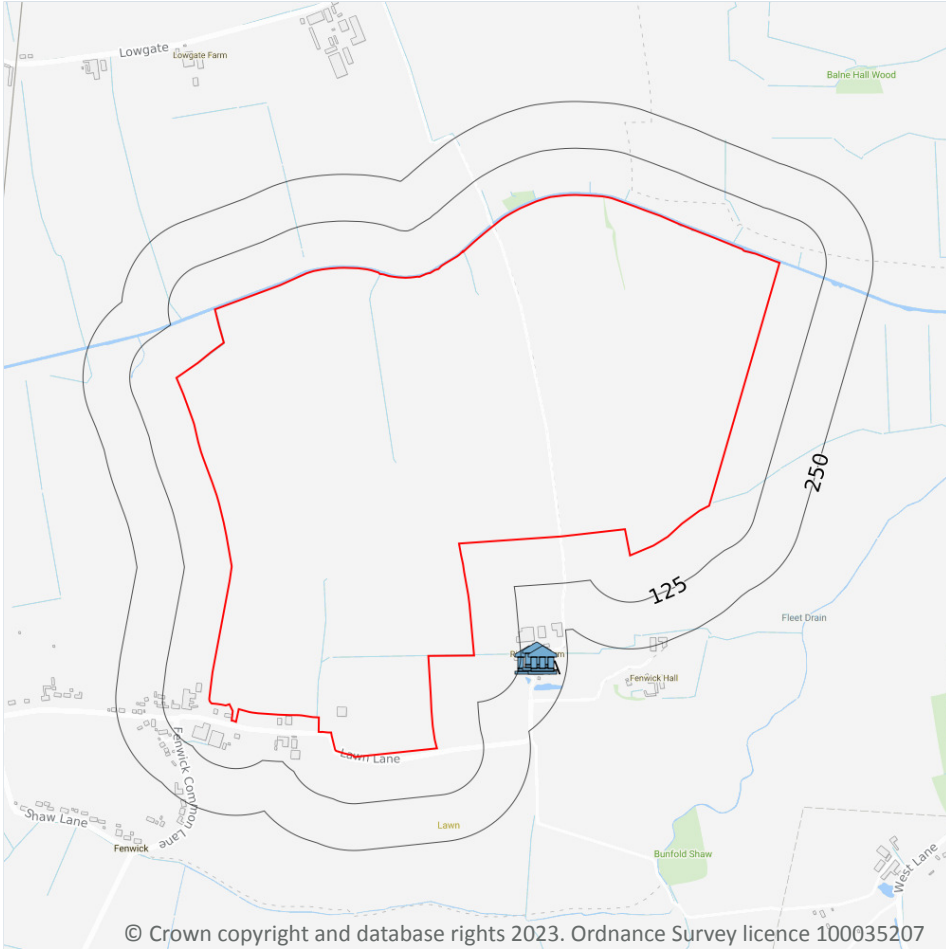
## 10.18 SSSI Units

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

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.*

## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

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

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

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

## 11.3 National Parks

Records within 250m

0

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

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

## 11.4 Listed Buildings

Records within 250m

3

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
A	148m S	Dovecote And Attached Outbuilding On West Side Of Farmyard At Riddings Farm	II	1151611	29/09/1987
A	168m S	Barn And Granary (At Riddings Farm) Immediately To North West Of Lily Hall	II	1151610	29/09/1987
A	183m S	Lily Hall (At Riddings Farm)	II	1151609	29/09/1987

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



## 11.5 Conservation Areas

Records within 250m

0

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

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

## 11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

## 11.7 Registered Parks and Gardens

Records within 250m

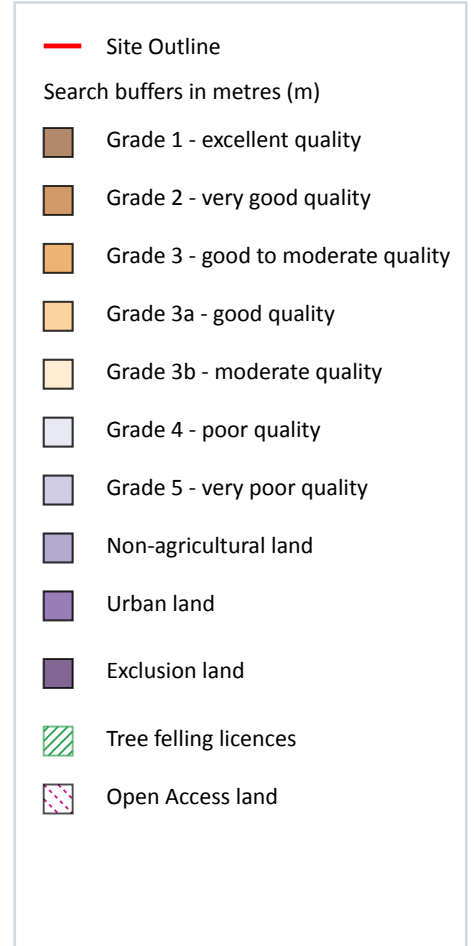
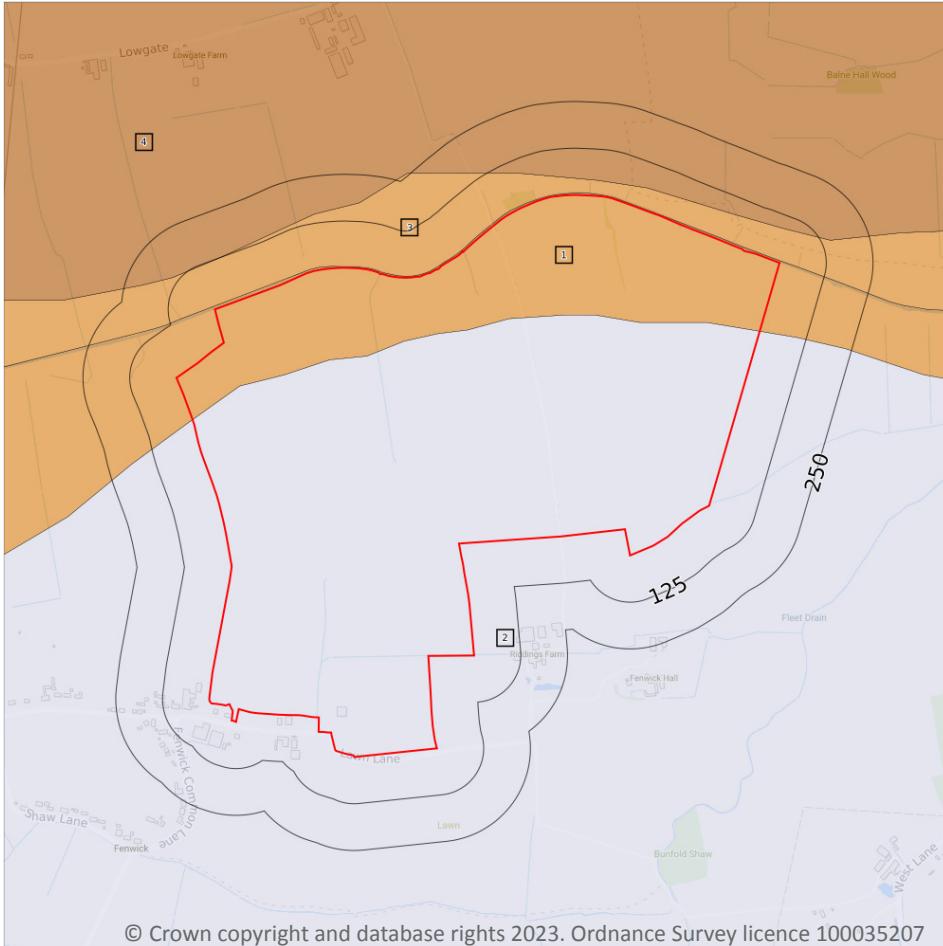
0

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

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



## 12 Agricultural designations



### 12.1 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 85](#) >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
2	On site	Grade 4	<b>Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.</b>
3	2m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
4	41m 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.*

## 12.2 Open Access Land

**Records within 250m**

**0**

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

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

## 12.3 Tree Felling Licences

**Records within 250m**

**0**

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

*This data is sourced from the Forestry Commission.*



## 12.4 Environmental Stewardship Schemes

**Records within 250m**
**1**

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

Location	Reference	Scheme	Start Date	End date
225m NE	AG00516053	Entry Level Stewardship	01/10/2013	30/09/2018

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

**Records within 250m**
**6**

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.

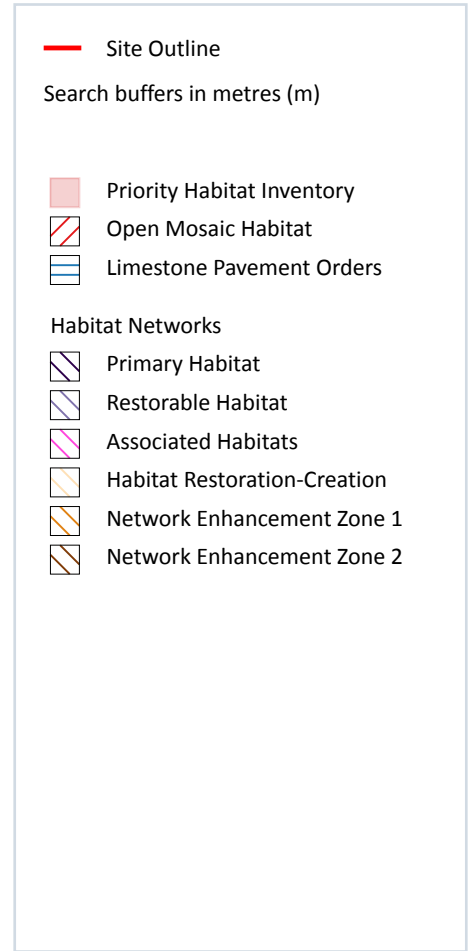
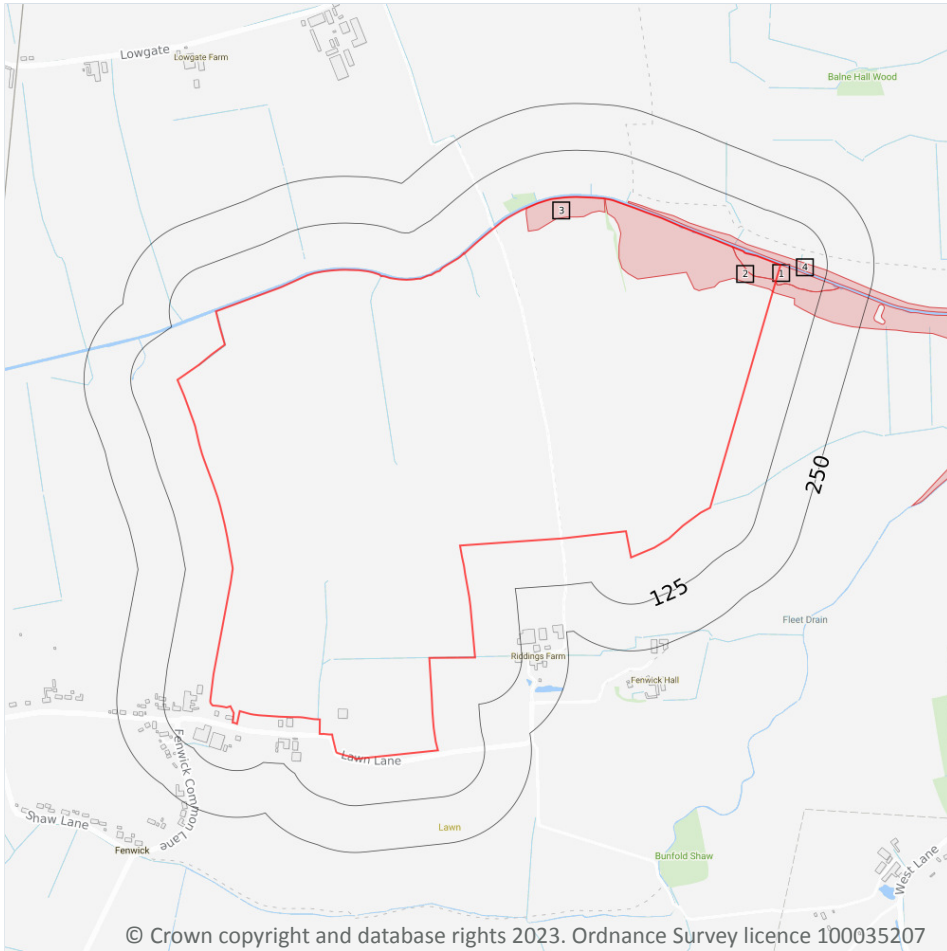
Location	Reference	Scheme	Start Date	End Date
<b>On site</b>	<b>646534</b>	<b>Countryside Stewardship (Middle Tier)</b>	<b>01/01/2019</b>	<b>31/12/2023</b>
4m N	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
5m N	646397	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
7m NE	310674	Countryside Stewardship (Middle Tier)	01/01/2017	31/12/2021
93m NW	828823	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024
207m S	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

*This data is sourced from Natural England.*





## 13 Habitat designations



### 13.1 Priority Habitat Inventory

Records within 250m

4

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

Features are displayed on the Habitat designations map on [page 88](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	6m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

**Records within 250m**

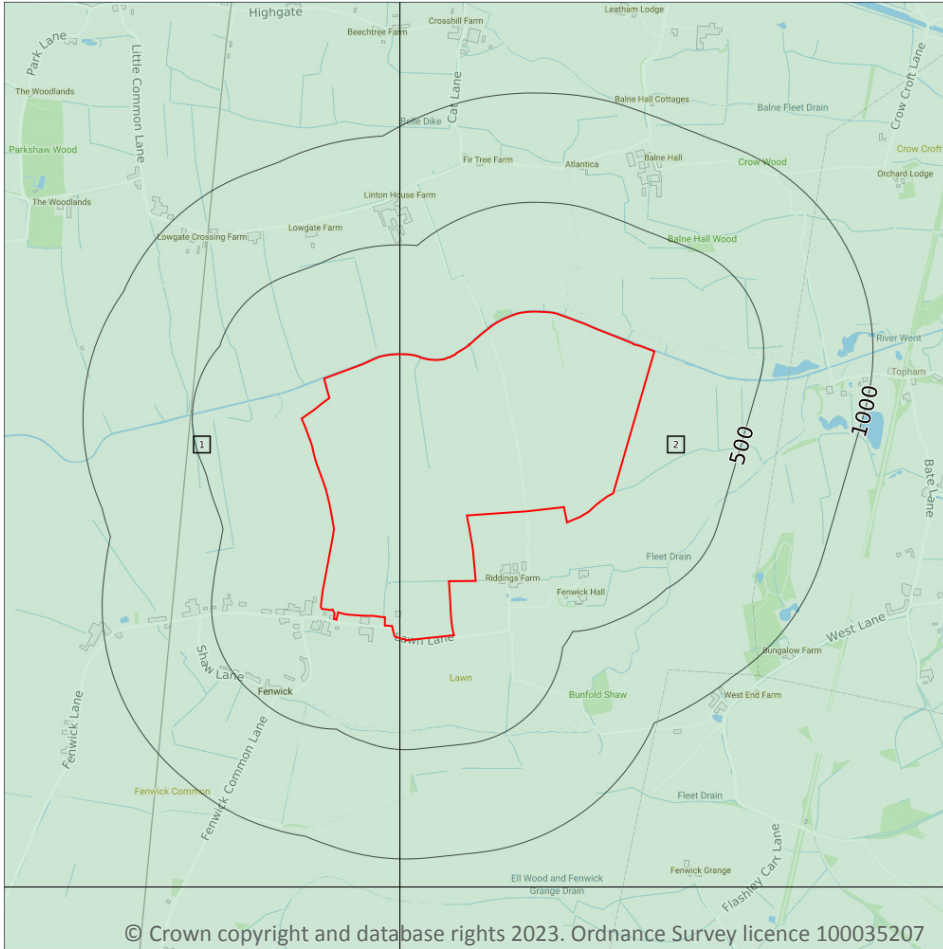
**0**

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

*This data is sourced from Natural England.*



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



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

Records within 500m

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 90](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE51NE
2	On site	No coverage	Full	Full	No coverage	SE61NW

This data is sourced from the British Geological Survey.



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023

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

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

Records within 500m

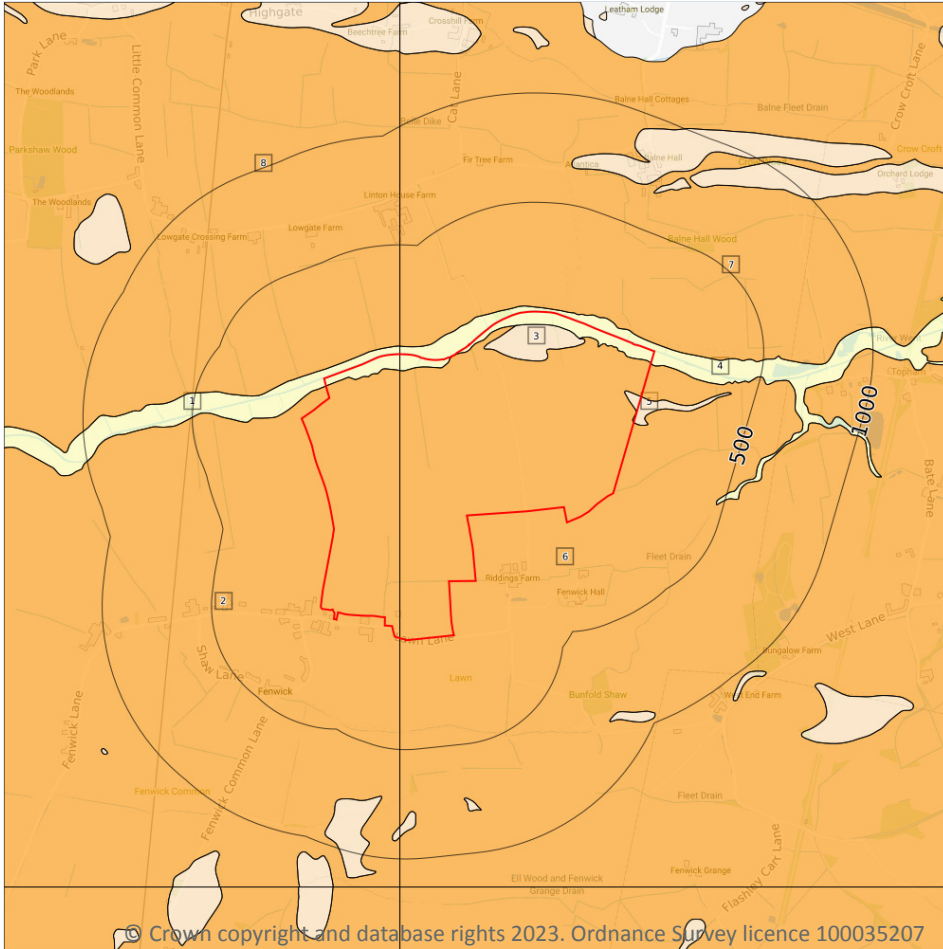
0

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

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



## Geology 1:10,000 scale - Superficial



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

### 14.3 Superficial geology (10k)

Records within 500m

8

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 92 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
3	On site	BREI-S	Brighton Sand Formation - Sand	Sand
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	BREI-S	Brighton Sand Formation - Sand	Sand
6	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
7	15m NE	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
8	34m NW	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty

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

## 14.4 Landslip (10k)

Records within 500m

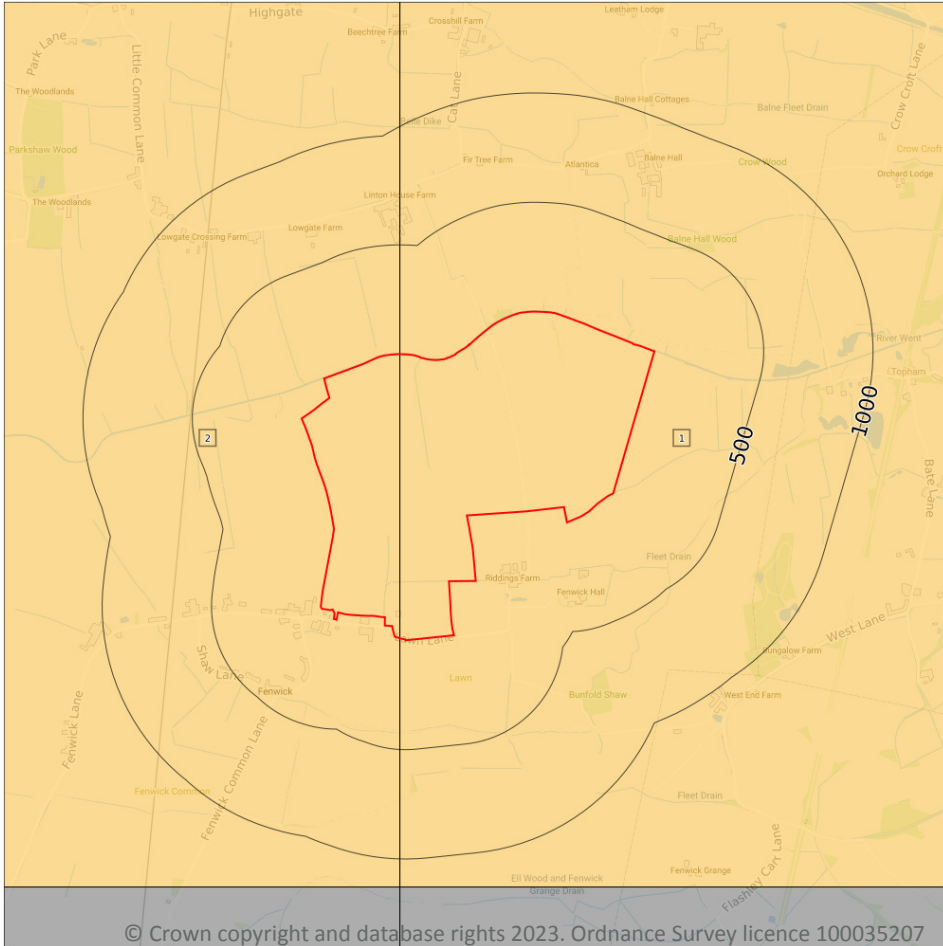
0

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

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



## Geology 1:10,000 scale - Bedrock



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

### 14.5 Bedrock geology (10k)

Records within 500m

2

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 94](#) >

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]

This data is sourced from the British Geological Survey.



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

Records within 500m

0

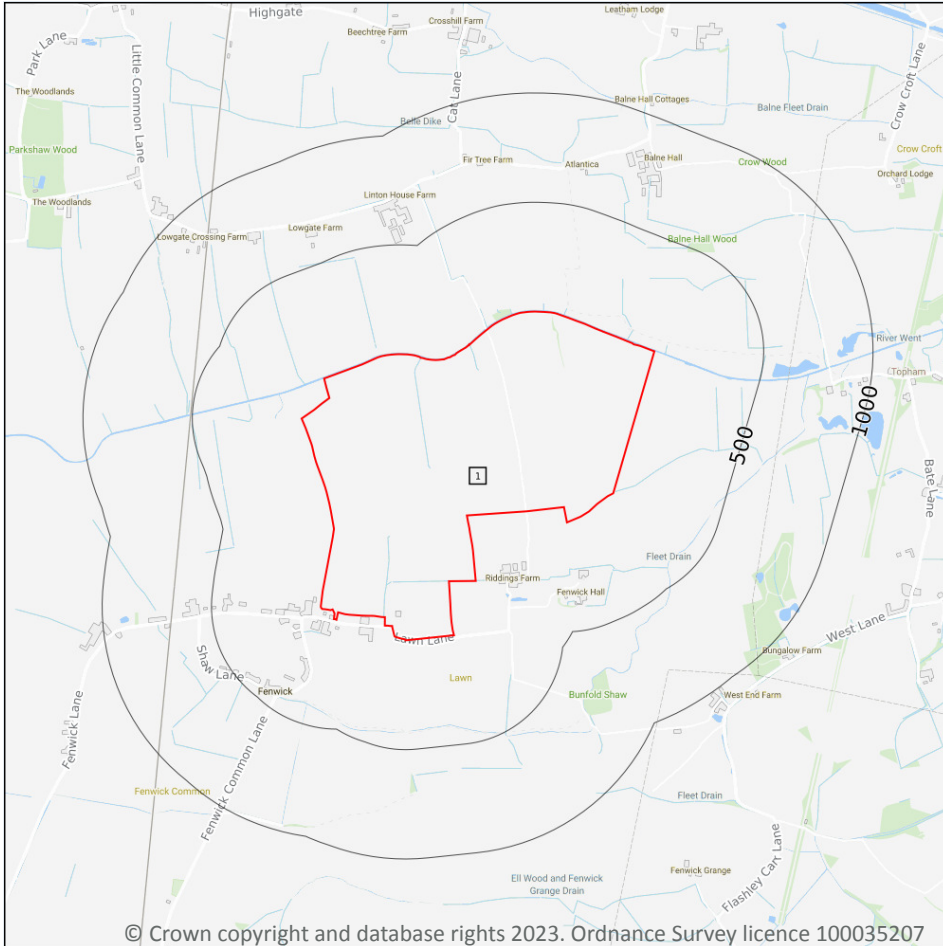
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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





## 15 Geology 1:50,000 scale - Availability



— Site Outline  
 Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 96 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	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

### 15.2 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.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

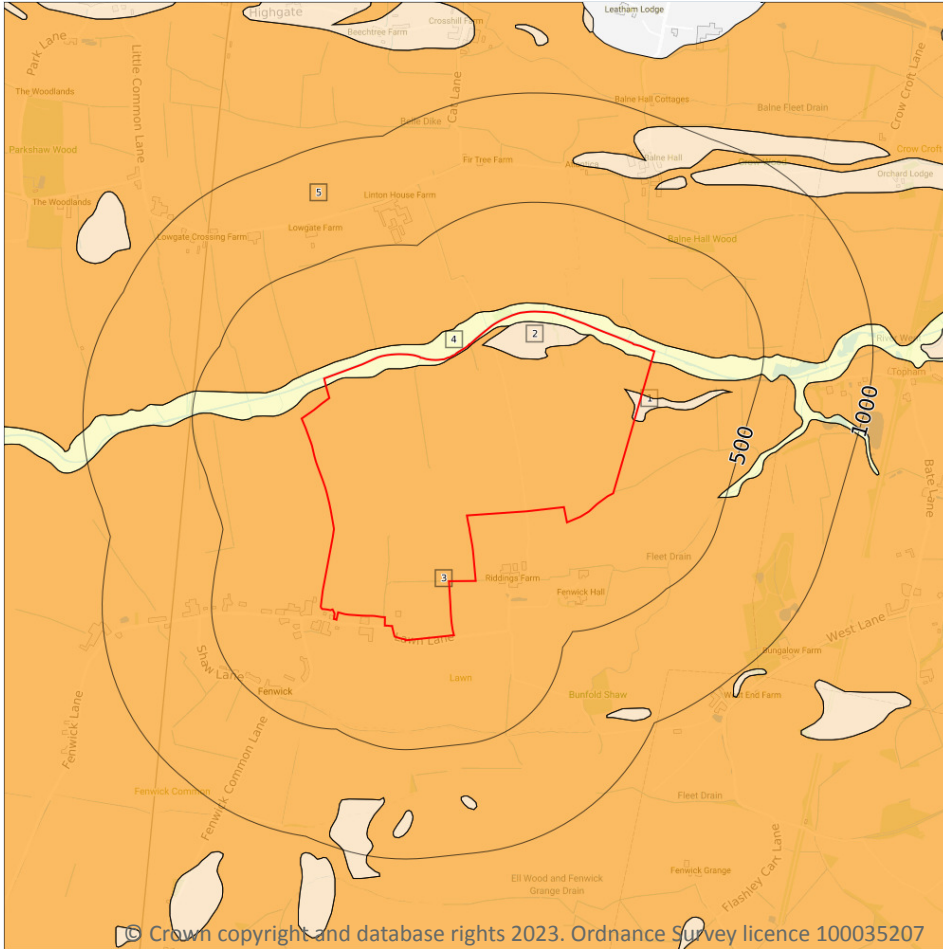
0

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

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



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

5

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 98](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BREI-S	BRIGHTON SAND FORMATION	SAND
2	On site	BREI-S	BRIGHTON SAND FORMATION	SAND
3	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
4	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	33m NE	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY

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

## 15.5 Superficial permeability (50k)

<b>Records within 50m</b>	<b>8</b>
---------------------------	----------

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
33m NE	Mixed	Low	Very Low
38m NW	Mixed	Low	Very Low

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

## 15.6 Landslip (50k)

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

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

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



## 15.7 Landslip permeability (50k)

Records within 50m

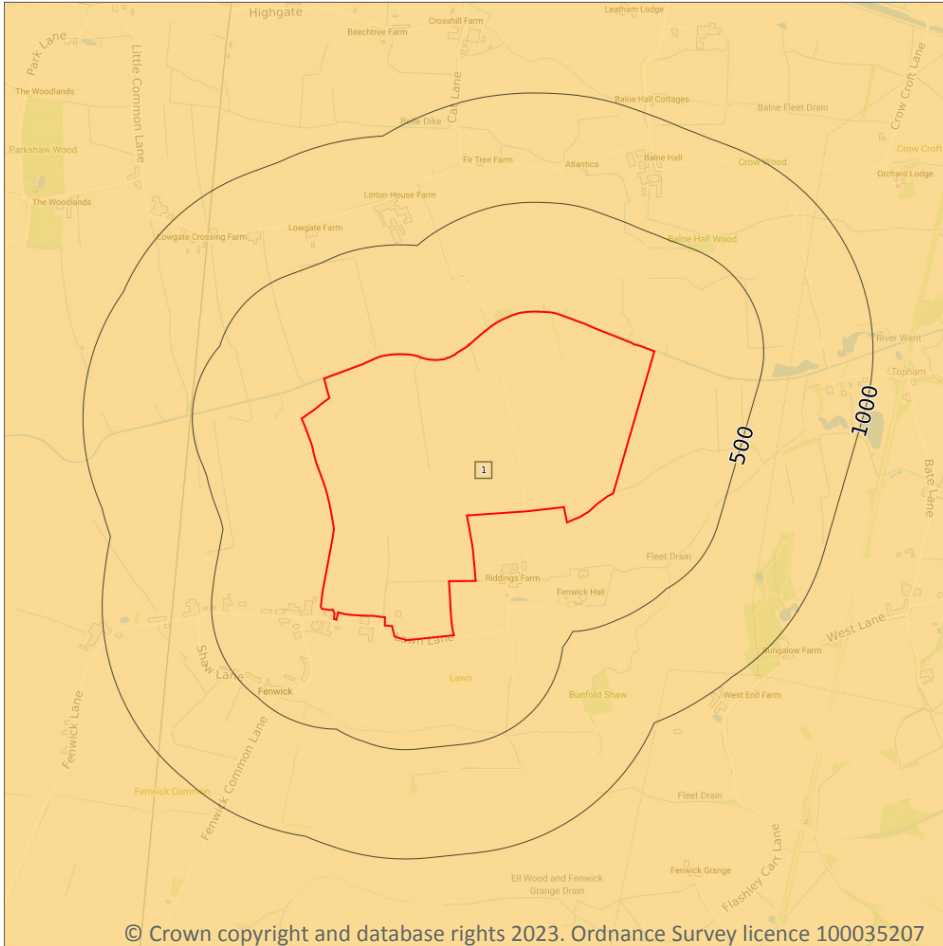
0

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

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



## Geology 1:50,000 scale - Bedrock



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

### 15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 101](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.



## 15.9 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.*

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

Records within 500m

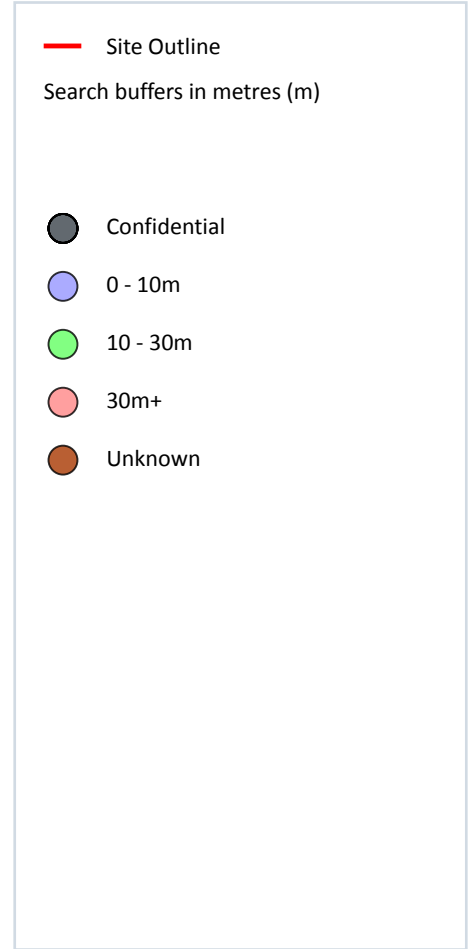
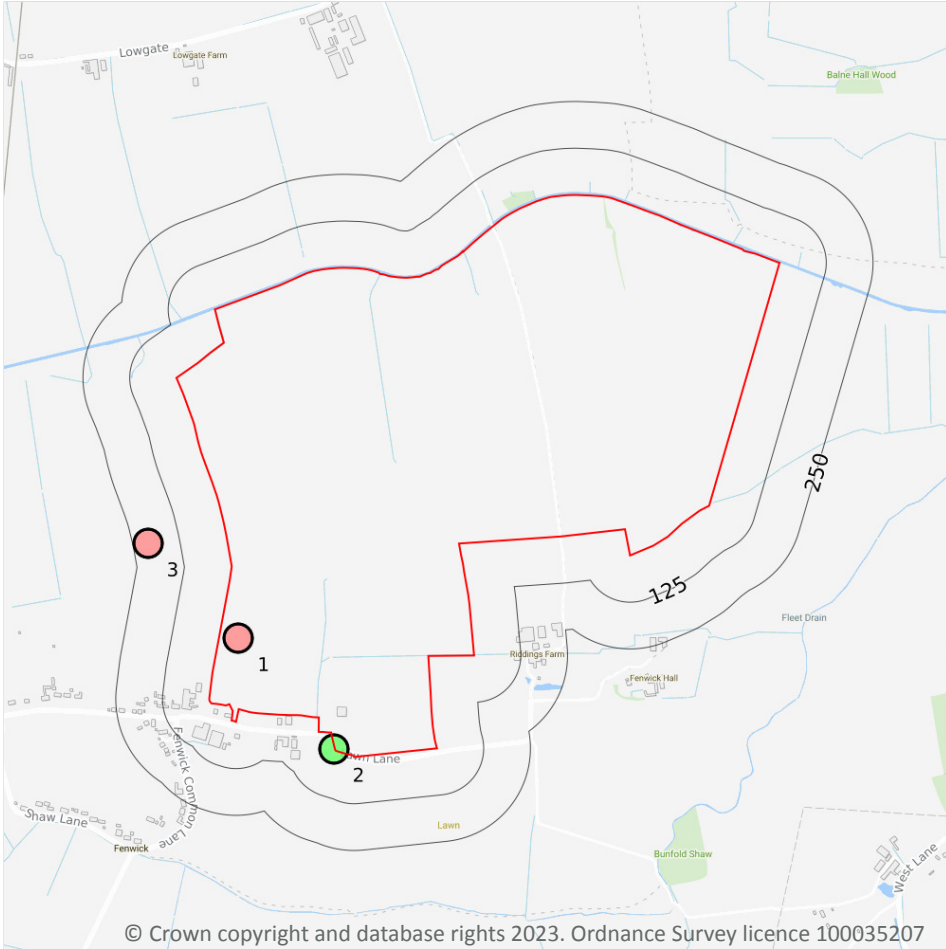
0

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

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



## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

3

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 103](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	459717 416445	SEISMIC REFLECTION SURVEY	45.72	N	<a href="#">116422</a> ↗
2	4m S	459971 416149	SEISMIC REFLECTION SURVEY	24.38	N	<a href="#">116423</a> ↗

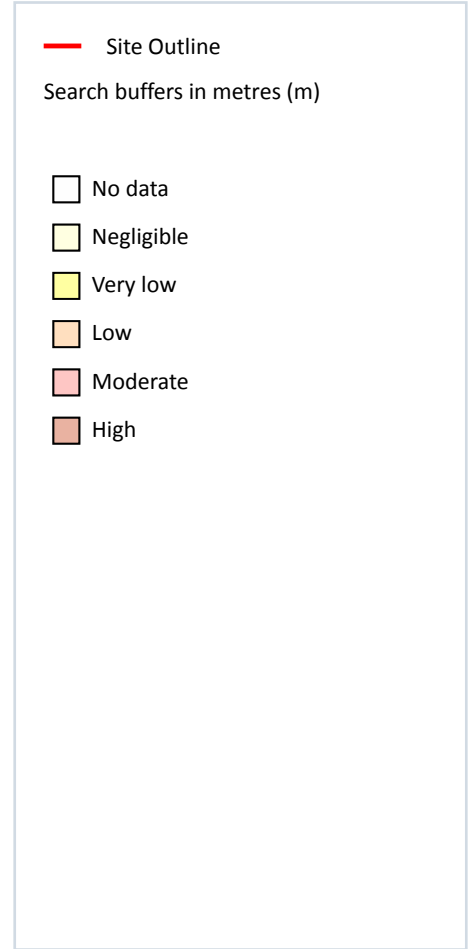
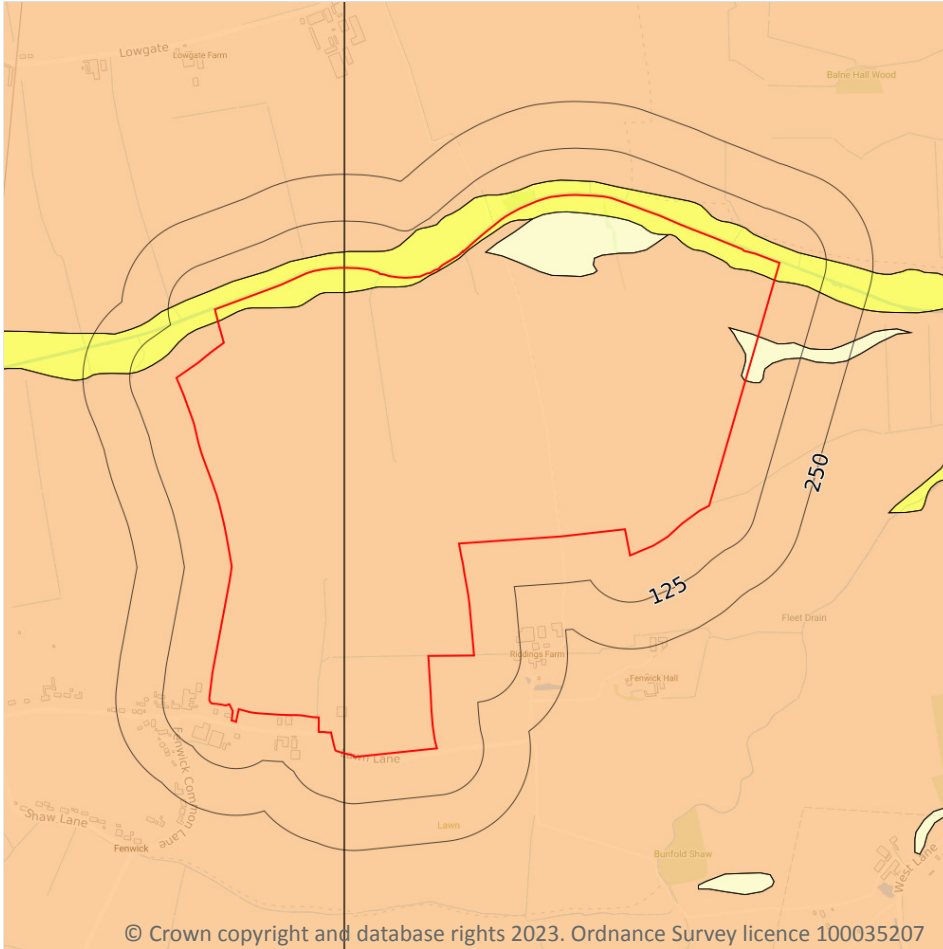


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	210m W	459474 416700	SEISMIC REFLECTION SURVEY	33.53	N	<a href="#">116421</a> ↗

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



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

Records within 50m

5

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 105 >](#)

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.

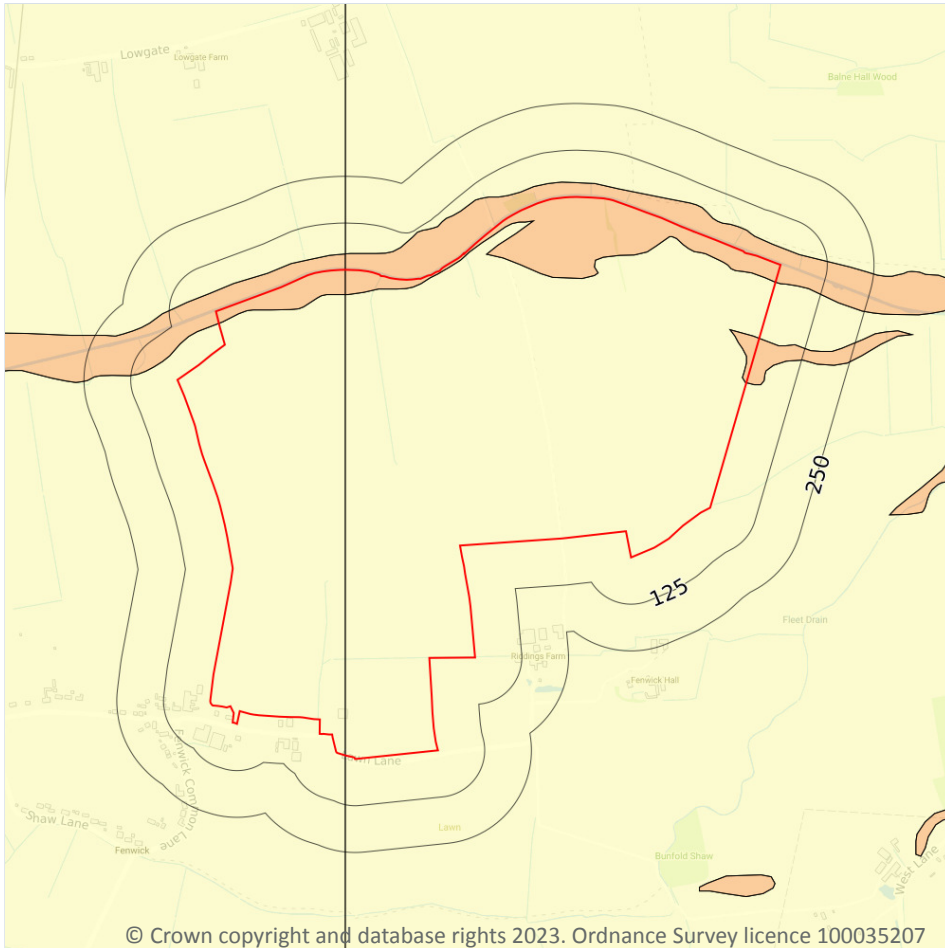


Location	Hazard rating	Details
33m NE	Low	Ground conditions predominantly medium plasticity.
38m NW	Low	Ground conditions predominantly medium plasticity.

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



## Natural ground subsidence - Running sands



— Site Outline  
Search buffers in metres (m)

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

### 17.2 Running sands

Records within 50m

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 107 >](#)

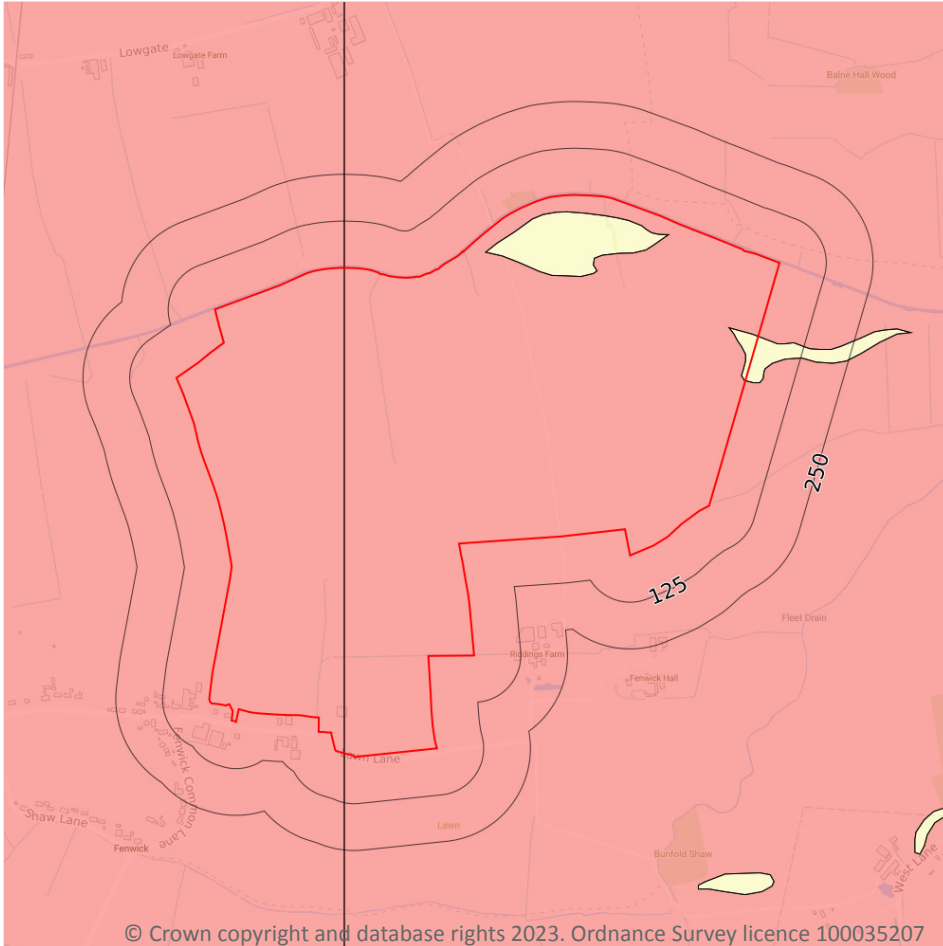
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
<b>On site</b>	<b>Low</b>	<b>Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.</b>
33m NE	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.
38m NW	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.

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



## Natural ground subsidence - Compressible deposits



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### 17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 109](#) >

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.*



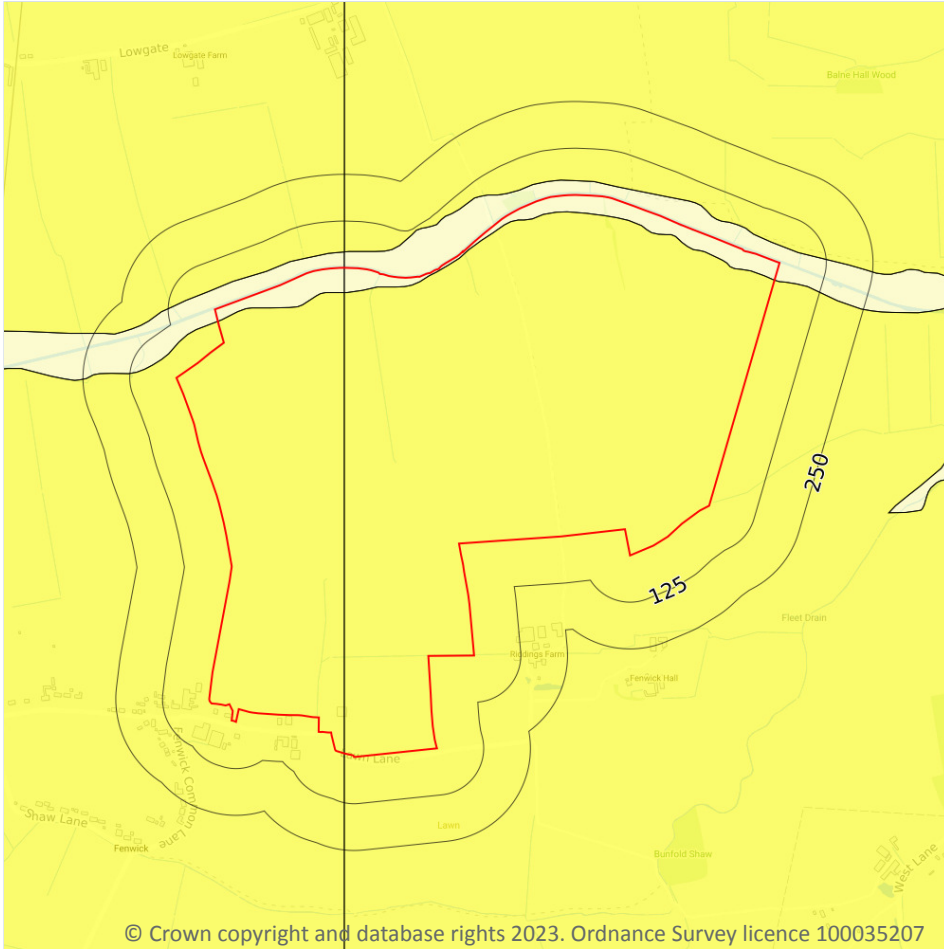
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## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

Records within 50m

4

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 111](#) >

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.
33m NE	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.



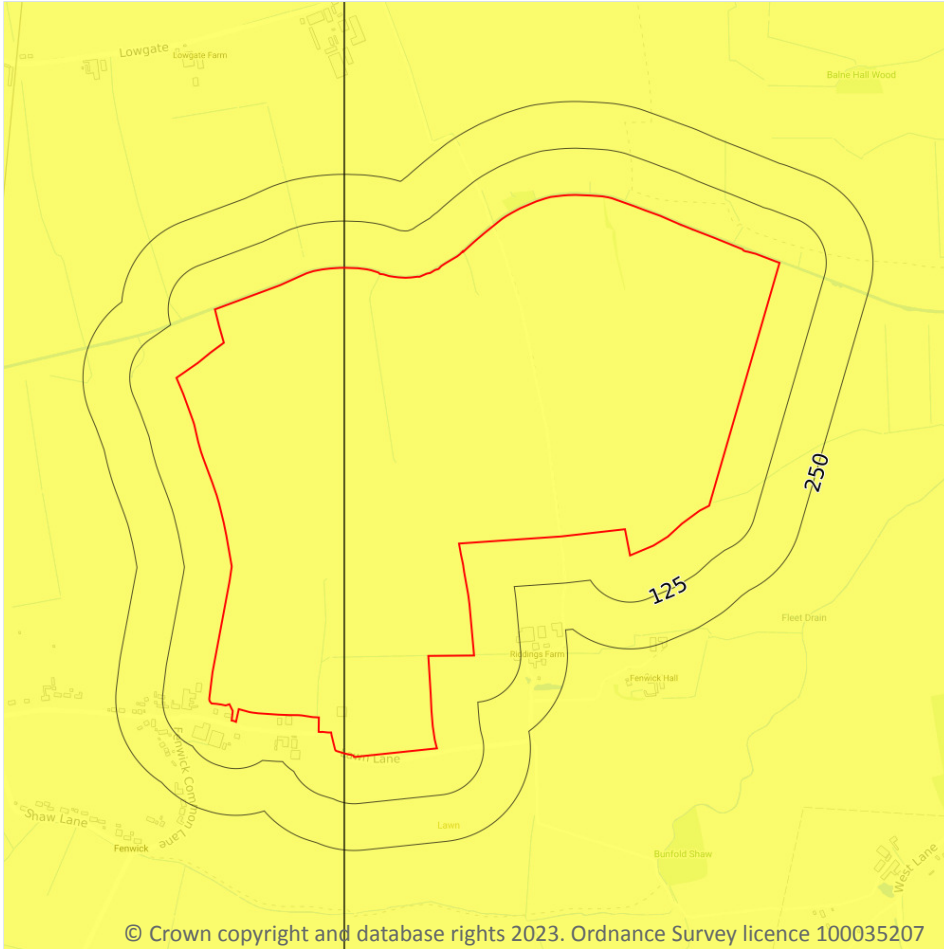


Location	Hazard rating	Details
38m NW	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

*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

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### 17.5 Landslides

**Records within 50m**

**1**

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

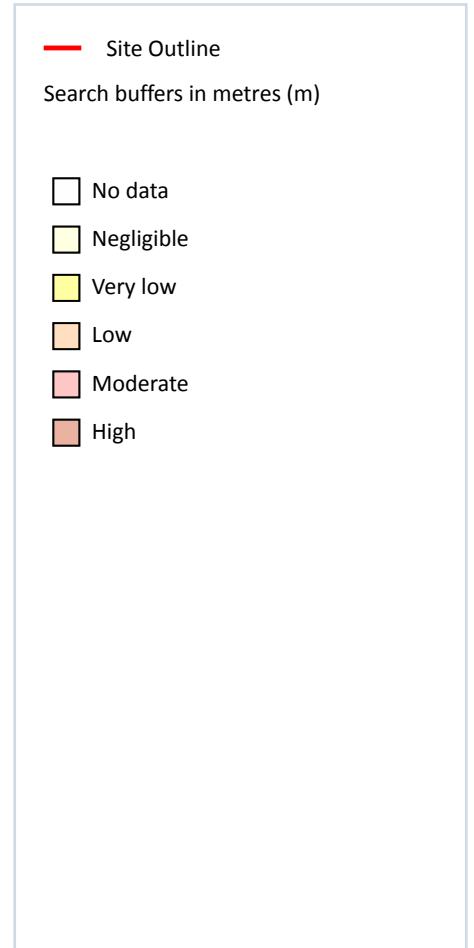
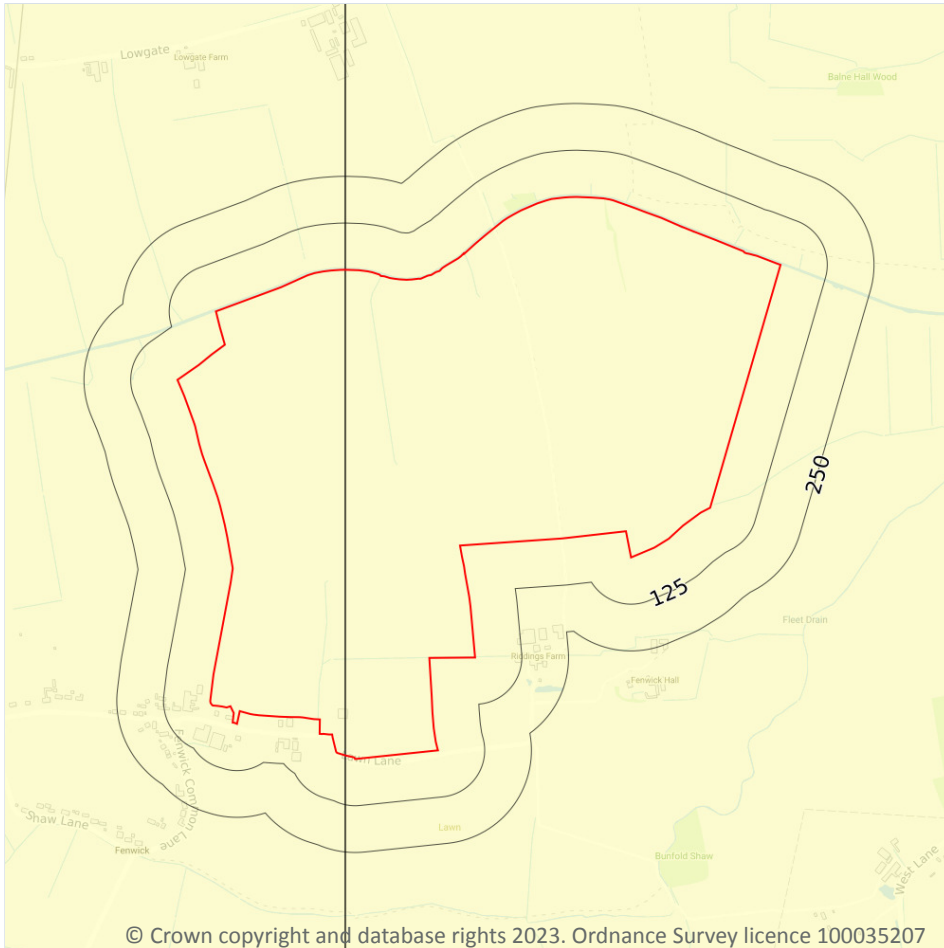
Features are displayed on the Natural ground subsidence - Landslides map on [page 113](#) >

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



### 17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 114](#) >

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.*



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## 18.2 Surface ground workings

Records within 250m

7

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 116](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
A	145m S	Ponds	1907	1:10560
A	147m S	Ponds	1948	1:10560
A	167m S	Pond	1951	1:10560
B	203m NE	Unspecified Pit	1951	1:10560
B	204m NE	Unspecified Pit	1948	1:10560
B	205m NE	Unspecified Pit	1907	1:10560
B	205m NE	Unspecified Pit	1907	1:10560

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

## 18.3 Underground workings

Records within 1000m

0

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

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

## 18.4 Underground mining extents

Records within 500m

0

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

*This data is sourced from Groundsure.*



## 18.5 Historical Mineral Planning Areas

Records within 500m

0

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

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

## 18.6 Non-coal mining

Records within 1000m

0

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

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

## 18.7 JPB mining areas

Records on site

0

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

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

*This data is sourced from The Coal Authority.*



## 18.9 Researched mining

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.12 Coal mining

Records on site

1

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

Location	Details
On site	<b>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.</b>

*This data is sourced from the Coal Authority.*





### 18.13 Brine areas

Records on site

0

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

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

### 18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

### 18.16 Clay mining

Records on site

0

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

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



## 19 Ground cavities and sinkholes

### 19.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.2 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

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

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

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

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



*This data is sourced from Groundsure.*

## 19.5 National karst database

Records within 500m

0

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

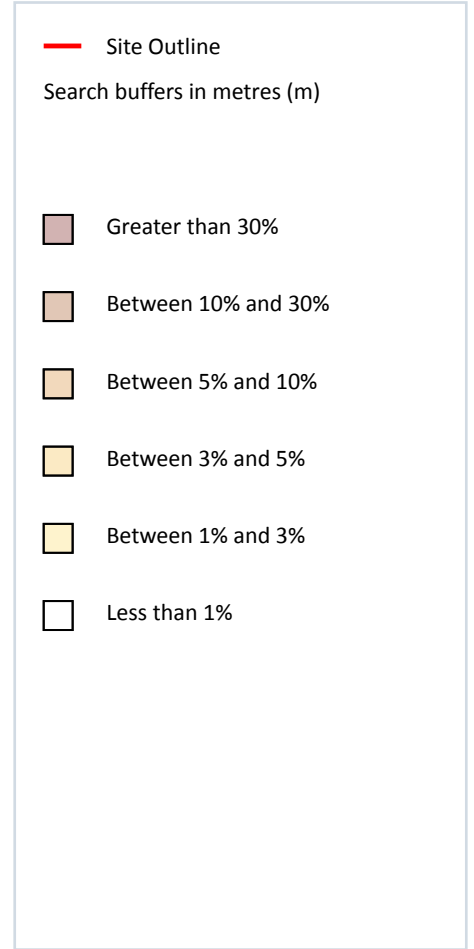
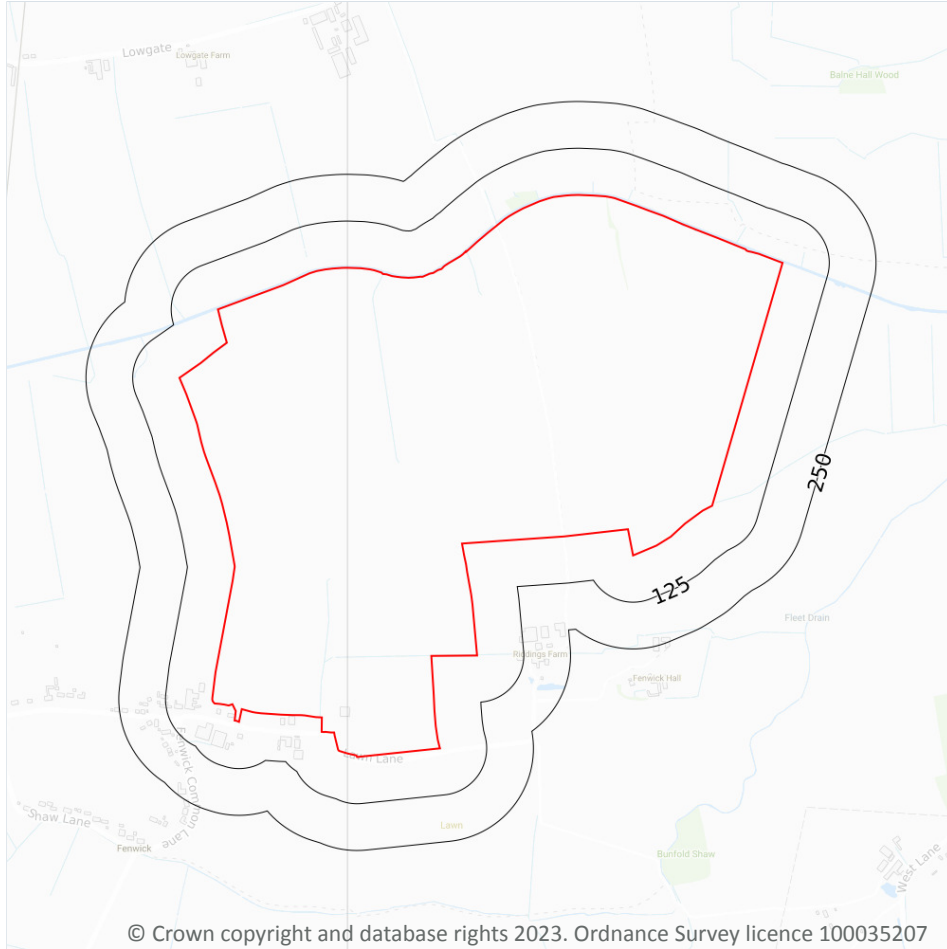
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

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



## 20 Radon



### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 123 >](#)

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.*



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## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

47

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 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	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	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	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	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	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	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
33m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
44m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
44m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m N	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
49m 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.*

## 21.2 BGS Estimated Urban Soil Chemistry

**Records within 50m**

**0**

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

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

## 21.3 BGS Measured Urban Soil Chemistry

**Records within 50m**

**0**

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

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





## 22 Railway infrastructure and projects

### 22.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.2 Underground railways (Non-London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 22.4 Historical railway and tunnel features

Records within 250m

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.*

### 22.5 Royal Mail tunnels

Records within 250m

0

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



*This data is sourced from Groundsure/the Postal Museum.*

## 22.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

**Records within 250m**

**0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 Crossrail 1

**Records within 500m**

**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 22.9 Crossrail 2

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 22.10 HS2

**Records within 500m**

**0**

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



*This data is sourced from HS2 Ltd.*



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## Data providers

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

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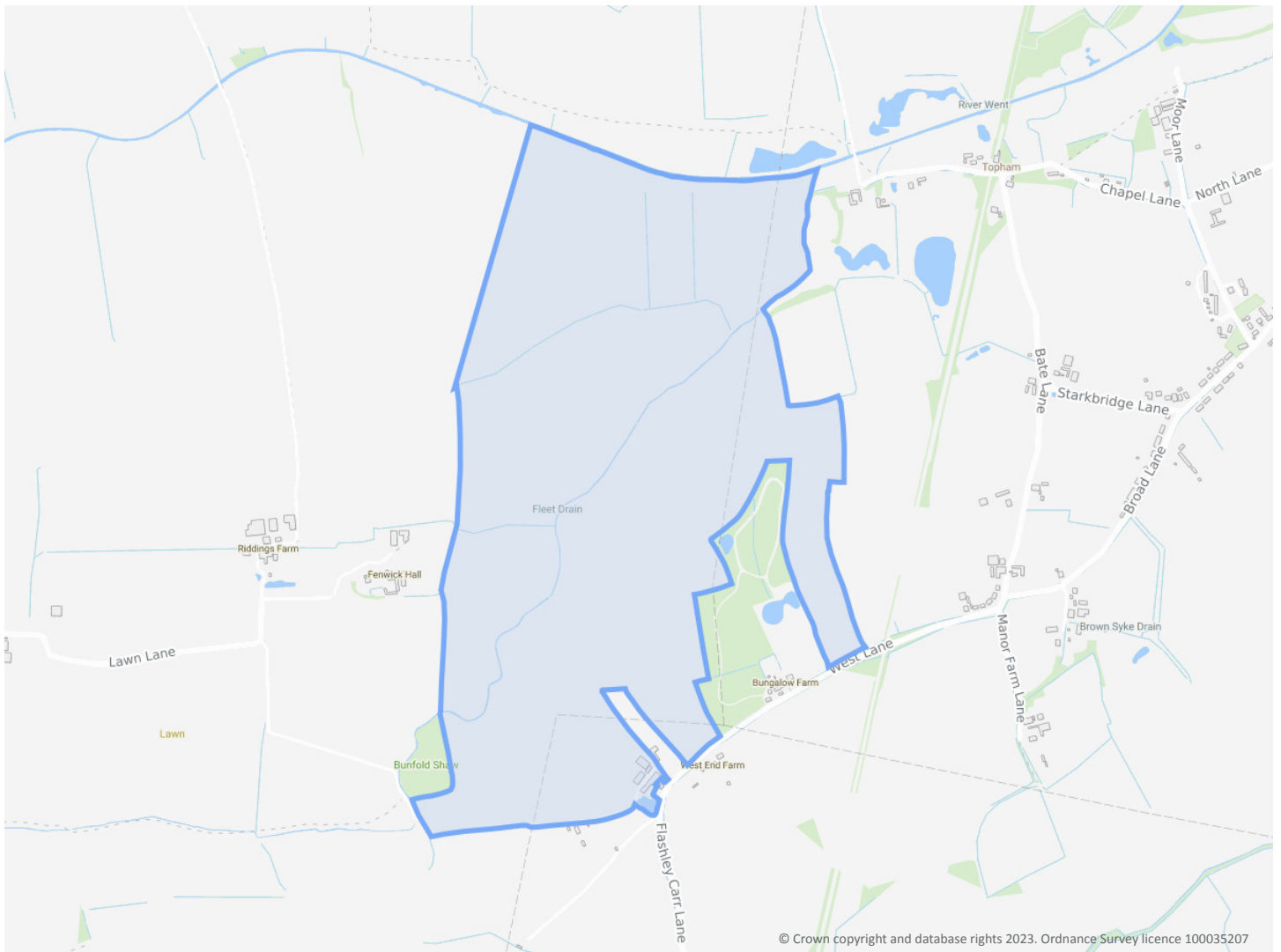
## Fenwick Solar

### Order Details

**Date:** 31/07/2023  
**Your ref:** Fenwick Solar  
**Our Ref:** GSIP-2023-13870-14752\_C

### Site Details

**Location:** 461543 416392  
**Area:** 120.74 ha  
**Authority:** [Doncaster Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

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## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	3	0	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">17 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	4	0	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
20	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
20	3.5	Historical waste sites	0	0	0	0	-
20	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">20 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	5	0	10	114	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">32 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	5	2	4	-	-
33	4.2	Current or recent petrol stations	0	0	0	0	-
33	4.3	Electricity cables	0	0	0	0	-
33	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.7	Regulated explosive sites	0	0	0	0	-
34	4.8	Hazardous substance storage/usage	0	0	0	0	-
34	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
35	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
35	4.12	Radioactive Substance Authorisations	0	0	0	0	-
35	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
35	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
36	4.16	List 1 Dangerous Substances	0	0	0	0	-
36	4.17	List 2 Dangerous Substances	0	0	0	0	-
36	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
36	4.19	Pollution inventory substances	0	0	0	0	-
37	4.20	Pollution inventory waste transfers	0	0	0	0	-
37	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<b>Hydrogeology &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>38 &gt;</b>	<b>5.1 &gt;</b>	<b>Superficial aquifer &gt;</b>	Identified (within 500m)				
<b>40 &gt;</b>	<b>5.2 &gt;</b>	<b>Bedrock aquifer &gt;</b>	Identified (within 500m)				
<b>41 &gt;</b>	<b>5.3 &gt;</b>	<b>Groundwater vulnerability &gt;</b>	Identified (within 50m)				
44	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45	5.6	Groundwater abstractions	0	0	0	0	0
<b>46 &gt;</b>	<b>5.7 &gt;</b>	<b>Surface water abstractions &gt;</b>	0	2	0	1	11
49	5.8	Potable abstractions	0	0	0	0	0
<b>49 &gt;</b>	<b>5.9 &gt;</b>	<b>Source Protection Zones &gt;</b>	1	0	0	0	-
49	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b>Hydrology &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>50 &gt;</b>	<b>6.1 &gt;</b>	<b>Water Network (OS MasterMap) &gt;</b>	28	50	46	-	-



<a href="#">60</a> >	<a href="#">6.2</a> >	<a href="#">Surface water features</a> >	1	24	30	-	-
<a href="#">60</a> >	<a href="#">6.3</a> >	<a href="#">WFD Surface water body catchments</a> >	2	-	-	-	-
<a href="#">61</a> >	<a href="#">6.4</a> >	<a href="#">WFD Surface water bodies</a> >	0	1	0	-	-
<a href="#">61</a> >	<a href="#">6.5</a> >	<a href="#">WFD Groundwater bodies</a> >	1	-	-	-	-
Page	Section	<a href="#">River and coastal flooding</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">63</a> >	<a href="#">7.1</a> >	<a href="#">Risk of flooding from rivers and the sea</a> >	High (within 50m)				
<a href="#">64</a> >	<a href="#">7.2</a> >	<a href="#">Historical Flood Events</a> >	13	8	6	-	-
<a href="#">66</a> >	<a href="#">7.3</a> >	<a href="#">Flood Defences</a> >	1	4	6	-	-
<a href="#">66</a> >	<a href="#">7.4</a> >	<a href="#">Areas Benefiting from Flood Defences</a> >	5	1	3	-	-
67	7.5	Flood Storage Areas	0	0	0	-	-
<a href="#">68</a> >	<a href="#">7.6</a> >	<a href="#">Flood Zone 2</a> >	Identified (within 50m)				
<a href="#">69</a> >	<a href="#">7.7</a> >	<a href="#">Flood Zone 3</a> >	Identified (within 50m)				
Page	Section	<a href="#">Surface water flooding</a> >					
<a href="#">70</a> >	<a href="#">8.1</a> >	<a href="#">Surface water flooding</a> >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	<a href="#">Groundwater flooding</a> >					
<a href="#">72</a> >	<a href="#">9.1</a> >	<a href="#">Groundwater flooding</a> >	High (within 50m)				
Page	Section	<a href="#">Environmental designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
73	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
74	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
74	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
74	10.4	Special Protection Areas (SPA)	0	0	0	0	0
74	10.5	National Nature Reserves (NNR)	0	0	0	0	0
75	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<a href="#">75</a> >	<a href="#">10.7</a> >	<a href="#">Designated Ancient Woodland</a> >	1	0	0	0	0
75	10.8	Biosphere Reserves	0	0	0	0	0
75	10.9	Forest Parks	0	0	0	0	0
76	10.10	Marine Conservation Zones	0	0	0	0	0
<a href="#">76</a> >	<a href="#">10.11</a> >	<a href="#">Green Belt</a> >	0	1	0	0	1
76	10.12	Proposed Ramsar sites	0	0	0	0	0





76	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
77	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
<a href="#">77 &gt;</a>	<a href="#">10.15 &gt;</a>	<a href="#">Nitrate Sensitive Areas &gt;</a>	0	0	0	0	1
<a href="#">77 &gt;</a>	<a href="#">10.16 &gt;</a>	<a href="#">Nitrate Vulnerable Zones &gt;</a>	2	0	1	0	1
<a href="#">79 &gt;</a>	<a href="#">10.17 &gt;</a>	<a href="#">SSSI Impact Risk Zones &gt;</a>	2	-	-	-	-
80	10.18	SSSI Units	0	0	0	0	0
Page	Section	<a href="#">Visual and cultural designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
82	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
82	11.3	National Parks	0	0	0	-	-
<a href="#">82 &gt;</a>	<a href="#">11.4 &gt;</a>	<a href="#">Listed Buildings &gt;</a>	0	1	4	-	-
83	11.5	Conservation Areas	0	0	0	-	-
<a href="#">83 &gt;</a>	<a href="#">11.6 &gt;</a>	<a href="#">Scheduled Ancient Monuments &gt;</a>	0	0	1	-	-
83	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<a href="#">Agricultural designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">84 &gt;</a>	<a href="#">12.1 &gt;</a>	<a href="#">Agricultural Land Classification &gt;</a>	Grade 2 (within 250m)				
85	12.2	Open Access Land	0	0	0	-	-
85	12.3	Tree Felling Licences	0	0	0	-	-
<a href="#">86 &gt;</a>	<a href="#">12.4 &gt;</a>	<a href="#">Environmental Stewardship Schemes &gt;</a>	0	1	3	-	-
<a href="#">86 &gt;</a>	<a href="#">12.5 &gt;</a>	<a href="#">Countryside Stewardship Schemes &gt;</a>	1	2	1	-	-
Page	Section	<a href="#">Habitat designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">87 &gt;</a>	<a href="#">13.1 &gt;</a>	<a href="#">Priority Habitat Inventory &gt;</a>	15	5	16	-	-
<a href="#">89 &gt;</a>	<a href="#">13.2 &gt;</a>	<a href="#">Habitat Networks &gt;</a>	1	0	1	-	-
90	13.3	Open Mosaic Habitat	0	0	0	-	-
90	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<a href="#">Geology 1:10,000 scale &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">91 &gt;</a>	<a href="#">14.1 &gt;</a>	<a href="#">10k Availability &gt;</a>	Identified (within 500m)				
92	14.2	Artificial and made ground (10k)	0	0	0	0	-
<a href="#">93 &gt;</a>	<a href="#">14.3 &gt;</a>	<a href="#">Superficial geology (10k) &gt;</a>	5	1	1	1	-

94	14.4	Landslip (10k)	0	0	0	0	-
<a href="#">95</a> >	<a href="#">14.5</a> >	<a href="#">Bedrock geology (10k)</a> >	1	0	0	0	-
96	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<a href="#">Geology 1:50,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">97</a> >	<a href="#">15.1</a> >	<a href="#">50k Availability</a> >	Identified (within 500m)				
98	15.2	Artificial and made ground (50k)	0	0	0	0	-
98	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<a href="#">99</a> >	<a href="#">15.4</a> >	<a href="#">Superficial geology (50k)</a> >	5	1	1	1	-
<a href="#">100</a> >	<a href="#">15.5</a> >	<a href="#">Superficial permeability (50k)</a> >	Identified (within 50m)				
100	15.6	Landslip (50k)	0	0	0	0	-
101	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">102</a> >	<a href="#">15.8</a> >	<a href="#">Bedrock geology (50k)</a> >	1	0	0	0	-
<a href="#">103</a> >	<a href="#">15.9</a> >	<a href="#">Bedrock permeability (50k)</a> >	Identified (within 50m)				
103	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<a href="#">Boreholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">104</a> >	<a href="#">16.1</a> >	<a href="#">BGS Boreholes</a> >	4	1	2	-	-
Page	Section	<a href="#">Natural ground subsidence</a> >					
<a href="#">106</a> >	<a href="#">17.1</a> >	<a href="#">Shrink swell clays</a> >	Low (within 50m)				
<a href="#">108</a> >	<a href="#">17.2</a> >	<a href="#">Running sands</a> >	Low (within 50m)				
<a href="#">110</a> >	<a href="#">17.3</a> >	<a href="#">Compressible deposits</a> >	Moderate (within 50m)				
<a href="#">112</a> >	<a href="#">17.4</a> >	<a href="#">Collapsible deposits</a> >	Very low (within 50m)				
<a href="#">114</a> >	<a href="#">17.5</a> >	<a href="#">Landslides</a> >	Very low (within 50m)				
<a href="#">115</a> >	<a href="#">17.6</a> >	<a href="#">Ground dissolution of soluble rocks</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings</a> >	On site	0-50m	50-250m	250-500m	500-2000m
117	18.1	BritPits	0	0	0	0	-
<a href="#">118</a> >	<a href="#">18.2</a> >	<a href="#">Surface ground workings</a> >	3	0	5	-	-
118	18.3	Underground workings	0	0	0	0	0
118	18.4	Underground mining extents	0	0	0	0	-
119	18.5	Historical Mineral Planning Areas	0	0	0	0	-



119	18.6	Non-coal mining	0	0	0	0	0
119	18.7	JPB mining areas	None (within 0m)				
119	18.8	The Coal Authority non-coal mining	0	0	0	0	-
120	18.9	Researched mining	0	0	0	0	-
120	18.10	Mining record office plans	0	0	0	0	-
120	18.11	BGS mine plans	0	0	0	0	-
<b>120 &gt;</b>	<b>18.12 &gt;</b>	<b>Coal mining &gt;</b>	Identified (within 0m)				
121	18.13	Brine areas	None (within 0m)				
121	18.14	Gypsum areas	None (within 0m)				
121	18.15	Tin mining	None (within 0m)				
121	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
122	19.1	Natural cavities	0	0	0	0	-
122	19.2	Mining cavities	0	0	0	0	0
122	19.3	Reported recent incidents	0	0	0	0	-
122	19.4	Historical incidents	0	0	0	0	-
123	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<b>124 &gt;</b>	<b>20.1 &gt;</b>	<b>Radon &gt;</b>	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<b>126 &gt;</b>	<b>21.1 &gt;</b>	<b>BGS Estimated Background Soil Chemistry &gt;</b>	36	6	-	-	-
128	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
128	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
129	22.1	Underground railways (London)	0	0	0	-	-
129	22.2	Underground railways (Non-London)	0	0	0	-	-
130	22.3	Railway tunnels	0	0	0	-	-
<b>130 &gt;</b>	<b>22.4 &gt;</b>	<b>Historical railway and tunnel features &gt;</b>	0	0	1	-	-
130	22.5	Royal Mail tunnels	0	0	0	-	-

<a href="#">130</a> >	<a href="#">22.6</a> >	<a href="#">Historical railways</a> >	0	0	1	-	-
131	22.7	Railways	0	0	0	-	-
131	22.8	Crossrail 1	0	0	0	0	-
131	22.9	Crossrail 2	0	0	0	0	-
131	22.10	HS2	0	0	0	0	-

## Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 120.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023



## Recent site history - 2020 aerial photograph



Capture Date: 25/06/2020

Site Area: 120.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2017 aerial photograph



Capture Date: 25/05/2017

Site Area: 120.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 120.74ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023



## Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 120.74ha



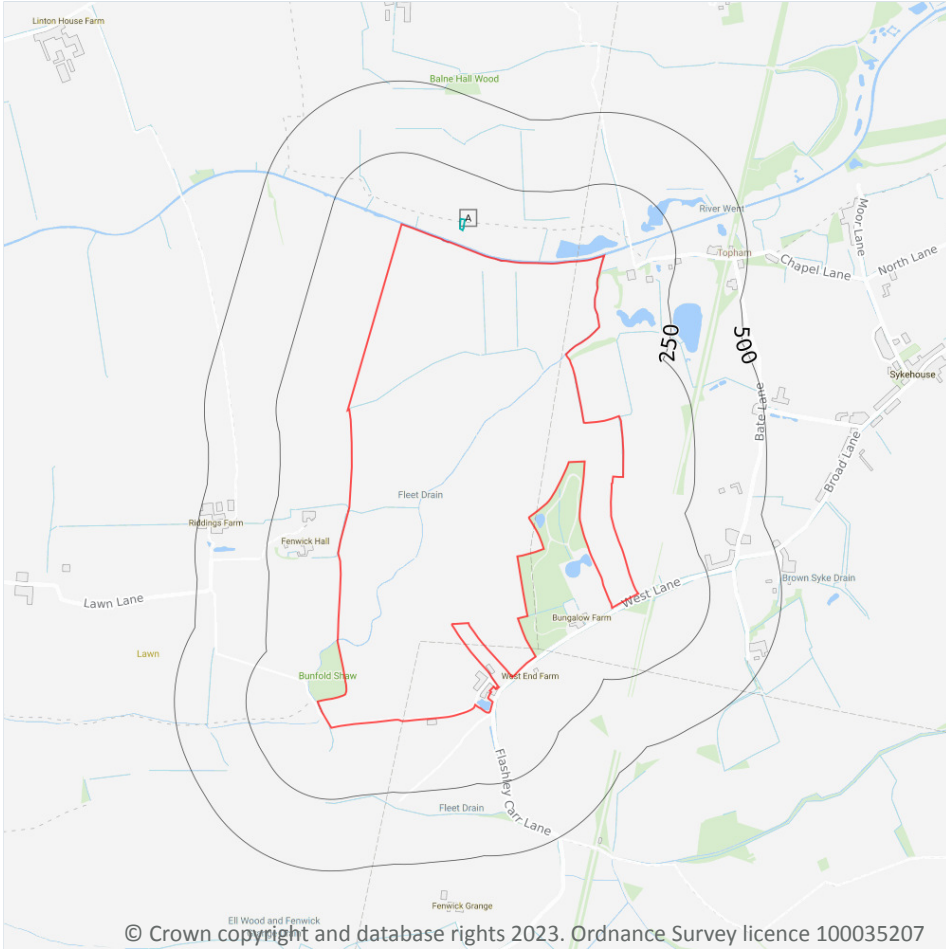
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

# 1 Past land use



**Site Outline**

Search buffers in metres (m)

- Historical industrial land uses

## 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 14](#) >

ID	Location	Land use	Dates present	Group ID
A	53m N	Unspecified Pit	1948	1528954



ID	Location	Land use	Dates present	Group ID
A	55m N	Unspecified Pit	1951	1509066
A	57m N	Unspecified Pit	1907	1540462

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

## 1.2 Historical tanks

**Records within 500m**

**0**

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'.

*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

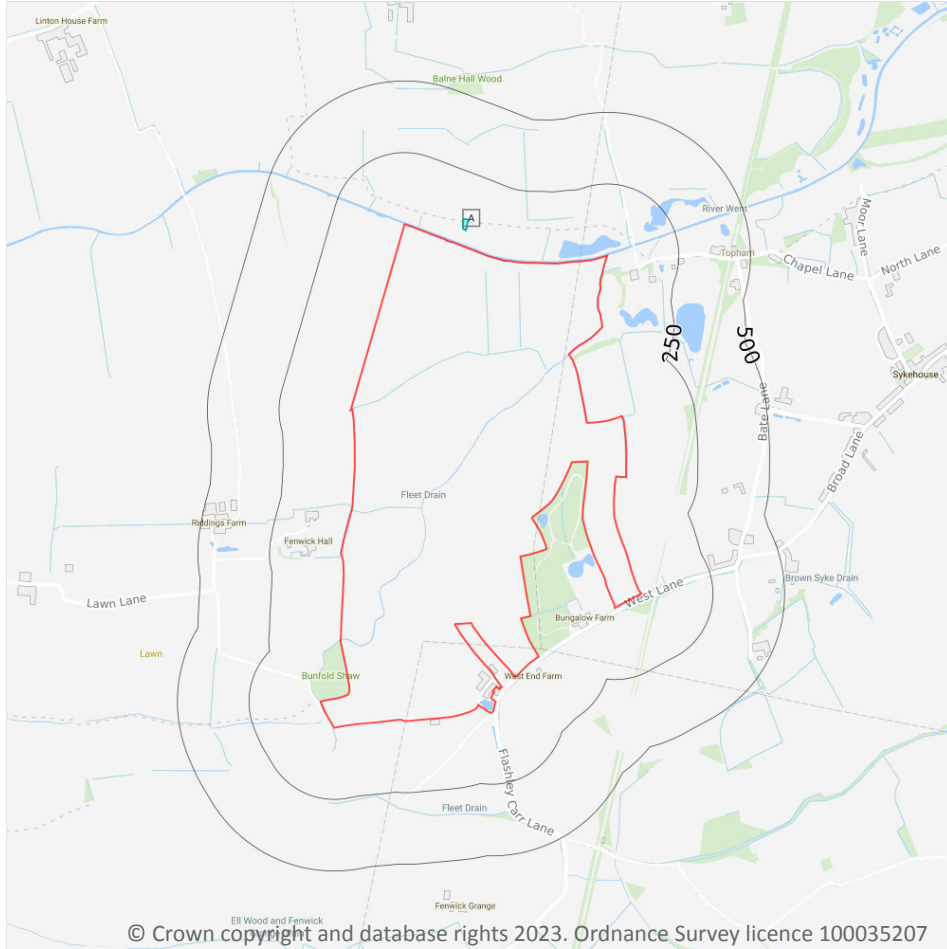
0

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**

### 2.1 Historical industrial land uses

**Records within 500m**

**4**

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 17 >](#)

ID	Location	Land Use	Date	Group ID
A	53m N	Unspecified Pit	1948	1528954
A	55m N	Unspecified Pit	1951	1509066
A	57m N	Unspecified Pit	1907	1540462

ID	Location	Land Use	Date	Group ID
A	57m N	Unspecified Pit	1907	1540462

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

## 2.2 Historical tanks

**Records within 500m**

**0**

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'.

*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**

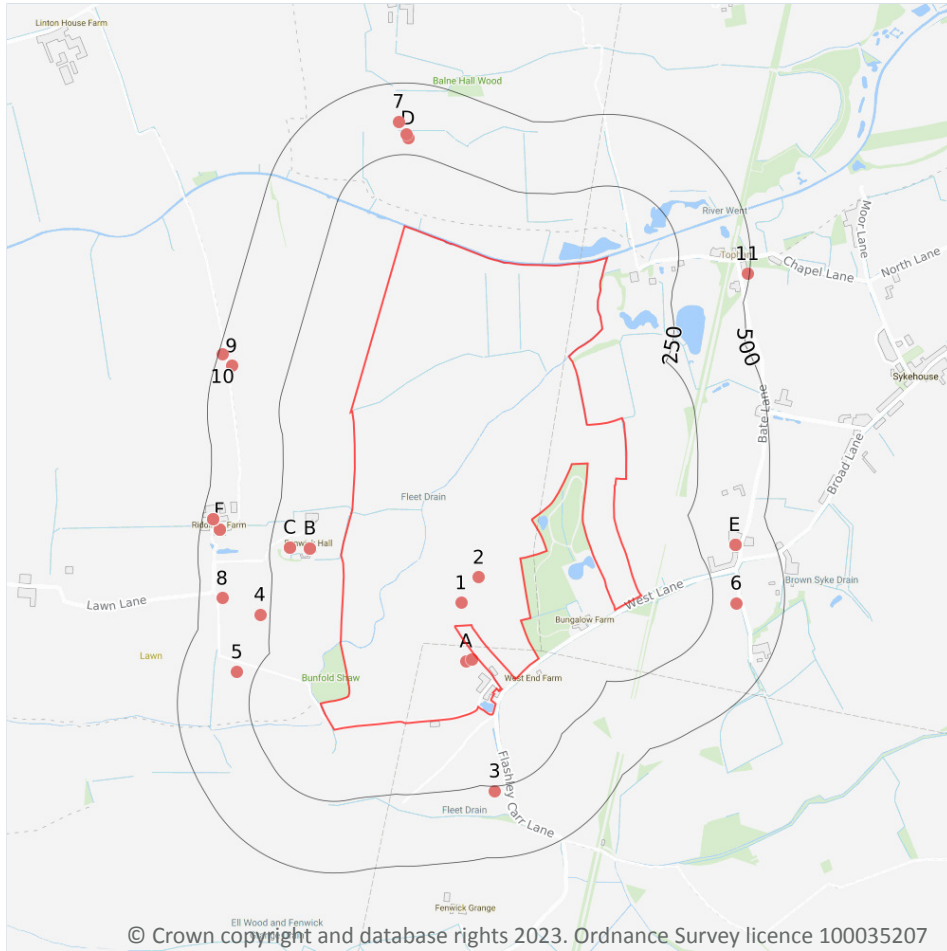
**0**

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

129

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 19 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX185902	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0679U H/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
A	On site	CATFOSS AIRFIELD, BRANDESBURTON, DRIFFIELD, YO25 8EJ	WEX094780	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX290457	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX253128	Storing waste exemption	On a farm	Storage of sludge
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX177839	Disposing of waste exemption	On a farm	Burning waste in the open
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Burning waste in the open
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste in construction
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste for a specified purpose
B	112m SW	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX308807	Disposing of waste exemption	On a farm	Burning waste in the open
C	181m W	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
C	181m W	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
C	181m W	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
C	181m W	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
3	269m S	-	WEX297218	Using waste exemption	Not on a Farm	Use of waste in construction
4	286m SW	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0579U K/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
D	306m N	-	WEX289040	Storing waste exemption	On a farm	Storage of sludge
D	306m N	-	WEX252384	Storing waste exemption	On a farm	Storage of sludge
5	312m SW	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0879U N/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
D	317m N	LEATHAM LODGE, BALNE, GOOLE, DN14 0EA	WEX137917	Storing waste exemption	On a farm	Storage of sludge
6	332m SE	OAKTREE FARM, OAK LANE, SYKEHOUSE, GOOLE, DN14 9AE	WEX179277	Storing waste exemption	On a farm	Storage of sludge
7	364m N	-	WEX218366	Storing waste exemption	On a Farm	Storage of sludge
E	369m E	White Cock Hall Farm Bate Lane GOOLE North Humberside DN14 9BE	EPR/KE5553YV /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
E	369m E	White Cock Hall Farm Bate Lane GOOLE North Humberside DN14 9BE	EPR/KE5553YV /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
E	369m E	White Cock Hall Farm Bate Lane GOOLE North Humberside DN14 9BE	EPR/KE5553YV /A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX169848	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste



ID	Location	Site	Reference	Category	Sub-Category	Description
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX169848	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX169848	Disposing of waste exemption	On a farm	Burning waste in the open
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX011414	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX011414	Disposing of waste exemption	On a farm	Burning waste in the open
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX011414	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX303216	Disposing of waste exemption	On a Farm	Burning waste in the open
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX303216	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
E	371m E	WHITE COCK HALL FARM, BATE LANE, SYKEHOUSE, GOOLE, DN14 9BE	WEX303216	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
8	421m SW	-	WEX290469	Storing waste exemption	On a farm	Storage of sludge
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste in construction
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of baled end-of-life tyres in construction
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Incorporation of ash into soil
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Screening and blending of waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of sheep dip for disposal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste in a biobed or biofilter
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Disposal by incineration
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Burning waste in the open
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in secure containers
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in a secure place
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of sludge
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste derived biodiesel as fuel



ID	Location	Site	Reference	Category	Sub-Category	Description
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste for a specified purpose
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste to manufacture finished goods
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of mulch
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Pig and poultry ash
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of depolluted end-of-life vehicles for vehicle parts
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Recovery of scrap metal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Sorting mixed waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste food
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas



ID	Location	Site	Reference	Category	Sub-Category	Description
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Depositing samples of waste for the purposes of testing or analysing them
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Depositing samples of waste for the purposes of testing or analysing them
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste food
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Sorting mixed waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Recovery of scrap metal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of depolluted end-of-life vehicles for vehicle parts
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Pig and poultry ash



ID	Location	Site	Reference	Category	Sub-Category	Description
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of mulch
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste to manufacture finished goods
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste for a specified purpose
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of sludge
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in a secure place
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in secure containers
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Burning waste in the open
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Disposal by incineration
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice



ID	Location	Site	Reference	Category	Sub-Category	Description
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Screening and blending of waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Incorporation of ash into soil
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste in construction
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Manual treatment of waste
F	434m W	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
9	445m NW	-	WEX253122	Storing waste exemption	On a farm	Storage of sludge
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice





ID	Location	Site	Reference	Category	Sub-Category	Description
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Disposal by incineration
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in a secure place
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Cleaning, washing, spraying or coating relevant waste
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste in a biobed or biofilter
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Screening and blending of waste
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of baled end-of-life tyres in construction
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste derived biodiesel as fuel

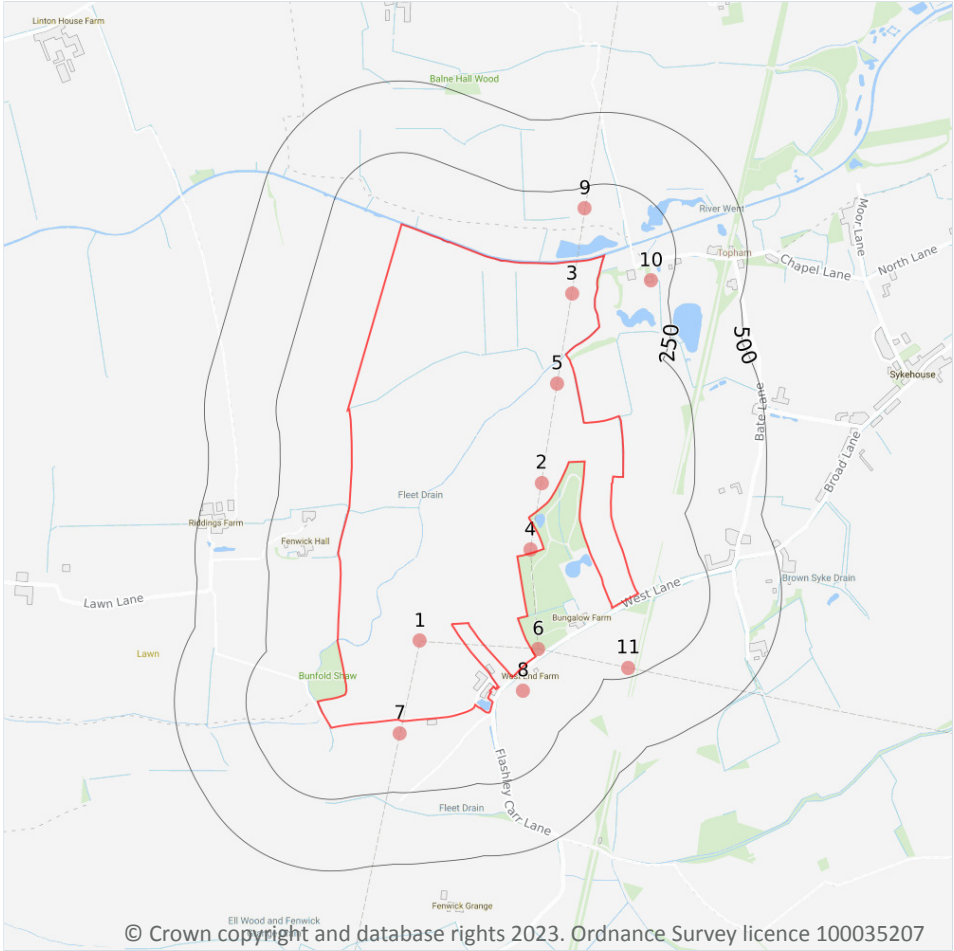


ID	Location	Site	Reference	Category	Sub-Category	Description
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste to manufacture finished goods
F	464m W	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
10	486m NW	-	WEX290461	Storing waste exemption	On a farm	Storage of sludge
11	492m NE	OAKTREE FARM, OAK LANE, SYKEHOUSE, GOOLE, DN14 9AE	WEX144846	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**

### 4.1 Recent industrial land uses

**Records within 250m** **11**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
3	On site	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	On site	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
5	On site	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
6	21m SE	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
7	43m S	Pylon	South Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
8	60m S	Tank	South Yorkshire, DN14	Tanks (Generic)	Industrial Features
9	178m NE	Pylon	North Yorkshire, DN14	Electrical Features	Infrastructure and Facilities
10	181m NE	Pump	South Yorkshire, DN14	Water Pumping Stations	Industrial Features
11	216m SE	Pylon	South Yorkshire, DN14	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

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

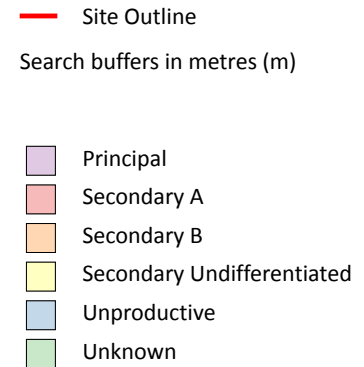
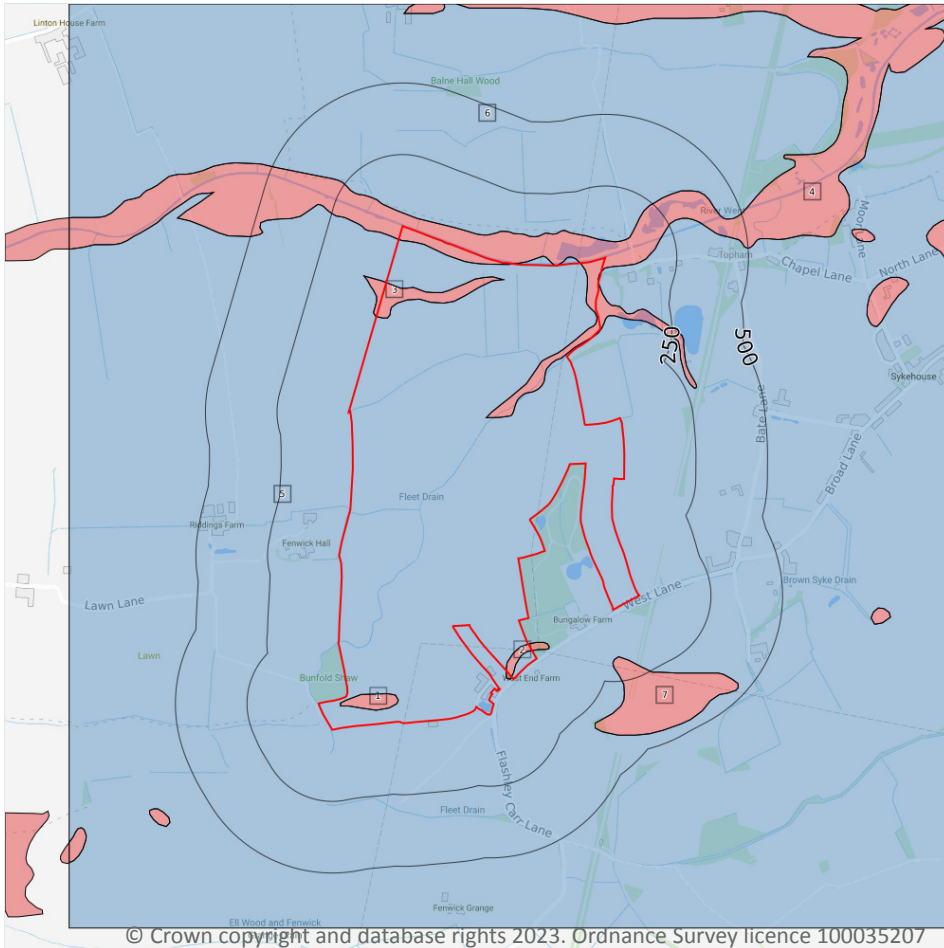
0

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 Hydrogeology - Superficial aquifer



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### 5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 38](#) >

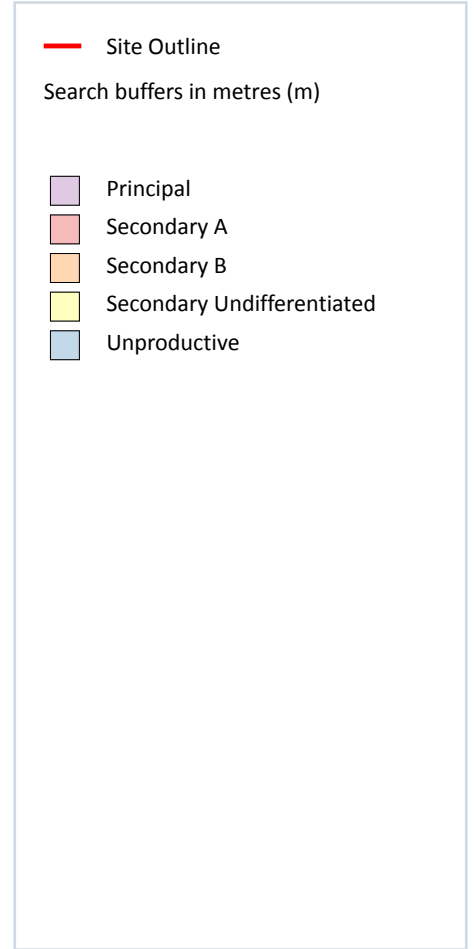
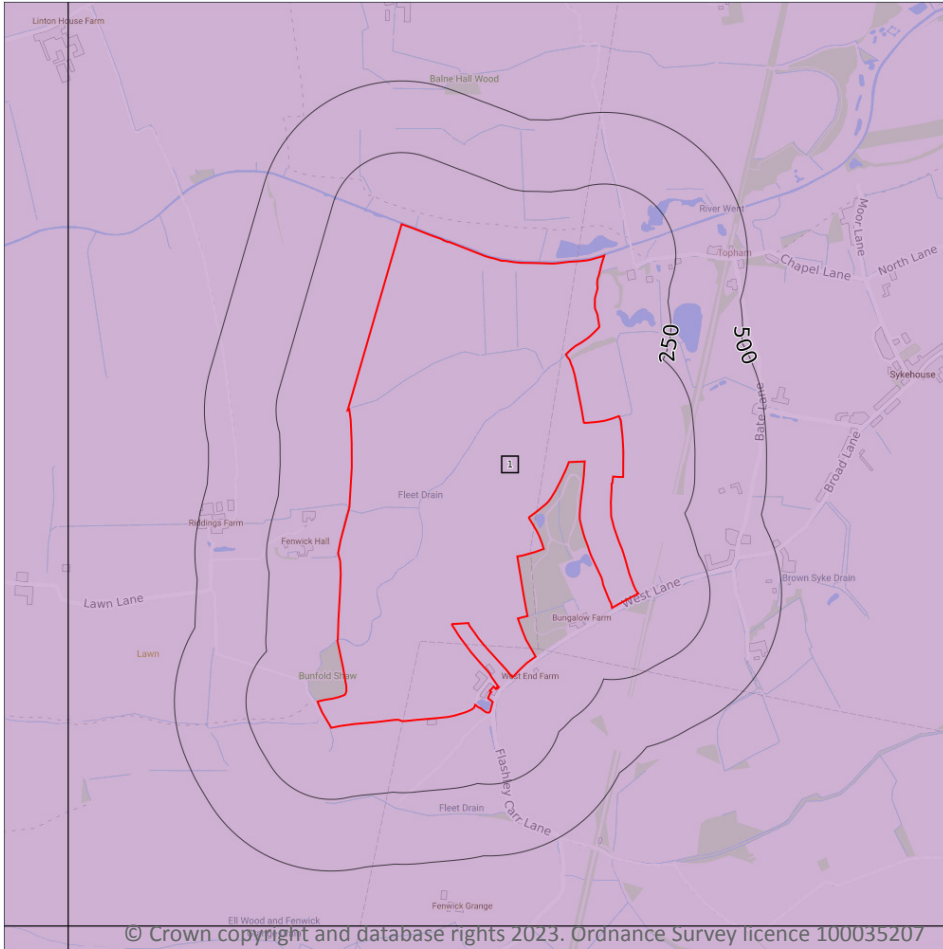
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary 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	<b>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</b>
4	On site	Secondary A	<b>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</b>
5	On site	Unproductive	<b>These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow</b>
6	43m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	164m SE	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



### 5.2 Bedrock aquifer

Records within 500m

1

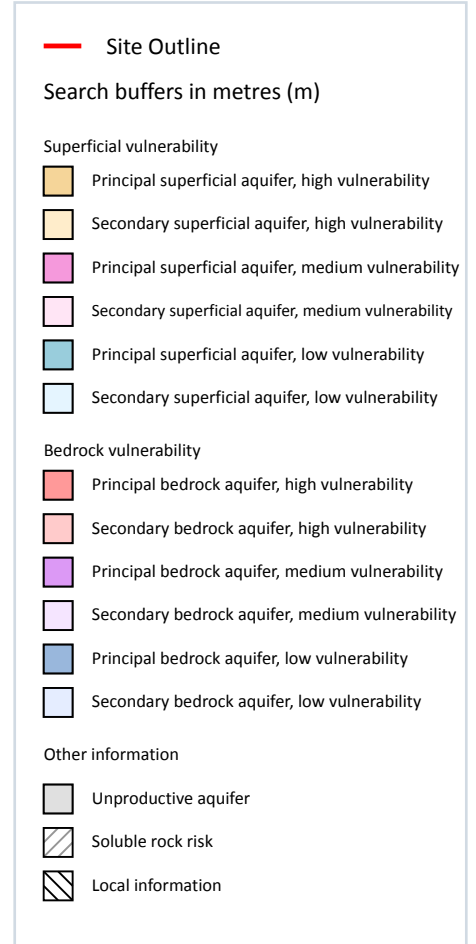
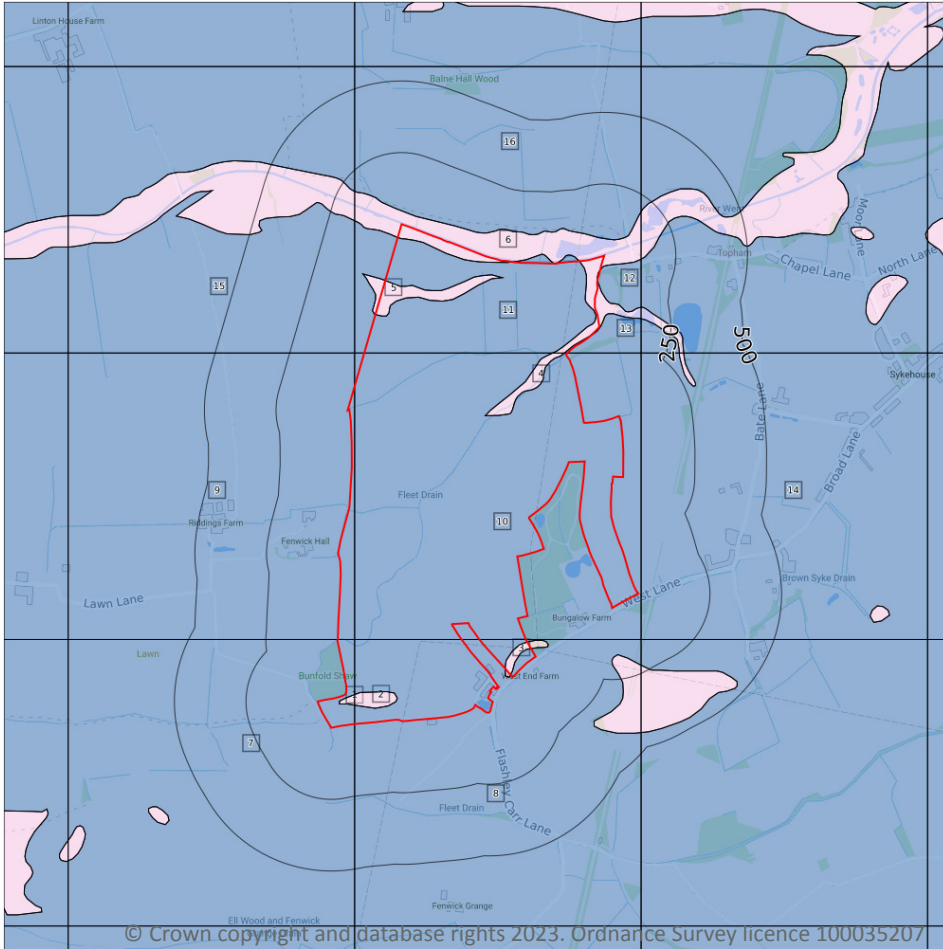
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 40 >](#)

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

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

## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

16

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 41](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	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: Low	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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	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: Low	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: 40- 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 - 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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
7	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: Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
9	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
10	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
11	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
12	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
13	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	9m SE	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: Mixed
15	32m NW	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: Mixed
16	42m N	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: Mixed

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

## 5.4 Groundwater vulnerability- soluble rock risk

**Records on site**

**0**

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

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

## 5.5 Groundwater vulnerability- local information

**Records on site**

**0**

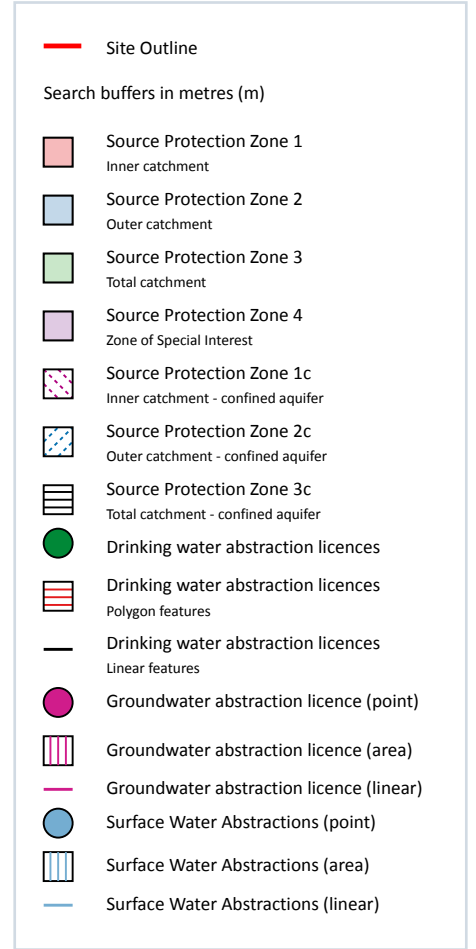
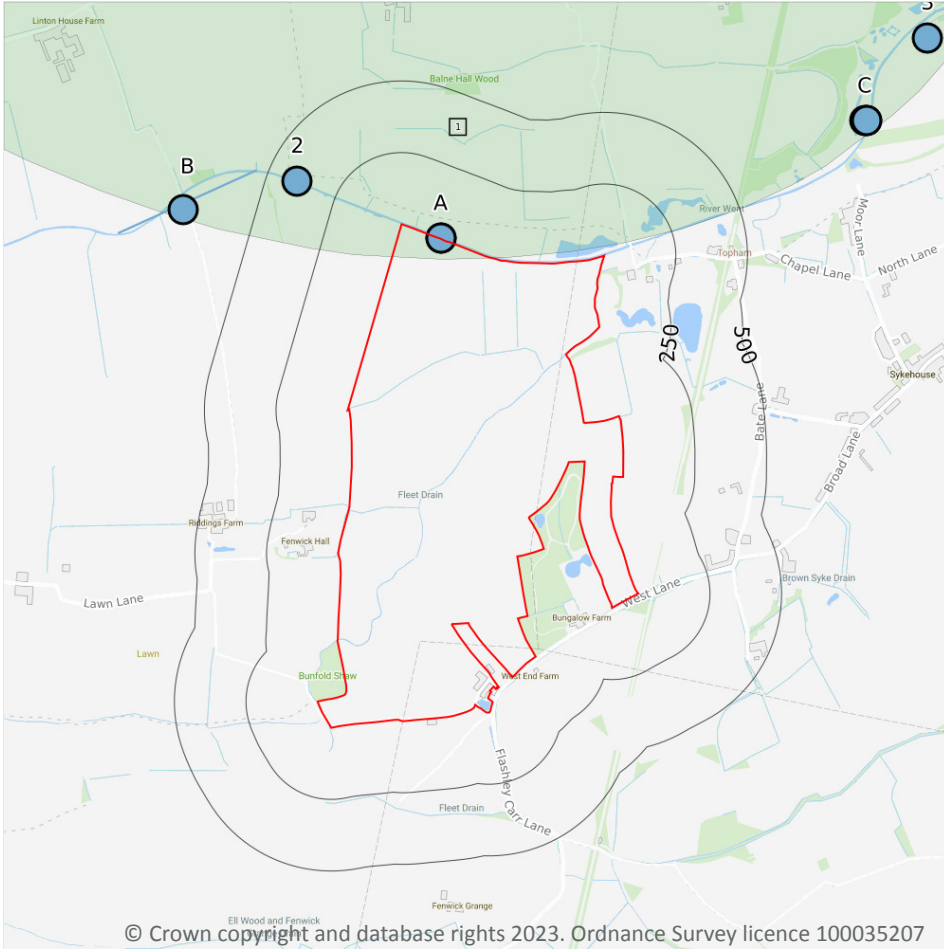
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506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

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





## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

0

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.

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

## 5.7 Surface water abstractions

### Records within 2000m

14

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 45 >](#)

ID	Location	Details	
A	1m N	Status: Historical Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: - Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
A	1m N	Status: Active Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT - BALNE Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: 5378 Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
2	393m NW	Status: Historical Licence No: 2/27/09/173 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: C G BAYSTON & SON Easting: 460800 Northing: 417600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 24/03/1998 Expiry Date: 30/12/2006 Issue No: 100 Version Start Date: 24/03/1998 Version End Date: -
B	539m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT PONT E - FENWICK Data Type: Line Name: C & R Clark Easting: 460174 Northing: 417418	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -



ID	Location	Details	
B	539m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT F - FENWICK Data Type: Line Name: C & R Clark Easting: 460658 Northing: 417638	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
B	747m NW	Status: Historical Licence No: 2/27/09/163 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 460400 Northing: 417500	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 731 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	1023m NE	Status: Historical Licence No: 2/27/09/203 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462780 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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	1030m NE	Status: Historical Licence No: 2/27/09/203 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462788 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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	1030m NE	Status: Active Licence No: 2/27/09/203/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 462788 Northing: 417810	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 Original Application No: NPS/WR/017376 Original Start Date: 01/04/2015 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -



ID	Location	Details	
3	1360m NE	Status: Historical Licence No: 2/27/09/163 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 463000 Northing: 418100	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 731 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: -
-	1491m W	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT C - FENWICK Data Type: Line Name: C & R Clark Easting: 459308 Northing: 417228	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1491m W	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT D - FENWICK Data Type: Line Name: C & R Clark Easting: 459568 Northing: 417302	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1857m N	Status: Historical Licence No: 2/27/18/132 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: AIRE AND CALDER NAVIGATION - EGGBOROUGH GOOLE Data Type: Line Name: Canal and River Trust Easting: 451892 Northing: 423495	Annual Volume (m <sup>3</sup> ): 25000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: - Original Start Date: 01/05/2007 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 05/07/2012 Version End Date: -
-	1857m N	Status: Active Licence No: 2/27/18/132/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: AIRE AND CALDER NAVIGATION - EGGBOROUGH GOOLE Data Type: Line Name: Canal and River Trust Easting: 451892 Northing: 423495	Annual Volume (m <sup>3</sup> ): 25000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: NPS/WR/018157 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -



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

## 5.8 Potable abstractions

**Records within 2000m**

**0**

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

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

## 5.9 Source Protection Zones

**Records within 500m**

**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 45 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment

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

## 5.10 Source Protection Zones (confined aquifer)

**Records within 500m**

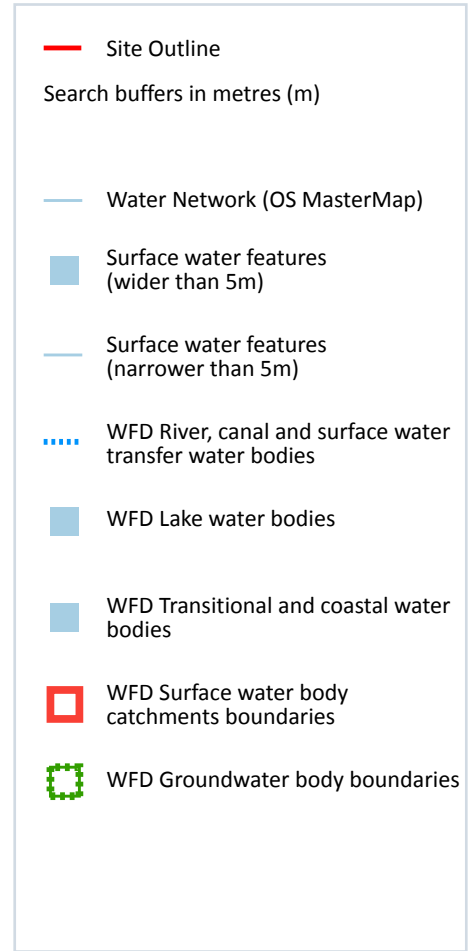
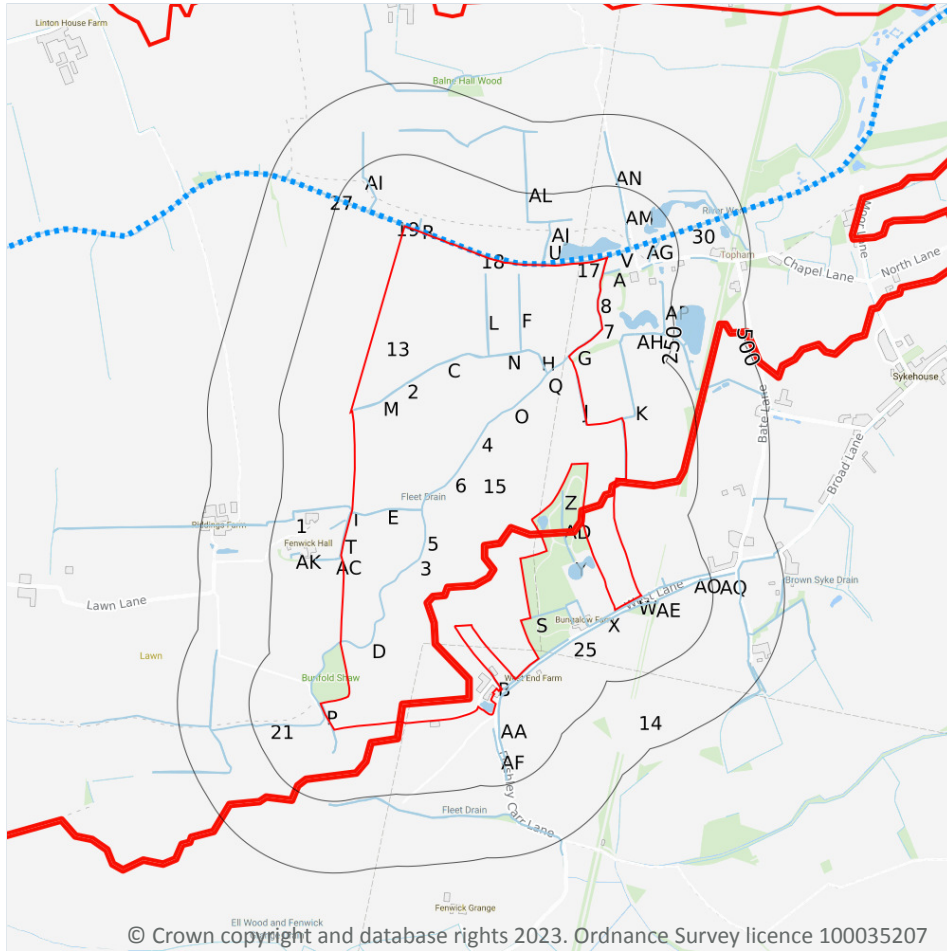
**0**

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

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

124

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 50 >](#)

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.	Underground	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)	Fleet Drain
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
7	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
A	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)	Fleet Drain
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)	-
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 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)	-
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)	Fleet Drain
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)	-
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.	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.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain





ID	Location	Type of water feature	Ground level	Permanence	Name
Q	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
P	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
S	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	1m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
B	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	3m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
18	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
I	3m 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
19	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
U	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	4m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
V	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
W	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	6m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
P	7m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
P	7m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
P	8m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
Z	9m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	9m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
AA	11m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	12m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	13m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
B	13m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	14m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	17m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	19m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	19m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	19m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
W	20m 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
B	22m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	22m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	24m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Z	24m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	25m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	29m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	30m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	31m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	44m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	45m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	47m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	48m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	57m 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
AE	67m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	70m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	70m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	73m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	86m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	87m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	87m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
AE	89m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	92m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	108m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	109m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	111m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	111m 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
S	111m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	114m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AH	116m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	122m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	126m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AG	127m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	129m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	133m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	133m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
AJ	141m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	141m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	143m 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
AK	145m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	148m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	148m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	152m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	171m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	177m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	185m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
30	190m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Went
AO	190m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	197m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AP	197m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	208m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	208m 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
AH	208m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	209m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AQ	214m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	217m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	225m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AH	232m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

**Records within 250m**

**55**

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 50](#) >

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

**Records on site**

**2**

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

Features are displayed on the Hydrology map on [page 50](#) >





ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
13	On site	River	Went from Blowell Drain to the River Don	GB104027064260	Don Lower	Don and Rother
14	On site	River	Don from Mill Dyke to River Ouse	GB104027064243	Don Lower	Don and Rother

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

## 6.4 WFD Surface water bodies

<b>Records identified</b>	<b>2</b>
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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 50 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
16	3m N	River	Went from Blowell Drain to the River Don	<a href="#">GB104027064260</a> ↗	Moderate	Fail	Moderate	2019
-	829m SE	River	Don from Mill Dyke to River Ouse	<a href="#">GB104027064243</a> ↗	Moderate	Fail	Moderate	2019

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

## 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>1</b>
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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 50 >](#)

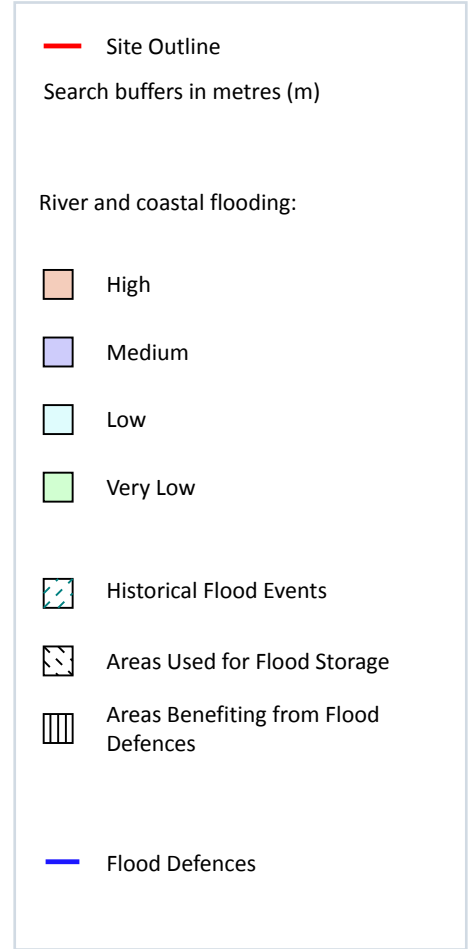
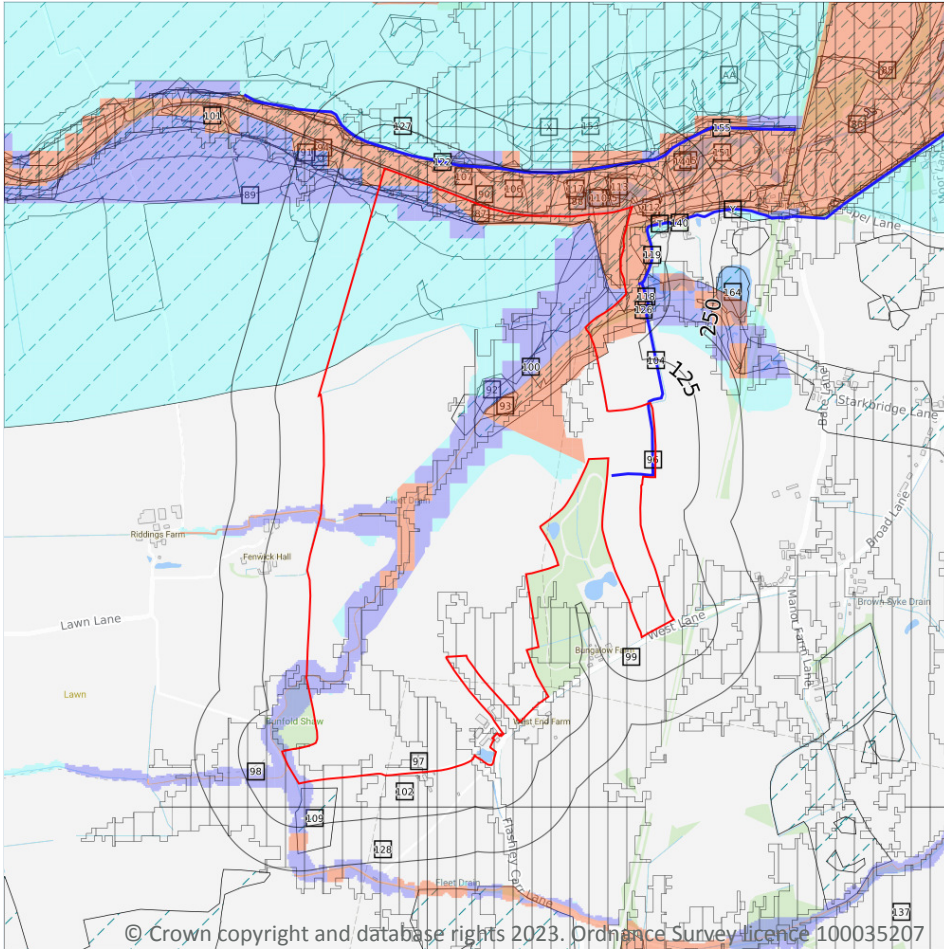


ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
15	On site	Aire & Don Sherwood Sandstone.	<a href="#">GB40401G701000</a> ↗	Poor	Poor	Poor	2019

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



## 7 River and coastal flooding



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

Records within 50m

131

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 63 >](#)

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

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

## 7.2 Historical Flood Events

<b>Records within 250m</b>	<b>27</b>
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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 63](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
M	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
O	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
85	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Other	No data
86	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
87	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
88	On site	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial
89	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial
90	On site	123 February 1995 - River Went	1995-02-01 1995-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
91	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
92	On site	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
93	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
94	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
95	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
105	5m NE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
106	7m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
107	7m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
109	15m SW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
110	16m NE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
112	19m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
113	21m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
117	44m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
141	117m NE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
151	143m NE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
153	147m NE	123 Autumn 2000	2000-11-08 2000-12-04	Main river	Unknown	No data
X	159m N	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
AA	184m NE	123 Autumn 2000	2000-11-08 2000-12-04	Main river	Unknown	No data
164	202m NE	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data

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



### 7.3 Flood Defences

<b>Records within 250m</b>	<b>11</b>
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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 63 >](#)

ID	Location	Update
<b>96</b>	<b>On site</b>	<b>08/11/2022</b>
104	3m E	08/11/2022
R	39m NE	08/11/2022
118	49m NE	08/11/2022
119	49m NE	08/11/2022
122	57m N	08/11/2022
126	64m NE	08/11/2022
T	66m NE	08/11/2022
140	115m NE	08/11/2022
155	152m NE	08/11/2022
Y	164m NE	08/11/2022

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

### 7.4 Areas Benefiting from Flood Defences

<b>Records within 250m</b>	<b>9</b>
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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 63 >](#)

ID	Location	
<b>97</b>	<b>On site</b>	<b>Area benefiting from flood defences</b>
<b>98</b>	<b>On site</b>	<b>Area benefiting from flood defences</b>
<b>99</b>	<b>On site</b>	<b>Area benefiting from flood defences</b>



ID	Location	
100	On site	Area benefiting from flood defences
101	On site	Area benefiting from flood defences
102	1m S	Area benefiting from flood defences
127	65m N	Area benefiting from flood defences
128	67m SW	Area benefiting from flood defences
137	100m S	Area benefiting from flood defences

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

## 7.5 Flood Storage Areas

**Records within 250m**

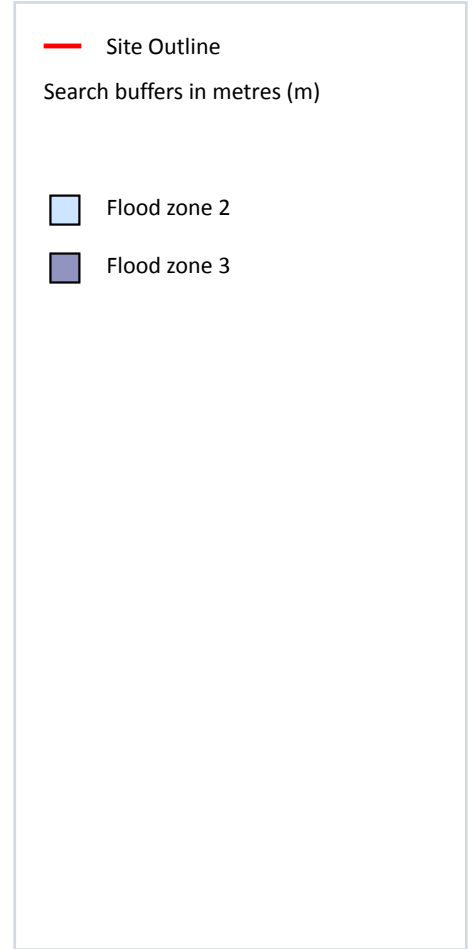
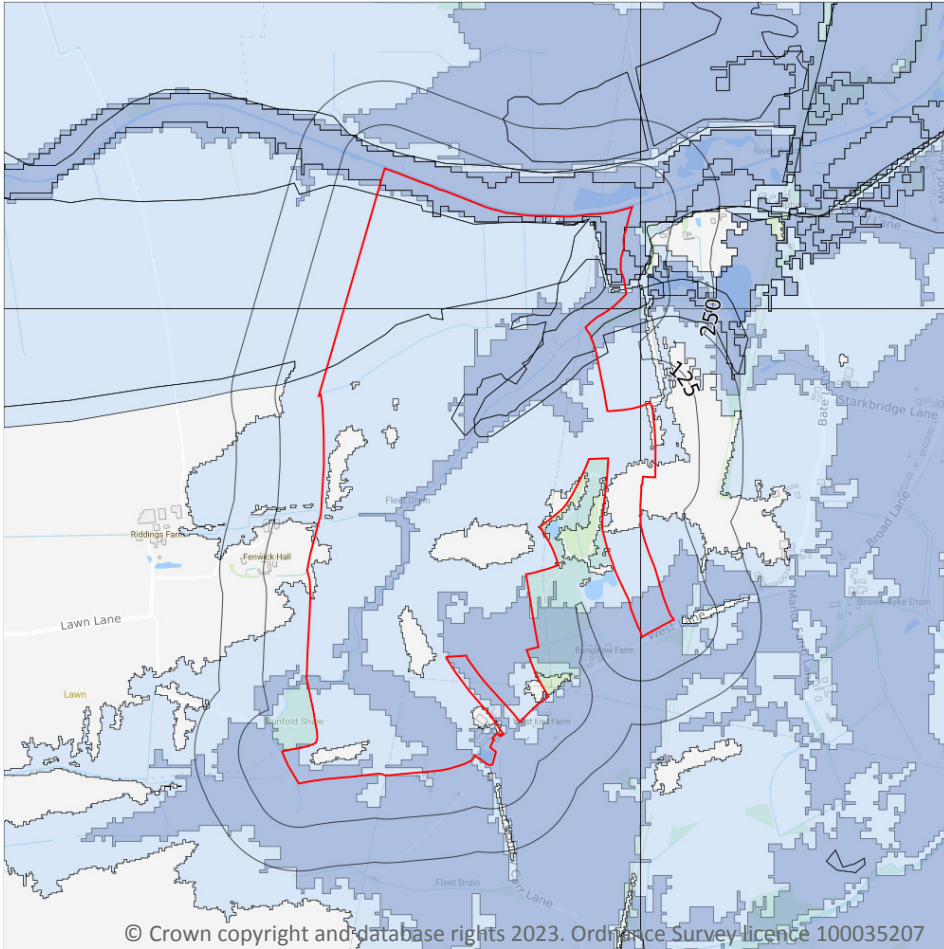
**0**

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

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



## River and coastal flooding - Flood Zones



### 7.6 Flood Zone 2

Records within 50m

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 63](#) >

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

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



## 7.7 Flood Zone 3

### Records within 50m

**1**

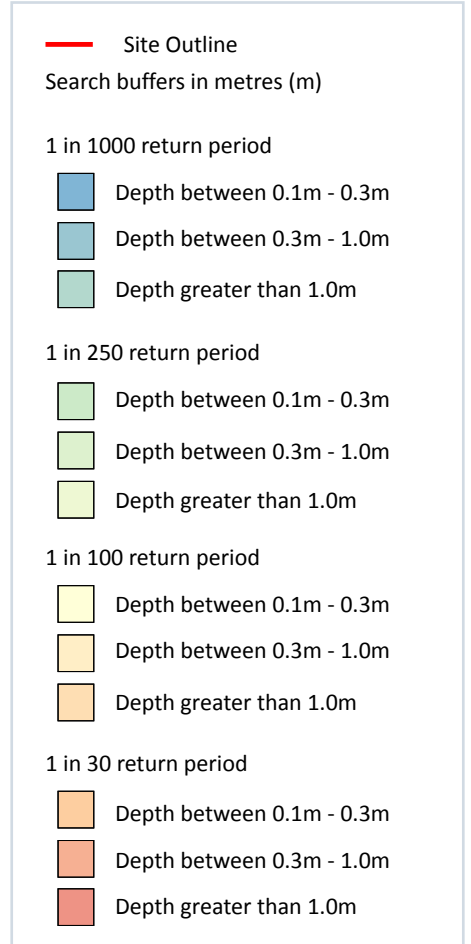
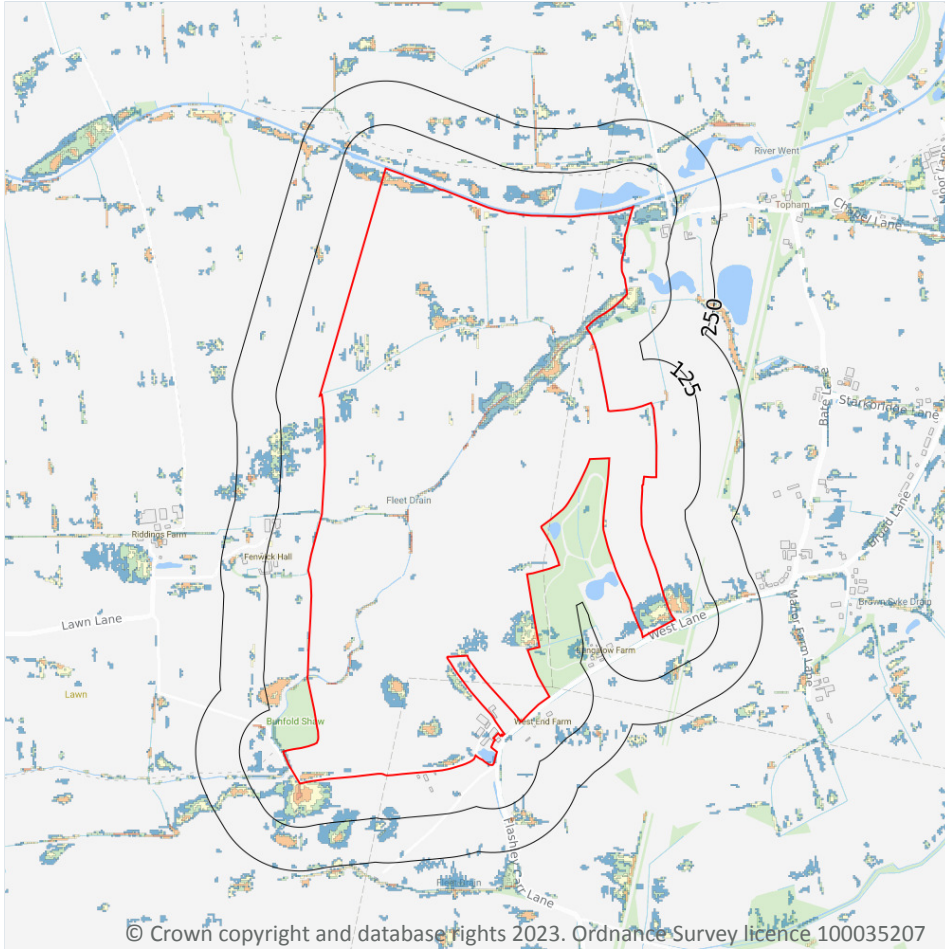
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 63](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

## 8 Surface water flooding



### 8.1 Surface water flooding

Highest risk on site

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 70 >](#)

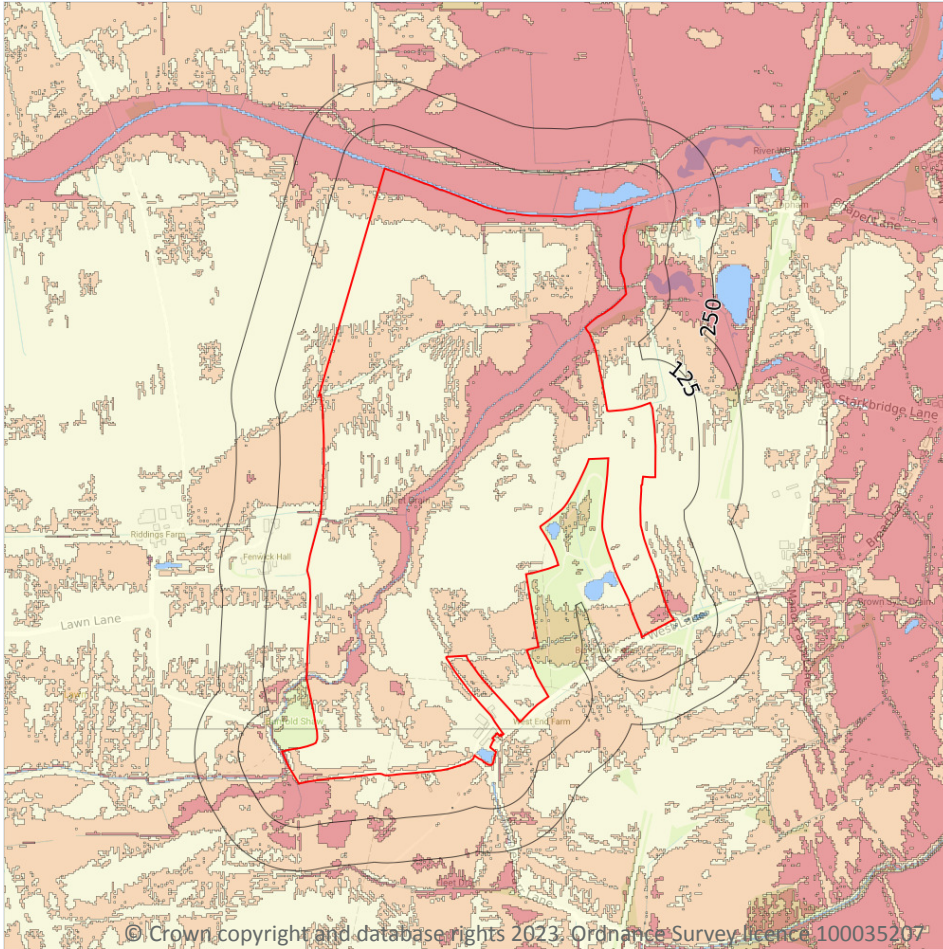
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

*This data is sourced from Ambiental Risk Analytics.*

## 9 Groundwater flooding



### 9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

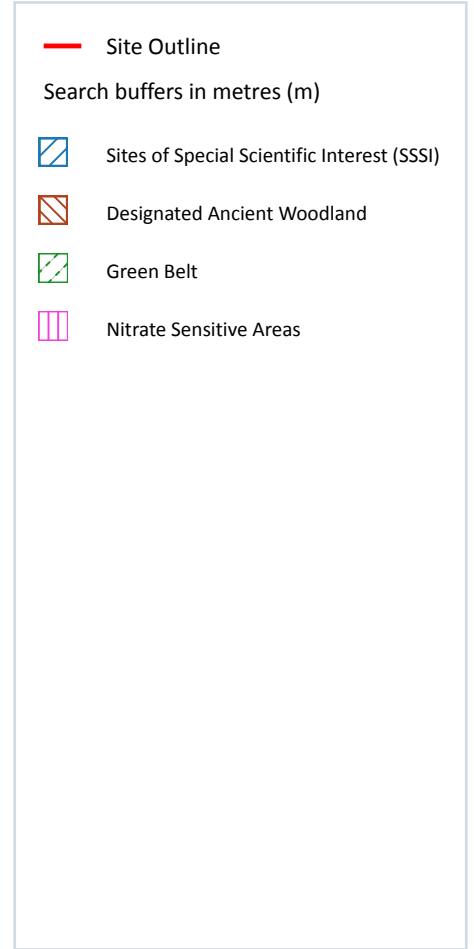
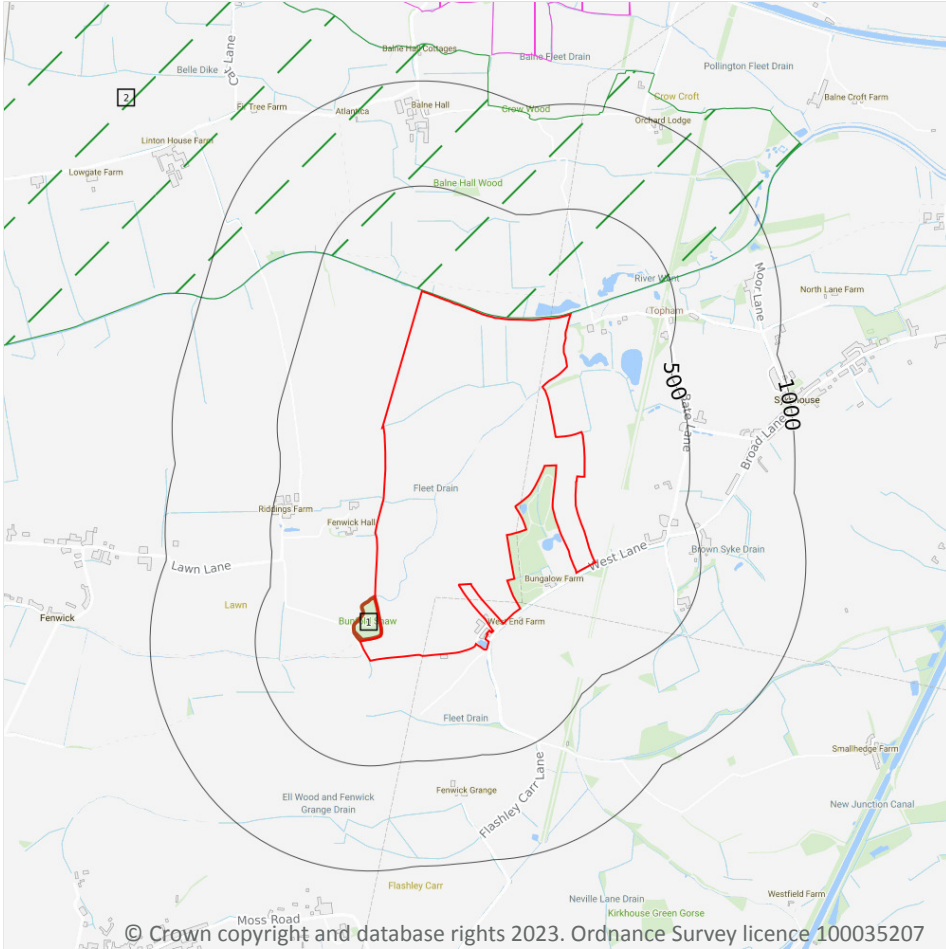
High

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

Features are displayed on the Groundwater flooding map on [page 72 >](#)

*This data is sourced from Ambiental Risk Analytics.*

## 10 Environmental designations



### 10.1 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.*

## 10.2 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.*

## 10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

## 10.4 Special Protection Areas (SPA)

Records within 2000m

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.*

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



## 10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

## 10.7 Designated Ancient Woodland

Records within 2000m

1

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 73 >](#)

ID	Location	Name	Woodland Type
1	On site	Bunfold Shaw	Ancient & Semi-Natural Woodland

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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

## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*



## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 73](#) >

ID	Location	Name	Local Authority name
2	6m N	South and West Yorkshire	Selby
-	1950m W	South and West Yorkshire	Doncaster

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

## 10.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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





## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

1

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).

Features are displayed on the Environmental designations map on [page 73 >](#)

ID	Location	Name	Data source
3	1174m N	Pollington	Natural England

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

4

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

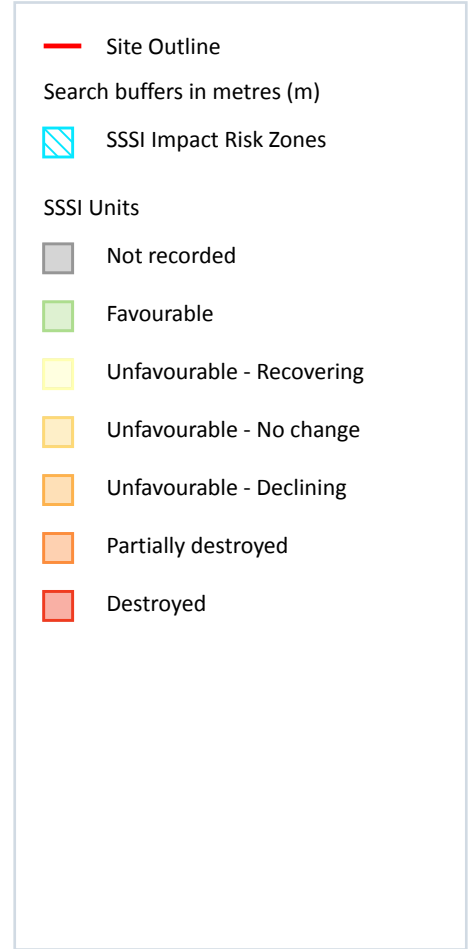
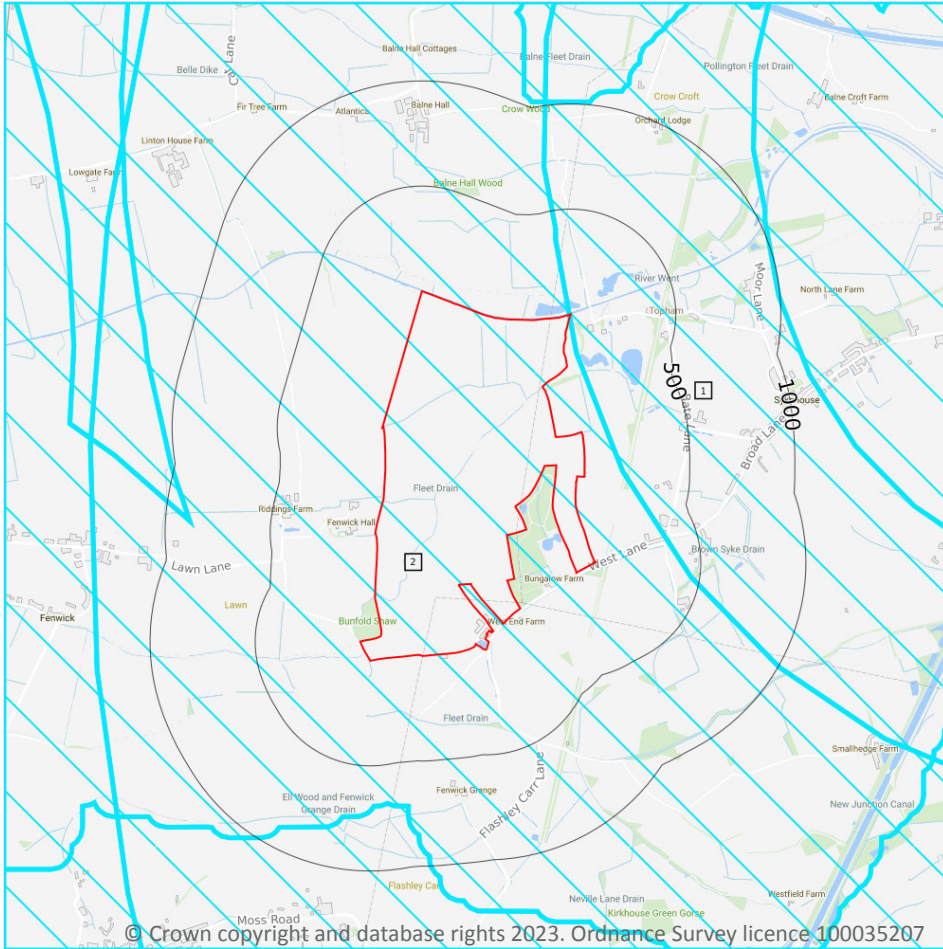
Location	Name	Type	NVZ ID	Status
On site	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
On site	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
78m SW	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing
1754m SE	LOWER DON NVZ	Surface Water	298	Existing



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



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

Records on site

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 79](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>

*This data is sourced from Natural England.*

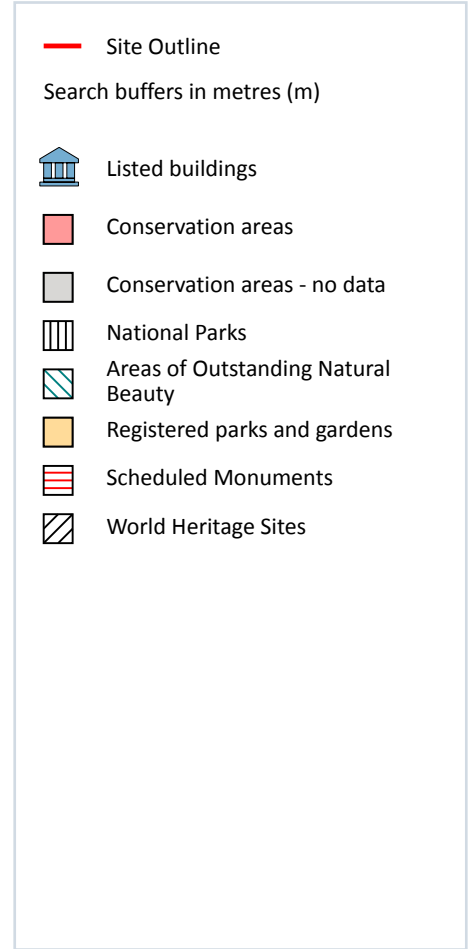
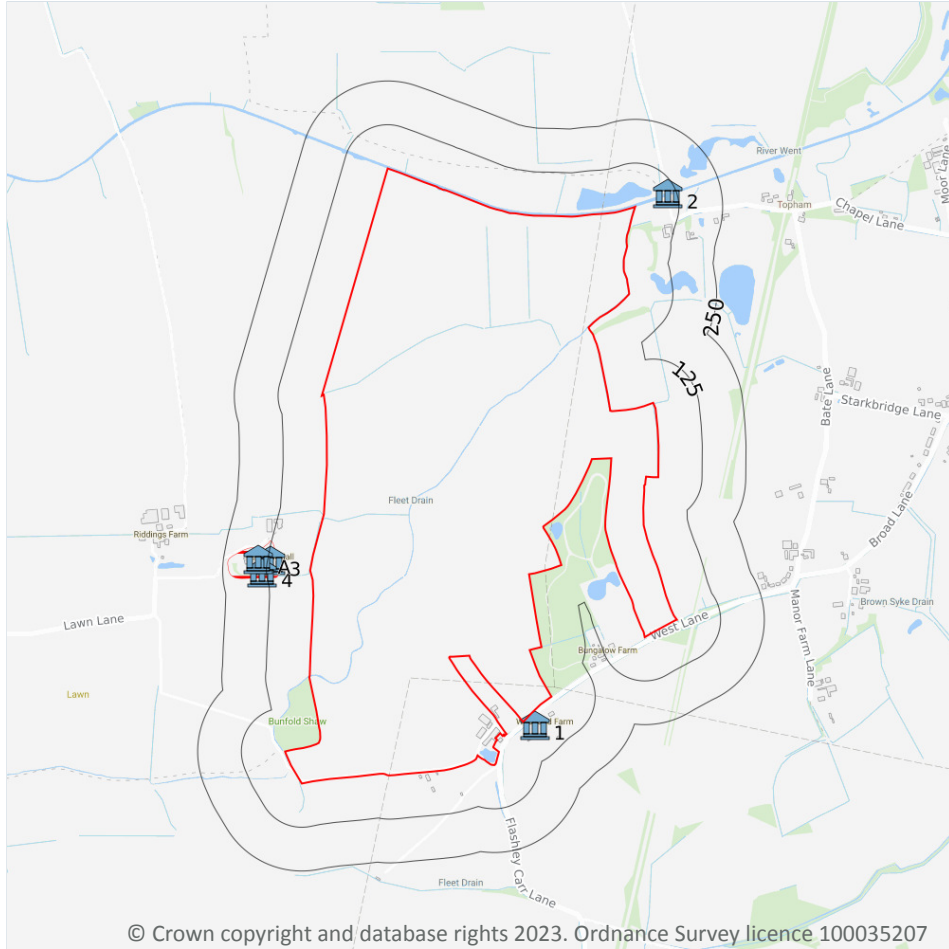
## 10.18 SSSI Units

<b>Records within 2000m</b>	<b>0</b>
-----------------------------	----------

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.*

## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

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

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

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

## 11.3 National Parks

Records within 250m

0

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

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

## 11.4 Listed Buildings

Records within 250m

5

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 81 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	30m S	Dovecote And Outbuilding Immediately To West Of West End Cottage	II	1192918	29/09/1987
2	100m NE	Topham Ferry Bridge	II	1316361	09/04/1987
3	118m SW	Barn And Attached Outbuildings Approximately 25 Metres To South-East Of Fenwick Hall	II	1151612	29/09/1987
4	138m SW	Shelter Shed And Attached Loose Box Forming South East Side Of Farmyard At Fenwick Hall	II	1151613	29/09/1987



ID	Location	Name	Grade	Reference Number	Listed date
A	151m SW	Fenwick Hall	II	1314800	29/09/1987

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

## 11.5 Conservation Areas

**Records within 250m**

**0**

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

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

## 11.6 Scheduled Ancient Monuments

**Records within 250m**

**1**

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.

Features are displayed on the Visual and cultural designations map on [page 81 >](#)

ID	Location	Ancient monument name	Reference number
A	91m SW	Fenwick Hall moated site	1012459

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

## 11.7 Registered Parks and Gardens

**Records within 250m**

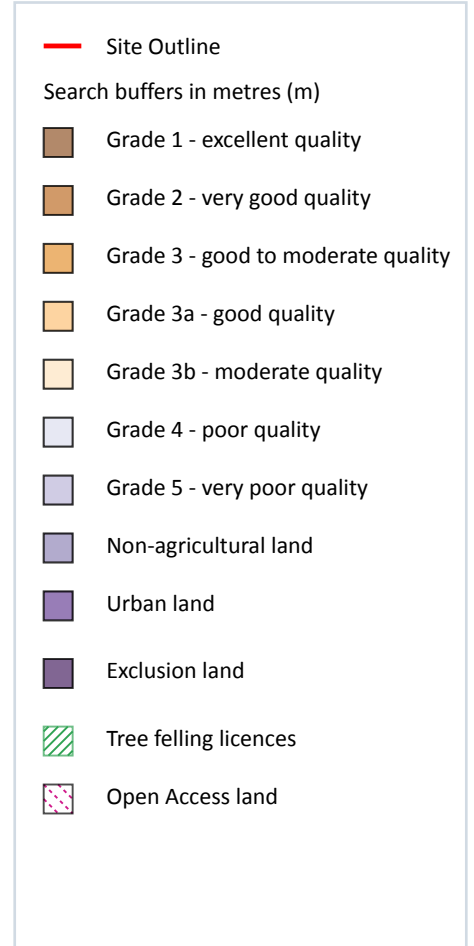
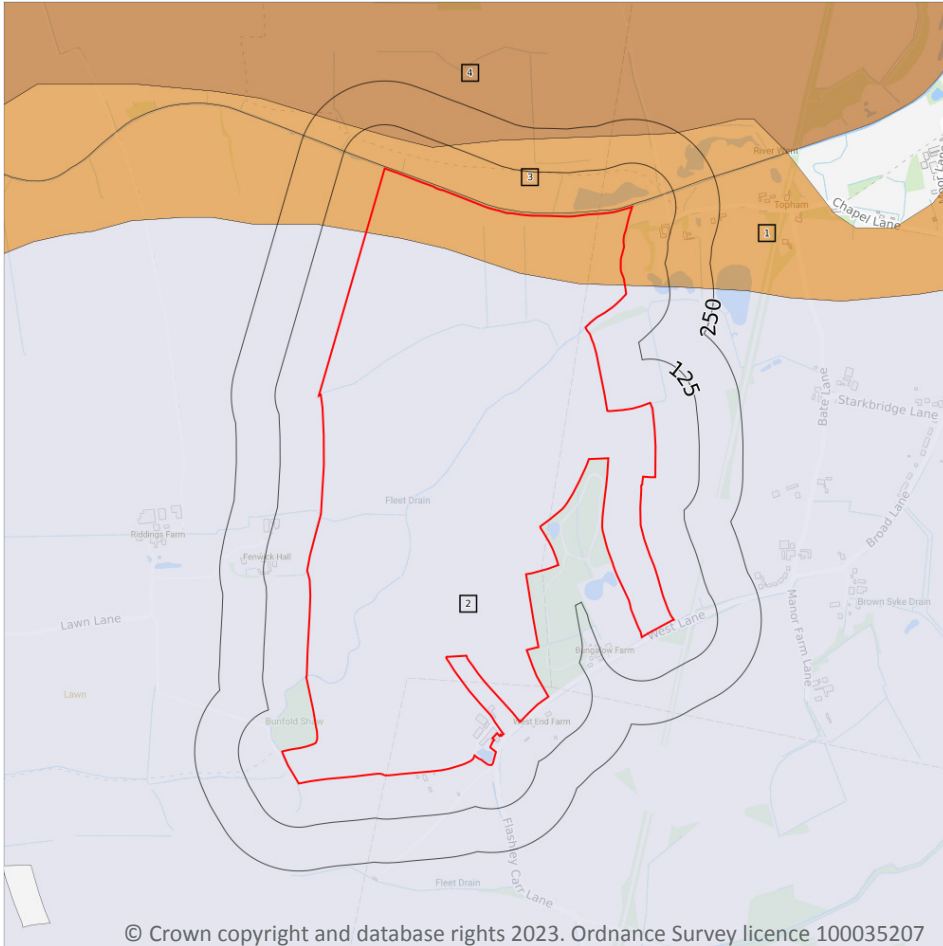
**0**

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

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



## 12 Agricultural designations



### 12.1 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 84](#) >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



ID	Location	Classification	Description
2	On site	Grade 4	<b>Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.</b>
3	6m N	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
4	92m N	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.*

## 12.2 Open Access Land

**Records within 250m**

**0**

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

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

## 12.3 Tree Felling Licences

**Records within 250m**

**0**

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

*This data is sourced from the Forestry Commission.*



## 12.4 Environmental Stewardship Schemes

Records within 250m

4

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
7m NE	AG00397516	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
103m NE	AG00397516	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
120m SE	AG00484732	Entry Level plus Higher Level Stewardship	01/11/2013	31/10/2023
191m E	AG00397516	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

4

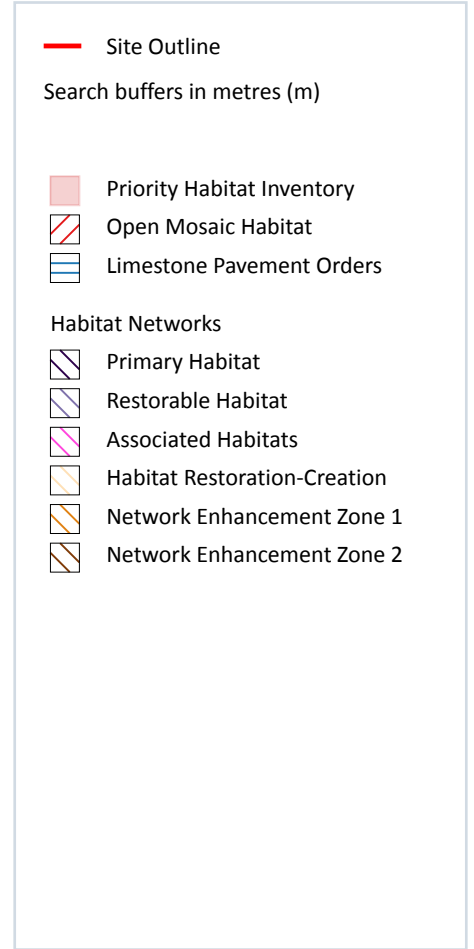
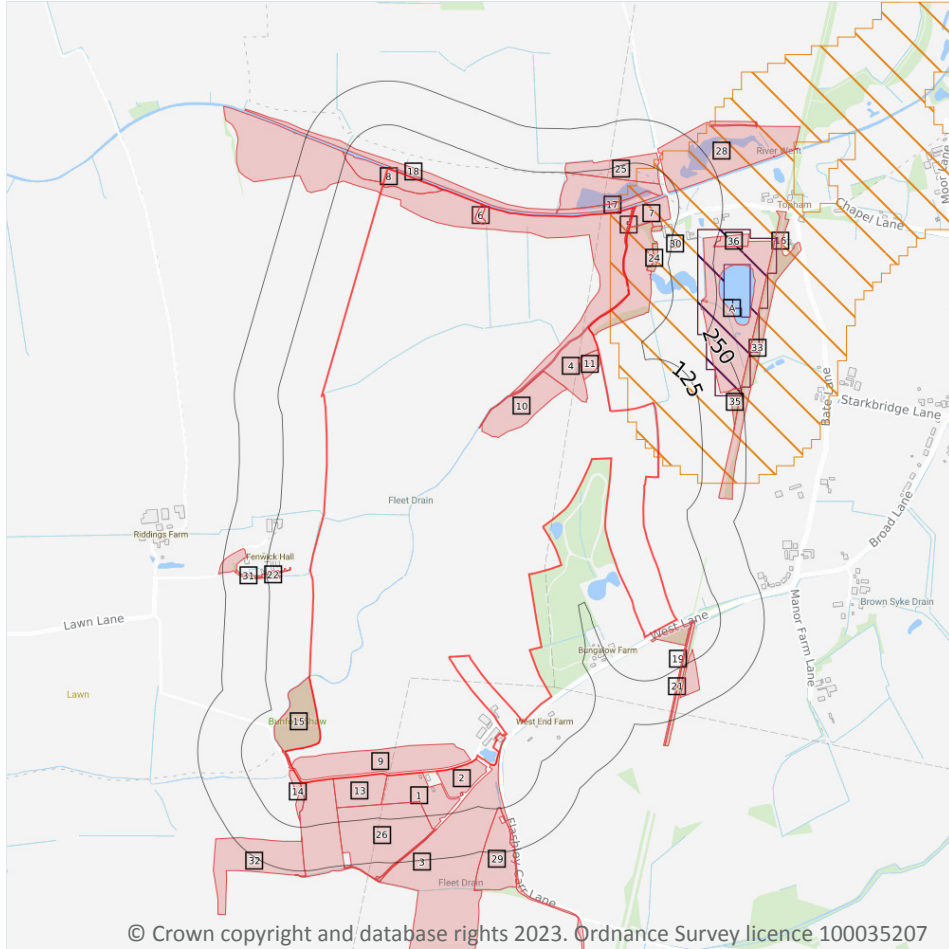
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
<b>On site</b>	<b>646534</b>	<b>Countryside Stewardship (Middle Tier)</b>	<b>01/01/2019</b>	<b>31/12/2023</b>
4m SW	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
39m S	490468	Countryside Stewardship (Middle Tier)	01/01/2016	31/12/2021
94m NW	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

*This data is sourced from Natural England.*



## 13 Habitat designations



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### 13.1 Priority Habitat Inventory

Records within 250m

36

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 87](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

ID	Location	Main Habitat	Other habitats
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
5	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
9	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
10	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
11	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
12	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
13	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
14	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
15	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	7m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); Additional: LFENS (FEP 50%); LDAGR (FEP 50%); GQSIG (FEP 50%)
18	7m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
19	17m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	19m N	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%); LFENS (FEP 50%); LDAGR (FEP 50%); GQSIG (FEP 50%)
21	43m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	55m SW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
23	62m NE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset



ID	Location	Main Habitat	Other habitats
24	62m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
25	73m NE	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%); LFENS (FEP 50%); LDAGR (FEP 50%); GQSIG (FEP 50%)
26	81m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
27	97m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	103m NE	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%); LFENS (FEP 50%); LMEAD (FEP 50%)
29	122m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
30	128m NE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
31	139m SW	Reedbeds	Main habitat: RBEDS (INV > 50%)
32	153m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
33	181m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	186m W	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
A	191m E	Lowland meadows	Main habitat: LMEAD (FEP + HLS)
35	214m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
36	247m NE	Lowland meadows	Main habitat: LMEAD (FEP + HLS)

This data is sourced from Natural England.

## 13.2 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 87 >](#)

ID	Location	Type	Habitat
16	On site	Network Enhancement Zone 1	Not specified
A	174m E	Primary Habitat	Lowland meadows



*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

Records within 250m

0

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

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

Records within 250m

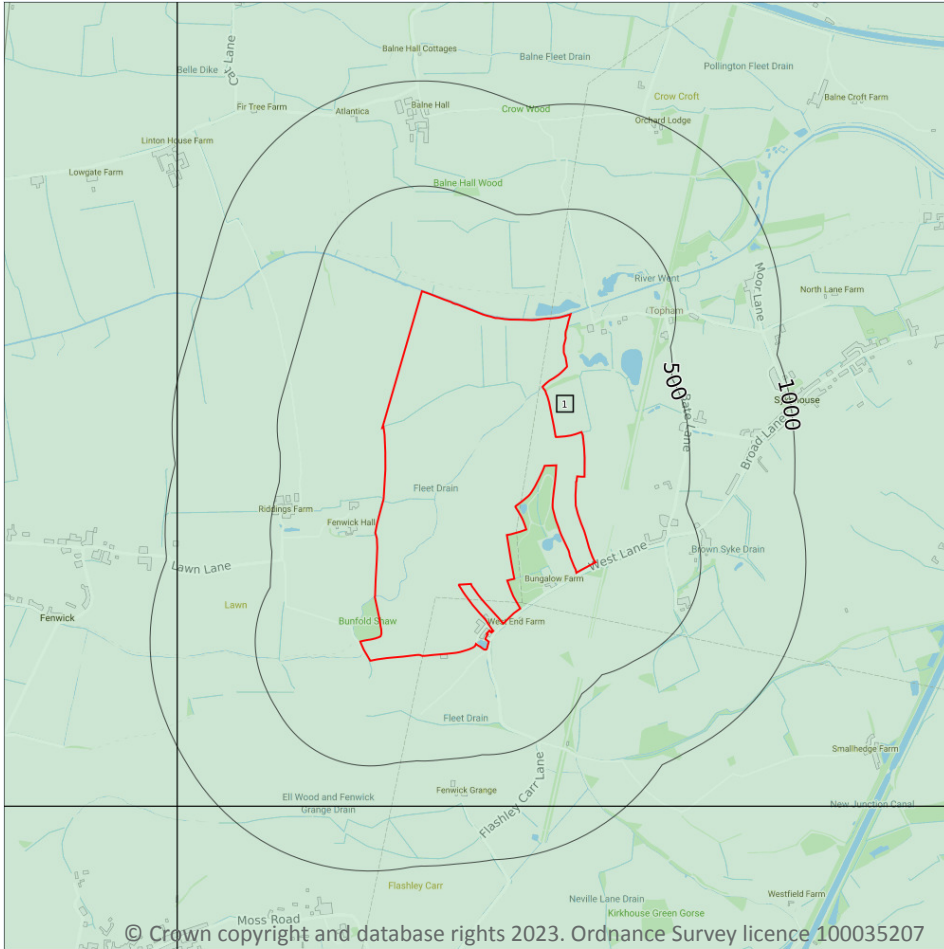
0

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

*This data is sourced from Natural England.*



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



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 91](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE61NW

This data is sourced from the British Geological Survey.

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

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

Records within 500m

0

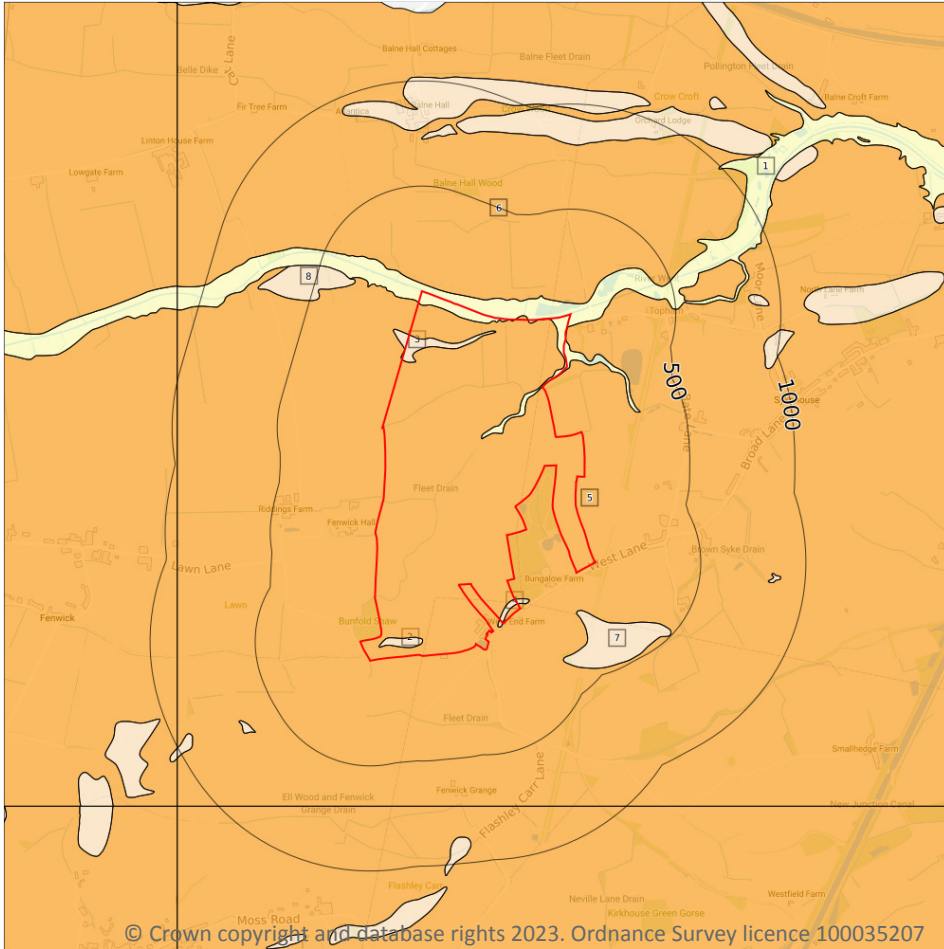
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

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





## Geology 1:10,000 scale - Superficial



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

### 14.3 Superficial geology (10k)

Records within 500m

8

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 93](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	BREI-S	Brighton Sand Formation - Sand	Sand
3	On site	BREI-S	Brighton Sand Formation - Sand	Sand
4	On site	BREI-S	Brighton Sand Formation - Sand	Sand



ID	Location	LEX Code	Description	Rock description
5	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
6	34m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
7	180m SE	BREI-S	Brighton Sand Formation - Sand	Sand
8	317m NW	BREI-S	Brighton Sand Formation - Sand	Sand

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

## 14.4 Landslip (10k)

**Records within 500m**

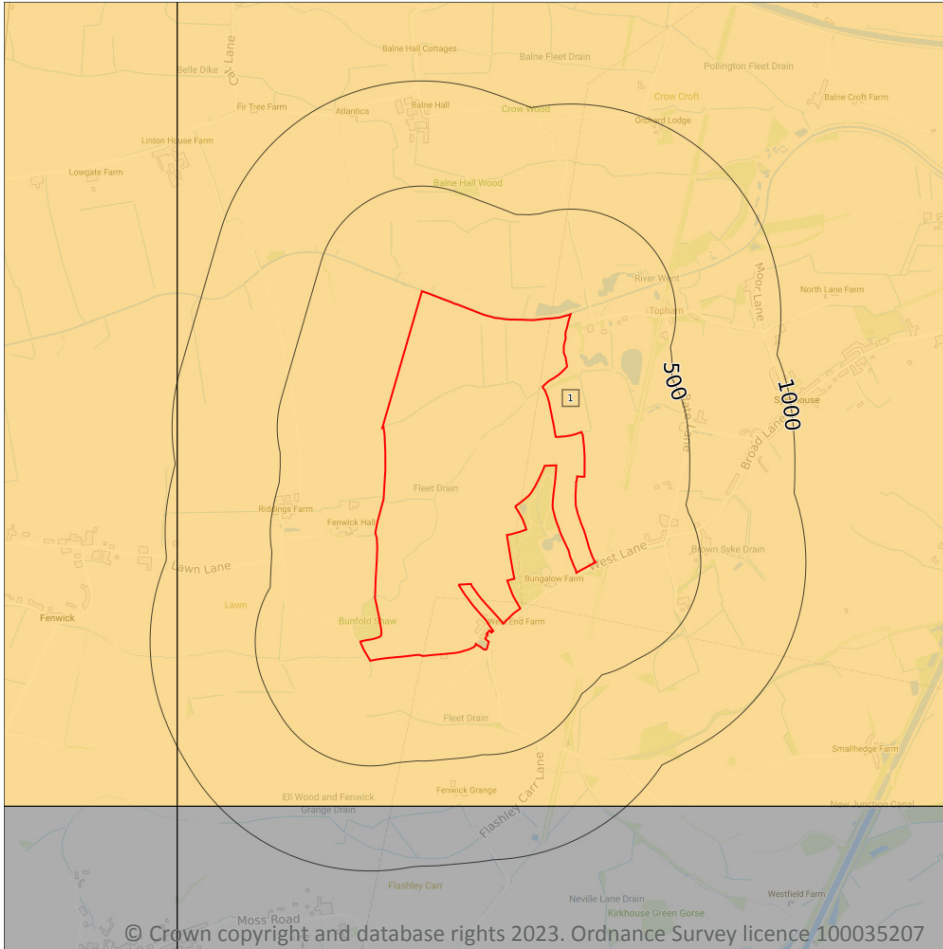
**0**

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

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



## Geology 1:10,000 scale - Bedrock



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

### 14.5 Bedrock geology (10k)

Records within 500m

1

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 95](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

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

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

Records within 500m

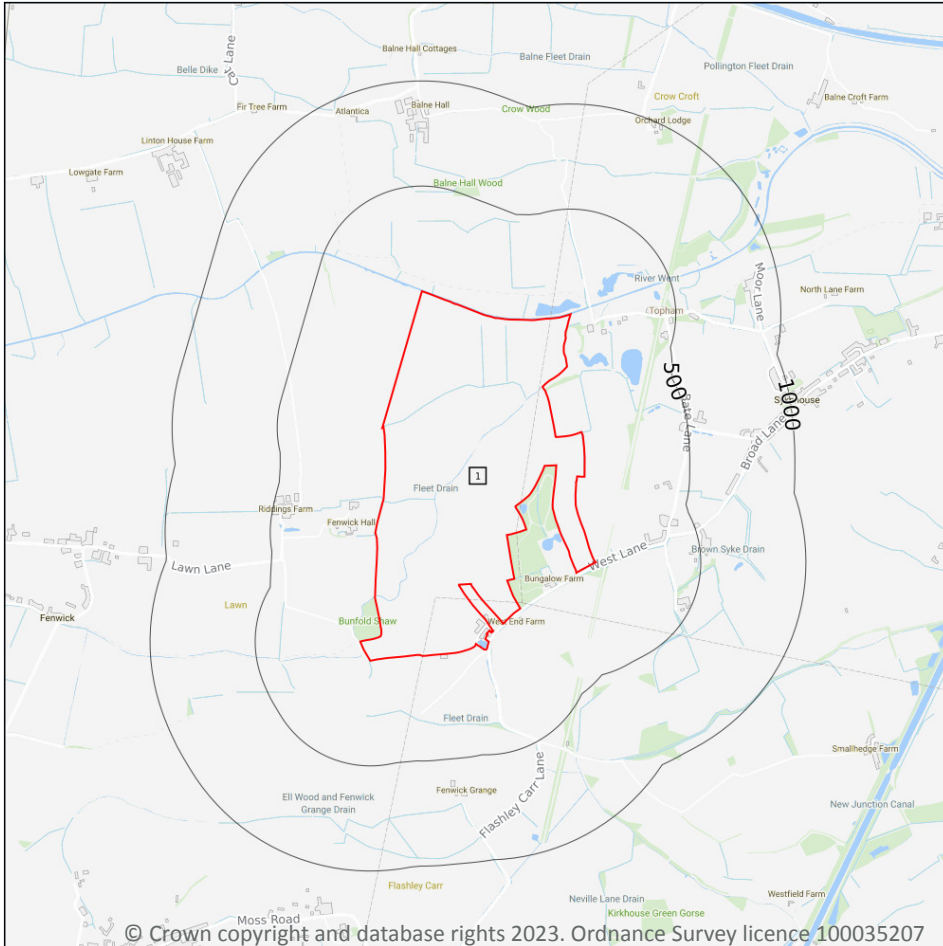
0

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

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



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 97](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	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

### 15.2 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.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

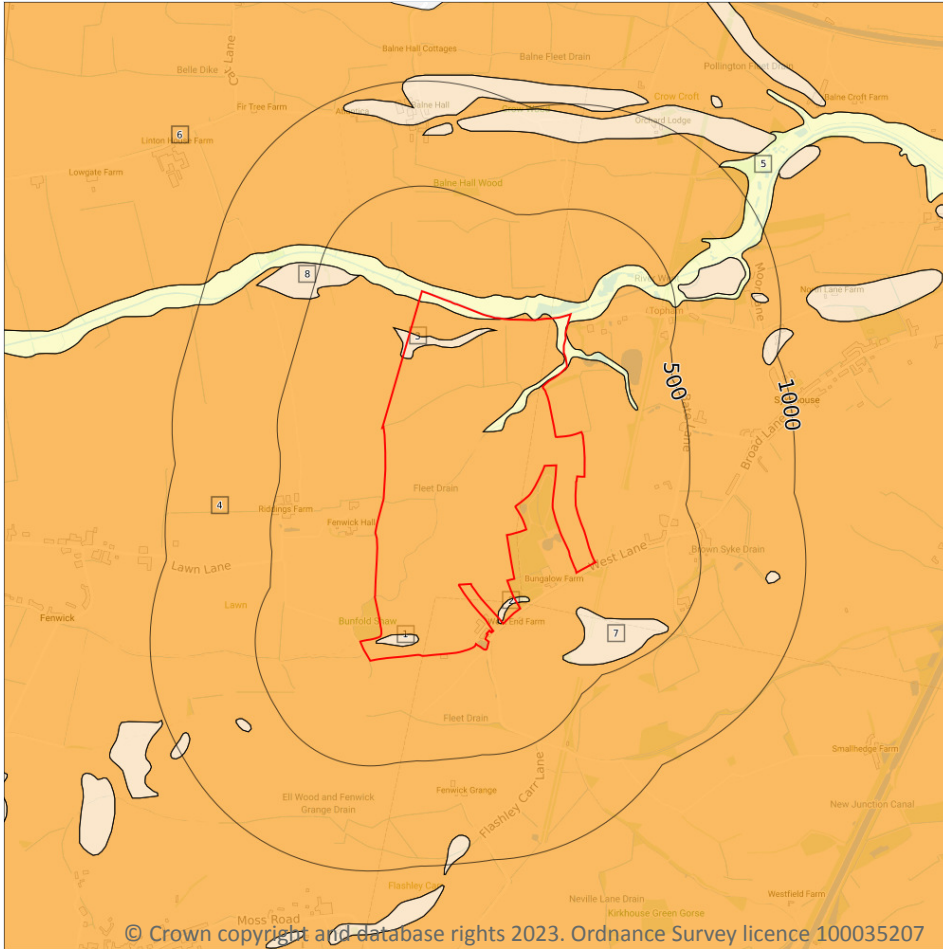
0

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

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



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

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 99](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BREI-S	BRIGHTON SAND FORMATION	SAND
2	On site	BREI-S	BRIGHTON SAND FORMATION	SAND
3	On site	BREI-S	BRIGHTON SAND FORMATION	SAND
4	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY



ID	Location	LEX Code	Description	Rock description
5	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	43m N	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
7	164m SE	BREI-S	BREIGHTON SAND FORMATION	SAND
8	306m NW	BREI-S	BREIGHTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

## 15.5 Superficial permeability (50k)

Records within 50m

6

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any 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
42m N	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.

## 15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.





## 15.7 Landslip permeability (50k)

Records within 50m

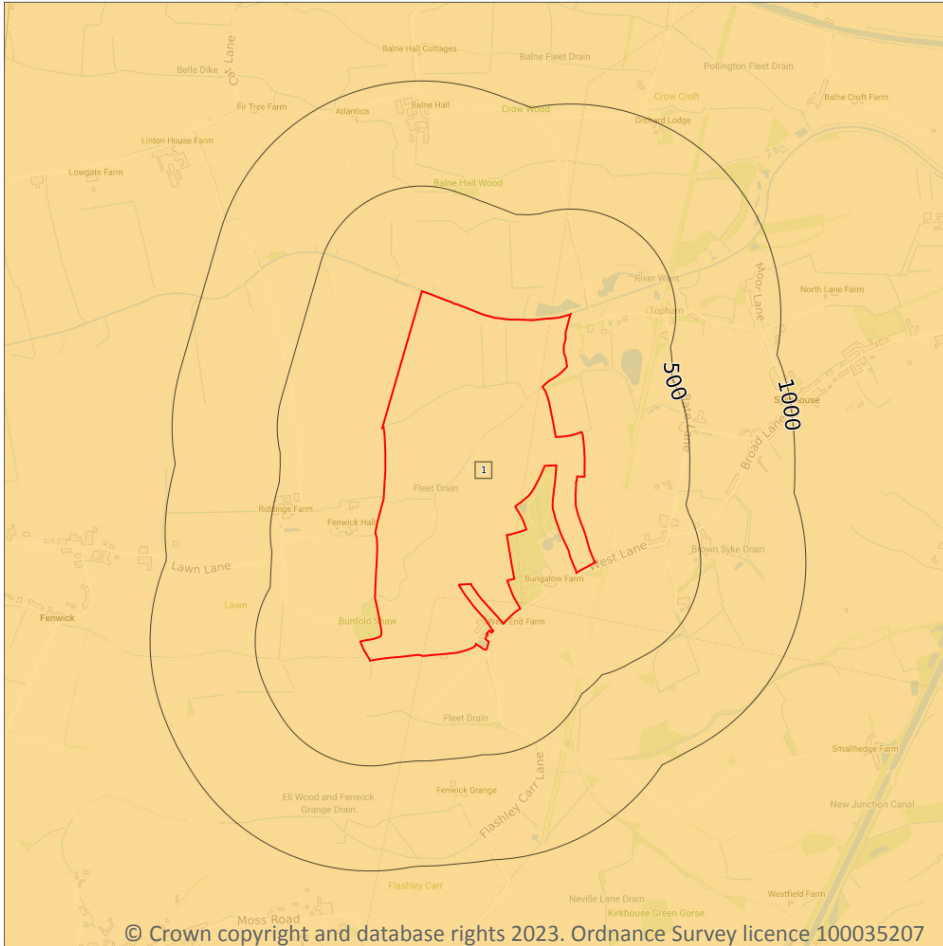
0

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

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



## Geology 1:50,000 scale - Bedrock



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

### 15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 102 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

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

## 15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	High

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

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

Records within 500m

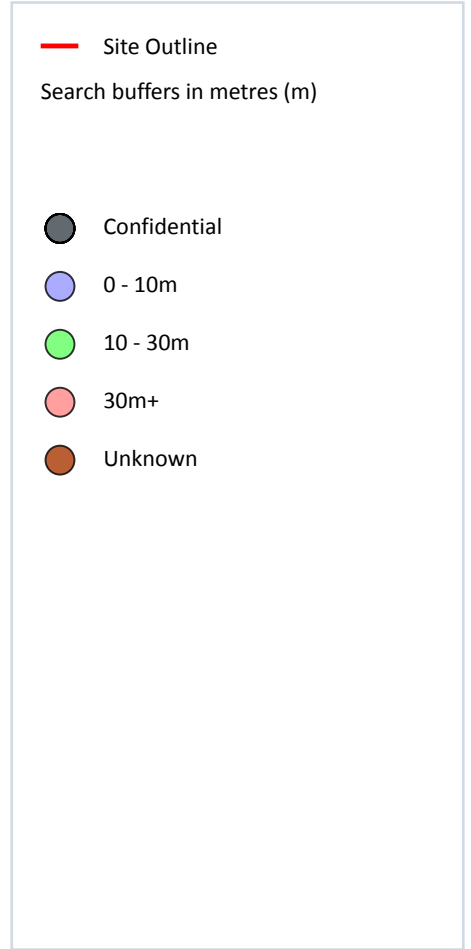
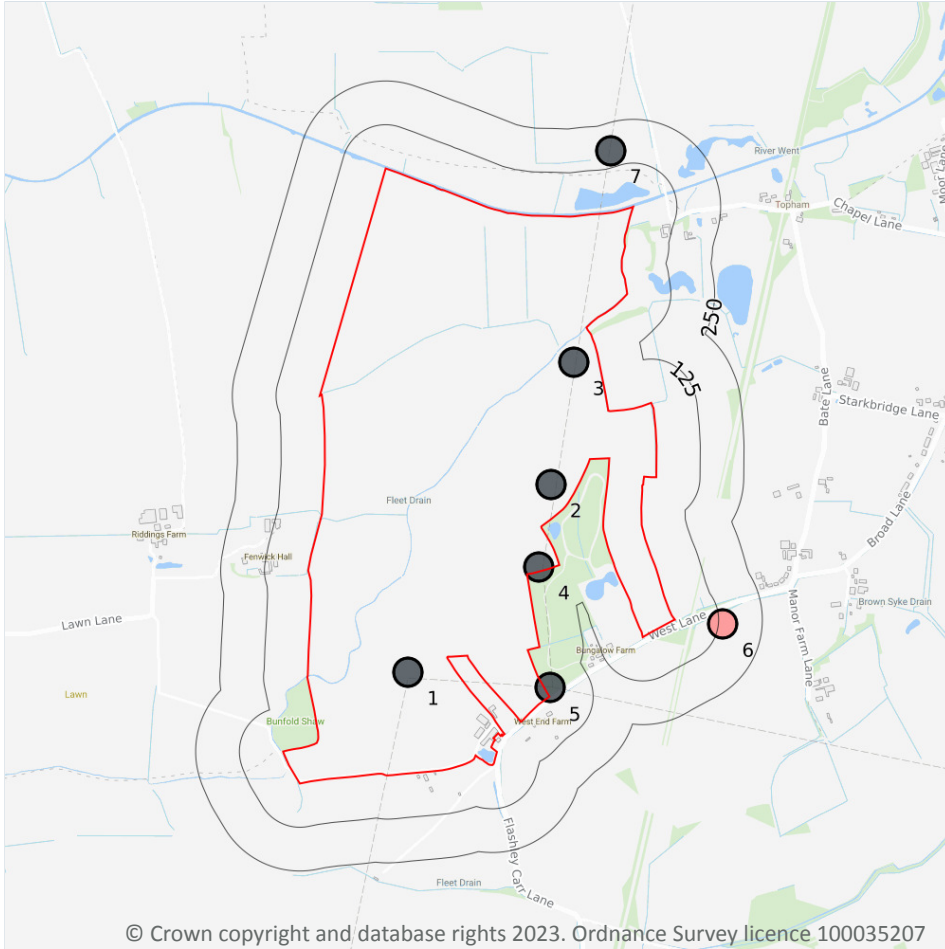
0

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

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



## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

7

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 104 >](#)

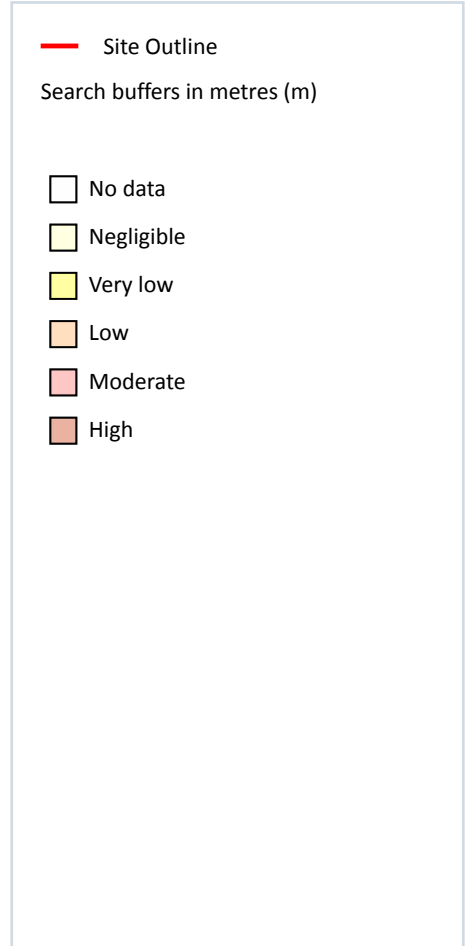
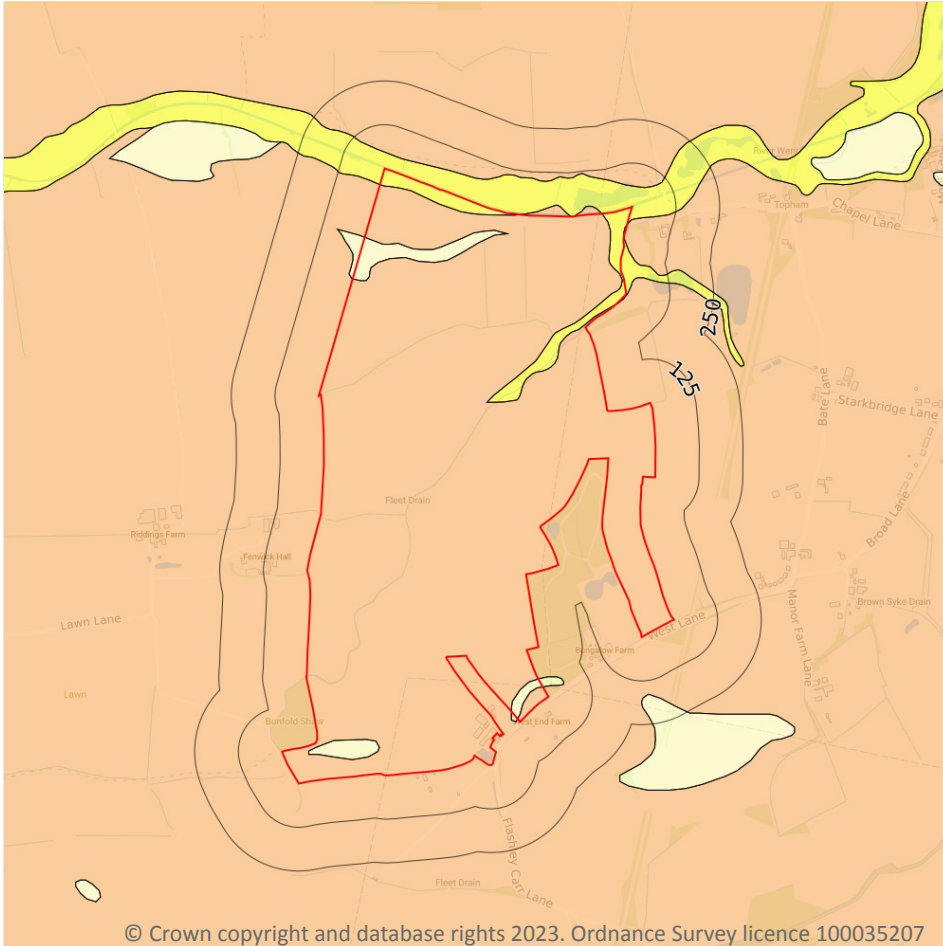
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	461228 416010	TRANSMISSION LINE LOWER SITE WEST END	-	Y	N/A
2	On site	461636 416546	DRAX-EGGBOROUGH/KEADYBY 400KV LINE	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	461701 416897	DRAX-EGGBOROUGH/KEADYBY 400KV LINE	-	Y	N/A
4	On site	461602 416311	DRAX-EGGBOROUGH/KEADYBY 400KV LINE	-	Y	N/A
5	14m SE	461633 415966	DRAX-EGGBOROUGH/KEADYBY 400KV LINE	-	Y	N/A
6	138m SE	462128 416149	ASH HILL	701.04	N	<a href="#">120960 ↗</a>
7	173m NE	461807 417501	DRAX-EGGBOROUGH/KEADYBY 400KV LINE	-	Y	N/A

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



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 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 106](#) >

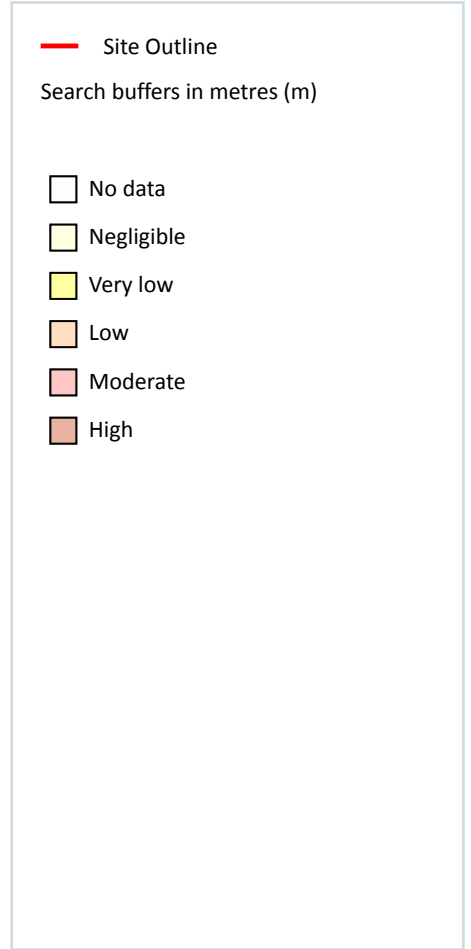
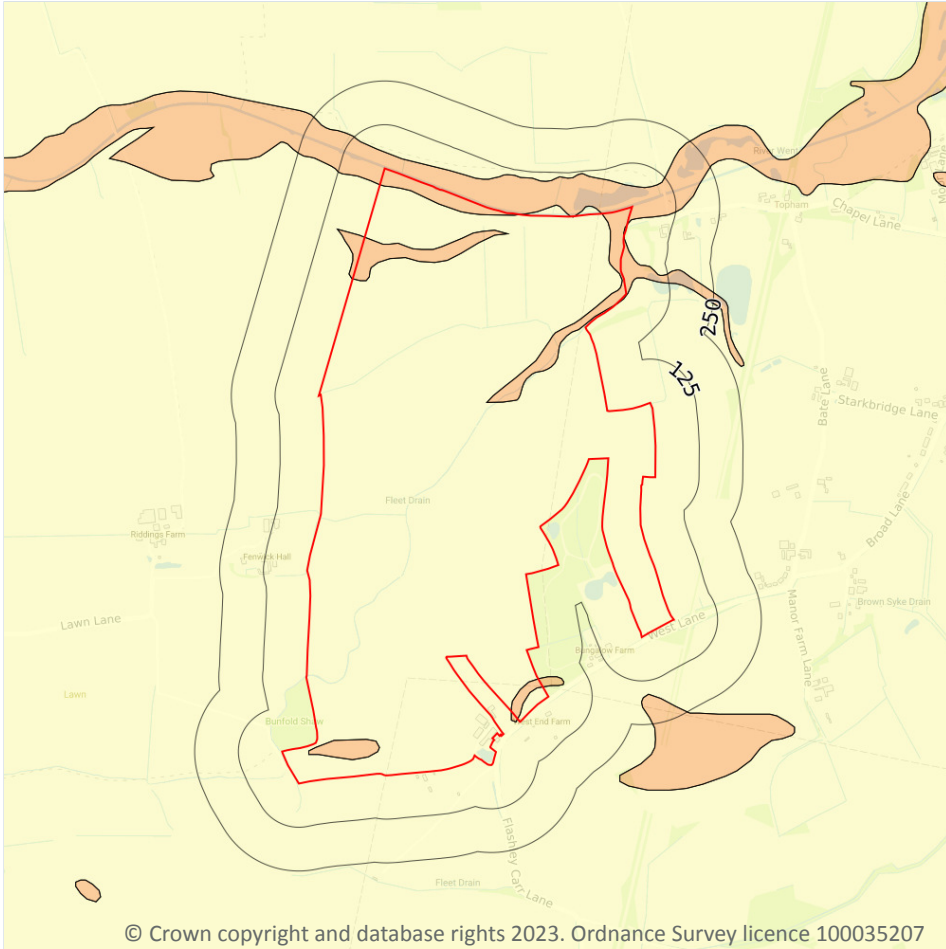
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.

Location	Hazard rating	Details
43m N	Low	Ground conditions predominantly medium plasticity.

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



## Natural ground subsidence - Running sands



### 17.2 Running sands

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 108 >](#)

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.

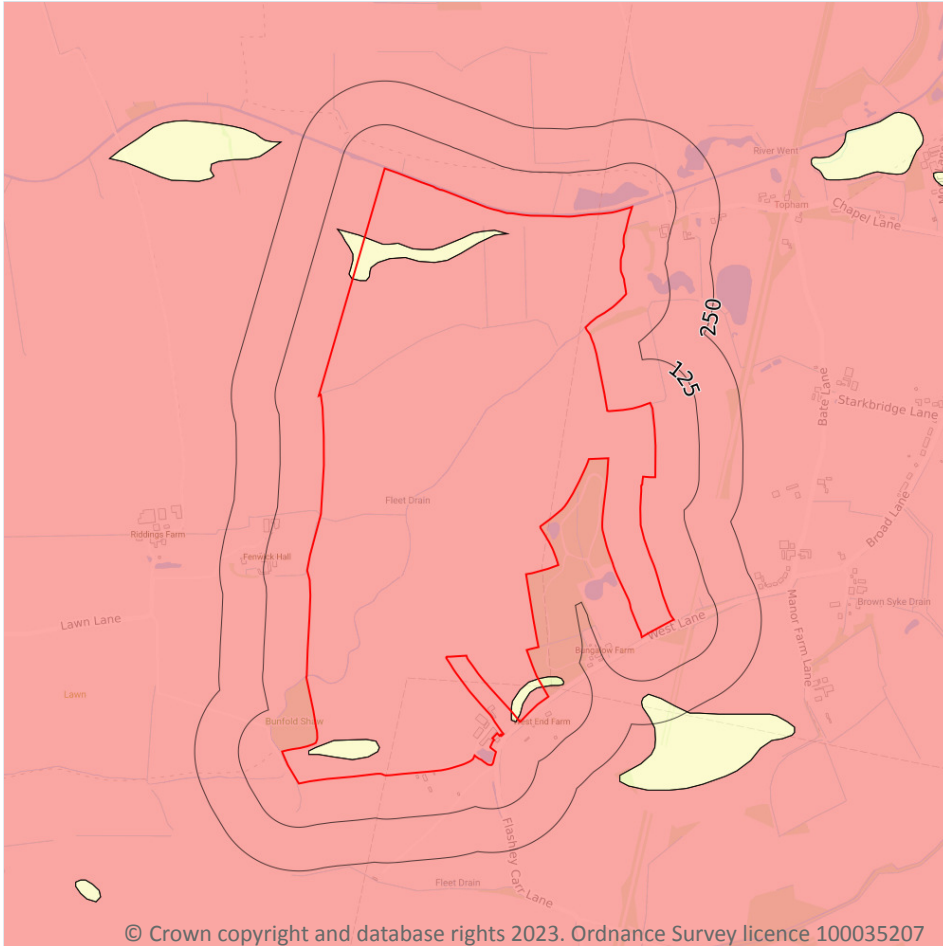


Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
43m N	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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



## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 110](#) >

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.*



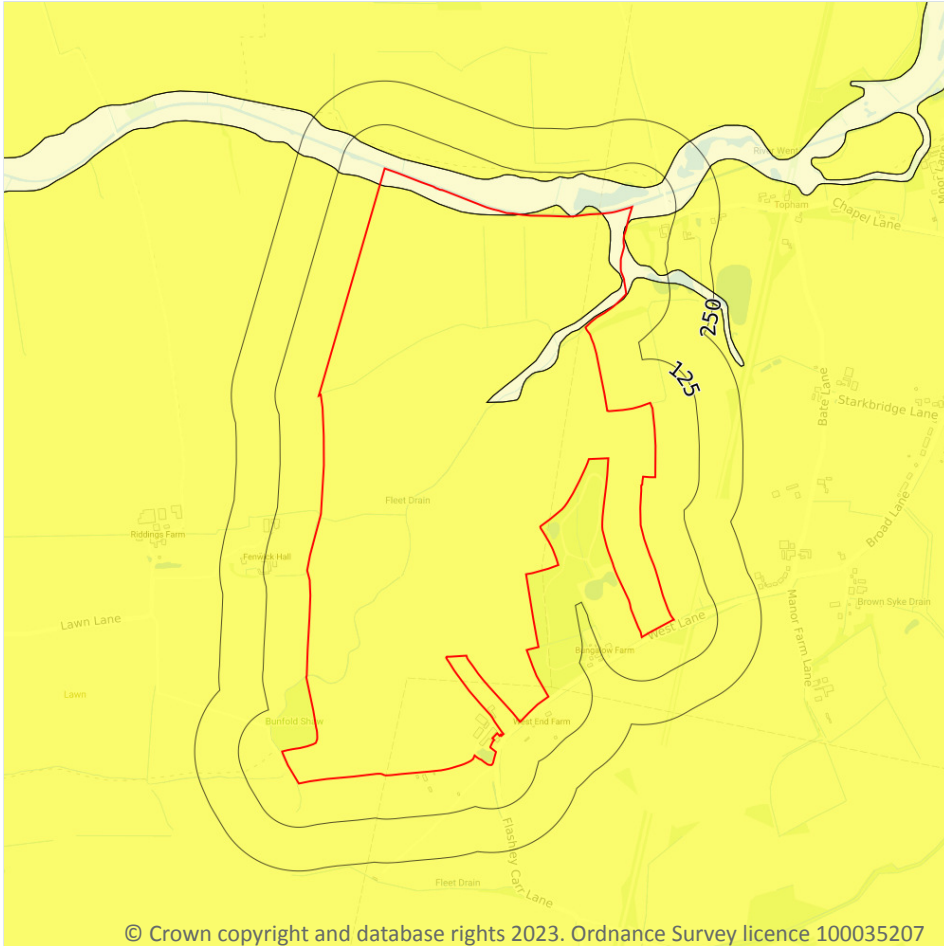
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023

## Natural ground subsidence - Collapsible deposits



— Site Outline  
Search buffers in metres (m)

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

### 17.4 Collapsible deposits

Records within 50m

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 112 >](#)

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.
43m N	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.*



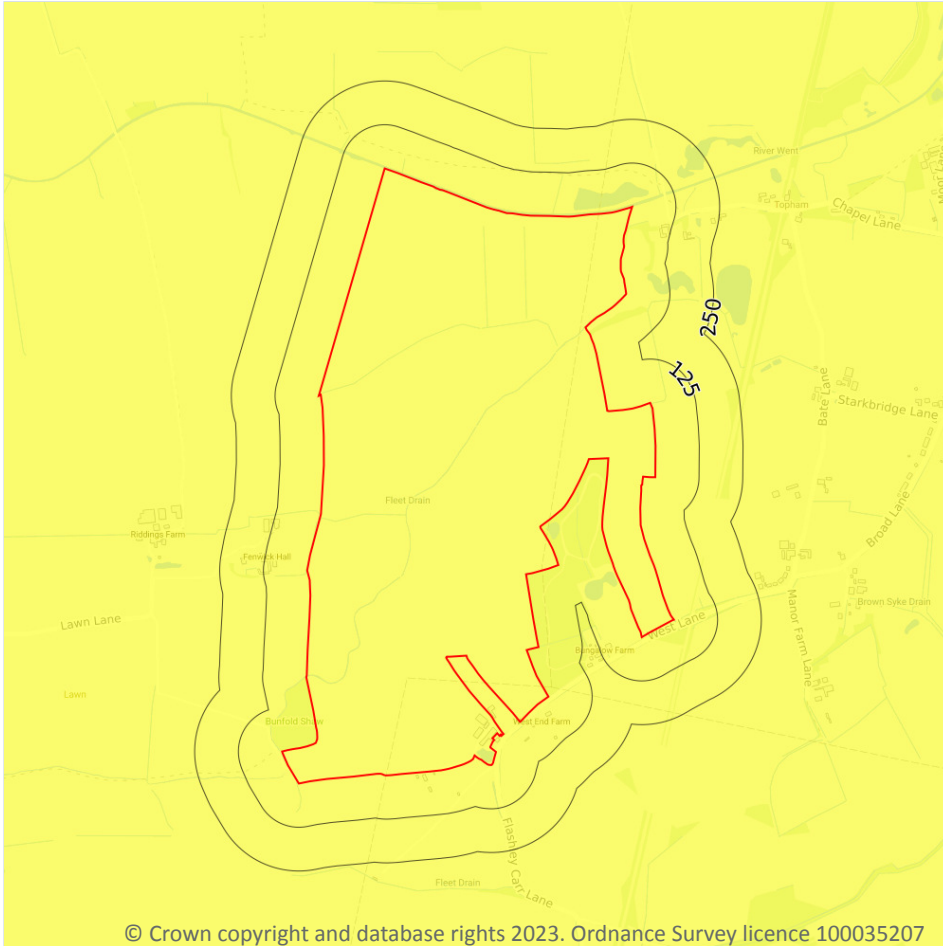
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023

## Natural ground subsidence - Landslides



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**— Site Outline**

Search buffers in metres (m)

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

### 17.5 Landslides

**Records within 50m**

**1**

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

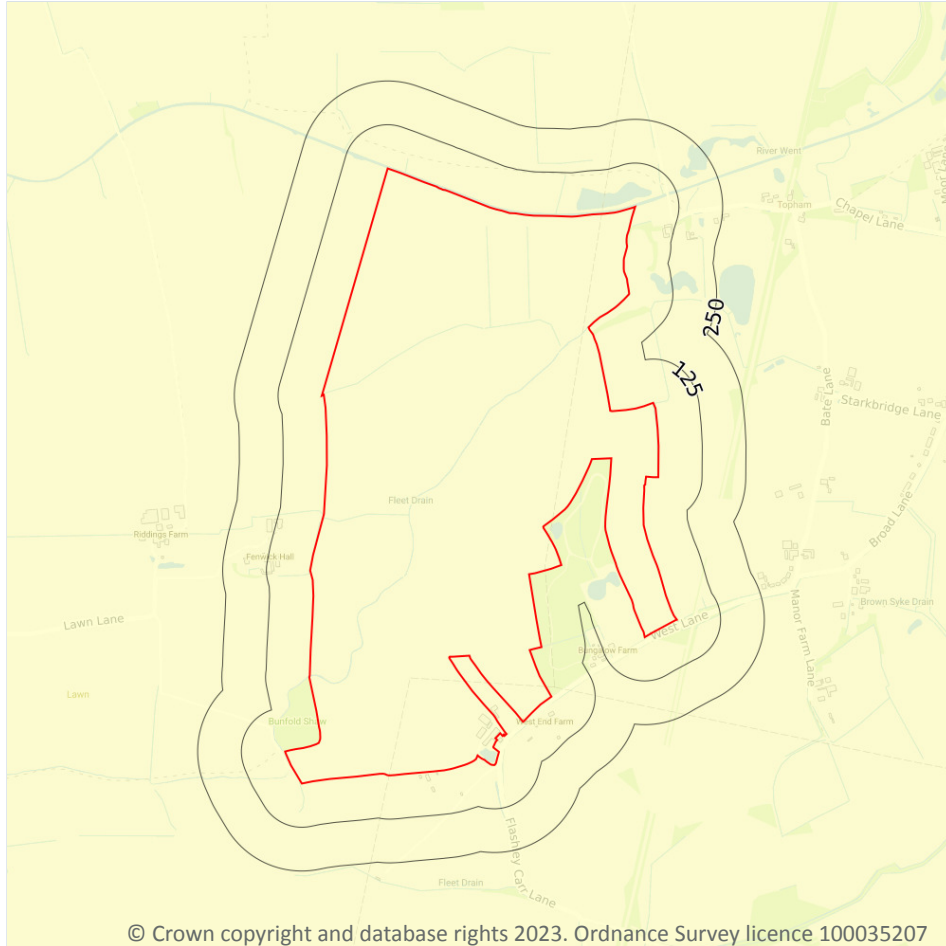
Features are displayed on the Natural ground subsidence - Landslides map on [page 114](#) >

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



### 17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 115 >](#)

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.*



Contact us with any questions at:

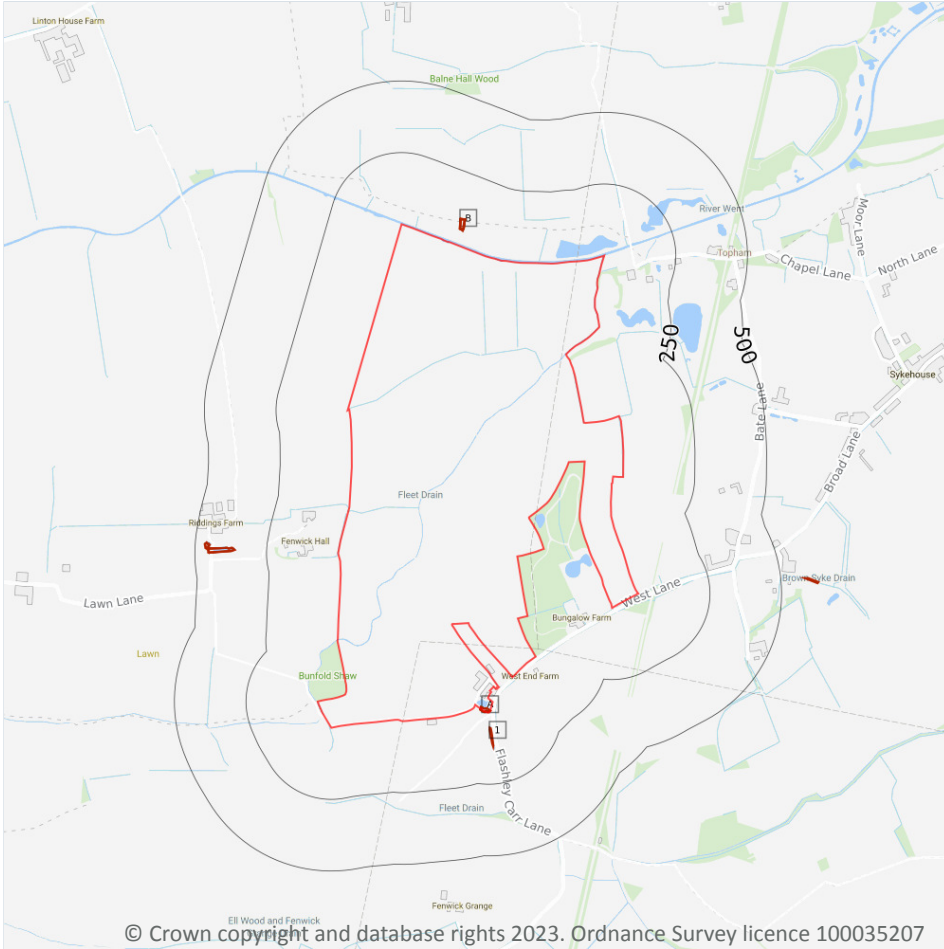
[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023



## 18 Mining and ground workings



### 18.1 BritPits

Records within 500m

0

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

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

## 18.2 Surface ground workings

Records within 250m

8

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 117](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1948	1:10560
A	On site	Pond	1904	1:10560
A	On site	Pond	1891	1:10560
1	52m S	Pond	1891	1:10560
B	53m N	Unspecified Pit	1948	1:10560
B	55m N	Unspecified Pit	1951	1:10560
B	57m N	Unspecified Pit	1907	1:10560
B	57m N	Unspecified Pit	1907	1:10560

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

## 18.3 Underground workings

Records within 1000m

0

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

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

## 18.4 Underground mining extents

Records within 500m

0

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

*This data is sourced from Groundsure.*



## 18.5 Historical Mineral Planning Areas

Records within 500m

0

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

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

## 18.6 Non-coal mining

Records within 1000m

0

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

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

## 18.7 JPB mining areas

Records on site

0

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

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

*This data is sourced from The Coal Authority.*



## 18.9 Researched mining

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.12 Coal mining

Records on site

1

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

Location	Details
On site	<b>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.</b>

*This data is sourced from the Coal Authority.*



### 18.13 Brine areas

Records on site

0

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

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

### 18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

### 18.16 Clay mining

Records on site

0

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

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



## 19 Ground cavities and sinkholes

### 19.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.2 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

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

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

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

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



*This data is sourced from Groundsure.*

## 19.5 National karst database

Records within 500m

0

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

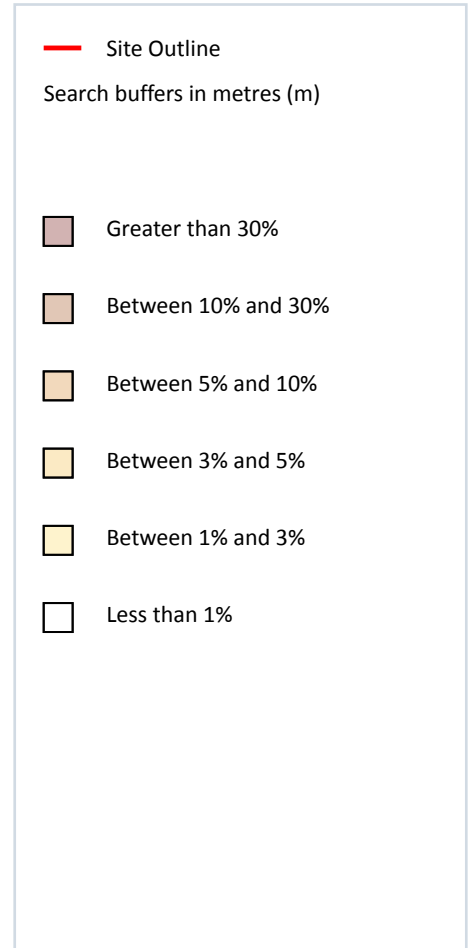
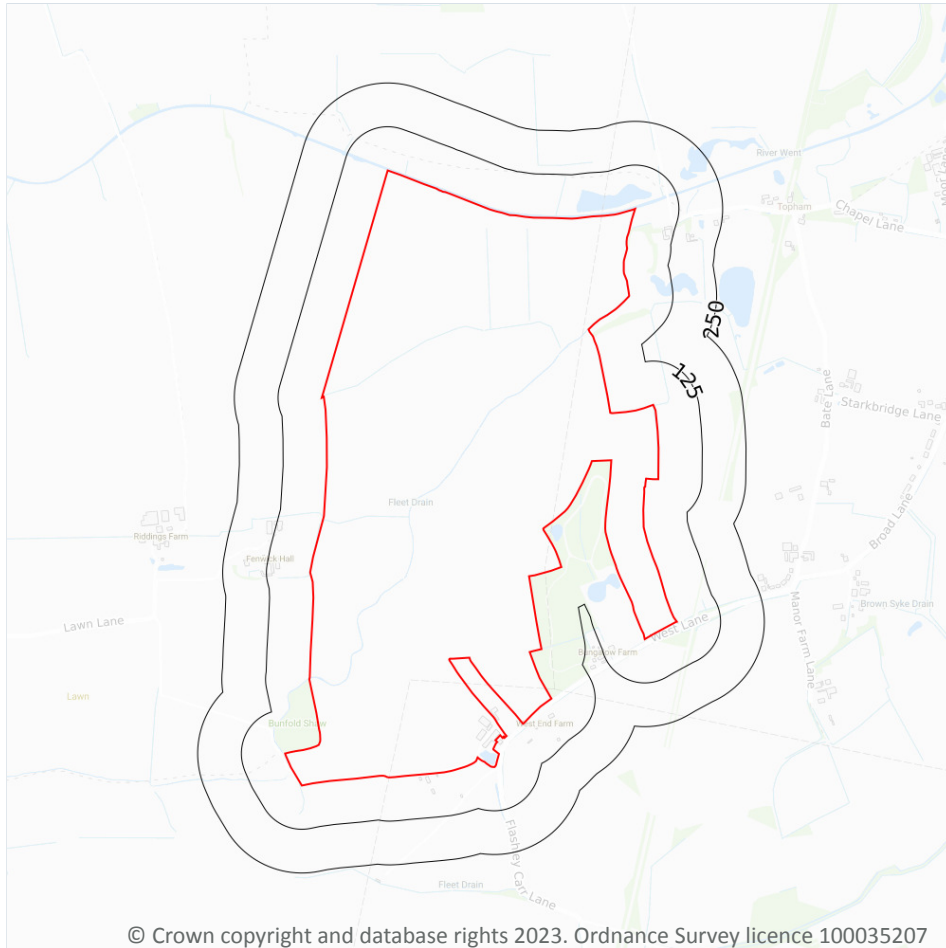
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

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



## 20 Radon



### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 124 >](#)

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



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



## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

42

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 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	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	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



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
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	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
10m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m N	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.*



## 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

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

## 21.3 BGS Measured Urban Soil Chemistry

Records within 50m

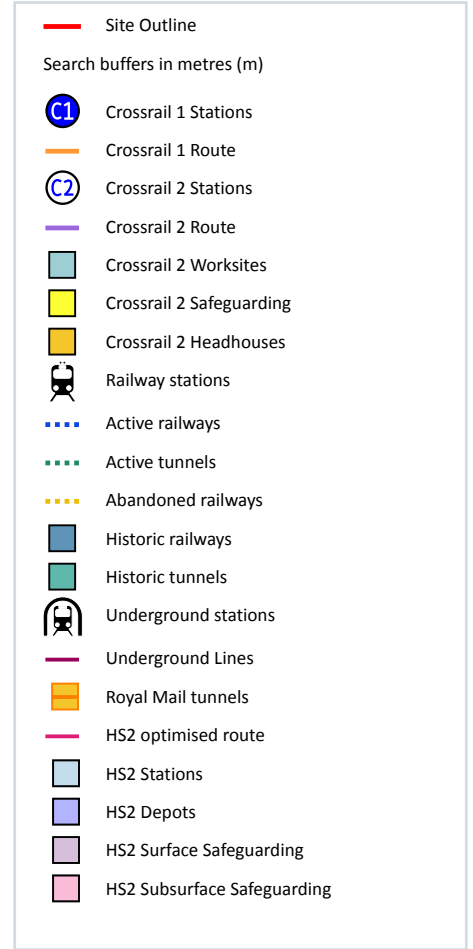
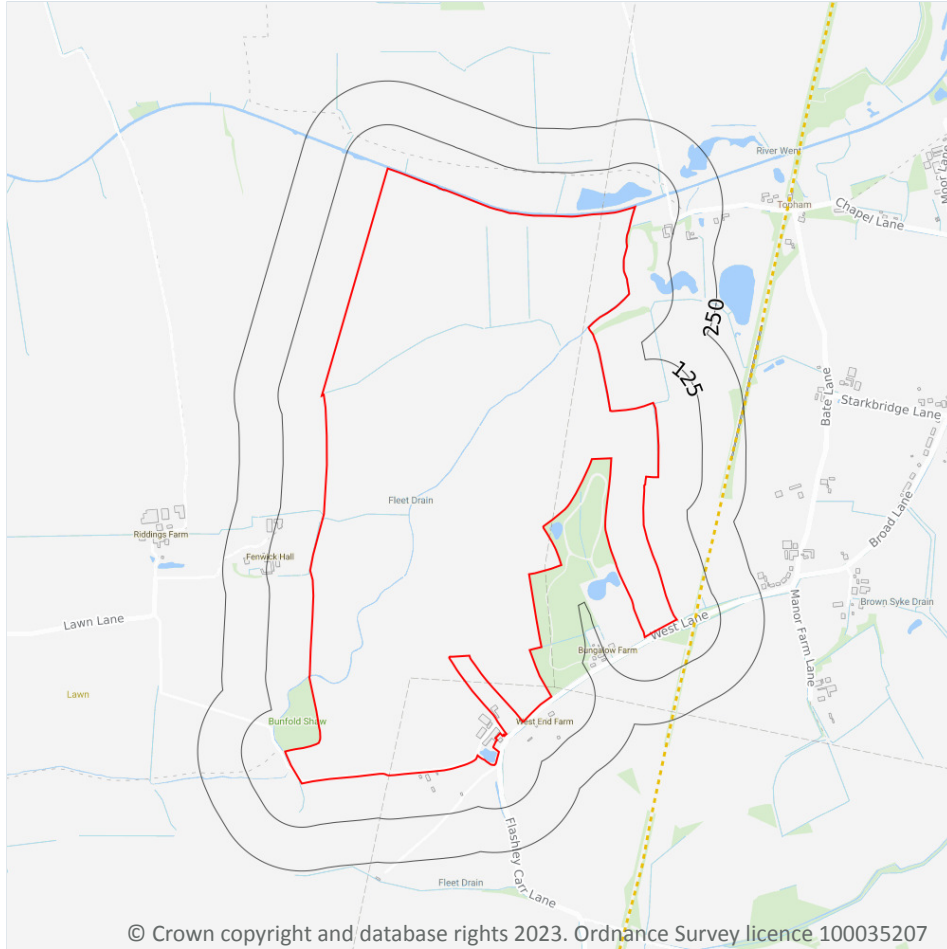
0

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

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



## 22 Railway infrastructure and projects



### 22.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

## 22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

## 22.4 Historical railway and tunnel features

Records within 250m

1

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

Features are displayed on the Railway infrastructure and projects map on [page 129 >](#)

Location	Land Use	Year of mapping	Mapping scale
207m E	Railway Sidings	1961	2500

This data is sourced from Ordnance Survey/Groundsure.

## 22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

## 22.6 Historical railways

Records within 250m

1

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

Features are displayed on the Railway infrastructure and projects map on [page 129 >](#)

Location	Description
51m SE	Abandoned



*This data is sourced from OpenStreetMap.*

## 22.7 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.*

## 22.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 22.9 Crossrail 2

Records within 500m

0

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

*This data is sourced from publicly available information by Groundsure.*

## 22.10 HS2

Records within 500m

0

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/> ↗.





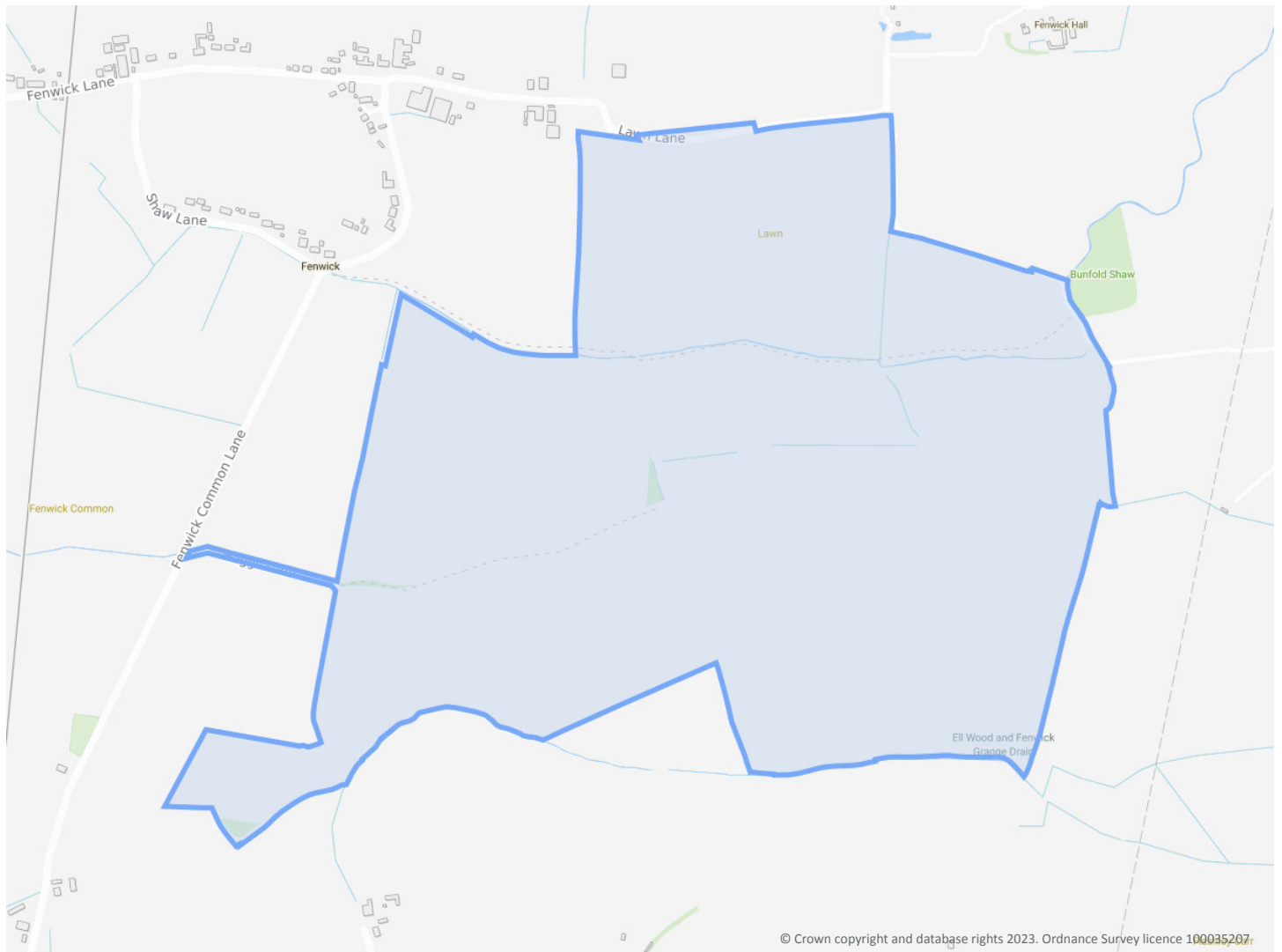
## Fenwick Solar

### Order Details

**Date:** 31/07/2023  
**Your ref:** Fenwick Solar  
**Our Ref:** GSIP-2023-13870-14752\_A\_1

### Site Details

**Location:** 460081 415288  
**Area:** 138.26 ha  
**Authority:** [Doncaster Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

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

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	0	2	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">17 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	0	2	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
18	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
20	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
20	3.5	Historical waste sites	0	0	0	0	-
20	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">20 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	5	1	135	80	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">39 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	0	0	7	-	-
40	4.2	Current or recent petrol stations	0	0	0	0	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
40	4.5	Sites determined as Contaminated Land	0	0	0	0	-



41	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
42	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
42	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>42 &gt;</b>	<b>4.13 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	0	0	4	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	List 1 Dangerous Substances	0	0	0	0	-
43	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>44 &gt;</b>	<b>4.18 &gt;</b>	<b><u>Pollution Incidents (EA/NRW) &gt;</u></b>	0	0	0	4	-
44	4.19	Pollution inventory substances	0	0	0	0	-
45	4.20	Pollution inventory waste transfers	0	0	0	0	-
45	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<b><u>Hydrogeology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>46 &gt;</b>	<b>5.1 &gt;</b>	<b><u>Superficial aquifer &gt;</u></b>	Identified (within 500m)				
<b>48 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>50 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
53	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54	5.6	Groundwater abstractions	0	0	0	0	0
<b>55 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	0	0	0	0	14
58	5.8	Potable abstractions	0	0	0	0	0
58	5.9	Source Protection Zones	0	0	0	0	-
58	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b><u>Hydrology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>59 &gt;</b>	<b>6.1 &gt;</b>	<b><u>Water Network (OS MasterMap) &gt;</u></b>	33	10	10	-	-



<a href="#">64</a> >	<a href="#">6.2</a> >	<a href="#">Surface water features</a> >	1	6	13	-	-
<a href="#">64</a> >	<a href="#">6.3</a> >	<a href="#">WFD Surface water body catchments</a> >	2	-	-	-	-
<a href="#">64</a> >	<a href="#">6.4</a> >	<a href="#">WFD Surface water bodies</a> >	0	0	0	-	-
<a href="#">65</a> >	<a href="#">6.5</a> >	<a href="#">WFD Groundwater bodies</a> >	1	-	-	-	-
Page	Section	<a href="#">River and coastal flooding</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">66</a> >	<a href="#">7.1</a> >	<a href="#">Risk of flooding from rivers and the sea</a> >	High (within 50m)				
<a href="#">67</a> >	<a href="#">7.2</a> >	<a href="#">Historical Flood Events</a> >	4	0	2	-	-
67	7.3	Flood Defences	0	0	0	-	-
<a href="#">68</a> >	<a href="#">7.4</a> >	<a href="#">Areas Benefiting from Flood Defences</a> >	2	1	1	-	-
68	7.5	Flood Storage Areas	0	0	0	-	-
<a href="#">69</a> >	<a href="#">7.6</a> >	<a href="#">Flood Zone 2</a> >	Identified (within 50m)				
<a href="#">70</a> >	<a href="#">7.7</a> >	<a href="#">Flood Zone 3</a> >	Identified (within 50m)				
Page	Section	<a href="#">Surface water flooding</a> >					
<a href="#">71</a> >	<a href="#">8.1</a> >	<a href="#">Surface water flooding</a> >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	<a href="#">Groundwater flooding</a> >					
<a href="#">73</a> >	<a href="#">9.1</a> >	<a href="#">Groundwater flooding</a> >	High (within 50m)				
Page	Section	<a href="#">Environmental designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
74	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
75	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
75	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
75	10.4	Special Protection Areas (SPA)	0	0	0	0	0
75	10.5	National Nature Reserves (NNR)	0	0	0	0	0
76	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<a href="#">76</a> >	<a href="#">10.7</a> >	<a href="#">Designated Ancient Woodland</a> >	1	0	0	0	0
76	10.8	Biosphere Reserves	0	0	0	0	0
76	10.9	Forest Parks	0	0	0	0	0
77	10.10	Marine Conservation Zones	0	0	0	0	0
<a href="#">77</a> >	<a href="#">10.11</a> >	<a href="#">Green Belt</a> >	0	0	0	1	1
77	10.12	Proposed Ramsar sites	0	0	0	0	0



77	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
78	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
78	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<a href="#">78</a> >	<a href="#">10.16</a> >	<a href="#">Nitrate Vulnerable Zones</a> >	3	0	0	0	1
<a href="#">79</a> >	<a href="#">10.17</a> >	<a href="#">SSSI Impact Risk Zones</a> >	4	-	-	-	-
80	10.18	SSSI Units	0	0	0	0	0
Page	Section	<a href="#">Visual and cultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
82	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
82	11.3	National Parks	0	0	0	-	-
<a href="#">82</a> >	<a href="#">11.4</a> >	<a href="#">Listed Buildings</a> >	0	0	3	-	-
83	11.5	Conservation Areas	0	0	0	-	-
<a href="#">83</a> >	<a href="#">11.6</a> >	<a href="#">Scheduled Ancient Monuments</a> >	0	0	1	-	-
83	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<a href="#">Agricultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">84</a> >	<a href="#">12.1</a> >	<a href="#">Agricultural Land Classification</a> >	Grade 4 (within 250m)				
85	12.2	Open Access Land	0	0	0	-	-
85	12.3	Tree Felling Licences	0	0	0	-	-
85	12.4	Environmental Stewardship Schemes	0	0	0	-	-
<a href="#">86</a> >	<a href="#">12.5</a> >	<a href="#">Countryside Stewardship Schemes</a> >	4	0	0	-	-
Page	Section	<a href="#">Habitat designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">87</a> >	<a href="#">13.1</a> >	<a href="#">Priority Habitat Inventory</a> >	13	0	7	-	-
88	13.2	Habitat Networks	0	0	0	-	-
88	13.3	Open Mosaic Habitat	0	0	0	-	-
89	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<a href="#">Geology 1:10,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">90</a> >	<a href="#">14.1</a> >	<a href="#">10k Availability</a> >	Identified (within 500m)				
92	14.2	Artificial and made ground (10k)	0	0	0	0	-
<a href="#">93</a> >	<a href="#">14.3</a> >	<a href="#">Superficial geology (10k)</a> >	11	1	1	2	-

94	14.4	Landslip (10k)	0	0	0	0	-
<a href="#">95</a> >	<a href="#">14.5</a> >	<a href="#">Bedrock geology (10k)</a> >	4	0	0	0	-
96	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<a href="#">Geology 1:50,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">97</a> >	<a href="#">15.1</a> >	<a href="#">50k Availability</a> >	Identified (within 500m)				
98	15.2	Artificial and made ground (50k)	0	0	0	0	-
98	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<a href="#">99</a> >	<a href="#">15.4</a> >	<a href="#">Superficial geology (50k)</a> >	6	0	1	2	-
<a href="#">100</a> >	<a href="#">15.5</a> >	<a href="#">Superficial permeability (50k)</a> >	Identified (within 50m)				
101	15.6	Landslip (50k)	0	0	0	0	-
101	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">102</a> >	<a href="#">15.8</a> >	<a href="#">Bedrock geology (50k)</a> >	1	0	0	0	-
<a href="#">103</a> >	<a href="#">15.9</a> >	<a href="#">Bedrock permeability (50k)</a> >	Identified (within 50m)				
103	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<a href="#">Boreholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">104</a> >	<a href="#">16.1</a> >	<a href="#">BGS Boreholes</a> >	1	2	2	-	-
Page	Section	<a href="#">Natural ground subsidence</a> >					
<a href="#">106</a> >	<a href="#">17.1</a> >	<a href="#">Shrink swell clays</a> >	Low (within 50m)				
<a href="#">108</a> >	<a href="#">17.2</a> >	<a href="#">Running sands</a> >	Low (within 50m)				
<a href="#">110</a> >	<a href="#">17.3</a> >	<a href="#">Compressible deposits</a> >	Moderate (within 50m)				
<a href="#">112</a> >	<a href="#">17.4</a> >	<a href="#">Collapsible deposits</a> >	Very low (within 50m)				
<a href="#">113</a> >	<a href="#">17.5</a> >	<a href="#">Landslides</a> >	Very low (within 50m)				
<a href="#">114</a> >	<a href="#">17.6</a> >	<a href="#">Ground dissolution of soluble rocks</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">116</a> >	<a href="#">18.1</a> >	<a href="#">BritPits</a> >	0	0	1	0	-
<a href="#">117</a> >	<a href="#">18.2</a> >	<a href="#">Surface ground workings</a> >	0	0	3	-	-
117	18.3	Underground workings	0	0	0	0	0
117	18.4	Underground mining extents	0	0	0	0	-
118	18.5	Historical Mineral Planning Areas	0	0	0	0	-



118	18.6	Non-coal mining	0	0	0	0	0
118	18.7	JPB mining areas	None (within 0m)				
118	18.8	The Coal Authority non-coal mining	0	0	0	0	-
119	18.9	Researched mining	0	0	0	0	-
119	18.10	Mining record office plans	0	0	0	0	-
119	18.11	BGS mine plans	0	0	0	0	-
<b>119 &gt;</b>	<b>18.12 &gt;</b>	<b>Coal mining &gt;</b>	Identified (within 0m)				
120	18.13	Brine areas	None (within 0m)				
120	18.14	Gypsum areas	None (within 0m)				
120	18.15	Tin mining	None (within 0m)				
120	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
121	19.1	Natural cavities	0	0	0	0	-
121	19.2	Mining cavities	0	0	0	0	0
121	19.3	Reported recent incidents	0	0	0	0	-
121	19.4	Historical incidents	0	0	0	0	-
122	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<b>123 &gt;</b>	<b>20.1 &gt;</b>	<b>Radon &gt;</b>	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<b>125 &gt;</b>	<b>21.1 &gt;</b>	<b>BGS Estimated Background Soil Chemistry &gt;</b>	30	3	-	-	-
126	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
127	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
128	22.1	Underground railways (London)	0	0	0	-	-
128	22.2	Underground railways (Non-London)	0	0	0	-	-
128	22.3	Railway tunnels	0	0	0	-	-
128	22.4	Historical railway and tunnel features	0	0	0	-	-
128	22.5	Royal Mail tunnels	0	0	0	-	-

129	22.6	Historical railways	0	0	0	-	-
129	22.7	Railways	0	0	0	-	-
129	22.8	Crossrail 1	0	0	0	0	-
129	22.9	Crossrail 2	0	0	0	0	-
129	22.10	HS2	0	0	0	0	-



## Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 138.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2020 aerial photograph



Capture Date: 25/06/2020

Site Area: 138.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2013 aerial photograph



Capture Date: 07/06/2013

Site Area: 138.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 138.26ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

## Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 138.26ha



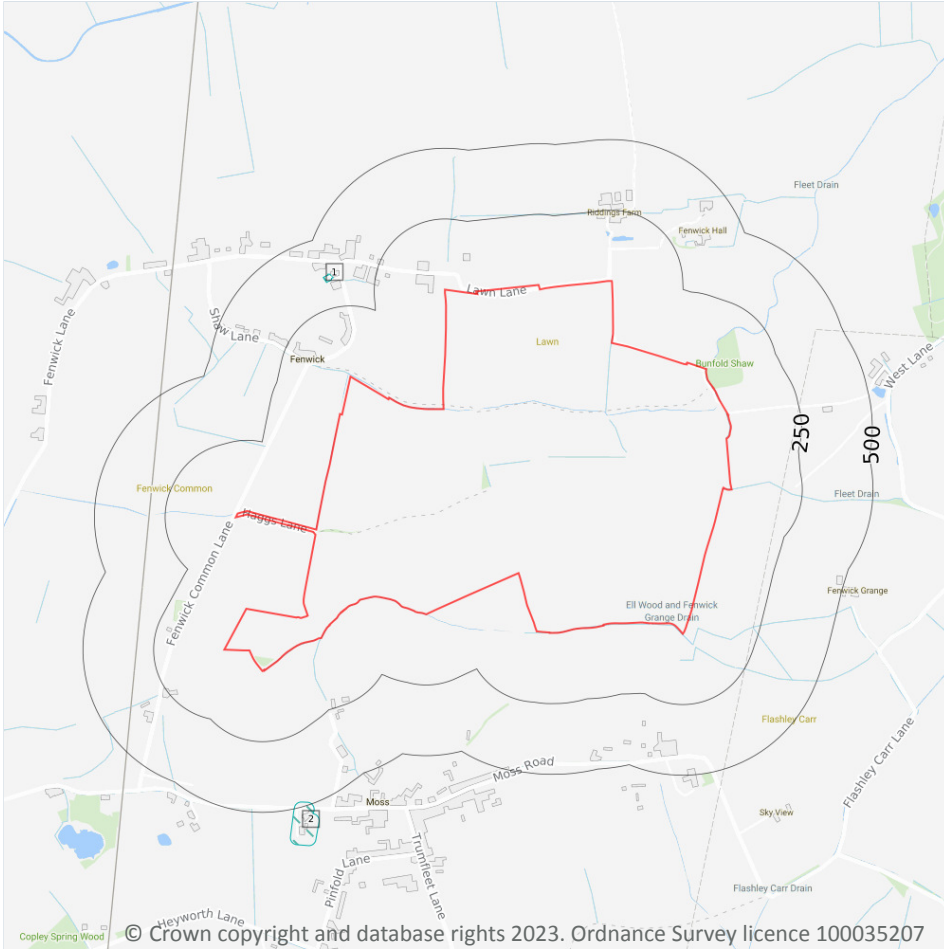
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 31 July 2023

# 1 Past land use



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

## 1.1 Historical industrial land uses

**Records within 500m** **2**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	344m NW	Smithy	1904	1457369



ID	Location	Land use	Dates present	Group ID
2	482m SW	Garage	1967 - 1983	1533182

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

## 1.2 Historical tanks

**Records within 500m**

**0**

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'.

*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

### 2.1 Historical industrial land uses

**Records within 500m** **2**

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 17](#) >

ID	Location	Land Use	Date	Group ID
1	344m NW	Smithy	1904	1457369
2	482m SW	Garage	1967	1533182

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

## 2.2 Historical tanks

Records within 500m

0

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'.

*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

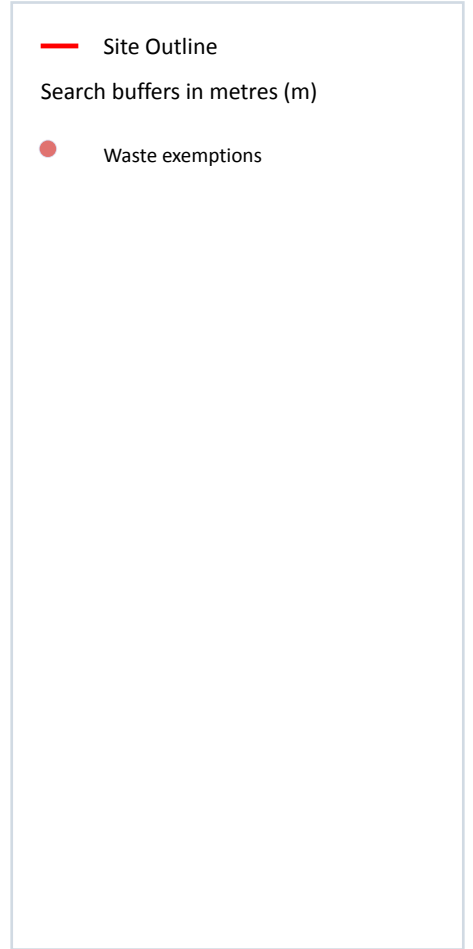
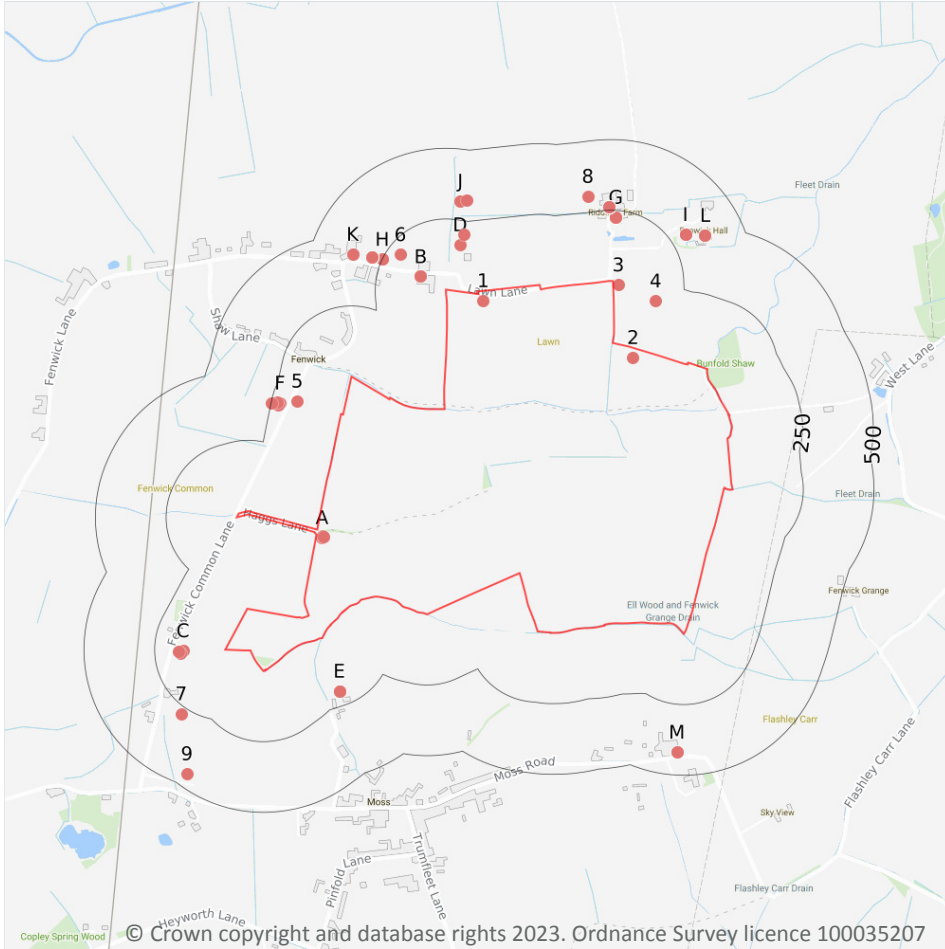
0

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

221

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 19 >](#)



ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/GF0502E X/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
2	On site	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0879U N/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
A	On site	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX114038	Storing waste exemption	On a farm	Storage of sludge
A	On site	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX012522	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX243463	Storing waste exemption	On a farm	Storage of sludge
3	18m NE	-	WEX290469	Storing waste exemption	On a farm	Storage of sludge
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of mulch
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of waste in construction
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Use of waste for a specified purpose
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Incorporation of ash into soil



ID	Location	Site	Reference	Category	Sub-Category	Description
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Using waste exemption	On a Farm	Pig and poultry ash
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Treating waste exemption	On a Farm	Recovery of scrap metal
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX209448	Disposing of waste exemption	On a Farm	Burning waste in the open
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Disposing of waste exemption	On a farm	Burning waste in the open
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Treating waste exemption	On a farm	Recovery of scrap metal
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of waste in construction
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of mulch
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Incorporation of ash into soil
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Pig and poultry ash
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX054828	Using waste exemption	On a farm	Use of waste for a specified purpose
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Burning waste in the open
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Treating waste exemption	On a farm	Recovery of scrap metal
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Pig and poultry ash
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Incorporation of ash into soil



ID	Location	Site	Reference	Category	Sub-Category	Description
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of mulch
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of waste for a specified purpose
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	100m NW	HAGGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX333236	Using waste exemption	On a farm	Use of waste in construction
B	101m NW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	101m NW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	101m NW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	101m NW	Haggs Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/CE5081X D/A002	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
4	148m NE	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0579U K/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	150m SW	-	WEX362801	Storing waste exemption	On a farm	Storage of sludge
C	159m SW	-	WEX282212	Storing waste exemption	On a Farm	Storage of sludge
5	161m W	-	WEX290900	Storing waste exemption	On a farm	Storage of sludge





ID	Location	Site	Reference	Category	Sub-Category	Description
D	162m N	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/SF0001EX /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
C	167m SW	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX159757	Storing waste exemption	On a Farm	Storage of sludge
D	199m N	-	WEX284143	Storing waste exemption	On a Farm	Storage of sludge
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Treating waste exemption	Agricultural Waste Only	Crushing and emptying waste vehicle oil filters
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Treating waste exemption	Agricultural Waste Only	Recovery of scrap metal
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
E	200m SW	Jet Hall Farm London Lane DONCASTER South Yorkshire DN6 0HJ	EPR/JF0437LL/ A001	Using waste exemption	Agricultural Waste Only	Use of waste to manufacture finished goods
6	202m NW	-	WEX290804	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
F	219m W	-	WEX255119	Storing waste exemption	On a farm	Storage of sludge
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste in construction
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of baled end-of-life tyres in construction
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Incorporation of ash into soil
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Screening and blending of waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of sheep dip for disposal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste in a biobed or biofilter
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Disposal by incineration
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in secure containers
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of waste in a secure place
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Storing waste exemption	On a Farm	Storage of sludge
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste derived biodiesel as fuel
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste for a specified purpose
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of waste to manufacture finished goods
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of mulch
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Pig and poultry ash
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Using waste exemption	On a Farm	Use of depolluted end-of-life vehicles for vehicle parts
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	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
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Recovery of scrap metal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Sorting mixed waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Treatment of waste food
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Treating waste exemption	On a Farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX218212	Disposing of waste exemption	On a Farm	Depositing samples of waste for the purposes of testing or analysing them
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Depositing samples of waste for the purposes of testing or analysing them
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste food



ID	Location	Site	Reference	Category	Sub-Category	Description
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Sorting mixed waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Recovery of scrap metal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of depolluted end-of-life vehicles for vehicle parts
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Pig and poultry ash
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of mulch
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste to manufacture finished goods
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste for a specified purpose
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in a secure place
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Storing waste exemption	On a farm	Storage of waste in secure containers
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Burning waste in the open
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Disposal by incineration
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Screening and blending of waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Incorporation of ash into soil



ID	Location	Site	Reference	Category	Sub-Category	Description
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Using waste exemption	On a farm	Use of waste in construction
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Manual treatment of waste
G	223m N	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX345570	Treating waste exemption	On a farm	Crushing and emptying waste vehicle oil filters
F	224m W	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX114043	Storing waste exemption	On a farm	Storage of sludge
F	230m W	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX159760	Storing waste exemption	On a Farm	Storage of sludge
H	249m NW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
H	249m NW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
H	249m NW	Croft Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/BF0135CP /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
F	249m W	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX012532	Storing waste exemption	On a farm	Storage of sludge
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Disposal by incineration
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in a secure place
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Cleaning, washing, spraying or coating relevant waste
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste in a biobed or biofilter
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Treating waste exemption	Both agricultural and non- agricultural waste	Screening and blending of waste





ID	Location	Site	Reference	Category	Sub-Category	Description
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of baled end-of-life tyres in construction
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste derived biodiesel as fuel
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste to manufacture finished goods
G	260m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/GE5282FC /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
7	278m SW	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX167006	Storing waste exemption	On a farm	Storage of sludge
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Disposal by incineration
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Disposing of waste exemption	On a farm	Burning waste in the open
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of waste in secure containers
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of waste in a secure place
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Storing waste exemption	On a farm	Storage of sludge
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of sheep dip for disposal
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal



ID	Location	Site	Reference	Category	Sub-Category	Description
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Treating waste exemption	On a farm	Screening and blending of waste
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste in construction
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of mulch
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Incorporation of ash into soil
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste for a specified purpose
H	287m NW	RIDDINGS FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX067456	Using waste exemption	On a farm	Use of waste to manufacture finished goods



ID	Location	Site	Reference	Category	Sub-Category	Description
I	303m NE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
I	303m NE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
I	303m NE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
I	303m NE	Fenwick Hall Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/SH0979KT /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
8	304m N	Riddings Farm Lawn Lane DONCASTER South Yorkshire DN6 0HB	EPR/PH0979U V/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
J	314m N	CAMPSMOUNT HOME FARM, CAMPSALL, DONCASTER, DN6 9AP	WEX151768	Storing waste exemption	On a Farm	Storage of sludge
J	314m N	-	WEX295244	Storing waste exemption	On a Farm	Storage of sludge
J	321m N	Stubbs Grange Farm Cottage Common Lane Doncaster North Yorkshire DN6 0EX	EPR/GF0402E M/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
K	353m NW	CROFT FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX339045	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
K	353m NW	CROFT FARM, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX339045	Disposing of waste exemption	On a farm	Burning waste in the open
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX177839	Disposing of waste exemption	On a farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Disposing of waste exemption	On a farm	Burning waste in the open
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste in construction
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX017159	Using waste exemption	On a farm	Use of waste for a specified purpose
L	363m NE	FENWICK HALL, LAWN LANE, FENWICK, DONCASTER, DN6 0HB	WEX308807	Disposing of waste exemption	On a farm	Burning waste in the open
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Disposal by incineration
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit

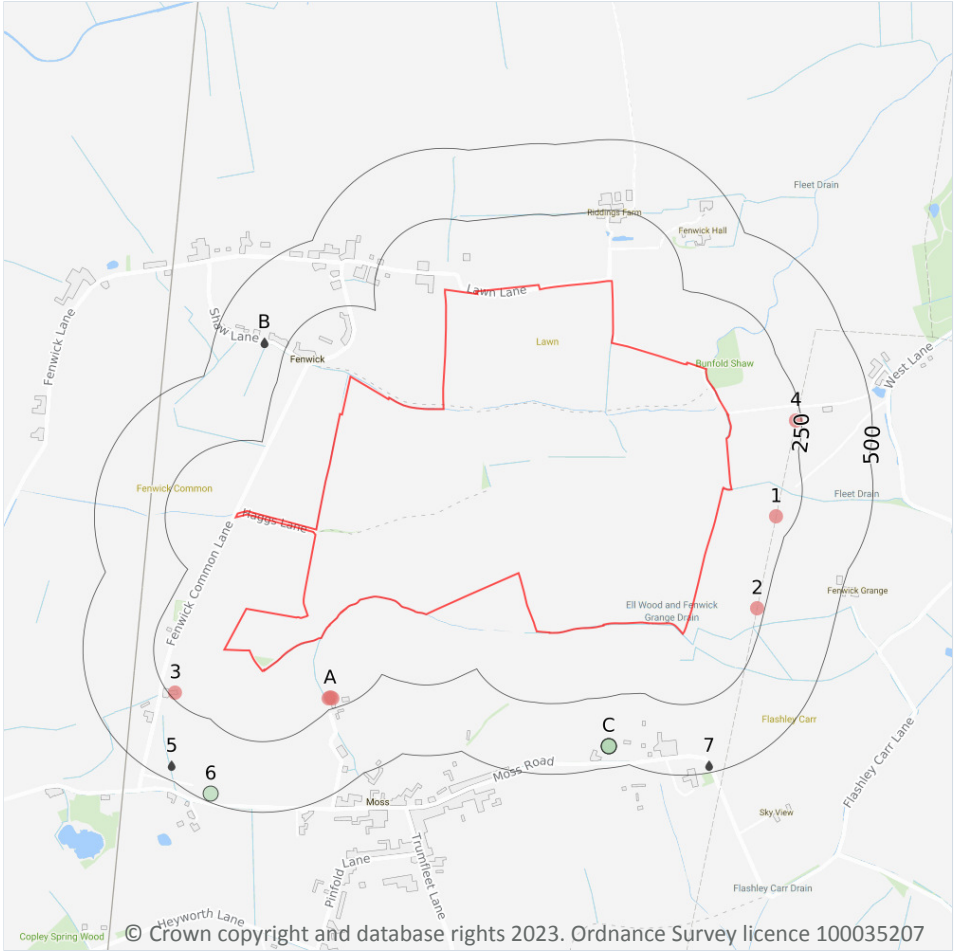


ID	Location	Site	Reference	Category	Sub-Category	Description
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
M	422m SE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX204731	Storing waste exemption	On a Farm	Storage of waste in a secure place
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX204731	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Storing waste exemption	On a farm	Storage of waste in a secure place
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Treating waste exemption	On a farm	Manual treatment of waste
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX330241	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	423m SE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX330241	Storing waste exemption	On a farm	Storage of waste in a secure place
9	455m SW	HERMITAGE FARM, BRAITHWAITE LANE, BRAITHWAITE, DONCASTER, DN7 5SU	WEX114044	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
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

**Records within 250m** **7**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 39](#) >

ID	Location	Company	Address	Activity	Category
1	184m E	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
A	210m SW	Tank	South Yorkshire, DN6	Tanks (Generic)	Industrial Features
A	212m SW	Tank	South Yorkshire, DN6	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
A	214m SW	Tank	South Yorkshire, DN6	Tanks (Generic)	Industrial Features
2	224m SE	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
3	230m SW	Kernel Feeders	-, Fenwick Common Lane, Fenwick, Doncaster, South Yorkshire, DN6 OHG	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
4	231m E	Pylon	South Yorkshire, DN14	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

4

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

Features are displayed on the Current industrial land use map on [page 39 >](#)

ID	Location	Address	Details	
B	328m NW	PROSPECT LODGE, SHAW LANE, FENWICK, DONCASTER, YORKSHIRE, DN6 0HD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRZB3492VD Permit Version: 1 Receiving Water: TRIB OF FENWICK COMMON DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 20/09/2022 Effective Date: 20/09/2022 Revocation Date: -
B	328m NW	PROSPECT HOUSE, SHAW LANE, FENWICK, DONCASTER, YORKSHIRE, DN6 0HD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRXB3298RJ Permit Version: 1 Receiving Water: TRIB OF FENWICK COMMON DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 20/09/2022 Effective Date: 20/09/2022 Revocation Date: -
5	451m SW	STAR INN, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7199 Permit Version: 1 Receiving Water: TRIB OF FENWICK GRANGE DRAIN	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 14/02/1996 Effective Date: 14/02/1996 Revocation Date: 01/10/1996



ID	Location	Address	Details	
7	476m SE	MOSELEY GRANGE, MOSS ROAD, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 1595 Permit Version: 1 Receiving Water: TRIB OF ASH CARR	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/07/1963 Effective Date: 27/07/1963 Revocation Date: -

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

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

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

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

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

#### 4.15 Pollutant release to public sewer

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

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

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

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

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

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

4

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 39](#) >

ID	Location	Details	
C	421m S	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	421m S	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Specific Waste Materials:Contaminated Water Pollutant Description: Asbestos:Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	421m S	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
6	470m SW	Incident Date: 07/01/2010 Incident Identification: 744365 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)

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

## 4.19 Pollution inventory substances

Records within 500m

0

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

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



## 4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

## 4.21 Pollution inventory radioactive waste

Records within 500m

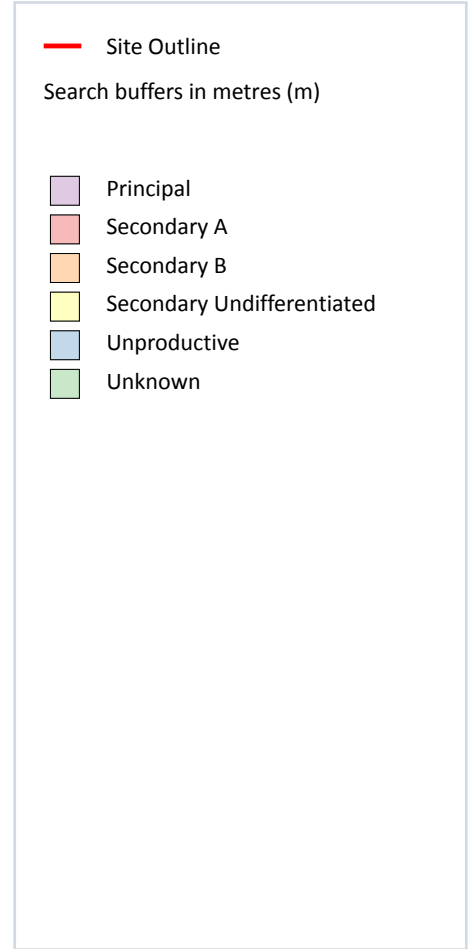
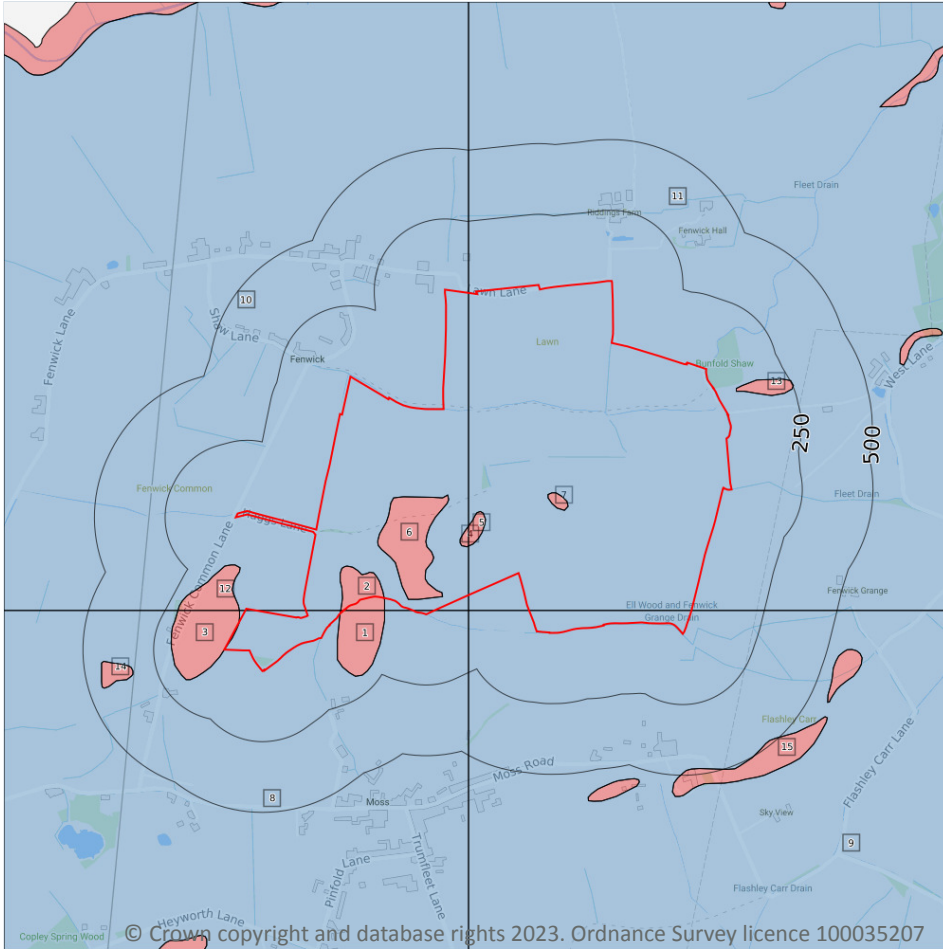
0

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

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



## 5 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

15

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 46 >](#)

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

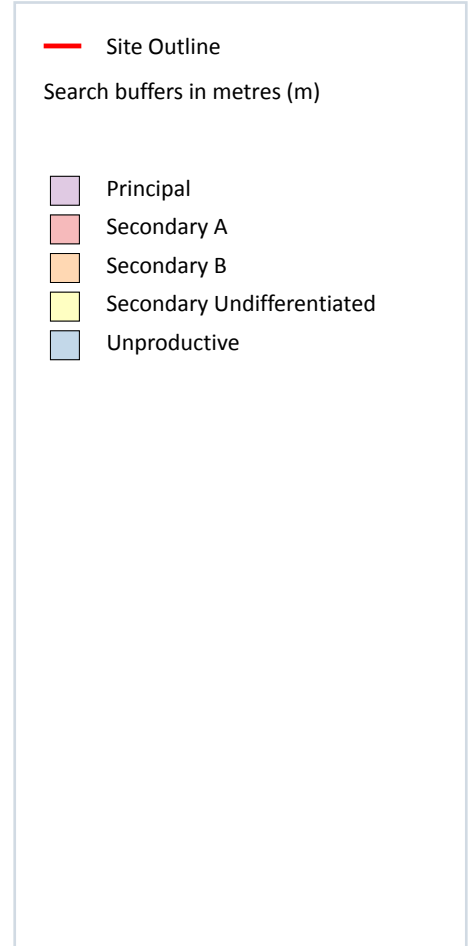
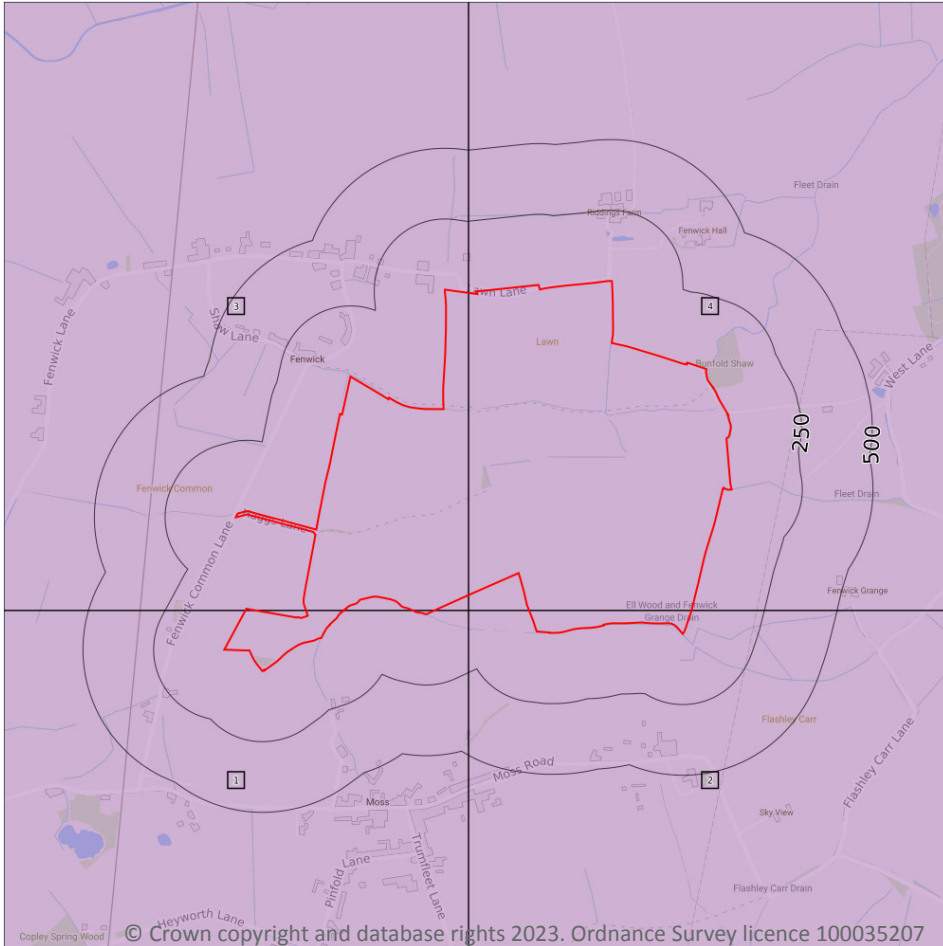


ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	On site	Secondary 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	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
6	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
7	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
8	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	19m 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
13	67m 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
14	332m 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
15	479m SE	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



### 5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 48](#) >

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

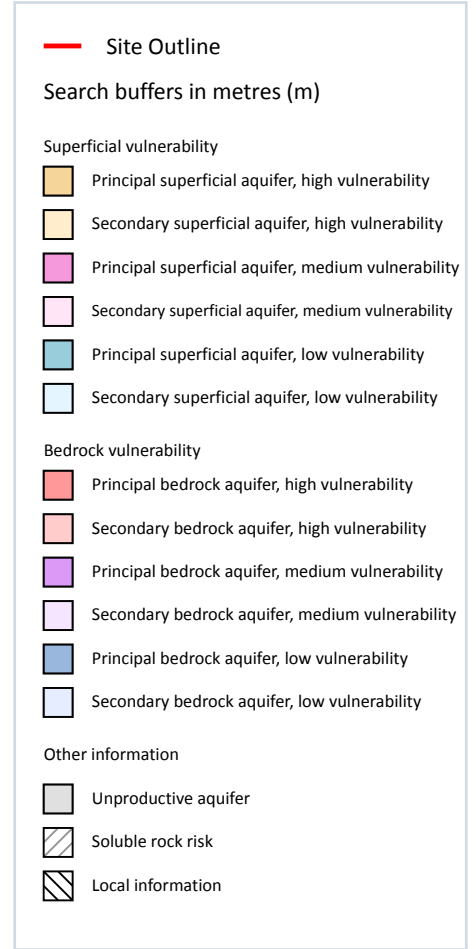
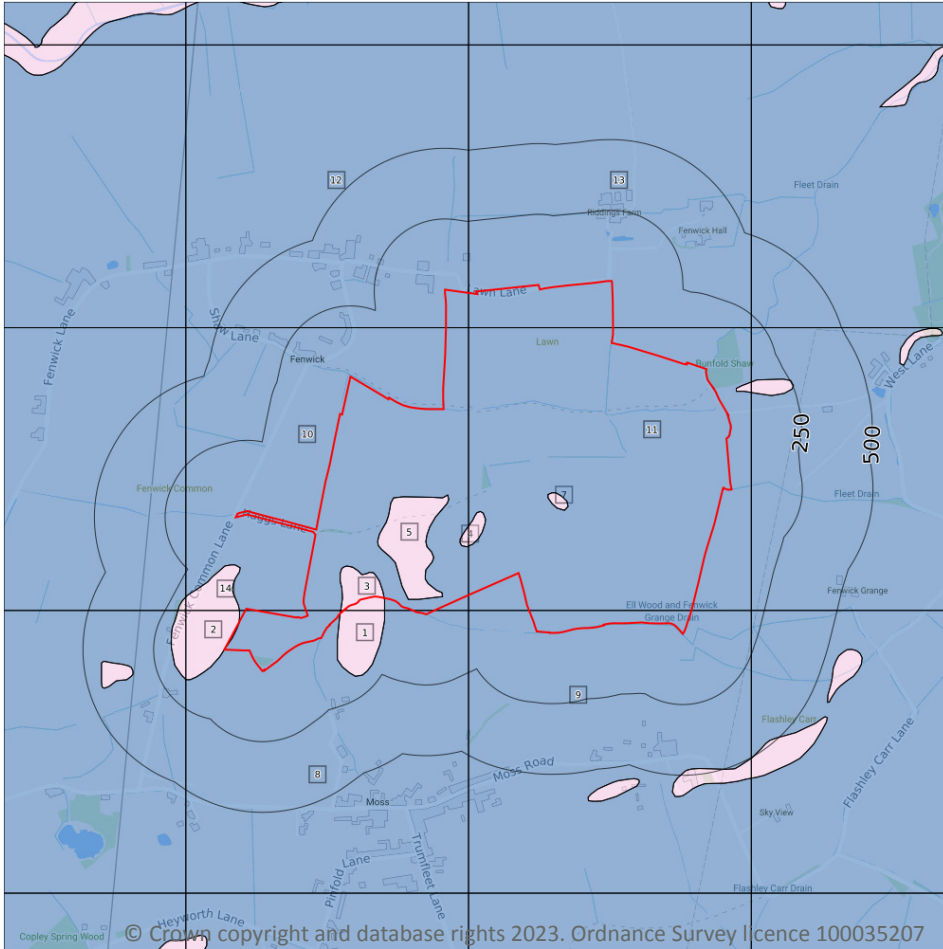


ID	Location	Designation	Description
3	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	On site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



### 5.3 Groundwater vulnerability

Records within 50m

14

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 50 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	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: Low	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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	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: Low	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: 40- 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 - 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: 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: Low Infiltration value: 40- 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



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
9	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
10	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
11	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
12	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
13	On site	<b>Summary Classification:</b> Principal bedrock aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Unproductive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Thickness:</b> >10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	18m SW	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: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

## 5.4 Groundwater vulnerability- soluble rock risk

**Records on site**

**0**

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

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

## 5.5 Groundwater vulnerability- local information

**Records on site**

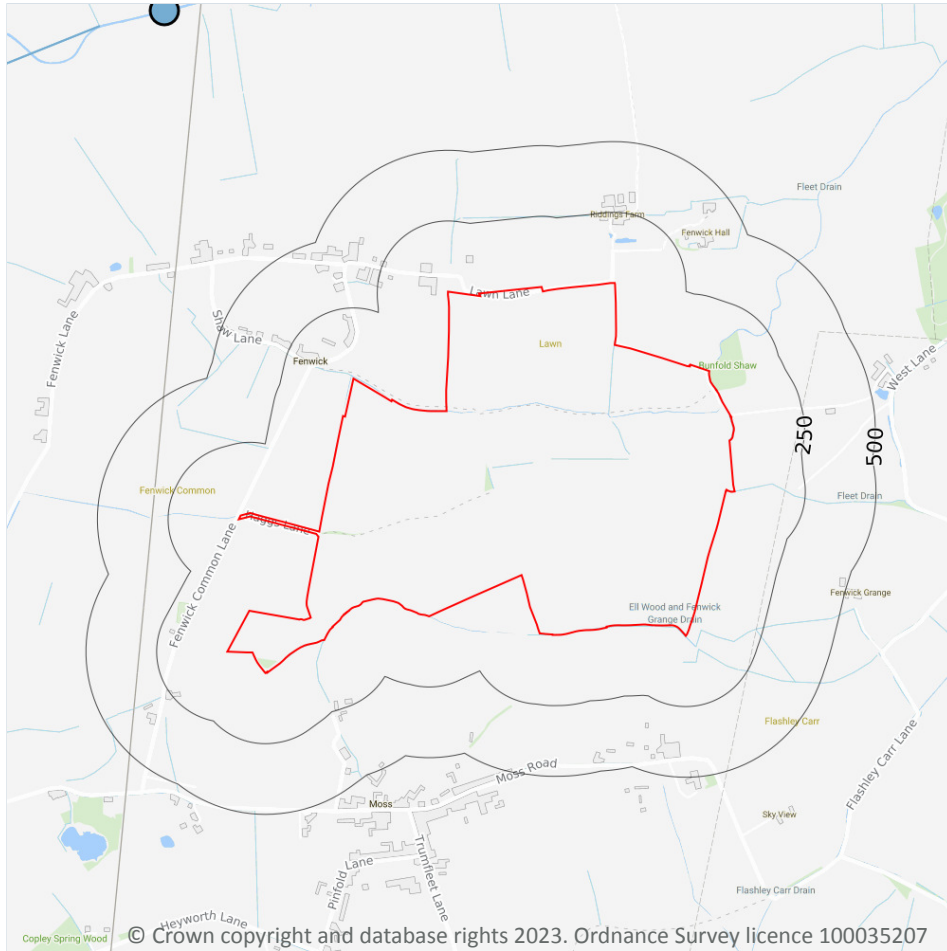
**0**

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

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



## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

0

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.

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

## 5.7 Surface water abstractions

### Records within 2000m

**14**

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 54 >](#)

ID	Location	Details	
-	1218m N	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT C - FENWICK Data Type: Line Name: C & R Clark Easting: 459308 Northing: 417228	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1218m N	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT D - FENWICK Data Type: Line Name: C & R Clark Easting: 459568 Northing: 417302	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1269m N	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT E - FENWICK Data Type: Line Name: C & R Clark Easting: 460174 Northing: 417418	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1269m N	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT F - FENWICK Data Type: Line Name: C & R Clark Easting: 460658 Northing: 417638	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -



ID	Location	Details	
-	1338m N	Status: Historical Licence No: 2/27/09/163 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 460400 Northing: 417500	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 731 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: -
1	1414m NW	Status: Active Licence No: 2/27/09/203/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT - BALNE - GOOLE Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 458912 Northing: 417130	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 Original Application No: NPS/WR/017376 Original Start Date: 01/04/2015 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1464m N	Status: Historical Licence No: 2/27/09/173 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: C G BAYSTON & SON Easting: 460800 Northing: 417600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 24/03/1998 Expiry Date: 30/12/2006 Issue No: 100 Version Start Date: 24/03/1998 Version End Date: -
-	1467m NE	Status: Historical Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: - Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
-	1467m NE	Status: Active Licence No: 2/27/09/117 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT - BALNE Data Type: Point Name: W M FALKINGHAM (BALNE) LTD Easting: 461300 Northing: 417400	Annual Volume (m <sup>3</sup> ): 13638 Max Daily Volume (m <sup>3</sup> ): 411 Original Application No: 5378 Original Start Date: 21/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -





ID	Location	Details	
D	1536m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT B - FENWICK Data Type: Line Name: C & R Clark Easting: 458685 Northing: 417074	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
D	1536m NW	Status: Active Licence No: NE/027/0009/032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT POINT A - FENWICK Data Type: Line Name: C & R Clark Easting: 457771 Northing: 416707	Annual Volume (m <sup>3</sup> ): 48000 Max Daily Volume (m <sup>3</sup> ): 900 Original Application No: NPS/WR/030912 Original Start Date: 25/06/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 25/06/2019 Version End Date: -
-	1543m NW	Status: Historical Licence No: 2/27/09/166 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT Data Type: Point Name: WOODWARDS (BALNE) LTD Easting: 458800 Northing: 417200	Annual Volume (m <sup>3</sup> ): 22730 Max Daily Volume (m <sup>3</sup> ): 523 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: -
-	1593m W	Status: Active Licence No: NE/027/0009/013 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER WENT OLD COURSE Data Type: Line Name: FRIENDSHIP ESTATES LTD Easting: 457150 Northing: 415520	Annual Volume (m <sup>3</sup> ): 7273 Max Daily Volume (m <sup>3</sup> ): 218 Original Application No: NPS/WR/009980 Original Start Date: 29/05/2012 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 29/05/2012 Version End Date: -
-	1882m W	Status: Active Licence No: NE/027/0009/013 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: GREAT COMMON DRAIN Data Type: Line Name: FRIENDSHIP ESTATES LTD Easting: 457100 Northing: 415400	Annual Volume (m <sup>3</sup> ): 7273 Max Daily Volume (m <sup>3</sup> ): 218 Original Application No: NPS/WR/009980 Original Start Date: 29/05/2012 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 29/05/2012 Version End Date: -

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



## 5.8 Potable abstractions

Records within 2000m

0

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

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

## 5.9 Source Protection Zones

Records within 500m

0

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

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

## 5.10 Source Protection Zones (confined aquifer)

Records within 500m

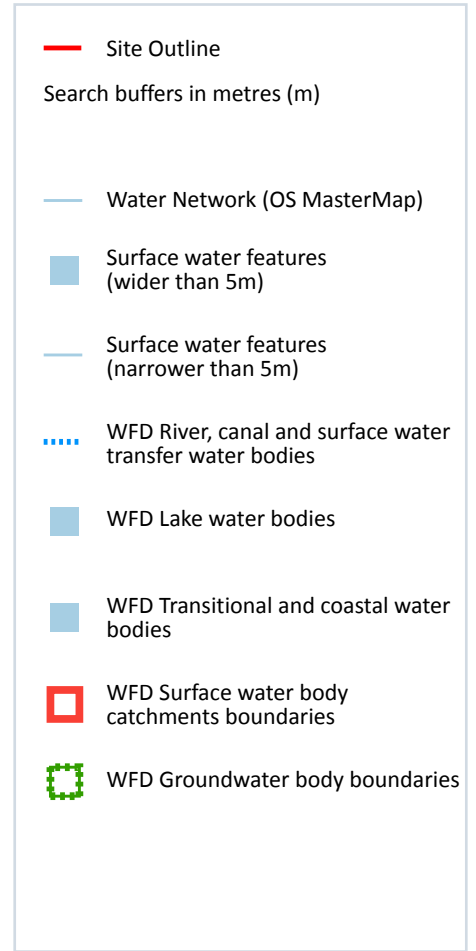
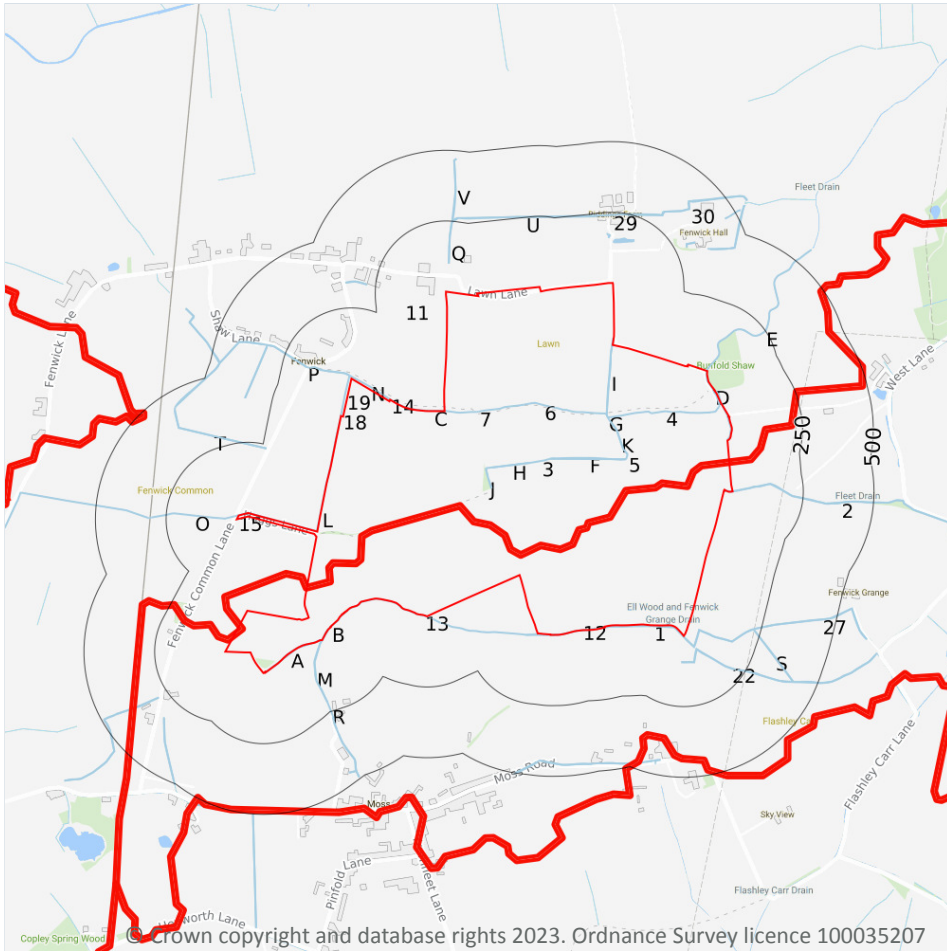
0

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

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

53

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 59 >](#)

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)	Ell Wood and Fenwick Grange Drain

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)	Fleet Drain
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)	Fenwick Common Drain
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)	Fenwick Common Drain
7	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fleet Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fleet Drain
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)	Fenwick 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)	-



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.	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)	-
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)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
14	1m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
15	1m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
M	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	4m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
N	6m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
19	8m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
O	10m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Fenwick Common Drain
P	12m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	65m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	100m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	215m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
27	224m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	224m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
T	235m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	239m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	240m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	246m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	247m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*



## 6.2 Surface water features

**Records within 250m**

**20**

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 59 >](#)

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

**Records on site**

**2**

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

Features are displayed on the Hydrology map on [page 59 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
11	On site	River	Went from Blowell Drain to the River Don	GB104027064260	Don Lower	Don and Rother
12	On site	River	Don from Mill Dyke to River Ouse	GB104027064243	Don Lower	Don and Rother

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

## 6.4 WFD Surface water bodies

**Records identified**

**2**

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

Features are displayed on the Hydrology map on [page 59 >](#)





ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1205m E	River	Don from Mill Dyke to River Ouse	<a href="#">GB104027064243</a> ↗	Moderate	Fail	Moderate	2019
-	1211m N	River	Went from Blowell Drain to the River Don	<a href="#">GB104027064260</a> ↗	Moderate	Fail	Moderate	2019

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

## 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>1</b>
------------------------	----------

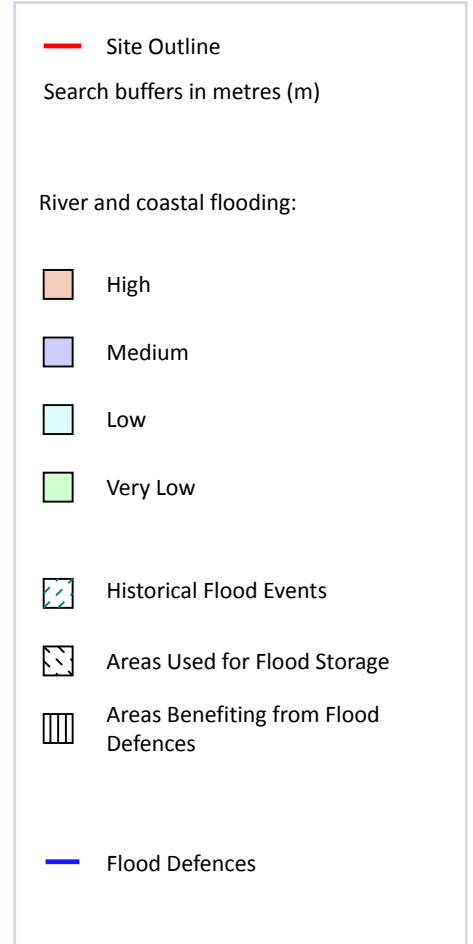
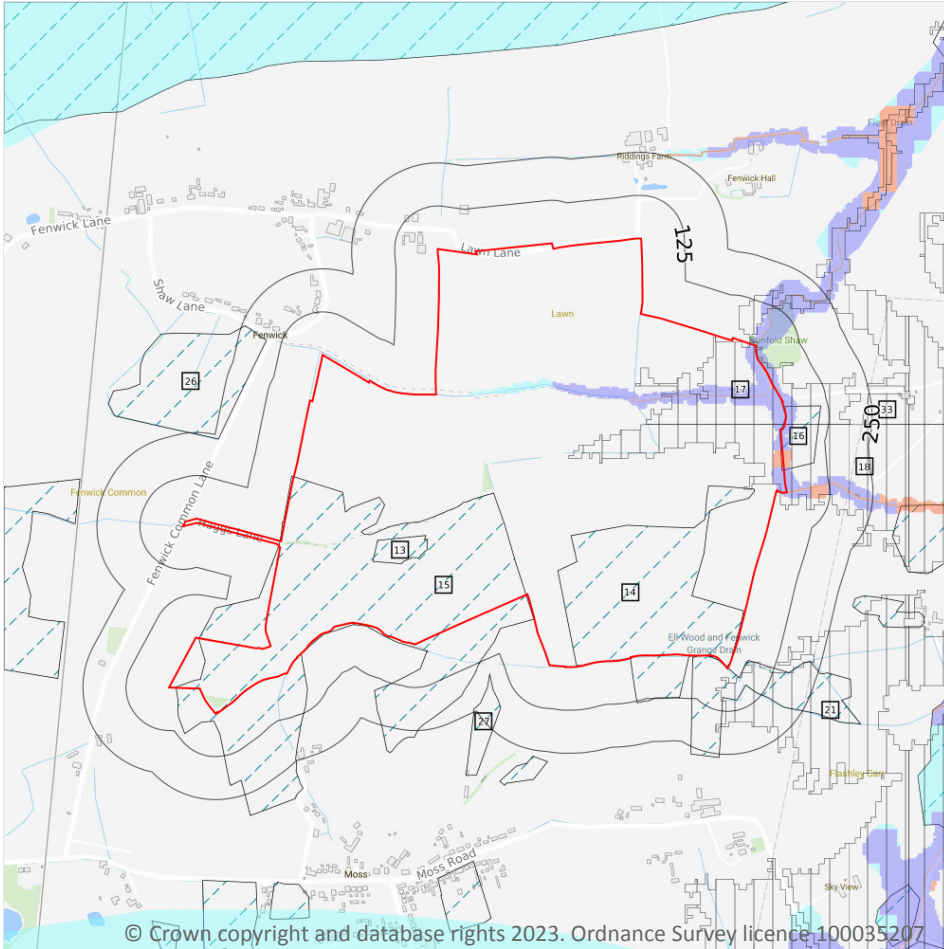
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 59](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
J	On site	Aire & Don Sherwood Sandstone.	<a href="#">GB40401G701000</a> ↗	Poor	Poor	Poor	2019

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

## 7 River and coastal flooding



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

#### Records within 50m

34

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 66](#) >

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

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

## 7.2 Historical Flood Events

Records within 250m	6
---------------------	---

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 66 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
13	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
14	On site	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
15	On site	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
16	On site	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
26	169m NW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
27	169m S	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.*

## 7.3 Flood Defences

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

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



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

## 7.4 Areas Benefiting from Flood Defences

**Records within 250m**

**4**

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 66](#) >

ID	Location	
17	On site	Area benefiting from flood defences
18	On site	Area benefiting from flood defences
21	28m SE	Area benefiting from flood defences
33	224m E	Area benefiting from flood defences

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

## 7.5 Flood Storage Areas

**Records within 250m**

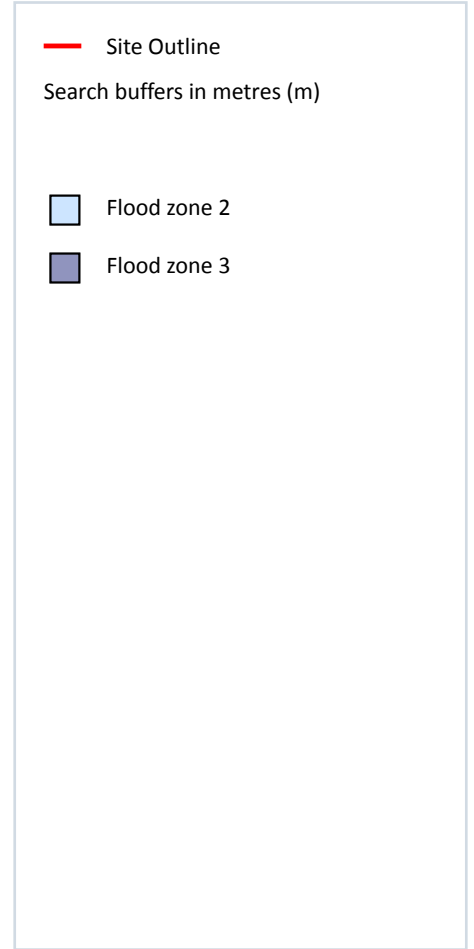
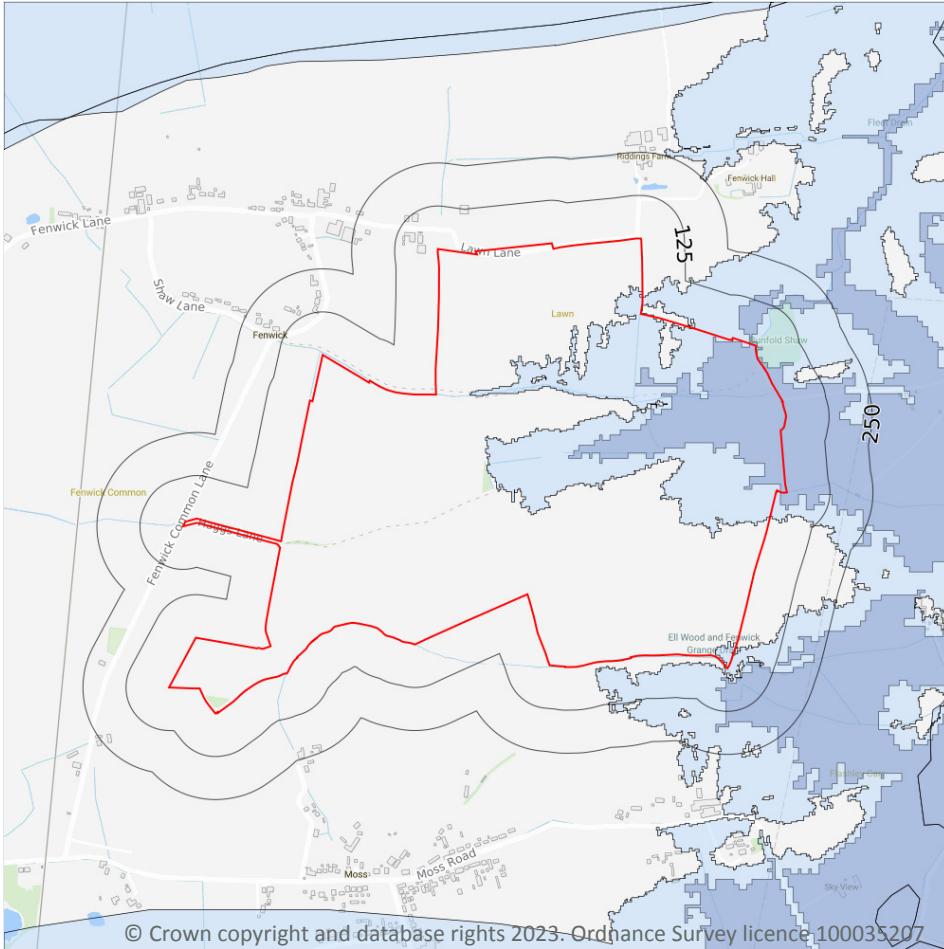
**0**

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

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



## River and coastal flooding - Flood Zones



### 7.6 Flood Zone 2

Records within 50m

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 66](#) >

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

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

## 7.7 Flood Zone 3

Records within 50m

1

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

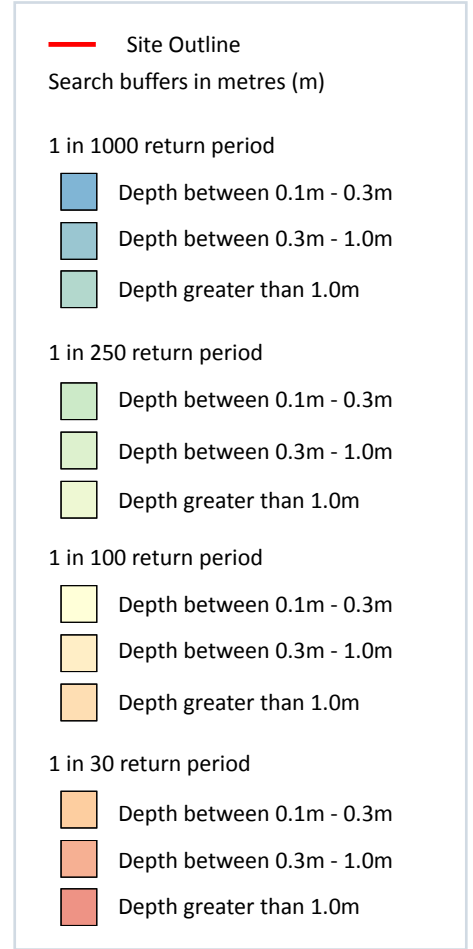
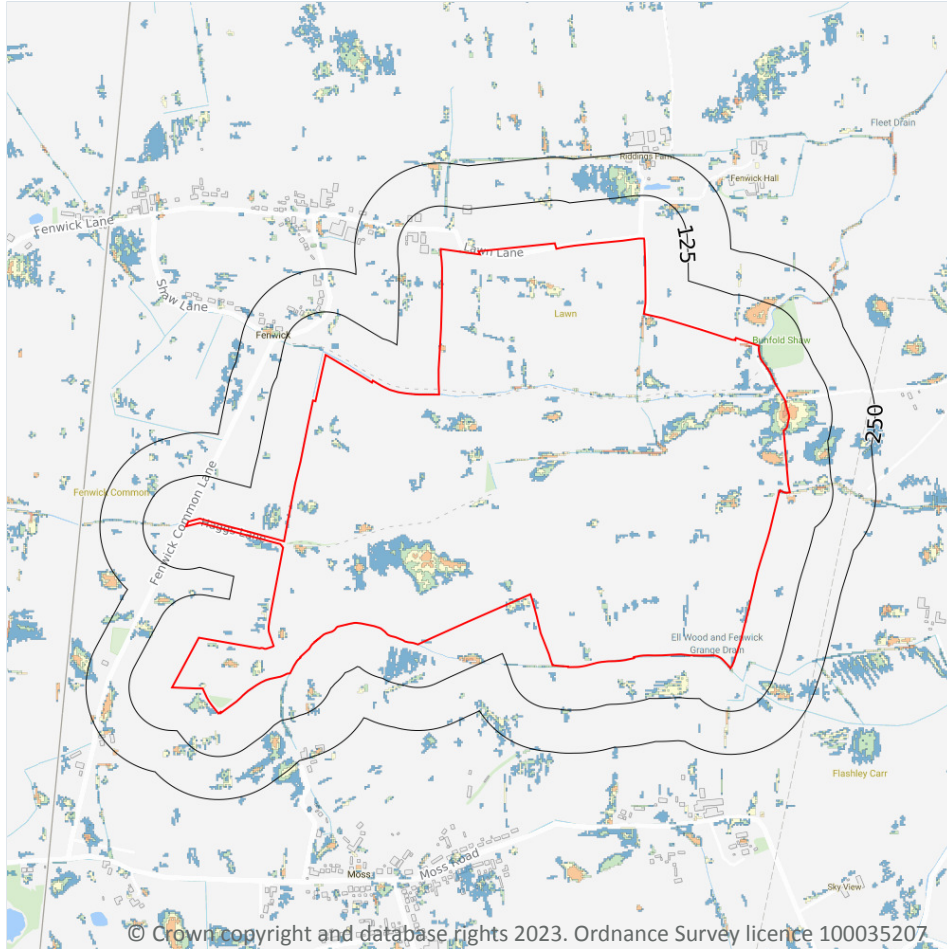
Features are displayed on the River and coastal flooding map on [page 66](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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



## 8 Surface water flooding



### 8.1 Surface water flooding

Highest risk on site

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 71 >](#)

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

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

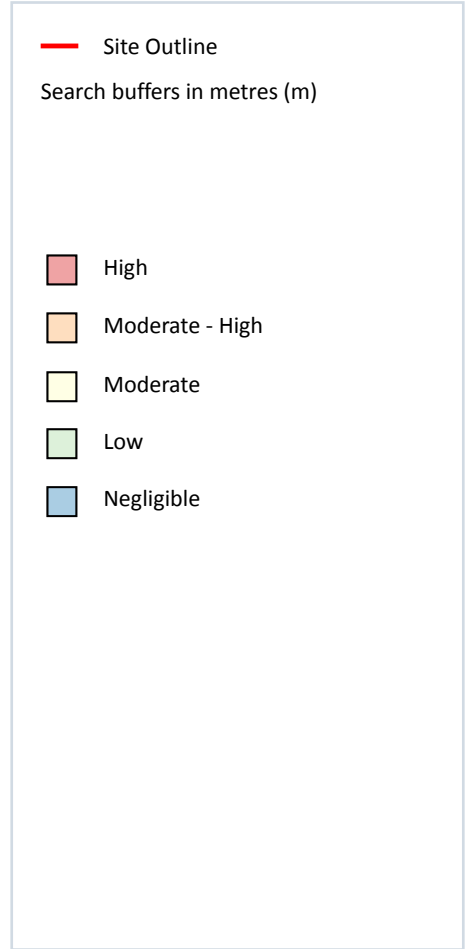
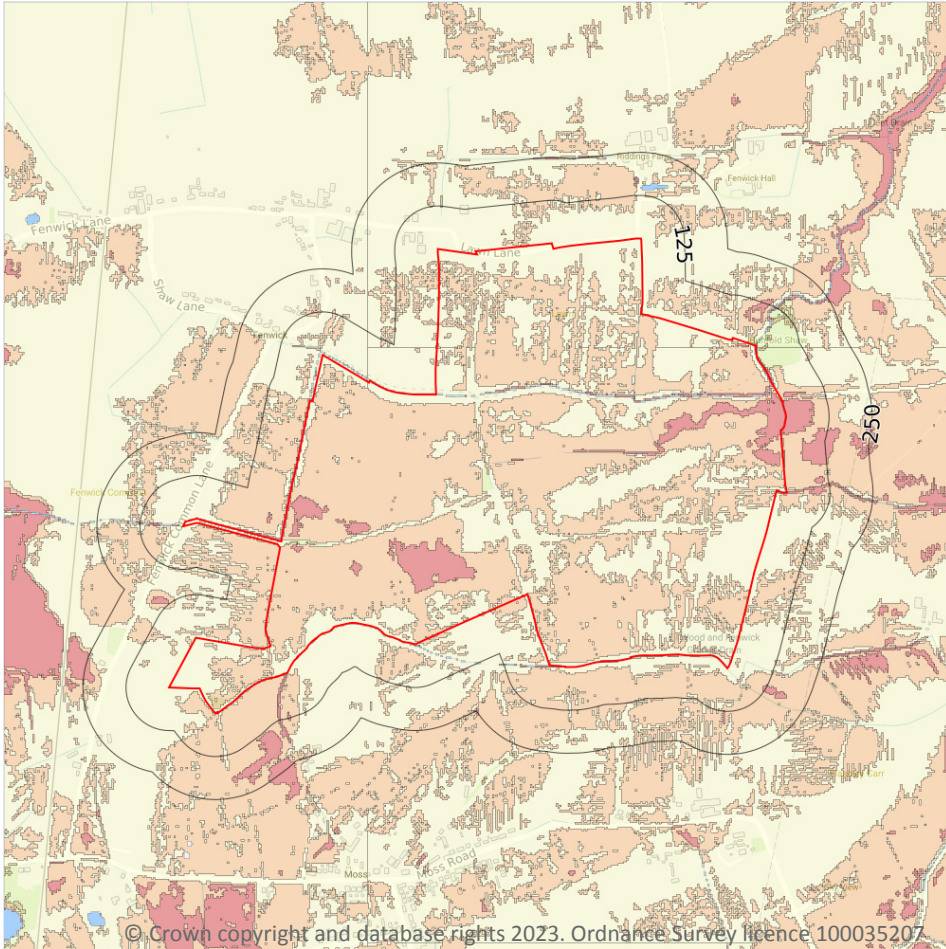
Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

*This data is sourced from Ambiental Risk Analytics.*





## 9 Groundwater flooding



### 9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

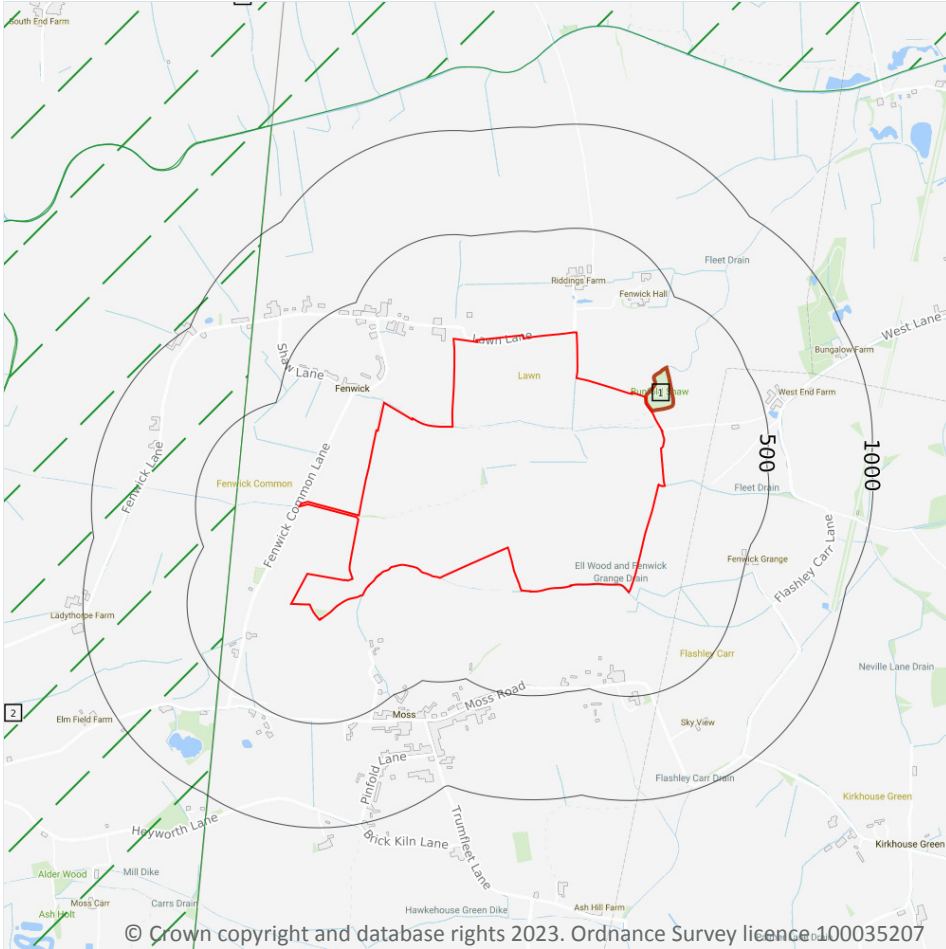
High

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

Features are displayed on the Groundwater flooding map on [page 73 >](#)

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



### 10.1 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.*

## 10.2 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.*

## 10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

## 10.4 Special Protection Areas (SPA)

Records within 2000m

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.*

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



## 10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

## 10.7 Designated Ancient Woodland

Records within 2000m

1

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 74 >](#)

ID	Location	Name	Woodland Type
1	On site	Bunfold Shaw	Ancient & Semi-Natural Woodland

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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

## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*



## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 74 >](#)

ID	Location	Name	Local Authority name
2	307m W	South and West Yorkshire	Doncaster
3	1214m N	South and West Yorkshire	Selby

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

## 10.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

4

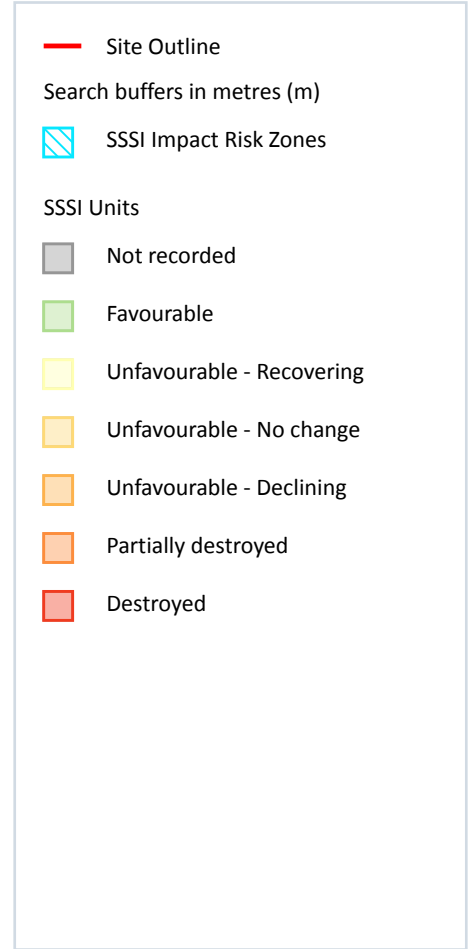
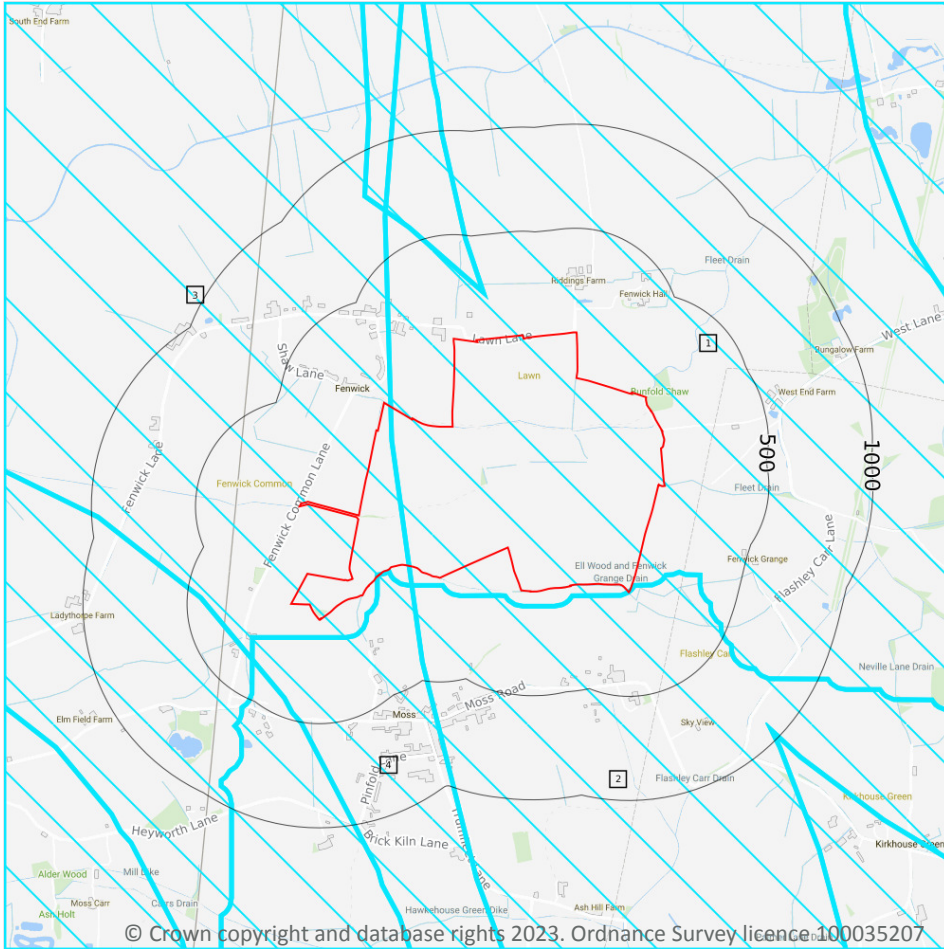
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing
On site	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
On site	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
1800m SE	LOWER DON NVZ	Surface Water	298	Existing

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



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

Records on site

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 79 >](#)

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>
3	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
4	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p>

*This data is sourced from Natural England.*

## 10.18 SSSI Units

**Records within 2000m**

**0**

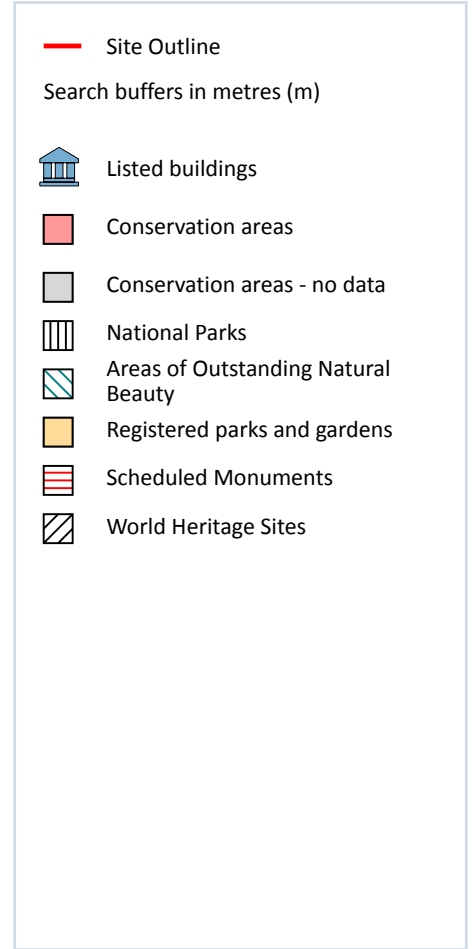
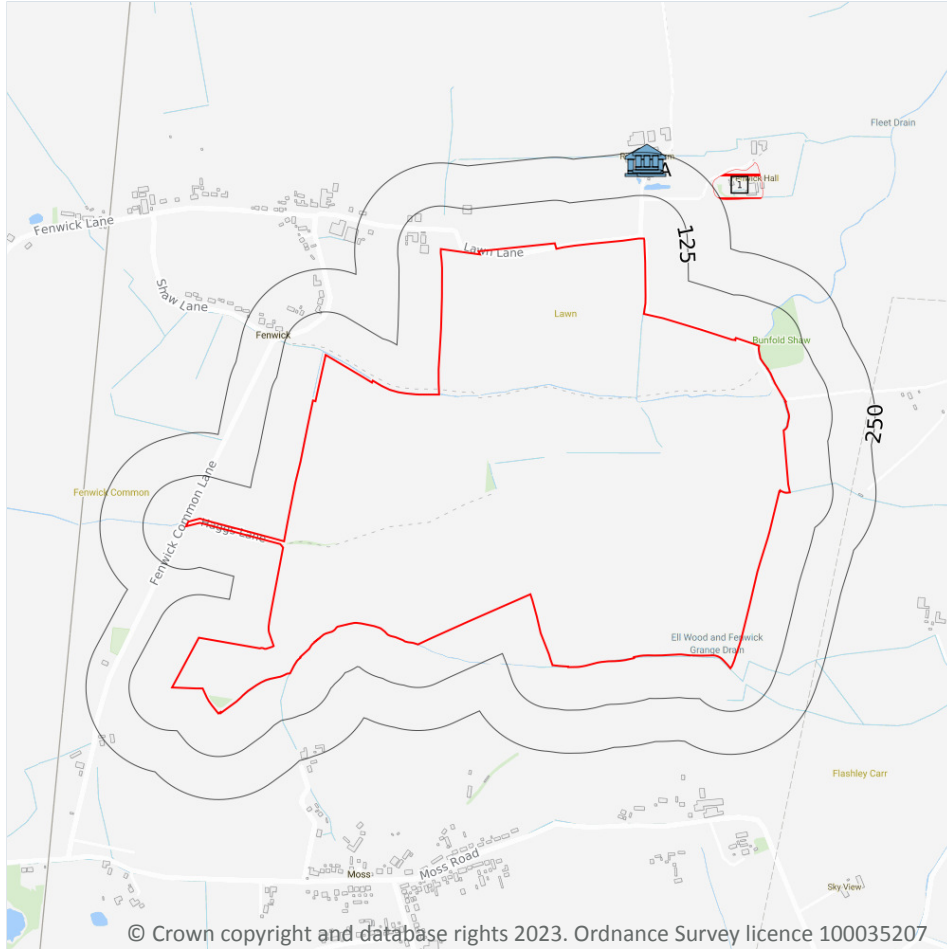
Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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





## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

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

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

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

## 11.3 National Parks

Records within 250m

0

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

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

## 11.4 Listed Buildings

Records within 250m

3

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 81 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
A	223m N	Dovecote And Attached Outbuilding On West Side Of Farmyard At Riddings Farm	II	1151611	29/09/1987
A	224m N	Lily Hall (At Riddings Farm)	II	1151609	29/09/1987
A	234m N	Barn And Granary (At Riddings Farm) Immediately To North West Of Lily Hall	II	1151610	29/09/1987

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



## 11.5 Conservation Areas

Records within 250m

0

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

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

## 11.6 Scheduled Ancient Monuments

Records within 250m

1

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.

Features are displayed on the Visual and cultural designations map on [page 81](#) >

ID	Location	Ancient monument name	Reference number
1	242m NE	Fenwick Hall moated site	1012459

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

## 11.7 Registered Parks and Gardens

Records within 250m

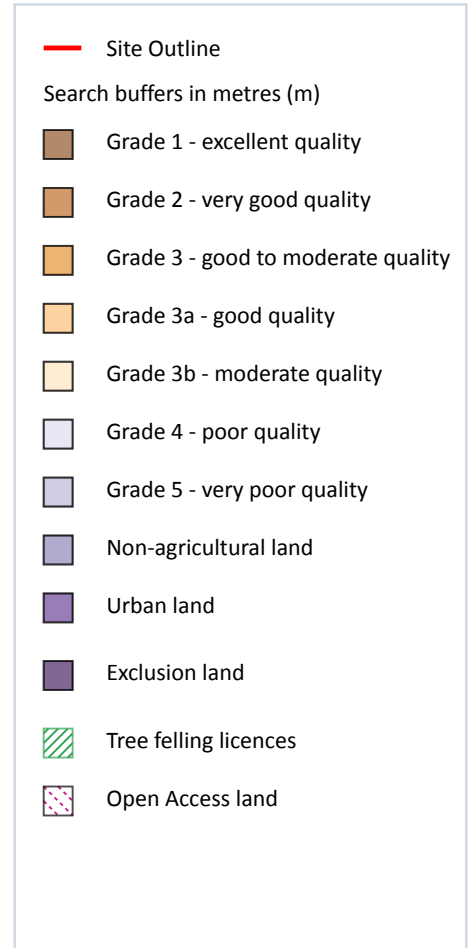
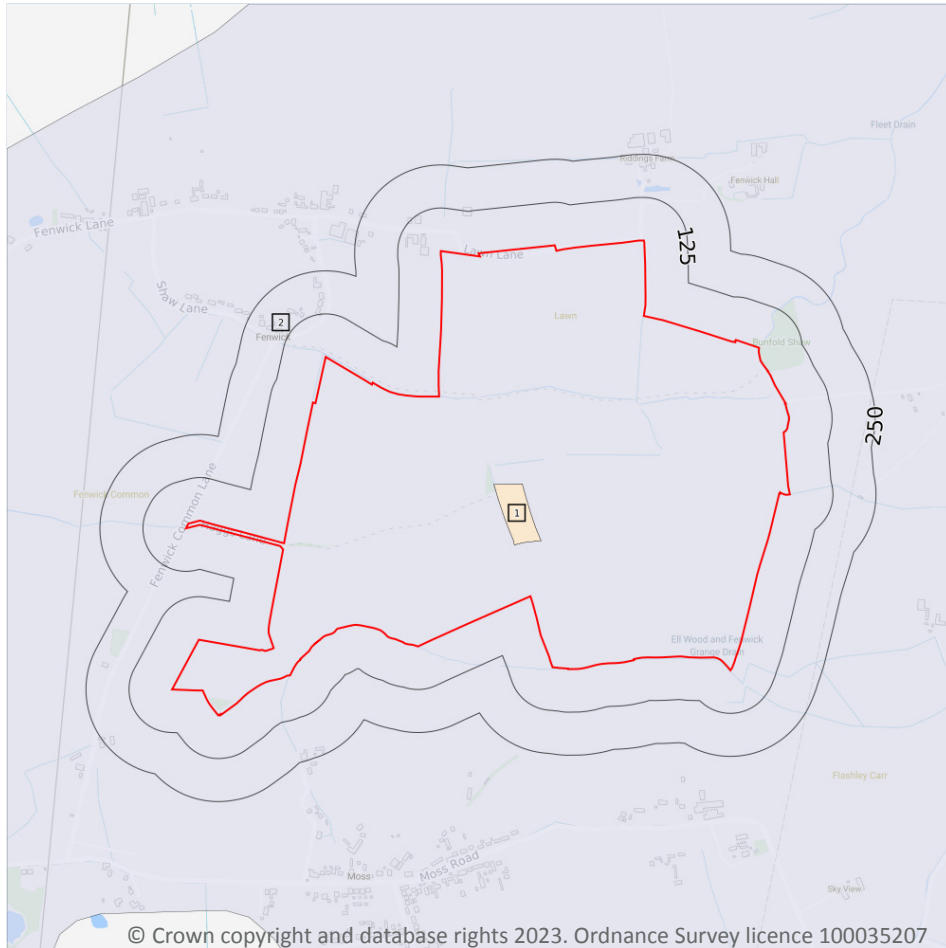
0

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

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



## 12 Agricultural designations



### 12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 84](#) >

ID	Location	Classification	Description
1	On site	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.

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

*This data is sourced from Natural England.*

## 12.2 Open Access Land

**Records within 250m**

**0**

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

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

## 12.3 Tree Felling Licences

**Records within 250m**

**0**

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*



## 12.5 Countryside Stewardship Schemes

**Records within 250m****4**

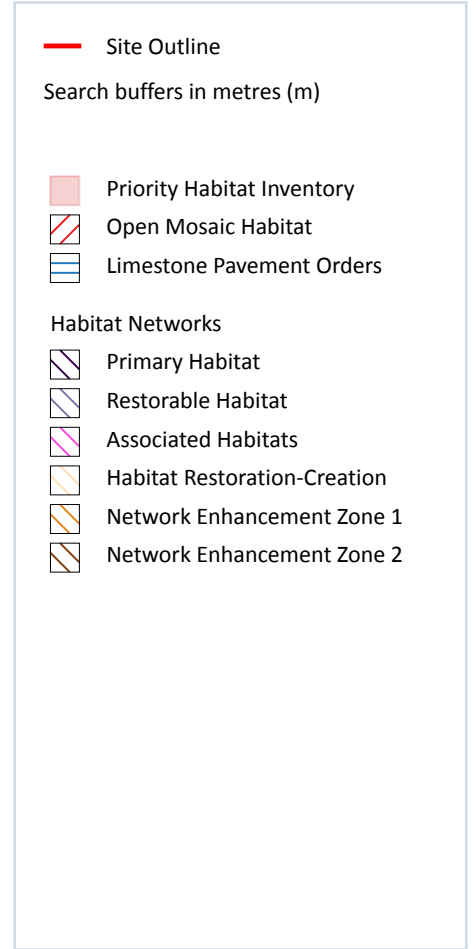
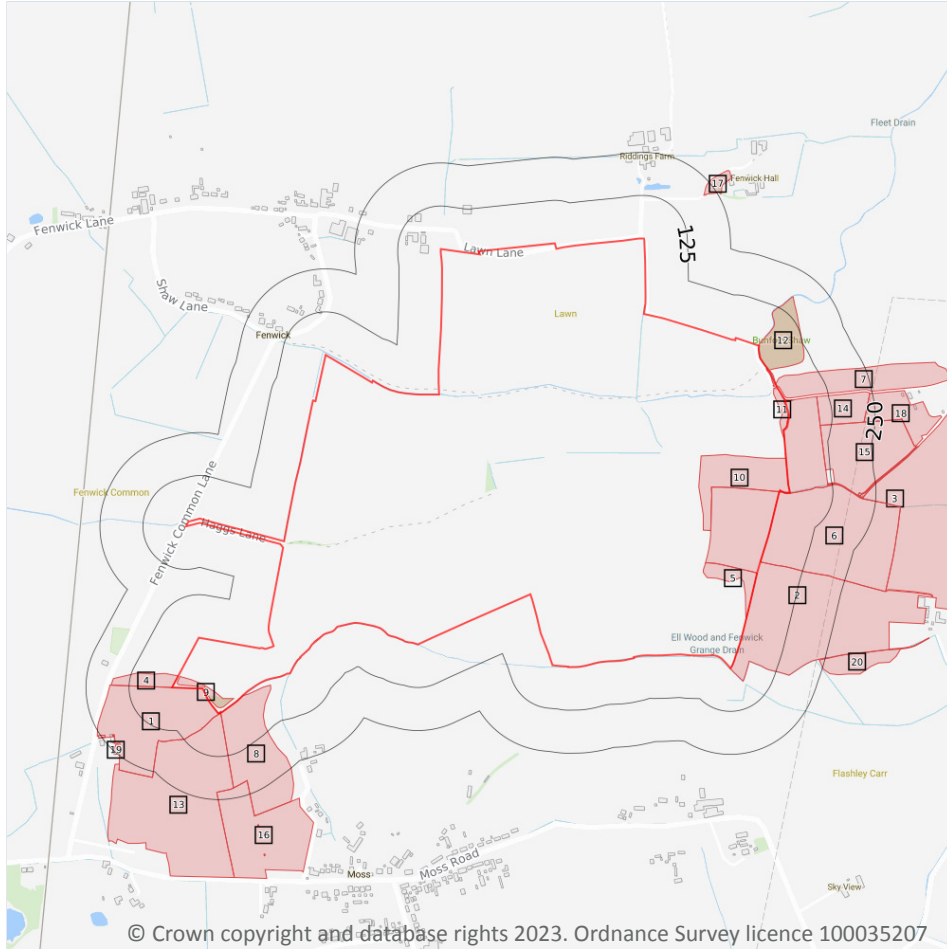
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
On site	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
On site	646534	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
On site	992681	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

*This data is sourced from Natural England.*



## 13 Habitat designations



### 13.1 Priority Habitat Inventory

Records within 250m

20

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 87](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
9	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
10	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
11	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
12	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
14	87m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
15	93m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
16	210m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
17	215m NE	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
18	218m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
19	227m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
20	235m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

**Records within 250m**

**0**

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





*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

Records within 250m

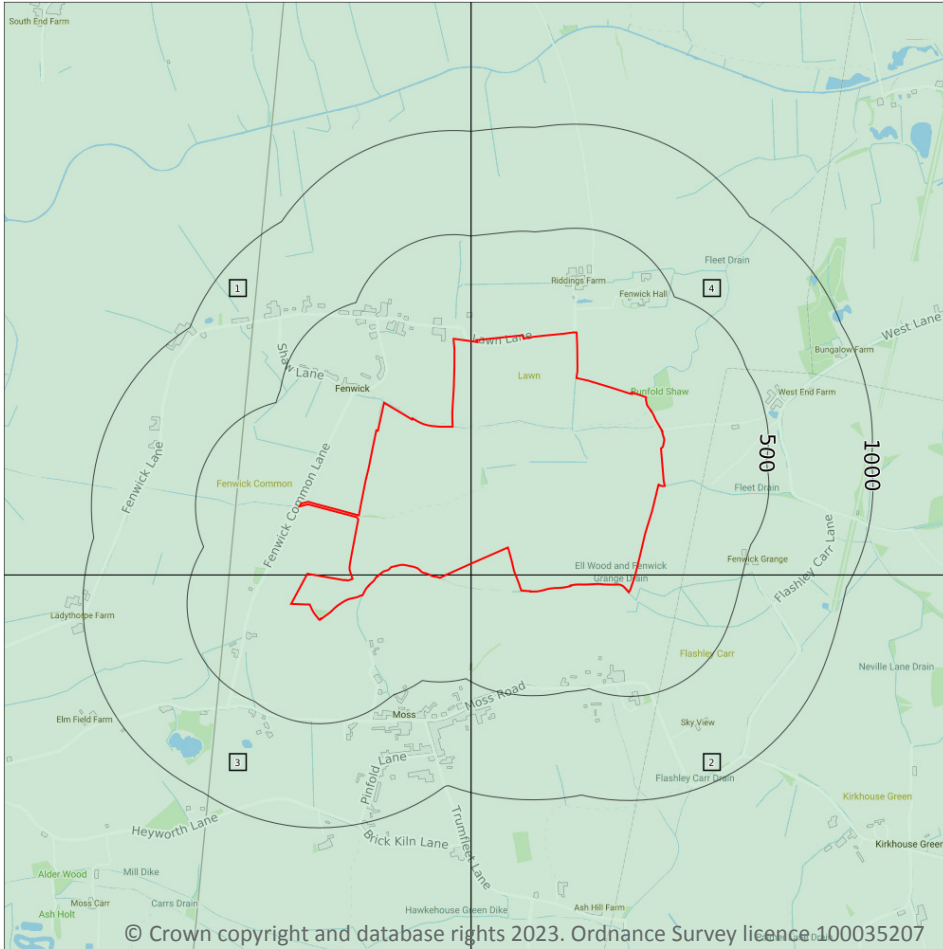
0

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

*This data is sourced from Natural England.*



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



**Site Outline**

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

**Records within 500m**

**4**

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 90](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE51NE
2	On site	No coverage	Full	Full	No coverage	SE61SW
3	On site	No coverage	Full	Full	No coverage	SE51SE
4	On site	No coverage	Full	Full	No coverage	SE61NW



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



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

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

Records within 500m

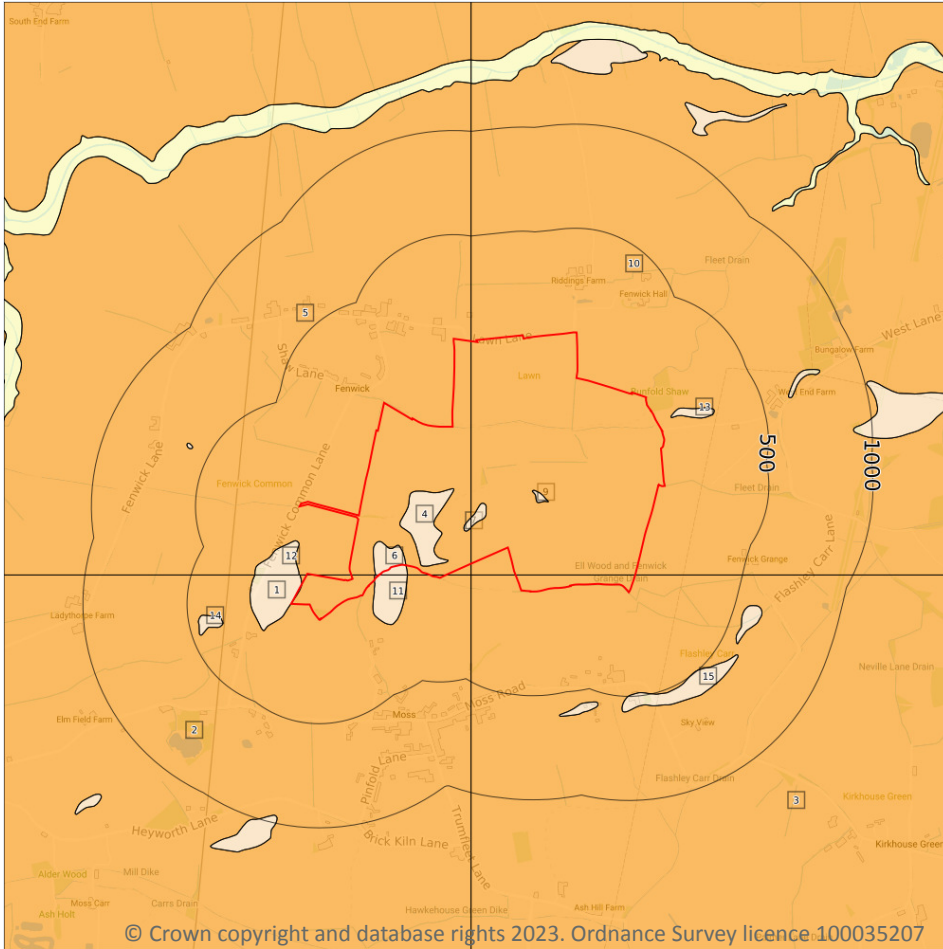
0

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

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



## Geology 1:10,000 scale - Superficial



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

### 14.3 Superficial geology (10k)

Records within 500m

15

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 93](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BREI-S	Brighton Sand Formation - Sand	Sand
2	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
3	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
4	On site	BREI-S	Brighton 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	BREI-S	Breighton Sand Formation - Sand	Sand
8	On site	BREI-S	Breighton Sand Formation - Sand	Sand
9	On site	BREI-S	Breighton Sand Formation - Sand	Sand
10	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
11	On site	BREI-S	Breighton Sand Formation - Sand	Sand
12	33m SW	BREI-S	Breighton Sand Formation - Sand	Sand
13	70m E	BREI-S	Breighton Sand Formation - Sand	Sand
14	340m SW	BREI-S	Breighton Sand Formation - Sand	Sand
15	485m SE	BREI-S	Breighton Sand Formation - Sand	Sand

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

## 14.4 Landslip (10k)

**Records within 500m**

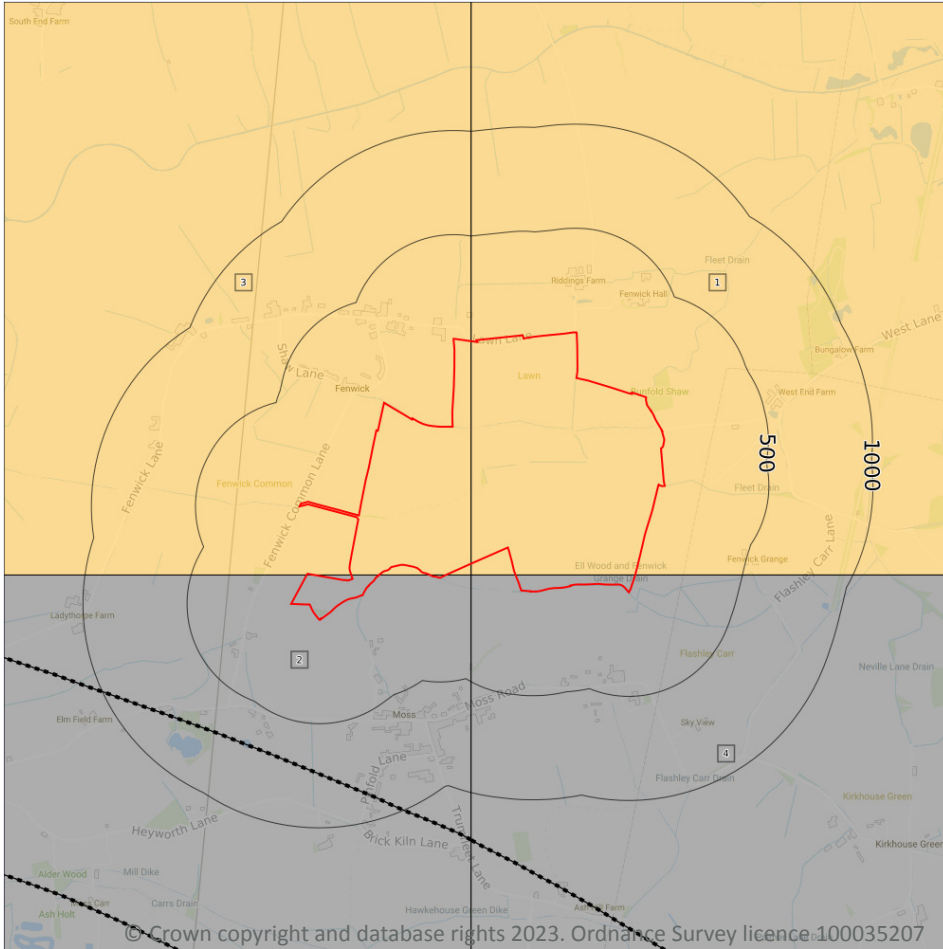
**0**

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

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



## Geology 1:10,000 scale - Bedrock



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

### 14.5 Bedrock geology (10k)

Records within 500m

4

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 95](#) >

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	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
3	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

ID	Location	LEX Code	Description	Rock age
4	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

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

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

Records within 500m

0

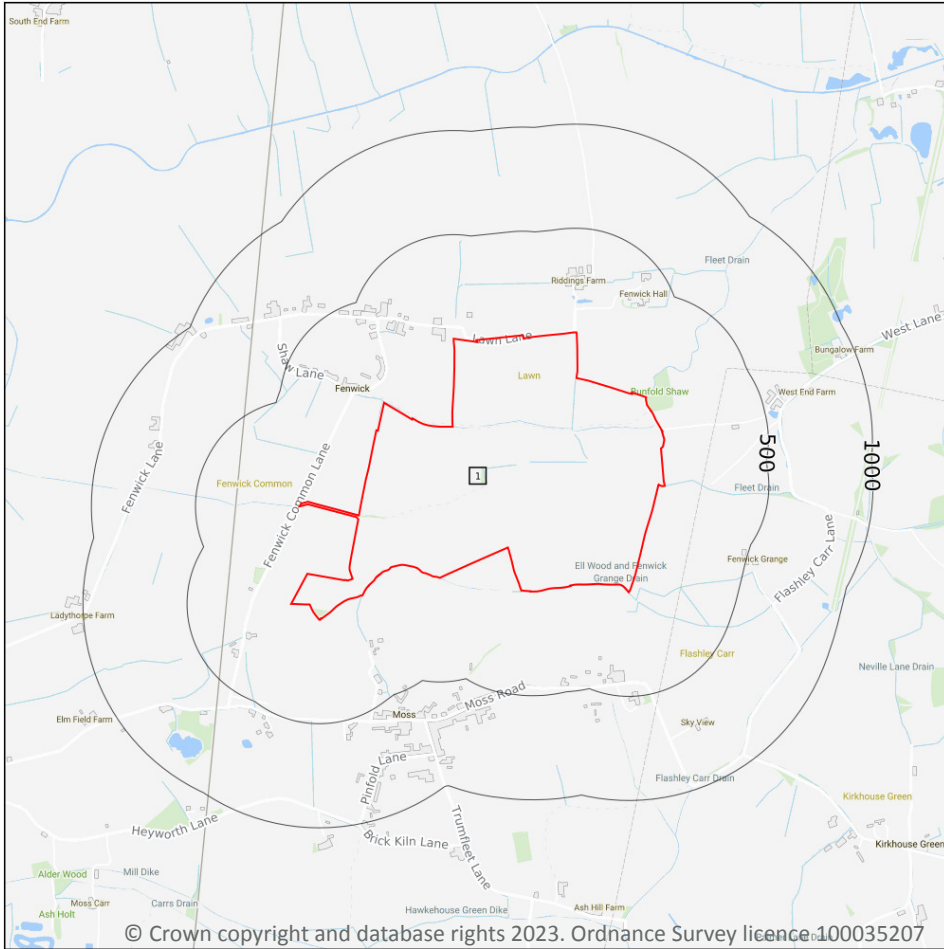
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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





## 15 Geology 1:50,000 scale - Availability



— Site Outline  
 Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 97](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	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

### 15.2 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.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

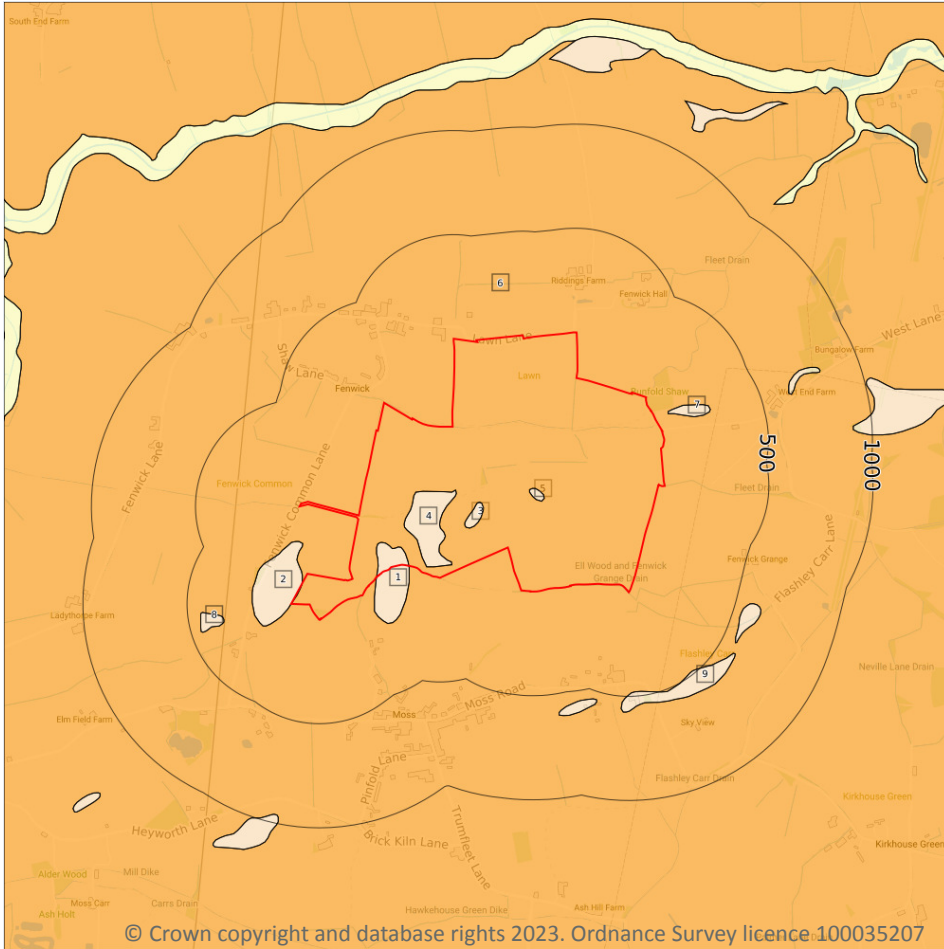
0

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

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



## Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▨ Landslip (50k)

Superficial geology (50k)

Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

9

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 99](#) >

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	BREI-S	BREIGHTON SAND FORMATION	SAND
4	On site	BREI-S	BREIGHTON SAND FORMATION	SAND



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	67m E	BREI-S	BREIGHTON SAND FORMATION	SAND
8	332m SW	BREI-S	BREIGHTON SAND FORMATION	SAND
9	479m SE	BREI-S	BREIGHTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

## 15.5 Superficial permeability (50k)

<b>Records within 50m</b>	<b>12</b>
---------------------------	-----------

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	Intergranular	High	High
On site	Intergranular	High	High
On site	Intergranular	High	High
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
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
19m SW	Intergranular	High	High

This data is sourced from the British Geological Survey.



## 15.6 Landslip (50k)

Records within 500m

0

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

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

## 15.7 Landslip permeability (50k)

Records within 50m

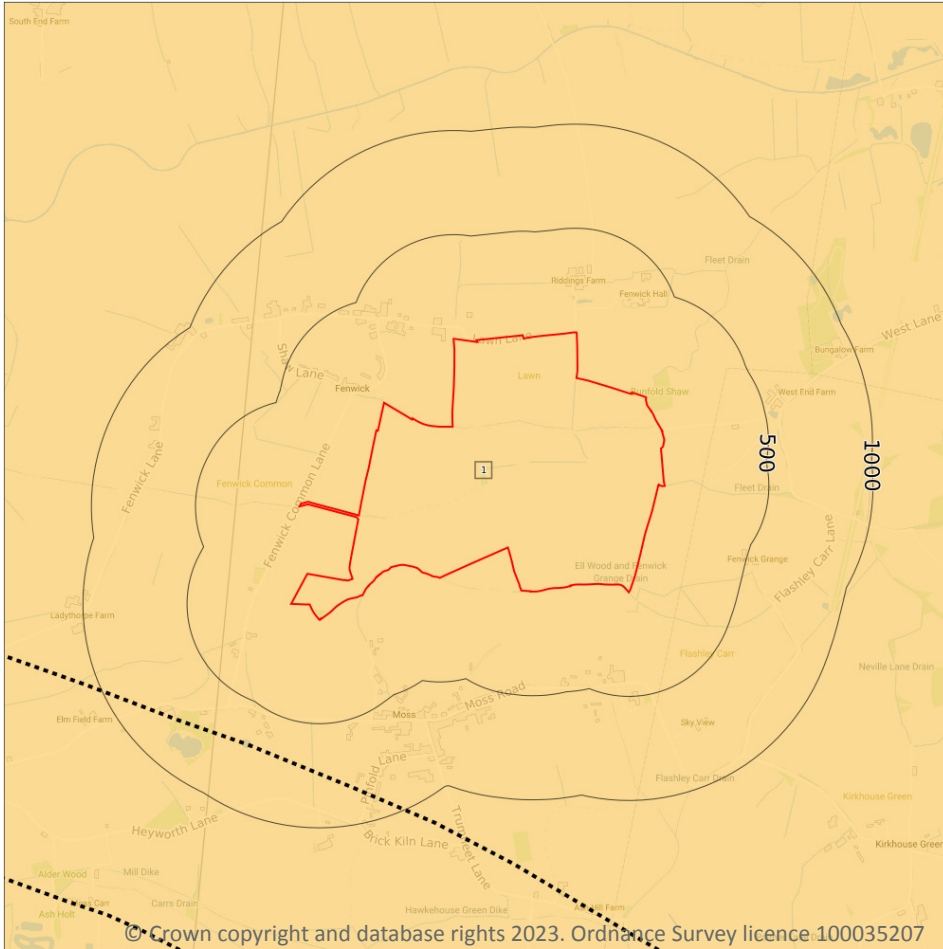
0

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

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



## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

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

### 15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 102 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

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



## 15.9 Bedrock permeability (50k)

Records within 50m

4

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	High
On site	Mixed	High	High
On site	Mixed	High	High
On site	Mixed	High	High

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

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

Records within 500m

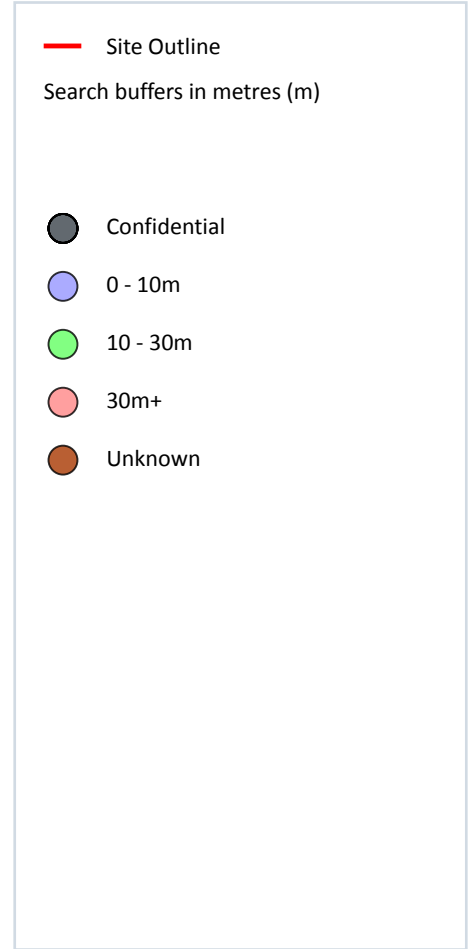
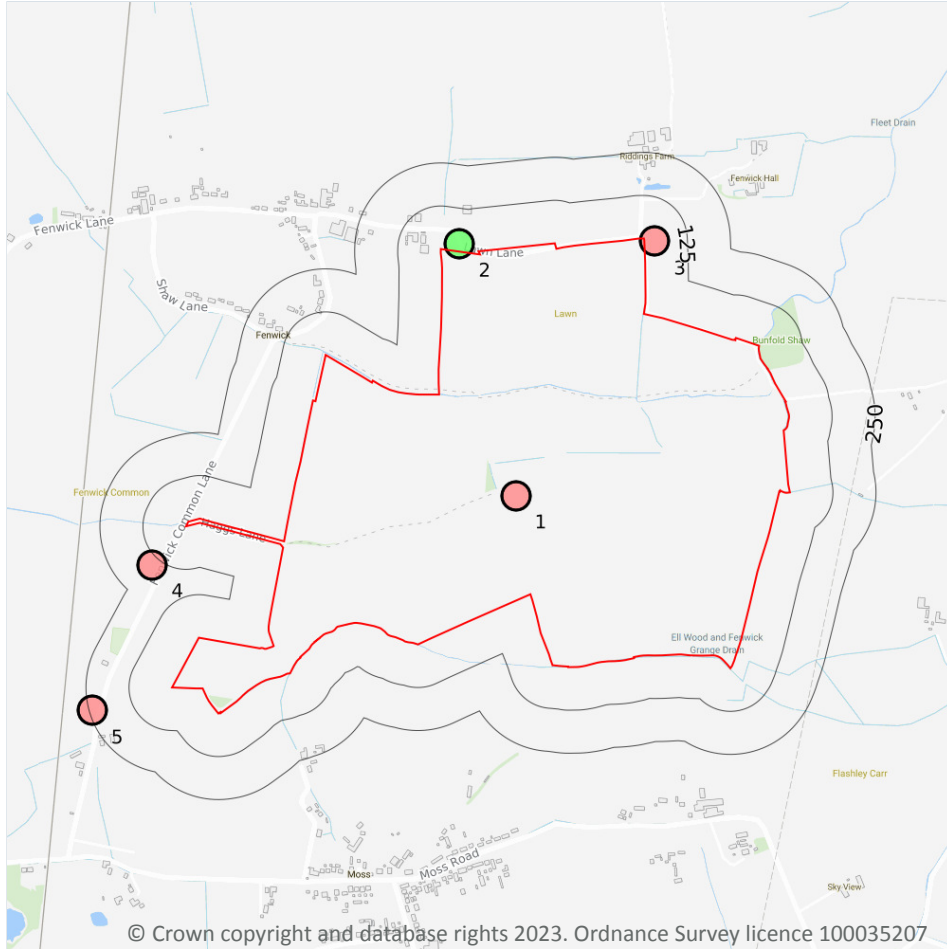
0

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

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



## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

5

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 104](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	460134 415418	FENWICK 1	1069.84	N	<a href="#">18275467</a> ↗
2	22m N	459971 416149	SEISMIC REFLECTION SURVEY	24.38	N	<a href="#">116423</a> ↗

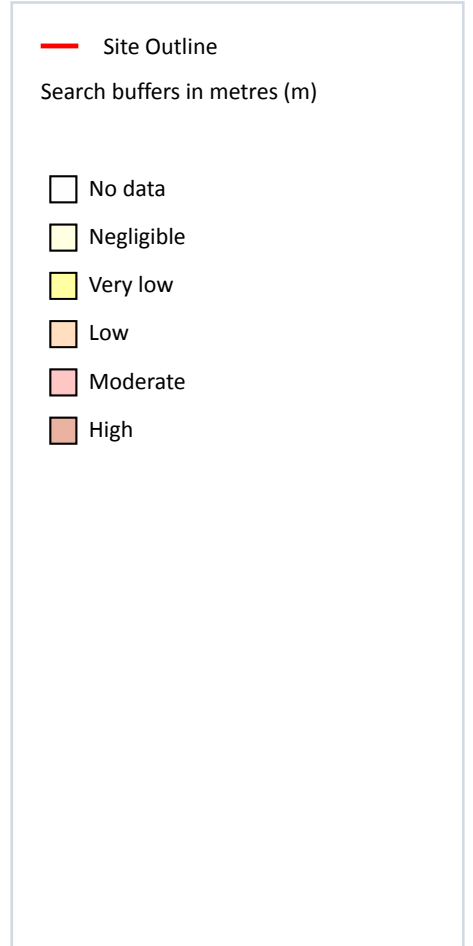
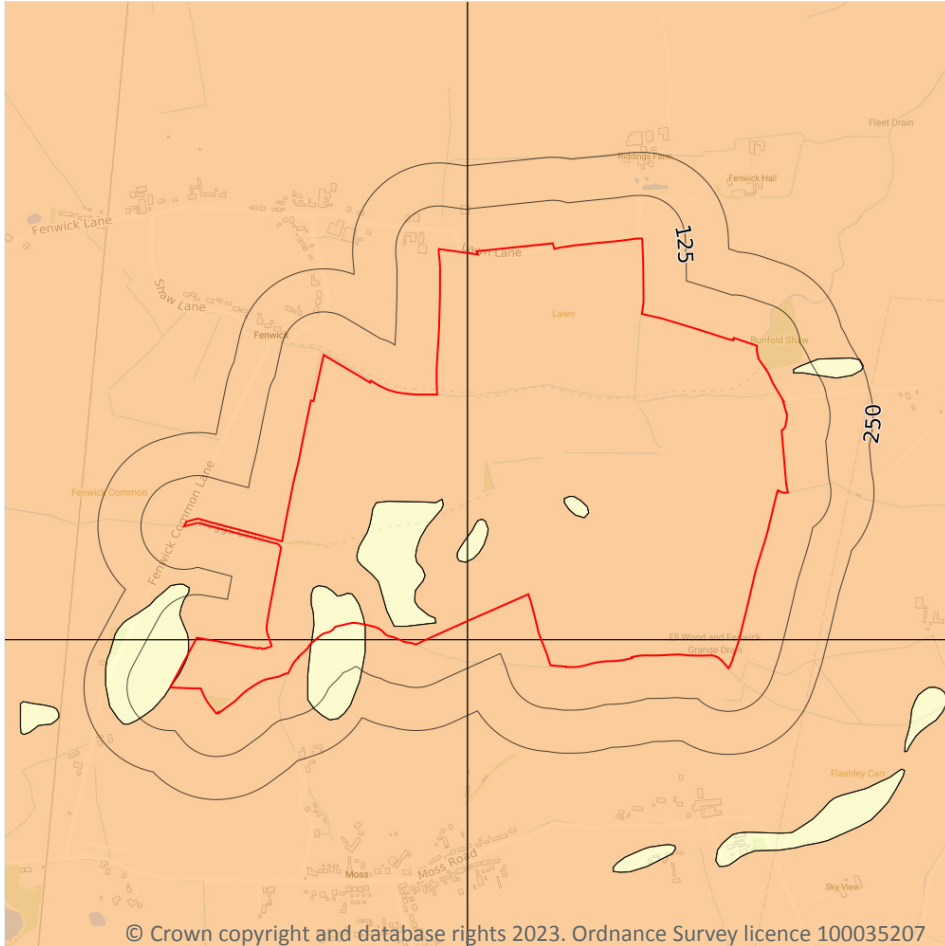


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	30m NE	460538 416157	FENWICK HALL	705.45	N	<a href="#">120995 ↗</a>
4	148m W	459079 415218	FENWICK COMMON LANE	478.74	N	<a href="#">116435 ↗</a>
5	242m SW	458904 414795	FENWICK COMMON	254.2	N	<a href="#">116525 ↗</a>

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



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 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).

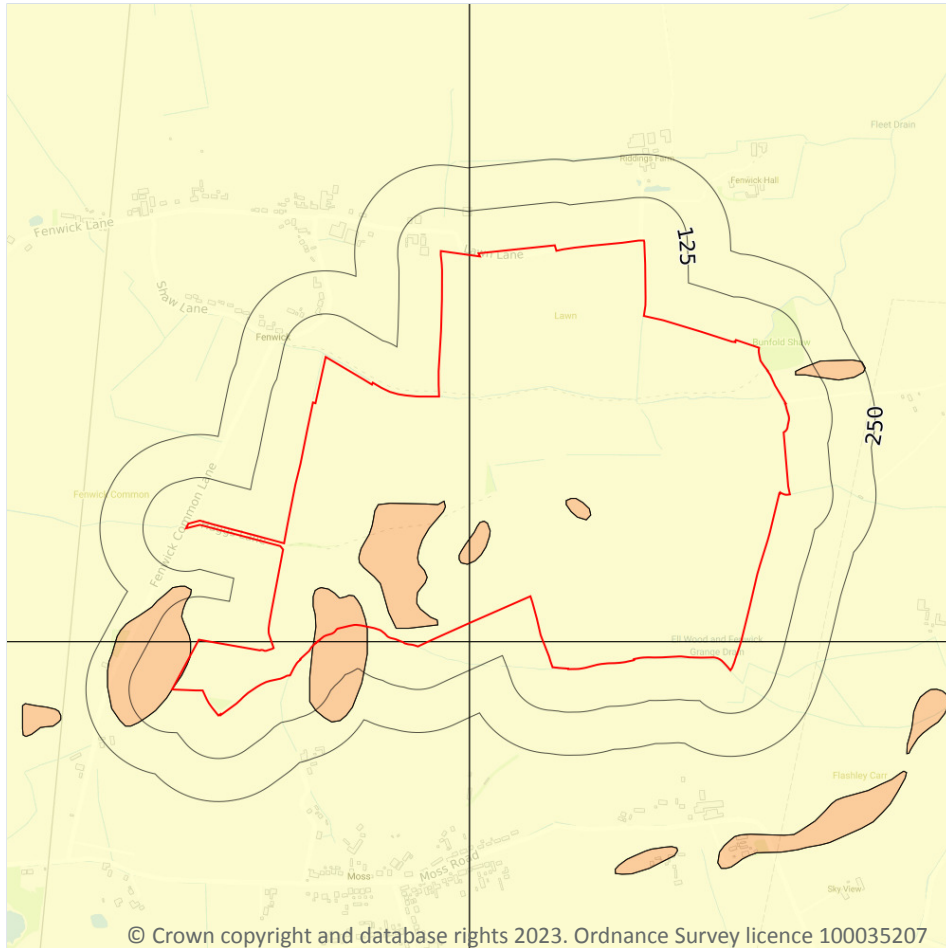
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 106](#) >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Low	Ground conditions predominantly medium plasticity.
19m SW	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

### 17.2 Running sands

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 108](#) >

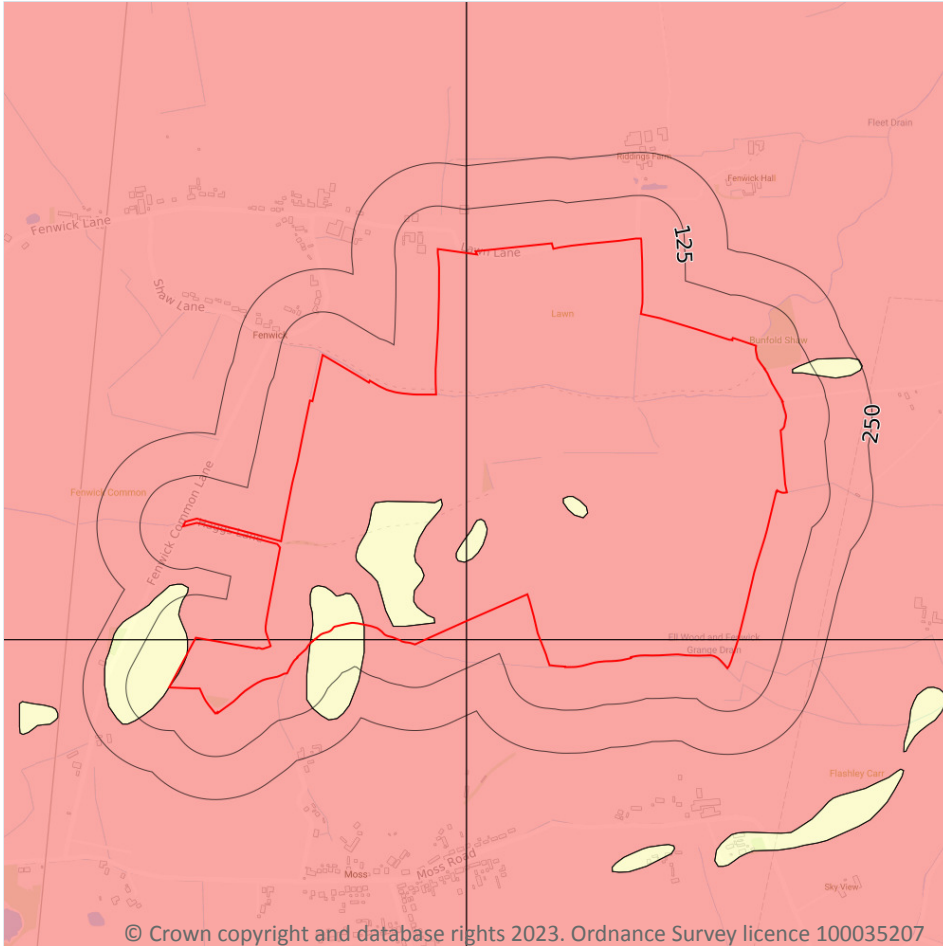
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
<b>On site</b>	<b>Low</b>	<b>Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.</b>
19m SW	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



### 17.3 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 110](#) >

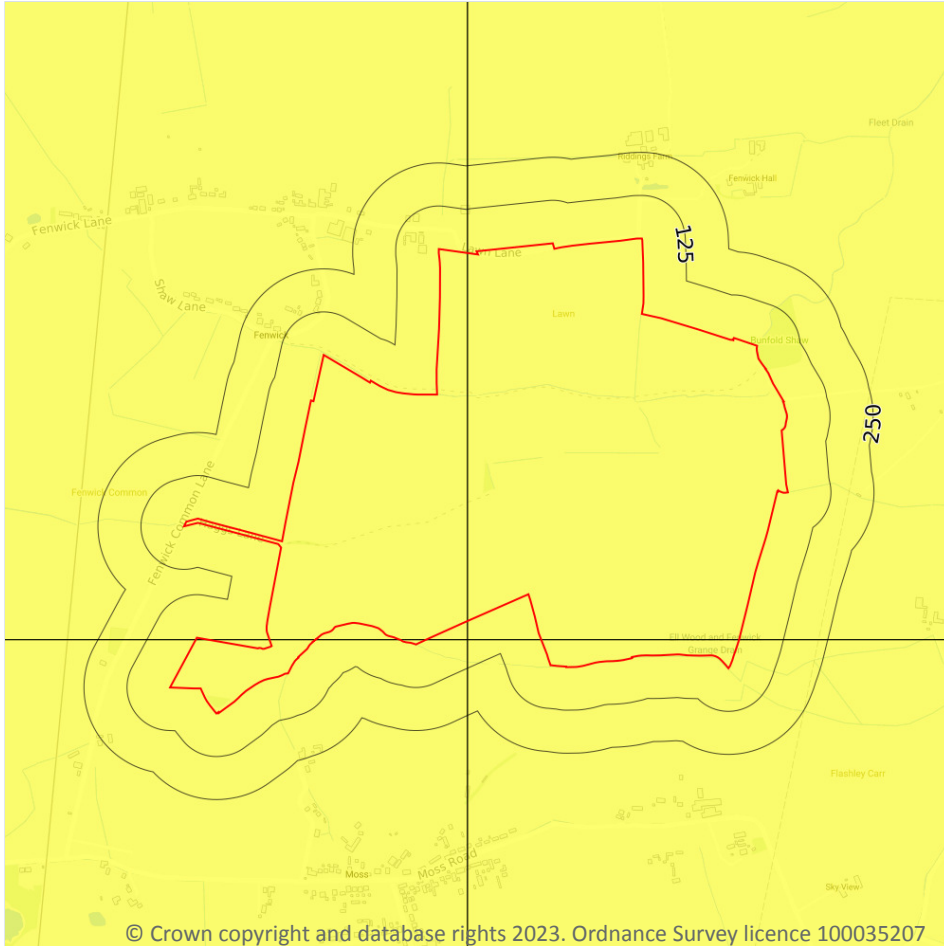
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

Location	Hazard rating	Details
19m SW	Negligible	Compressible strata are not thought to occur.

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



## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

Records within 50m

1

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

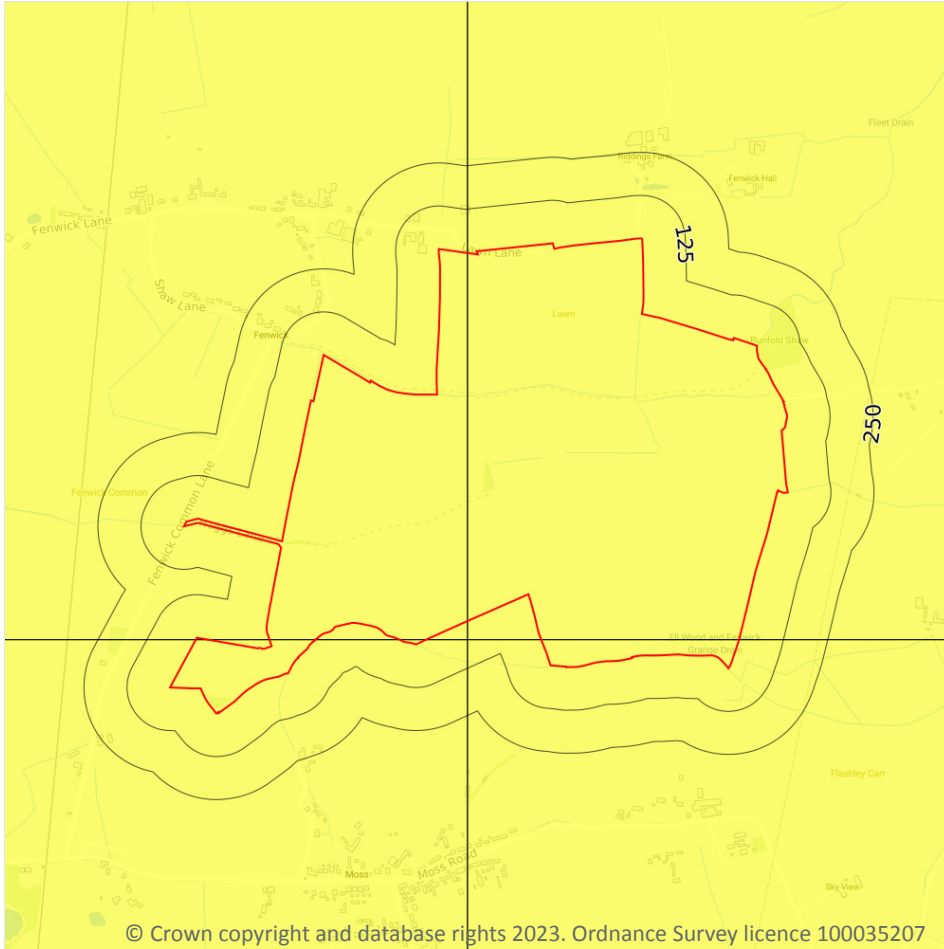
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 112 >](#)

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

### 17.5 Landslides

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 113](#) >

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.*



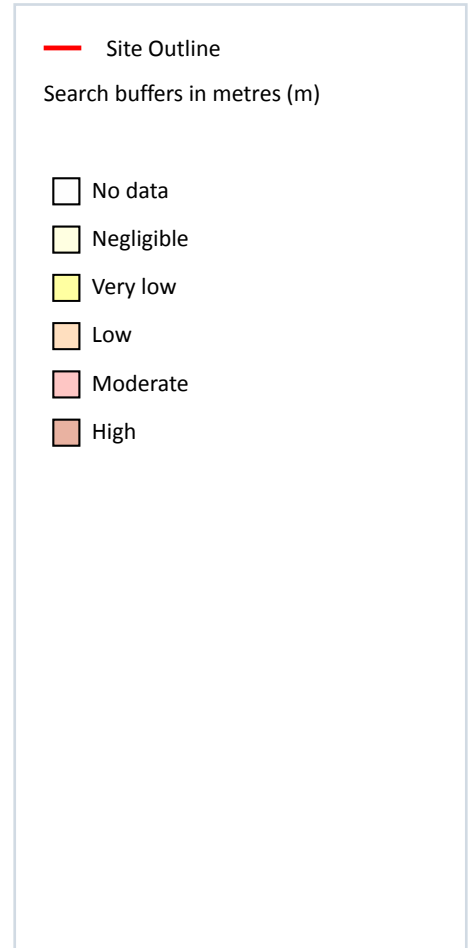
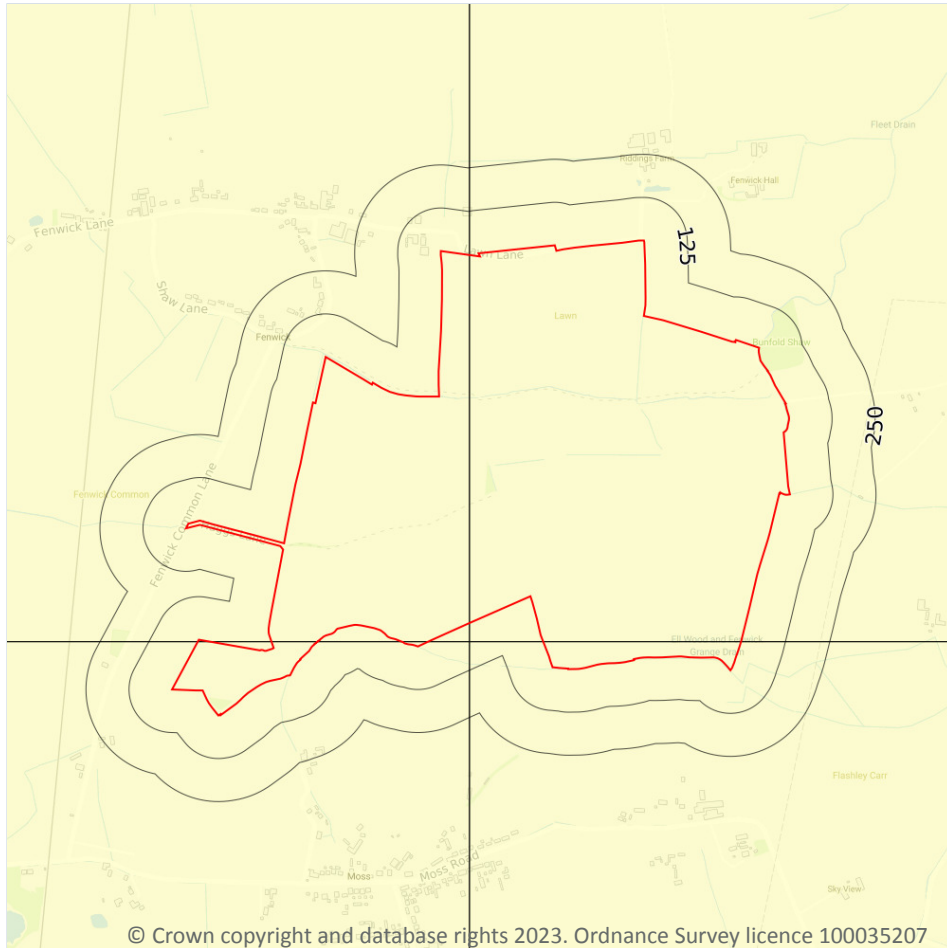
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

Date: 31 July 2023

## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

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

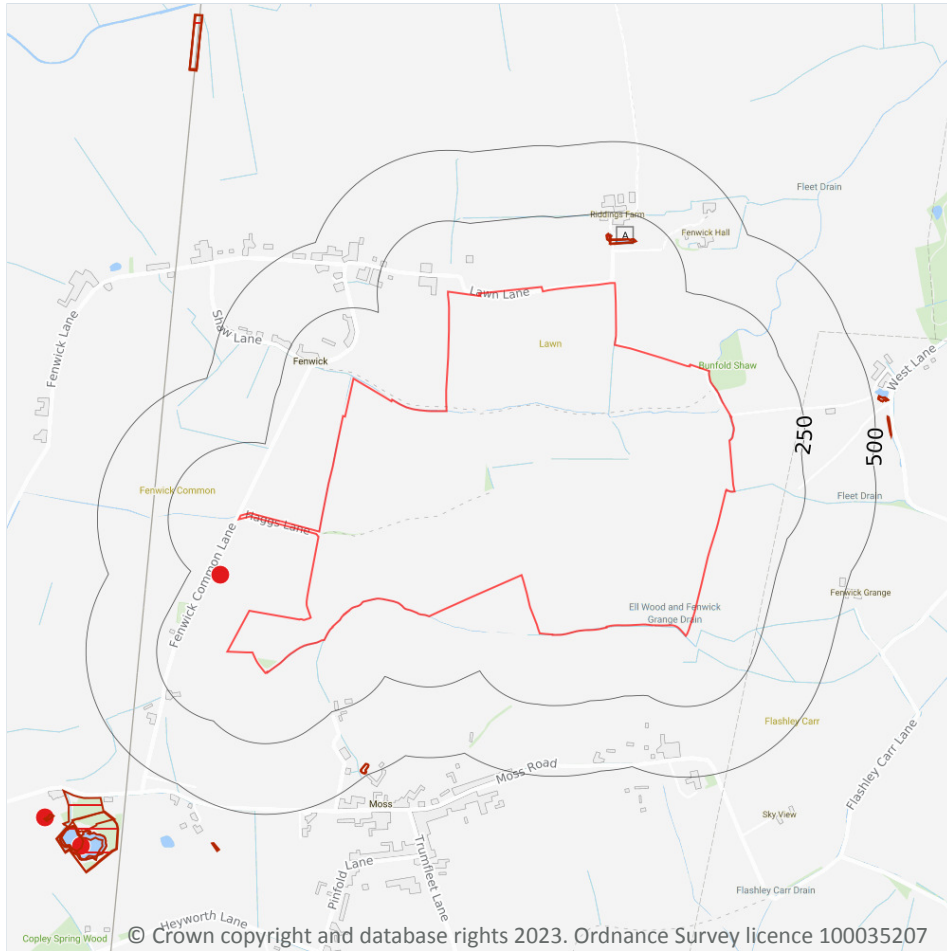
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 114](#) >

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

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



## 18 Mining and ground workings



### 18.1 BritPits

#### Records within 500m

1

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 116](#) >

ID	Location	Details	Description
1	165m W	Name: Fenwick Common Sand Pit Address: Fenwick, Askern, DONCASTER, South 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.

## 18.2 Surface ground workings

<b>Records within 250m</b>	<b>3</b>
----------------------------	----------

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 116](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
A	138m N	Ponds	1948	1:10560
A	138m N	Pond	1951	1:10560
A	140m N	Ponds	1907	1:10560

This data is sourced from Ordnance Survey/Groundsure.

## 18.3 Underground workings

<b>Records within 1000m</b>	<b>0</b>
-----------------------------	----------

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

This data is sourced from Ordnance Survey/Groundsure.

## 18.4 Underground mining extents

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

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

This data is sourced from Groundsure.



## 18.5 Historical Mineral Planning Areas

Records within 500m

0

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

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

## 18.6 Non-coal mining

Records within 1000m

0

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

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

## 18.7 JPB mining areas

Records on site

0

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

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

*This data is sourced from The Coal Authority.*



## 18.9 Researched mining

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

Records within 500m

0

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

*This data is sourced from Groundsure.*

## 18.12 Coal mining

Records on site

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

*This data is sourced from the Coal Authority.*



### 18.13 Brine areas

Records on site

0

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

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

### 18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

### 18.16 Clay mining

Records on site

0

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

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





## 19 Ground cavities and sinkholes

### 19.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.2 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

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

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

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

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



*This data is sourced from Groundsure.*

## 19.5 National karst database

Records within 500m

0

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

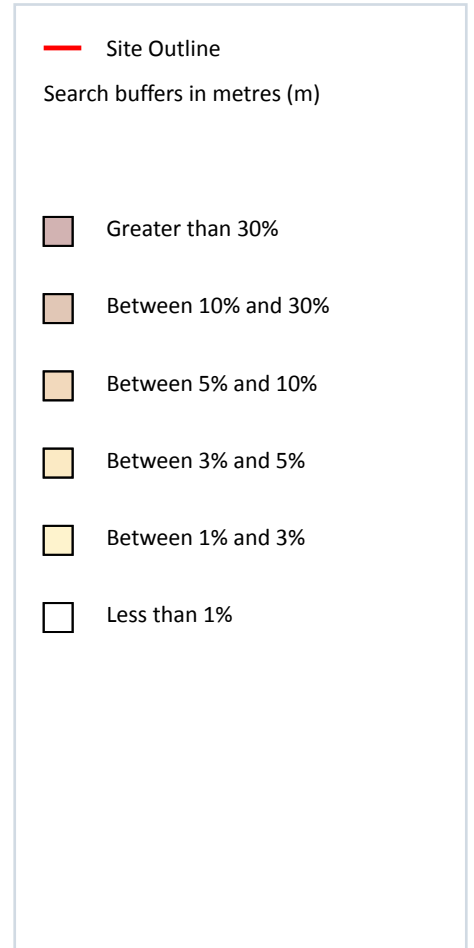
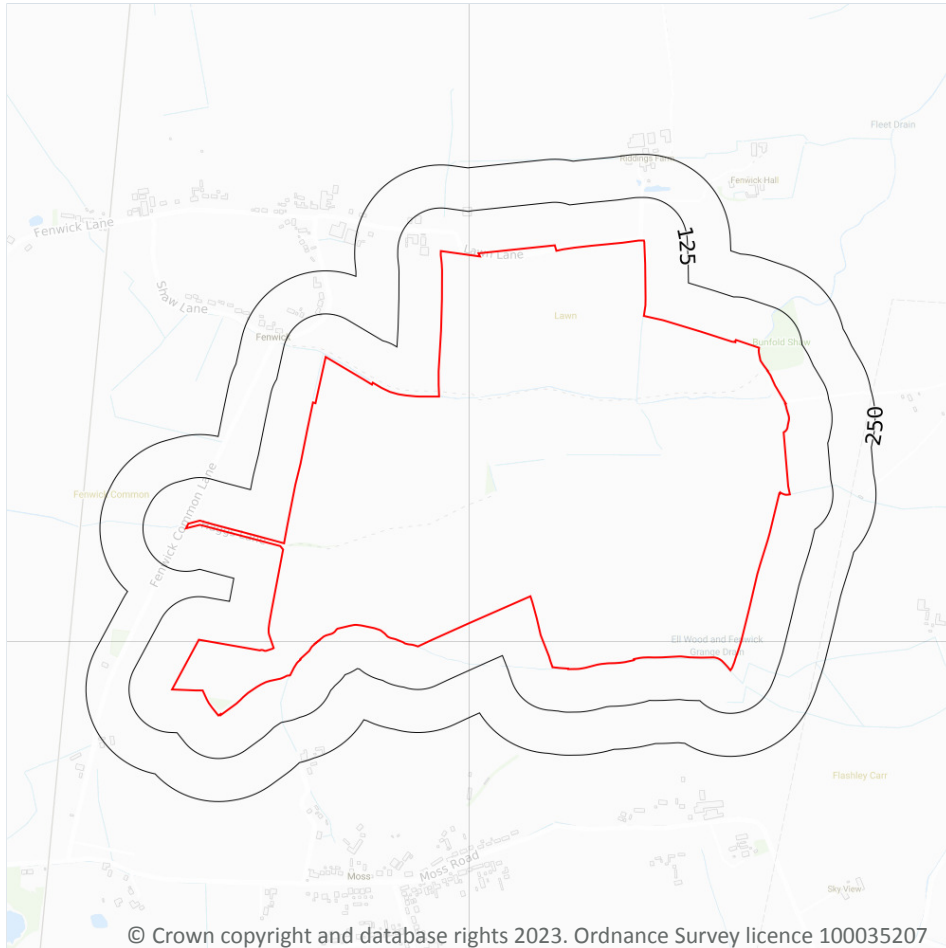
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

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



## 20 Radon



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### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 123 >](#)

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

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



## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

33

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 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	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	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	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



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
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
5m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
19m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
50m S	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.*

## 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

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



## 21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

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



## 22 Railway infrastructure and projects

### 22.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.2 Underground railways (Non-London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 22.4 Historical railway and tunnel features

Records within 250m

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.*

### 22.5 Royal Mail tunnels

Records within 250m

0

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





*This data is sourced from Groundsure/the Postal Museum.*

## 22.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

**Records within 250m**

**0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 Crossrail 1

**Records within 500m**

**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 22.9 Crossrail 2

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 22.10 HS2

**Records within 500m**

**0**

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



*This data is sourced from HS2 Ltd.*



## Data providers

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

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/> ↗.



## Annex B BGS Exploratory Hole Records



B.G.S

FORM F 70  
SERIES 660

Section of FENWICK COMMON LANE

Purpose To Prove the Barnsley Seam and nature of the coal measure strata below Permian

Exact Site O.S. N.G.R. E.459085/N.415228  
Site approximately 970m North-North-East of Moss Railway Station (Level Crossing)

Level at which ~~XXXX~~ bore commenced relative to O.D. 5.787 ~~XXXX~~  
~~XXXX~~ A.O.D.

Date of sinking or boring March 23rd - 12th April 1984

Sinker or borer Drilling and Prospecting International Cores, other than coal, examined by C. Robson

6-INCH MAP	B'H RESO.
Yorks (W.R) 265 NW (County, Sheet and Qtr.)	
SE 51 NE 15 (Nat. Grid, Sheet & Qtr.)	
Attach tracing from a map or sketch map if possible	

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m <del>XXXX</del>	cm <del>XXXX</del>	m <del>XXXX</del>	cm <del>XX</del>
	OPEN HOLE from surface to 200m. Strata from B.P.B. Geophysical Logs and cuttings				
Drift	Soil, dark brown	1	00	1	00
	Clay, brown	4	00	5	00
	Clay, brown with some yellow sand	1	00	6	00
	Sand, yellow brown with fragments of coal	1	00	7	00
	Sand, yellow brown, coarse grained, 1mm grain size, becoming coarser up to 2mm below 10m	4	00	11	00
	Grit, angular coarse quartz and sandstone grains up to 5mm in size	3	00	14	00
Bunter Sandstone	Sandstone, aggregates of red, rounded, frosted, fine grained sand. Some marl showing below 30m	49	70	63	70
	Marl, red with grey/green silty marl	12	50	76	20
Upper Permian Marl	Gypsum, white, some anhydrite	2	20	78	40
	Anhydrite, impure, marly	3	40	81	80
	Marl, red brown some stronger silty red marl and gypsum	7	80	89	60
	Anhydrite, grey with some impure brown marly anhydrite	1	40	91	00
	Marl, red brown	2	00	93	00
	Anhydrite, grey with some red brown marl and gypsum. Below 98m anhydrite ooliths in carbonate cement	9	00	102	00
Upper Magnesian Limestone	Limestone, pale grey to cream coloured, some fine laminations	16	40	118	40
	Marl, grey with occasional gypsum	1	60	120	00
Middle Permian Marl	Marl, brown, below 126m gypsum common in massive and fibrous form	28	00	148	00
	Marl, brown, gypsum rare	8	20	156	20
	Anhydrite, impure, in abundance, indicated by cuttings. Some impure limestone also present in cuttings	1	80	158	00
	Limestone (from electric log). First positive show of limestone cuttings from 164m. Limestone, pale grey with saccharoidal texture	42	00	200	00



Form P 71  
SERIES 680

Section of ..... FENWICK COMMON LANE

6 - INCH MAP	B/H
Yorks (W.R) 265 NW	
SE 51 NE 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m <del>XXX</del>	cm <del>XXXX</del>	m <del>XXXX</del>	cm <del>XXXX</del>
Lower Magnesian Limestone	Limestone, strong, pale grey with vugs 5mm to 10mm unlined. Fine light and dark grey banding with occasional 2mm black marl layers. Joint 203.90m to 204.00m infilled with pyrite. Below 204.60m vugs larger generally 15mm by 20mm and occasional calcite mineralisation	5	75	205	74
	Limestone, dark grey with some darker wavy laminae. Dark grey speckling common, vugs rare and small 2mm by 3mm		86	206	60
	Limestone, dark grey with white speckling some small shell fragments, 5cm black marl band at 206.92m		60	207	20
	Limestone, marly, dark grey and strong, brachiopod at 207.56m, Lingula at 207.70m and common below 207.80m		70	207	90
	Marl, grey, strong with scattered Lingula below 209m with occasional 3mm nodules of pyrite. Numerous black sooty brachiopod impressions towards base	2	52	210	42
Basal Permian Sands	Sandstone, dark blue grey, very weak		72	211	14
GLASSHOUGHTON ROCK (17.72m)	Mudstone, silty, grey with sandy micaceous laminae. Khaki colour below 211.60m	2	21	213	35
	Mudstone, silty with sandy laminae, red purple colour, grading down into mudstone some 45° inclined, slickensided breaks at : 214.30m - 214.40m 214.70m - 214.80m and 214.85m - 214.92m	1	92	215	27
	Mudstone, red brown and purple in colour, disturbed by small fault? 2cm displacement, some plant debris		28	215	55
	Mudstone, shaly, dark grey, carbonaceous coal streaks and plant debris		15	215	70
	Mudstone, grey with roots		28	215	98
	Sandstone, red purple colour		07	216	05
	Siltstone with sandy laminae		20	216	25
	Sandstone, grey, some red purple staining, medium grained, carbonaceous micaceous wisps	2	25	218	50
	Siltstone with sandy laminae	1	01	219	51
	Sandstone, medium grained with inclined carbonaceous micaceous laminae		33	219	84
	Siltstone with sandy laminae		16	220	00
	Sandstone, grey, coarse grained with carbonaceous silty laminae some inclined	3	80	223	80
	Siltstone with sandy laminae and plant debris	1	45	225	25
	Sandstone, pale grey, medium grained with carbonaceous micaceous laminae, grain size coarser between 229.00m to 230.70m	6	32	231	57
	Sandstone, pale grey, coarse grained	2	13	233	70



Form P 71  
SERIES 680

Section of ..... FENWICK COMMON LANE

6 - INCH MAP		B/H
Yorks (W.R) 265 NW		
SE 51	NE / 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
HOUGHTON THIN	COAL, inferior 5cm				
	Mudstone, carbonaceous 2cm		71	234	41
	Mudstone-seatearth 43cm				
	COAL, inferior 21cm				
	Mudstone-seatearth		59	235	00
ACKTON ROCK (16.90m)	Mudstone, silty with roots, ironstone nodules and sandy laminae below 236.50m	4	20	239	20
	Sandstone, pale grey, fine-grained with coaly micaceous laminae	2	20	241	40
	Siltstone with sandy lenses	4	85	246	25
	Sandstone, pale grey, medium grained with carbonaceous silty laminae	6	07	252	32
	Siltstone with sandy laminae and lenses numerous comminuted plant debris		68	253	00
	Sandstone, grey, medium grained with occasional carbonaceous coaly laminae	3	10	256	10
	Mudstone, grey, smooth, numerous 'fucoids' and Planolites, becoming more shaly down, no 'fucoids' or Planolites below 258.80m	5	92	262	02
	Mudstone with roots, grey green mottling, with sphaerosiderite in places	3	68	265	70
	Siltstone, ferruginous grading down into sandstone 'canky' between 266.30m to 266.60m	1	35	267	05
	Siltstone, fine-grained, 'canky' with bands of 'canky' sandstone	1	07	268	12
MANSFIELD MARINE BAND	Mudstone, silty, grey green and grey colour banding, comminuted plant debris		36	268	48
	Sandstone, with silty carbonaceous laminae		40	268	88
	Mudstone, silty with sandy laminae and comminuted plant debris		66	269	54
	Mudstone, grey with ironstone, becoming darker down and shaly, fish scales and tracky markings towards base	1	65	271	19
	COAL, inferior 7cm				
	COAL 15cm		44	271	63
	COAL, inferior 6cm				
	COAL 16cm				
	Mudstone-seatearth, very pale grey, sphaerosideritic below 272.50m	1	37	273	00
	Sandstone, medium grained, grey green colour, some micaceous silty laminae		78	273	78
WHEATWORTH	Siltstone with numerous sandy laminae and bands	1	22	275	00
	Mudstone, silty, grey with comminuted plant debris, and occasional sandy laminae	1	60	276	60
	Mudstone with tracky markings and occasional sandy laminae with comminuted plant debris	2	10	278	70
	Mudstone, shaly with tracky markings and occasional ironstone bands, becoming darker and carbonaceous with mussels towards base	1	78	280	48



Form P 71  
SERIES 080

Section of ..... FENWICK COMMON LANE BOREHOLE .....

6 - INCH MAP	B/H
Yorks (W.R) 265 NW	
SE 51 NE / 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m <del>XXXX</del>	cm <del>XXXX</del>	m <del>XXXX</del>	cm <del>XXXX</del>
	Mudstone, grey with worm-like flattened tubes		28	280	76
	Mudstone, shaly, dark grey		13	280	89
	Mudstone, grey with tracky markings and ironstone lenses		51	281	40
	Mudstone, silty, grey with occasional plants		60	282	00
	Siltstone, grey, rapidly grading down into sandstone with coaly micaceous laminae, some contorted bedding	1	34	283	34
	Siltstone with sandy laminae and comminuted plant debris		81	284	15
	Mudstone with sandy laminae		75	284	90
	Mudstone, grey with tracky markings, inclined 45°, 5cm wide gouge contact with item below		08	284	98
	COAL, inferior		05	285	03
	Mudstone-seatearth, brown grey becoming darker down with numerous ironstone nodules and listrics	2	17	287	20
HAUGHTON MARINE BAND	Mudstone, grey with ironstones, Planolites at 287.60m, 'fucoids'? at 287.80m, large mussels at 288.30m pyritised dusty plant impressions below 288.40m, mudstone becoming darker down, with occasional listricated partings, Planolites and 'fucoids' below 288.90m, Lingula at 289.00m, Serpuloides at 289.25m, Lingula at 289.75m	3	30	290	50
	Mudstone, silty, grey green with roots, canky fine sandy laminae below 291.00m	3	70	294	20
	COAL 32cm				
	COAL, inferior 4cm		41	294	61
SWINTON POTTERY	COAL 3cm				
	COAL, inferior 2cm				
	Mudstone-seatearth, grey with ironstone nodules below 295.75m	1	39	296	00
	Mudstone with roots, dark grey with ironstone nodules below 297.50m, becoming dark and shaly down	1	87	297	87
	Shale, black, carbonaceous with fish debris		43	298	30
	Mudstone, grey with roots		53	298	83
	Mudstone, silty with ironstone nodules and occasional plants, grading down into siltstone with sandy laminae	6	40	305	23
	Mudstone, silty with fine sandy laminae	1	47	306	70
	Mudstone, grey with ironstones, tracky markings, becoming shaly and darker down, ostracods at 310.60m	4	30	311	00
	Shale, black, carbonaceous, slightly silty occasional coalified plant debris, more common below 312.00m and patches of fusain	1	15	312	15





Form P 71  
SERIES 680

Section of ..... FENWICK COMMON LANE BOREHOLE

6 - INCH MAP		B/H	
Yorks (W.R) 265 NW			
SE 51	NE 15		

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH		
		m <del>FOOT</del>	cm <del>INCH</del>	m <del>FOOT</del>	cm <del>INCH</del>	
NEWHILL	COAL		43	312	58	
	Siltstone-seatearth, fawn with sandy patches at base of seam	1	12	313	70	
	Mudstone-seatearth, fawn with sphaerosideritic nodules		80	314	50	
	Siltstone, sphaerosideritic		30	314	80	
	Mudstone, grey with sandy laminae	1	88	316	68	
	Ironstone		30	316	98	
	Mudstone, shaly, track markings, becoming dark down with occasional plants and large mussels	3	38	320	36	
	Mudstone, grey, ironstone and occasional large mussels, becoming darker down	5	42	325	78	
	Shale, black		09	325	87	
	MELTONFIELD	COAL 40.5cm				
COAL (Not Recovered) 9.0cm						
COAL 16.5cm		1	04	326	91	
Mudstone, pale grey 2.0cm						
COAL 11.0cm						
Mudstone, carbonaceous 1.0cm						
COAL 24.0cm						
Siltstone-seatearth with sandy pouches		1	04	327	95	
TWO FOOT MARINE BAND	Mudstone, silty with sandy laminae, ironstone and roots below 329.00m	4	68	332	63	
	Mudstone, silty, dark grey, carbonaceous mussels frequent		87	333	50	
	Mudstone, shaly, Lingula at 333.80m carbonaceous and cannelloid with fish debris below 334.40m	1	30	334	80	
	CANNEL		35	335	15	
	TWO FOOT	Mudstone, pale grey, listricated, planty surfaces		65	335	80
		COAL, inferior		06	335	86
		Silty mudstone-seatearth, ferruginous, grey green colour		29	336	15
		Sandstone, fine-grained, grey green colour grading down to siltstone with sandy laminae	1	22	337	37
		Sandstone, fine-grained with carbonaceous silty laminae	1	96	339	33
		Mudstone, silty with sandy laminae, some "balled up" and comminuted plant debris	1	67	341	00
Mudstone with occasional very fine sandy laminae		2	80	343	80	
Mudstone, shaly, dark grey with small shell fragments and tracky markings, inclined listricated breaks towards base, weakening the bottom 50cm		1	70	345	50	
WINTER		COAL 25cm				
		COAL, inferior 6cm				
	COAL 19cm					
	COAL (Not Recovered) 6cm					
	COAL 21cm					

Form P 71  
 SERIES 680

Section of ..... FENWICK COMMON LANE BOREHOLE .....

6 - INCH MAP	B/H
Yorks (W.R) 265 NW	
SE 51 NE 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	Mudstone-seatearth, grading down into mudstone silty		73	347	00
	Mudstone with roots and plants		28	347	28
	Mudstone, carbonaceous with coal streaks		04	347	32
	COAL, inferior		06	347	38
	Mudstone-seatearth		16	347	54
	COAL, inferior		05	347	59
	Silty mudstone-seatearth		18	347	77
	Mudstone with coal streaks		11	347	88
	Mudstone-seatearth		12	348	00
	Mudstone, silty with roots		80	348	80
	Siltstone with roots, and ferruginous sandy laminae		78	349	58
	Sandstone, fine-grained with carbonaceous and micaceous laminae	2	14	351	72
	Mudstone, grey with ironstone	1	75	353	47
	Mudstone, dark grey, carbonaceous with plants and mussels		14	353	61
	Mudstone, with roots and sandy laminae and very fine silty laminae below 354m	1	39	355	00
	Mudstone, medium grey with ironstones	2	14	357	14
	Mudstone, dark grey and shaly with mussels and ironstones		52	357	66
	Mudstone, grey	1	04	358	70
	Mudstone, dark grey and shaly with ironstone layers and mussels and fusain partings towards base	1	00	359	70
	Shale, black with mussels	1	10	360	80
	Mudstone, grey, flaky		07	360	87
	Shale, black, ferruginous with inclined 45° 2mm gouge contact with item below		43	361	30
	Shale, black with numerous inclined fractures, Guilielmities below 361.68m	1	15	362	45
BEAMSHAW	COAL 41cm				
	COAL, dull 7cm		52	362	97
	COAL 4cm				
	Mudstone-seatearth		43	363	40
	Mudstone, silty with roots	1	10	364	50
	Sandstone, medium grained with plants and roots	1	28	365	78
31	Siltstone, some sandy laminae and occasional plant debris	2	20	367	98
	Sandstone with silty laminae		36	368	34
32	Mudstone, silty with sandy laminae	1	78	370	12
	Sandstone, medium grained	2	19	372	31
33	Siltstone with sandy laminae, grading down into mudstone silty	2	69	375	00
	Mudstone, shaly, occasional mussels and tracky markings, dark grey below 372m	3	56	378	56
	Ironstone with mussels		14	378	70
	Mudstone, grey with tracky markings, joints 379.00m - 380.55m	2	30	381	00
	Ironstone with mussels		05	381	05

31 { 367.57 - }  
 { 367.82m } →

32 { 370.41m }  
 { 370.68m } →

33 { 373.94m }  
 { 374.26m } →



Form P 71  
SERIES 880

Section of ..... FENWICK COMMON LANE BOREHOLE

6 - INCH MAP		B/H
Yorks (W.R) 265 NW		
SE	51 NE	15

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	Mudstone, grey with coal streaks and plants		18	381	23
	Mudstone, silty with roots, grading down to mudstone with plants		59	381	82
S4 { 384.11m - 384.29m }	Sandstone, fine-grained, some silty laminae and "balled up" structures	2	60	384	42
	Siltstone with sandy laminae grading down to silty mudstone	3	88	388	30
S5 { 387.43m - 387.76m }	Mudstone, grey with tracky markings and ironstones, becoming shaly down	4	22	392	52
	Mudstone, shaly, dark grey with abundant mussels		05	392	57
	Shale, black		13	392	70
KENTS THICK	COAL 26cm				
	COAL, dull 2cm		44	393	14
	COAL 16cm				
	Mudstone, carbonaceous		05	393	19
	Mudstone-seatearth		50	393	69
	Mudstone, carbonaceous		04	393	73
	COAL		46	394	19
	Mudstone-seatearth with occasional sandy bands		61	394	80
	Siltstone with roots		60	395	40
S6 { 398.0m - 398.27m }	Sandstone, pale grey, medium grained with occasional silty carbonaceous wisps	3	15	398	55
	Siltstone with sandy laminae		45	399	00
	Sandstone, pale grey, medium grained		55	399	55
	Mudstone, silty, dark grey with mussels and Spirorbis		11	399	66
	Mudstone, dark grey with coal streaks		04	399	70
S7 { 402.46m - 402.70m }	Mudstone-seatearth		17	399	87
	Siltstone with sandy laminae and roots	2	95	402	82
	COAL, inferior		04	402	86
	Mudstone-seatearth		34	403	20
S8 { 403.22m - 403.47m }	Sandstone with silty laminae, grading down to siltstone with sandy laminae and roots	1	55	404	75
S9 { 404.92m - 405.14m }	Sandstone, medium grained		84	405	59
	Siltstone, fine-grained	1	41	407	00
S10 { 405.90m - 406.14m }	Mudstone, slightly silty		74	407	74
S11 { 408.80m - 408.94m }	Mudstone, grey, shaly with mussels and ?Planolites	4	06	411	80
	Shale, black, carbonaceous with plants		39	412	19
	Sandstone with roots		51	412	70
S12 { 414.30m - 414.49m }	Siltstone with sandy laminae	3	30	416	00
	Mudstone, silty, grey	3	79	419	79
S13 { 416.37m - 416.55m }	Mudstone, grey, slightly silty and slightly shaly	2	41	422	20
S14 { 417.66m - 417.86m }	Mudstone, shaly, grey with occasional plants, weak below 422.60m, flaky parting at 423.14m, inclined listricated parting at 423.49m - 423.42m	1	37	423	57
S15 { 418.95m - 419.22m }					



Form P 71  
SERIES 680

Section of ..... FENWICK COMMON LANE BOREHOLE

6 - INCH MAP	B/H
Yorks (W.R)265 NW	
SE 51 NE 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH		
		<del>XXXX</del> ft*	<del>XXXX</del> in*	<del>XXXX</del> ft*	<del>XXXX</del> in*	
BARNESLEY	COAL	30cm				
	COAL (Not Recovered)	13cm				
	Mudstone (Not Recovered)	2cm				
	Mudstone-seatearth	10cm				
	COAL, inferior	2cm				
	Mudstone-seatearth	6cm				
	COAL	84cm				
	COAL, inferior	5cm				
	COAL	13cm	2	72	426	29
	Mudstone, carbonaceous	4cm				
	Mudstone-seatearth	7cm				
	Mudstone, carbonaceous	5cm				
	COAL	21cm				
	COAL, dull	21cm				
	COAL, inferior	21cm				
	Mudstone, carbonaceous	10cm				
	COAL	18cm				
	Mudstone-seatearth, weak		1	04	427	33
	Mudstone-seatearth, slightly silty, occasional sphaerosideritic nodules below 427.80m		2	67	430	00
	Mudstone, silty with occasional roots		2	60	432	60
Siltstone with irregular sandy laminae						
S16 { 427.33m 427.60m }						
S17 { 432.47m 432.70m }						
S18 { 433.63m 433.85m }						
S19 { 435.95m 436.11m }						
S20 { 437.92m 439.14m }						
S21 { 441.15m 441.40m }		9	70	442	30	
Sandstone, medium-grained with carbonaceous silty wisps, canky below 444.00m						
S22 { 442.55m 442.81m }						
S23 { 444.26m 444.54m }						
S24 { 446.27m 446.50m }						
S25 { 448.54m 448.72m }		7	75	450	05	
S26 { 451.45m 451.76m }	Siltstone, grey with sandy laminae, grading down to mudstone, silty	4	69	454	74	
DUNSIL	COAL		22	454	96	
	Mudstone-seatearth		62	455	58	
	Mudstone with roots		12	455	70	
	COAL, inferior		03	455	73	
	Mudstone-seatearth	1	04	456	77	
	COAL, inferior		05	456	82	



Form P 71  
SERIES 880

Section of ..... FENWICK COMMON LANE BOREHOLE

6 - INCH MAP	B/H
Yorks (W.R) 265 NW	
SE 51 NE 15	

\* Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m <del>XXXX</del>	cm <del>XXXX</del>	m <del>XXXX</del>	cm <del>XXXX</del>
	Mudstone, carbonaceous with roots		18	457	00
	COAL, inferior		05	457	05
	Mudstone-seatearth		12	457	17
S27 { 457.13m - 457.36m	Siltstone with sandy laminae, some 'balled up' structures	2	15	459	32
	Mudstone, silty with sandy laminae. Septarian nodule at 459.84m - 460.17m		85	460	17
	Mudstone, shaly, grey with numerous mussels	1	12	461	29
	COAL, inferior		07	461	36
	Mudstone-seatearth		27	461	63
	Mudstone-seatearth, silty grading down to siltstone with sandy laminae and comminuted plant debris	1	17	462	80
	Mudstone, silty with plants	1	20	464	00
	Mudstone, carbonaceous with coal streaks		02	464	02
S28 { 464.92m - 465.17m	Siltstone with sandy laminae, massive below 464.50m	2	44	466	46
S29 { 466.46m - 466.65m	Sandstone, pale grey, medium-grained, silty laminae		74	467	20
	Mudstone, grey		75	467	95
	Mudstone, dark grey, shaly with mussels	1	05	469	00
	Shale, black		11	469	11
	COAL 7cm				
	COAL, inferior 10cm				
SWALLOW WOOD	COAL 14cm		43	469	54
	COAL, dull 6cm				
	COAL 6cm				
	Mudstone-seatearth	2	61	472	15
	COAL		14	472	29
	Mudstone-seatearth		44	472	73
	Sandstone with roots and carbonaceous distorted silty laminae		76	473	49
	Siltstone, grey, massive		73	474	22
	Mudstone, planty with ironstone nodules	1	35	475	57
S31 { 475.72m - 476.08m	Sandstone, medium to fine-grained, canky from 475.57m - 475.95m				
S32 { 476.75m - 477.00m		1	88	477	45
	Siltstone, massive	1	29	478	74
	BOTTOM OF BOREHOLE			478	74
	Casing left in 165mm 4.65m - 34.80m				
	N.B. S1 367.57m - 367.82m - indicates strata sample number and depth. S30 - strata sample missing				



NATIONAL COAL BOARD

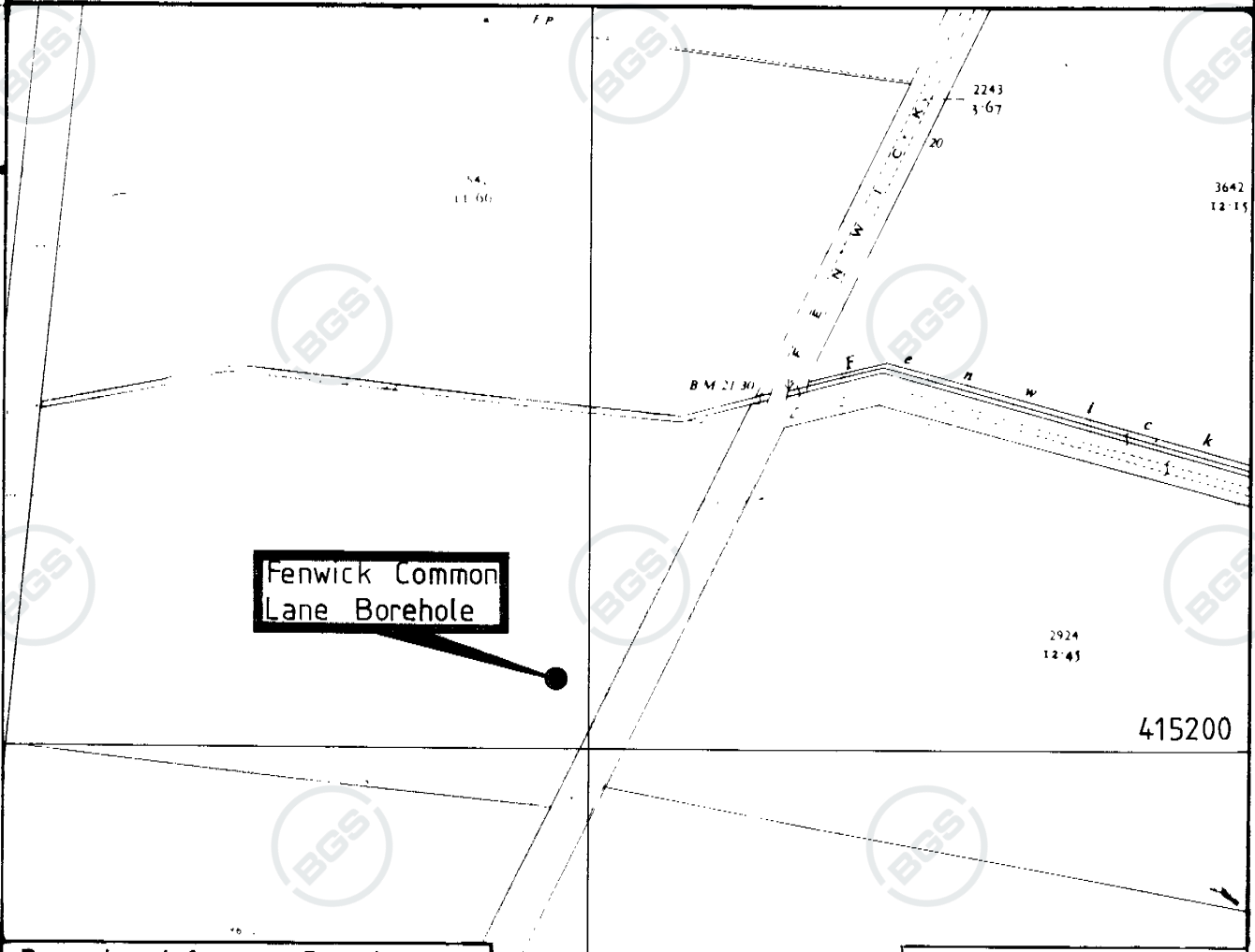
DONCASTER AREA

SE 51 NE / 15

**FENWICK COMMON LANE BOREHOLE**

SCALE :- 1/10560

SHEET SE 51 NE



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N.C.B. Doncaster Area Surveying Department	
File	Date
G2/194	April 1984

Bored from Surface

National Grid Coordinates E 459085 N 415228 = SE 5908 / 1523

Levels: Ground level & boring datum 5.787m A.O.D.

6 inch Map	B.H. regd. No.	6 inch Map	B.H. regd. No.
YORKS (WR) 265 NW (County, Sheet & Qtr.)		SE 51 NE (Nat. Grid Sheet & Qtr.)	205



## Annex C Zetica UXO Map



# UNEXPLODED BOMB RISK MAP



## SITE LOCATION

Location: DN6 0HB,  
Map Centre: 459827,416178



## LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

### How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment\* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment\* is necessary.

### What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

**Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.**

### If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

### If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.


\*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

## Annex D Photographic Records

**Client Name:** Fenwick Solar Project Limited

**Site:** Fenwick Solar Farm

**Project No.** 60698207

<p><b>Photo No. 1</b></p>	<p><b>Date:</b> 12/01/2024</p>		
<p><b>Direction Photo Taken:</b> A – North B – West C – South East D – South</p>			
<p><b>Description:</b> A) Discarded materials on the northern bank of the River Went, to the north of the Solar PV Site. B) A view of the River Went along the northern boundary of the Solar PV Site. C) Agricultural field. D) Access track separating two adjacent fields.</p>			

<p><b>Photo No. 2</b></p>	<p><b>Date:</b> 26/07/2023</p>		
<p><b>Direction Photo Taken:</b> North</p>			
<p><b>Description:</b> Waterlogged ground along the northern boundary of the Solar PV Site, adjacent south of the River Went.</p>			

**Client Name:** Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 3**Date:** 26/07/2023**Direction Photo Taken:**  
South**Description:**  
Access track (hardstanding) separating agricultural fields.**Photo No.** 4**Date:** 26/07/2023**Direction Photo Taken:**  
South**Description:**  
Agricultural fields under arable production.

**Client Name:** Fenwick Solar Project Limited

**Site:** Fenwick Solar Farm

**Project No.** 60698207

<p><b>Photo No.</b> 5</p>	<p><b>Date:</b> 26/07/2023</p>	<p><b>A</b></p> 	<p><b>B</b></p> 
<p><b>Direction Photo Taken:</b>          A – East          B – West          C – South East          D – North West</p>		<p><b>C</b></p> 	<p><b>D</b></p> 
<p><b>Description:</b>          Access track.          Agricultural fields under arable production.</p>			

<p><b>Photo No.</b> 6</p>	<p><b>Date:</b> 26/07/2023</p>	
<p><b>Direction Photo Taken:</b>          East</p>		
<p><b>Description:</b>          Agricultural fields under arable production (on-site) and wooded areas (off-site). Electrical pylons in the background.</p>		

**Client Name:** Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 7**Date:** 26/07/2023**Direction Photo Taken:**  
East**Description:**  
Agricultural field use for sheep grazing.**Photo No.** 8**Date:** 26/07/2023**Direction Photo Taken:**  
East**Description:**  
Agricultural field use for sheep grazing.

**Client Name:** Fenwick Solar Project Limited

**Site:** Fenwick Solar Farm

**Project No.** 60698207

<p><b>Photo No.</b> 9</p>	<p><b>Date:</b> 26/07/2023</p>	
<p><b>Direction Photo Taken:</b> East</p>		
<p><b>Description:</b> Agricultural field use for sheep grazing.</p>		

<p><b>Photo No.</b> 10</p>	<p><b>Date:</b> 26/07/2023</p>		
<p><b>Direction Photo Taken:</b> A – North B – South C – East D – West</p>		<p><b>Description:</b> A) Container located on-site and agricultural machinery, to the north of Lawn Lane, in the western part of the Solar PV Site. B, C, D) agricultural fields.</p>	

**Client Name:** Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 11**Date:** 26/07/2023**Direction Photo Taken:**  
North**Description:**  
Agricultural fields under arable production.**Photo No.** 12**Date:** 26/07/2023**Direction Photo Taken:**  
East**Description:**  
Agricultural fields under arable production.  
Farm equipment.



**Client Name:** Fenwick Solar Project Limited

**Site:** Fenwick Solar Farm

**Project No.** 60698207

<p><b>Photo No. 13</b></p>	<p><b>Date:</b> 26/07/2023</p>	<p><b>A</b></p> 	<p><b>B</b></p> 
<p><b>Direction Photo Taken:</b> A – East B – West C – South-east D- South</p>		<p><b>C</b></p> 	<p><b>D</b></p> 
<p><b>Description:</b> Agricultural fields under arable production.</p>			

<p><b>Photo No. 14</b></p>	<p><b>Date:</b> 26/07/2023</p>	
<p><b>Direction Photo Taken:</b> South</p>		
<p><b>Description:</b> Agricultural fields under arable production.</p>		

**Client Name:** Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 15 **Date:** 26/07/2023**Direction Photo****Taken:**

A – South

B – East

C – North

D – North-east

**Description:**

Agricultural fields under arable production.

**Photo No.** 16 **Date:** 26/07/2023**Direction Photo****Taken:**

North

**Description:**

Agricultural fields under arable production.





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