



Technical Appendix 11: Preliminary Risk Assessment

Derril Water Solar Farm

01/03/2021



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Neo Environmental Ltd	
<p>Head Office - Glasgow: Wright Business Centre, 1 Lonmay Road, Glasgow. G33 4EL T 0141 773 6262 E: info@neo-environmental.co.uk</p>	
<p>Warrington Office: Cinnamon House, Crab Lane, Warrington, WA2 0XP. T: 01925 661 716 E: info@neo-environmental.co.uk</p>	<p>Rugby Office: Valiant Suites, Lumonics House, Valley Drive, Swift Valley, Rugby, Warwickshire, CV21 1TQ. T: 01788 297012 E: info@neo-environmental.co.uk</p>
<p>Ireland Office: Johnstown Business Centre, Johnstown House, Naas, Co. Kildare. T: 00 353 (0)45 844250 E: info@neo-environmental.ie</p>	<p>Northern Ireland Office: Unit 3, the Courtyard Business Park, Galgorm Castle, Ballymena, Northern Ireland, BT42 1HL. T: 0282 565 04 13 E: info@neo-environmental.co.uk</p>



Prepared For:

Renewable Energy Systems (RES) Ltd



Prepared By:

Catarina Lima

Ensafe Consultants
 Pacific Quay,
 Broadway,
 Manchester
 M50 2UE

	Name	Date
Edited By:	Catarina Lima	01/03/2021
Checked By:	Nicole Beckett	01/03/2021
	Name	Signature
Approved By	Paul Neary	

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INTRODUCTION

Background

- 11.1. Ensafe Consultants has been commissioned by Neo Environmental on behalf of Renewable Energy Systems (RES) Ltd (the “Applicant”) to undertake a Phase I Geo-Environmental Site Assessment for a proposed 42MW solar farm and associated infrastructure (the “Proposed Development”) on lands circa 1.2km southwest of the village of Pyworthy, Devon (the “Application Site”).
- 11.2. Please see **Figure 4 of Volume 2: Planning Application Drawings** for the layout of the Proposed Development.
- 11.3. Ensafe Consultants is the trading name of Challen Commercial Investigations Limited (03426833) incorporating the wholly owned subsidiary Ensafe Consultants (ROI) LTD (646123).

Development Description

- 11.4. The Proposed Development will consist of the construction of bi-facial solar photovoltaic (PV) panels mounted on metal frames, new access tracks, underground cabling, perimeter fencing with CCTV cameras and access gates, a temporary construction compound, substation and all ancillary grid infrastructure and associated works. The Proposed Development will result in the production of clean energy from a renewable energy resource (daylight) and will also involve additional landscaping including hedgerow planting and improved biodiversity management.

Objectives

- 11.5. The objectives of the desk-based study are to provide preliminary information to the local authority on environmental and ground conditions of the Application Site.

Sources of Information

- 11.6. Background information was sought from the following sources:
- Groundsure Insight Report (report reference GS-7534838)
 - Groundsure Historical Mapping (report reference GS-7534837)
 - Online planning records held by Torridge District Council
 - Environment Agency

- Radon: Guidance on Protective Measures for New Buildings (BRE Document BR 211, 2015) and HPA Indicative Radon Atlas for England and Wales/Scotland)
- British Geological Survey Online Map Database

Confidentiality

- 11.7. Ensafe Consultants has prepared this report solely for the use of the Applicant and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Ensafe Consultants. A charge may be levied against such approval.

Limitations

- 11.8. The full limitations of this report are presented in **Appendix 11A**.

SITE SETTING

Site Details

11.9. A Site Location Plan can be found in **Figure 4 of Volume 2: Planning Application Drawings**.

Table 11-1: Site Summary

Site Address	Lands circa 1.2km southwest of the village of Pyworthy, Devon, EX22 6LJ
National Grid Reference	229592 101983
Site Area (ha)	66.33

Site and Surrounding Area

11.10. The Application Site is located on lands circa 1.2km southwest of the village of Pyworthy and c. 1.8km southeast of Bridgerule in Torridge, Devon; the approximate centre point of which is Grid Reference E229936, N101914. Comprising 28 agricultural fields, the Application Site measures 66.33 hectares (ha) in total. See **Figure 1 of Volume 2: Planning Application Drawings** for details.

11.11. Land within the Application Site itself is gently undulating, ranging between 95 - 125m AOD and consists of fields typically of medium scale and generally well enclosed by a mixture of dense treelines, hedgerows and woodland shelter belt, limiting visibility for local settlements and receptors (See **Figure 3 of Volume 2: Planning Application Drawings** for field numbers).

11.12. The Application Site is in an area with existing electricity infrastructure, with a solar farm present c. 0.3km southeast and another c. 1.2km to the southwest. Additionally, the electrical Pyworthy Substation is located c. 75m from the northern parcel’s eastern boundary, adjacent to Field 16, where the Proposed Development will connect.

11.13. The local area is generally agricultural in nature, punctuated by individual properties and farmsteads; the nearest residential areas are Hopworthy and Yeomadon, located 0.7km northeast and southeast respectively. Recreational Routes include two Public Rights of Way (PRoW); one which passes the southeastern boundary of the Application Site (linking Crinacott Farm and Northmoor Farm, both outside the Application Site) and another which passes east of the adjacent substation.

11.14. While there are a number of drains and water courses throughout the Application Site, it is mostly contained within Flood Zone 1, an area described as having a “*Low probability*” of flooding. The exception to this is a small part of the Application Site within Flood Zone 2 and 3, towards the eastern boundary of Field 16. These areas have been avoided within the Proposed Development footprint.

- 11.15. The Application Site will be accessed from four existing entrance points on the unnamed minor road which splits the site into northern and southern parcels. From the western boundary of the site, the road runs in a southwestern direction for c. 0.5km before turning in a general east-northeast direction through the eastern section of the Application Site.

SITE HISTORY

On-Site Historical Development

11.16. A review of historical maps pertinent to the site is summarised below. A selection of historical maps is reproduced in **Appendix 11B**.

- The site has been agricultural land since earliest records in 1883.

Off-Site Historical Development

11.17. A review of potentially contaminated land uses identified on historical ordnance Survey maps within a 250m radius of the site:

- Electricity substations at 72m and 117m NE;
- Ponds are located at 50m S of the centre of the site boundary – there is a potential for infilled land; and
- Quarry is located at 250m SW, marked in historical mapping until 2010.

Planning History

11.18. Planning records held by the Local Planning Authority, Torridge District Council, did not yield any environmentally pertinent information with regards to historical development of the site.

Environmental Settings

Geology & Hydrogeology

- 11.19. A review of the online British Geological Survey (BGS) mapping for the site indicates that the site is underlain by the following geological sequence:

Table 11-2: Published Geology Underlying Site

Geological Unit	Classification	Description	Aquifer Classification	Permeability
Superficial deposits (only present within north east boundary)	River terrace deposits	Permeable layers capable of supporting water supplies at a local rather than strategic scale	Secondary A	Very high to high
Bedrock – Bude formation	Sandstone	Permeable layers capable of supporting water supplies at a local rather than strategic scale	Secondary A	Moderate
Bedrock – Bude formation	Mudstone and Siltstone			Moderate

- 11.20. There are no available borehole records within close vicinity of the Application Site. The nearest available borehole record is at 1.5km.
- 11.21. Abstraction points are present within the vicinity of the site boundary – at 77m S and 79m N. Records indicate these points are mostly inactive and sourced for fresh groundwater for general farming and domestic use.

Hydrology and Flood and Risk

- 11.22. The nearest relevant surface water feature is Derril Water is situated at 350m east. River Tamar is located at 3km. Unnamed tributaries of both these features are present within Application Site boundary.
- 11.23. The Groundsure report indicates the east of the Application Site is at medium risk from river and coastal flooding, with localised areas of high risk. Furthermore, the eastern fringes of the site lies partially in an area of Flood Zone 3 related to the neighbouring Derril Water. The Application Site is at negligible risk from groundwater flooding.

Radon Risk Potential

11.24. The site is mainly situated within an area where less than 1% of properties are Above Action Level, however an area of less than 1% and between 1% and 3% affected properties within the east and northern boundaries and therefore no radon protection measures are required.

Industrial Land Uses

11.25. The site is situated within an area of agricultural fields. A limited number of industrial land uses are noted within the site. The following are recorded within 250m:

- Electricity substation at 117m NE; and
- Numerous pylons within 40m to 250m.

Sensitive Land Uses

11.26. The site is within a SSSI (Site of Special Scientific Interest) Impact Risk Zone.

Agricultural Land Classification

11.27. According to online sources, the Application Site has received the following classification of Agricultural Land Classification:

- The majority of the site is classified as grade 4 – poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yield.
- Some areas of grade 3 – good to moderate quality agricultural land. Land with moderate limitations which effect the choice of crops, timing and type of cultivation, harvesting or the level of yield.

11.28. However, an ALC survey undertaken in December 2020 confirmed the majority of the Application Site is grade 3b (42.7%), while 39.8% was grade 3a and 12.4% was grade 4.

11.29. See **Technical Appendix 9: ALC of Volume 3** for further information.

Landfill Sites and Waste Treatment Sites

11.30. The Groundsure report has not identified any landfill within 1.5km of the site, or any historic waste sites within 500m of the site.

11.31. There is a record for a commercial & industrial waste transfer station at 7m south of the site boundary (Trelana Farm).

11.32. A waste exemption is also in operation associated with Trelana Farm for 7no. different recorded uses:

- Use of waste in construction;
- Use of waste for a specified purpose;
- Spreading waste on agricultural land to confer benefit;
- Use of mulch;
- Incorporation of ash into soil;
- Screening and blending of waste; and
- Burning waste in the open.

Regulatory Databases

11.33. No records have been encountered within 250m radius of the site.

COAL AND MINING

- 11.34. The Application Site is not in an area affected by coal mining.
- 11.35. Surface ground workings are recorded within the site boundary and are associated with mineral vein mining. The site area is described as being subject to sporadic underground mining of restricted extent. However, potential for difficult ground conditions is thought to be unlikely and not needed to be considered further.
- 11.36. Natural cavities are recorded at 238m W associated historic mining within Bradford Manor, the commodity associated with it is Sandstone.

CONSULTATIONS

Contaminated Land Officer

- 11.37. A request for information was directed to the Environmental Health Officer at Torridge District Council. At the time of writing, no response has been received.

CONCEPTUAL SITE MODEL (CSM)

Initial CSM

11.38. In accordance with LCRM – Land Contamination Risk Management (Environment Agency, Oct 2020) and BS 10175:2011+A2:2017 (Investigation of Potentially Contaminated Land. Code of Practice), Ensafe Consultants has developed a preliminary Conceptual Site Model (CSM) to identify potential contamination sources, migration pathways, and significant receptors within the study area.

Contaminant sources

11.39. Potential sources of contamination have been identified as follows:

- Potential use of pesticides and other products

11.40. The following Off Site Potential Sources have been identified:

- Electricity substation at 72m and 117m NE
- Ponds located at 50m S of the centre of the site boundary; and
- A quarry is located at 250m SW.

Potential receptors and pathways

11.41. Controlled waters, and future site users have been identified as receptors, however no viable pathways connecting the potential sources and receptors have been identified at the site.

Risk Assessment

11.42. CIRIA 552: Contaminated Land Risk Assessment 'A Guide to Good Practice' provides guidance on risk assessment taking into account factors such as severity of the potential harm that may arise from a successful pollutant linkage, potential magnitude of the hazards, and the sensitivity of the target receptor. A site specific CSM has therefore been created using these characteristics.

11.43. No unacceptable risk to receptors has been identified at the Application Site, based on the proposed end use of the site.

CONCLUSIONS & RECOMMENDATIONS

Conclusions

11.44. No unacceptable risks have been identified.

Recommendations

11.45. No further works are recommended with regards to environmental assessment.

APPENDICES

Appendix 11A – Limitations and Glossary

Appendix 11B – Historical Maps

Appendix 11C – Groundsure Report



Appendix 11A – Limitations and Glossary



APPENDIX 11A – LIMITATIONS AND GLOSSARY

Limitations

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between Ensaf Consultants and the Client as indicated in Section 1.0.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
6. In addition to the above Ensaf Consultants note that when investigating, or developing, potentially contaminated land it is important to recognise that sub-surface conditions may vary spatially and also with time. The absence of certain ground, ground gas, and contamination or groundwater conditions at the positions tested is not a guarantee that such conditions do not exist anywhere across the site. Due to the presence of existing buildings and structures access could not be obtained to all areas. Additional contamination may be identified following the removal of the buildings or hard standing.
7. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
8. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.
9. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
10. This report presents an interpretation of the geotechnical information established by excavation, observation and testing. Whilst every effort is made in interpretative reporting to assess the soil conditions over the Site it should be noted that natural strata vary from point to point and that manmade deposits are subject to an even greater diversity. Groundwater conditions are dependent on seasonal and other factors. Consequently, there may be conditions present not revealed by this investigation.
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12. Rather, this investigation has been undertaken to provide a preliminary characterisation of the existing sub-surface geotechnical characteristics and make up and the findings of this study are our best interpretation of the data

collected, within the scope of work and agreed budget. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

13. This investigation has been undertaken to reasonably characterise existing sub-surface conditions and the findings of this study are our best interpretation of the data collected, within the scope of work and agreed budget. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

Glossary

AST	Above Ground Storage Tank
BGS	British Geological Survey
BSI	British Standards Institute
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CIEH	Chartered Institute of Environmental Health
CIRIA	Construction Industry Research Association
CLEA	Contaminated Land Exposure Assessment
CSM	Conceptual Site Model
DNAPL	Dense Non-Aqueous Phase Liquid (chlorinated solvents, PCB)
DWS	Drinking Water Standard
EA	Environment Agency
EQS	Environmental Quality Standard
GAC	General Assessment Criteria
GL	Ground Level
GSV	Gas Screening Value
HCV	Health Criteria Value
ICSM	Initial Conceptual Site Model
LNAPL	Light Non-Aqueous Phase Liquid (petrol, diesel, kerosene)
ND	Not Detected
LMRL	Lower Method Reporting Limit
NR	Not Recorded
PAH	Poly Aromatic Hydrocarbon
PCB	Poly-Chlorinated Biphenyl
PID	Photo Ionisation Detector
QA	Quality Assurance
SGV	Soil Guideline Value
SPH	Separate Phase Hydrocarbon
Sp.TPH (CWG)	Total Petroleum Hydrocarbon (Criteria Working Group)
SPT	Standard Penetration Test
SVOC	Semi Volatile Organic Compound
UST	Underground Storage Tank
VCCs	Vibro Concrete Columns
VOC	Volatile Organic Compound
WTE	Water Table Elevation



Appendix 11B – Historical Maps



Site Details:

LAND AT TRELANA FARM,
NEAR PYWORTHY, EX22 6LJ

Client Ref: 1CO109905-008931
Report Ref: GS-7534837
Grid Ref: 229686, 101840

Map Name: County Series

Map date: 1883

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

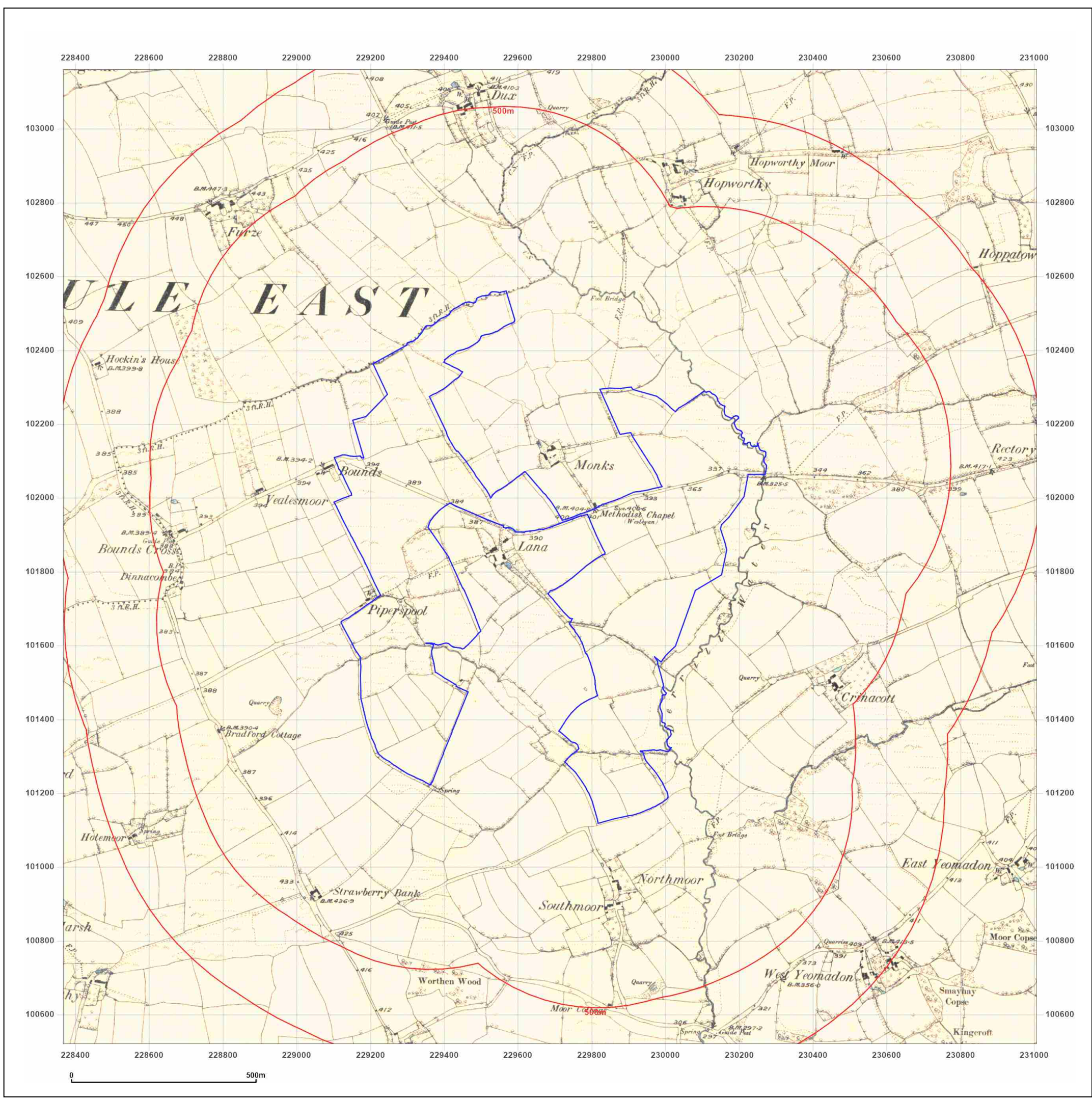


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Site Details:

LAND AT TRELANA FARM,
NEAR PYWORTHY, EX22 6LJ

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Report Ref: GS-7534837
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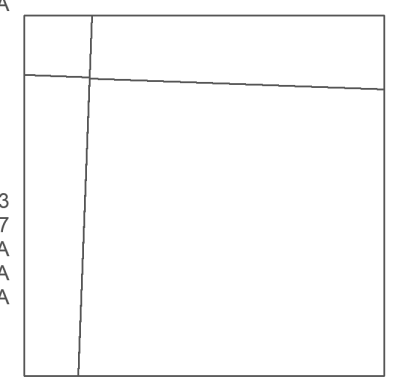
Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1883
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1883
Revised 1907
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Copyright N/A
Levelled N/A

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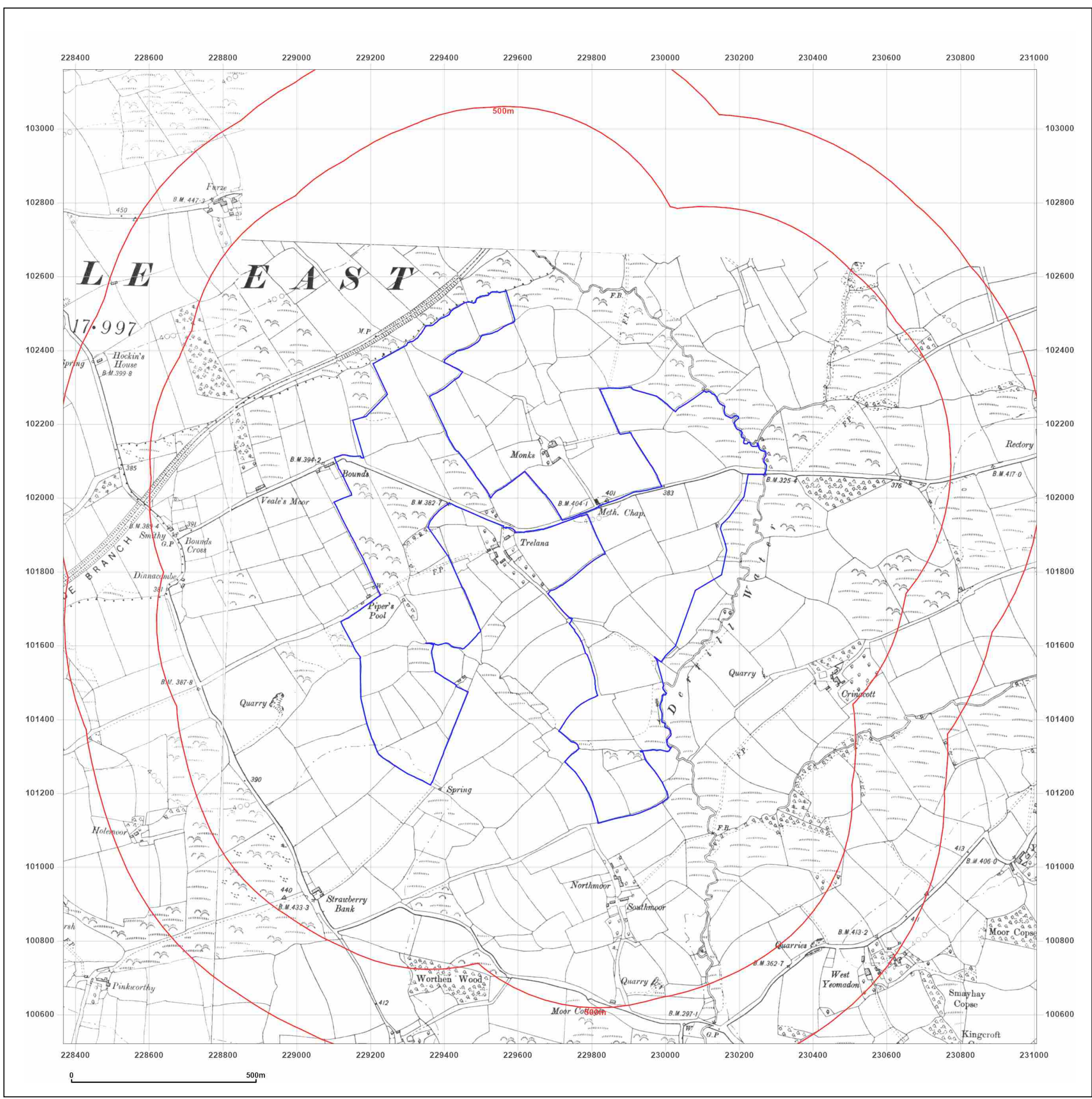


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Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1883
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

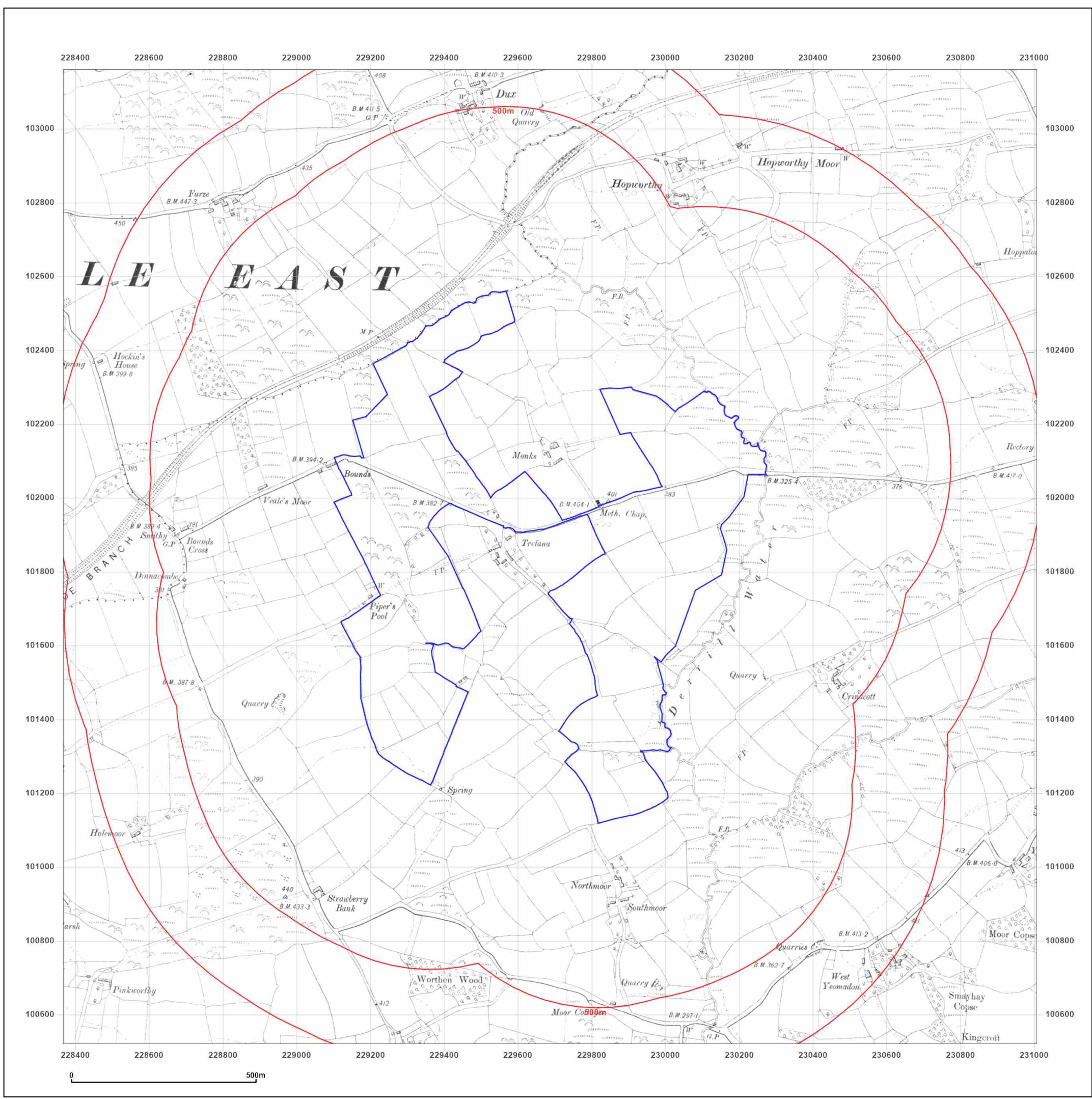


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Site Details:

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NEAR PYWORTHY, EX22 6LJ

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Report Ref: GS-7534837
Grid Ref: 229686, 101840

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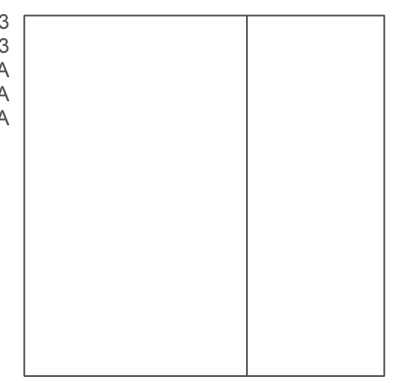
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Revised 1963
Edition N/A
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Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

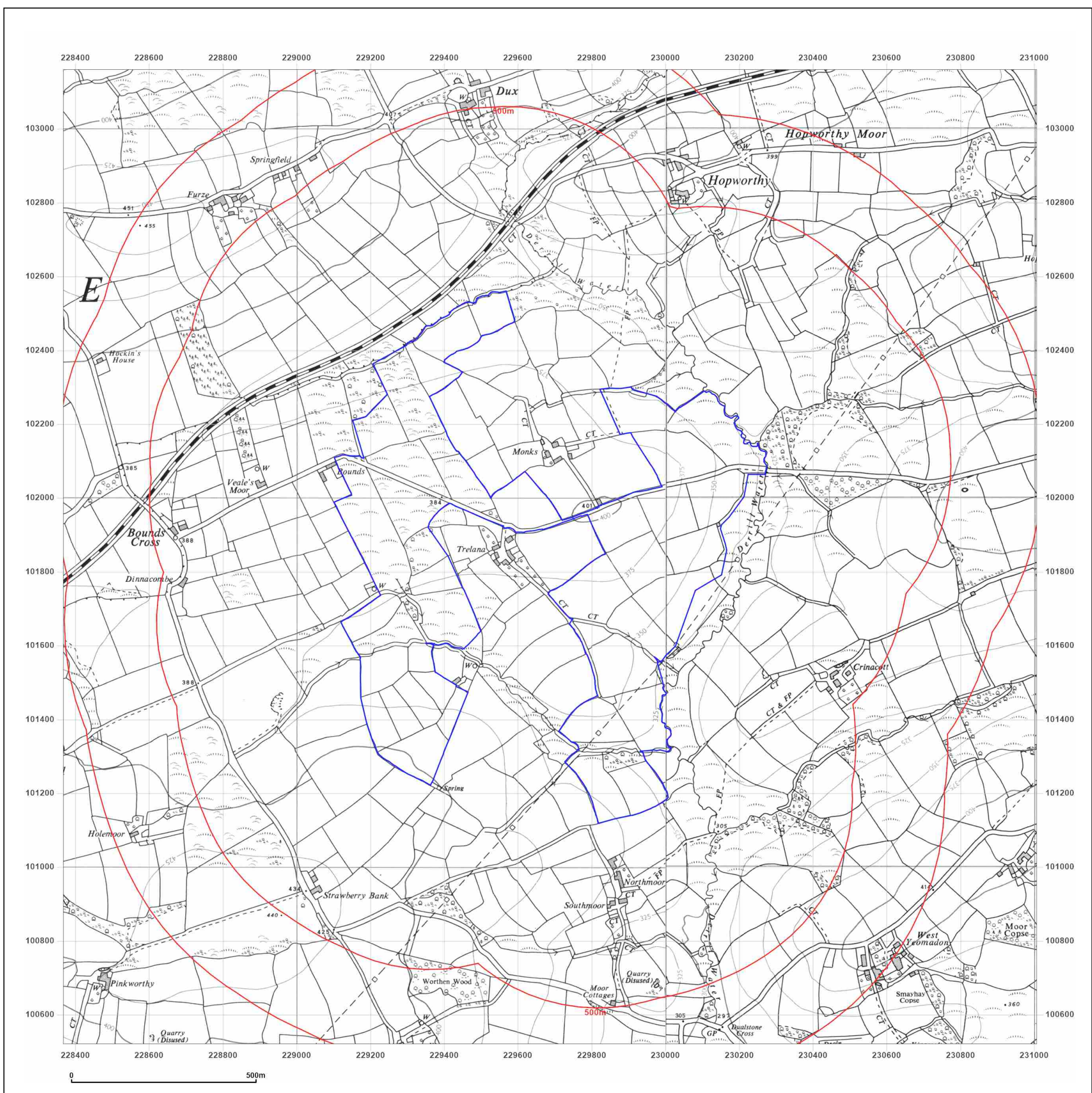


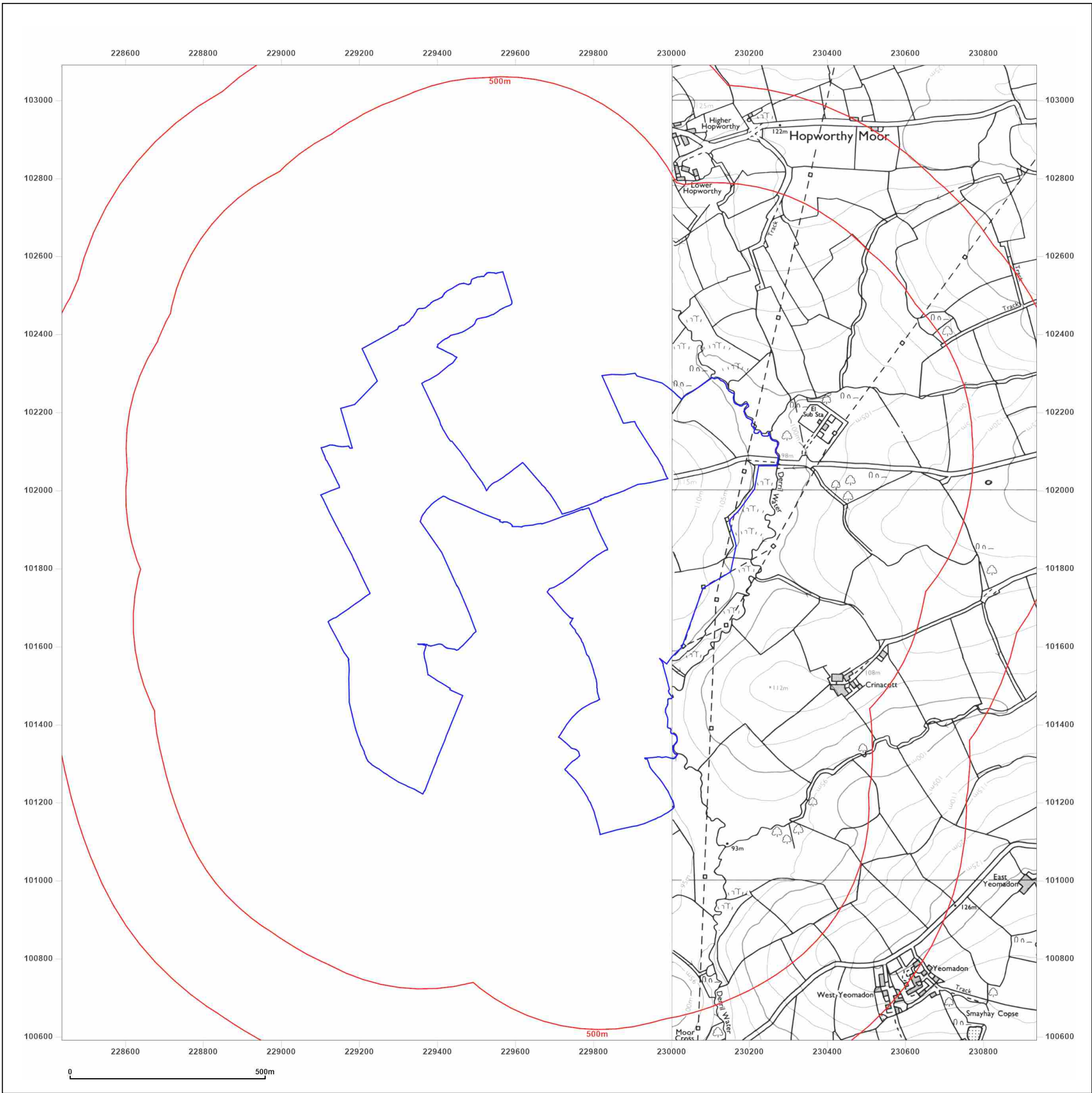
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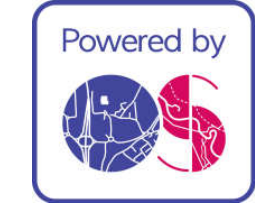
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Report Ref: GS-7534837
Grid Ref: 229686, 101840

Map Name: National Grid
Map date: 1991
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1983
 Revised 1991
 Edition N/A
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 Levelled N/A



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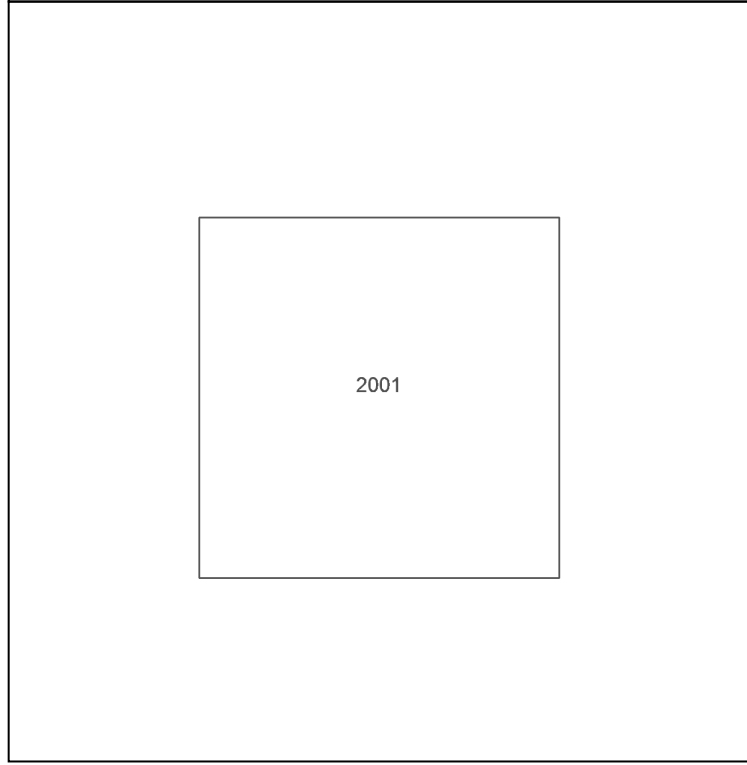
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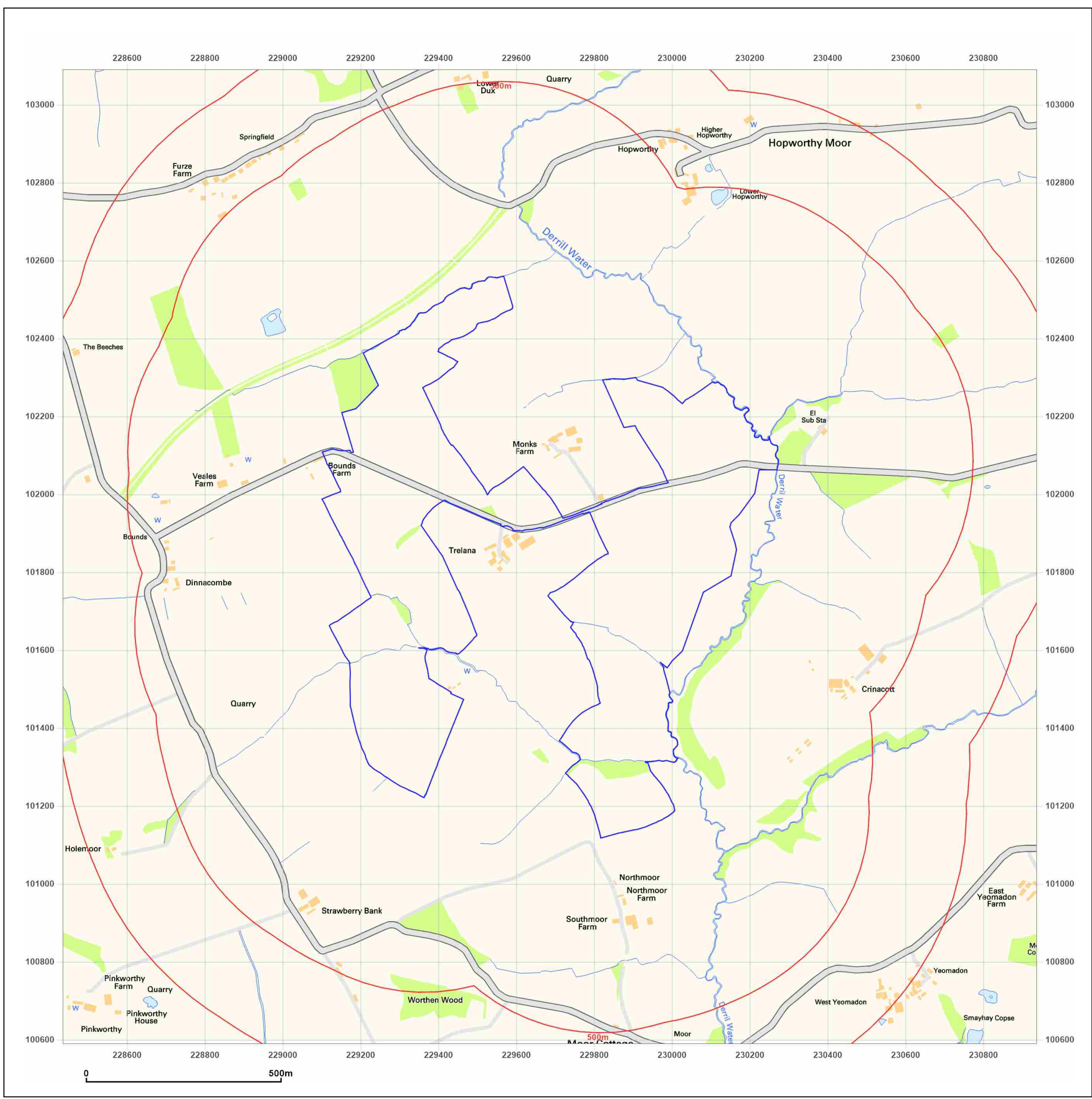


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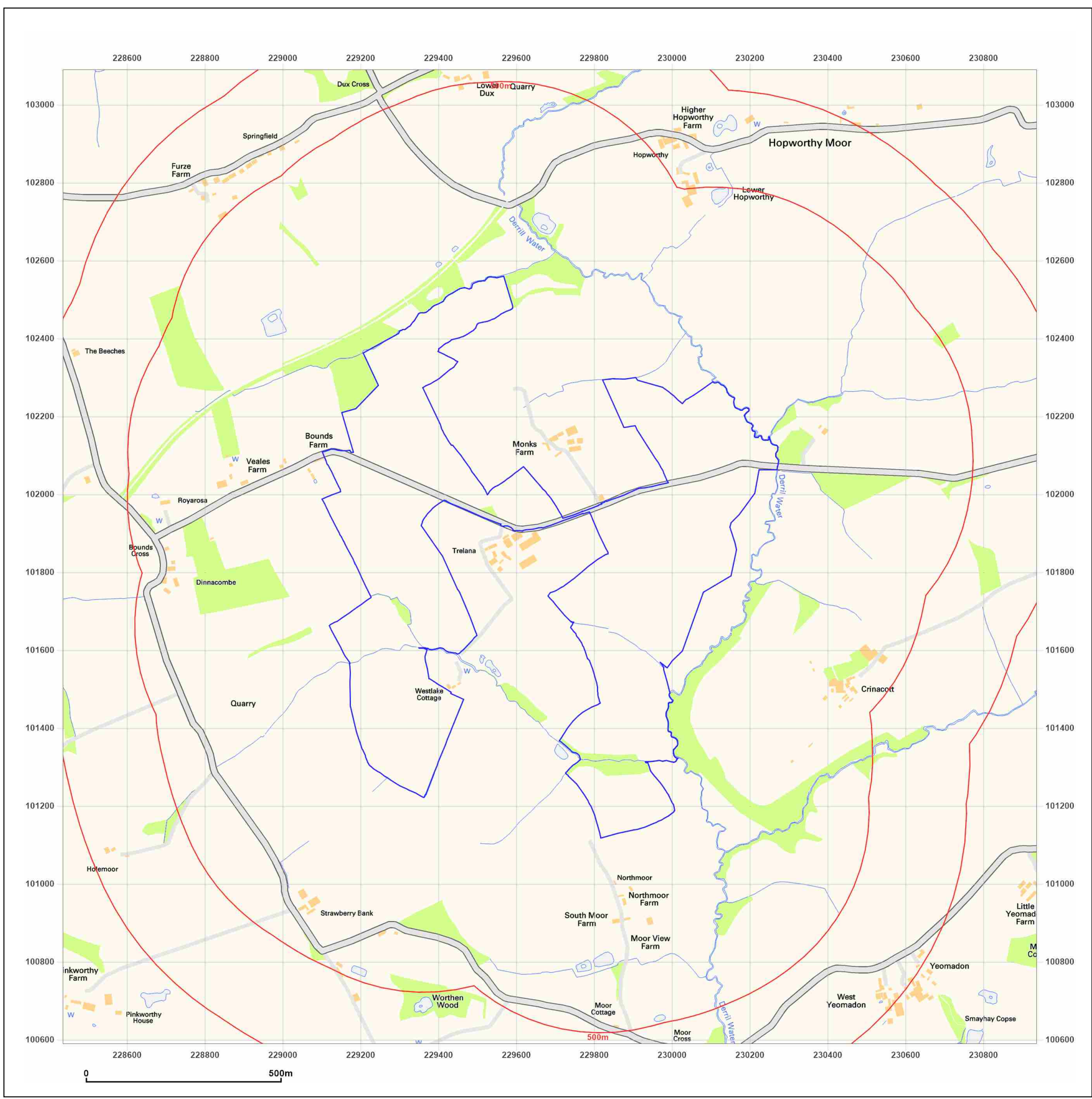


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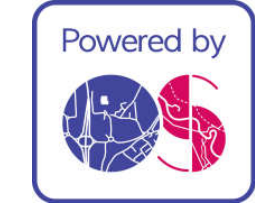
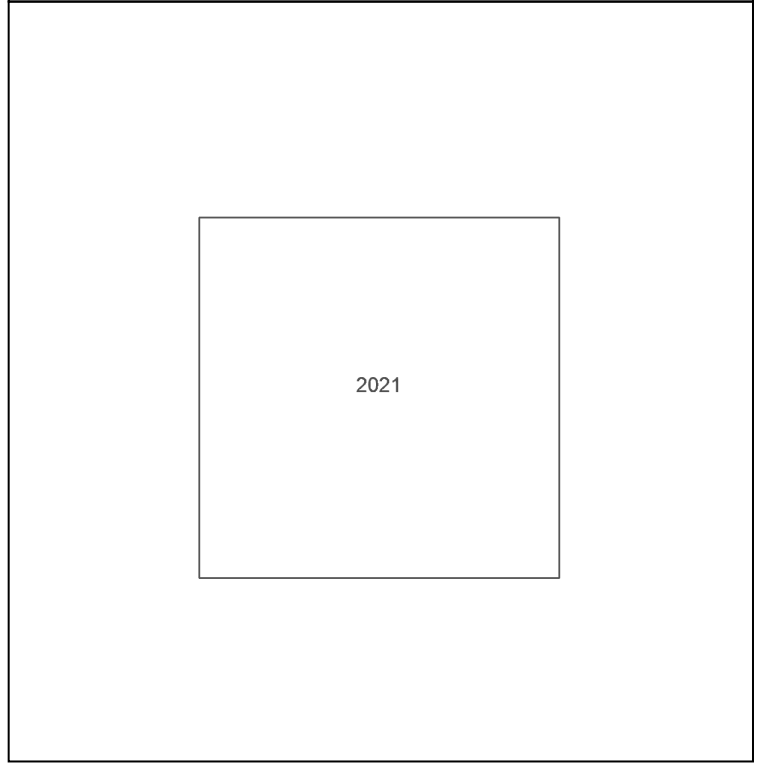
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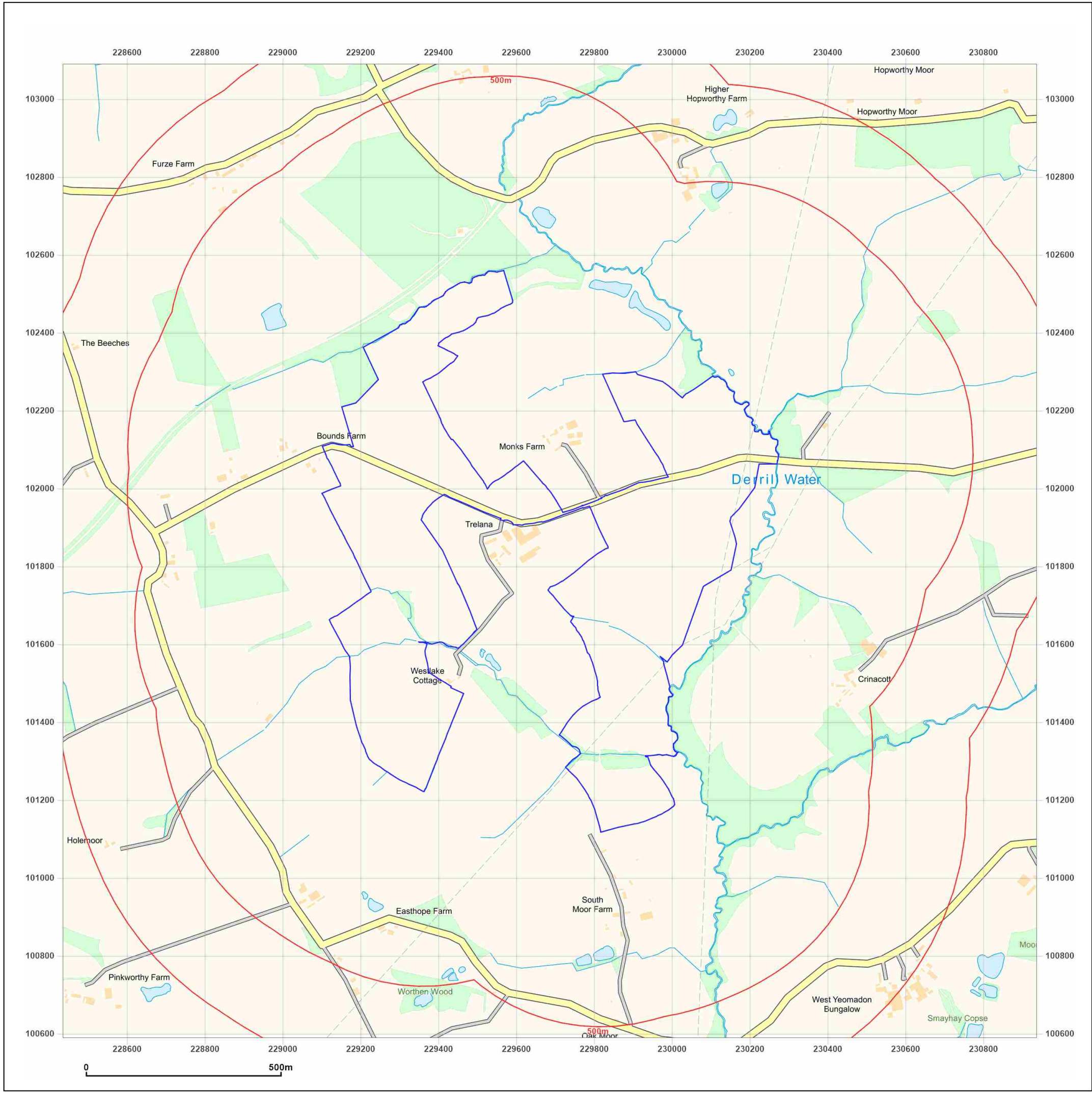


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Appendix 11C – Groundsure Report



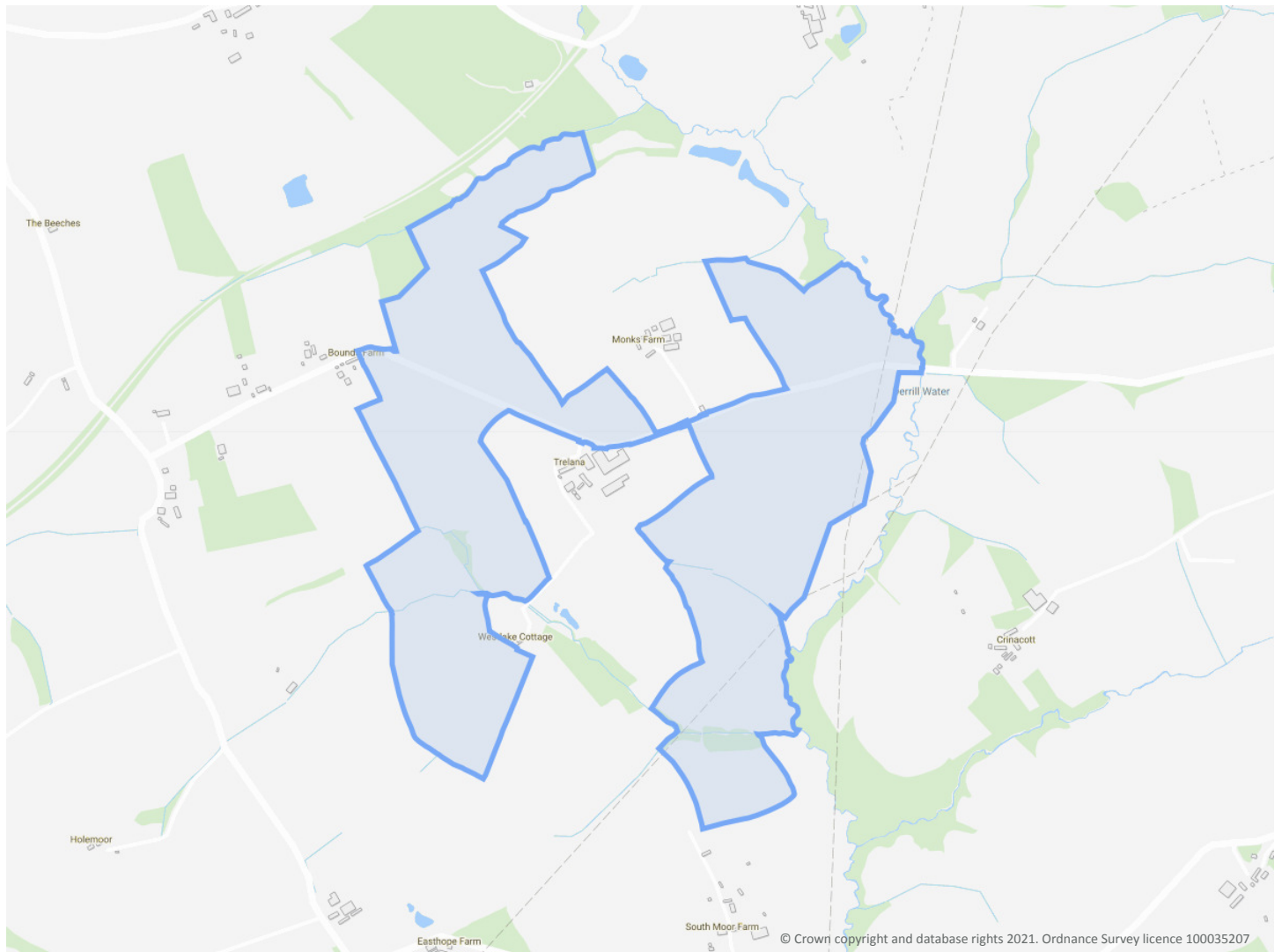
LAND AT TRELANA FARM, NEAR PYWORTHY, EX22 6LJ

Order Details

Date: 01/02/2021
Your ref: 1CO109905-008931
Our Ref: GS-7534838
Client: Challen Commercial Investigations Ltd t/a Ensaf
Consultants

Site Details

Location: 229592 101983
Area: 65.59 ha
Authority: [Torridge District Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	0	0	6	8	-
14	1.2	<u>Historical tanks</u>	0	1	0	0	-
15	1.3	<u>Historical energy features</u>	0	0	1	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	0	-
16	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
17	2.1	<u>Historical industrial land uses</u>	0	0	8	11	-
18	2.2	<u>Historical tanks</u>	0	1	0	0	-
19	2.3	<u>Historical energy features</u>	0	0	1	0	-
19	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	<u>Licensed waste sites</u>	0	6	0	0	-
23	3.7	<u>Waste exemptions</u>	0	0	24	18	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	<u>Recent industrial land uses</u>	4	3	14	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-



30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
32	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	1	-
32	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
32	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
33	4.17	List 2 Dangerous Substances	0	0	0	0	-
33	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
33	4.19	Pollution inventory substances	0	0	0	0	-
33	4.20	Pollution inventory waste transfers	0	0	0	0	-
34	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
35	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
37	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
39	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
41	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	5.5	Groundwater vulnerability- local information	None (within 0m)				
42	5.6	<u>Groundwater abstractions</u>	0	0	4	0	10
45	5.7	Surface water abstractions	0	0	0	0	0
46	5.8	<u>Potable abstractions</u>	0	0	0	0	1
46	5.9	Source Protection Zones	0	0	0	0	-
46	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
47	6.1	<u>Water Network (OS MasterMap)</u>	13	17	18	-	-



51	6.2	<u>Surface water features</u>	1	7	13	-	-
52	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
52	6.4	<u>WFD Surface water bodies</u>	0	1	0	-	-
52	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
55	7.2	Historical Flood Events	0	0	0	-	-
55	7.3	Flood Defences	0	0	0	-	-
55	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
57	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
58	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
60	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
61	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
61	10.4	Special Protection Areas (SPA)	0	0	0	0	0
62	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
62	10.7	Designated Ancient Woodland	0	0	0	0	0
62	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63	10.11	Green Belt	0	0	0	0	0
63	10.12	Proposed Ramsar sites	0	0	0	0	0



63	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
64	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
65	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
66	10.18	SSSI Units	0	0	0	0	0

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
67	11.1	World Heritage Sites	0	0	0	-	-
67	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
67	11.3	National Parks	0	0	0	-	-
67	11.4	Listed Buildings	0	0	0	-	-
68	11.5	Conservation Areas	0	0	0	-	-
68	11.6	Scheduled Ancient Monuments	0	0	0	-	-
68	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
70	12.2	Open Access Land	0	0	0	-	-
70	12.3	Tree Felling Licences	0	0	0	-	-
70	12.4	<u>Environmental Stewardship Schemes</u>	0	1	2	-	-
71	12.5	<u>Countryside Stewardship Schemes</u>	2	0	5	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
72	13.1	<u>Priority Habitat Inventory</u>	27	13	17	-	-
75	13.2	<u>Habitat Networks</u>	6	2	1	-	-
76	13.3	Open Mosaic Habitat	0	0	0	-	-
76	13.4	Limestone Pavement Orders	0	0	0	-	-

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
77	14.1	<u>10k Availability</u>	Identified (within 500m)				
78	14.2	Artificial and made ground (10k)	0	0	0	0	-
79	14.3	Superficial geology (10k)	0	0	0	0	-

79	14.4	Landslip (10k)	0	0	0	0	-
80	14.5	Bedrock geology (10k)	0	0	0	0	-
80	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
81	15.1	<u>50k Availability</u>	Identified (within 500m)				
82	15.2	Artificial and made ground (50k)	0	0	0	0	-
82	15.3	Artificial ground permeability (50k)	0	0	-	-	-
83	15.4	<u>Superficial geology (50k)</u>	2	3	2	2	-
84	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
84	15.6	Landslip (50k)	0	0	0	0	-
85	15.7	Landslip permeability (50k)	None (within 50m)				
86	15.8	<u>Bedrock geology (50k)</u>	24	1	20	33	-
89	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
90	15.10	<u>Bedrock faults and other linear features (50k)</u>	8	0	11	15	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	<u>BGS Boreholes</u>	0	0	1	-	-
Page	Section	Natural ground subsidence					
94	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
96	17.2	<u>Running sands</u>	Low (within 50m)				
98	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
100	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
102	17.5	<u>Landslides</u>	Low (within 50m)				
104	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
106	18.1	Natural cavities	0	0	0	0	-
107	18.2	<u>BritPits</u>	0	0	1	2	-
107	18.3	<u>Surface ground workings</u>	2	1	7	-	-
108	18.4	Underground workings	0	0	0	0	0
108	18.5	Historical Mineral Planning Areas	0	0	0	0	-

108	18.6	<u>Non-coal mining</u>	2	0	0	0	0
109	18.7	Mining cavities	0	0	0	0	0
109	18.8	JPB mining areas	None (within 0m)				
109	18.9	Coal mining	None (within 0m)				
109	18.10	Brine areas	None (within 0m)				
110	18.11	Gypsum areas	None (within 0m)				
110	18.12	Tin mining	None (within 0m)				
110	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
111	19.1	<u>Radon</u>	Between 3% and 5% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
113	20.1	<u>BGS Estimated Background Soil Chemistry</u>	73	19	-	-	-
118	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
118	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
119	21.1	Underground railways (London)	0	0	0	-	-
119	21.2	Underground railways (Non-London)	0	0	0	-	-
120	21.3	Railway tunnels	0	0	0	-	-
120	21.4	Historical railway and tunnel features	0	0	0	-	-
120	21.5	Royal Mail tunnels	0	0	0	-	-
120	21.6	<u>Historical railways</u>	0	1	1	-	-
121	21.7	Railways	0	0	0	-	-
121	21.8	Crossrail 1	0	0	0	0	-
121	21.9	Crossrail 2	0	0	0	0	-
121	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2018

Site Area: 65.59ha



Recent site history - 2015 aerial photograph



Capture Date: 08/04/2015

Site Area: 65.59ha



Recent site history - 2013 aerial photograph



Capture Date: 08/06/2013

Site Area: 65.59ha



Recent site history - 2006 aerial photograph



Capture Date: 01/06/2006

Site Area: 65.59ha



Recent site history - 1999 aerial photograph

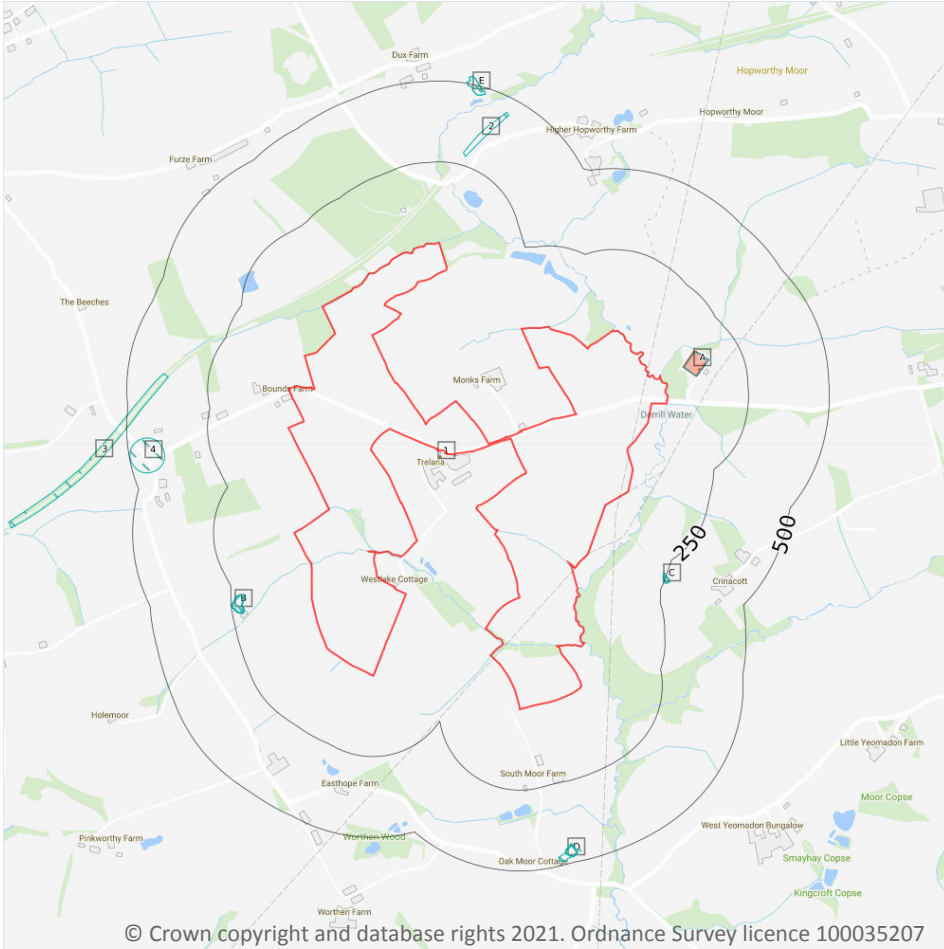


Capture Date: 24/07/1999

Site Area: 65.59ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m **14**

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

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

ID	Location	Land use	Dates present	Group ID
A	74m NE	Electric Substation	1991	326399

ID	Location	Land use	Dates present	Group ID
B	207m W	Unspecified Quarry	1907	377021
B	208m W	Unspecified Quarry	1963	353803
B	211m W	Unspecified Quarry	1883 - 1907	353990
C	241m E	Unspecified Quarry	1907	340471
C	242m E	Unspecified Quarry	1883 - 1907	361415
2	279m N	Cuttings	1907	336723
3	374m W	Cuttings	1907	363257
4	391m W	Smithy	1907	342060
D	442m S	Unspecified Quarry	1883	370229
D	442m S	Unspecified Quarry	1907	344025
D	447m S	Unspecified Disused Quarry	1963	319217
E	472m N	Unspecified Quarry	1883	324364
E	472m N	Unspecified Old Quarry	1907	329454

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

1

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

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

ID	Location	Land use	Dates present	Group ID
1	16m S	Unspecified Tank	1997	37116

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

1

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
A	72m NE	Electricity Substation	1988	18920

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 ungrouped 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 ungrouped 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

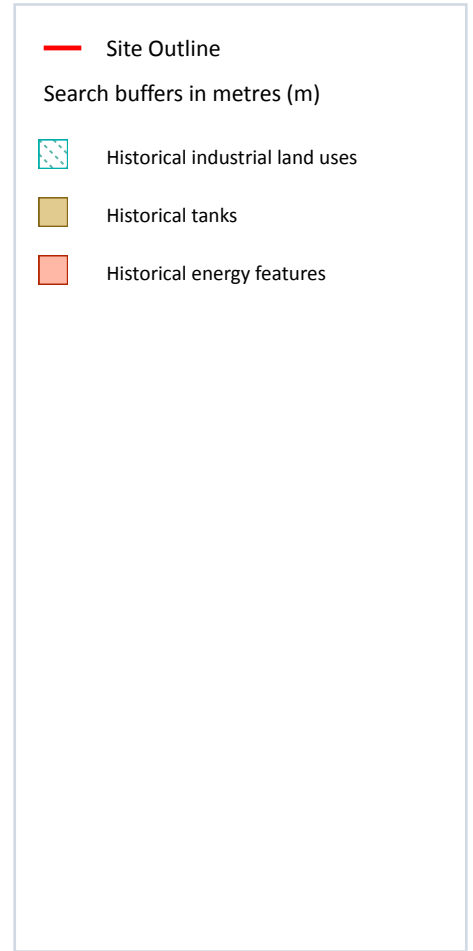
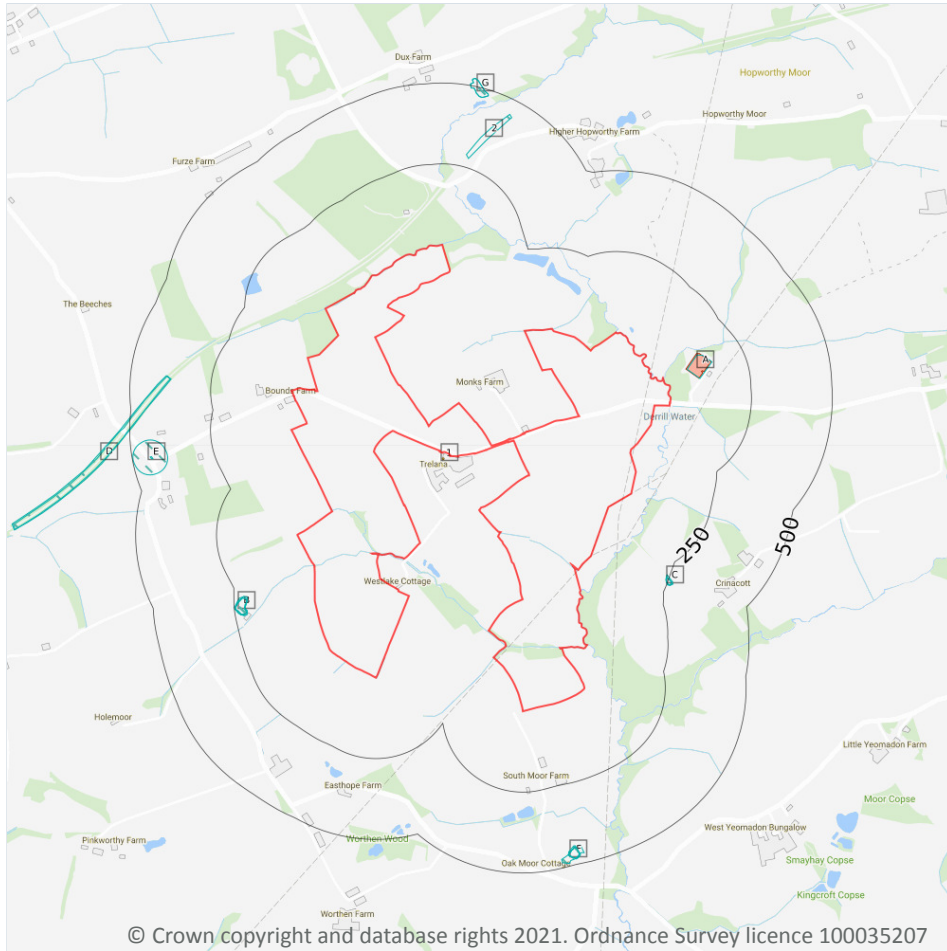
0

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



2.1 Historical industrial land uses

Records within 500m

19

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

Features are displayed on the Past land use - un-grouped map on **page 17**

ID	Location	Land Use	Date	Group ID
A	74m NE	Electric Substation	1991	326399
B	207m W	Unspecified Quarry	1907	377021
B	208m W	Unspecified Quarry	1963	353803

ID	Location	Land Use	Date	Group ID
B	211m W	Unspecified Quarry	1883	353990
B	211m W	Unspecified Quarry	1907	353990
C	241m E	Unspecified Quarry	1907	340471
C	242m E	Unspecified Quarry	1883	361415
C	242m E	Unspecified Quarry	1907	361415
2	279m N	Cuttings	1907	336723
D	374m W	Cuttings	1907	363257
D	377m W	Cuttings	1907	363257
E	391m W	Smithy	1907	342060
E	437m W	Smithy	1907	342060
F	442m S	Unspecified Quarry	1883	370229
F	442m S	Unspecified Quarry	1907	344025
F	447m S	Unspecified Disused Quarry	1963	319217
F	448m S	Unspecified Quarry	1907	344025
G	472m N	Unspecified Quarry	1883	324364
G	472m N	Unspecified Old Quarry	1907	329454

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

1

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

Features are displayed on the Past land use - un-grouped map on **page 17**

ID	Location	Land Use	Date	Group ID
1	16m S	Unspecified Tank	1997	37116

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m 1

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

Features are displayed on the Past land use - un-grouped map on **page 17**

ID	Location	Land Use	Date	Group ID
A	72m NE	Electricity Substation	1988	18920

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

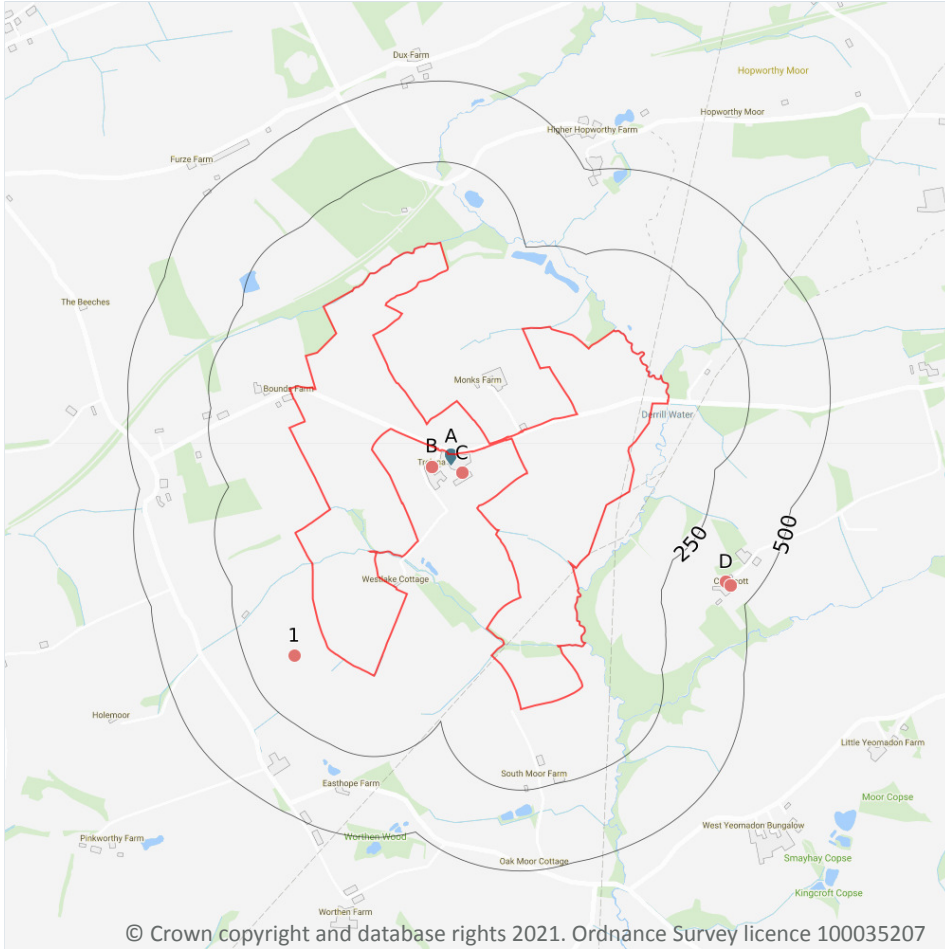
Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

6

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

Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Details		
A	7m S	Site Name: Trelana Farm Site Address: Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: Summerleaze Ltd, Blackamoor Lane, Maidenhead, Berkshire, SL6 8RT	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SUM011 EPR reference: - Operator: Summerleaze Ltd Waste Management licence No: 20063 Annual Tonnage: 4999	Issue Date: 10/04/2003 Effective Date: 16/08/2006 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

ID	Location	Details		
A	7m S	Site Name: Trelana Farm Site Address: Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: Holsworthy Biogas Ltd, Chilsworthy, Holsworthy, Devon, EX22 7HH	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000027 EPR reference: - Operator: Holsworthy Biogas Ltd Waste Management licence No: 20063 Annual Tonnage: 0	Issue Date: 10/04/2003 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	7m S	Site Name: Trelana Farm Site Address: Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: Holsworthy Biogas Ltd, Chilsworthy, Holsworthy, Devon, EX22 7HH	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOL014 EPR reference: - Operator: Holsworthy Biogas Ltd Waste Management licence No: 20063 Annual Tonnage: 4999	Issue Date: 10/04/2003 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	7m S	Site Name: Trelana Farm Site Address: Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: Holsworthy Biogas Plant, Chilsworthy, Holsworthy, Devon, EX22 7HH	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AND057 EPR reference: - Operator: Andigestion Limited Waste Management licence No: 20063 Annual Tonnage: 4999	Issue Date: 10/04/2003 Effective Date: 15/08/2006 Modified:: 13/07/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	7m S	Site Name: Trelana Farm Site Address: Trelane Farm, Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: Biogas Plant, Chilsworthy, Holsworthy, Devon, EX22 7HH	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AND057 EPR reference: - Operator: Andigestion Limited Waste Management licence No: 20063 Annual Tonnage: 0	Issue Date: 10/04/2003 Effective Date: 15/08/2006 Modified:: 13/07/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



ID	Location	Details		
A	7m S	Site Name: Trelana Farm Site Address: Trelana Farm, Pyworthy, Holsworthy, Devon, EX22 6LJ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AND057 EPR reference: EA/EPR/BP3592SQ/S003 Operator: Andigestion Ltd Waste Management licence No: 20063 Annual Tonnage: 0	Issue Date: 10/04/2003 Effective Date: 15/08/2006 Modified:: 13/07/2007 Surrendered Date: Aug 18 2009 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	42
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	56m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/RE5859D D/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Using waste exemption	On a Farm	Use of waste in construction
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Using waste exemption	On a Farm	Use of waste for a specified purpose
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Using waste exemption	On a Farm	Use of mulch



ID	Location	Site	Reference	Category	Sub-Category	Description
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Using waste exemption	On a Farm	Incorporation of ash into soil
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Treating waste exemption	On a Farm	Screening and blending of waste
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX213019	Disposing of waste exemption	On a Farm	Burning waste in the open
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX114742	Using waste exemption	On a farm	Use of waste for a specified purpose
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Disposing of waste exemption	On a farm	Burning waste in the open
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Treating waste exemption	On a farm	Screening and blending of waste
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Using waste exemption	On a farm	Use of waste in construction
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Using waste exemption	On a farm	Use of mulch
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Using waste exemption	On a farm	Incorporation of ash into soil
B	58m S	TRELANA FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX058709	Using waste exemption	On a farm	Use of waste for a specified purpose
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Treating waste exemption	Agricultural Waste Only	Screening and blending of waste



ID	Location	Site	Reference	Category	Sub-Category	Description
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Using waste exemption	Agricultural Waste Only	Use of mulch
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
C	61m S	Trelana Farm HOLSWORTHY Devon EX22 6LJ	EPR/CF0339BC /A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
1	107m W	Burridge Woods	EPR/QF0933E U/A001	Disposing of waste exemption	Non- Agricultural Waste Only	Burning waste in the open
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of mulch
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading of plant matter to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
D	409m SE	Crinacott Farm HOLSWORTHY Devon EX22 6LJ	EPR/VH0273V Y/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
D	427m SE	CRINACOTT FARM HOUSE, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX196335	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
D	427m SE	CRINACOTT FARM HOUSE, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX196335	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	427m SE	CRINACOTT FARM HOUSE, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX196335	Disposing of waste exemption	On a Farm	Burning waste in the open
D	427m SE	CRINACOTT FARM HOUSE, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX196335	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
D	427m SE	CRINACOTT FARM HOUSE, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX196335	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
D	427m SE	CRINACOTT FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX037165	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	427m SE	CRINACOTT FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX037165	Disposing of waste exemption	On a farm	Burning waste in the open
D	427m SE	CRINACOTT FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX037165	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

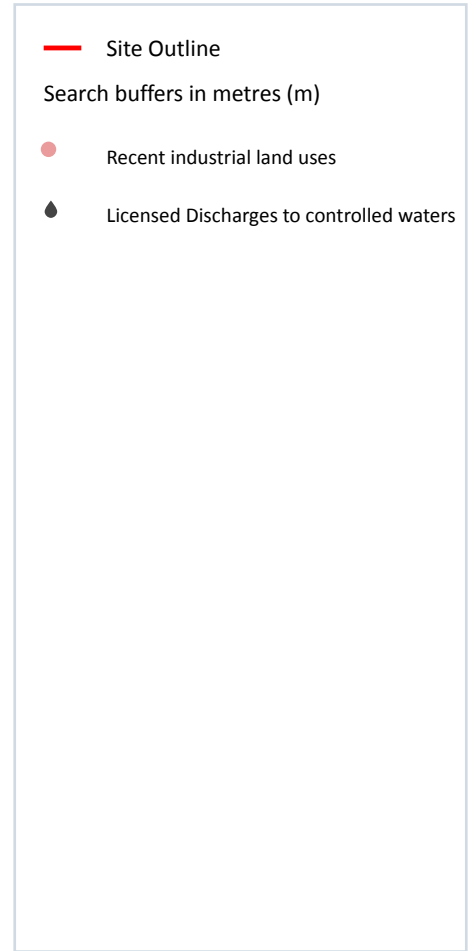
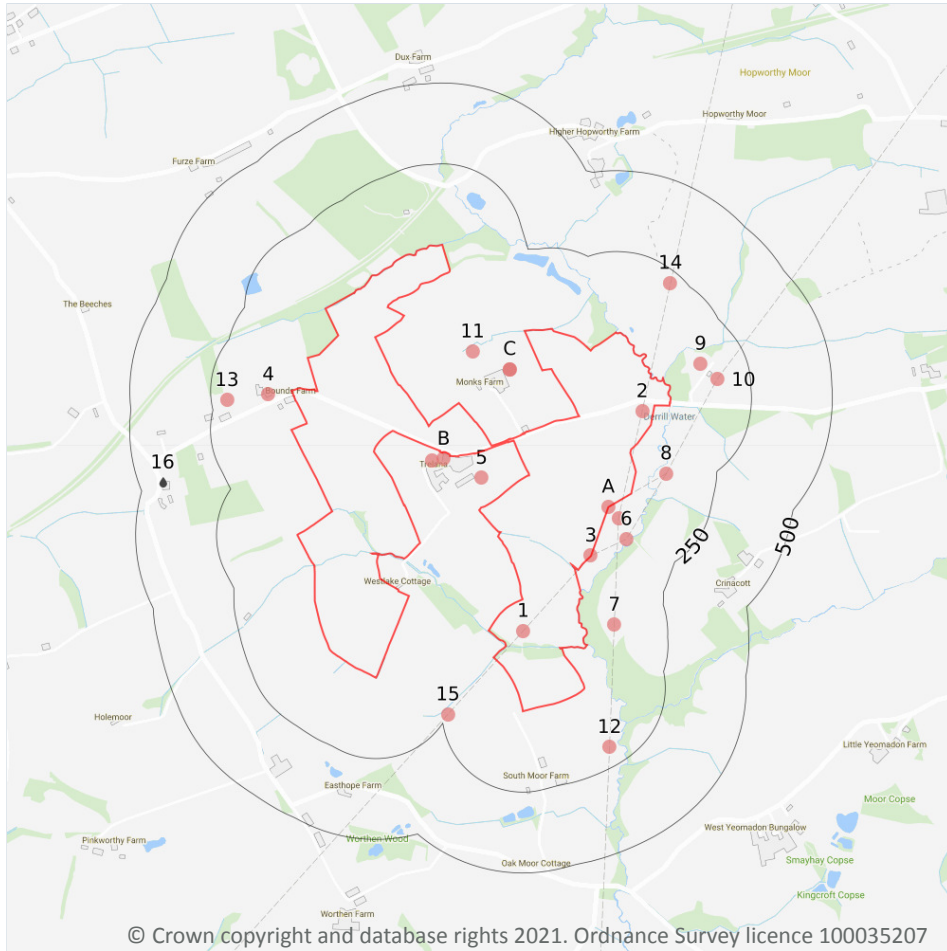


ID	Location	Site	Reference	Category	Sub-Category	Description
D	427m SE	CRINACOTT FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX037165	Using waste exemption	On a farm	Use of mulch
D	427m SE	CRINACOTT FARM, PYWORTHY, HOLSWORTHY, EX22 6LJ	WEX037165	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m **21**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
3	On site	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
A	On site	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
B	20m S	Silo	Devon, EX22	Hoppers and Silos	Farming
B	38m SW	Pump House	Devon, EX22	Water Pumping Stations	Industrial Features
A	41m E	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
4	73m W	Penborn Goat Farm	Bounds Cross, Pyworthy, Holsworthy, Devon, EX22 6LH	Livestock Farming	Farming
5	78m S	Slurry Pit	Devon, EX22	Waste Storage, Processing and Disposal	Infrastructure and Facilities
6	86m E	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
7	88m E	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
C	90m SW	Slurry	Devon, EX22	Waste Storage, Processing and Disposal	Infrastructure and Facilities
C	91m SW	Pit	Devon, EX22	Unspecified Quarries Or Mines	Extractive Industries
8	94m E	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
9	117m NE	Electricity Sub Station	Devon, EX22	Electrical Features	Infrastructure and Facilities
10	148m E	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
11	164m N	Pump House	Devon, EX22	Water Pumping Stations	Industrial Features
12	192m SE	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
13	202m W	Pump	Devon, EX22	Water Pumping Stations	Industrial Features
14	215m NE	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities
15	225m SW	Pylon	Devon, EX22	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

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

This data is sourced from Experian.

4.3 Electricity cables

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

This data is sourced from National Grid.

4.4 Gas pipelines

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

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
---------------------	---

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

1

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 28**

ID	Location	Address	Details	
16	430m W	ST HILARY STP, BOUNDS CROSS, PYWORTHY, HOLSWORTHY, DEVON, EX22 6LH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRJB3296NP Permit Version: 1 Receiving Water: DRAIN LEADING INTO RIVER TAMAR	Status: NEW ISSUED UNDER EPR 2010 Issue date: 22/05/2018 Effective Date: 22/05/2018 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**0**

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

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

4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

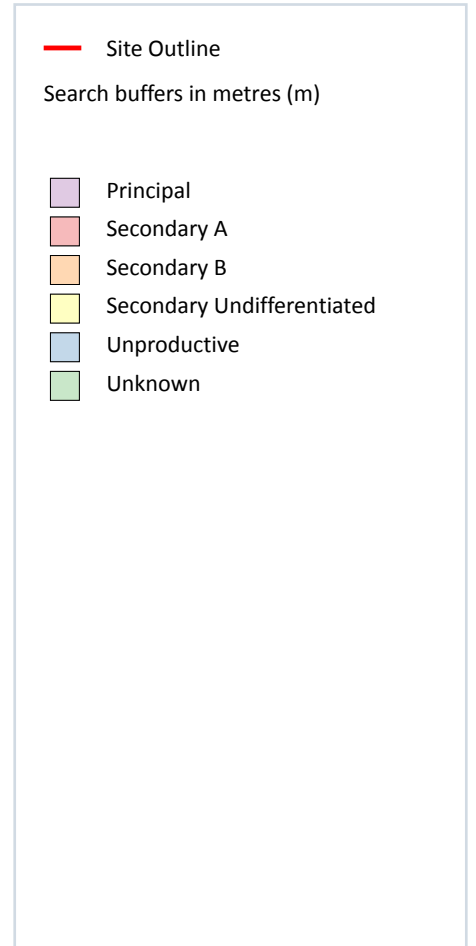
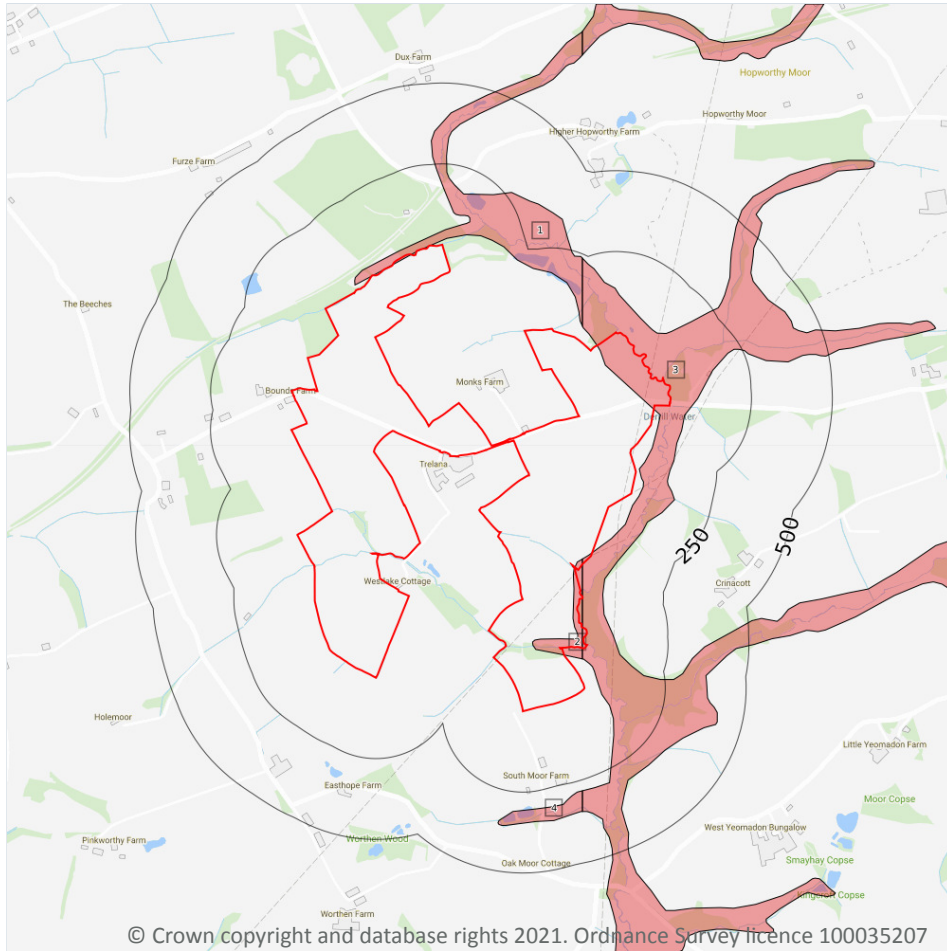
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 35**

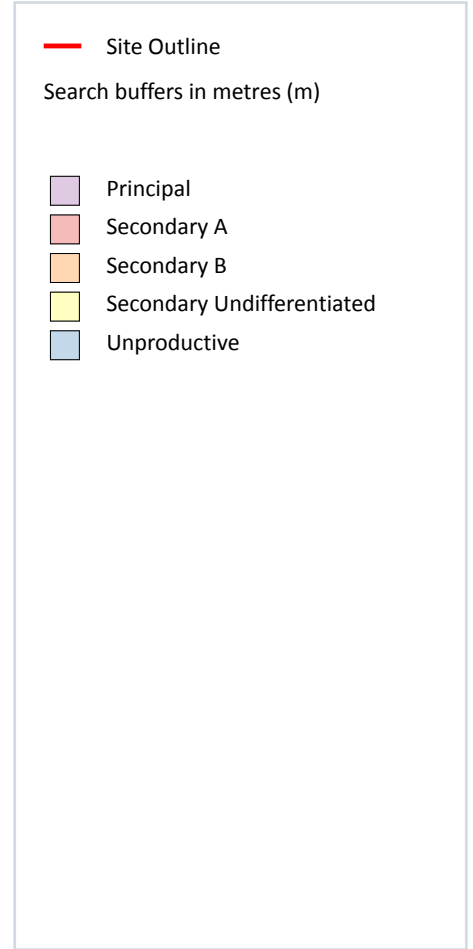
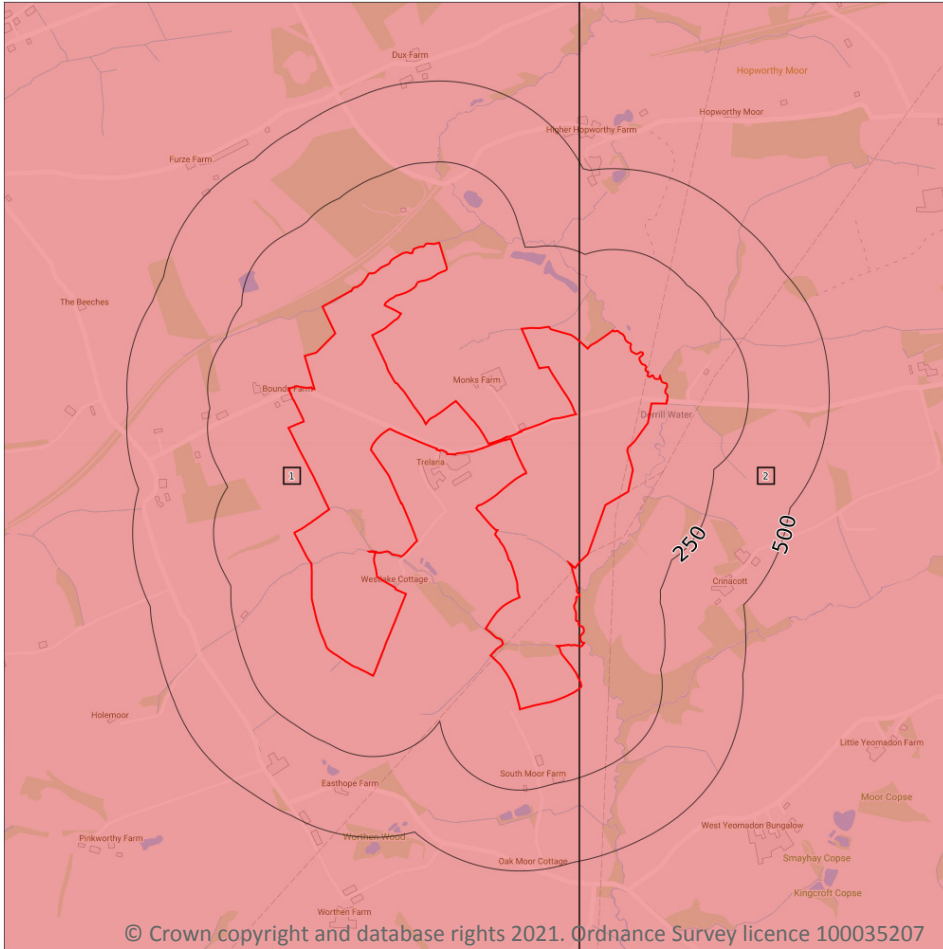
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	282m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

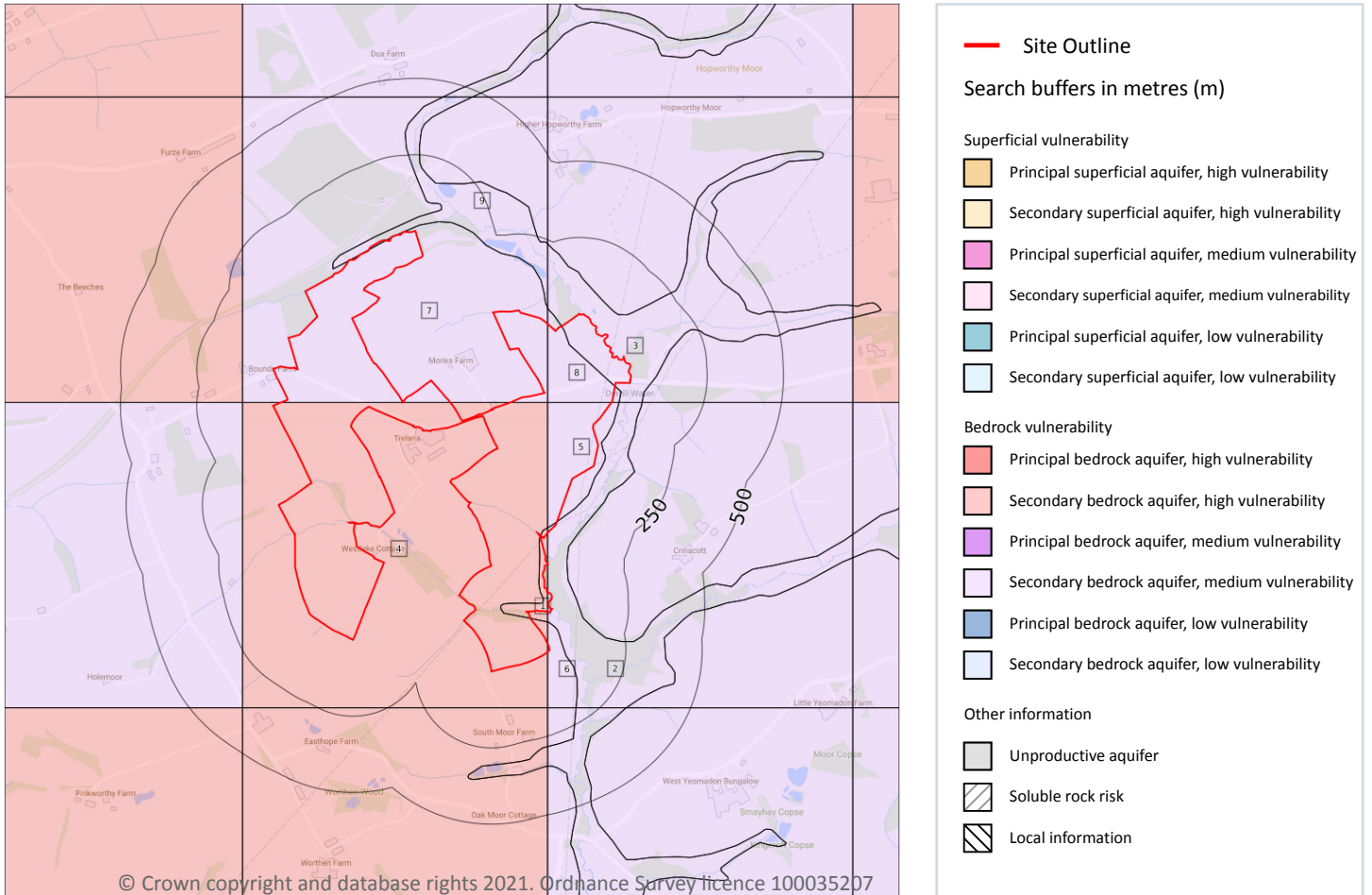
Features are displayed on the Bedrock aquifer map on **page 37**

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

9

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 39**

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



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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

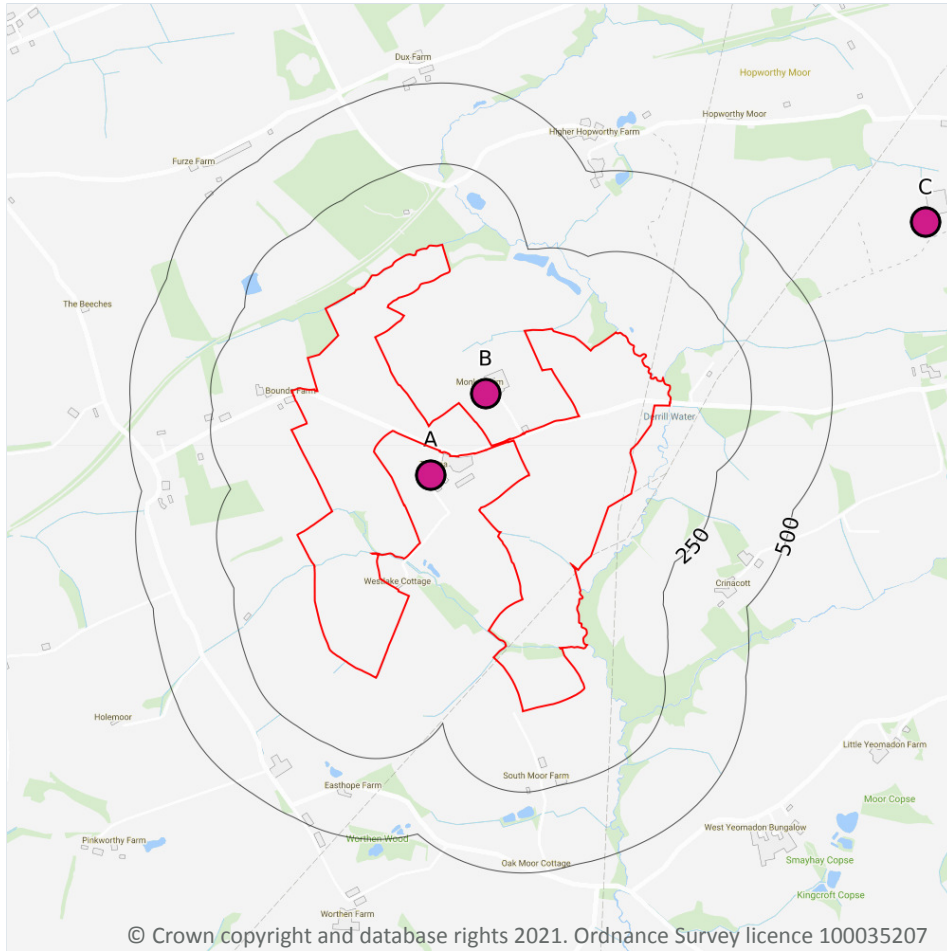
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

14

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 42**

ID	Location	Details	
A	77m S	Status: Historical Licence No: 15/47/008/G/085 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "TRELANA FARM, PYWORTHY - BOREHOLE A" Data Type: Point Name: Burnard Easting: 229530 Northing: 101850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/10/1996 Expiry Date: - Issue No: 100 Version Start Date: 17/02/2000 Version End Date: -
A	77m S	Status: Active Licence No: 15/47/008/G/085 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: TRELANA FARM, PYWORTHY - BOREHOLE A Data Type: Point Name: Burnard Easting: 229530 Northing: 101850	Annual Volume (m ³): 9,125 Max Daily Volume (m ³): 25 Original Application No: - Original Start Date: 24/10/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
B	79m NE	Status: Historical Licence No: 15/47/008/G/046 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "MONKS FARM, PYWORTHY - BOREHOLE" Data Type: Point Name: Wickett Easting: 229700 Northing: 102100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
B	79m NE	Status: Historical Licence No: 15/47/008/G/046 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: MONKS FARM, PYWORTHY - BOREHOLE Data Type: Point Name: Wickett Easting: 229700 Northing: 102100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
C	937m NE	Status: Active Licence No: 15/47/008/G/084 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: HOPPATOWN FARM Data Type: Point Name: Easterbrook Easting: 231060 Northing: 102630	Annual Volume (m ³): 9,264 Max Daily Volume (m ³): 26 Original Application No: - Original Start Date: 24/10/1996 Expiry Date: - Issue No: 101 Version Start Date: 27/08/2015 Version End Date: -



ID	Location	Details	
C	937m NE	Status: Active Licence No: 15/47/008/G/084 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: HOPPATOWN FARM Data Type: Point Name: Easterbrook Easting: 231060 Northing: 102630	Annual Volume (m ³): 9,264 Max Daily Volume (m ³): 26 Original Application No: - Original Start Date: 24/10/1996 Expiry Date: - Issue No: 101 Version Start Date: 27/08/2015 Version End Date: -
-	1006m W	Status: Historical Licence No: 15/47/008/G/051 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "BRADFORD MANOR, PYWORTHY - WELL" Data Type: Point Name: Mill Easting: 228200 Northing: 101200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1006m W	Status: Historical Licence No: 15/47/008/G/051 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BRADFORD MANOR, PYWORTHY - WELL Data Type: Point Name: Mill Easting: 228200 Northing: 101200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1025m S	Status: Historical Licence No: 15/47/008/G/064 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "TINNEY MOOR FARM, PYWORTHY - WELL" Data Type: Point Name: Heard Easting: 229700 Northing: 100100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/09/1971 Version End Date: -
-	1025m S	Status: Historical Licence No: 15/47/008/G/064 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: TINNEY MOOR FARM, PYWORTHY - WELL Data Type: Point Name: Heard Easting: 229700 Northing: 100100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/09/1971 Version End Date: -



ID	Location	Details	
-	1334m NE	Status: Historical Licence No: 15/47/008/G/032 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "BLACK POOL FARM, PYWORTHY - WELL" Data Type: Point Name: Martin Easting: 231200 Northing: 103100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1334m NE	Status: Historical Licence No: 15/47/008/G/032 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: BLACK POOL FARM, PYWORTHY - WELL Data Type: Point Name: Martin Easting: 231200 Northing: 103100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1966 Version End Date: -
-	1922m S	Status: Historical Licence No: 15/47/008/G/008 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: "CARPENTERS TINNEY FARM, PYWORTHY - WELL" Data Type: Point Name: Austin Easting: 229700 Northing: 99200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1984 Version End Date: -
-	1922m S	Status: Historical Licence No: 15/47/008/G/008 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: CARPENTERS TINNEY FARM, PYWORTHY - WELL Data Type: Point Name: Austin Easting: 229700 Northing: 99200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1984 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

0

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



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

5.8 Potable abstractions

Records within 2000m

1

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 42**

ID	Location	Details	
C	937m NE	Status: Active Licence No: 15/47/008/G/084 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - Fresh Point: HOPPATOWN FARM Data Type: Point Name: Easterbrook Easting: 231060 Northing: 102630	Annual Volume (m ³): 9,264 Max Daily Volume (m ³): 26 Original Application No: - Original Start Date: 24/10/1996 Expiry Date: - Issue No: 101 Version Start Date: 27/08/2015 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

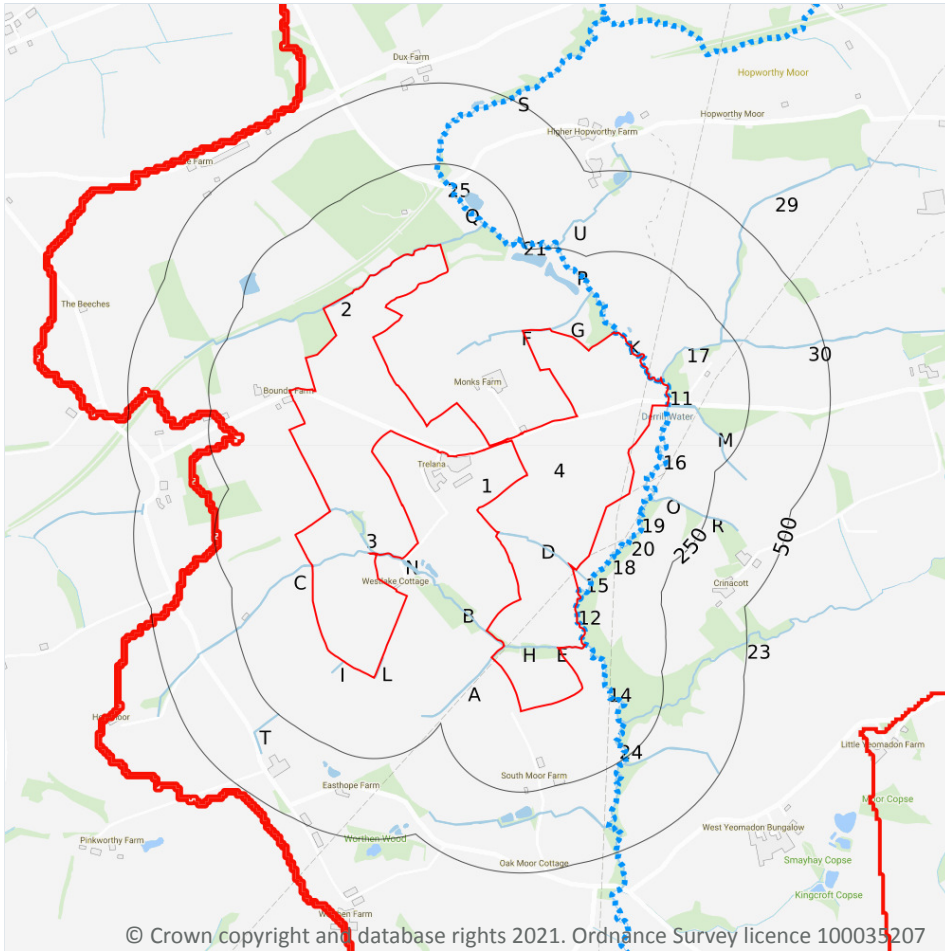
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

48

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 47**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water



ID	Location	Type of water feature	Ground level	Permanence	Name
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
14	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
15	1m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
16	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
M	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	2m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	2m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	4m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	7m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	9m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
18	42m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
F	42m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	46m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	50m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
O	63m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	100m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Derrill Water
F	115m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	120m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	132m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
P	142m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
21	149m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
O	157m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
R	160m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
23	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
25	185m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Derrill Water
S	205m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Derrill Water
29	214m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	214m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	247m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	250m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

21

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 47**

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on **page 47**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
4	On site	River WB catchment	Derril Water	GB108047008070	Tamar Upper	Tamar

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on **page 47**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
13	0m NE	River	Derril Water	GB108047008070	Poor	Good	Poor	2016

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

6.5 WFD Groundwater bodies

Records on site

1

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

Features are displayed on the Hydrology map on **page 47**

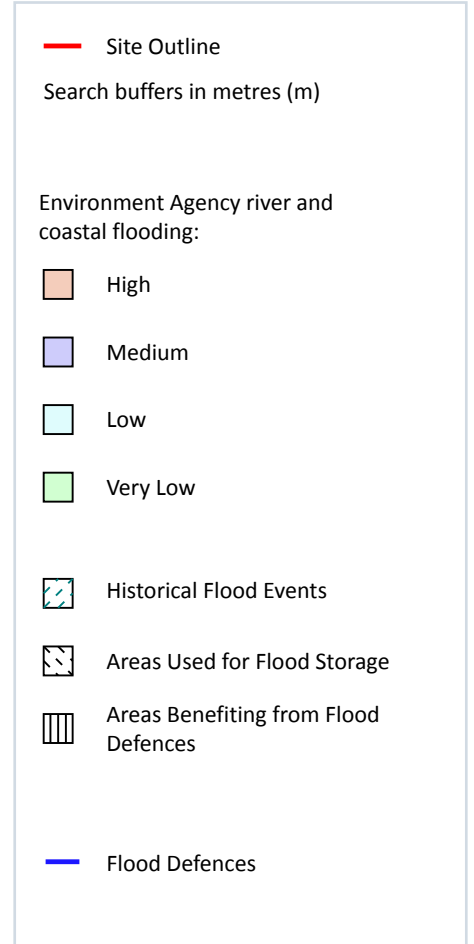
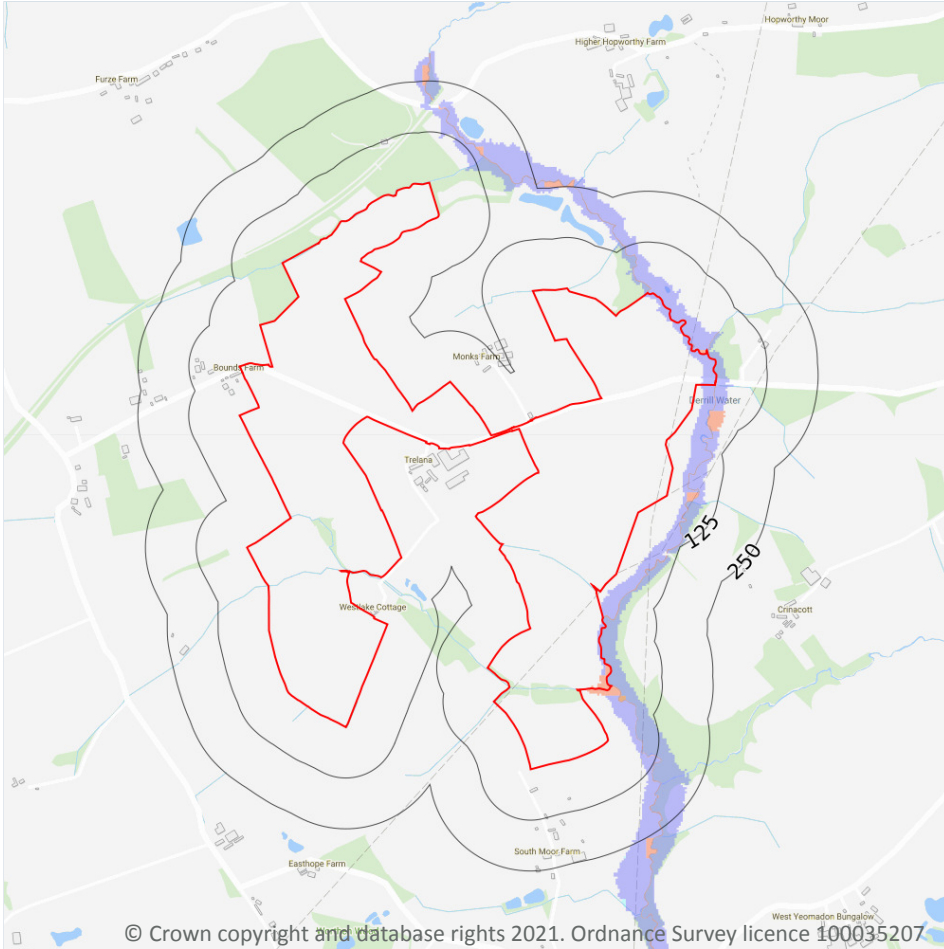


ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Tamar	<u>GB40802G806700</u>	Poor	Poor	Good	2015

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



7 River and coastal flooding



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

13

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).

Features are displayed on the River and coastal flooding map on **page 54**

Distance	RoFRaS flood risk
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

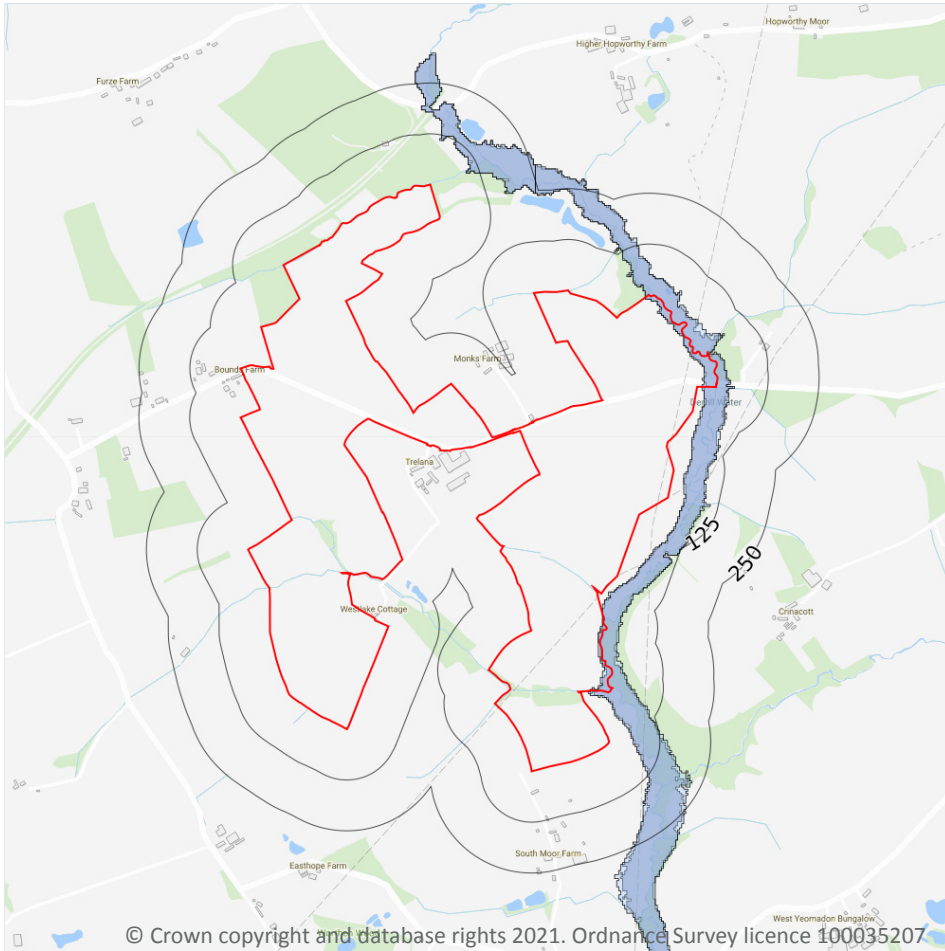
Records within 250m

0

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

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

River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 54**

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

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

7.7 Flood Zone 3

Records within 50m

1

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

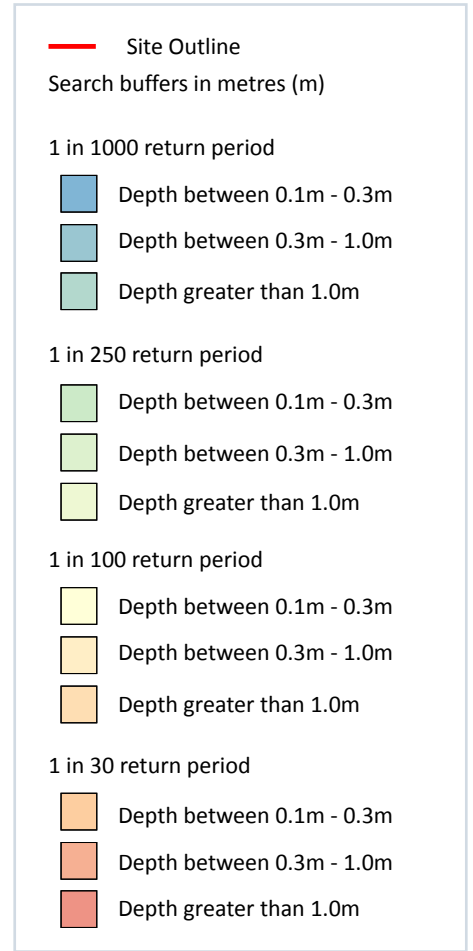
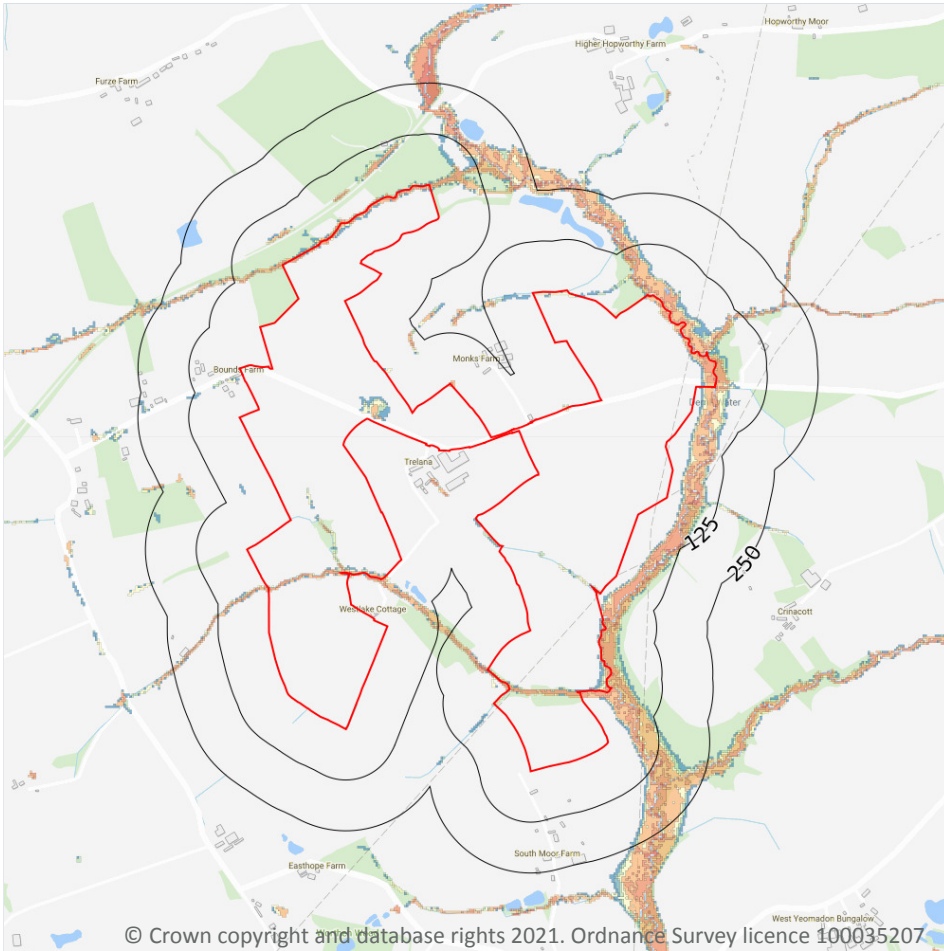
Features are displayed on the River and coastal flooding map on **page 54**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on **page 58**

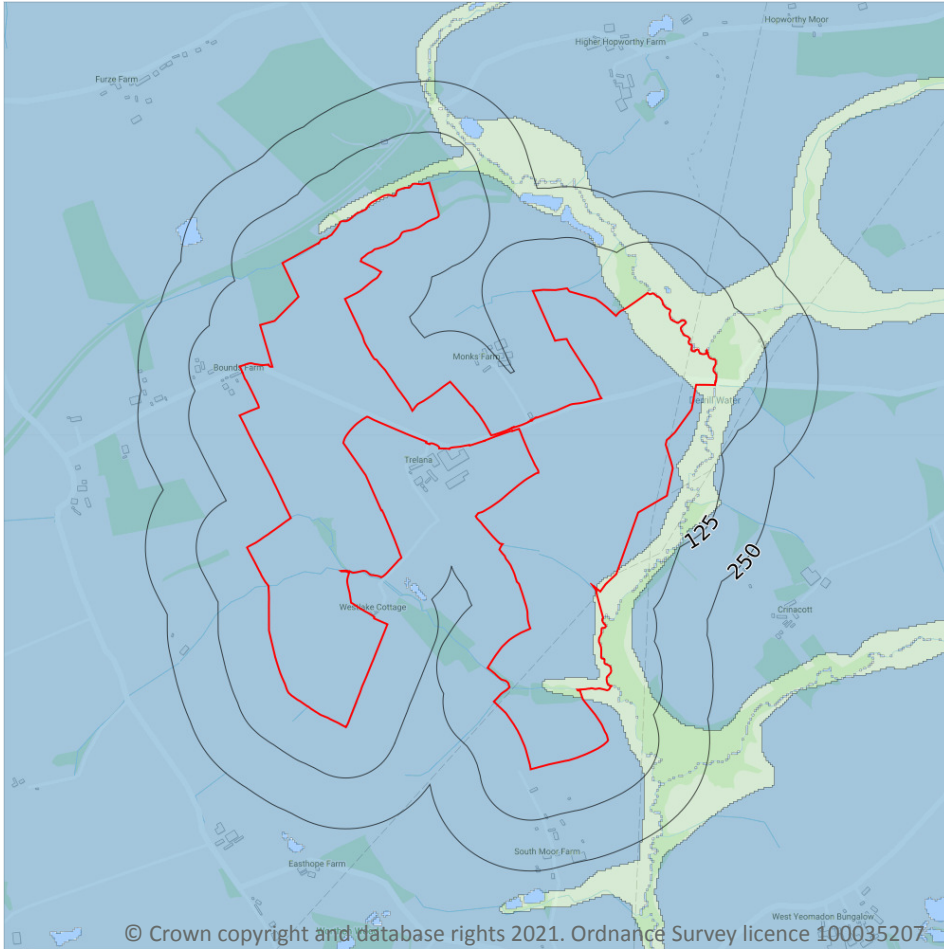
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on **page 60**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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



10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

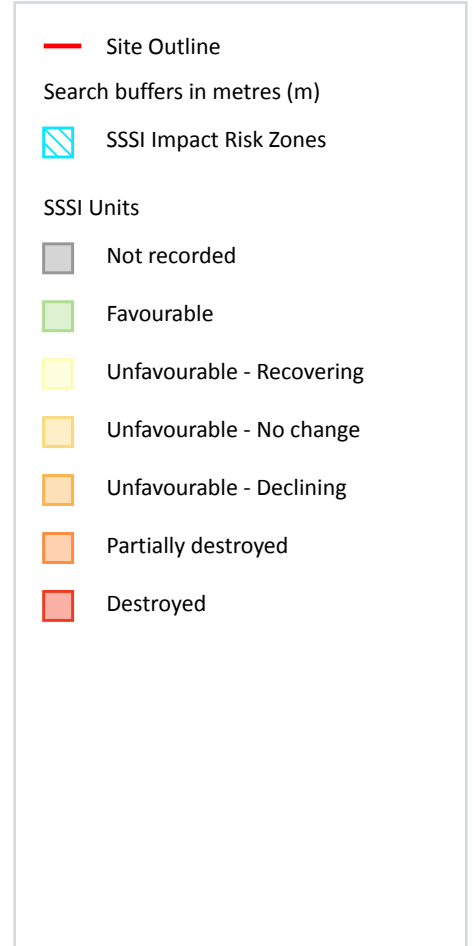
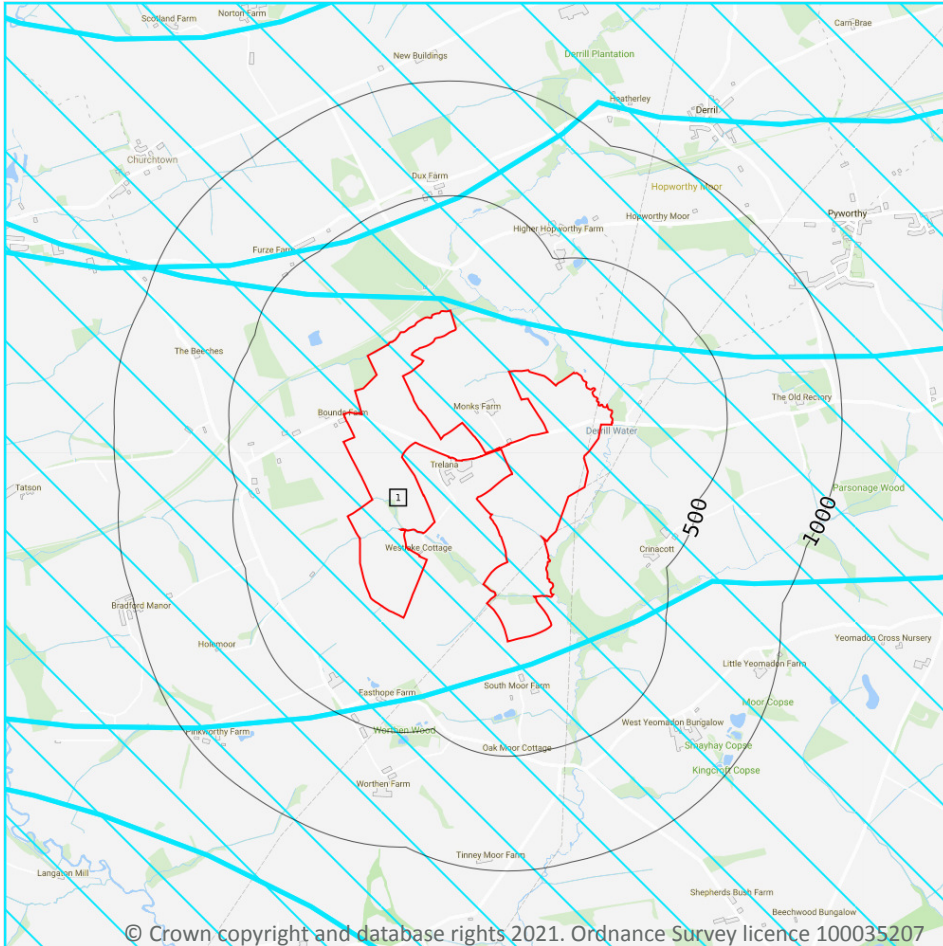
0

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



10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 65**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

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.

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

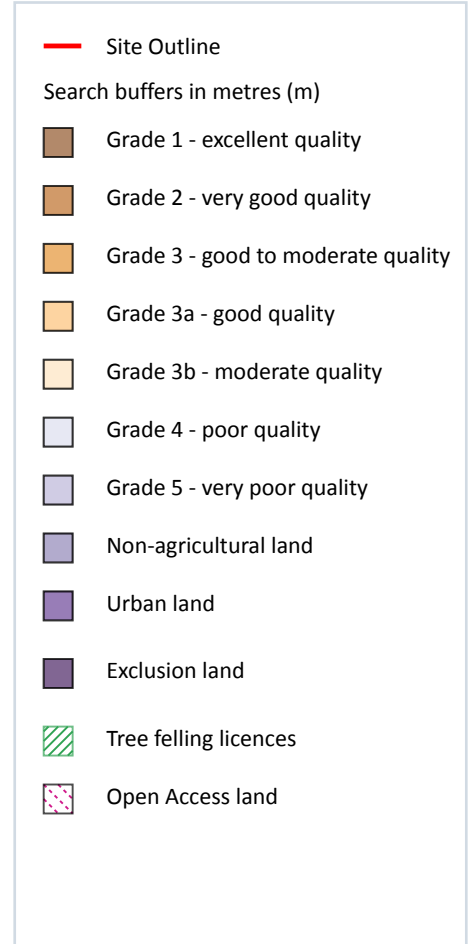
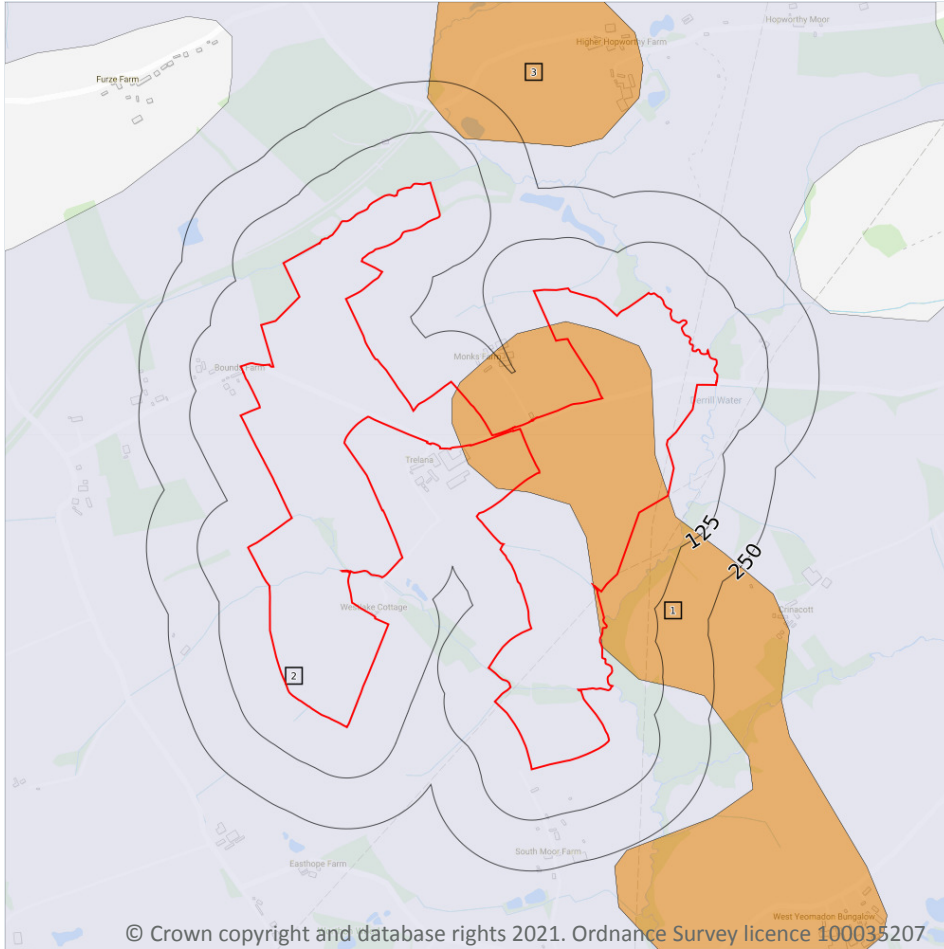
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

3

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 69**

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

ID	Location	Classification	Description
2	On site	Grade 4	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.
3	137m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m **0**

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

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

12.3 Tree Felling Licences

Records within 250m **0**

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m **3**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

Location	Reference	Scheme	Start Date	End date
1m NE	AG00494333	Entry Level Stewardship	01/11/2013	31/10/2018
169m SE	AG00551371	Organic Entry Level Stewardship	01/01/2014	31/12/2018



Location	Reference	Scheme	Start Date	End date
184m N	AG00494333	Entry Level Stewardship	01/11/2013	31/10/2018

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	7
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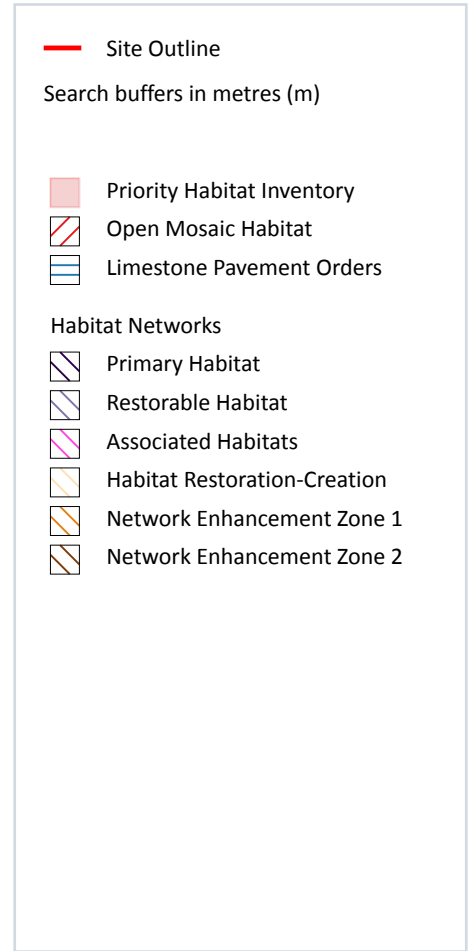
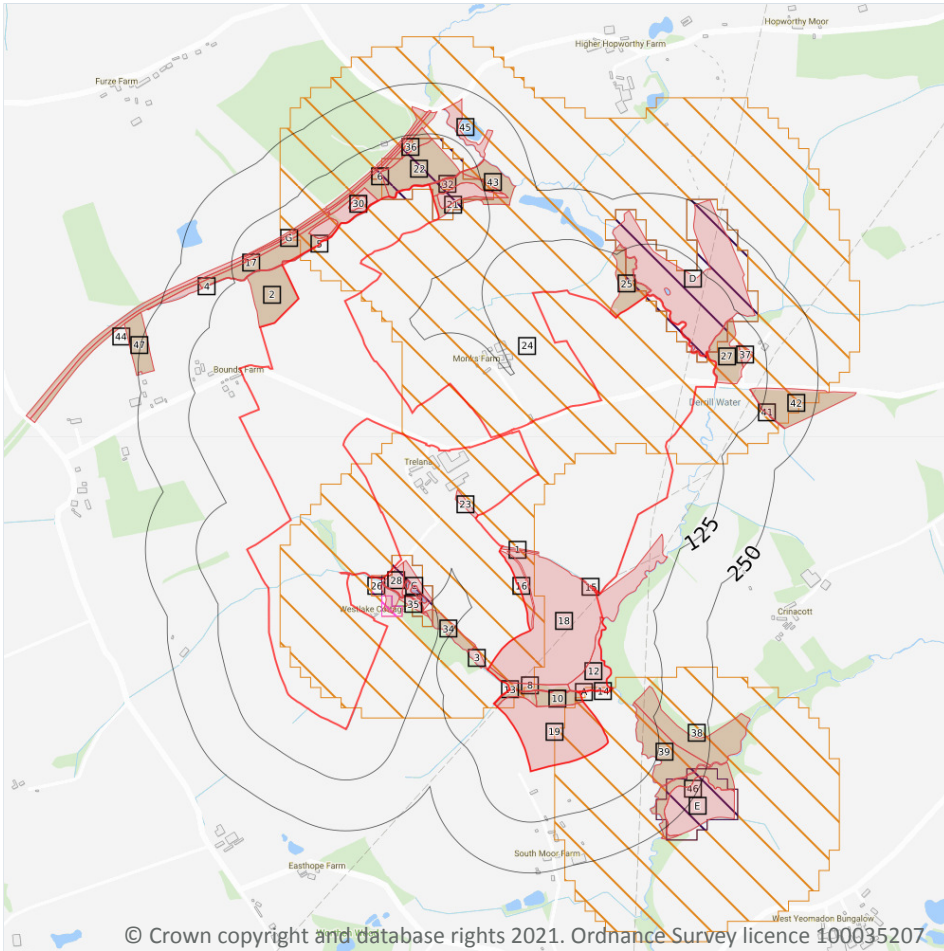
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	628595	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
On site	520556	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
80m N	470759	Countryside Stewardship (Higher Tier)	01/01/2018	31/12/2027
92m NE	827652	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2021
112m E	628595	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
191m N	470759	Countryside Stewardship (Higher Tier)	01/01/2018	31/12/2027
199m E	628595	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

57

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 72**

ID	Location	Main Habitat	Other habitats
1	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); PMGRP (INV > 50%)
8	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: PMGRP (FEP 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: PMGRP (FEP 50%)
10	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LFENS (FEP 50%)
11	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LFENS (FEP 50%)
12	On site	No main habitat but additional habitats present	Additional: PMGRP (INV 50%, FEP 50%)
13	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
14	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
15	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
16	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
17	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	On site	No main habitat but additional habitats present	Additional: PMGRP (FEP 50%)
19	On site	No main habitat but additional habitats present	Additional: LFENS (FEP 50%)
20	On site	No main habitat but additional habitats present	Additional: LFENS (FEP 50%)
21	On site	Purple moor grass and rush pastures	Main habitat: PMGRP (INV > 50%)
22	On site	Purple moor grass and rush pastures	Main habitat: DWOOD (INV > 50%); PMGRP (INV > 50%)
23	On site	Traditional orchard	Main habitat: TORCH (INV > 50%)
25	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: PMGRP (FEP 50%)
B	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	1m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	1m E	Purple moor grass and rush pastures	Main habitat: PMGRP (INV > 50%)
28	6m SE	Purple moor grass and rush pastures	Main habitat: PMGRP (FEP + HLS); Additional: DWOOD (FEP 50%)
29	6m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	8m SE	Purple moor grass and rush pastures	Main habitat: DWOOD (INV > 50%); PMGRP (FEP + HLS)
F	8m SE	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
F	9m S	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
30	10m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
31	10m E	Purple moor grass and rush pastures	Main habitat: PMGRP (INV > 50%)
G	35m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	44m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); PMGRP (FEP + HLS)
33	47m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
G	49m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	57m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
35	62m SE	Purple moor grass and rush pastures	Main habitat: DWOOD (INV > 50%); PMGRP (FEP + HLS)
36	62m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
37	64m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	65m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); PMGRP (FEP + HLS)
38	66m SE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
39	66m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
40	77m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
41	85m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
42	86m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
43	86m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
44	90m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
C	92m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); PMGRP (FEP + HLS)
45	134m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
46	170m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: PMGRP (INV 50%)
E	197m SE	Purple moor grass and rush pastures	Main habitat: PMGRP (INV > 50%)
47	210m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

9

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

Features are displayed on the Habitat designations map on **page 72**

ID	Location	Type	Habitat
24	On site	Network Enhancement Zone 1	Not specified
26	On site	Associated Habitats	Other associated habitats
B	On site	Primary Habitat	Purple moor grass and rush pasture
C	On site	Primary Habitat	Purple moor grass and rush pasture
D	On site	Primary Habitat	Purple moor grass and rush pasture
E	On site	Network Enhancement Zone 1	Not specified
F	17m NE	Associated Habitats	Other associated habitats
32	29m E	Network Enhancement Zone 1	Not specified
E	170m SE	Primary Habitat	Purple moor grass and rush pasture

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 77](#)

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

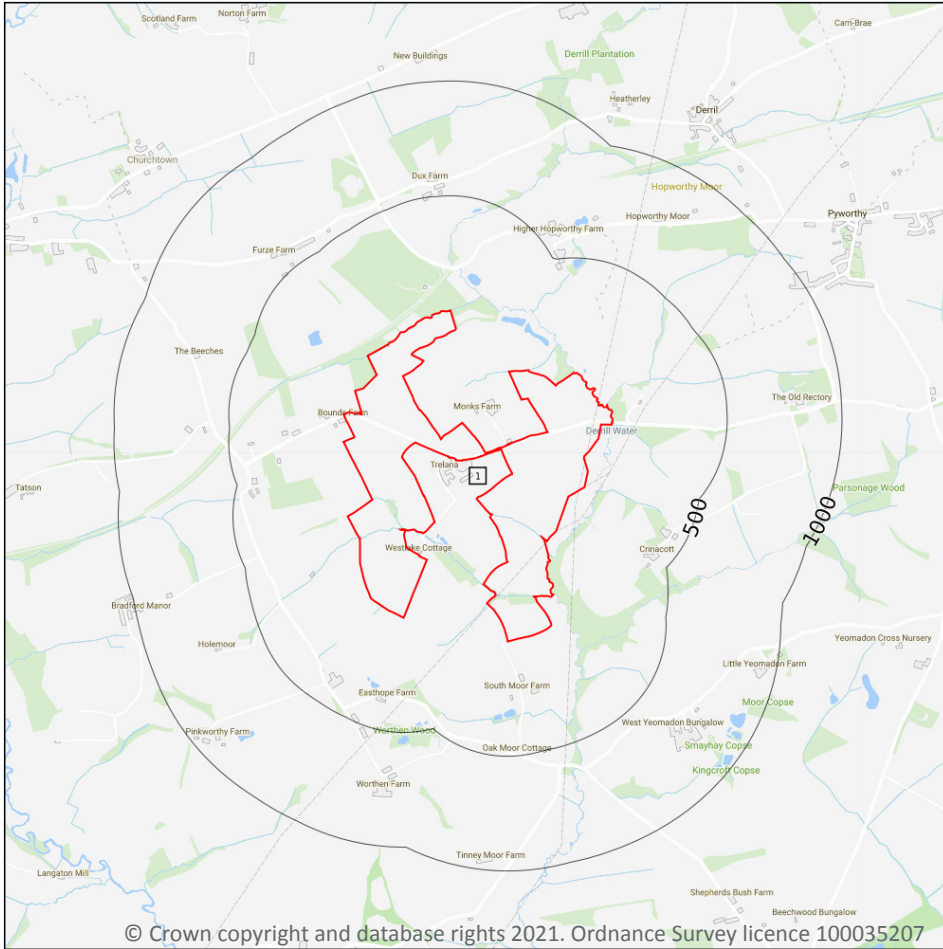
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 81**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW323_holsworthy_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

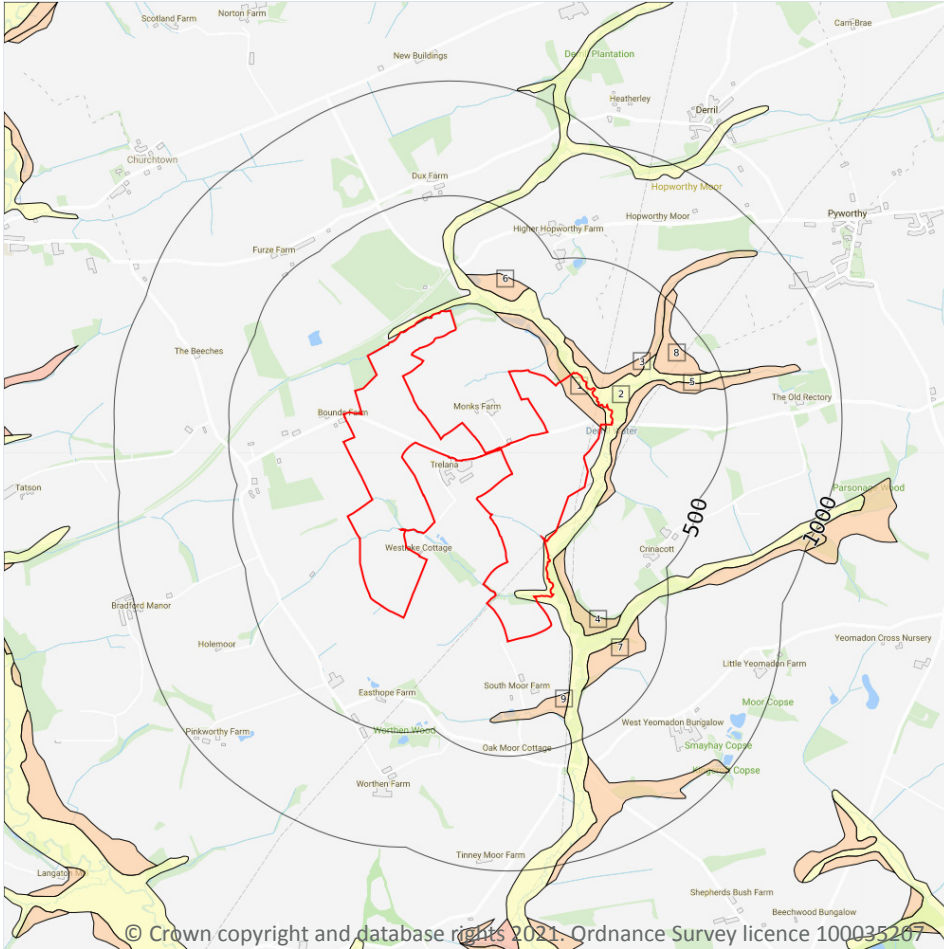
0


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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

9

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	On site	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	12m NE	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
4	15m E	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	35m SE	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
6	154m NE	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
7	211m SE	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
8	261m NE	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL
9	282m S	TAM6-XSV	RIVER TERRACE DEPOSITS, 6 (TAMAR)	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

8

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
12m NE	Intergranular	Very High	High
15m SE	Intergranular	Very High	High
35m E	Intergranular	Very High	High
42m N	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

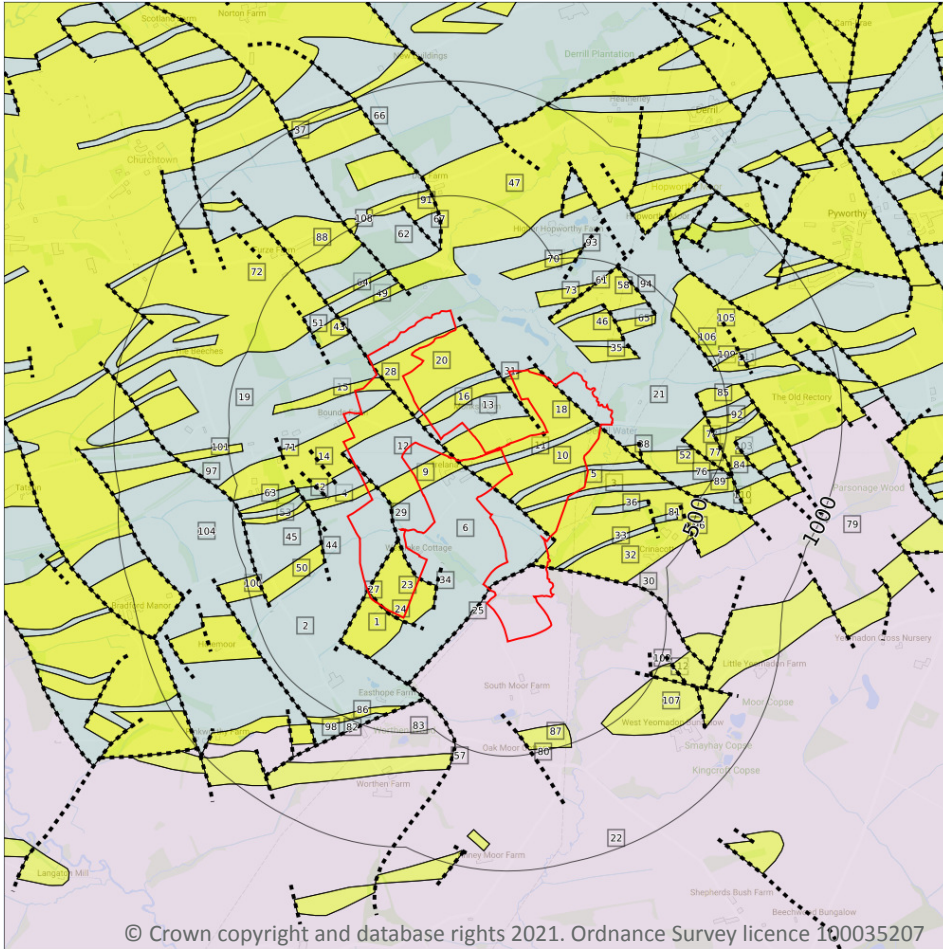
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

78

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 86**

ID	Location	LEX Code	Description	Rock age
1	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
2	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
3	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
4	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
5	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
6	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
7	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
8	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
9	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
10	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
11	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
12	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
13	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
14	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
15	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
16	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
17	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
18	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
19	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
20	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
21	On site	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
22	On site	CKF-MDSI	CRACKINGTON FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
23	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
32	On site	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
33	33m SE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
35	72m NE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
36	101m SE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
38	106m SE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
42	123m NW	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
43	125m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
45	129m W	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
46	137m N	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
47	139m N	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
49	151m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
50	154m W	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
52	171m SE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
53	175m W	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
54	191m NW	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
55	200m W	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
56	215m NW	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
58	228m N	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
59	228m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
62	242m N	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
63	244m NW	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
64	244m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
65	252m NE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
67	265m N	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
69	267m NW	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
70	268m NE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
72	272m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
73	279m N	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
74	280m NE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
76	290m SE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
78	311m E	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
79	313m E	CKF-MDSI	CRACKINGTON FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
81	326m SE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
83	364m S	CKF-MDSI	CRACKINGTON FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
85	373m E	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
86	386m S	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
87	394m S	CKF-SDST	CRACKINGTON FORMATION - SANDSTONE	NAMURIAN



ID	Location	LEX Code	Description	Rock age
88	399m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
89	401m SE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
90	401m E	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
91	408m N	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
92	409m E	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
98	426m S	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
99	437m E	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
100	438m W	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
101	440m W	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
103	448m E	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
104	450m W	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
105	451m NE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
107	453m SE	CKF-SDST	CRACKINGTON FORMATION - SANDSTONE	NAMURIAN
108	469m NW	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
109	472m NE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
110	475m SE	BF-MDSI	BUDE FORMATION - MUDSTONE AND SILTSTONE	WESTPHALIAN
111	479m NE	BF-SDST	BUDE FORMATION - SANDSTONE	WESTPHALIAN
112	479m SE	CKF-SDST	CRACKINGTON FORMATION - SANDSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

19

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

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



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Moderate
On site	Fracture	Moderate	Moderate
On site	Fracture	Moderate	Moderate
On site	Fracture	Moderate	Moderate
On site	Fracture	Low	Low
On site	Fracture	Moderate	Moderate
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Moderate	Moderate
On site	Fracture	Moderate	Moderate
On site	Fracture	Low	Low
On site	Fracture	Moderate	Moderate
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
33m E	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

34

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 86**

ID	Location	Category	Description
24	On site	FAULT	Fault, observed, displacement unknown
25	On site	FAULT	Fault, inferred, displacement unknown
26	On site	FAULT	Fault, inferred, displacement unknown
27	On site	FAULT	Fault, inferred, displacement unknown



ID	Location	Category	Description
28	On site	FAULT	Fault, inferred, displacement unknown
29	On site	FAULT	Fault, inferred, displacement unknown
30	On site	FAULT	Fault, inferred, displacement unknown
31	On site	FAULT	Fault, inferred, displacement unknown
34	70m E	FAULT	Fault, observed, displacement unknown
37	103m NW	FAULT	Fault, inferred, displacement unknown
39	111m SW	FAULT	Fault, observed, displacement unknown
40	112m SW	FAULT	Fault, observed, displacement unknown
41	113m NW	FAULT	Fault, observed, displacement unknown
44	129m W	FAULT	Fault, observed, displacement unknown
48	139m SE	FAULT	Fault, observed, displacement unknown
51	162m NW	FAULT	Fault, inferred, displacement unknown
57	222m SW	FAULT	Fault, inferred, displacement unknown
60	233m NE	FAULT	Fault, observed, displacement unknown
61	241m N	FAULT	Fault, inferred, displacement unknown
66	265m N	FAULT	Fault, inferred, displacement unknown
68	265m N	FAULT	Fault, observed, displacement unknown
71	271m W	FAULT	Fault, observed, displacement unknown
75	282m E	FAULT	Fault, observed, displacement unknown
77	311m E	FAULT	Fault, inferred, displacement unknown
80	318m S	FAULT	Fault, inferred, displacement unknown
82	364m S	FAULT	Fault, observed, displacement unknown
84	373m E	FAULT	Fault, observed, displacement unknown
93	411m N	FAULT	Fault, inferred, displacement unknown
94	416m NE	FAULT	Fault, inferred, displacement unknown
95	420m SE	FAULT	Fault, observed, displacement unknown
96	423m E	FAULT	Fault, inferred, displacement unknown
97	425m W	FAULT	Fault, inferred, displacement unknown

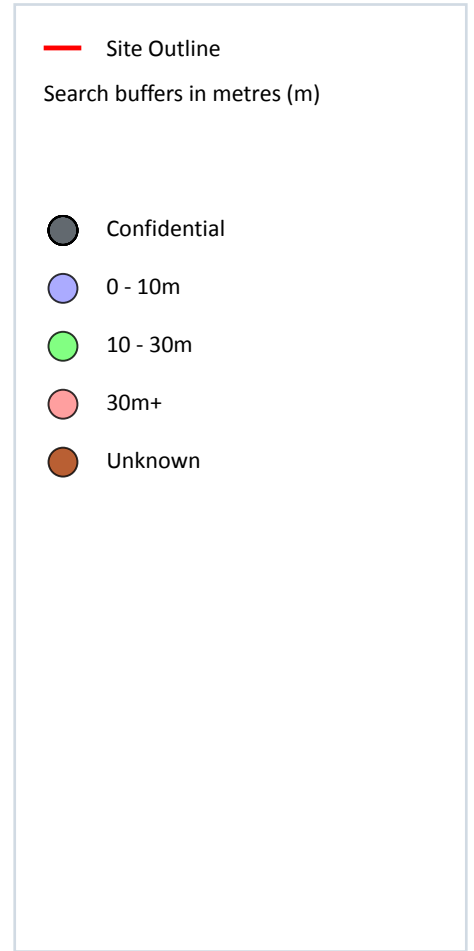


ID	Location	Category	Description
102	444m E	FAULT	Fault, observed, displacement unknown
106	451m NE	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

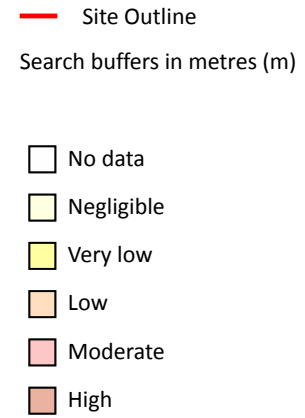
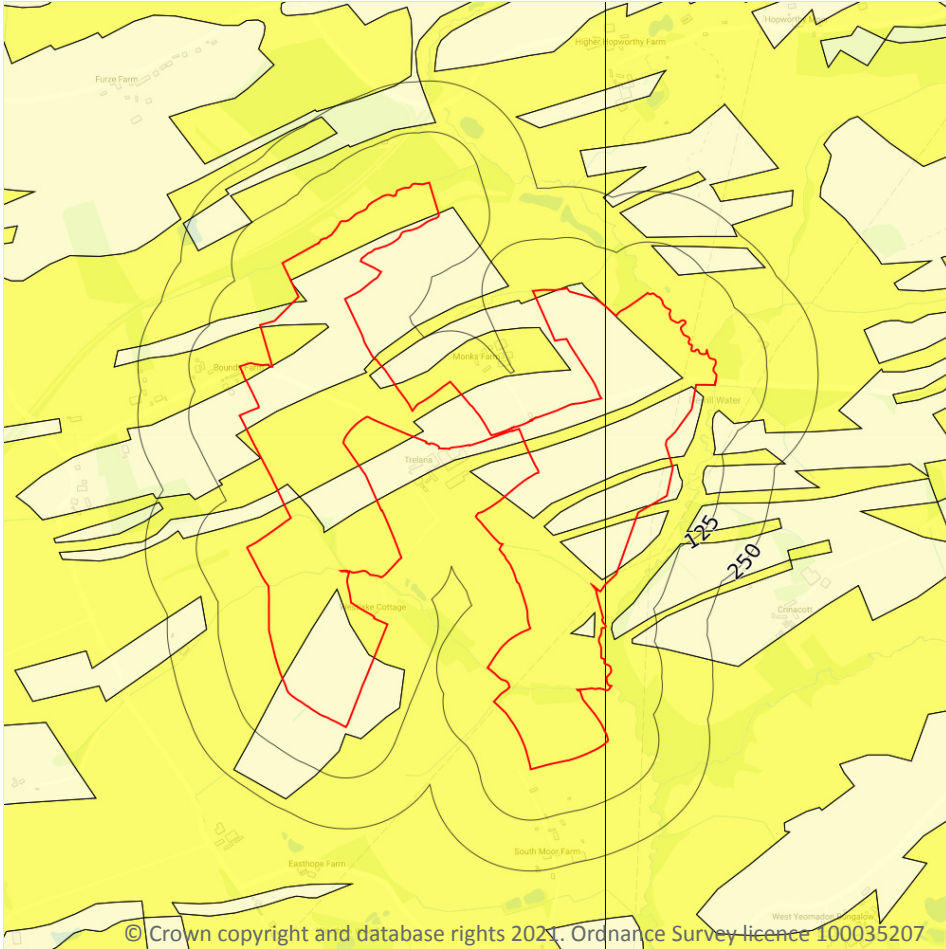
1

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep. Features are displayed on the Boreholes map on **page 93**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	207m SE	230100 101000	INDIAN QUEENS ALVERDISCOTT PROBE 30/2	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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

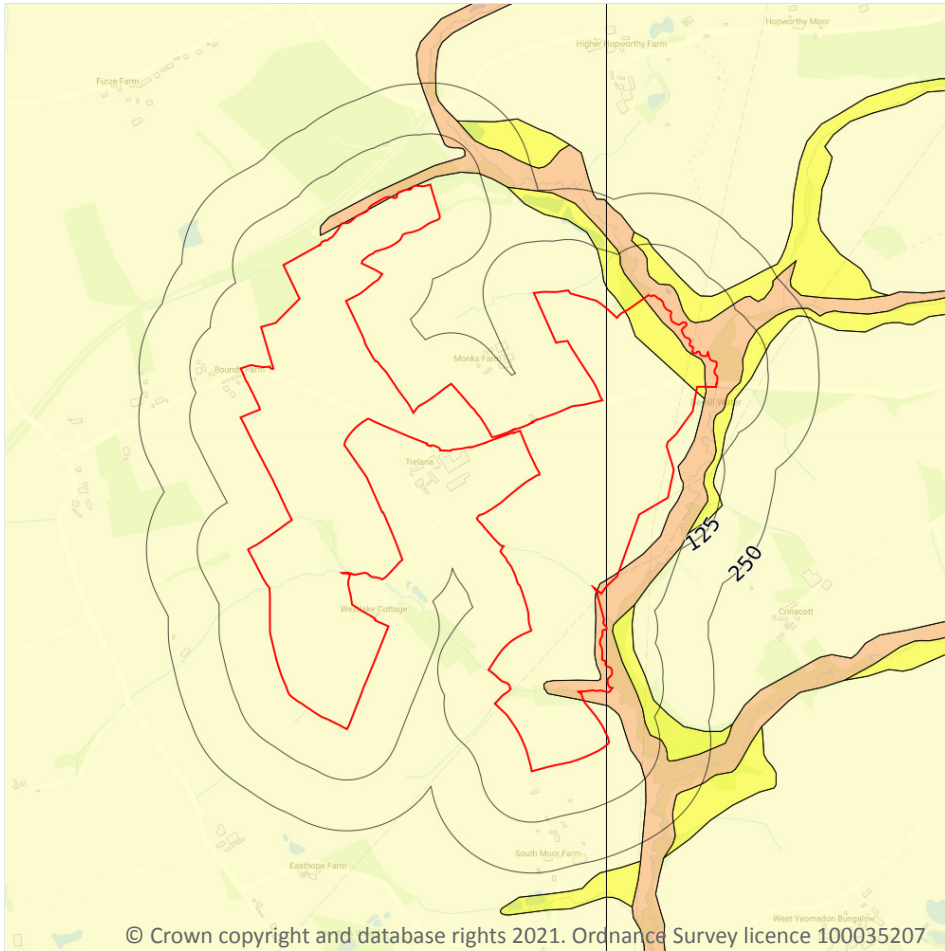
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 94**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
15m E	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

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

17.2 Running sands

Records within 50m

7

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

Features are displayed on the Natural ground subsidence - Running sands map on **page 96**

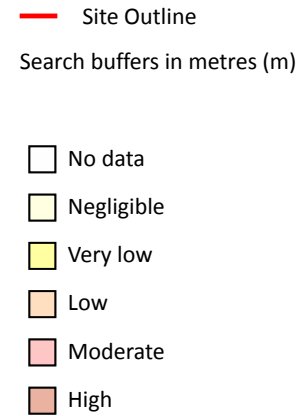
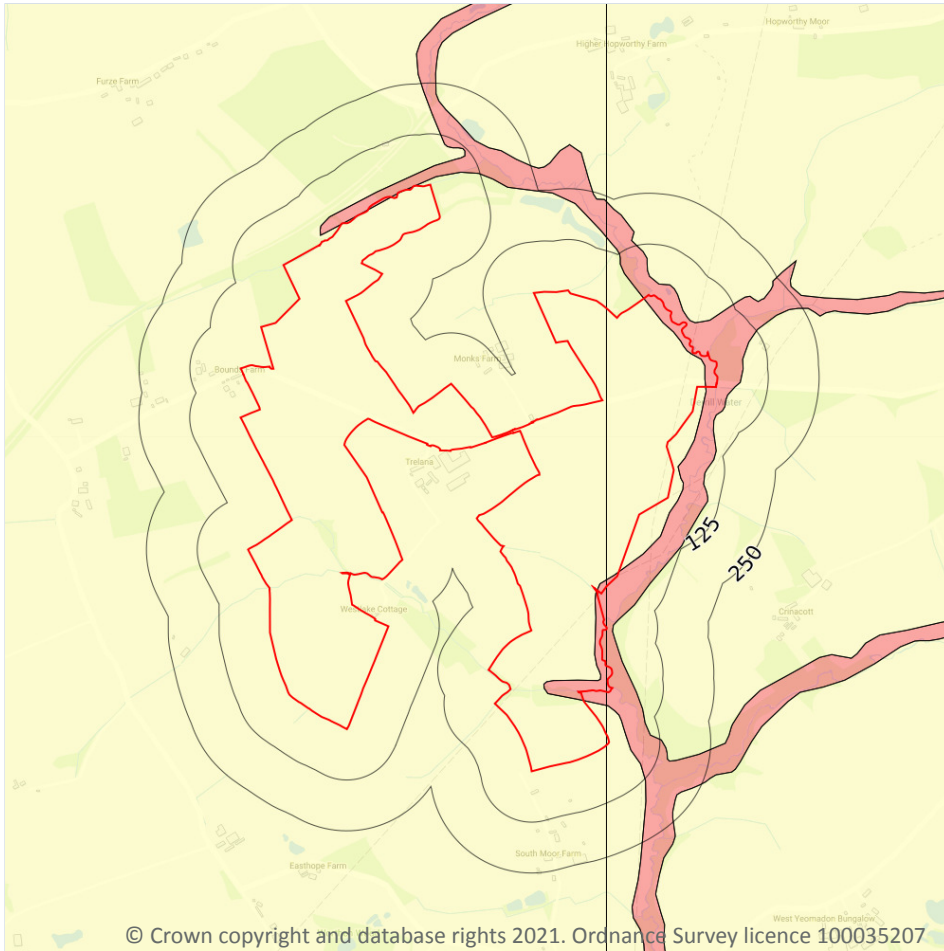
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
12m NE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
15m E	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
35m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
42m NE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 98**

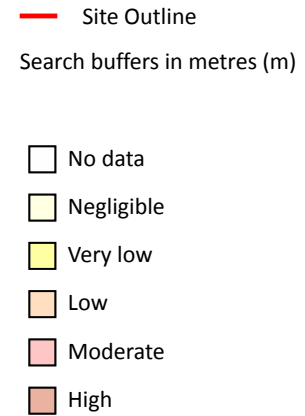
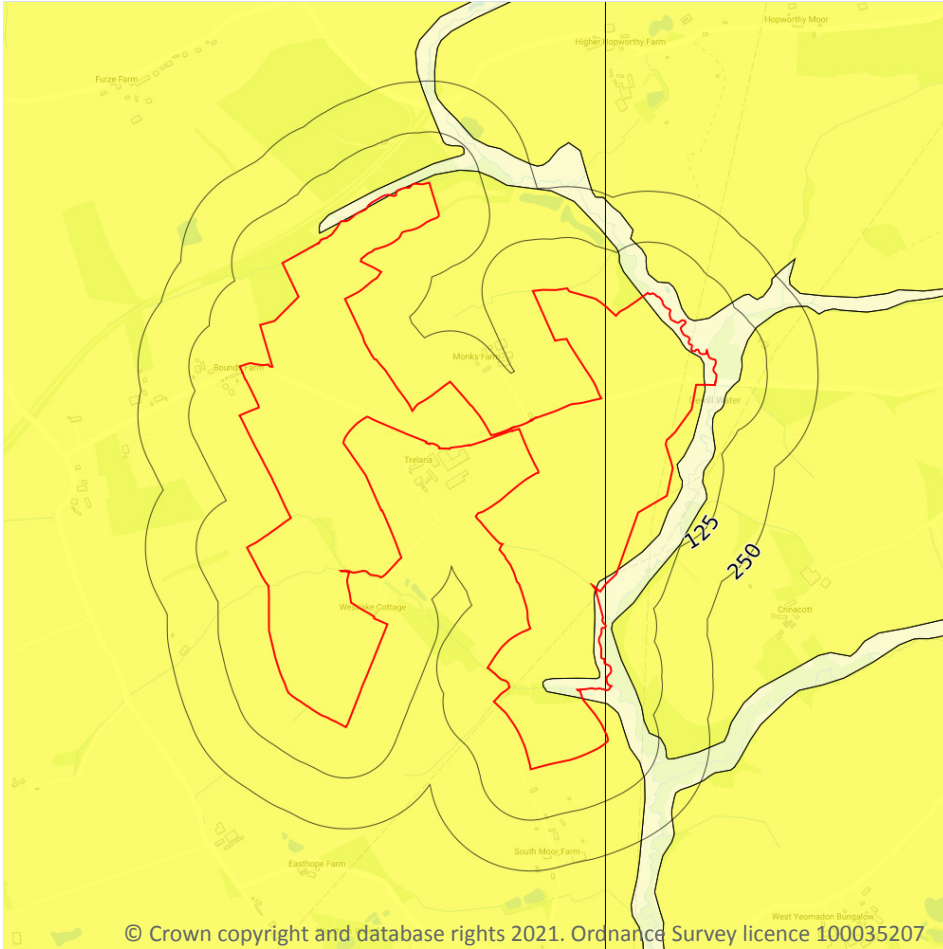
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

Location	Hazard rating	Details
12m NE	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

3

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

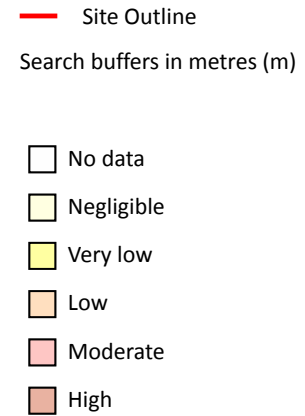
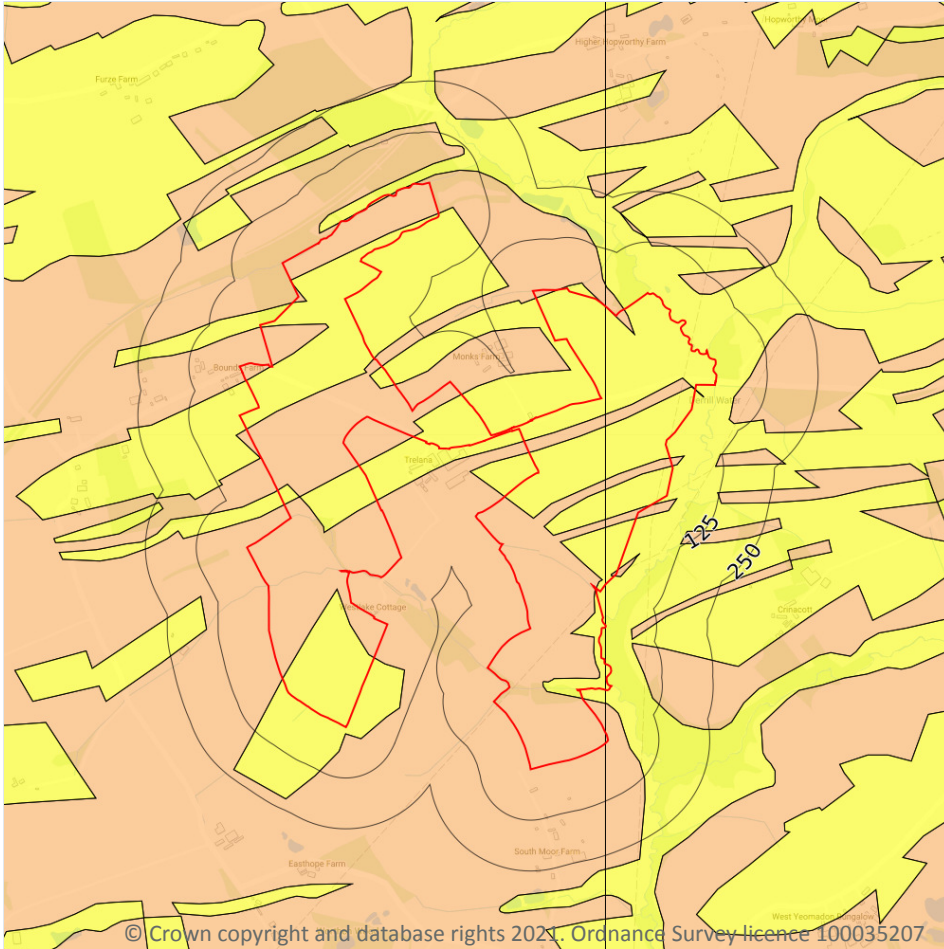
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 100**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
12m NE	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 102**

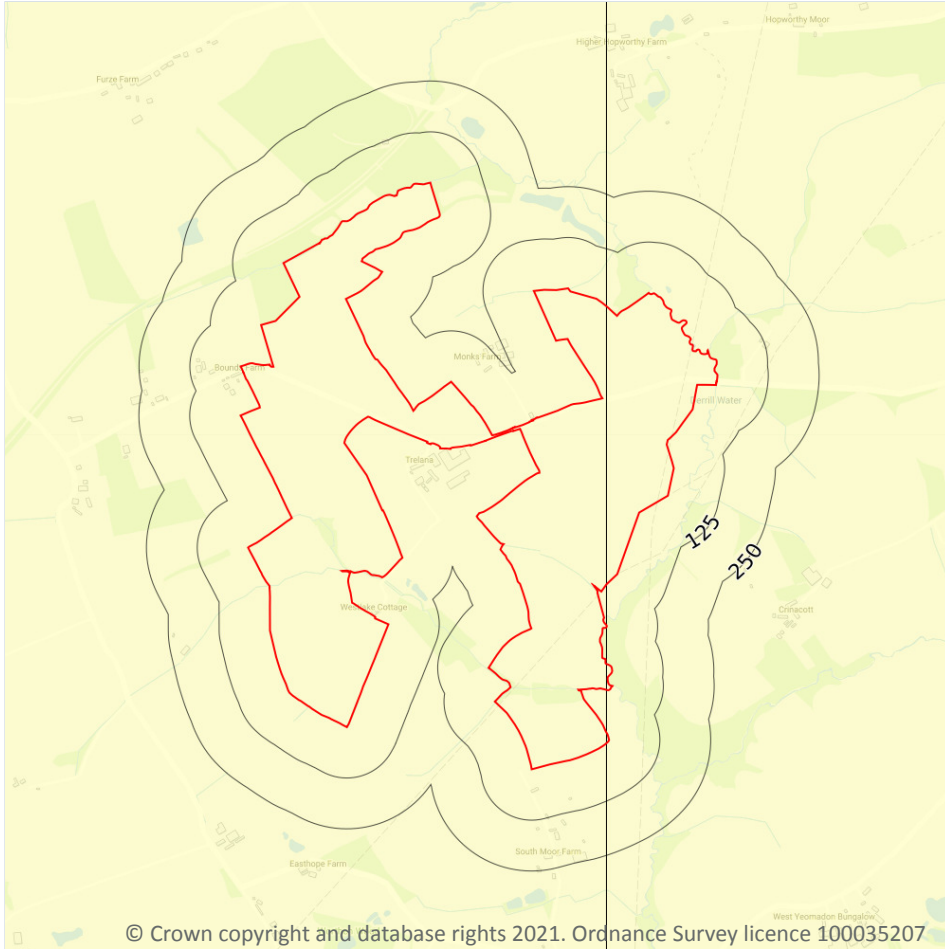
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

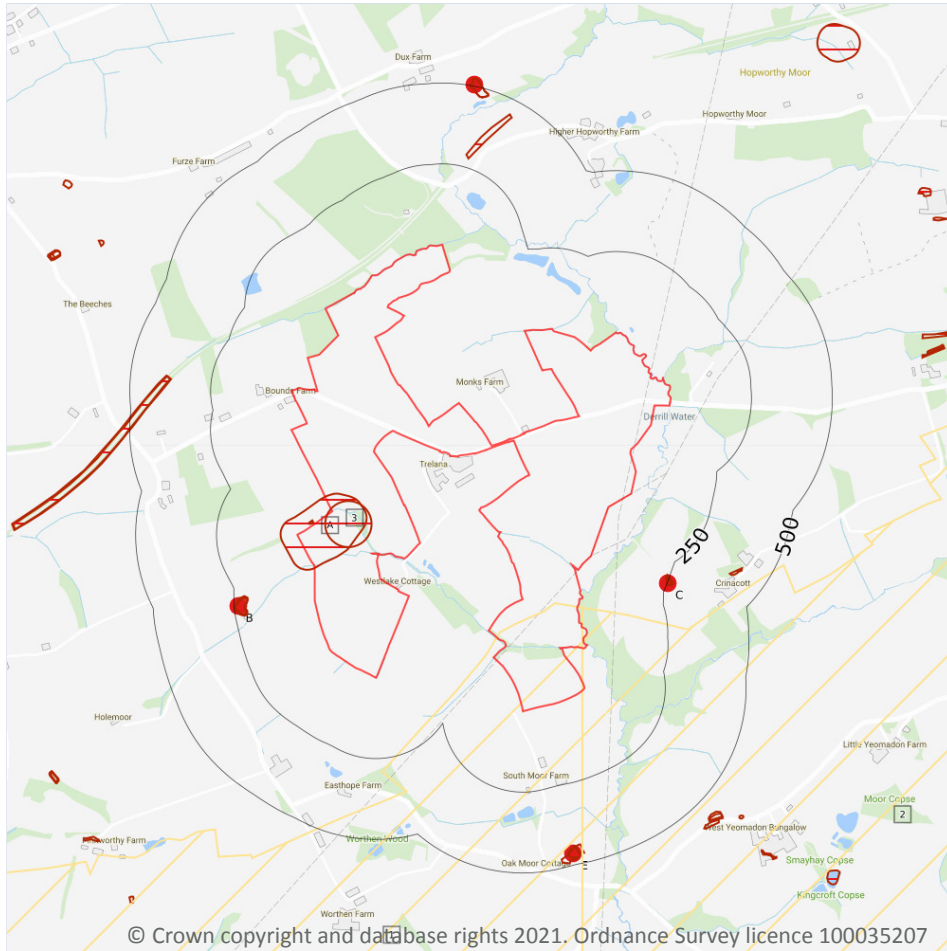
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 104**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m

3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Details	Description
B	238m W	Name: Bradford Manor Address: Bridgerule, HOLSWORTHY, Devon Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	251m E	Name: Crinacott Address: Pyworthy, HOLSWORTHY, Devon Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	465m S	Name: Southmoor Address: Pyworthy, HOLSWORTHY, Devon Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

10

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Land Use	Year of mapping	Mapping scale
3	On site	Pool	1883	1:10560
A	On site	Pool	1907	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	6m NW	Pool	1907	1:10560
B	207m W	Unspecified Quarry	1907	1:10560
B	208m W	Unspecified Quarry	1963	1:10560
B	211m W	Unspecified Quarry	1907	1:10560
B	211m W	Unspecified Quarry	1883	1:10560
C	241m E	Unspecified Quarry	1907	1:10560
C	242m E	Unspecified Quarry	1907	1:10560
C	242m E	Unspecified Quarry	1883	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**



ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
2	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m **0**

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

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site **0**

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site **0**

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site **0**

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



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

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

Records on site

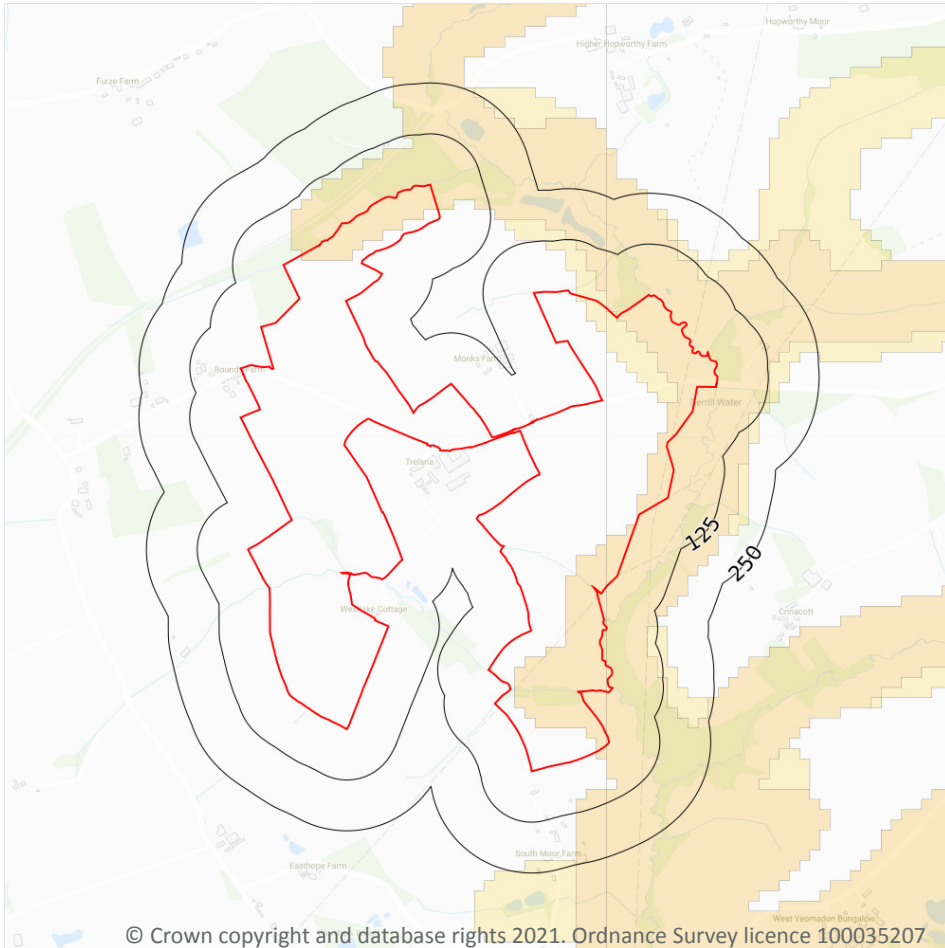
0

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

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



19 Radon



— Site Outline
 Search buffers in metres (m)

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

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19.1 Radon

Records on site

3

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 111**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Less than 1%	None**



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 3% and 5%	Basic

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

92

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
12m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
12m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
12m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
15m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
17m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
18m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
22m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
22m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
24m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
25m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
32m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
33m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
35m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
41m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
42m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

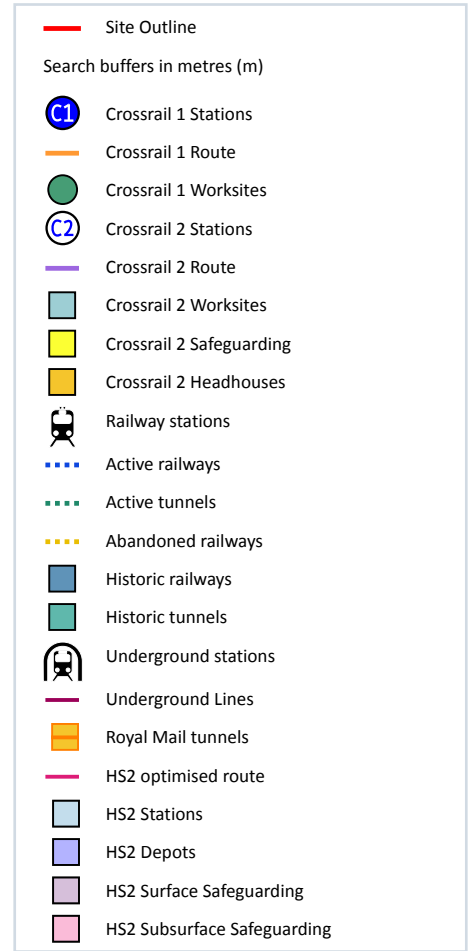
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

2

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

Features are displayed on the Railway infrastructure and projects map on **page 119**

Location	Description
46m NW	Abandoned
175m N	Razed

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.

Data providers

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

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HEAD OFFICE - GLASGOW

Wright Business Centre, 1 Lonmay Road, Glasgow G33 4EL | T: 0141 773 6262 | W: www.neo-environmental.co.uk

N. IRELAND OFFICE

Unit 3, The Courtyard Business Park
Gargorm Castle, Ballymena,
Northern Ireland
BT42 1HL
T: 0282 565 04 13
E: info@neo-environmental.co.uk

IRELAND OFFICE

Johnstown Business Centre
Johnstown House, Naas
Co. Kildare
T: 00 353 (0)45 844250
E: info@neo-environmental.ie
W: neo-environmental.ie

RUGBY OFFICE

Valiant Office Suites
Lumonics House, Valley Drive,
Swift Valley, Rugby,
Warwickshire, CV21 1TQ
T: 01788 297012
E: info@neo-environmental.co.uk

WARRINGTON OFFICE

Cinnamon House, Cinnamon Park
Crab Lane, Fearnhead
Warrington
Cheshire
T: 01925 661 716
E: info@neo-environmental.co.uk