

## Report No.

E05284-CLB-00-XX-RP-GE-01

## Date.

15/02/21

## Project

Connon Bridge, Liskeard

## Client Name

SUEZ Recycling and Recovery UK Ltd

Issue Date	Status	Description of Amendments
16 <sup>th</sup> March 2020	P01 S02	For Information
23 <sup>rd</sup> March 2020	P02 S02	Incorporating Client comments
19 <sup>th</sup> November	P03 S02	Revised development area
02 <sup>nd</sup> December 2020	P04 S02	Incorporating Client comments
07 <sup>th</sup> December 2020	P05 S02	Incorporating Client comments
15 <sup>th</sup> February 2021	P06 S02	Revised development area

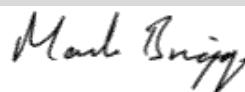
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# Phase 1 Geoenvironmental Report (Desk Study)

Connon Bridge, Liskeard



E05284

SUEZ Recycling and Recovery UK Ltd

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## 1 Executive Summary

Client	SUEZ Recycling and Recovery UK Ltd.
Site	The site is located 8km south west of Liskeard at approximate National Grid Reference 217677 062155 (Postcode: PL14 4NP).
Proposed Development	The proposed development comprises a new waste reception building north of the existing RTS building, a new pump room to the west and redevelopment of the existing clinical waste building. A new turning head is also proposed to the north of the RTS area.
History of Site and Surroundings	The site was agricultural greenfield up until the development of the adjacent landfill and associated infrastructure in the late 1990s. The existing on site recycling centre was constructed in the late 2000s.
Ground Conditions	Previous investigations on adjacent land have identified the following soil sequence, which may be anticipated on site: <ul style="list-style-type: none"> <li>• Made Ground: Reworked natural gravels – GL-1m</li> <li>• Solid Geology: Saltash Formation – extending to depth.</li> </ul>
Hydrogeology & Hydrology	The strata under the site are a Secondary A Aquifer. The site is not located within a Source Protection Zone. There are no groundwater abstraction licences within 500m of the site boundary. There is a historic groundwater abstraction located 5m east of the site boundary. The site is not located within 250m of any Zone 2 or 3 Floodplain ( <b>River and Coastal</b> ).
Geotechnical Considerations	<ul style="list-style-type: none"> <li>• The underlying natural soils/bedrock should be suitable for conventional strip or pad foundations.</li> <li>• Ground bearing floor slabs may be appropriate depending on the nature of the shallow soils.</li> </ul>
Environmental Considerations	<ul style="list-style-type: none"> <li>• Potential gas risk arising from the adjacent landfill.</li> <li>• Potential for near-surface topsoil and/or subsoil to contain residual concentrations of contaminants or naturally occurring mineralisation.</li> </ul>
Risk Rating	The general geotechnical risk is considered to be <b>low</b> . The general risk of significant chemical contamination is considered <b>low</b> .
Site Investigation Recommendations	In order to quantify and mitigate the geotechnical and contamination risks identified above, site investigation is recommended as follows: <ul style="list-style-type: none"> <li>• Trial pitting with in-situ testing where possible.</li> <li>• Geotechnical laboratory testing.</li> <li>• Contaminated land testing.</li> </ul>



## 2 Introduction

### 2.1 Introduction and Brief

Clarkebond (UK) Limited was commissioned by SUEZ Recycling and Recovery UK Ltd to undertake a Phase 1 Preliminary Risk Assessment (Desk Study) on a site known as Connon Bridge, Liskeard. This assessment is required to support the redevelopment of the site.

### 2.2 Scope of Works

The objectives of the investigation were to determine the sub-surface conditions in respect of:

- Preliminary geotechnical advice relating to the anticipated ground conditions; and
- Preliminary contamination risk assessment to consider potential significant pollutant linkages arising from the current and historic land uses on and off site including a preliminary conceptual site model.

### 2.3 Proposals

The proposed development comprises a new waste reception building north of the existing Refuse Transfer Station (RTS) building, a new pump room to the west and redevelopment of the existing clinical waste building. A new turning head is also proposed to the north of the RTS area.

A plan showing the proposed development is included in Appendix A.

### 2.4 Limitations

This report is provided for the benefit only of the party to whom it is addressed and we do not accept responsibility to any third party for the whole or any part of the contents and we exercise no duty of care in relation to this report to any third party.

This assessment has been based to a large extent on third party data acquired from Third Parties. This data has been taken at face value and has not been subjected to any third party validation.

### 3 Phase 1 Assessment

#### 3.1 Site Location and Description

The site is located 8km south west of Liskeard at approximate National Grid Reference 217677 062155 (Postcode: PL14 4NP as shown in Figure 2.1).

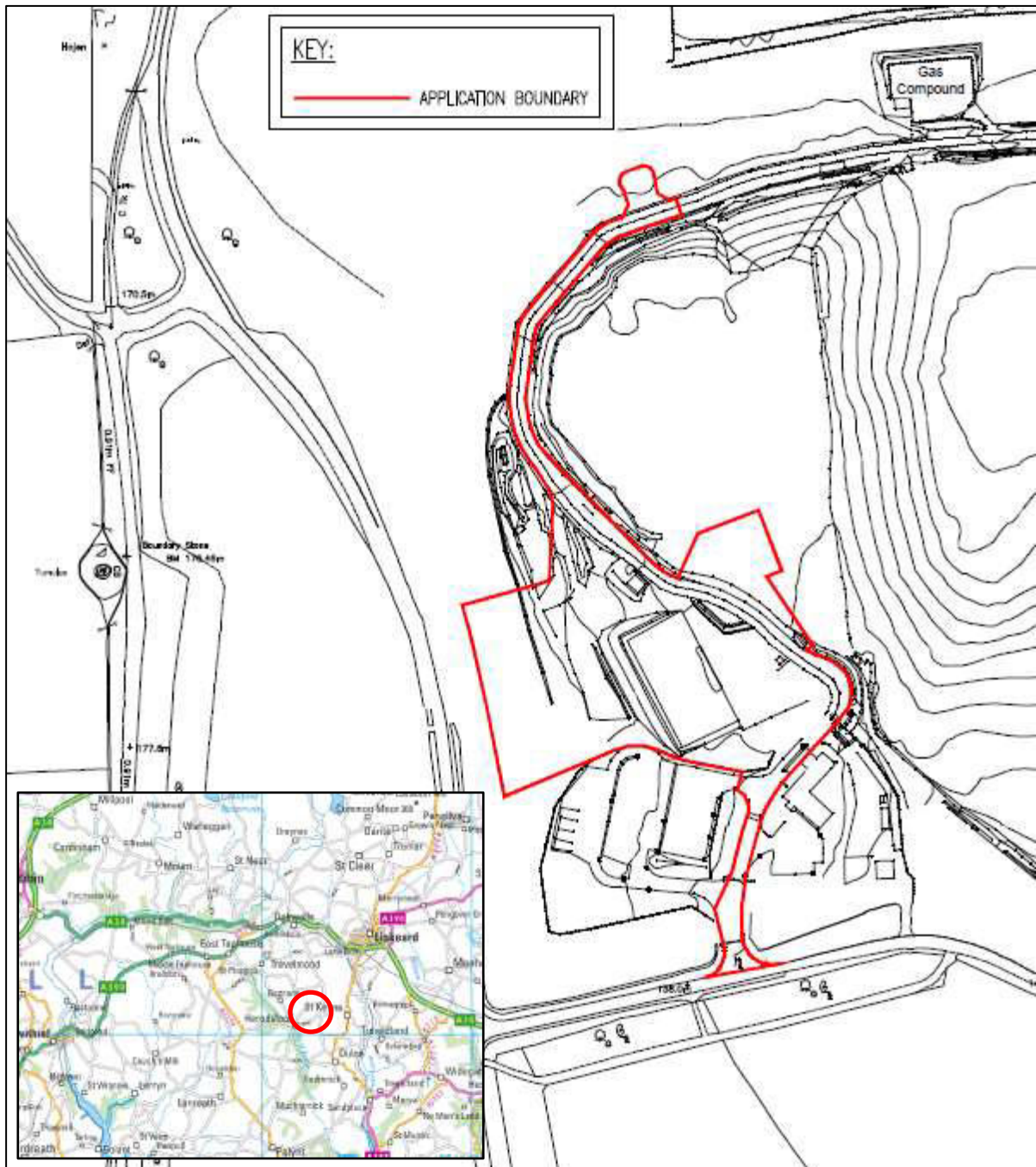


Figure 2.1 Site Location

A site walkover survey was undertaken on 4<sup>th</sup> March 2020. The weather at the time was overcast. Typical photos of the site are included in Appendix B.

- The site is irregular in shape and covers an area of approximately 2.18Ha.
- The site around the existing RTS building was noted to be cut into the existing slope and therefore is generally level. The natural fall of the land is towards the north west/west.
- The site is adjacent to a historic landfill to the east which is in the process of restoration.
- Active gas management was observed across the landfill area.
- Part of the site is currently used as an active Household Waste Recycling Centre.
- The surface comprises of a mix of hardstanding and gravel surfacing.
- Semi-mature species of trees were observed on-site along the western boundary.
- The site is bounded to the east by the historic landfill, to the south by the existing RTS with agricultural farmland to the north and west.

### 3.2 Geology

The geology of the site is shown on maps obtained from the Groundsure report which are extracted from the British Geological Survey Digital Geological Map of Great Britain at 1:50,000 scale.

This indicates that the site is directly underlain by the Saltash Formation, which comprises slate and siltstone. This formation is of Devonian and Carboniferous age.

### 3.3 Hydrology and Hydrogeology

There are two surface water features within 500m of the site. These features include a river WB catchment on site for the West Looe River and 408m north is the West Looe River. Therefore the potential risk to such receptors is deemed to be **moderate**.

Guidance from the Environment Agency indicates that the bedrock strata are designated as a Secondary A aquifer. As such the groundwater sensitivity is regarded as **high**.

There are no active groundwater abstractions that lie within 500m of the site boundary. There is a historic groundwater abstraction located 5m east of the site boundary.

The site is not located within 500m a Source Protection Zone (SPZ).

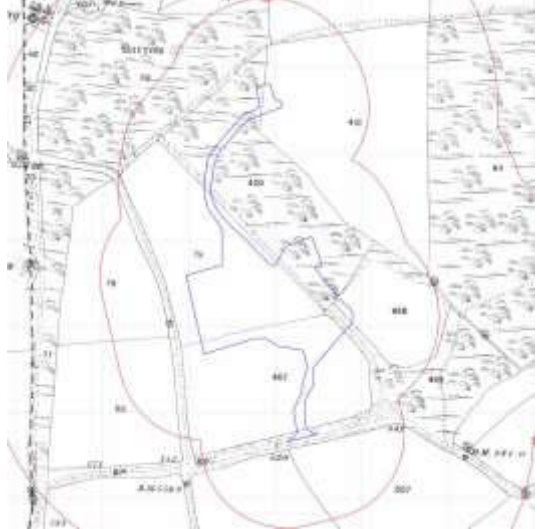

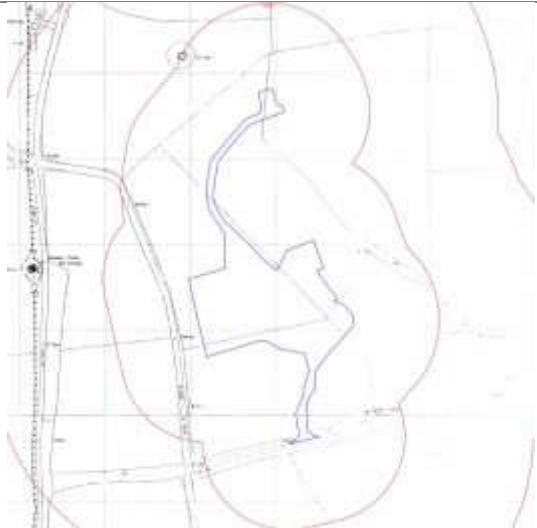

### 3.4 Flood Risk

The site is located within a Zone 1 Floodplain and not located within 250m of any Zone 2 or 3 Floodplain (**River and Coastal**). The site is not located within 50m of an area recorded to be susceptible to **Groundwater** flooding. Clarkebond is currently undertaking a separate detailed flood risk assessment for the site.

### 3.5 Site History

Historical maps of the site area have been obtained via Groundsure. Pertinent information determined from review of these maps, as well as other publicly available aerial imagery, is set out in the following table and the maps are contained in Appendix C.

Table 3.1 Historical Mapping

	
<p><b>1882:</b> The site is occupied by agricultural farmland (greenfield). Off-site features includes a small natural spring noted ~480m south east and an old quarry located ~200m north west.</p>	<p><b>1975:</b> No significant on site changes.</p>
	
<p><b>1995:</b> No significant on site changes. The area to the east is not yet marked as a landfill site.</p>	<p><b>2003:</b> The landfill to the east is now present, together with some ancillary buildings.</p>



**2005:** Aerial photo with landfill clearly visible adjacent to site.



**2019:** Aerial photo with existing RTS present to the south.

To summarise, the site was agricultural greenfield up until the development of the adjacent landfill and associated infrastructure in the late 1990s. The existing on site recycling centre was constructed in the late 2000s. The adjacent landfill has been undergoing restoration from April 2020 and has an active gas management system installed.

### 3.6 Environmental Database

An environmental data report was commissioned to provide an indication of the site and surrounding land uses available on the public registers. The report provides data from a number of service providers, including the British Geological Survey, Environment Agency and Natural England. The reports are included in Appendix D, while the data has been used to inform the following review.

The location of data point references is provided relative to the site boundary and the search radius extends 1km from it.

Table 3.2 provides a summary of which data reference points are considered significant, together with an indication of the potential hazard type.



Table 3.2 Environment Data Review

Data Type	Distance from site	Potentially Significant Hazard
Licenced Discharge consents	394m SE	Sewage Discharge – Treated Effluent
	444m SE	Sewage Discharge – Treated Effluent
Pollution incidents to controlled waters	On Site	Dec 2012 to Feb 2013 – Landfill Odour – Significant Air Impacts
	On Site	Jan 2013 – Noise – Significant Air Impact
	Off Site	2001 to 2013 – Landfill Odour – Significant Air Impacts
Groundwater vulnerability	On Site	Secondary A/High Leaching Potential – High Vulnerability
Licensed Waste Management Facilities	On Site	Suez – Active Waste Landfilling; >10 T/D with Capacity >25,000t Excluding Inert Waste Connon Bridge Transfer Station – Household/Commercial and Industrial Waste Transfer Station
Shallow Mining Hazard	On Site	Vein Mineral – Localised small-scale underground mining may have occurred.
	~245m N	Slate Surface Mineral Working – East Lodge – Ceased.
	~231m N	Unspecified Quarries – 1907 to 1958

The remaining data types were found to be an insignificant risk to the site.

### 3.7 Local Authority Enquiries

Written requests for information relating to the site history were made to the Local Authority, Cornwall County Council. The response, in the form of an Environmental Health – Technical Advice for Planning applicants (EH-TAP) highlights the presence of the landfill, but does not provide significant additional information.

### 3.8 Unexploded Ordnance Assessment

The Zetica risk maps show that the site lies within low UXO risk area. Therefore, no further risk assessment is required.

### 3.9 Site-Specific Radon Assessment

- A site-specific radon report was commissioned via the Groundsure data which finds that the site requires **full radon protection**.

### 3.10 Previous Investigations

The adjacent landfill site has been subject to a previous intrusive ground investigation by Scott Wilson Ltd on behalf of Cornwall County Council. The findings of the assessment are included in:

- Land Quality Assessment – Phase 1, Connon Bridge CAS for Cornwall County Council, December 2004, Ref: D107590/Connon Bridge/LQA1
- Interpretive Report – Phase 2, Connon Bridge (EAST) RTS for Cornwall County Council, August 2006, Ref: D107590

A summary of the key findings is given below.

### 3.10.1 Summary of Findings

- The possible sources of contamination associated with the present use of the site are from the material disposed of into the skips on the site.
- The landfill site may have in the past accepted Cornwall waste Categories A to D as well as special waste. The landfill is lined and leachate from the site is intercepted by leachate grids and treated at a leachate treatment plant approximately 650m east of the CAS site. Methane gas generated by the landfill is used to drive gas turbines and create electricity.
- Two boreholes and six trial pits were undertaken in August 2006. These identified made ground in the form of reworked brown grey sandy gravel overlying weathered bedrock of orange/red to brown clayey sandy gravel, in turn overlying weak to moderately weak red/brown shale. No groundwater was encountered.
- Contamination testing of six soil samples revealed no contamination against CLEA Guidelines.
- Subsequent gas monitoring revealed no significant risk.
- A presumed allowable bearing capacity for strip or pad foundations less than 3m wide formed at a minimum depth of 1.20m below ground would be 125kN/m<sup>2</sup>.
- A sulphate design class DS1, AC2z based on the highest recorded 2:1 SO<sub>4</sub> water extract value of 40mg/l.

On the basis of the desk study works reported above, these findings are considered to be in keeping with the anticipated ground conditions. However, the age of the analysis is such that the guidance in force at the time has been superseded and therefore requires reassessment in line with current UK guidance as part of any future risk assessment. Notwithstanding such an assessment, the investigation is indicative of a veneer of potentially contaminated made ground in the form of reworked natural overlying weathered natural soils.



## 4 Preliminary Conceptual Model

The site characterisation attempts to identify potential sources of contamination, both historic and existing, and both on and off site. A conceptual model is formed, that identifies sources likely to cause harm, due to pathways existing by which contaminants can reach critical receptors.

The conceptual model is therefore based on a number of identified source-pathway-receptor scenarios. For land to potentially pose risks, or be at risk, significant pollutant linkages will need to be identified which will include each source/pathway/receptor component of the conceptual model. The absence or removal of a source, or interception of a pathway, will 'break' the pollutant linkage.

The conceptual model is characterised by identification of the following:

- **On-site** sources, which may impact **on-site** receptors via plausible pathways.
- **On-site** sources, which may impact **off-site** receptors via plausible pathways.
- **Off-site** sources, which may impact **on-site** receptors via plausible pathways.

In the event of a change of land use, the planning regime and the National Planning Policy Framework 2019 (NPPF) require assessment of the new site development layout within the context of the sources of risk and the potential introduction of new exposure pathways. The assessment is also used to determine if the site contains such significant risks that it would class as "contaminated land" under the definition provided by the Part 2A of the Environment Act 1990 as defined in the Environment Protection Act 1995, i.e. significant possibility of significant harm (SPOSH). Once developed, land should not be capable of being classed as "contaminated land" under Part 2A.

The method used for risk evaluation is qualitative based on interpretation of the available Geoenvironmental data in order to provide an overall impression of the potential risks present at the site. This is described in terms of two variables as follows:

- **"Probability"** – being the likelihood that a hazard is present on site or in the surroundings.
- **"Consequence"** – being the potential outcome of the hazard.

The combination of these is used to define the risk. Clearly if a hazard is not present there can be no consequence. Similarly hazards that are potentially present will have different degrees of potential consequence. The combination of the presence of a hazard, and the potential severity of outcome of such a hazard within any event, can be used to manage the approach to management of the risk.

The **probability** (likelihood) and **consequence** (severity) can be classified using a qualitative system based CIRIA C552. The terms and definitions adopted are detailed in: Table 4.1 overleaf.

Table 4.1 Risk Classification System (after CIRIA 552)					
Risk probability x consequence		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Very low risk
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk
	No Linkage	No risk			

Tables 4.2 provides a Preliminary Conceptual Model showing the hazard (source), pathway and receptor, then probability and consequence and corresponding degree of risk.

Table 4.2 Source – Pathway – Receptor Model						
Source(s)	Possible Pathway(s)	Receptor(s)	Probability	Consequence	Risk Level	Comments
Unrecorded Made Ground containing hazardous materials	Ingestion, inhalation or direct dermal contact	End users	Likely	Medium	Moderate	Recommendation: ground investigation including near surface soil sampling to enable the chemical nature of these materials to be established and potential sources to be quantified and risks to be assessed.
		Ground workers	Likely	Medium	Moderate	
Naturally occurring contaminants within shallow weathered soils	Ingestion, inhalation or direct dermal contact	End users	Low	Medium	Low	
		Ground workers	Low	Medium	Low	
Excavating into made ground from existing landfill containing hazardous materials	Ingestion, inhalation or direct dermal contact	End users	Unlikely	Medium	Very Low	Proposed development site indicated to lie beyond the known extent of the landfill, which is well demarked by changes in site level. Presence of landfill material very unlikely.
		Ground workers	Unlikely	Medium	Very Low	

Ground gas derived from adjacent landfill	Inhalation of outdoor air or Preferential flow paths into buildings through unsaturated soil or services	End users	Low Likelihood	Medium	Low	Risk is minimal but should be reviewed once the thickness and composition of Made Ground is confirmed as part of a wider ground investigation.
		Ground workers	Low Likelihood	Medium	Low	
Radon	Inhalation of outdoor air (only)	End users	Likely	Severe	High	The site lies above geology known to present Radon risk. BGS data indicates basic protection is required for new dwellings.

The tables indicate that the site is considered as **Moderate** risk with respect to contamination.

## 5 Summary

The below geotechnical and contamination considerations are considered relevant to the proposed food waste building development at the site together with the proposed turning head on the access road to the north.

### 5.1 Geotechnical Considerations

- The underlying natural soils/bedrock should be suitable for conventional strip or pad foundations. An intrusive site investigation should be completed to confirm the soil profile across the site.
- Shallow rockhead will require breaking out in some services trenches.
- Ground bearing floor slabs may be appropriate depending on the nature of the shallow soils.
- Special measures for the protection of buried concrete may be required. Chemical analysis of the Drift should be completed and the grade of concrete assessed in line with BRE Special Digest 1, *Concrete in Aggressive Ground*, 2005, 3<sup>rd</sup> Edition.
- The proposed turning head is area is currently an embankment adjacent to the access road. This will require excavating down to provide a level turning area. The formation level is therefore likely to consist of slate bedrock. The sideslopes will require battering to a safe angle of repose or a retaining structure provided.

The general geotechnical risk is considered to be low. Intrusive investigations are due to be undertaken at the site, which will allow soil sampling and testing to fully assess the geotechnical risk and ground conditions at the site.

### 5.2 Contamination Considerations

- Potential gas risk arising from the adjacent landfill
- Potential for near-surface topsoil and/or subsoil to contain residual concentrations of contaminants or naturally occurring mineralisation.
- Full radon protection is required.

The general risk of significant contamination is considered to be **low**. The potential impact to the groundwater and local environment should be assessed by appropriate analysis of the soils and groundwater together with a risk assessment based on the site-specific criteria.

### 5.3 Recommendation for Further Investigation

Based on the desk study completed to date the following broad scope of investigation is recommended for the Refuse Transfer Station (RTS) development.

- Trial pitting to assess the shallow natural soils and diggability of anticipated shallow bedrock;
- A core through the existing haulage road to determine make-up and in situ CBR testing would be beneficial if soils of low CBR values are identified during the trial pitting.

- Geotechnical laboratory testing to include pH and water soluble sulphate, Atterberg limits, gradings and natural moisture content;
- Contaminated land testing to include a general indicator suite, speciated Total Petroleum and Polyaromatic Hydrocarbons; and
- WAC tests should be performed for off-site waste classification.

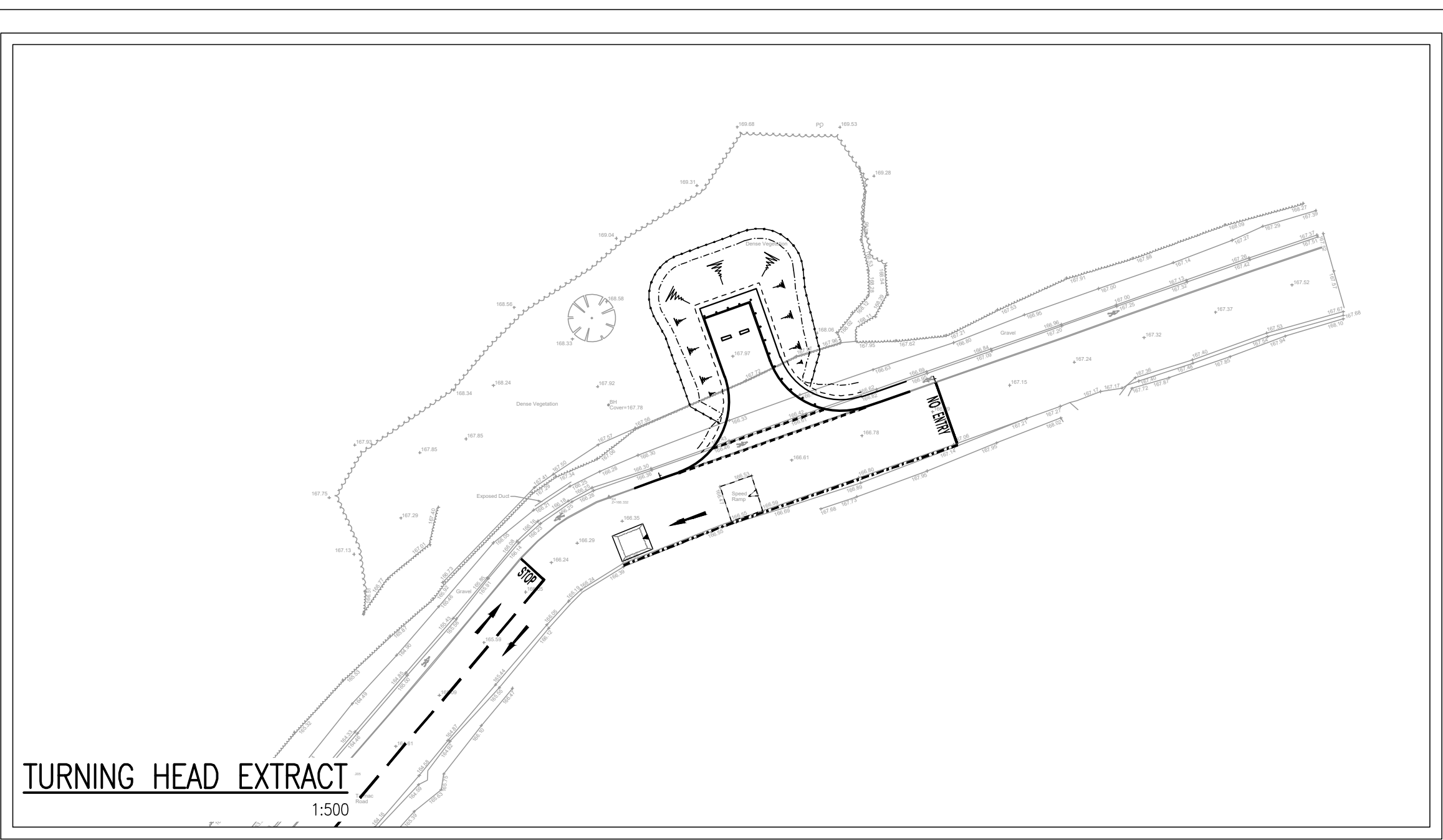
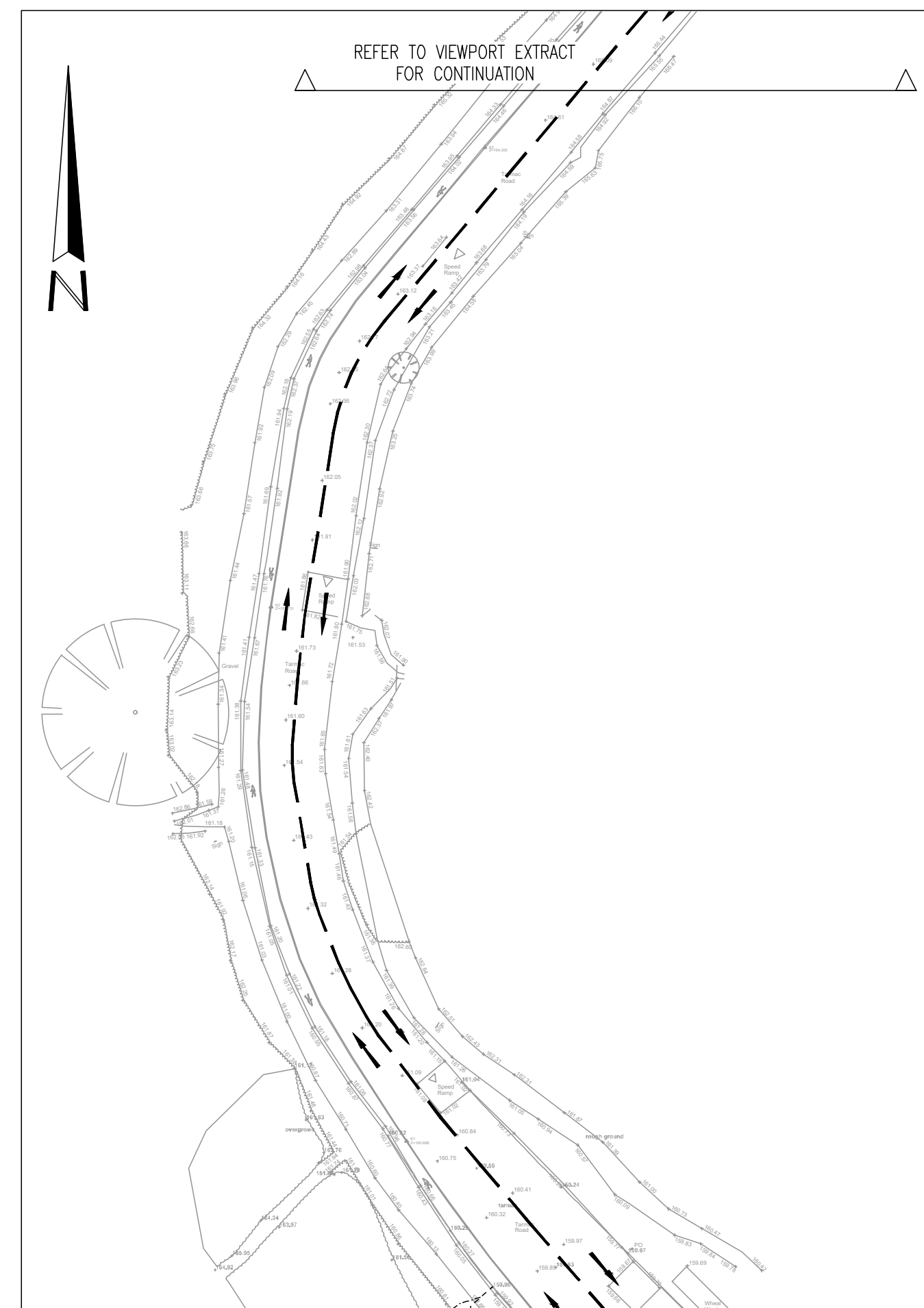
The new turning head is low risk and expected to be on bedrock, therefore no investigation of that area is considered necessary.

## **Appendices**

<b>Appendix A</b>	<b>Site Plan</b>
<b>Appendix B</b>	<b>Site Photos</b>
<b>Appendix C</b>	<b>Historic Maps</b>
<b>Appendix D</b>	<b>Groundsure Report</b>

## **Appendix A – Site Plan**





**CDM RESIDUAL RISKS**

The work shown on this drawing is both familiar to the designers and routinely safely built in similar circumstances by competent contractors.

Risks are not considered significant.

Relevant data is included in the Pre-Construction Information Pack.

Signed: JH Date: MAY 2020

NOTES:

- DO NOT SCALE THIS DRAWING FOR CONSTRUCTION PURPOSES.
- CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER
- SURVEY AND SITE INFORMATION SHOWN IS TAKEN FROM QUADRANT SURVEYS DRAWING NO 20.028 - 01/06-06/06 DATED MARCH 2020 + KEMP ENGINEERING & SURVEYING DRAWING NO 20-9284-001 DATED OCTOBER 2020. CLARKEBOND TAKE NO RESPONSIBILITY FOR ITS CONTENT OR ACCURACY.
- ALL LEVELS SHOWN ARE TO ORDNANCE DATUM.

THIS DRAWING IS FOR PLANNING APPLICATION USE ONLY. SCHEME INFORMATION SHOWN IS SUBJECT TO FINAL DESIGN AND APPROVALS

DWG INFO: N:\B1192\1025284 - CONNON BRIDGE\01 - INF\DR\_DRAWING\1025284-CHB-212-PROPOSED OVERALL SITE PLAN

0 10 20 30 40 50  
SCALE 1:500 (A1) METRES

PO3	UPDATED TO SUIT CLIENT COMMENTS	JH	MKR	30.10.20
PO2	UPDATED TO SUIT CLIENT COMMENTS	JH	MKR	24.07.20
Rev	Detail	By	Chk	Date
Revisions				

**Client**

**Project**

PROPOSED WASTE TRANSFER BUILDING, CONNON BRIDGE, LISKEARD, CORNWALL

**Drawing Status**

PLANNING APPROVAL

**clarkebond**

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**Drawing Title**

PROPOSED OVERALL SITE PLAN

Clarkebond Project No		Status	
E05284		S2	
Project	Chrisnator	Zone	Level
CNB	CB	XX	XX
Scale	1/500 @ A1	Date	06/2020
Drawn	JH	Checked	MKR
Sheet Size	A1	P03	

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## **Appendix B – Site Photos**



***Plate 1 (RTS Building Cut/Fill)***



***Plate 2 (Cut/Fill Slope looking N)***



***Plate 3 (Gabion Wall Reinforcement)***



***Plate 4 (Cut/Fill Slope looking SW)***

clarkebond



***Plate 5 (Existing Haulage Road looking N)***



***Plate 6 (Existing Haulage Road looking S)***



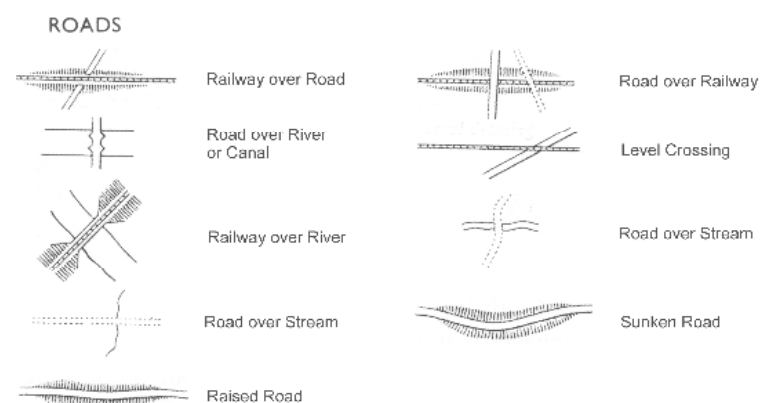
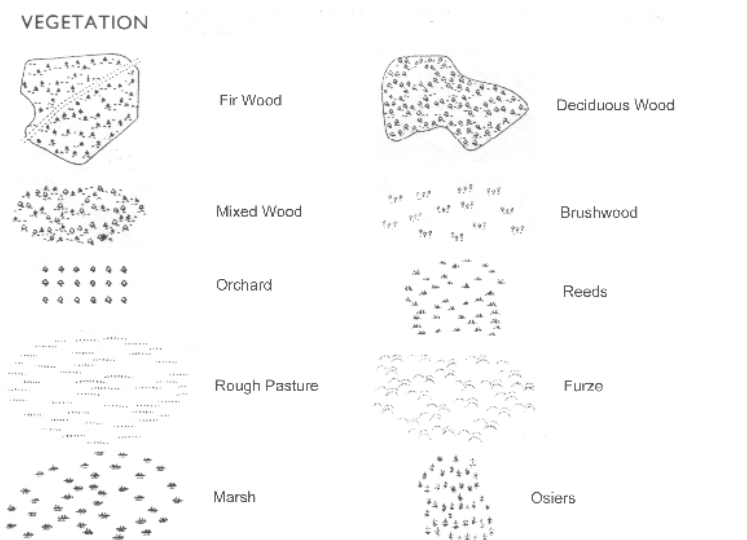
***Plate 7 (Proposed Pump House Location)***



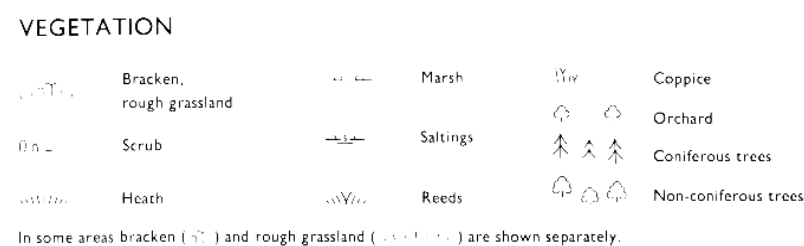
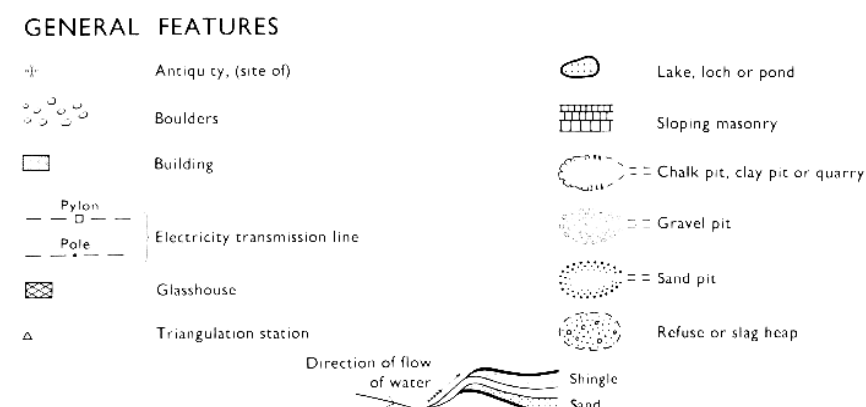
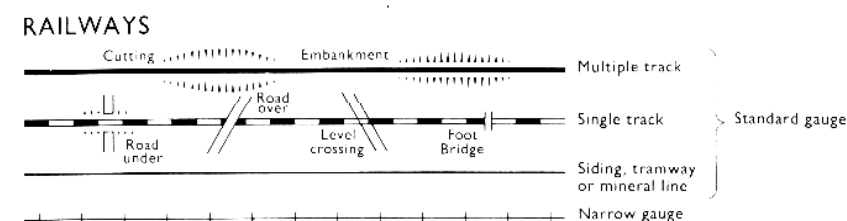
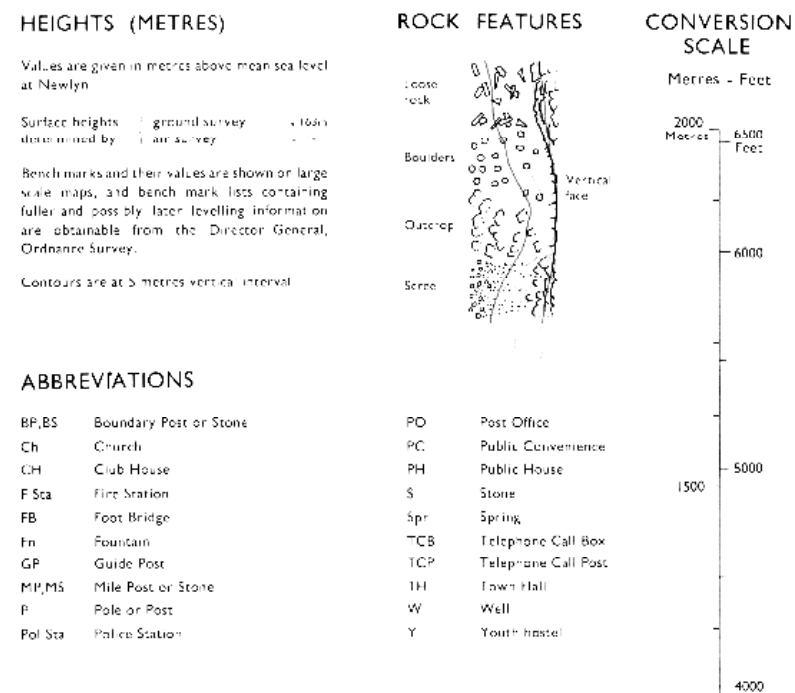
***Plate 8 (Existing Haulage Road looking N)***

## **Appendix C – Historical Maps**

## County Series 1:10,560 scale



## National Grid 1:10,000 scale



## Historical Map Pack Legend

## County Series & National Grid

## 1:10,560 scale

Information present on these legends is sourced from the same Ordnance Survey mapping as the maps used in this product.

If you have a query regarding any of the maps provided please contact GroundSure's technical helpline. We will endeavour to answer any queries you may have.

Technical Helpline

Tel 08444159000

[groundsuresight@groundsure.com](mailto:groundsuresight@groundsure.com)  
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**County Series 1:2,500 scale**

**National Grid 1:2,500 / 1:1,250  
scale**



## Historical Map Pack Legend

## County Series

## 1:1,250 scale



## County Series & National Grid

## 1:2,500 scale

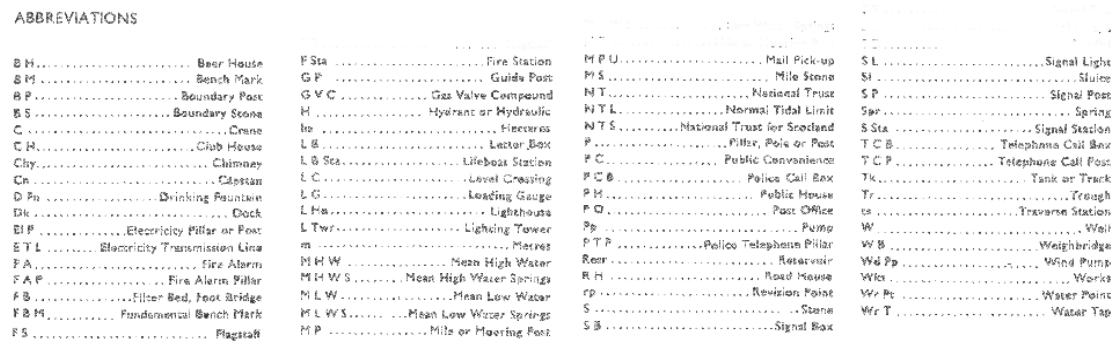
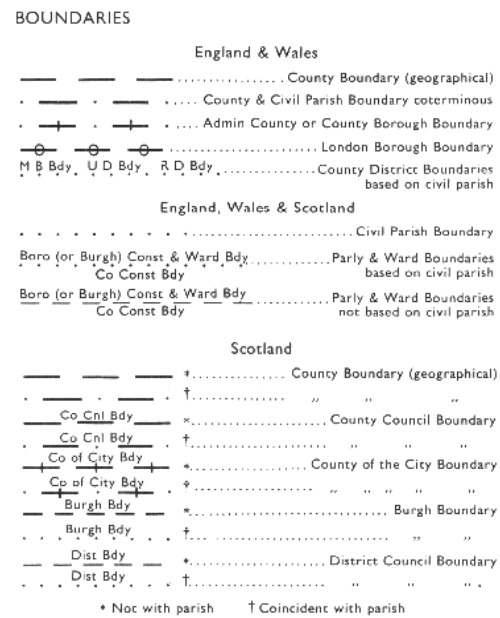
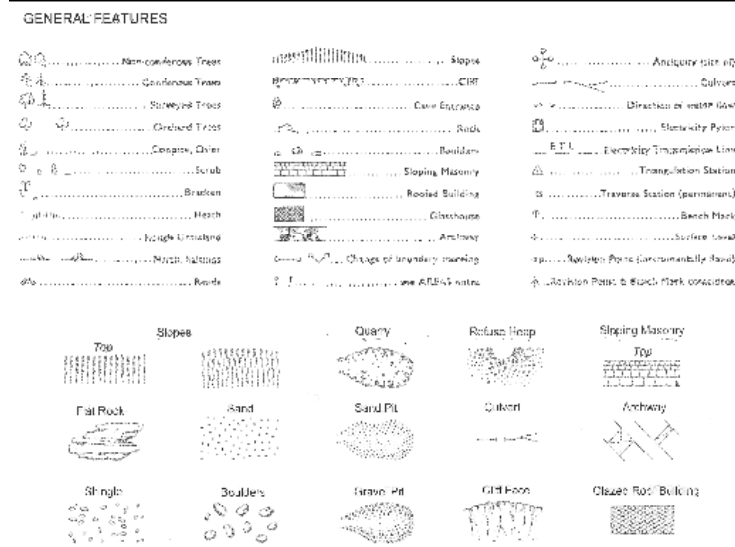
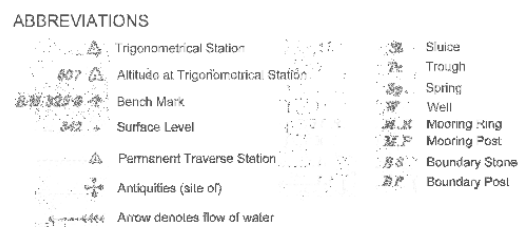
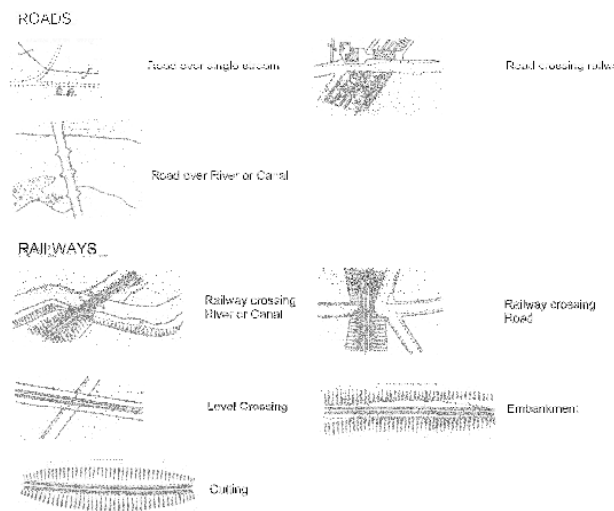
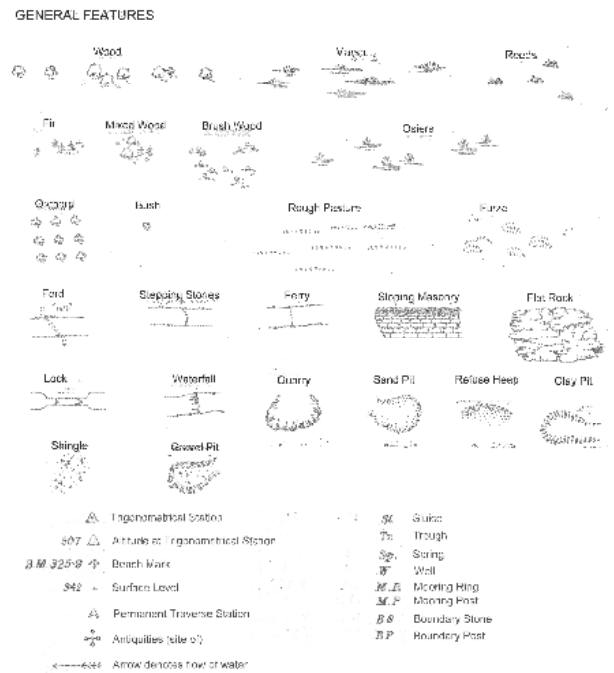
**Information present on these legends is sourced from the same Ordnance Survey mapping as the maps used in this product.**

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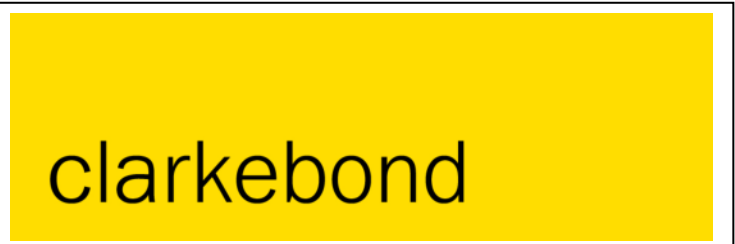
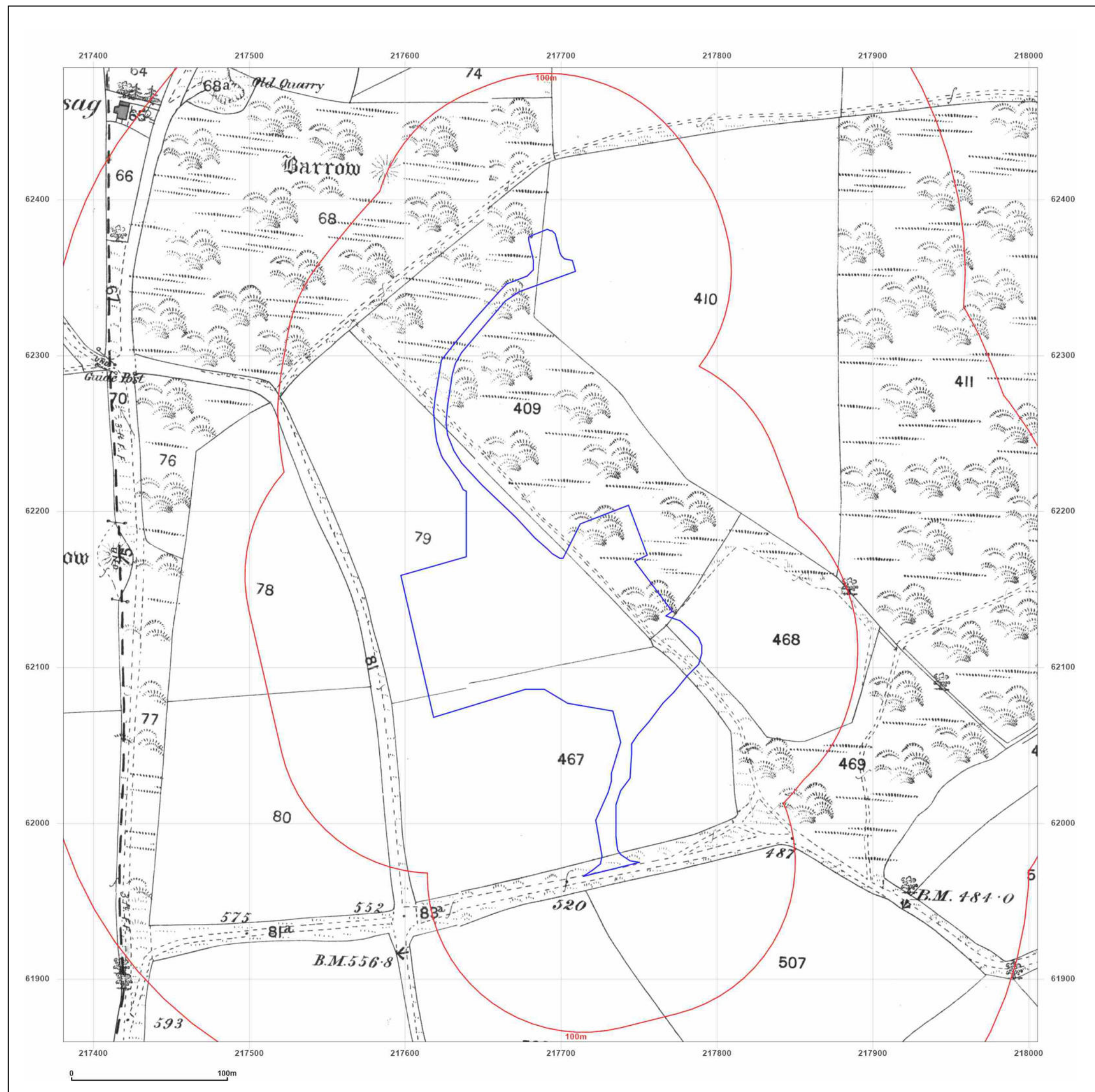
### Technical Helpline:

Tel 08444159000

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**Site Details:**

**Client Ref:** EMS\_667987\_880309  
**Report Ref:** EMS-CB-667987\_880309\_LS\_1\_1  
**Grid Ref:** 217693, 62172

**Map Name:** County Series  
**Map date:** 1882  
**Scale:** 1:2,500  
**Printed at:** 1:2,500

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Site Details:

Client Ref: EMS\_667987\_880309  
Report Ref: EMS-CB-667987\_880309\_LS\_1\_1  
Grid Ref: 217693, 62172

Map Name: National Grid

Map date: 1973-1975

Scale: 1:2,500

Printed at: 1:2,500



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Map legend available at:  
[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)







clarkebond

Site Details:

Client Ref: EMS\_667987\_880309  
Report Ref: EMS-CB-667987\_880309\_LS\_1\_1  
Grid Ref: 217693, 62172

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



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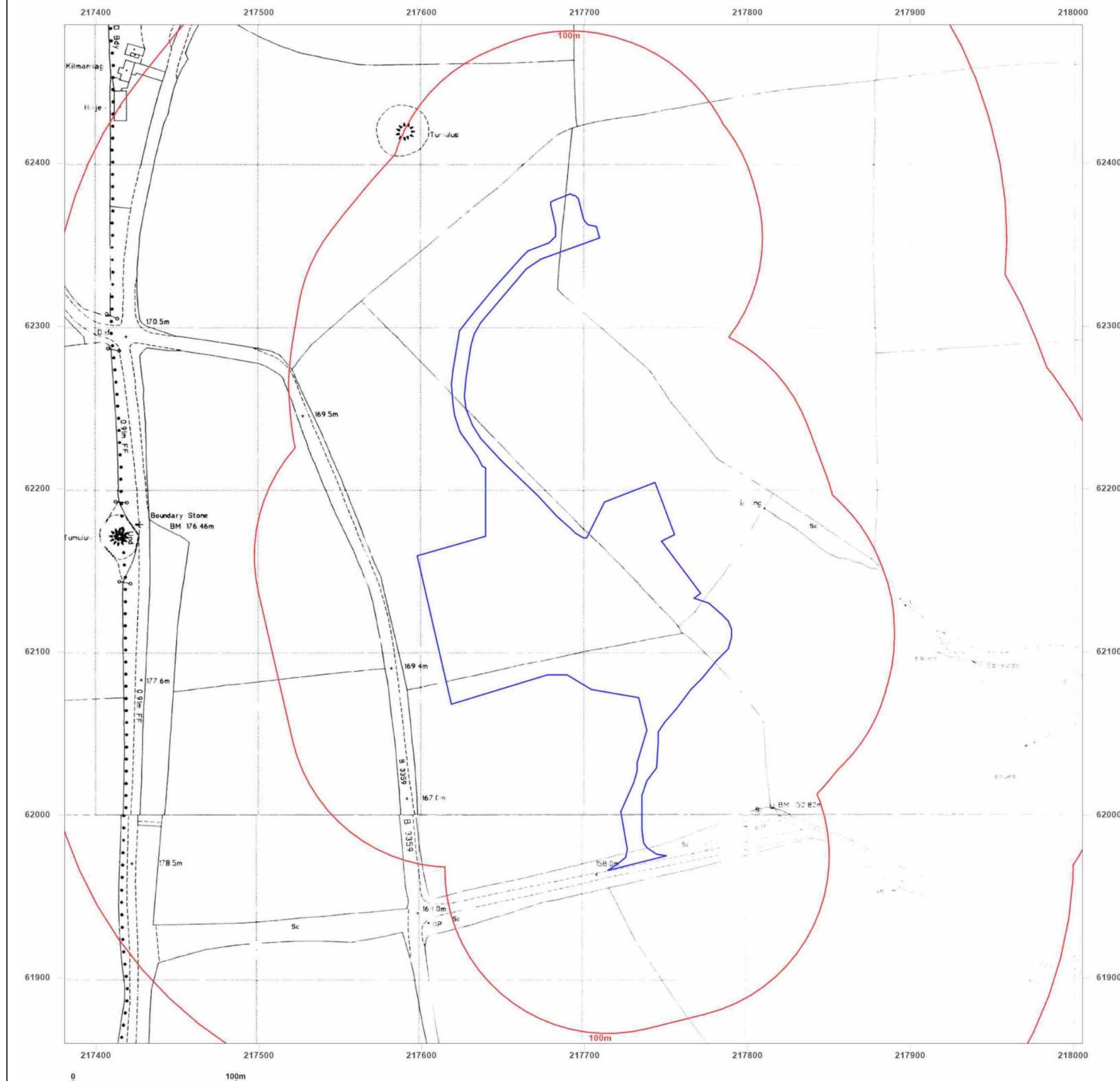


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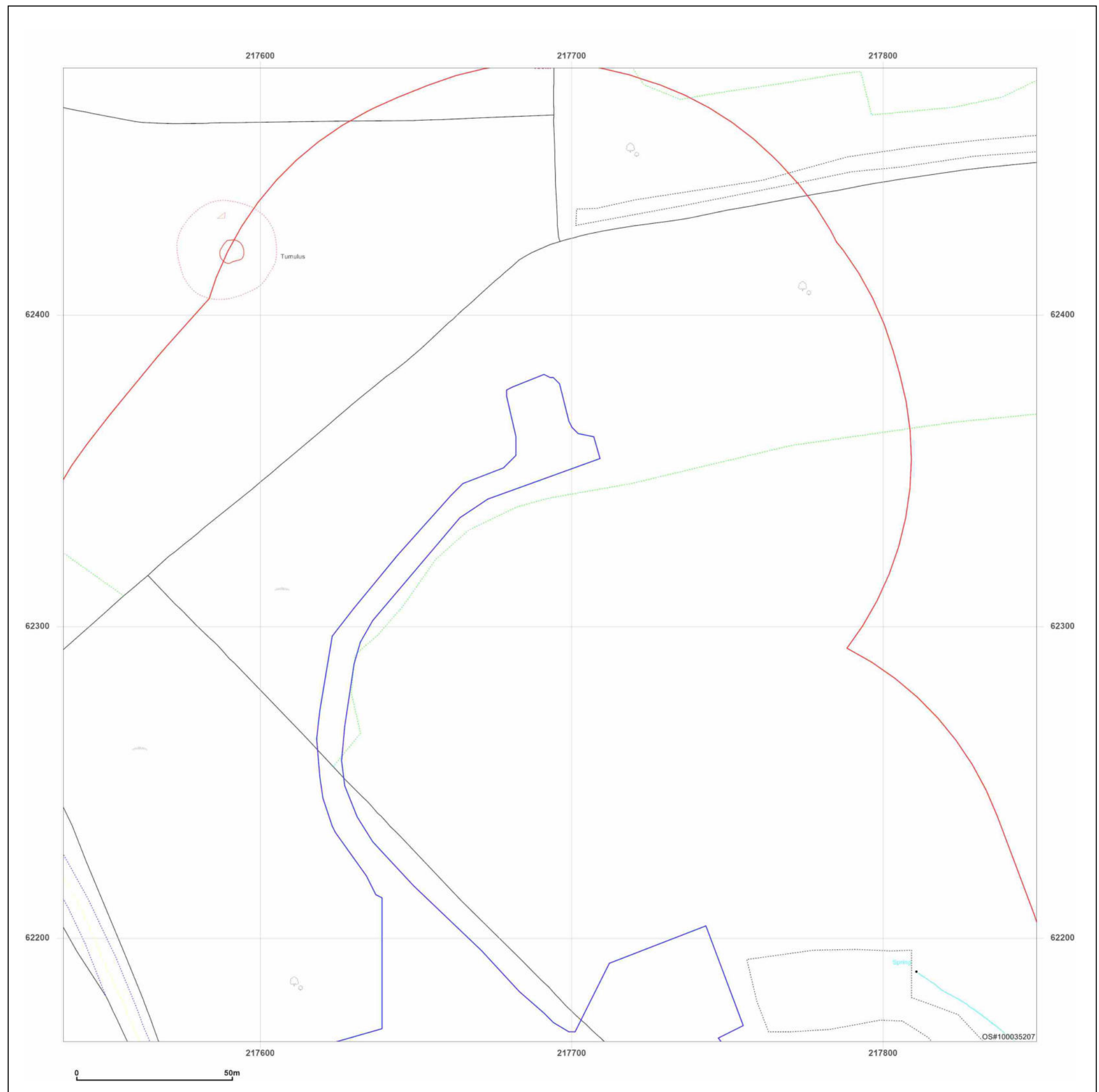
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Map legend available at:  
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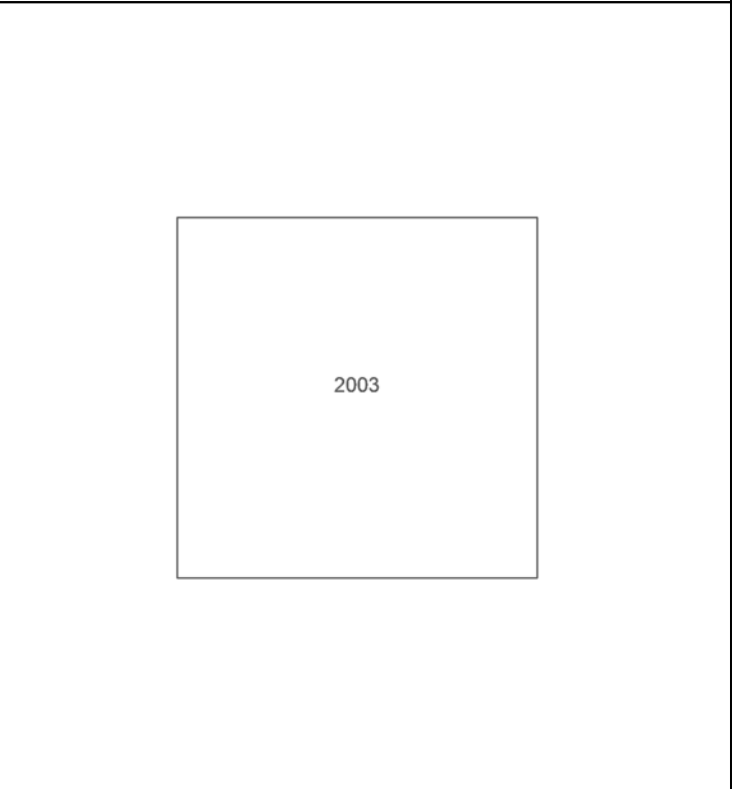




**Site Details:**

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**Report Ref:** EMS-CB-667987\_880309\_Landline\_1\_2  
**Grid Ref:** 217693, 62323

**Map Name:** LandLine  
**Map date:** 2003  
**Scale:** 1:1,250  
**Printed at:** 1:1,250



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Site Details:

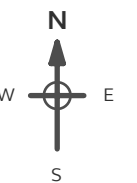
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**Report Ref:** EMS-CB-667987\_880309\_Landline\_1\_1  
**Grid Ref:** 217693, 62023

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

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



2003



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[www.groundsure.com/sites/default/files/groundsure\\_legend.pdf](http://www.groundsure.com/sites/default/files/groundsure_legend.pdf)





## **Appendix D – Groundsure Reports**

217690 062141

## Order Details

**Date:** 09/02/2021  
**Your ref:** EMS\_667987\_880308  
**Our Ref:** EMS-CB-667987\_880308  
**Client:** Clarkebond (UK) Limited

## Site Details

**Location:** 217690 062141  
**Area:** 2.14 ha  
**Authority:** [Cornwall Council \(Unitary\)](#)

**Summary of findings**p. 2 **Aerial image**

p. 6

**OS MasterMap site plan**p.11 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>12</b>	<b>1.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	3	1	-
13	1.2	Historical tanks	0	0	0	0	-
13	1.3	Historical energy features	0	0	0	0	-
13	1.4	Historical petrol stations	0	0	0	0	-
14	1.5	Historical garages	0	0	0	0	-
14	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<b>15</b>	<b>2.1</b>	<b><u>Historical industrial land uses</u></b>	0	0	4	2	-
16	2.2	Historical tanks	0	0	0	0	-
16	2.3	Historical energy features	0	0	0	0	-
16	2.4	Historical petrol stations	0	0	0	0	-
16	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
<b>17</b>	<b>3.1</b>	<b><u>Active or recent landfill</u></b>	1	0	0	0	-
18	3.2	Historical landfill (BGS records)	0	0	0	0	-
18	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
18	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
<b>18</b>	<b>3.5</b>	<b><u>Historical waste sites</u></b>	0	1	0	0	-
<b>19</b>	<b>3.6</b>	<b><u>Licensed waste sites</u></b>	0	3	0	0	-
<b>20</b>	<b>3.7</b>	<b><u>Waste exemptions</u></b>	0	0	2	8	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<b>22</b>	<b>4.1</b>	<b><u>Recent industrial land uses</u></b>	0	1	0	-	-
23	4.2	Current or recent petrol stations	0	0	0	0	-
23	4.3	Electricity cables	0	0	0	0	-
23	4.4	Gas pipelines	0	0	0	0	-
23	4.5	Sites determined as Contaminated Land	0	0	0	0	-



23	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
24	4.7	Regulated explosive sites	0	0	0	0	-
24	4.8	Hazardous substance storage/usage	0	0	0	0	-
24	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
<b>24</b>	<b><u>4.10</u></b>	<b><u>Licensed industrial activities (Part A(1))</u></b>	0	0	1	5	-
25	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
26	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>26</b>	<b><u>4.13</u></b>	<b><u>Licensed Discharges to controlled waters</u></b>	0	0	0	2	-
26	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
27	4.15	Pollutant release to public sewer	0	0	0	0	-
27	4.16	List 1 Dangerous Substances	0	0	0	0	-
27	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>27</b>	<b><u>4.18</u></b>	<b><u>Pollution Incidents (EA/NRW)</u></b>	6	4	2	9	-
30	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-
<b>Page</b>	<b>Section</b>	<b>Geology (basic)</b>					
31	5.1	Superficial geology (625k)	None (within 500m)				
<b>31</b>	<b><u>5.2</u></b>	<b><u>Bedrock geology (625k)</u></b>	Identified (within 500m)				
<b>Page</b>	<b>Section</b>	<b>Hydrogeology</b>	<b>On site</b>	<b>0-50m</b>	<b>50-250m</b>	<b>250-500m</b>	<b>500-2000m</b>
<b>32</b>	<b><u>6.1</u></b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>34</b>	<b><u>6.2</u></b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>35</b>	<b><u>6.3</u></b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
36	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
36	6.5	Groundwater vulnerability- local information	None (within 0m)				
<b>37</b>	<b><u>6.6</u></b>	<b><u>Groundwater abstractions</u></b>	0	0	1	0	31
45	6.7	Surface water abstractions	0	0	0	0	0
<b>45</b>	<b><u>6.8</u></b>	<b><u>Potable abstractions</u></b>	0	0	0	0	9
47	6.9	Source Protection Zones	0	0	0	0	-



48	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
<b>49</b>	<b><u>7.1</u></b>	<b><u>Water Network (OS MasterMap)</u></b>	0	0	1	-	-
<b>50</b>	<b><u>7.2</u></b>	<b><u>Surface water features</u></b>	0	0	1	-	-
<b>50</b>	<b><u>7.3</u></b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
<b>50</b>	<b><u>7.4</u></b>	<b><u>WFD Surface water bodies</u></b>	0	0	0	-	-
<b>51</b>	<b><u>7.5</u></b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
52	8.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
52	8.2	Historical Flood Events	0	0	0	-	-
52	8.3	Flood Defences	0	0	0	-	-
52	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	8.5	Flood Storage Areas	0	0	0	-	-
54	8.6	Flood Zone 2	None (within 50m)				
54	8.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
<b>55</b>	<b><u>9.1</u></b>	<b><u>Surface water flooding</u></b>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
<b>57</b>	<b><u>10.1</u></b>	<b><u>Groundwater flooding</u></b>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
58	11.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	11.4	Special Protection Areas (SPA)	0	0	0	0	0
59	11.5	National Nature Reserves (NNR)	0	0	0	0	0
60	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
<b>60</b>	<b><u>11.7</u></b>	<b><u>Designated Ancient Woodland</u></b>	0	0	0	0	5
60	11.8	Biosphere Reserves	0	0	0	0	0
61	11.9	Forest Parks	0	0	0	0	0



61	11.10	Marine Conservation Zones	0	0	0	0	0
61	11.11	Green Belt	0	0	0	0	0
61	11.12	Proposed Ramsar sites	0	0	0	0	0
61	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
62	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	11.15	Nitrate Sensitive Areas	0	0	0	0	0
62	11.16	Nitrate Vulnerable Zones	0	0	0	0	0
<b>63</b>	<b>11.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	<b>1</b>	-	-	-	-
64	11.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	12.1	World Heritage Sites	0	0	0	-	-
66	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	12.3	National Parks	0	0	0	-	-
66	12.4	Listed Buildings	0	0	0	-	-
66	12.5	Conservation Areas	0	0	0	-	-
<b>67</b>	<b>12.6</b>	<b><u>Scheduled Ancient Monuments</u></b>	0	0	1	-	-
67	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>68</b>	<b>13.1</b>	<b><u>Agricultural Land Classification</u></b>	Grade 4 (within 250m)				
69	13.2	Open Access Land	0	0	0	-	-
69	13.3	Tree Felling Licences	0	0	0	-	-
69	13.4	Environmental Stewardship Schemes	0	0	0	-	-
<b>70</b>	<b>13.5</b>	<b><u>Countryside Stewardship Schemes</u></b>	0	1	2	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>71</b>	<b>14.1</b>	<b><u>Priority Habitat Inventory</u></b>	2	2	2	-	-
72	14.2	Habitat Networks	0	0	0	-	-
72	14.3	Open Mosaic Habitat	0	0	0	-	-
72	14.4	Limestone Pavement Orders	0	0	0	-	-



## Recent aerial photograph



Capture Date: 22/06/2019

Site Area: 2.14ha





## Recent site history - 2016 aerial photograph



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Capture Date: 23/08/2016

Site Area: 2.14ha





## Recent site history - 2009 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 10/09/2009

Site Area: 2.14ha





## Recent site history - 2005 aerial photograph



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Capture Date: 08/06/2005

Site Area: 2.14ha





## Recent site history - 1999 aerial photograph



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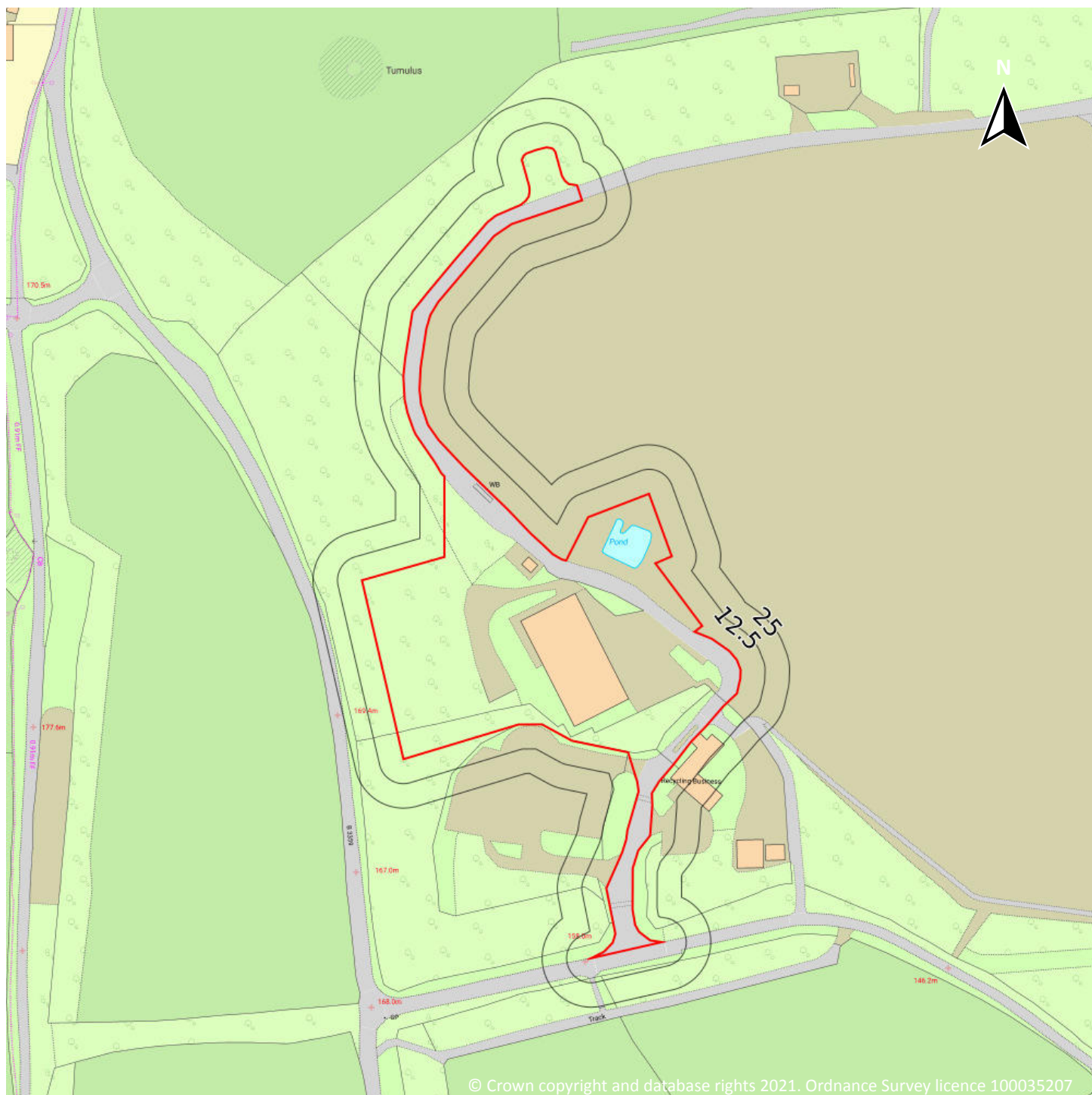
Capture Date: 24/07/1999

Site Area: 2.14ha





## OS MasterMap site plan



Site Area: 2.14ha



## 1 Past land use



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

### 1.1 Historical industrial land uses

#### Records within 500m

4

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 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 12**

ID	Location	Land use	Dates present	Group ID
A	199m NW	Unspecified Old Quarry	1881	394089



ID	Location	Land use	Dates present	Group ID
A	200m NW	Unspecified Quarry	1907 - 1958	417417
1	218m W	Nursery	1985	388040
2	333m SE	Unspecified Hole	1881 - 1905	426172

*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

6

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

Features are displayed on the Past land use - un-grouped map on **page 15**

ID	Location	Land Use	Date	Group ID
A	199m NW	Unspecified Old Quarry	1881	394089
A	200m NW	Unspecified Quarry	1907	417417
A	206m NW	Unspecified Quarry	1958	417417



ID	Location	Land Use	Date	Group ID
1	218m W	Nursery	1985	388040
B	333m SE	Unspecified Hole	1881	426172
B	333m SE	Unspecified Hole	1905	426172

*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)
- Active or recent landfill
- Historical waste sites
- Licensed waste sites
- Waste exemptions

### 3.1 Active or recent landfill

#### Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 17**

ID	Location	Details	
1	On site	<p><b>Operator:</b> SUEZ Recycling and Recovery UK Ltd</p> <p><b>Site Address:</b> Cannon Bridge Landfill, East Taphouse, Cornwall, PL14 4NP</p>	<p><b>WML Number:</b> 0</p> <p><b>EPR Reference:</b> -</p> <p><b>Landfill type:</b> WASTE LANDFILLING; &gt;10 T/D WITH CAPACITY &gt;25,000T EXCLUDING INERT WASTE</p> <p><b>Status:</b> Effective</p> <p><b>IPPC Reference:</b> -</p> <p><b>EPR Number:</b> -</p>



*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

1

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

Features are displayed on the Waste and landfill map on **page 17**

ID	Location	Address	Further Details	Date
2	7m S	Site Address: Cannon Bridge, East Taphouse, LISKEARD, Cornwall, PL14 4NP	Type of Site: Refuse Transfer Station Planning application reference: 06/01730/CN Description: Scheme comprises construction of temporary refuse transfer station. An application (ref: 06/01730/CN) for detailed planning permission was granted by Caradon D.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-



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

### 3.6 Licensed waste sites

#### Records within 500m

**3**

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

Features are displayed on the Waste and landfill map on **page 17**

ID	Location	Details		
A	3m W	Site Name: Connon Bridge Refuse Transfer Station & Clinical Waste Transfer Station Site Address: Connon Bridge, East Taphouse, Liskeard, Cornwall, PL14 4NP Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT018 EPR reference: EA/EPR/LP3596HX/A001 Operator: S I T A U K Ltd Waste Management licence No: 20106 Annual Tonnage: 160000	Issue Date: 30/08/2007 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	3m W	Site Name: Connon Bridge Transfer Station Site Address: Connon Bridge, East Taphouse, Liskeard, Cornwall, PL14 4NP Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT018 EPR reference: EA/EPR/LP3596HX/V002 Operator: Sita U K Ltd Waste Management licence No: 20106 Annual Tonnage: 160000	Issue Date: 30/08/2007 Effective Date: - Modified:: 17/12/2014 Surrendered Date: 0 Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
A	3m W	Site Name: Connon Bridge Transfer Station Site Address: Connon Bridge, East Taphouse, Liskeard, Cornwall, PL14 4NP Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT018 EPR reference: EA/EPR/LP3596HX/V003 Operator: Suez Recycling And Recovery U K Ltd Waste Management licence No: 20106 Annual Tonnage: 160000	Issue Date: 30/08/2007 Effective Date: - Modified:: 30/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

### 3.7 Waste exemptions

<b>Records within 500m</b>	<b>10</b>
----------------------------	-----------

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

Features are displayed on the Waste and landfill map on **page 17**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	177m W	-	WEX130986	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	177m W	-	WEX130986	Using waste exemption	Not on a farm	Use of waste in construction
C	281m NW	HOJEN, EAST TAPHOUSE, LISKEARD, PL14 4NN	WEX241994	Storing waste exemption	On a farm	Storage of waste in a secure place
C	281m NW	HOJEN, EAST TAPHOUSE, LISKEARD, PL14 4NN	WEX241994	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	281m NW	HOJEN, EAST TAPHOUSE, LISKEARD, PL14 4NN	WEX241994	Using waste exemption	On a farm	Use of waste in construction
C	283m NW	Cormac Kilmanzag Plot B3359 LISKEARD Cornwall PL14 4NN	EPR/HF0306XX /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	283m NW	Cormac Kilmanzag Plot B3359 LISKEARD Cornwall PL14 4NN	EPR/HF0306XX /A001	Treating waste exemption	Non-Agricultural Waste Only	Aerobic composting and associated prior treatment



ID	Location	Site	Reference	Category	Sub-Category	Description
C	283m NW	Cormac Kilmanzag Plot B3359 LISKEARD Cornwall PL14 4NN	EPR/HF0306XX /A001	Using waste exemption	Non- Agricultural Waste Only	Use of mulch
D	377m SE	(Hobbs) Penhole Farm LISKEARD Cornwall PL14 4NP	EPR/UE5884F A/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	377m SE	(Hobbs) Penhole Farm LISKEARD Cornwall PL14 4NP	EPR/UE5884F A/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit

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





## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 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 22**

ID	Location	Company	Address	Activity	Category
B	10m SE	Recycling Centre	Cornwall, PL14	Recycling Centres	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

6

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

Features are displayed on the Current industrial land use map on **page 22**

ID	Location	Details	
1	138m E	Operator: CLP ENVIROGAS LIMITED Installation Name: CONNON BRIDGE LANDFILL GUP EPR/BP3238LV Process: ASSOCIATED PROCESS Permit Number: VP3030QY Original Permit Number: BP3238LV	EPR Reference: - Issue Date: 04/12/2018 Effective Date: 04/12/2018 Last date noted as effective: 26/10/2020 Status: EFFECTIVE

ID	Location	Details	
D	262m E	Operator: SITA UK LIMITED Installation Name: CONNON BRIDGE LANDFILL EPR/UP3939MM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: AP3135MK Original Permit Number: UP3939MM	EPR Reference: - Issue Date: 28/06/2007 Effective Date: 28/06/2007 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
D	262m E	Operator: COUNTY ENVIRONMENTAL SERVICES LIMITED Installation Name: CONNON BRIDGE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BV7010IG Original Permit Number: BV7010IG	EPR Reference: - Issue Date: 04/01/2005 Effective Date: 04/01/2005 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
D	262m E	Operator: SITA UK LIMITED Installation Name: CONNON BRIDGE LANDFILL EPR/UP3939MM Process: ASSOCIATED PROCESS Permit Number: UP3939MM Original Permit Number: UP3939MM	EPR Reference: - Issue Date: 03/11/2006 Effective Date: 03/11/2006 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
D	262m E	Operator: SITA UK LIMITED Installation Name: CONNON BRIDGE LANDFILL EPR/UP3939MM Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: UP3939MM Original Permit Number: UP3939MM	EPR Reference: - Issue Date: 03/11/2006 Effective Date: 03/11/2006 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
D	262m E	Operator: SITA UK LIMITED Installation Name: CONNON BRIDGE LANDFILL EPR/UP3939MM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: UP3939MM Original Permit Number: UP3939MM	EPR Reference: - Issue Date: 03/11/2006 Effective Date: 03/11/2006 Last date noted as effective: 26/10/2020 Status: SUPERCEDED

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

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

### Records within 500m

0

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

*This data is sourced from Local Authority records.*





## 4.12 Radioactive Substance Authorisations

Records within 500m

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 22**

ID	Location	Address	Details	
5	424m SE	HIGHER PENHOLE FARM (COTTS 1,2,& 3), ST PINNOCK, LISKEARD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 300587/SA/01 Permit Version: 1 Receiving Water: -	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: - Revocation Date: -
E	473m SE	HIGHER PENHOLE FARM (COTTS 4-11), ST PINNOCK, LISKEARD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 300586/SA/01 Permit Version: 1 Receiving Water: -	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: - 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

21

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 22**

ID	Location	Details	
A	On site	Incident Date: 02/02/2015 Incident Identification: 1310506 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	On site	Incident Date: 15/01/2013 Incident Identification: 1078217 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

ID	Location	Details	
A	On site	<b>Incident Date: 09/04/2013</b> <b>Incident Identification: 1101055</b> <b>Pollutant: Atmospheric Pollutants and Effects</b> <b>Pollutant Description: Landfill Odour</b>	<b>Water Impact: Category 4 (No Impact)</b> <b>Land Impact: Category 4 (No Impact)</b> <b>Air Impact: Category 2 (Significant)</b>
A	On site	<b>Incident Date: 07/01/2013</b> <b>Incident Identification: 1075726</b> <b>Pollutant: Atmospheric Pollutants and Effects</b> <b>Pollutant Description: Landfill Odour</b>	<b>Water Impact: Category 4 (No Impact)</b> <b>Land Impact: Category 4 (No Impact)</b> <b>Air Impact: Category 2 (Significant)</b>
A	On site	<b>Incident Date: 10/01/2013</b> <b>Incident Identification: 1076821</b> <b>Pollutant: Atmospheric Pollutants and Effects</b> <b>Pollutant Description: Landfill Odour</b>	<b>Water Impact: Category 4 (No Impact)</b> <b>Land Impact: Category 4 (No Impact)</b> <b>Air Impact: Category 2 (Significant)</b>
A	On site	<b>Incident Date: 18/12/2012</b> <b>Incident Identification: 1069419</b> <b>Pollutant: Atmospheric Pollutants and Effects</b> <b>Pollutant Description: Landfill Odour</b>	<b>Water Impact: Category 4 (No Impact)</b> <b>Land Impact: Category 4 (No Impact)</b> <b>Air Impact: Category 2 (Significant)</b>
B	1m SE	Incident Date: 09/01/2013 Incident Identification: 1076691 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	1m W	Incident Date: 18/12/2012 Incident Identification: 1069059 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
A	1m W	Incident Date: 18/01/2013 Incident Identification: 1079148 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
B	13m SE	Incident Date: 02/02/2013 Incident Identification: 1083272 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
2	148m E	Incident Date: 15/11/2013 Incident Identification: 1176535 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	248m NW	Incident Date: 02/03/2013 Incident Identification: 1090959 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
C	253m NW	Incident Date: 03/03/2013 Incident Identification: 1091170 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
D	255m E	Incident Date: 15/02/2013 Incident Identification: 1087039 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	257m NW	Incident Date: 01/03/2013 Incident Identification: 1090700 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	275m NW	Incident Date: 04/03/2013 Incident Identification: 1091214 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
3	395m NE	Incident Date: 03/02/2005 Incident Identification: 291103 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
4	423m E	Incident Date: 13/12/2001 Incident Identification: 48088 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6	432m SE	Incident Date: 09/02/2013 Incident Identification: 1085086 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
E	444m SE	Incident Date: 29/11/2012 Incident Identification: 1063731 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	451m E	Incident Date: 07/12/2005 Incident Identification: 364694 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

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





## 4.19 Pollution inventory substances

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

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

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

## 4.20 Pollution inventory waste transfers

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

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

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

## 4.21 Pollution inventory radioactive waste

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

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

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

## 5 Geology (basic)

### 5.1 Superficial geology (625k)

Records within 500m

0

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

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

### 5.2 Bedrock geology (625k)

Records within 500m

1

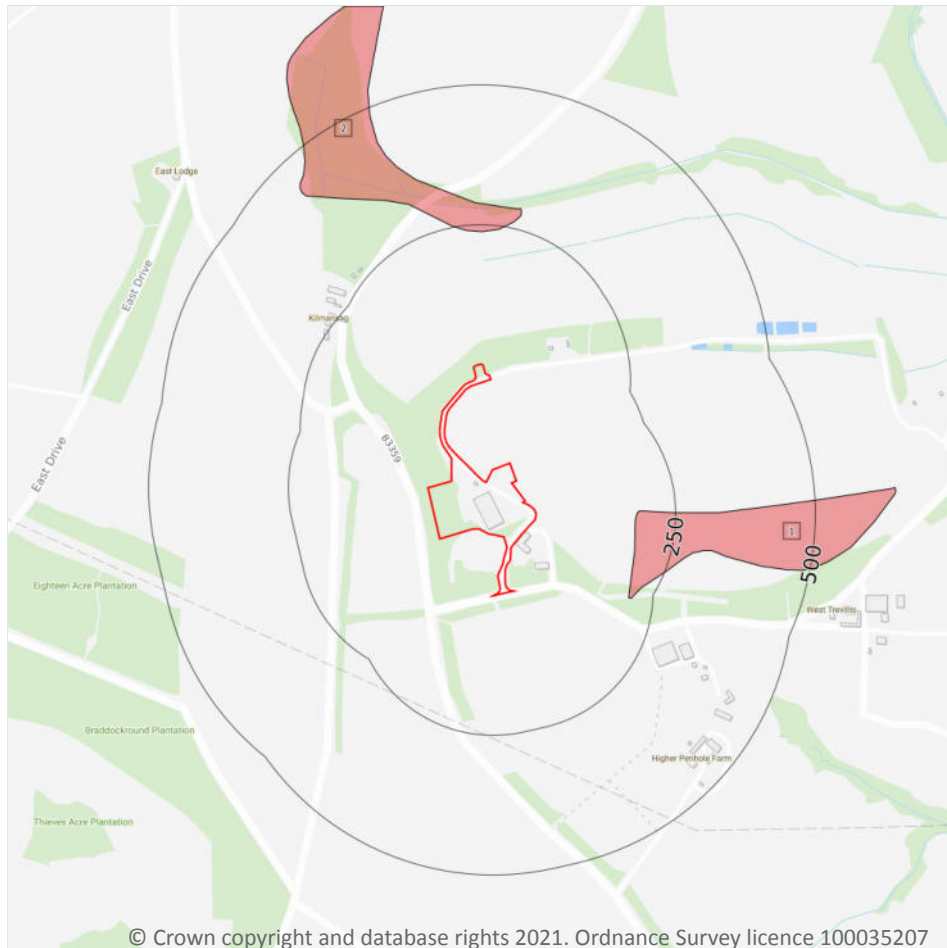
Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	MDEV-MDSS	MIDDLE DEVONIAN (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE AND SANDSTONE

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



## 6 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive
  - Unknown

### 6.1 Superficial aquifer

#### Records within 500m

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 32**

ID	Location	Designation	Description
1	178m 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
2	237m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

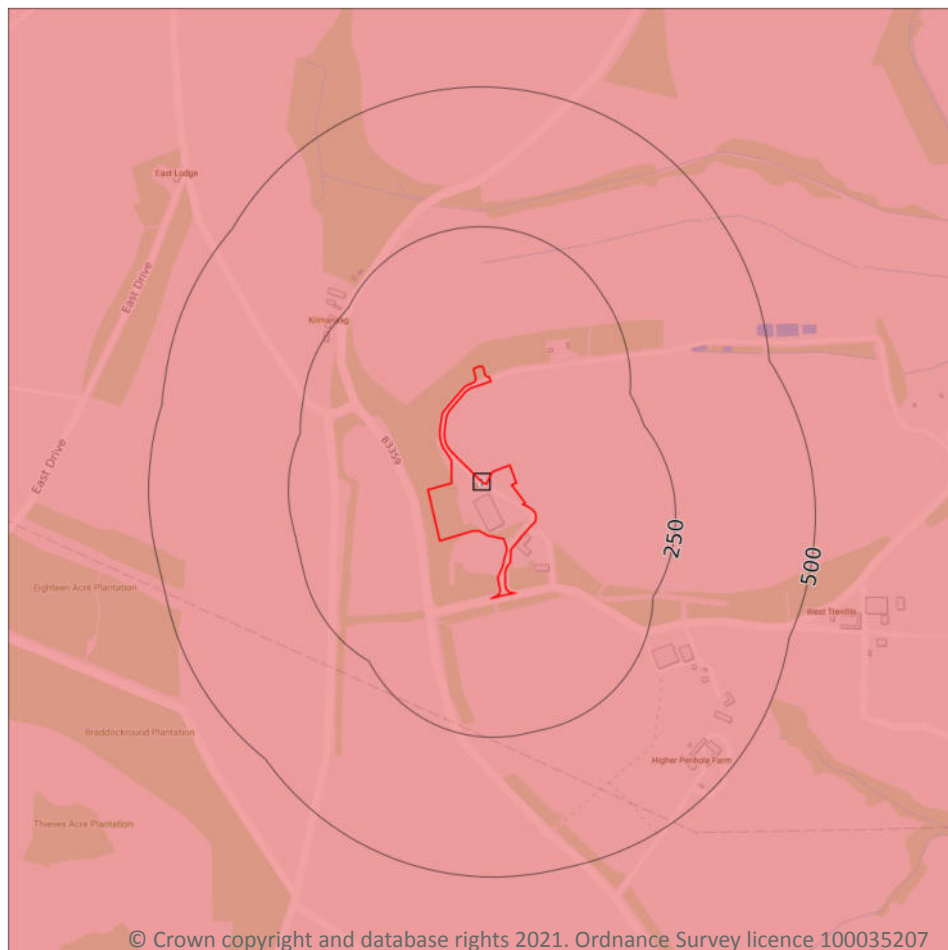


*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*





## Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive

### 6.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

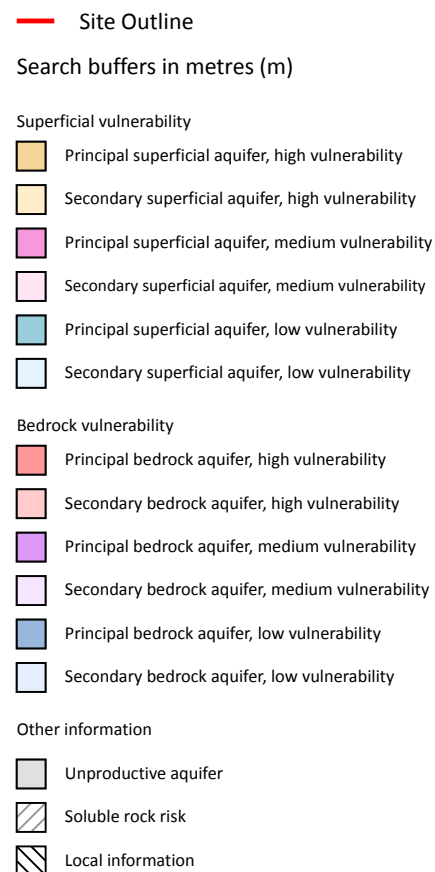
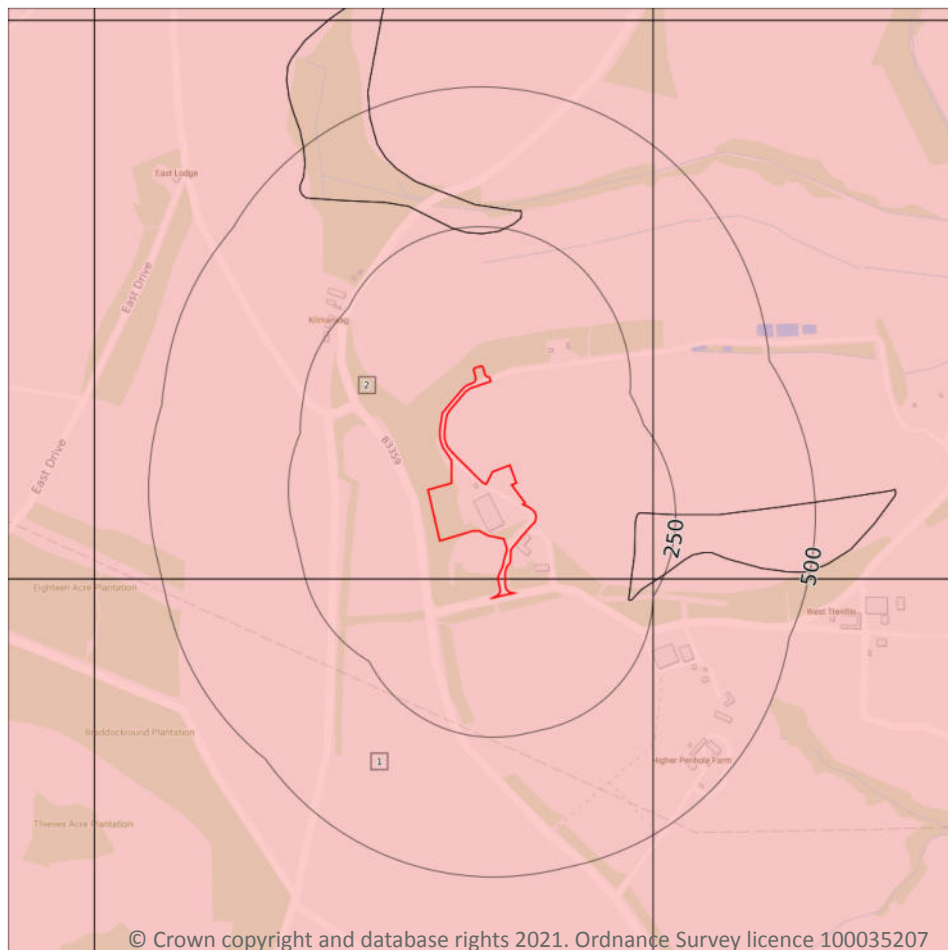
Features are displayed on the Bedrock aquifer map on **page 34**

ID	Location	Designation	Description
1	On site	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.*



## Groundwater vulnerability



### 6.3 Groundwater vulnerability

#### Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

## 6.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

## 6.5 Groundwater vulnerability- local information

Records on site

0

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

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



## Abstractions and Source Protection Zones



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

### 6.6 Groundwater abstractions

#### Records within 2000m

32

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

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





ID	Location	Details	
1	72m SE	Status: Historical Licence No: 15/48/173/G/063 Details: Process Water Direct Source: Ground Water - Fresh Point: BOREHOLE AT CONNON BRIDGE LANDFILL Data Type: Point Name: SITA Ltd Easting: 217820 Northing: 62030	Annual Volume (m <sup>3</sup> ): 16060 Max Daily Volume (m <sup>3</sup> ): 44 Original Application No: - Original Start Date: 22/05/2006 Expiry Date: 31/03/2016 Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -
A	521m E	Status: Historical Licence No: 15/48/173/G/051 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: WEST TREVILLIS - SPRING Data Type: Point Name: Cornwall County Council Easting: 218300 Northing: 62000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 14/04/1988 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
A	521m E	Status: Historical Licence No: 15/48/173/G/051 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: WEST TREVILLIS - SPRING Data Type: Point Name: Cornwall County Council Easting: 218300 Northing: 62000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 14/04/1988 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
A	521m E	Status: Historical Licence No: 15/48/173/G/051 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: WEST TREVILLIS - SPRING Data Type: Point Name: Cornwall County Council Easting: 218300 Northing: 62000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 14/04/1988 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
-	1056m SW	Status: Historical Licence No: 15/48/174/G/056 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "ROSELYON FARM, BOCONNOC - SPRING A" Data Type: Point Name: Lee Easting: 216800 Northing: 61400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 03/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -



ID	Location	Details	
-	1056m SW	Status: Historical Licence No: 15/48/174/G/056 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: ROSELYON FARM, BOCONNOC - SPRING A Data Type: Point Name: Lee Easting: 216800 Northing: 61400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 03/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1060m W	Status: Historical Licence No: 15/48/174/G/063 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "PENVENTON FARM, BOCONNOC - TAPPED SPRING" Data Type: Point Name: Foot Easting: 216540 Northing: 62250	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 19/12/1997 Expiry Date: - Issue No: 100 Version Start Date: 19/12/1997 Version End Date: -
-	1060m W	Status: Historical Licence No: 15/48/174/G/063 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: PENVENTON FARM, BOCONNOC - TAPPED SPRING Data Type: Point Name: Foot Easting: 216540 Northing: 62250	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 19/12/1997 Expiry Date: - Issue No: 100 Version Start Date: 19/12/1997 Version End Date: -
-	1255m SE	Status: Historical Licence No: 15/48/173/G/043 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "WILTON FARM, ST. PINNOCK - BOREHOLE A" Data Type: Point Name: Tamblyn Bros Easting: 218400 Northing: 60900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/08/1978 Expiry Date: - Issue No: 100 Version Start Date: 10/03/1993 Version End Date: -
-	1255m SE	Status: Historical Licence No: 15/48/173/G/043 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: WILTON FARM, ST. PINNOCK - BOREHOLE A Data Type: Point Name: Bolitho Easting: 218400 Northing: 60900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/08/1978 Expiry Date: - Issue No: 101 Version Start Date: 20/12/2002 Version End Date: -



ID	Location	Details	
-	1533m N	Status: Historical Licence No: 15/48/018/G/090 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "TRAGO MILLS, TWOWATERSFOOT - SPRING" Data Type: Point Name: Robertson (Developments) Ltd Easting: 217900 Northing: 63900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/01/1988 Expiry Date: - Issue No: 100 Version Start Date: 13/01/1988 Version End Date: -
-	1533m N	Status: Historical Licence No: 15/48/018/G/090 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: TRAGO MILLS, TWOWATERSFOOT - SPRING Data Type: Point Name: Charles Robertson (Developments) Ltd Easting: 217900 Northing: 63900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/01/1988 Expiry Date: - Issue No: 100 Version Start Date: 13/01/1988 Version End Date: -
-	1643m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "WOODLAY FARM, LANREATH - TAPPED SPRING" Data Type: Point Name: Hawke Easting: 218900 Northing: 60800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1643m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "WOODLAY FARM, LANREATH - TAPPED SPRING" Data Type: Point Name: Hawke Easting: 218900 Northing: 60800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -



ID	Location	Details	
-	1643m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: WOODLAY FARM, LANREATH - TAPPED SPRING Data Type: Point Name: Hawke Easting: 218900 Northing: 60800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1643m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: WOODLAY FARM, LANREATH - TAPPED SPRING Data Type: Point Name: Hawke Easting: 218900 Northing: 60800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - WELL" Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - WELL" Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - WELL" Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -





ID	Location	Details	
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - WELL Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - WELL Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - WELL Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - BOREHOLE" Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - BOREHOLE" Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -



ID	Location	Details	
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - BOREHOLE" Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - BOREHOLE Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - BOREHOLE Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - BOREHOLE Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -



ID	Location	Details	
-	1949m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: "WOODLAY FARM, LANREATH - BOREHOLE" Data Type: Point Name: Hawke Easting: 218900 Northing: 60400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1949m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "WOODLAY FARM, LANREATH - BOREHOLE" Data Type: Point Name: Hawke Easting: 218900 Northing: 60400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1949m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: WOODLAY FARM, LANREATH - BOREHOLE Data Type: Point Name: Hawke Easting: 218900 Northing: 60400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -
-	1949m SE	Status: Historical Licence No: 15/48/173/G/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: WOODLAY FARM, LANREATH - BOREHOLE Data Type: Point Name: Hawke Easting: 218900 Northing: 60400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 08/01/1980 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1980 Version End Date: -

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



## 6.7 Surface water abstractions

Records within 2000m

0

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

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

## 6.8 Potable abstractions

Records within 2000m

9

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

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

ID	Location	Details	
A	521m E	Status: Historical Licence No: 15/48/173/G/051 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: WEST TREVILLIS - SPRING Data Type: Point Name: Cornwall County Council Easting: 218300 Northing: 62000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 14/04/1988 Expiry Date: - Issue No: 100 Version Start Date: 30/09/1991 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - WELL" Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -



ID	Location	Details	
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - WELL" Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - WELL Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1829m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - WELL Data Type: Point Name: Tamblyn Easting: 218330 Northing: 60240	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - BOREHOLE" Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -





ID	Location	Details	
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - Fresh Point: "BOTELET FARM, LANREATH - BOREHOLE" Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - BOREHOLE Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -
-	1855m S	Status: Historical Licence No: 15/48/174/G/042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: BOTELET FARM, LANREATH - BOREHOLE Data Type: Point Name: Tamblyn Easting: 218290 Northing: 60200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/04/1998 Version End Date: -

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

## 6.9 Source Protection Zones

**Records within 500m**

**0**

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

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



## 6.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



## 7 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

### 7.1 Water Network (OS MasterMap)

#### Records within 250m

1

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 49**

ID	Location	Type of water feature	Ground level	Permanence	Name
3	185m 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.*



## 7.2 Surface water features

### Records within 250m

1

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 49**

*This data is sourced from the Ordnance Survey.*

## 7.3 WFD Surface water body catchments

### Records on site

1

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

Features are displayed on the Hydrology map on **page 49**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	West Looe River	GB108048002000	Seaton, Looe and Polperro	North Cornwall, Seaton, Looe and Fowey

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

## 7.4 WFD Surface water bodies

### Records identified

1

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

Features are displayed on the Hydrology map on **page 49**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	279m N	River	West Looe River	<a href="#">GB108048002000</a>	Poor	Good	Poor	2016



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

## 7.5 WFD Groundwater bodies

### Records on site

**1**

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

Features are displayed on the Hydrology map on **page 49**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Looe and Fowey	<a href="#"><u>GB40802G806600</u></a>	Poor	Poor	Good	2015

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





## 8 River and coastal flooding

### 8.1 Risk of Flooding from Rivers and Sea (RoFRaS)

#### Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

### 8.2 Historical Flood Events

#### Records within 250m

0

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

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

### 8.3 Flood Defences

#### Records within 250m

0

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

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

### 8.4 Areas Benefiting from Flood Defences

#### Records within 250m

0

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

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



## 8.5 Flood Storage Areas

Records within 250m

0

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

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



## River and coastal flooding - Flood Zones

### 8.6 Flood Zone 2

Records within 50m

0

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

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

### 8.7 Flood Zone 3

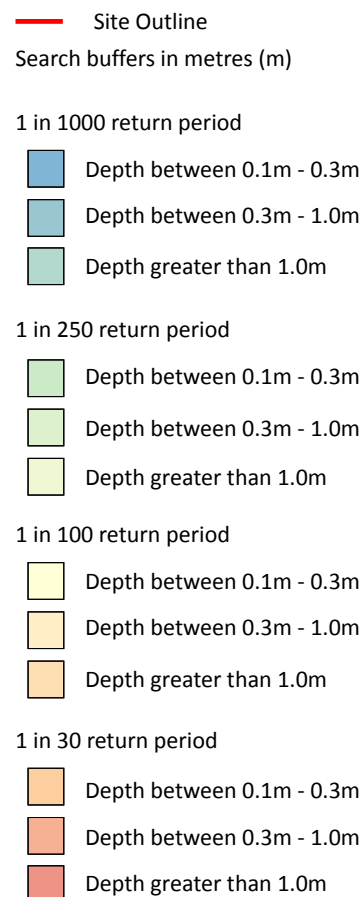
Records within 50m

0

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

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

## 9 Surface water flooding



### 9.1 Surface water flooding

**Highest risk on site**

**1 in 30 year, Greater than 1.0m**

**Highest risk within 50m**

**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 55**

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.

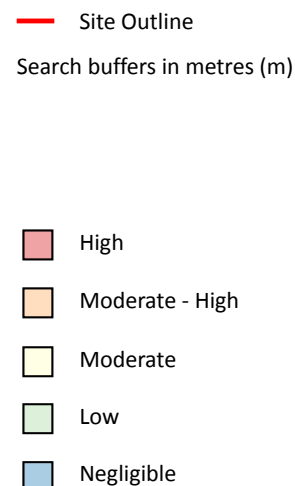
Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

*This data is sourced from Ambiantal Risk Analytics.*





## 10 Groundwater flooding



### 10.1 Groundwater flooding

**Highest risk on site**

**Negligible**

**Highest risk within 50m**

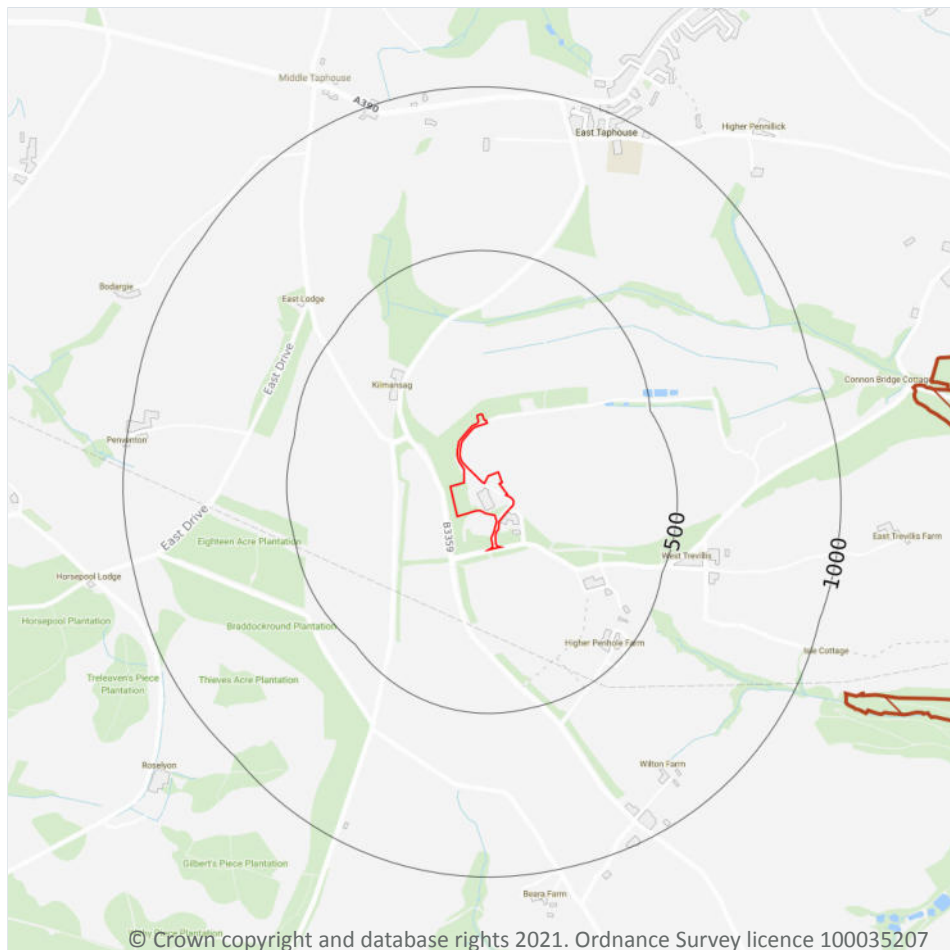
**Negligible**

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 57**

*This data is sourced from Ambiantal Risk Analytics.*

## 11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

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

#### Records within 2000m

0

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

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

## 11.2 Conserved wetland sites (Ramsar sites)

**Records within 2000m****0**

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

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

## 11.3 Special Areas of Conservation (SAC)

**Records within 2000m****0**

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

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

## 11.4 Special Protection Areas (SPA)

**Records within 2000m****0**

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

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

## 11.5 National Nature Reserves (NNR)

**Records within 2000m****0**

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

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

## 11.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

## 11.7 Designated Ancient Woodland

Records within 2000m

5

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 58**

ID	Location	Name	Woodland Type
1	1146m SE	Glasshouse/hartswell Wood	Ancient Replanted Woodland
2	1329m E	Glasshouse/hartswell Wood	Ancient & Semi-Natural Woodland
-	1404m N	Lantresse Wood	Ancient Replanted Woodland
-	1768m NW	Lantresse Wood	Ancient Replanted Woodland
-	1884m NW	Lantresse Wood	Ancient & Semi-Natural Woodland

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

## 11.8 Biosphere Reserves

Records within 2000m

0

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

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



## 11.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*

## 11.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 11.11 Green Belt

Records within 2000m

0

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

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

## 11.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 11.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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





### 11.14 Potential Special Protection Areas (pSPA)

**Records within 2000m****0**

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

*This data is sourced from Natural England.*

### 11.15 Nitrate Sensitive Areas

**Records within 2000m****0**

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

*This data is sourced from Natural England.*

### 11.16 Nitrate Vulnerable Zones

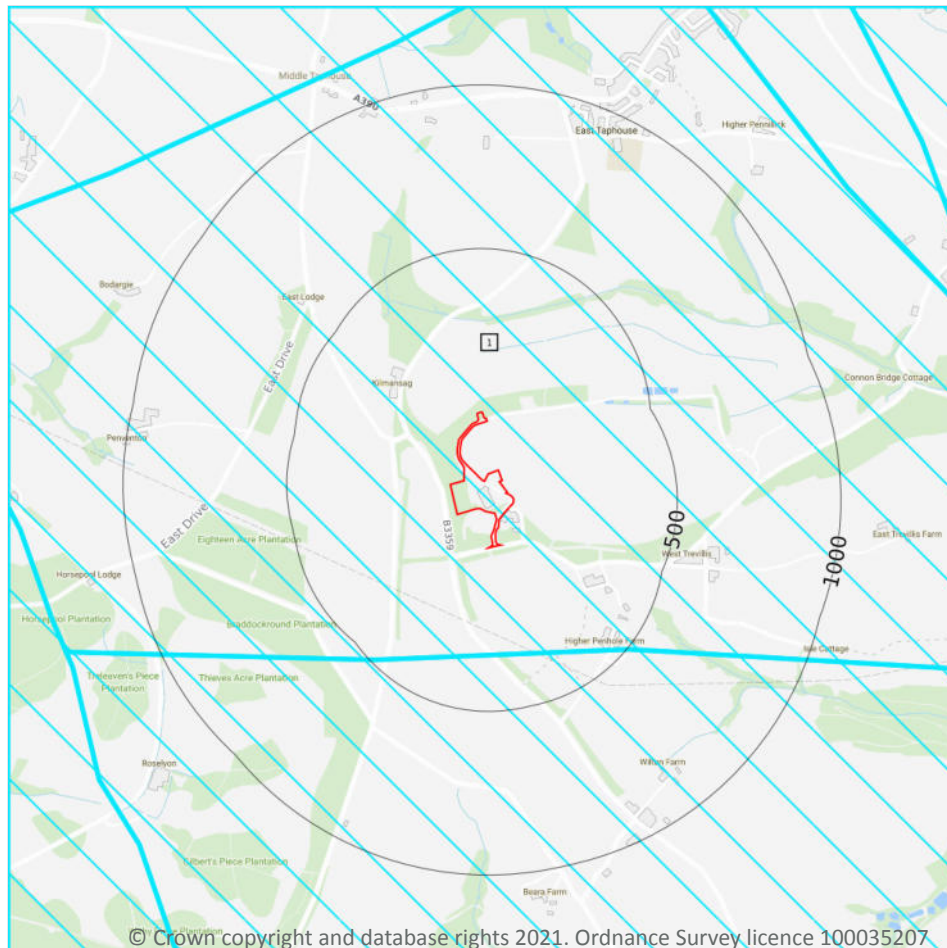
**Records within 2000m****0**

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

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



## SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

### 11.17 SSSI Impact Risk Zones

#### Records on site

1

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

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

ID	Location	Type of developments requiring consultation
1	On site	<b>Infrastructure - Airports, helipads and other aviation proposals.</b> <b>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &gt; 750m<sup>2</sup> &amp; manure stores &gt; 3500t.</b>

*This data is sourced from Natural England.*



## 11.18 SSSI Units

Records within 2000m

0

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

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



## 12 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

### 12.1 World Heritage Sites

Records within 250m

0

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

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

## 12.2 Area of Outstanding Natural Beauty

**Records within 250m****0**

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

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

## 12.3 National Parks

**Records within 250m****0**

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

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

## 12.4 Listed Buildings

**Records within 250m****0**

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

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

## 12.5 Conservation Areas

**Records within 250m****0**

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





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

## 12.6 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 65**

ID	Location	Ancient monument name	Reference number
1	175m W	Bowl barrow 780m east of Penventon	1004434

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

## 12.7 Registered Parks and Gardens

### Records within 250m

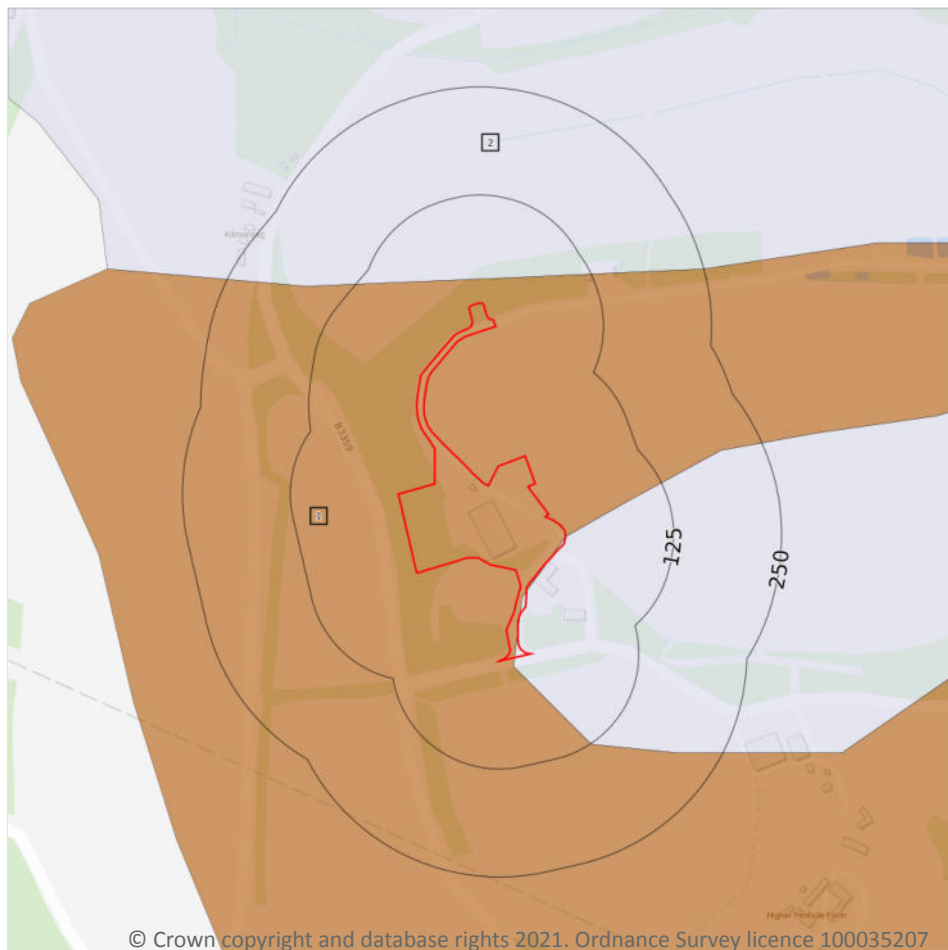
**0**

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

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



## 13 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

### 13.1 Agricultural Land Classification

Records within 250m

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 68**

ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
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.*

## 13.2 Open Access Land

Records within 250m

0

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

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

## 13.3 Tree Felling Licences

Records within 250m

0

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

*This data is sourced from the Forestry Commission.*

## 13.4 Environmental Stewardship Schemes

Records within 250m

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.

*This data is sourced from Natural England.*



## 13.5 Countryside Stewardship Schemes

**Records within 250m****3**

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
27m NE	493511	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
168m W	644231	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
212m NW	644231	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

*This data is sourced from Natural England.*



## 14 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

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### 14.1 Priority Habitat Inventory

Records within 250m

6

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 71**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	4m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	21m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)





ID	Location	Main Habitat	Other habitats
5	151m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	155m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

*This data is sourced from Natural England.*

## 14.2 Habitat Networks

### Records within 250m

0

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

*This data is sourced from Natural England.*

## 14.3 Open Mosaic Habitat

### Records within 250m

0

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

*This data is sourced from Natural England.*

## 14.4 Limestone Pavement Orders

### Records within 250m

0

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

*This data is sourced from Natural England.*



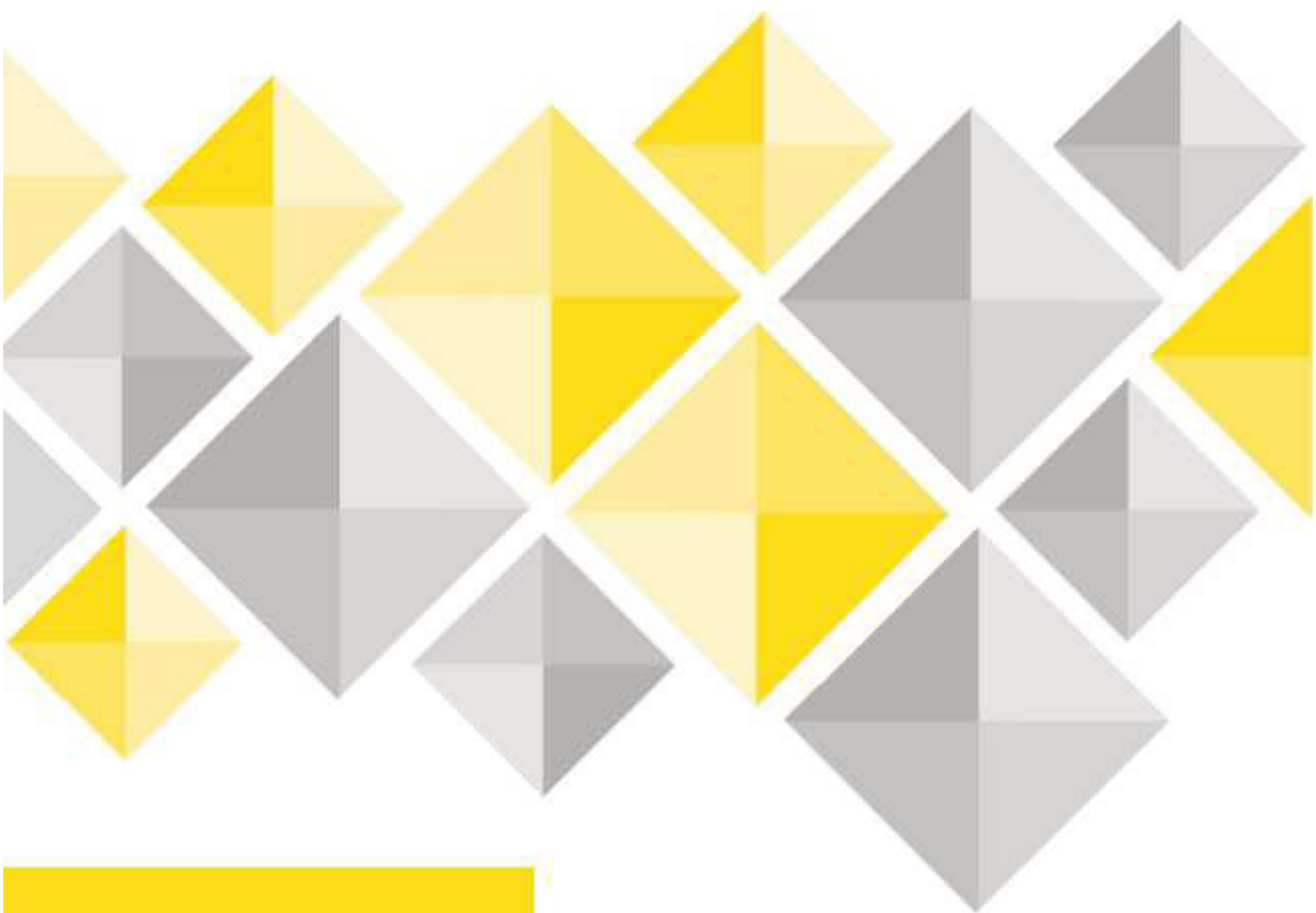
## Data providers

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

## Terms and conditions

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